Meeting of the Board of Directors

December 13, 2021 - 1:30 p.m.

THEA Headquarters
1104 E. Twiggs Street
First Floor Board Room
Tampa, FL 33602

For any person who wishes to address the Board, a sign-up sheet is provided at the Board Room entrance. Presentations are limited to three (3) minutes. When addressing the Board, please state your name and address and speak clearly into the microphone. If distributing backup materials, please furnish 10 copies for the Authority Board Members and staff. Any person who decides to appeal any decisions of the Authority with respect to any matter considered at its meeting or public hearing will need a record of the proceedings and, for such purpose, may need to hire a court reporter to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which an appeal is to be based.

I. Call to Order and Pledge of Allegiance

II. Public Input/ Public Presentations

III. Consent Agenda

A. Approval of the Minutes from the November 15, 2021, Board of Directors Meeting

B. Approval of Board Member Travel - TEAMFL Annual Meeting

C. Task Order for Ferrovial to acquire and install directional signs at 78th St on ramps from SR 60 - $61,000 (Present signs no longer meet MUTCD and are difficult to see).

D. Increase in Funding to Atkins Contract for CEI services for Aesthetic Lighting of Selmon Expressway Reversible Lanes - $93,000 (To cover costs for timeframe extension on Contractor's schedule to January 31, 2022.

E. Increase in Funding to Highway Safety Devices (HSD) on the Aesthetic Lighting REL Construction Project to acquire and install 280 additional light shields – Not to exceed $250,000 (Installed lights were found to be glaring to the traveling public due to curves and height, these shields resolve that issue with minimal impact to overall goal of lighting the REL).

IV. Discussion/Action Items

A. Operations & Maintenance – Bennett Barrow, Chairman – *Brian Pickard, Staff*

1. South Selmon Capacity Contamination Assessment for Soils and Bridges – *Brian Pickard, Staff*

Purpose: To procure the services of a consultant, expert in Level II contamination assessment of soils and bridges in preparation of developing the RFP for the upcoming South Selmon Capacity design/build project from Himes Ave. to Whiting St.

Funding: Capital Budget - $197,000

Action: Request the Board to authorize the Executive Director to sign a contract with APTIM Environmental & Infrastructure for a not to exceed amount of $197,000 utilizing established rates in the contract to determine actual final costs. Contract execution is subject to final review and approval of THEA General Counsel.

2. Design Consultant for Railroad Track Removal from North of Cumberland to North of Twiggs - Brian Pickard, Staff

Purpose: To procure the services of a Design Consultant to develop plans and specifications for a future construction contract to remove existing CSX railroad primary, side and/or spur tracks within THEA right-of-way that services the Ardent Mills facility in downtown Tampa. The project limits are from north of East Cumberland Avenue to north of Twiggs Street.

Funding: Capital Budget - $398,700

Action: Request the Board to authorize the Executive Director sign a Purchase Order with Kisinger Campo & Associates for $398,700 to provide design services for CSX Railroad Track Removal from Cumberland to north of Twiggs in THEA ROW.

3. Design Consultant to Evaluate Pavement and Develop Contract Documents to Remediate Pavement Issues Between Maydell and East of 78th St Ramps. –*Brian Pickard, Staff*

Purpose: To procure the services of a Design Consultant to investigate pavement issues and develop plans and specifications for a future construction contract to resolve the pavement issues. The project limits are the local THEA Expressway lanes in both directions from South Maydell Drive to east of 78th St Ramps.

Funding: Capital Budget $210,420

Action: Request the Board to authorize the Executive Director to sign a Task Order with Kisinger Campo & Associates for $210,420 to investigate pavement issues and develop contract documents for procurement of a Contractor to complete identified repairs to the Expressway local lanes.

V. Chairman – *Vincent Cassidy*

1. **Executive Director Recruitment**– *Amy Lettelleir, General Counsel*

VI. Executive Reports

A. Executive Director – *Joe Waggoner*

1. **Contract Renewal & Expiration Report**

B. General Counsel – *Amy Lettelleir*

C. Chairman – *Vincent Cassidy*

1. **Upcoming Meetings**

- Board Workshop – January 18, 2022
- Board Meeting – January 31, 2022

VII. Old Business

IX. New Business

X. Adjournment

Tampa-Hillsborough County Expressway Authority
Minutes of the November 15, 2021, Board Meeting
1104 E. Twiggs Street
Tampa, FL 33602

The Tampa-Hillsborough County Expressway Authority held a public meeting at 1:30 p.m. on November 15, 2021, at THEA Headquarters, 1104 E. Twiggs Street in Tampa Florida. The following were present:

BOARD:

Vincent Cassidy Chairman
Bennett Barrow, Vice Chairman
Daniel Alvarez, Secretary
John Weatherford, Member
FDOT D-7 Secretary David Gwynn, Member
Mayor Jane Castor, Member
Commissioner Ken Hagan, Member

STAFF:

Joe Waggoner
Amy Lettelleir
Sue Chrzan
Bob Frey
Brian Pickard
Jeff Seward
Rafael Hernandez
Max Artman
Julie Aure
Shari Callahan
Chaketa Mister
Trisha Floyd
Charlene Ponce
Anna Quinones
Krystina Steffen
Judith Villegas
Gary Holland

OTHERS:

Todd Josko, Ballard Partners
John Criss, Scalar Consulting Group
Jim Drapp, HNTB
Al Stewart, HNTB
Rick Patterson, Raymond James
Sally Dee, Playbook PR
Sarah Lesch, Playbook PR
Kelsie Collins, Playbook PR
Stephen Miller, Transcore
Matthew Sansbury, RBC Markets
Kim DeBosier, WGI
James Cook, JP Morgan
Brent Wilder, PFM
Omari Hand, BCC Engineering

I. Call to Order and Pledge of Allegiance

Chairman Cassidy called the meeting to order at 1:30 pm, followed by the Pledge of Allegiance and invocation.

II. Public Input/ Public Presentations

There were no public presentations.

III. Consent Agenda

The Chairman continued with the Consent Agenda and approvals.

A. Approval of the Minutes from the September 27, 2021, Board of Directors Meeting

B. Board Member Travel (Retroactive)

The Chairman asked for a motion to approve the consent items. Daniel Alvarez moved approval, seconded by Bennett Barrow. The motion carried unanimously.

IV. Discussion/Action Items

A. Operations & Maintenance – Bennett Barrow, Chairman – *Brian Pickard, Staff*

1. Mr. Brian Pickard presented a task to utilize GEC (HNTB) and their Small Business Enterprise subcontractor, Element, to undertake 3D LIDAR Survey of THEA Roadway System to prepare for future design and construction projects in 3D.

He noted funding of $989,000 would come from the capital budget. The requested action is for the Board to authorize the Executive Director to sign a Purchase Order with HNTB for 3D LIDAR Survey of THEA's roadway system and incorporate the information into THEA's GIS database.

The Chairman asked for a motion to approve. Daniel Alvarez moved approval, seconded by Bennett Barrow. The motion carried unanimously.

2. Mr. Pickard then reported on the bids received in response to a Request for Quotes for Access Control System – the software that controls the gates on the REL.

The request is for the board to:

a) Approve the Evaluation Committee's rankings of the firms for the Access Control System upgrade.

Rank	Firms	Total Score	Average Score
1	Teledyn FLIR	268	89.3
2	Kapsch TrafficCom USA	246	82.0

b) Authorize and direct staff to negotiate and execute a contract with the highest ranked firm. If negotiations are unsuccessful, staff shall

negotiate with the next highest ranked firm. Contract is subject to review and approval of THEA General Counsel.

The Chairman asked for a motion to approve. Daniel Alvarez moved approval, seconded by Bennett Barrow. The motion carried unanimously.

3. Next, Mr. Pickard presented a request to utilize GEC (HNTB) in assisting staff with design reviews, contractor procurement, Construction Engineering and Inspection (CEI) Team Procurement, and oversee their work during construction of Wrong-Way Driving countermeasures.

Funding of $85,000 will come from the capital budget, and the request is for the Board to authorize the Executive Director to sign a Purchase Order with HNTB for helping in design reviews, procurement of contractors and CEI, and to assist in overseeing the construction of Wrong-Way Countermeasures.

The Chairman asked for a motion to approve. Daniel Alvarez moved approval, seconded by Bennett Barrow. The motion carried unanimously.

4. Finally, Mr. Pickard discussed the need to procure the services of a Design Consultant to develop plans and specifications for construction contract to build Wrong-Way Driving Countermeasures at all Expressway exits east of Kennedy Blvd. He pointed out that the locations west of Kennedy Blvd. will be accomplished through the South Selmon Capacity Project. BCC Engineering, LLC selected previously (Board Meeting on May 24, 2021) for push-button contracts to provide Professional Engineering Services, will perform the services.

Funding of $256,500 will come from the capital budget, and the requested action is for Board to authorize the Executive Director sign a Purchase Order with BCC Engineering, LLC for $256,500 to provide Design services for Wrong-Way Driving Countermeasures at all Expressway exit ramps east of Kennedy Blvd.

The Chairman asked for a motion to approve. Bennett Barrow moved approval, seconded by John Weatherford.

Chairman Cassidy requested more detail on the countermeasures. Mr. Pickard explained that the intent is to have a three-phase approach with detections that are on mast arms/signposts. The first is an infrared detection that will identify a vehicle going in the wrong direction, a flashing sign will go up on the second detection letting the drive know

they are travelling in the wrong direction, and finally, the third detection will notify TMC, who will then notify law enforcement.

The Chairman called the vote and the motion carried unanimously.

5. Mr. Rafael Hernandez presented an item to provide for the removal, disposal and replacement of four power generators currently servicing toll revenue producing systems. Funding will come from the capital budget, and the requested action is for the Board to:

a) Approve selection of Zabatt Engine Services in the amount of $131,415 for the Tolling Equipment Power Generators.

Firm	Bid Amount
Zabatt Engine Services	$131,415
Eau Gallie Electric	$138,250
Generx Generators	$162,000

b) Authorize and direct staff to negotiate and execute a contract with the lowest responsible bid firm. If negotiations are unsuccessful, staff shall negotiate with the next lowest bid firm. Contract is subject to review and approval of THEA General Counsel.

The Chairman asked for a motion to approve. Bennett Barrow moved approval, seconded by John Weatherford. The motion carried unanimously.

Mr. Barrow asked about the life of the generators. Mr. Hernandez reported that industry standard is between five and seven years. These units are 11 years old. Because we do not use these units very often, we have been able to use them for longer than what the market proposes.

Mr. Barrow asked about the life of the new generators. Mr. Hernandez confirmed they were also five to seven years.

V. Chairman – *Vincent Cassidy*

1. Executive Director Recruitment Timeline Update – *Jeff Seward, Staff*

Mr. Seward provided an update on the Executive Director Recruitment timeline. THEA has contracted with Krauthamer & Associates (K&A) for recruitment services. The recruitment went live September 21 and will close November 19, 2021. Packages for qualified candidates will be provided to the Executive Recruitment Committee for review the weekend of November

20, 2021. Committee members will provide their short-list of candidates to K&A) by November 26, and interviews will occur December 3. The Executive Recruitment Committee's selected candidate(s) will be presented to the Board December 13.

Mr. Weatherford asked how many candidates have applied. Mr. Cassidy noted that he has been communicating with the recruiter weekly and the committee will be presented with eight to ten qualified candidates.

2. **Selection Committee Protocols –** *Amy E. Lettelleir, General Counsel*
General Counsel discussed the membership of the selection committee and provided an opportunity for members to join or remove themselves from the committee.

With no discussion, the membership will remain as is:

Vince Cassidy
Bennett Barrow
Daniel Alvarez
John Weatherford
David Gwynn

Ms. Lettelleir also requested a motion to reaffirm the selection of Mr. Cassidy as the Committee Chair.

Bennett Barrow moved approval, seconded by John Weatherford. The motion carried unanimously.

Ms. Lettelleir reiterated that the selection committee will be provided the names of candidates to be interviewed, adding that any candidate selected by at least three board members will be extended an invitation to be interviewed.

Bennett Barrow moved approval, seconded by John Weatherford.

The Chairman reiterated the intent of the motion – that if at least three committee members choose a candidate, that candidate will be interviewed.

The motion carried unanimously.

Ms. Lettelleir continued, noting that the selection committee will bring a ranking of the top three candidates to the entirety of the board for a vote.

Chairman Cassidy moved approval, seconded by John Weatherford.

The Chairman explained that, after the committee interviews between two and ten candidates the committee will present its ranking of the top three interviewed candidates to the Board for a vote.

There was a brief discussion about the number of candidates that would be presented to the full board. Ms. Lettelleir clarified that the motion is for the committee to bring three candidates to the Board.

Chairman Cassidy noted that the minimum should be three, but there could be more. Mr. Weatherford asked if a maximum should be set. It was agreed by consensus that no maximum was necessary.

The motion carried unanimously.

The Chairman asked General Counsel to include the three motions just passed in the packets that will be provided to the Selection Committee for reference. Ms. Lettelleir concurred.

VI. Staff Reports

A. Planning and Innovation – *Bob Frey*

Mr. Frey provided an update on transitioning the THEA CV Pilot to integrate with the FDOT I-4 FRAME, noting that THEA has partnered with FDOT on this project since 2015. FDOT has been working on their FRAME projects, which are connected projects to connect the system throughout the state. THEA will be working with FDOT on the proposed I-4 FRAME project by connecting the Selmon Expressway and our connected system through the CV Pilot, which creates a connected corridor from Downtown Tampa to Downtown Orlando, with multiple access points.

He reviewed a map of the project and pointed out that FDOT will be putting forth $1.9M for this project. THEA will match that using money from the capital budget as needed.

B. Operations & Maintenance – *Brian Pickard*

Mr. Pickard provided an update of ongoing projects, including the REL Pier Lighting Project, the Twiggs-Meridian to Nebraska, and the Wrong-Way Driving Initiative.

He reviewed the projects included to date in the Wrong-Way Driving Initiative, the budget, which is $2.1M, and the schedule.

John Weatherford asked how many annual wrong-way driver incidents we currently have and if there are projections on the impact of these projects.

Mr. Pickard noted that THEA does not have that data, largely because we don't yet have a system in place. He pointed out that he sees about three per day at Meridian, who are able to quickly turn around at the end of the median.

Secretary Gwynn mentioned that they document a lot of people who turn onto a ramp, the lights come on and they realize they are driving the wrong way and turn around. It is working and does make a difference.

John Weatherford asked if these projects would provide the data. Mr. Pickard responded in the affirmative, noting that THEA has gone one step further than the FDOT design by embedding red lights in the pavement.

C. Finance Update – *Jeff Seward*

Mr. Seward provided an update on finances, noting that THEA continues to see the trend we saw at the end of last fiscal year with revenues tracking above budget. We are underspending through September 30th based on projections, and investment income is up slightly due to additional cash in the bank.

We are tracking just under 10% of where we thought we would be on our revenue forecast. Unofficially, through October 31, we're tracking above 10% of where we thought we would be.

In January you will be receiving our FY2021 Year End Audit Report, delivery of the CAFR, and a recap on FY2021 Revenue and Spending for your review.

The Chairman asked how THEA is tracking versus 2019. Mr. Seward noted very close to pre-covid numbers.

John Weatherford asked if it is normal for the variance to be 10%. Mr. Seward pointed out that due to COVID and our adjustments to our traffic and revenue estimates, we are very conservative. If traffic continues as is, we will likely over projected revenue for the remainder of the year, unofficially.

The Chairman reminded the board that this was budgeted six months ago.

Mr. Waggoner predicted we will track ahead of 2019 revenue, due in part to the Selmon West Extension as an additional new source. The rest of our numbers are tracking very close to 2019.

D. Toll Operations – *Rafael Hernandez*

Mr. Hernandez gave an update on toll transaction counts for September 2021 (FY2022) compared to FY2019, as well as totals for the month. He noted that September counts are up by 2 points from 2020 and are down 1 point from FY2019. When the extension is included, we are up 12 points on average for this Fiscal Year and we are averaging 8 points ahead of FY2019.

He reported a 23.6% increase in total accounts year to year and a 35.7% increase in toll transactions year to year. The average daily traffic comparisons are also up with a 33% increase in the West Group and a 17.7% increase in the East Group + REL.

Mr. Hernandez reviewed the traffic counts for Selmon West Extension, reporting on the estimated counts versus the actual, which continue to exceed expectations.

Finally, he provided an update on the Selmon Discount Program for MacDill Air Force Base, noting that the program went live July 13 with 236 accounts. As of the end of October, we were at 475. He noted that MacDill Air Force Base is not yet at full capacity since COVID. He reviewed the operations approach, which is to optimize customer satisfaction. Toll Operations is using a proactive approach to ensure that customers who are not utilizing the program enough are notified so they don't lose money.

He discussed the estimated savings for active accounts. There was a discussion about how many active accounts are making the 40 trips. Mr. Waggoner reiterated that we are being proactive and contacting those customers who are not going to make the discount break even point to make sure they either pick up their usage or reconsider their participation in the program. Customers also have the option to suspend the program if they won't be using it, for example if they are on vacation.

John Weatherford asked how THEA is marketing the program. Mr. Hernandez explained that Ms. Chrzan and her team are reaching out to MacDill directly.

Mr. Chrzan noted that they are working with base command, have sent out emails and put notices in the newspaper – we are targeting MacDill people only.

Mr. Weatherford asked how many could potentially sign up for the program. Mr. Waggoner responded that our estimate is that there are enough potential participants to bring in just under $2M annually.

The mayor mentioned that she attended an event at MacDill and asked about this program. Everyone there was aware of it, and the only negative feedback she heard was that the number of trips be reduced or make the timeframe longer.

Mr. Waggoner noted that this is a pilot program, and it can be adjusted as we learn more about customer needs.

Finally, Mr. Hernandez introduced Mr. Gary Holland, the Toll Operations new Toll Systems Manager.

E. Communications Update – *Sue Chrzan*

Ms. Chrzan provided an update on THEA Communications. She reviewed the awards, including the most recent – Roads & Bridges Top 10. She mentioned an upcoming media blitz on the CV Pilot program and shared a marketing video.

She announced the FAV Summit and requested board members let her know if they are interested in attending.

VII. Executive Reports

A. Executive Director – *Joe Waggoner*

Mr. Waggoner gave a report on contract renewals – two contracts have been renewed. The first is the miscellaneous electrical design and development with Hall Engineering up for its first-year renewal. The second is the investment advisory services with Public Trust Advisors, up for its second-year renewal.

He then reported on contract closeouts. The first is the CEI who oversaw the construction of the Selmon West Extension. This project, after the initial first contract amendment, came in about $500K less than projected. The Construction Design/Build component of it was completed within the approved contract amount.

B. General Counsel – *Amy Lettelleir, Esq.*

Ms. Lettelleir reported on a recent visit to Tallahassee where she and the Executive Director met with 12 Representatives, two Senators, the Senate Transportation staff, House policy chief, the Governor's Appointment office, and the Assistant Chief of Staff. The goal was to let them know who we are, what our mission is and allow for questions. We discussed our current ability to do business in contiguous counties, our interlocal agreements with Pinellas and Pasco, and discussed that the legislation filed last year was to provide a roadmap to a board seat should a project with another county move forward.

She pointed out the one-page flier included in their board book, and that the key take away was how financially strong THEA is and that we are a tool in the tool box to address transportation needs in the region.

Next Ms. Lettelleir discussed Sustainability and ESG - Environmental, Social, and Governmental, which is a new element of credit analysis for rating agencies, noting that this is an opportunity for THEA. The board has already approved going out for the Greenway Enhancement project and staff is developing an RFP that will request the respondents to include suggestions for the greenway, such as xeriscape, use of recycled materials, and solar power. This will provide us with

opportunities from our respondents to address sustainability and be part of the efforts.

The Chairman asked for clarification on whether future ratings may include sustainability. She advised that it is already in there. THEA was evaluated on it when we did our re-funding.

Daniel Alvarez asked about the rating system. Ms. Lettelleir explained that it is notching positive/negative so positive or neutral is good.

C. Chairman – *Vincent Cassidy*

Chairman Cassidy announced upcoming meetings:

- THEA Board Meeting – December 13, 2021
- Board Workshop – January 18, 2022

Mr. Waggoner noted the workshop would include the progression schedule of the South Selmon project and how it will be funded. The other concept we will discuss is Whiting Street, which is in the PD&E phase.

The Chairman asked that Mr. Waggoner and Ms. Lettelleir meet with each board member to brief them on the agenda prior to the workshop.

VIII. Old Business

No old business

IX. New Business

No new business.

X. Adjournment

With no further discussion, the meeting adjourned at 2:30.

Request For Travel

Date: December 9, 2021

Employee Name: Vincent Cassidy

Destination (city, state): Tampa, FL

Date of Departure: January 26, 2022

Date of Return: January 28, 2022

Name of Event: TEAMFL Annual Meeting - Orlando, FL

Event Type: Meeting

- Professional Development
- CLE
- Seminar
- Workshop
- Other

Request Should Be Submitted At Least 5 Days Prior To Departure

Registration Fees						$
Meals	Breakfast	2 Days @	$ 6.00	=	$	12.00
	Lunch	2 Days @	$ 11.00	=	$	22.00
	Dinner	2 Days @	$ 19.00	=	$	38.00
Lodging		2 Days @	$ 150	=	$	300.00
OR						
Per Diem				=	$	40.00
Transportation						75 (Parking)
Airfare					$	
Baggage Fee					$	
Car Rental		Days @	$	=	$	0.00
Shuttle/Taxi		Days @	$ 0	=	$	100.00
Mileage	180		0.56	=	$	100.00
			Total Estimated Travel Expense		$	687.00

Statement of Approvals:

The supervisor and employee, acting in the best interest of THCEA, agree that the Event will directly enhance the employee's ability to perform his/her current duties/responsibilities and/or qualify for or maintain professional certifications related to employee's current position and related license requirements.

Employee's Signature

Director of Finance *Date*

Supervisor *Date*

Executive Director *Date*

Accounting Use Only

For College or University Course Work Reimbursement

Amount Approved *Date*

Balance - Fiscal Year

Notes:

Series 200, Sec. 210.15 Emp Policies

NOTE: The form must be completed prior to making travel arrangements or registrations. Employees are responsible for payment of unapproved registrations/travel expenses.

November 24, 2021

Tampa-Hillsborough Expressway Authority

ATTN: Brian W. Pickard, Director of Expressway Operations

1104 East Twiggs Street, Suite 300

Tampa, Florida 33602

RE: C/O Proposal – 78th Street Signage

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Brian:

It is our pleasure to submit this proposal for the 78th Street Signage Panels at two locations along SR. 60 at the 78th St entrance ramp to the Selmon Expressway.

Work will consist of Furnish and Install Two Tolling Signs and relocate three exiting single post signs with new footers and hardware. Locations pre-determined by the Expressway Authority. Work will be done by sub-contractor. Does not include getting any permits if required to perform the work.

The work will be accomplished per plan sheets provided by THEA. Includes fabrication of new sign panels, post and footers set at a F/I lump sum rate of $ 60,965.50

Please call me at 813-250-3616 with any questions or concerns.

Thanks,

Scott Chase

Project Manager

SC/

13521 Ponce De Leon Blvd.
Brooksville Fla 34601
Phone 352-544-2723
Fax 352-797-0476

Proposal

Date: 11/16/21

Attn: Scott Chase
Ferrovial
210 S. Brevard Ave
Tampa, FL 33606
813-250-3616

Job Name: Signs
Location: SR 60 & 78th St.

		Quanity	Unit	Price	Total
1	Supply & install 12' x 16' Highway Logo Guide signs. Each sign includes 2 - W8X24 bases and beams (3) Single post	2	EA	24,283.34	$48,566.68
2	Relocate existing Single post signs with new bases and hardware as required	3	EA	2,285.50	$6,856.50

Estimated Total Work *$55,423.18*

Special Notes and Provisions

1 Permits by others.
2 Price does not include bond
3 Price includes__ mobilizations.
4 TIP proposal will be attached to any signed contract as Exhibit "A".
5 All signed proposal must be returned to the office 5 business days prior to scheduling work.

according to standard practices. Any alterations of deviations from the above specifications involving extra costs will be

TIP, LLC. is authorized to perform the above stated work for the above quoted price. ALL SPECIAL PROVISIONS have been reviewed and agreed with.

Owner / Contractor_____ **Date:**_____

Turtle Infrastructure Partners, LLC
Representative _____ **Date**_____

Proposal subject to cancellation if not accepted within 10 days

Additional Labor for Project Extension

THEA
Selmon REL Aesthetic Lighting
JW Hunter PE 12-6-21

CEI Staffing Proposal					**2021**
Position	Name	Firm		Oct	Nov
				14	15
SR. PE	JW Hunter, PE	Atkins			
Project Administrator	Robert (Bob) Gates	Atkins			
CSS	Karen Sauers	Keystone			
Secr. / RCS	Cindy Linscott	Atkins			
Sr. Inspector	Barry Schultz	Atkins			
Inspector	Ian Sauers	Atkins			
Inspector Aide		Atkins			
Steel Fabrication Inspector		Bureauveritas			

2022

Dec	Man	Man	Jan	Feb	Mar	Apr	Man	Man
16	Months	Hours	17	18	19	20	Months	Hours
0.1	0.05	8.3	0.1	0.1			0.2	24.8
0.5	0.25	41.3	0.5	0.5			1.0	165.0
0.5	0.25	41.3	0.5	0.5			1.0	165.0
0.3	0.13	20.6	0.3				0.3	41.3
1.0	0.50	82.5	1.0				1.0	165.0
1.0	0.50	82.5	1.0				1.0	165.0
	0.0	0.0					0.0	0.0
	0.0	0.0					0.0	0.0

CEI TOTAL		Loaded rate	Total Cost	Overtime (Y/N)	OT %			Total Cost
Man Months	Man Hours							
0.2	33.0	$ 188.93	$ 6,234.69	N		0		$6,234.69
1.3	206.3	$ 140.38	$ 28,953.38	N		0		$28,953.38
1.3	206.3	$ 86.49	$ 17,838.56	N		0		$17,838.56
0.4	61.9	$ 62.99	$ 3,897.51	N		0		$3,897.51
1.5	247.5	$ 82.07	$ 20,312.33	Y	5%	$	1,015.62	$21,327.94
1.5	247.5	$ 56.55	$ 13,996.13	Y	5%	$	699.81	$14,695.93
0.0	0.0	$ 51.17	$ -	Y	5%	$	-	$0.00
0.0	0.0	$ 51.17	$ -	N		0		$0.00
6.1	1002.4		$ 91,232.58			$	1,715.42	**$92,948.01**

Highway Safety Devices

6480 Harney Rd
Tampa FL 33610
Phone: (813) 759-1559

December 7th, 2021

Bob Gates
Construction Manager
Atkins
1104 East Twiggs St., Ste 300
Tampa FL 33602

RE: Price to Furnish & Install 280 Additional Luminaire Shields

Dear Mr. Gates:

Please find the attached cost detail to furnish and install an additional 280 Luminaire Shields.

Furnish and Install Luminaire Shields, Qty 280 EA at $611.67/EA = $171,267.60

- Pricing above includes all material, labor, equipment, and maintenance of traffic cost required for this work.
- This unit price proposal is submitted for acceptance by December 10th, 2021. Highway Safety Devices, Inc. will require written acceptance of this proposal within this time frame to secure our material prices. Otherwise, the prices in this proposal will be subject to escalation.
- When request was made for a proposal to furnish and install 280 additional shields, a former production rate of 20 shield per night was referenced. This production rate was achieved by assigning 6 men to this work for the majority of the time. Additionally, crews worked 10 hours per night, 5 nights per week. These overtime costs were taken on by HSD at our own discretion to expedite the work so that resources could return to other contractor work on this same project. We cannot guarantee we will have these same resources available in the future and we are not permitted to charge overtime for additional contract work. The attached cost detail sheet is based upon a standard 8 hours per shift and a 40-hour work week to avoid overtime cost to the owner. This proposal is based upon a production rate of 16 units per night for one crew with two bucket trucks.
- This proposal is being submitted on Tuesday December 7, 2021. Assuming the proposal is accepted, and the material is released by Friday December 10th, HSD will require additional contract time through March 19th, 2022. That is 8 weeks to manufacture and ship the first 140 units, an additional 4 weeks to complete and ship the remaining 140 units, and then another 2 weeks to install the final 140 units. Installation of the first 140 units will be done concurrently with the manufacturing of the second 140 units.

Please contact me at your earliest convenience if any additional information is required.

Sincerely,

Jonathan Hart, E.I

HIGHWAY SAFETY DEVICES, INC.
6480 Harney Road
Tampa, Florida 33610
(813) 759-1559 Fax: (813) 757-0924

Financial Project No: 12/7/2021

Bid Item :	WO-10-21
HSD # :	1839
Quantity	280
Unit Of Measure:	EA
Description:	Furnish and Install Light Shields, 280 EA. One 3 man crew, with 1 crew truck and 2 bucket trucks. 8 hrs per night, 16 shields per night. MOT crew is 9 hrs per night to cover added time to set up and take down MOT before and after so that work crews can get in a full night.

LABOR	Man Hours	Uts	Labor Rate	Extension
Supervision	35	MH	$42.00	$1,470.00
Foreman	140	MH	$30.00	$4,200.00
Labor - Skilled	140	MH	$17.00	$2,380.00
Labor - Unskilled	140	MH	$14.00	$1,960.00
MOT Foreman	158	MH	$30.00	$4,740.00
MOT Labor - Unskilled	158	MH	$14.00	$2,212.00
	Labor Burden		**44.00%**	$7,463.28
	Allowable Markup		**17.50%**	$4,274.42
			Total Labor	$28,699.70

MATERIAL				
Luminaire Shields Galvanized and Painted w/ HDWR	280	EA	$230.00	$64,400.00
MOT Materials - Signs, Flags, Cones, Etc.	18	DY	$47.75	$859.50
				$0.00
				$0.00
				$0.00
				$0.00
	Tax		**7.50%**	$4,894.46
	Allowable Markup		**17.50%**	$12,276.94
			Total Material	$82,430.91

SUBCONTRACTOR (Name of Sub/Description of Work)				
Advanced Warning Signs & PCMS	78	DY	$32.69	$2,549.82
78 calendard days from 1/1/2022 to 3/20/22				$0.00
Traffic Control Officers 9 hrs per night	158	HR	$70.00	$11,025.00
(8 hrs/night plus .5hr travel time each way, 8+2*0.5=9)				$0.00
		LF		$0.00
		LF		$0.00
		LF		$0.00
	< $50,000.00		**10.00%**	$1,357.48
	> $50,000.00		**5.00%**	$0.00
			Total Subcontractor	$14,932.30

EQUIPMENT	HOURS		RATE	
Crew Truck	140	HR	$20.81	$2,913.40
Bucket Truck	280	HR	$36.22	$10,141.60
MOT Crew Truck	158	HR	$20.81	$3,287.98
Arrow Board	158	HR	$2.24	$353.92
		HR		$0.00
	Allowable Markup		**17.50%**	$2,921.96
			Total Equipment	$19,618.86

TOTAL COST				
LABOR :				$28,699.70
MATERIAL :				$82,430.91
SUBCONTRACTOR:				$14,932.30
EQUIPMENT :				$19,618.86
INSURANCE & BOND (IF REQUIRED)			**1.50%**	$2,185.23
INDIRECT COST/ CALENDAR DAY	78	DY	$300.00	$23,400.00
		Total Cost		171,267.00
		Unit Cost		**611.67**

QUOTATION

		CMW Ref #:	Q# 28768
Attn:	Jonathan Hart	Date:	12/7/2021
Company:	Highway Safety Devices	Phone:	813-650-2240
Customer Ref #:	280 ct Luminaire Shades	Fax:	813-737-1820
		Email:	Jqvarnum@cmw.cc

Proposal firm for 30 days There after a review for pricing and schedule shall be made.

Delivery : **Please see below** **Quote Type:** **Firm**

Item	QTY	Description	Unit Price	Item Total
	280	Jonathan, up- dated price each set (1 pc of 16 ga plate at 18" x 48" , 1 bent angle at 3 x 4 x 3/16" x 24" long, (2) 3" square u-bolts, delivered w 6 small fasteners with nuts and NYLON washers) x 280 ct, delivered .	$ 230.00	$ 64,400.00
		All HDGalv'ed, all powder coated including the u-bolt legs for 3", nuts and flats for U- bolts galvanize only.		
		•REF Customer supplied drawing • Materials will be ordered after the receipt of an approved PO. • Excludes detailed engineering and design • Excludes NDE • Excludes State tax • Excludes services not specified in this proposal. • Offloading services at the destination to be provided by others.		
Taxes		No Florida State Sales or use tax included		
Terms		Net 30 days		
Freight		DAP, Highway Safety Devices, Tampa Fl.		
		CMW has improved our incoming purchase order receipt and distribution system in order to simplify the processing and ensure the timely response to all incoming customer awards. For awards of projects to CMW please use the method below. Email PO To: CUST_PO@CMW.CC Please identify your purchase order document with the CMW Quote Number. You may also just call me at above number if we can be of service. Thank you for your inquiry, Quintin Varnum		
		Quotation Total		$ 64,400.00

" At CMW … Safety is our Priority and Quality is our Standard"

APTIM
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Tampa, Florida 33619
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Fax: +1 813 626 1663
www.aptim.com

November 21, 2021

Mr. James Drapp
Vice President, HNTB Corporation
Tampa Hillsborough Expressway Authority (THEA)
One Tampa City Center
201 N. Franklin Street, Suite 1200
Tampa, Florida 33602

Re: Scope of Services and Cost Proposal for
Level II Asbestos Containing Material (ACM), Metals Based Paint (MBP) Coatings Surveys
Twenty-Six (26) Bridges along
South Selmon Expressway (SR 618) Widening from Himes Avenue to Whiting Street
Tampa, Hillsborough County, Florida
THEA Project ID: HI-0112
THEA Contract Number O-01219

Dear Mr. Drapp:

Aptim Environmental & Infrastructure, LLC (APTIM) is pleased to present this scope of work and cost proposal to the Tampa Hillsborough Expressway Authority (THEA) for Level II Asbestos Containing Material (ACM) and Metals Based Paint (MBP) Coatings Surveys for twenty-six (26) bridges along the Selmon Expressway [State Road (SR) 618] widening project from Himes Ave to Whiting Street in Tampa, Hillsborough County, Florida.

To assist the THEA in planning for this project, APTIM will survey the following twenty-six (26) bridges for ACM and/or MBP coatings prior to repair, replace, widening improvements, and/or demolition in accordance with Environmental Protection Agency (EPA) requirements for NESHAP notification, and other pertinent state and federal requirements:

Bridge No.	Bridge Name	Design	Survey Plan
100308	SR618 SELMON WB over HIMES AVENUE	Steel girder/beam w/ protective coating Reinforced Concrete Deck	ACM and MBP Surveys
100309	SR618 SELMON EB over HIMES AVENUE		ACM and MBP Surveys
100310	SR618 SELMON WB over EUCLID AVENUE	Prestressed Concrete Girder/Beam Reinforced concrete deck	ACM Survey
100311	SR618 SELMON EB over EUCLID AVENUE		ACM Survey
100312	SR618 SELMN&RMP WB over EL PRADO BLVD & RR	Prestressed Concrete Girder/Beam Reinforced concrete deck	ACM Survey
100313	SR618 SELMON EB over EL PRADO BLVD		ACM Survey
100314	SR618 SELMON WB over MACDILL&BAY TO BAY & RR	Steel girder/beam w/ protective coating Prestressed Concrete Girder/ Beam Reinforced Concrete Deck	ACM and MBP Surveys
100315	SR618 SELMON EB over MACDILL & BAY TO BAY BLV		ACM and MBP Surveys

100316	SR618 SELMON WB over MISSISSIPPI AVENUE	Prestressed Concrete Girder/Beam Reinforced concrete deck	ACM Survey
100317	SR618 SELMON EB over MISSISSIPPI AVENUE		ACM Survey
100318	SR618 SELMON WB over WATROUS AND HOWARD AVES	Prestressed Concrete Girder/Beam Reinforced concrete deck	ACM Survey
100319	SR618 SELMON EB over WATROUS AND HOWARD AVES	Steel girder/beam w/ protective coating Reinforced Concrete Deck	ACM and MBP Surveys
100320	SR618 SELMON WB over MORRISON AVENUE	Prestressed Concrete Girder/Beam Reinforced concrete deck	ACM Survey
100321	SR618 SELMON EB over MORRISON AVENUE		ACM Survey
100322	SR618 SELMON WB over SWANN AVENUE	Prestressed Concrete Girder/Beam Reinforced concrete deck	ACM Survey
100323	SR618 SELMON EB over SWANN AVENUE		ACM Survey
100324	SR618 SELMON WB over PLATT STREET	Prestressed Concrete Girder/Beam Reinforced concrete deck	ACM Survey
100325	SR618 SELMON EB over PLATT STREET		ACM Survey
100326	SR618 SELMON WB over WILLOW AVENUE	Prestressed Concrete Girder/Beam Reinforced concrete deck	ACM Survey
100327	SR618 SELMON EB over WILLOW AVENUE		ACM Survey
100328	SR618 SELMON WB over SOUTH BOULEVARD	Prestressed Concrete Girder/Beam Reinforced concrete deck	ACM Survey
100329	SR618 SELMON EB over SOUTH BOULEVARD		ACM Survey
100330	SR618 SELMON EB over HYDE PARK & PLANT AVE	Prestressed Concrete Girder/Beam Reinforced concrete deck	ACM Survey
100331	SR618 SELMON EB over HYDE PARK & PLANT AVE		ACM Survey
100332	SR-618 EB & RAMPS over HILLS RVR & DOWNTOWN TPA	Steel girder/beam w/ protective coating Prestressed Concrete Girder/ Beam Reinforced Concrete Deck	ACM and MBP Surveys
100333	SR618 WB & RAMPS over HILLS RVR & DOWNTOWN TPA		ACM and MBP Surveys

These bridge survey tasks include the following:

- Prepare and execute a site-specific health and safety plan to ensure a safe working environment. Provide inspectors with the appropriate personal protective equipment (PPE), safety equipment and personnel as needed during the performance of field survey tasks.

- Evaluate the need for and provide maintenance of traffic as needed. Evaluate the need for specialized equipment to fully access all locations to determine where original materials remain and where newer replacement materials have been installed. Coordinate with the THEA as necessary to fully access the areas to be surveyed, including necessary lane closures and night work to accommodate peak traffic flow hours.

- Perform ACM surveys on all twenty-six (26) bridges. Additionally, perform MBP coating surveys on the seven (7) bridges with steel girder/beam structures with protective coatings. The field survey tasks are estimated to take up to three (3) weeks with two (2) inspectors, with possibility some night work to minimize impacts on traffic.

- Perform the ACM surveys on the twenty-six bridges (26) with certified AHERA Asbestos Inspectors. For each bridge, collect up to twelve (12) homogeneous areas (HA) with 3 primary samples per HA, and four (4) quality control asbestos samples using wet methods and appropriate PPE as necessary. Submit the samples to a National Voluntary Laboratory Accreditation Program (NVLAP)-certified laboratory for analyses by polarized light microscopy utilizing dispersion staining.

- For each of the seven (7) bridges with steel girder/beam structures with protective coatings requiring a MBP coating survey, collect up to four (4) samples per bridge following the Florida Method of Test for Sampling of Structural Steel Existing Coatings Systems (FM 5-564). Submit the samples to a certified laboratory for analyses of RCRA 8 metals. Analyze up to two (2) samples by Toxicity Characteristics Leaching Procedures (TCLP) if needed to determine potential for hazardous materials disposal.

- Document each of the twenty-six (26) ACM and seven (7) MBP bridge surveys in standalone reports, including recommendations to THEA for required remediation activities to be completed before or during construction. Provide approximate removal and disposal cost for contaminated materials and graphically show where contaminated material is located in sufficient detail to facilitate future removal costs. If ACM or potential contaminated paint or other materials are present, prepare an abbreviated Operation and Maintenance (O&M) Plan for the materials. Prepare the ACM survey report in the State of Florida Building Asbestos Survey Procedures and Specifications format with all supporting documentation. Bridge-specific information that is not covered on the state forms should be incorporated into the text of the report or provided on a separate form.

- Submit one (1) draft report electronically for each of the twenty-six (26) ACM and seven (7) MBP bridge surveys for review by the THEA. Upon approval, submit one (1) FINAL electronic copy of each of the reports.

APTIM proposes to complete all of the described services upon project or contract completion, whichever occurs first, following receipt of authorization by the THEA. The total maximum limiting amount to complete these services is **$100,101.50.** A description of assigned costs is provided as **Attachment A**. The services will be provided in accordance with the terms and conditions of Contract No. O-01219 between APTIM Environmental & Infrastructure, LLC and the THEA dated May 7, 2019.

APTIM appreciates the opportunity to provide these assessment services on behalf of the THEA. Should you have any questions or need additional information, please contact me at (813) 612-3660.

Sincerely,

Aptim Environmental & Infrastructure, LLC

Kristin M. Dobbins, P.E.
Contract Manager

Attachments Attachment A—Cost Proposal

pc: Deb Ramey, APTIM, Tampa, FL
APTIM Project File TBD

ATTACHMENT A

Cost Proposal

Attachment A

Cost Proposal - Maximum Limiting Amount
Level II Asbestos Containing Material (ACM), Metals Based Paint (MBP) Coatings Surveys
Twenty-Six (26) Bridges along
South Selmon Expressway (SR 618) Widening from Himes Avenue to Whiting Street
Tampa, Hillsborough County, Florida
THEA Project ID: HI-0112
THEA Contract Number O-01219

Category	Quantity	Unity	Unit Rate ($)	Total ($)
Personnel				
Project Manager (including MOT and lane closure coordination)	40	hours	125.00	5,000.00
Licensed Asbestos Consultant (26 ACM +7 MPB reports x appx. 2.5 hrs/rep	83	hours	100.00	8,300.00
Senior Engineer/Scientist (26 ACM reports +7 MPB reports x 4 hrs/report)	132	hours	95.00	12,540.00
Asbestos Inspector (2 inspectors x 3 weeks field)	240	hours	70.00	16,800.00
Equipment operator (attenuator truck/man-lift x 3 weeks)	120	hours	50.00	6,000.00
Security Personnel with vehicle (police for lane closure/MOT/night work)	60	hours	60.00	3,600.00
Safety Engineer	4	hours	60.00	240.00
Technical Illustrator (26 ACM reports +7 MPB reports x 1 hrs/report)	33	hours	60.00	1,980.00
Clerical	20	hours	55.00	1,100.00
Field Clerk/Typist (26 ACM reports +7 MPB reports x 2 hrs/report)	66	hours	55.00	3,630.00
Subtotal – Personnel				**$59,190.00**
Travel				
Per Diem (1 inspector x 3 weeks)	15	days	80.00	1,200.00
Mileage	500	miles	0.445	222.50
Subtotal – Travel				**$1,422.50**
Reproduction				
Letter Size Paper (8-1/2" x 11")	3,000	sheets	0.15	450.00
B Size Paper (11" x 17")	500	sheets	0.35	175.00
Subtotal – Reproduction				**$625.00**
Equipment				
Truck, 4 wheel drive	3	weeks	280.00	840.00
Automobile (Security personnel)	3	weeks	280.00	840.00
85-foot man-lift (Attenuator truck for MOT) (x 3 for night work)	9	weeks	1,450.00	13,050.00
85-foot man-lift	3	weeks	1,450.00	4,350.00
Light-tow, Towable	3	weeks	164.00	492.00
Barricades - Type III (subcontracted MOT equipment x 3 weeks)	300	weeks	4.00	1,200.00
Hand Auger (power drill/ hammer/chisel x 2 for sampling)	6	weeks	60.00	360.00
Portable Eye Wash	3	weeks	40.00	120.00
Communication Devices / Portable Radio (2 x 3 weeks)	6	weeks	80.00	480.00
Cooler (Water & sample x 3 weeks)	6	weeks	20.00	120.00
Subtotal – Equipment				**$21,852.00**

Attachment A

Cost Proposal - Maximum Limiting Amount
Level II Asbestos Containing Material (ACM), Metals Based Paint (MBP) Coatings Surveys
Twenty-Six (26) Bridges along
South Selmon Expressway (SR 618) Widening from Himes Avenue to Whiting Street
Tampa, Hillsborough County, Florida
THEA Project ID: HI-0112
THEA Contract Number O-01219

Category	Quantity	Unity	Unit Rate ($)	Total ($)
Expendables and Miscellaneous (E&M)				
Duct Tape	3	roll	7.00	21.00
Dry ice (wet ice)	50	lb	5.00	250.00
Dry ice (water - 16 oz bottles)	50	lb	5.00	250.00
Safety Goggles	2	pairs	5.00	10.00
Gloves, Sample (125 pairs per box)	500	pairs	0.75	375.00
Sample Shipment Cans (1 gal size) (sample bags)	50	each	2.00	100.00
Trash Bags	3	box	10.00	30.00
Subtotal – E&M				**$1,036.00**
Analytical				
Presumed Asbestos Containing Suspect Material - Rapid Turnaround				
Bulk Sample (PLM Analyses) (12 HAs x 3 samples/HA + 4 QA/QC) x 26 bric	1040	each	11.00	11,440.00
Solids (Paint) - Rapid Turnaround				
8 RCRA Metals (4 samples x 7 bridges)	28	each	90.00	2,520.00
TCLP Extraction (8 RCRA Metals x 7 samples)	56	each	36.00	2,016.00
Subtotal – Analytical				**$15,976.00**
Total Maximum Limiting Estimate				**$100,101.50**

APTIM
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November 20, 2021

APTIM Project No. TBD

Mr. Branan Anderson, PE
Senior Project Engineer/ Project Manager
Kisinger Campo & Associates (KCA)
201 N. Franklin Street, Suite 400
Tampa, Florida 33602

Re: Scope of Services for
Environmental Contamination Assessment
Tampa Hillsborough Expressway Authority (THEA)
CSX Arden Mills Track Removal Project
Tampa, Hillsborough County, Florida
THEA Project No: TBD
Contract Number: TBD

Dear Mr. Anderson:

Aptim Environmental & Infrastructure, LLC (APTIM) is pleased to present this scope of work and cost proposal for an environmental Contamination Assessment in support of Kisinger Campo & Associates (KCA)'s proposal for the Tampa Hillsborough Expressway Authority (THEA) CSX Arden Mills Track Removal project in Hillsborough County, Florida.

The Tampa Hillsborough Expressway Authority (THEA) requires Professional Services to prepare construction plans for the removal of all existing CSX Railroad primary, side and/or spur tracks within THEA right-of-way that services the Arden Mills facility in downtown Tampa. The project limits are from north of East Cumberland Avenue to north of Twiggs Street along Meridian Avenue in downtown Tampa. KCA, as the primary bidding CONSULTANT for THEA on the aforementioned project, requested APTIM provide a scope and cost estimate to conduct all necessary environmental investigations and analysis to identify and depict in the plans all hazardous material locations within the project limits.

Based on a review of concept plans and general scope of services provided by KCA, a desktop review of regulated sites in the project area, and projects of similar nature, APTIM recommends the following contamination assessment tasks to identify, evaluate, and prepare recommendations for disposition of potential hazardous waste and pollutants associated with the proposed CSX railroad track removal project:

- Prepare a site-specific health and safety plan to ensure a safe working environment. Provide 40-hr Occupational Safety and Health Administration OSHA)-trained personnel for performance of all field activities.
- Request utility mark-outs (i.e., setbacks, stations, and vertical and horizontal elevations) from the prime contractor or arrange with a utility locator service to identify and adequately mark all underground utilities in the areas where subsurface investigation will occur, when necessary.

- Using hand augers, advance up to forty (40) borings up to 2 ft deep for soil screening and sample collection at approximately 100 ft spacing along the railroad tracks to be removed. If railroad ballas material lies within the boring area, the boring depth will begin at the depth at which the soil is reached. The approximate locations of the samples to be collected along the subject area are shown on **Figure 1**. The locations of these borings may be adjusted during the field work by the project scientist/geologist as needed based on site conditions and/or observed visual signs of potential contamination.

- Properly decontaminate tools and equipment before use and between sampling locations in accordance with the FDEP-SOP-01/001.

- Screen the soil at each boring location at 12-inch (in) depth intervals up to 2 ft deep with an organic vapor analyzer/photovac flame-ionization (OVA/PID) detector in accordance with Rule 62-770.200(12), Florida Administrative Code. Record the net resultant vapor measurement as the hydrocarbon vapor concentration.

- Collect up to forty (40) grab soil samples for laboratory analyses at each boring location at 0 to 6-in depth interval. Submit the soil samples to an accredited laboratory for Table D Used Oil Group analyses as listed in Rule 62-780.900, F.A.C. including Total Recoverable Petroleum Hydrocarbons (TRPH) by FL-PRO, Priority Pollutant (PP) Semi-Volatile Organic Compounds (SVOCs) by Environmental Protection Agency (EPA) Method 8270/8310, PP Volatile Organic Compounds (VOCs) by EPA 8260; 4 Resource Conservation and Recovery Act (RCRA) Metals (arsenic, cadmium, chromium, lead) by EPA Methods 6010/6020; polychlorinated biphenyls (PCBs) by EPA 8082; and Organochlorine (OC) Pesticides by EPA Method 8081B.

- The field sampling work is estimated to be performed in up to four (4) days with two personnel. Scope duration assumes existing ballast may require additional efforts to advance the borings by hand auger.

- As requested by KCA, review construction plans and previous contamination assessments for the referenced project. Provide recommendations for additional evaluations, investigations, or remediation activities to be completed prior to or during construction, should they be necessary.

- Submit an Environmental Contamination Assessment Report to KCA. The report will be technically concise and will include data collected, analyses, graphics, tables, and appendices to completely illustrate the assessment effort. Recommendations for additional evaluations, investigations, and/or disposal and remediation activities as a result of this Contamination Assessment to be completed prior to or during construction will also be provided. One draft report and upon approval, one (1) final hard copy and one (1) final electronic copy of the report will be submitted to KCA.

Per our phone conversation on November 19, 2021, the primary consultant (KCA) will provide the necessary site access agreements and permits for APTIM to be able to perform the above-described contamination assessment services.

Schedule and Cost

The total lump-sum amount to complete the above-described contamination assessment services is **$37,727.25**. These costs are a best estimate based on the available information at this time. In the event there is a change in scope, APTIM shall immediately notify KCA with an explanation and estimation of additional costs, if any. APTIM will not exceed the authorized lump sum contract amount without prior approval from KCA. A description of assigned costs and unit rates is provided as **Attachment B**.

All tasks outlined as noted above will be completed within 60 days of receipt of authorization to proceed. The services will be provided in accordance with the terms and conditions of a mutually agreeable agreement between APTIM and KCA.

APTIM appreciates the opportunity to provide these assessment services on behalf of KCA. Should you have any questions or need additional information, please contact me at (813) 612-3660.

Sincerely,
APTIM Environmental & Infrastructure, Inc.

Kristin M. Dobbins, P.E.
Contract Manager

Attachments: Attachment A – Figure 1: Contamination Assessment Sampling Plan
Attachment B – Cost Proposal

pc: APTIM Project File TBD

ATTACHMENT A

FIGURE 1 Contamination Assessment Sampling Plan

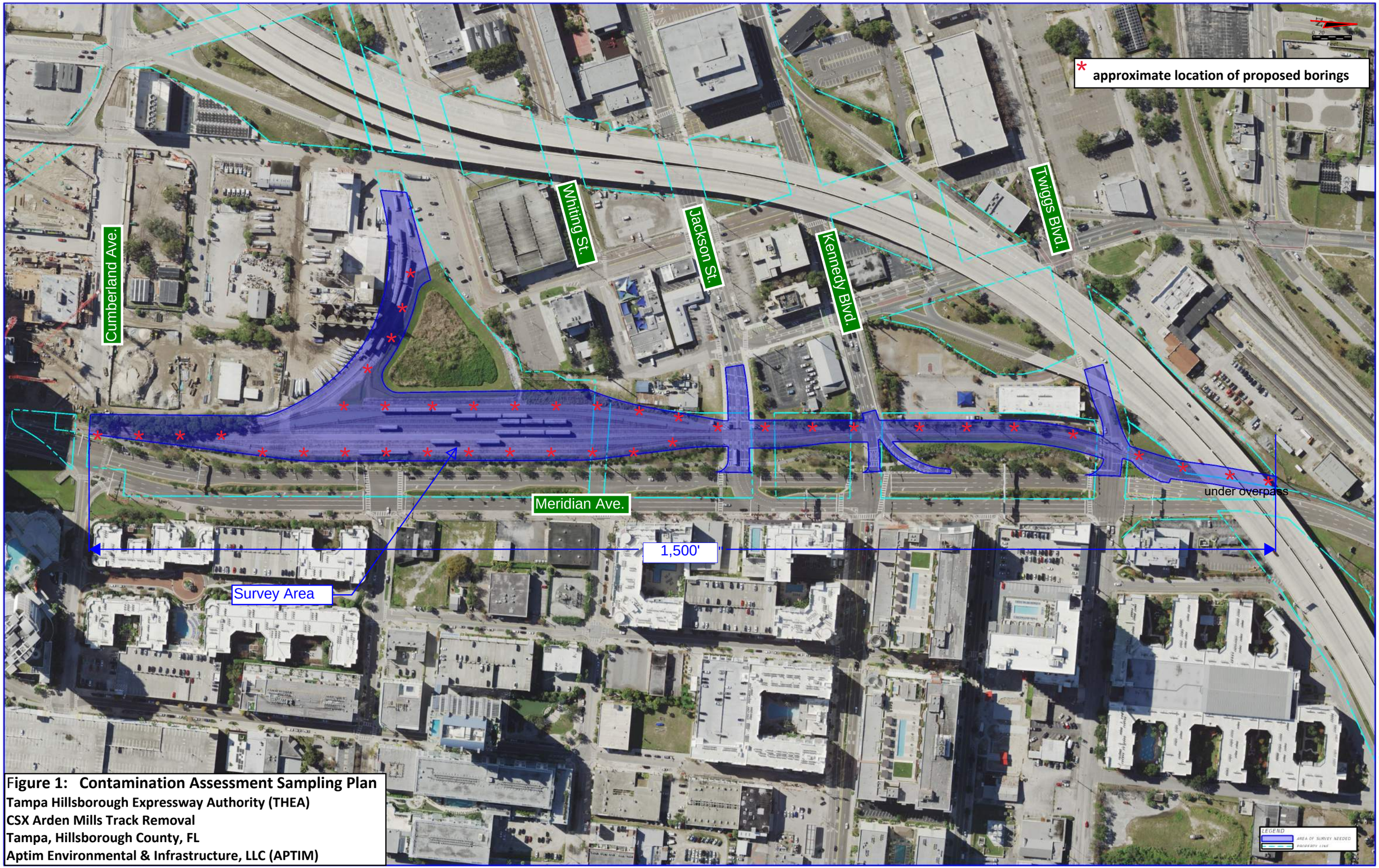

Figure 1: Contamination Assessment Sampling Plan
Tampa Hillsborough Expressway Authority (THEA)
CSX Arden Mills Track Removal
Tampa, Hillsborough County, FL
Aptim Environmental & Infrastructure, LLC (APTIM)

ATTACHMENT B

Cost Proposal

ATTACHMENT B

APTIM Cost Proposal - Lump Sum
Environmental Contamination Assessment
Tampa Hillsborough Expressway Authority (THEA)
CSX Arden Mills Track Removal Project
Tampa, Hillsborough County, Florida
THEA Project No: TBD Contract Number: TBD

Category	Unit Quantity	Unit	Unit Rate ($)	Total ($)
Personnel				
Project Manager	10	hours	125.00	1,250.00
Senior Geologist / Engineer (report preparation, field preparation, utility r	40	hours	95.00	3,800.00
Project Geologist (F=2 x 10h x 4 days, Utility markout =4 hours)	84	hours	65.00	5,460.00
Technical Illustrator	4	hours	60.00	240.00
Clerical	8	hours	55.00	440.00
Field Clerk/Typist	8	hours	55.00	440.00
Safety Engineer	2	hours	60.00	120.00
Subtotal – Personnel				**$11,750.00**
Reproduction				
Letter Size Paper (8-1/2" x 11")	2,000	sheets	0.15	300.00
B Size Paper (11" x 17")	100	sheets	0.35	35.00
Subtotal – Reproduction				**$335.00**
Travel				
Mileage (20 miles round trip x 4 days + 1 day utility mark-out, lab trips)	150	miles	0.445	66.75
Subtotal – Travel				**$66.75**
Equipment				
Truck, 4 Wheel Drive (4 days sampling, 1 day - utility locates mark-out)	5	days	70.00	350.00
Hand Augers (2 x 4 days)	8	days	15.00	120.00
Portable Eye Wash	4	days	10.00	40.00
Photoionization Detector (PID)	4	days	46.00	184.00
Communication Devices / Portable Radio (2 x 4 days)	8	days	20.00	160.00
Cooler (Water) (2 x 4 days)	8	days	5.00	40.00
Subtotal – Equipment				**$894.00**
Expendables and Miscellaneous (E&M)				
16-Ounce Sample Jars	40	each	2.50	100.00
Safety Goggles/glasses	2	pairs	5.00	10.00
Gloves, Sample (125 pair/box x 2 boxes)	250	pairs	0.75	187.50
Ice (5 lb bags sample cooler + water cooler) (Dry Ice unit rate)	100	lb	5.00	500.00
Water - 16 oz bottles - 1 case x 5 days (Dry Ice unit rate)	50	lb	5.00	250.00
Fungicide/Sanitizer (SkockWave or equiv.)	1	pint	10.00	10.00
Aluminum foil (Duct tape unit rate)	2	rolls	7.00	14.00
Trash Bags	1	box	10.00	10.00
Subtotal – E&M				**$1,081.50**
Analytical				
Soils - Normal Turnaround				
Used Oil Group (excluding PCBs, OC Pesticides)	40	each	490.00	19,600.00
Organochlorine Pesticides & PCBs	40	each	100.00	4,000.00
Subtotal – Analytical				**$23,600.00**
TOTAL Lump Sum Estimate				**$37,727.25**

SCOPE OF SERVICES
TAMPA HILLSBOROUGH EXPRESSWAY AUTHORITY
CSX Ardent Mills Track Removal Plans
THEA Project No.: TBD

I. OBJECTIVES

The Tampa Hillsborough Expressway Authority (THEA) requires Professional Services to prepare construction plans for the removal of all existing CSX Railroad primary, side and/or spur tracks within THEA right-of-way that services the Ardent Mills facility in downtown Tampa. The project limits are from north of East Cumberland Avenue to north of Twiggs Street. The CONSULTANT shall develop design documents, contract plans, specifications and detailed cost estimates for the work. These contract documents will be used to bid the project and by the successful contractor to build the project, and by THEA and its Construction Engineering & Inspection (CEI) CONSULTANT for inspection and final acceptance of the project.

II. PROJECT DESCRIPTION

The CONSULTANT shall prepare construction plans for the removal of all existing CSX Railroad primary, side and/or spur tracks and restoration to existing grades within THEA right-of-way that services the Ardent Mills facility in downtown Tampa from north of East Cumberland Avenue to north of Twiggs Street.

The work shall include removal of railroad tracks running across the following roadways:

- East Jackson Street
- East Kennedy Blvd.
- East Twiggs Street

Existing railroad signals, crossing gates, and railroad signs and crossing pavement marking shall also be removed as part of this project.

East Twiggs Street is a City of Tampa Street and coordination and permitting with the City will be required.

East Jackson Street and East Kennedy Blvd. are State Roadways and coordination and permitting will be required with FDOT.

The CONSULTANT shall coordinate the removal of the at-grade crossings with the FDOT Rail Office (District 7 and Central Office) as required.

The CONSULTANT shall conduct all necessary environmental investigations and analysis to identify and depict in the plans all hazardous material locations within the project limits. Plans shall also indicate disposition of removed tracks, ties, and ballast in accordance with local rules regarding hazardous/special waste. The plans shall identify the removal and disposal of contaminated materials found below the railroad ties (i.e. ballast and supporting materials) shall be handled by the Contractor's qualified Contamination and Remediation (CAR) Contractor as approved by THEA.

The CONSULTANT shall prepare plan and profile sheets, typical sections, pavement designs, temporary traffic control plans, drainage, base clearance, utility coordination, local and state agency permitting, environmental permitting, signing and pavement marking, survey, and geotechnical investigations and specification package.

III. ANALYSIS AND PLANS

Submit Phase II (60%) and Phase IV (100%) and Final plans. The CONSULTANT shall deliver final contract plans and documents in digital format. The final contract plans and documents shall be digitally signed and sealed files delivered to THEA on acceptable electronic media, as determined by the THEA.

Prepare a Typical Section Package to coordinate with the City of Tampa and FDOT (District 7) for design concurrence along the cross streets.

Prepare construction cost estimates when scope changes occur and/or at milestones of the project.

Prepare the Specification Package and provide Technical Special Provisions for all items of work not covered by the FDOT's Standard Specifications for Road and Bridge Construction and the workbook of implemented modifications.

Provide proposed Pavement Designs prior to the Phase II plans submittal date. It is anticipated that the pavement designs for the track removals at the cross streets will match the current respective pavement designs for each street. Pavement cores will be performed along each cross street to support the pavement design evaluation.

The non-roadway areas shall be leveled out and seeded and mulched. Contours will be reviewed to ensure positive drainage.

Design a safe and effective temporary traffic control design and prepare temporary traffic control plans. Investigate the need for temporary traffic signals, temporary lighting, alternate detour roads.

Prepare Roadway, Traffic Control, Utility Adjustment Sheets, Signing and Pavement Markings Sheets, Signalization Sheets, plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction:

- Key Sheet
- Typical Section Sheets for roadway crossings and for the land area away from the road crossings
- Drainage Map
- General Notes
- Project Layout for CSX track removal and sheet map layout
- Summary of Quantities
- Plan/Profile Sheets
- Special Details
- Drainage Structure Sheets
- Miscellaneous Drainage Detail Sheets
- Cross Section Pattern Sheet
- Roadway Soil Survey Sheet
- Cross Sections
- Erosion Control Plan Sheets
- SWPPP Sheets
- Temporary Traffic Control Plan Sheets
- Utility Adjustment Sheets
- Project Network Control Sheets
- Utility Verification Sheets
- Signing and Pavement Marking Sheets
- Signalization Sheets including removal of railroad equipment and signal preemption

Evaluate and address drainage to adequately drain the track removal areas and maintain positive drainage during all construction phases. Provide documentation.

Identify utility facilities and secure agreements, utility work schedules, and plans from the Utility Agency Owners (UAO) ensuring all conflicts that exist between utility facilities and THEA's construction project are addressed.

Collect all data and information necessary to prepare the permit applications and obtain the environmental permits required to construct the project.

Prepare and submit applicable permit applications to FDOT. Coordinate as necessary with the FDOT Rail Office.

Submit Construction documents for the crossings at Twiggs Street in the City's Accela system.

Prepare Signing and Pavement Marking plans and complete associated tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums. The Consultant will perform all effort required for field data collection, and investigation in accordance with the FDOT's Manual on Uniform Traffic Studies. The existing railroad crossing pavement markings are to be removed.

Prepare Signalization Plans and complete associated tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums. Consultant shall analyze and document existing signalizations and railroad signal equipment in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums. The Consultant will perform all effort required for field data collection, and investigation in accordance with the FDOT's Manual on Uniform Traffic Studies. The existing railroad crossing flashing signals and gates are to be removed.

Perform survey tasks in accordance with all applicable statutes, manuals, guidelines, standards, handbooks, procedures, and current design memoranda. Include project control, topography, underground utilities (Subsurface Utility Engineering (SUE)) and right of way.

- Topographic Survey to be performed to Standards of Practice for land surveying in the State of Florida per FAC Chapter 5J-17
- Establish Horizontal Project Control referenced to NAD 1983,2011 adjustment
- Establish Vertical Project Control referenced to NAVD 1988
- Provide location of all existing improvements and show on map of survey (including railroad tracks, railroad beds, buildings, curbs, paving, concrete slabs, etc.) within project area
- Locate above ground evidence of utilities within specified project area
- Obtain ground elevations on 50' grid and grade- breaks

Perform a geotechnical investigation including a determination of LBR values, existing groundwater elevations and an estimate of the seasonal highwater table. All work performed by the CONSULTANT shall be in accordance with FDOT standards. Prepare a preliminary geotechnical report summarizing the results of the auger boring program, laboratory test results on the soil samples, groundwater table data and

estimated seasonal high groundwater table. A Roadway Soil Survey plan sheet will be provided with the construction plans.

IV. PROJECT SCHEDULE

Within ten (10) days after the Notice-To-Proceed, and prior to the CONSULTANT beginning work, provide a detailed project activity/event schedule for THEA and CONSULTANT scheduled activities.

V. QUALITY CONTROL

The CONSULTANT shall be responsible for ensuring that all work products conform to FDOT standards and criteria. This shall be accomplished through an internal Quality Control (QC) process performed by the CONSULTANT. This QC process shall insure that quality is achieved through checking, reviewing, and surveillance of work activities by objective and qualified individuals who were not directly responsible for performing the initial work.

VI. PROGRESS MEETINGS

Progress Meetings will be held monthly and any unscheduled meetings as necessary. Within ten (10) days after the Notice to Proceed, the CONSULTANT shall provide a schedule of calendar deadlines in a format prescribed by the THEA.

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
County: Hillsborough
FPN: 001-202126.02
FAP No.: N/A

Consultant Name: Kisinger Campo & Associates
Consultant No.: N/A
Date: 11/23/2021
Estimator: Branan Anderson, PE

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Chief Engineer	Senior Engineer 2	Senior Engineer 1	Engineer 2	Engineer 1	Engineering Intern	Senior Designer					SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$240.72	$266.02	$233.62	$226.77	$201.75	$143.98	$119.57	$128.47							
3. Project General and Project Common Tasks	173	35	0	0	43	35	35	17	9	0	0	0	0	174	$33,466	$192.33
4. Roadway Analysis	604	18	12	12	66	121	193	151	30	0	0	0	0	603	$99,405	$164.85
5. Roadway Plans	331	10	7	7	36	66	106	83	17	0	0	0	0	332	$54,754	$164.92
6a. Drainage Analysis	145	4	3	3	16	29	46	36	7	0	0	0	0	144	$23,768	$165.05
6b. Drainage Plans	143	4	3	3	16	29	46	36	7	0	0	0	0	144	$23,768	$165.05
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.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	103	3	2	2	11	21	33	26	5	0	0	0	0	103	$16,955	$164.61
20. Signing & Pavement Marking Plans	45	1	1	1	5	9	14	11	2	0	0	0	0	44	$7,278	$165.41
21. Signalization Analysis	176	5	4	4	19	35	56	44	9	0	0	0	0	176	$29,052	$165.07
22. Signalization Plans	126	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!
Total Staff Hours	1,846	80	32	32	212	345	529	404	86	0	0	0	0	1,720		
Total Staff Cost		$19,257.60	$8,512.64	$7,475.84	$48,075.24	$69,603.75	$76,165.42	$48,306.28	$11,048.42	$0.00	$0.00	$0.00	$0.00		**$288,445.19**	**$167.70**

Check = $288,445.19

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:						$288,445.19
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
SUBTOTAL ESTIMATED FEE:						**$288,445.19**
Subconsultant:	EAI					$30,770.87
Subconsultant:	AREHNA					$5,137.32
Subconsultant:	ECHO					$33,782.06
Subconsultant:	APTIM					$37,727.25
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
SUBTOTAL ESTIMATED FEE:						**$395,862.69**
Geotechnical Field and Lab Testing						$2,807.00
SUBTOTAL ESTIMATED FEE:						**$398,669.69**
Optional Services						$0.00
GRAND TOTAL ESTIMATED FEE:						**$398,669.69**

ESTIMATE OF WORK EFFORT AND COST - Echezabal

Name of Project: THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
County: Hillsborough
FPN: 001-202126.02
FAP No.: N/A

Consultant Name: ECHEZABAL
Consultant No.: N/A
Date: 11/23/2021
Estimator: **Steve Tate, PSM**

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Surveyor	Survey Analyst 3	0	0	0	0	0	0	0	0	0	0	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$166.75	$91.71	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			
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.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
25. Landscape 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)	85	13	72	0	0	0	0	0	0	0	0	0	0	85	$8,771	$103.19
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	53	$0	$0.00
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	85	13	72	0	0	0	0	0	0	0	0	0	0	138		
Total Staff Cost		$2,167.75	$6,603.12	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		**$8,770.87**	**$63.56**

Check = $8,770.87

SALARY RELATED COSTS:					$8,770.87
OVERHEAD:		0%			$0.00
OPERATING MARGIN:		0%			$0.00
FCCM (Facilities Capital Cost Money):		0.00%			$0.00
EXPENSES:		0.00%			$0.00
SUBTOTAL ESTIMATED FEE:					**$8,770.87**
Survey (Field)	11	4-person crew days @	$ 2,000.00	/ day	$22,000.00
Geotechnical Field and Lab Testing					$0.00
SUBTOTAL ESTIMATED FEE:					**$30,770.87**
Optional Services					$0.00
GRAND TOTAL ESTIMATED FEE:					**$30,770.87**

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

ESTIMATE OF WORK EFFORT AND COST - AREHNA

Name of Project: THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
County: Hillsborough
FPN: 001-202126.02
FAP No.: N/A

Consultant Name: AREHNA
Consultant No.: N/A
Date: 11/23/2021
Estimator: Kirk Eastman, PE

Staff Classification	Total Staff Hours From "SH Summary - Firm"	MAT CADD/ Computer Designer	MAT Engineer	MAT Engineer Intern	MAT Engineering Technician	MAT Principal Engineer	MAT Secretary/ Clerical	MAT Senior Engineer	MAT Senior Engineering Technician	0	0	0	0	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$95.26	$115.32	$97.67	$47.63	$207.52	$64.75	$156.23	$75.91	$0.00	$0.00	$0.00	$0.00			
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.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
25. Landscape 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	50	8	13	13	5	1	0	5	5	0	0	0	0	50	$5,137	$102.75
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	50	8	13	13	5	1	0	5	5	0	0	0	0	50		
Total Staff Cost		$762.08	$1,499.16	$1,269.71	$238.15	$207.52	$0.00	$781.15	$379.55	$0.00	$0.00	$0.00	$0.00		**$5,137.32**	**$102.75**

Check = $5,137.32

SALARY RELATED COSTS:				$5,137.32
OVERHEAD:	0%			$0.00
OPERATING MARGIN:	0%			$0.00
FCCM (Facilities Capital Cost Money):	0.00%			$0.00
EXPENSES:	0.00%			$0.00
SUBTOTAL ESTIMATED FEE:				**$5,137.32**
Survey (Field)	4-person crew days @	-	/ day	$0.00
Geotechnical Field and Lab Testing				$2,807.00
SUBTOTAL ESTIMATED FEE:				**$7,944.32**
Optional Services				$0.00
GRAND TOTAL ESTIMATED FEE:				**$7,944.32**

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

ESTIMATE OF WORK EFFORT AND COST - ECHO

Name of Project: THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
County: Hillsborough
FPN: 001-202126.02
FAP No.: N/A

Consultant Name: ECHO
Consultant No.: N/A
Date: 11/23/2021
Estimator: Jerry Comellas, PE

Staff Classification	Total Staff Hours From "SH Summary Firm"	Project Manager 3	SUR Senior Surveyor	SUR Project Surveyor	SUR Survey/GIS/SUE Analyst 3 (Senior)	Senior Utility Coordinator	0	0	0	0	0	0	0	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$164.18	$164.18	$129.98	$82.54	$122.62	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			
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	49	0	0	0	0	49	0	0	0	0	0	0	0	49	$6,008	$122.62
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.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
25. Landscape 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	53	8	8	16	21	0	0	0	0	0	0	0	0	53	$6,440	$121.51
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	102	8	8	16	21	49	0	0	0	0	0	0	0	102		
Total Staff Cost		$1,313.44	$1,313.44	$2,079.68	$1,733.34	$6,008.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		**$12,448.28**	**$122.04**

Check = $12,448.28

SALARY RELATED COSTS:					$12,448.28
OVERHEAD:		0%			$0.00
OPERATING MARGIN:		0%			$0.00
FCCM (Facilities Capital Cost Money):		0.00%			$0.00
EXPENSES:		0.00%			$0.00
SUBTOTAL ESTIMATED FEE:					**$12,448.28**
Designating (Field)	7.4	3-person crew days @	$ 1,969.09	/ day	$14,611.33
Locating (Field)	1.4	3-person crew days @	$ 1,969.09	/ day	$2,789.90
Survey (Field)	2.4	3-person crew days @	$ 1,626.55	/ day	$3,932.55
SUBTOTAL ESTIMATED FEE:					**$33,782.06**
Optional Services					$0.00
GRAND TOTAL ESTIMATED FEE:					**$33,782.06**

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

Project Activity 3: General Tasks

Estimator: Branan Anderson, KCA

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA	**Branan Anderson, PE**	

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	N/A
3.1.2	Notifications	LS	1	0	0	N/A
3.1.3	Preparing Mailing Lists	LS	1	0	0	N/A
3.1.4	Median Modification Letters	LS	1	0	0	N/A
3.1.5	Driveway Modification Letters	LS	1	0	0	N/A
3.1.6	Newsletters	LS	1	0	0	N/A
3.1.7	Renderings and Fly Throughs	LS	1	0	0	N/A
3.1.8	PowerPoint Presentation	LS	1	0	0	N/A
3.1.9	Public Meeting Preparations	LS	1	0	0	N/A
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	N/A
3.1.11	Other Agency Meetings	LS	1	0	0	N/A
3.1.12	Web Site	LS	1	0	0	N/A
	3.1 Public Involvement Subtotal				**0**	
3.2	Joint Project Agreements	EA	0	0	0	N/A
3.3	Specifications & Estimates					
3.3.1	Specifications Package Preparation	LS	1	24	24	Includes coordination for removal/disposal of contaminated materials to be handled by THEA's Contamination Remediation Contractor
3.3.2	Estimated Quantites Report Preparation	LS	1	0	0	N/A

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.4	Contract Maintenance and Project Documentation	LS	1	68	68	Initial setup: 20 hrs Montly project maintenance (progress reports, schedule updates, & THEA coordination): 5 hrs/month; 8 month design schedule = 40 hrs Final project documentation: 8 hrs Total: **68 hrs**
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	18	18	See listing below
3.7	Plans Update	LS	1	0	0	N/A

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	40	40	Assuming 2 revisions @ 8 hrs/revision = 16 hrs Engineering Assistance (General Coordination, RFM's & RFI coordination): 5 units @ 4 hrs/unit = 20 hrs Meeting Attendance, Includes Pre-Bid/Pre-Con meetings, meeting with THEA: 2 meetings @ ((1.0 hrs/meeting) x 2 staff): 4 hrs Total: **40 hrs**
3.9	Digital Delivery	LS	1	15	15	KCA: 6 hrs initial setup and sign by first EOR 3 hrs x 3 additional signatures (drainage, signing and pavement marking, and geotechnical) = 9 hrs Total: **15 hrs**
3.10	Risk Assessment Workshop	LS	1	0	0	N/A
3.11	Railroad, Transit, and/or Airport Coordination	LS	2	4	8	2 Meetings with FDOT Rail / FRA for Track Removal and Documentation 2mtgs x (1 hr prep time + 1 hr/mtg + 2 hrs meeting minutes) = **8 hrs**
3.11.1	Aeronautical Evaluation	LS	1	0	0	N/A
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	N/A
3.13	Other Project General Tasks	LS	1	0	0	N/A
3. Project Common and Project General Tasks Total					**173**	

3.6 - List of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis	EA	3	1	3	Carried from Roadway
Drainage	EA	2	1	2	Carried from Drainage
Utilities	EA	1	1	1	Utility Design Meeting with ECHO
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	2	1	2	Carried from Geotechnical
Progress Meetings	EA	8	1	8	Monthly progress meeting - 8 month design schedule
Phase Reviews	EA	2	1	2	Phone call with HNTB
Field Reviews	EA	0	0	0	
Total Project Manager Meetings		18		18	Total PM Meeting Hours carries to Task 3.6 above

Project Activity 4: Roadway Analysis

Estimator: Branan Anderson, KCA

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA	**Branan Anderson, PE**	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	24	24	Prepare Typical Section Package for FDOT concurrence - Impacts to on-system roadways Track removal concurrence with FDOT Rail
4.2	Pavement Type Selection Report	LS	1	0	0	N/A
4.3	Pavement Design Package	LS	1	8	8	Data Collection to include pavement cores - Match Existing - Prepare memo documenting the proposed pavement design and reviewing eisting pavement conditions.
4.4	Cross-Slope Correction	LS	1	0	0	N/A
4.5	Horizontal /Vertical Master Design Files	LS	1	164	164	Low range complexity: 200 hrs/mile 0.6 miles tracks + 0.04 miles Twiggs + 0.07 Kennedy + 0.05 Jackson Total: 200 hrs/mile x 0.76 mile (Along Meridian and 3 sidestreets) = 152 hrs Add ons: Utility conflicts: (Assume 6 conflicts with reconstruction, signalization components, etc.) 6 utilities x 2 hrs/phase submittal (60%) = 12 hrs Total: **164 hrs**
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
4.9	Cross Section Design Files	LS	1	60	60	40 hrs/mile (low range project; recommend 50' spacing) = 0.75 miles x (40 hrs/mile x 2) = 60 hrs Total: **60 hrs**
4.10	Temporary Traffic Control Plan Analysis	LS	1	60	60	Level I Analysis; Lane Closures - Detour routes; Plan for weekend detour only for Jackson St, Kennedy Blvd, & Twiggs St 2 phases: 8 hrs a location per phase = 3 locations x 8 hrs = 24 hrs x 2 phases = 48 hrs Temporary Drainage (Reconstruction impacting closed system trunk line): 12 hrs **Total: 48 + 12 = 60 hrs**
4.11	Master TTCP Design Files	LS	1	56	56	Level I Analysis; Detour development, TCP Detailed design at Twiggs and Jackson to minimize detours and maintain at least two lanes of thru traffic, and temp pedestrian routes 3 locations x 8 hrs = 24 hrs x 2 phases = 48 hrs 3 pedestrian detours = 4 hrs/phase x 2 phases = 8 hrs **Total: 48 hrs + 8 hrs = 56 hrs**
4.12a	Selective Clearing and Grubbing of Existing VegetationField Assessment	LS	1	0	0	N/A

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
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 Dispostion 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	24	24	Roadway documentation only; To be documentated for 60% plans and final documents
4.16	Quantities	LS	1	60	60	Includes all work for quantity take offs, tabulation of summary of quantities and pay items, estimation of construction days
4.17	Cost Estimate	LS	1	24	24	Engineer's Estimate using FDOT's historical cost and PH II quantities - 20 hrs; 4 hr update for Final Plans Engineer's Estimate: **24 hrs**
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	24	24	Assume 2 TSP's @ 12 hrs/TSP = 24 hrs
4.19	Other Roadway Analyses	LS	1	0	0	N/A
Roadway Analysis Technical Subtotal					**504**	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	8	8	1 Roadway design field review 2 staff x 4 hours/field review = **8 hrs**
4.21	Monitor Existing Structures	LS	1	0	0	N/A
4.22	Technical Meetings	LS	1	14	14	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	7%	35	
4.24	Independent Peer Review	LS	%	0%	0	N/A
4.25	Supervision	LS	%	5%	25	
Roadway Analysis Nontechnical Subtotal					**82**	
4.26	Coordination	LS	%	3%	18	
4. Roadway Analysis Total					**604**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0	N/A	no	0
Pavement	EA	1	3	3	1 staff x (1 hr mtg + 1 hr prep + 1 hr mtg minutes) =**3 hrs**	yes	1
Access Management	EA	0	0	0	N/A	no	0
15% Line and Grade	EA	0	0	0	N/A	no	0
Driveways	EA	0	0	0	N/A	no	0
Local Governments (cities, counties, MPO)	EA	1	3	3	1 COT meeting; 1 staff x (1 hr meeting + 1 hr prep + 1 hr meeting minutes)	yes	1
Work Zone Traffic Control	EA	1	3	3	1 staff x (1 hr mtg + 1 hr prep + 1 hr mtg minutes) =**3 hrs**	yes	1
30/60/90/100% Comment Review Meetings	EA	2	1	2	1 hr discussion with HNTB x 2 submittals =**2 hrs**	no	0
Other Meetings	EA	3	1	3	1 mtg with FDOT (discuss impacts to state roads); 2 meetings with FDOT Rail / FRA; 3 mtgs x (1 hr mtg) =**3 hrs**	no	0
Subtotal Technical Meetings				**14**	**Subtotal Project Manager Meetings**		3
Progress Meetings (if required by the County)	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				**14**	**Total Project Manager Meetings (carries to Tab 3)**		**3**

Carries to 4.22

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator: Branan Anderson, KCA

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA	**Branan Anderson, PE**	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet	Sheet	1	8	8	
5.2	Typical Section Sheets					
5.2.1	Typical Sections	EA	5	5	25	Reconstruction shown for each roadway crossing (1 typical for each crossing), 1 typical for single rail removal, and 1 typical south of Kennedy Blvd. for consecutive track removal
5.2.2	Typical Section Details	EA	0	0	0	
5.3	General Notes/Pay Item Notes	Sheet	1	8	8	
5.4	Project Layout	Sheet	1	8	8	Map showing track removal, alignment, and sheet layout
5.5	Plan/Profile Sheet	Sheet	7	4	28	1" = 40' @ 7 sheets
5.6	Profile Sheet	Sheet	0	0	0	N/A
5.7	Plan Sheet	Sheet	0	0	0	N/A
5.8	Special Profile	Sheet	0	0	0	N/A
5.9	Back-of-Sidewalk Profile Sheet	Sheet	0	0	0	N/A
5.10	Interchange Layout Sheet	Sheet	0	0	0	N/A
5.11	Ramp Terminal Details (Plan View)	Sheet	0	0	0	N/A
5.12	Intersection Layout Details	Sheet	0	0	0	N/A
5.13	Special Details	EA	4	8	32	CSX track detail and over excavation at Rdwy crossings; Includes Summary of Quantity Sheets
5.14	Cross-Section Pattern Sheets	Sheet	1	8	8	1" = 400' @ 1 sheet (double panel)
5.15	Roadway Soil Survey Sheets	Sheet	1	1	1	Furnished by AREHNA

Project Activity 5: Roadway Plans

Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.16	Cross Sections	EA	80	0.5	40	Project length: 0.76 miles x 5,280' = 3,960' @ 50' spacing = 80 sections 80 sections x 0.5 hr/section = **40 hrs**
5.17	Temporary Traffic Control Plan Sheets	Sheet	6	4	24	1" = 40' @ 2 phases: 3 sheets x 2 phases = 6 sheets x 4 hrs/sht = **24 hrs**
5.18	Temporary Traffic Control Cross Section Sheets	EA	0	0	0	N/A
5.19	Temporary Traffic Control Detail Sheets	Sheet	6	8	48	1 general notes sheets 1 phase note sheet 1 advance warning layout sheet 3 pedestrian detour sheets Total: 6 sheets x 8 hrs/sht = **48 hrs**
5.20	Utility Adjustment Sheets	Sheet	7	4	28	1" = 40' @ 7 sheets
5.21	Selective Clearing and Grubbing Sheets					
5.21.1	Selective Clearing and Grubbing	Sheet	0	0	0	N/A
5.21.2	Selective Clearing and Grubbing Details	Sheet	0	0	0	N/A
5.22	Tree Disposition Sheets					
5.22.1	Tree Disposition Plan Sheets	Sheet	0	0	0	N/A
5.22.2	Tree Disposition Plan Tables and Schedules	Sheet	0	0	0	N/A
5.23	Project Control Sheets	Sheet	1	1	1	Furnished by McKim & Creed
5.24	Environmental Detail Sheets	Sheet	4	8	32	Assume 1 Env Detail sheet through coordination with APTIM
5.25	Utility Verification Sheets (SUE Data)	Sheet	1	4	4	Roadway responsible for formatting SUE data
				Roadway Plans Technical Subtotal	**295**	
5.26	Quality Assurance/Quality Control	LS	%	7%	21	
5.27	Supervision	LS	%	5%	15	
				5. Roadway Plans Total	**331**	

Project Activity 6a: Drainage Analysis

Estimator:

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA		

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	2	6	12	
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	15	15	
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	EA	6	3	18	
6a.10	Optional Culvert Material	EA	6	0.25	2	
6a.11	French Drain Systems	Per Cell	0	0	0	N/A
6a.11.1	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	30	30	
6a.14	Bridge Hydraulic Report	EA	0	0	0	N/A

Project Activity 6a: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	1	16	16	
6a.16	Quantities	LS	1	8	8	
6a.17	Cost Estimate	LS	1	4	4	
6a.18	Technical Special Provisions / Modified Special Provisions	LS	1	0	0	N/A
6a.19	Hydroplaning Analysis	LS	1	0	0	N/A
6a.20	Existing Permit Analysis	LS	1	8	8	
6a.21	Other Drainage Analysis	LS	1	0	0	N/A
6a.22	Noise Barrier Evaluation	LS	1	0	0	N/A
				Drainage Analysis Technical Subtotal	**113**	
6a.23	Field Reviews	LS	1	8	8	wet and dry conditions 2 staff x 8 hours/field review x 1 field reviews = 16 hrs
6a.24	Technical Meetings	LS	1	6	6	Meetings are listed below
6a.25	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.26	Quality Assurance/Quality Control	LS	%	7%	8	
6a.27	Independent Peer Review	LS	%	0%	0	N/A
6a.28	Supervision	LS	%	5%	6	
				Drainage Analysis Nontechnical Subtotal	**28**	
6a.29	Coordination	LS	%	3%	4	
				6a. Drainage Analysis Total	**145**	

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		no	0
Agency	EA	0	0	0		no	0
Local Governments (cities, counties)	EA	0	0	0		no	0
County Drainage	EA	0	0	0			0
Other Meetings	EA	2	2	4		yes	2
Subtotal Technical Meetings				**4**			2
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	1	2	*PM attendance at Phase Review Meetings is manually entered on General Task 3*		- -
Total Meetings				**6**	**Total Project Manager Meetings (carries to Tab 3)**		**2**

Carries to 6a.24

Carries to Tab 3

6b. Drainage Plans

Estimator:

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
Escambia County		
KCA		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (Including Interchanges)	Sheet	2	40	80	
6b.2	Bridge Hydraulics Recommendation Sheets	Sheet	0	0	0	N/A
6b.3	Drainage Structures	LS	1	18	18	6 drainage structures
6b.4	Lateral Ditch Plan/Profile	Sheet	0	0	0	N/A
6b.5	Lateral Ditch Cross Sections	EA	0	0	0	N/A
6b.6	Retention/Detention Ponds Detail Sheets	Sheet	0	0	0	N/A
6b.7	Retention Pond Cross Sections	EA	0	0	0	N/A
6b.8	Erosion Control Plan Sheets	Sheet	6	3	18	
6b.9	SWPPP Sheets	Sheet	2	6	12	
				Drainage Plans Technical Subtotal	**128**	
6b.10	Quality Assurance/Quality Control	LS	%	7%	9	
6b.11	Supervision	LS	%	5%	6	
				6. Drainage Plans Total	**143**	

Project Activity 7: Utilities

Estimator:

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
THEA		
ECHO		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours		Comments
7.1	Utility Kickoff Meeting	LS	0	0	0	N/A	
7.2	Identify Existing Utility Agency Owner(s)	LS	5	1	5	1 hour X 5 UAO's= 5 hours	
7.3	Make Utility Contacts	LS	5	1	5	1 hour X 5 UAO's= 5 hours	
7.4	Exception Processing	LS	0	0	0	N/A	
7.5	Preliminary Utility Meeting	LS	0	0	0	N/A	
7.6	Individual/Field Meetings	LS	1	7	7	1 hour meeting prep + 4 hour travel + 1 hour meeting + 1 hour meeting minutes= 7 hours X 1 field meeting	
7.7	Collect and Review Plans and Data from UAO(s)	LS	0	0	0	N/A	
7.8	Subordination of Easements Coordination	LS	1	0	0	N/A	
7.9	Utility Design Meeting	LS	1	7	7	1 hour meeting prep + 4 hour travel + 1 hour meeting + 1 hour meeting minutes= 7 hours	
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	5	2	10	2 hours X 5 UAO's= 10 hours	
7.11	Utility Coordination/Followup	LS	5	2	10	2 hours X 5 UAO's= 10 hours	
7.12	Utility Constructability Review	LS	0	0	0	N/A	
7.13	Additional Utility Services	LS	1	0	0	N/A	
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	N/A	
7.15	Contract Plans to UAO(s)	LS	1	0	0	N/A	
7.16	Certification/Close-Out	LS	5	1	5	1 hour X 5 UAO's= 5 hours	
7.17	Other Utilities	LS	1	0	0	N/A	
				7. Utilities Total	**49**		

Project Activity 7: Utilities

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

Carries to Tab 3

Project Activity 19: Signing and Pavement Marking Analysis

Estimator:

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.

001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA		

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	4	4	
19.2	No Passing Zone Study	LS	1	0	0	N/A
19.3	Signing and Pavement Marking Master Design File	LS	1	60	60	30hrs set up + 10 hrs x 3 side streets
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	N/A
19.5	Sign Panel Design Analysis	EA	1	0	0	N/A
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	N/A
19.7	Quantities	LS	1	8	8	
19.8	Cost Estimate	LS	1	8	8	
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
19.10	Other Signing and Pavement Marking	LS	1	0	0	N/A
Signing and Pavement Marking Analysis Technical Subtotal					**80**	
19.11	Field Reviews	LS	1	8	8	1 field review; 2 people @ 4 hr field review = 8 hrs
19.12	Technical Meetings	LS	1	2	2	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	7%	6	
19.14	Independent Peer Review	LS	%	0%	0	N/A
19.15	Supervision	LS	%	5%	4	
Signing and Pavement Marking Analysis Nontechnical Subtotal					**20**	
19.16	Coordination	LS	%	3%	3	
19. Signing and Pavement Marking Analysis Total					**103**	

Project Activity 19: Signing and Pavement Marking Analysis

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**
Sign Panel Design		EA	0	0	0			0
Queue Length Analysis		EA	0	0	0			0
Local Governments (cities, counties)		EA	0	0	0			0
Other Meetings		EA	0	0	0			0
Subtotal Technical Meetings					**0**		**Subtotal Project Manager Meetings**	0
Progress Meetings (if required by FDOT)		EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		- -
Phase Review Meetings		EA	2	1	2	PM attendance at Phase Review Meetings is manually entered on General Task 3		- -
Total Meetings					**2**		**Total Project Manager Meetings (carries to Tab 3)**	**0**

Carries to 19.12

Carries to Tab 3

Project Activity 20: Signing and Pavement Marking Plans

Estimator: Fathy Abdalla

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet	Sheet	1	6	1	6	
20.2	General Notes/Pay Item Notes	Sheet	1	6	1	6	
20.3	Project Layout	Sheet	0	0	0	0	N/A
20.4	Plan Sheet	Sheet	7	4	7	28	7 Plan sheets
20.5	Typical Details	EA	0	0		0	N/A
20.6	Guide Sign Worksheets	EA	0	0		0	N/A
20.7	Traffic Monitoring Site	EA	0	0		0	N/A
20.8	Cross Sections	EA	0	0		0	N/A
20.9	Special Service Point Details	EA	0	0		0	N/A
20.10	Special Details	LS	0	0		0	N/A
20.11	Interim Standards	LS	0	0		0	N/A
Signing and Pavement Marking Plans Technical Subtotal					**9**	**40**	
20.12	Quality Assurance/Quality Control	LS	%	7%		3	
20.13	Supervision	LS	%	5%		2	
20. Signing and Pavement Marking Plans Total					**9**	**45**	

Project Activity 21: Signalization Analysis

Estimator:

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA		

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	N/A
21.2	Traffic Data Analysis	PI	1	0	0	N/A
21.3	Signal Warrant Study	LS	1	0	0	N/A
21.4	System Timings	LS	1	0	0	N/A
21.5	Reference and Master Signalization Design File	PI	3	20	60	3 signals modifications due to RR removals- remove RR preemptions
21.6	Reference and Master Interconnect Communication Design File	LS	1	0	0	N/A
21.7	Overhead Street Name Sign Design	EA	0	0	0	N/A
21.8	Pole Elevation Analysis	LS	1	0	0	N/A
21.9	Traffic Signal Operation Report	LS	1	0	0	N/A
21.10	Quantities	LS	1	8	8	
21.11	Cost Estimate	LS	1	8	8	
21.12	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
21.13	Other Signalization Analysis	LS	1	60	60	Removal of all RR equipmen, gates, and RR controllers at Jackson St, Keneddy Blvd, and Twiggs Blvd (20 hr
Signalization Analysis Technical Subtotal					**136**	
21.14	Field Reviews	LS	1	8	8	1 field review; 2 people @ 4 hr field review = 8 hrs
21.15	Technical Meetings	LS	1	10	10	Meetings are listed below
21.16	Quality Assurance/Quality Control	LS	%	7%	10	
21.17	Independent Peer Review	LS	%	0%	0	N/A
21.18	Supervision	LS	%	5%	7	
Signalization Analysis Nontechnical Subtotal					**35**	

Project Activity 21: Signalization Analysis

21.19	Coordination	LS	%	3%	5	
	21. Signalization Analysis Total				**176**	

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	0	0	0			0
Maintaining Agency (cities, counties)	EA	2	2	4			0
Railroads	EA	2	2	4			0
Other Meetings	EA	0	0	0	0		0
Subtotal Technical Meetings				**8**	**Subtotal Project Manager Meetings**		0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		- -
Phase Review Meetings	EA	2	1	2	PM attendance at Phase Review Meetings is manually entered on General Task 3		- -
Total Meetings				**10**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to 21.15

Carries to Tab 3

Project Activity 22: Signalization Plans

Estimator:

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
22.1	Key Sheet		Sheet	1	6	1	6	
22.2	General Notes/Pay Item Notes		Sheet	1	6	1	6	
22.3	Plan Sheet		Sheet	6	5	6	30	
22.4	Interconnect Plans		Sheet	0	0	0	0	N/A
22.5	Traffic Monitoring Site		EA	0	0		0	N/A
22.6	Guide Sign Worksheet		EA	0	0		0	N/A
22.7	Special Details		Sheet	3	8	3	24	Remove all RR crossing equipment
22.8	Special Service Point Details		EA	0	0		0	N/A
22.9	Mast Arm/Monotube Tabulation Sheet		PI	0	0		0	N/A
22.10	Strain Pole Schedule		PI	0	0		0	N/A
22.11	TTCP Signal		EA	3	8		24	
22.12	Temporary Detection Sheet		PI	3	8		24	
22.13	Utility Conflict Sheet		Sheet	0	0	0	0	N/A
22.14	Interim Standards		LS	1	0		0	N/A
Signalization Plans Technical Subtotal						**11**	**114**	
22.15	Quality Assurance/Quality Control		LS	%	5%		6	
22.16	Supervision		LS	%	5%		6	
22. Signalization Plans Total						**11**	**126**	

27. Survey

Estimator:

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.

001-202126.02

Representing	Print Name	Signature / Date
THEA		
Echezabal		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.1	Horizontal Project Control (HPC)									Establish +/- 10 horizontal control points referenced to 83/2011 datum
	2-Lane Roadway	Mile	1.00	0.50	0.50	1.00	0.50	3.00	1.50	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.2	Vertical PC / Bench Line									Establish +/-10 vertical control points referenced to NAVD88 datum
	2-Lane Roadway	Mile	1.00	1.00	1.00	1.00	1.00	4.00	4.00	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.3	Alignment and Existing R/W Lines									
		Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27.4	Aerial Targets			Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
27.5	Reference Points	**"A"**		Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	
	Multi-lane Roadway	EA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Interstate	EA			0.00		0.00		0.00	
	Reference Points	**"B"**		Units/Day						
	Non Alignment Points/Approximate	EA			0.00		0.00		0.00	

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.6	Topography/DTM (3D)									includes CSX Railroad corridor & sidestreets
		Mile	1.00	8.00	8.00	1.00	8.00	7.00	56.00	
27.7	Planimetric (2D)									
		Mile			0.00		0.00		0.00	
27.8	Roadway Cross-Sections/Profiles									
		Mile			0.00		0.00		0.00	
27.9	Side Street Surveys									
		Mile			0.00		0.00		0.00	
27.10	Underground Utilities									
	Designates	Mile/Site	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Locates	Point	0	0	0.00	0.00	0.00	0.00	0.00	
	Survey		0%	0.00	0.00	0.00	0.00	0.00	0.00	
27.11	Outfall Survey									
		Mile			0.00		0.00		0.00	
27.12	Drainage Survey			Units/Day						
		EA			0.00		0.00		0.00	
27.13	Bridge Survey									
	Minor / Major	EA			0.00		0.00		0.00	
27.14	Channel Survey									
		EA			0.00		0.00		0.00	
27.15	Pond Site Survey									
		EA			0.00		0.00		0.00	
27.16	Mitigation Survey									
		Mile			0.00		0.00		0.00	
27.17	Jurisdiction Line Survey									
		Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27.18	Geotechnical Support			Units/Day						18 hand auger borings anticipated

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
		EA	1	1	1.00	3.00	3.00	1.00	1.00	10 hand auger borings anticipated

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.19	Sectional / Grant Survey									
		Corner	0	0.00	0.00	0.00	0.00	0.00	0.00	
		Mile			0.00		0.00		0.00	
27.20	Subdivision Location									
		Block	0	0	0.00	0.00	0.00	0.00	0.00	
27.21	Maintained R/W									
		Mile			0.00		0.00		0.00	
27.22	Boundary Survey									
		EA			0.00		0.00		0.00	
27.23	Water Boundary Survey									
		EA			0.00		0.00		0.00	
27.24	R/W Staking / R/W Line									
		EA			0.00		0.00		0.00	
		Mile			0.00		0.00		0.00	
27.25	R/W Monumentation									
		Point			0.00		0.00		0.00	
27.26	Line Cutting									
		Mile			0.00					
27.27	Work Zone Safety									
			0	0	0.00					
27.28	Vegetation Survey									
		LS							0	
27.29	Tree Survey									
		LS							0	
27.30	Miscellaneous Surveys									
					0.00		0.00		0.00	
Survey Subtotal				**Crew Days**	**11**	**Field Support Hours**	**13**	**Office Support Hours**	**63**	
27.31	Supplemental Surveys									THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT SURVEYOR
				11	0		0		0	

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.32	Document Research	Units								
			0.00						0	
27.33	Field Reviews	Units								
			0.00						0	
27.34	Technical Meetings	LS								
			0.00						0	
27.35	Quality Assurance / Quality Control	LS								
								7%	4	
27.36	Supervision	LS								
								5%	4	
27.37	Coordination	LS								
								3%	2	
		27. Survey Total		**Crew Days**	**11**	**Field Support Hours**	**13**	**Office Support Hours**	**73**	

SPLS =
PLS =
Office Support =
Total Hours = 85

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number	Comments
Kickoff Meeting with FDOT	EA	0	0	0		0	
Baseline Approval Review	EA	0	0	0		0	
Network Control Review	EA	0	0	0		0	
Vertical Control Review	EA	0	0	0		0	
Local Governments (cities, counties)	EA	0	0	0		0	
Final Submittal Review	EA	0	0	0		0	
Other Meetings	EA	0	0	0		0	
Subtotal Technical Meetings				**0**	**Subtotal PM Meetings**	0	
Progress Meetings (if required by FDOT)	EA	0	0	0	**	- -	
Phase Review Meetings	EA	0	0	0	**	- -	
Total Meetings				**0**	**Total PM Mtgs (carries to Tab 3)**	**0**	

Carries to 27.34 | Carries to Tab 3

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

28. Survey (SUE)

Estimator:

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
THEA		
ECHO - SUE		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.1	Horizontal Project Control (HPC)									
	2-Lane Roadway	Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.2	Vertical PC / Bench Line									
	2-Lane Roadway	Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.3	Alignment and Existing R/W Lines									
		Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27.4	Aerial Targets			Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
27.5	Reference Points	**"A"**		Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	
	Multi-lane Roadway	EA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Interstate	EA			0.00		0.00		0.00	
	Reference Points	**"B"**		Units/Day						
	Non Alignment Points/Approximate	EA			0.00		0.00		0.00	

28. Survey (SUE)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.6	Topography/DTM (3D)									
		Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27.7	Planimetric (2D)									
		Mile			0.00		0.00		0.00	
27.8	Roadway Cross-Sections/Profiles									
		Mile			0.00		0.00		0.00	
27.9	Side Street Surveys									
		Mile			0.00		0.00		0.00	
27.10	Underground Utilities									Quality Level B SUE (Designating): Horizontally locate underground utilities along the CSX project limits (including sidestreets) = 4,930 LF x 5 utilities = 24,650 LF of underground utilities ÷ 5,280 LF/mile = 4.669 miles. Quality Level A SUE (Locating): Vertically and horizontally locate underground utilities at three (3) crossing locations: Jackson St., Kennedy Blvd., & Twiggs St. 3 crossings x 2 test holes/crossing = 6 test holes locations (use 8 Test Holes) that may be in conflict with underground utilities (at the direction of the EOR) and based upon the Utility Conflict Matrix provided by others. Survey underground utility information and prepare deliverables.
	Designates	Mile/Site	4.67	1.50	7.00	2.00	14.01	3.00	21.01	
	Locates	Point	8	0.125	1.00	1.00	1.00	2.00	2.00	
	Survey		25%	8.00	2.00	2.00	4.00	3.00	6.00	
27.11	Outfall Survey									
		Mile			0.00		0.00		0.00	
27.12	Drainage Survey			Units/Day						
		EA			0.00		0.00		0.00	
27.13	Bridge Survey									
	Minor / Major	EA			0.00		0.00		0.00	
27.14	Channel Survey									
		EA			0.00		0.00		0.00	
27.15	Pond Site Survey									
		EA			0.00		0.00		0.00	
27.16	Mitigation Survey									
		Mile			0.00		0.00		0.00	
27.17	Jurisdiction Line Survey									
		Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

28. Survey (SUE)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.18	Geotechnical Support			Units/Day						
		EA	0	0	0.00	0.00	0.00	0.00	0.00	
27.19	Sectional / Grant Survey									
		Corner	0	0.00	0.00	0.00	0.00	0.00	0.00	
		Mile			0.00		0.00		0.00	
27.20	Subdivision Location									
		Block	0	0	0.00	0.00	0.00	0.00	0.00	
27.21	Maintained R/W									
		Mile			0.00		0.00		0.00	
27.22	Boundary Survey									
		EA			0.00		0.00		0.00	
27.23	Water Boundary Survey									
		EA			0.00		0.00		0.00	
27.24	R/W Staking / R/W Line									
		EA			0.00		0.00		0.00	
		Mile			0.00		0.00		0.00	
27.25	R/W Monumentation									
		Point			0.00		0.00		0.00	
27.26	Line Cutting									
		Mile			0.00					
27.27	Work Zone Safety									
			10	0.125	1.25					
27.28	Vegetation Survey									
		LS							0	
27.29	Tree Survey									
		LS							0	
27.30	Miscellaneous Surveys									
					0.00		0.00		0.00	
Survey Subtotal				**Crew Days**	**11**	**Field Support Hours**	**19**	**Office Support Hours**	**29**	
27.31	Supplemental Surveys									THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT SURVEYOR
				11	0		0		0	

28. Survey (SUE)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.32	Document Research	Units								
			0.00						0	
27.33	Field Reviews	Units								
			0.00						0	
27.34	Technical Meetings	LS								
			0.00						0	
27.35	Quality Assurance / Quality Control	LS								
								7%	2	
27.36	Supervision	LS								
								5%	2	
27.37	Coordination	LS								
								3%	1	
		27. Survey Total		**Crew Days**	**11.3**	**Field Support Hours**	**19**	**Office Support Hours**	**34**	

SPLS =
PLS =
Office Support =
Total Hours = 53

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number	Comments
Kickoff Meeting with FDOT	EA	0	0	0		0	
Baseline Approval Review	EA	0	0	0		0	
Network Control Review	EA	0	0	0		0	
Vertical Control Review	EA	0	0	0		0	
Local Governments (cities, counties)	EA	0	0	0		0	
Final Submittal Review	EA	0	0	0		0	
Other Meetings	EA	0	0	0		0	
Subtotal Technical Meetings				**0**	**Subtotal PM Meetings**	0	
Progress Meetings (if required by FDOT)	EA	0	0	0	**	- -	
Phase Review Meetings	EA	0	0	0	**	- -	
Total Meetings				**0**	**Total PM Mtgs (carries to Tab 3)**	**0**	

Carries to 27.34 | Carries to Tab 3

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

35. Geotechnical

Estimator:

THEA/CSX RR Track Removal from Cumberland Ave. to N. of Twiggs St.
001-202126.02

Representing	Print Name	Signature / Date
THEA		
AREHNA		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
	Roadway					
35.1	Document Collection and Review	LS	1	4	4	
35.2	Develop Detailed Boring Location Plan	LS	1	1	1	Services will consist of up to 18 hand auger borings to a depth of 6 ft along the accessible areas of RR Track removal corridor. The borings will be performed at an approximea inerval of every 200 feet along the corridor. (18 x 6' HA borings = 108 LF)
35.3	Stake Borings/Utility Clearance	Boring	18	0.4	7	18 x 6 ft HA Borings = 108 LF
35.4	Muck Probing	Crew Day	0	0	0	
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	0	0	0	
35.6	Drilling Access Permits	Location	0	0	0	
35.7	Property Clearances	EA	8	0.25	2	
35.8	Groundwater Monitoring	EA	0	0	0	
35.9	LBR/Resilient Modulus Sampling	EA	5	1.5	8	Collect 5 Bulk Samples for Resilient Modulus Testing along the accessible areas of the RR Track Removal corridor. Transport the samples to the State Materials Office for testing.
35.10	Coordination of Field Work	100 lf of boring	1.08	1	1	18 x 6 ft HA Borings = 108 LF
35.11	Soil and Rock Classification - Roadway	100 lf of boring	1.08	2	2	18 x 6 ft HA Borings = 108 LF
35.12	Design LBR	LS	1	0	0	Only if LBR tests are required
35.13	Laboratory Data	100 lf of boring	1.08	1	1	18 x 6 ft HA Borings = 108 LF
35.14	Seasonal High Water Table	Boring	18	0.5	9	18 x 6 ft HA Borings = 108 LF
35.15	Parameters for Water Retention Areas	EA	0	0	0	
35.16	Delineate Limits of Unsuitable Material	Cross-section	0	0	0	
35.17	Electronic Files for Cross-Sections	100 lf of boring	0	0	0	Duplication of Roadway Effort?
35.18	Embankment Settlement and Stability	Embankment Boring	0	0	0	
35.19	Monitor Existing Structures	LS	1	0	0	

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	Duplication of Drainage Effort?
35.21	Geotechnical Recommendations	LS	1	0	0	
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	1	0	0	
35.23	Preliminary Roadway Report	LS	1	0	0	
35.24	Final Report	EA	0	0	0	
35.25	Auger Boring Drafting	100 lf boring	1.08	5	5	18 x 6 ft HA Borings = 108 LF
35.26	SPT Boring Drafting	100 lf boring	0	0	0	
				Roadway Geotechnical Subtotal	**40**	
	Structures					
35.27	Develop Detailed Boring Location Plan	LS	1	0	0	
35.28	Stake Borings/Utility Clearance	Boring	0	0	0	
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	0	0	0	
35.30	Drilling Access Permits	Location	0	0	0	
35.31	Property Clearances	EA	0	0	0	
35.32	Collection of Corrosion Samples	EA	0	0	0	
35.33	Coordination of Field Work	100 lf of boring	0	0	0	
35.34	Soil and Rock Classification - Structures	100 lf of boring	0	0	0	
35.35	Tabulation of Laboratory Data	100 lf of boring	0	0	0	
35.36	Estimate Design Groundwater Level for Structures	EA	0	0	0	
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	0	0	0	
35.38	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	0	0	0	See Basis for reducing by 35.35
35.39	Bridge Construction and Testing Recommendations	Bridge boring	0	0	0	
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	Duplication of Structural Effort?
35.41	Walls	Wall Boring	0	0	0	
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	0	0	0	Duplication of Structural Effort?
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	0	0	0	

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.44	Box Culvert Analysis	EA	0	0	0	
35.45	Preliminary Report - BDR	EA	0	0	0	
35.46	Final Report - Bridge and Associated Walls	EA	0	0	0	
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	0	0	0	
35.48	SPT Boring Drafting	100 lf of boring	0	0	0	
35.49	Other Geotechnical	LS	1	0	0	
				Structural Geotechnical Subtotal	**0**	
				Geotechnical Technical Subtotal	**40**	
35.50	Technical Special Provisions and Modified Special Provisions	EA	0	0	0	
35.51	Field Reviews	LS	1	0	0	
35.52	Technical Meetings	LS	1	4	4	Meetings listed below
35.53	Quality Assurance/Quality Control	LS	%	7%	3	
35.54	Supervision	LS	%	5%	2	
				Geotechnical Nontechnical Subtotal	**9**	
35.55	Coordination	LS	%	3%	1	
				35. Geotechnical Total	**50**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0			0
Boring Layout Approval	EA	1	1	1		yes	1
Attend in BDR Review Meeting	EA	0	0	0			0
30/60/90% Submittal Review	EA	0	0	0			0
Other Meetings	EA	1	1	1		yes	1
Subtotal Technical Meetings				**2**	**Subtotal Project Manager Meetings**		2
Progress Meetings (if required by FDOT)	EA	2	1	2	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				**4**	**Total Project Manager Meetings (carries to Tab 3)**		**2**

Carries to 35.52

Carries to Tab 3

SCOPE OF SERVICES
TAMPA HILLSBOROUGH EXPRESSWAY AUTHORITY
Selmon Expressway Pavement Evaluation
THEA Project No.: TBD

I. OBJECTIVES

The Tampa Hillsborough Expressway Authority (THEA) requires Professional Services to evaluate the Selmon Expressway (Expwy.) mainline pavement, both eastbound and westbound travel directions, from Maydell Drive to east of the Tampa Bypass Canal. The evaluation will determine the extent of pavement delamination and subsurface distresses with attributable causes. The CONSULTANT shall develop design documents, contract plans, specifications and detailed cost estimates to address pavement remediation within the distressed areas. These contract documents will be used to bid the project and by the successful contractor to build the project, and by THEA and its Construction Engineering & Inspection (CEI) CONSULTANT for inspection and final acceptance of the project.

II. PROJECT DESCRIPTION

The CONSULTANT shall prepare construction plans to restore the existing pavement to support extending the pavement service life. The project begins at the eastern bridge limit for the Selmon Expwy. and Maydell Drive crossing and ends nearly 1,500-feet east of the Tampa Bypass Canal.

The CONSULTANT shall investigate the existing pavement along the Selmon Expwy. mainline for both the eastbound and westbound travel lanes to determine the extent of pavement delamination and subsurface distresses with attributable causes. The CONSULTANT shall prepare a Design Technical Memorandum which summarizes the pavement evaluation with recommendations for remediation to restore the existing pavement to acceptable standards.

The CONSULTANT shall coordinate with THEA for all recommendations for pavement remediation prior to the development of contract plans and specifications.

The CONSULTANT shall prepare plans, typical sections, pavement designs, temporary traffic control plans, drainage, base clearance, and geotechnical investigations and specification package.

III. ANALYSIS AND PLANS

Submit Phase II (60%) and Phase IV (100%) and Final plans. The CONSULTANT shall deliver final contract plans and documents in digital format. The final contract plans and documents shall be digitally signed and sealed files delivered to THEA on acceptable electronic media, as determined by the THEA.

Prepare a Typical Section Package to identify pavement remediation limits as a result of coordinating the Design Technical Memorandum and recommendations with THEA.

Prepare construction cost estimates when scope changes occur and/or at milestones of the project.

Prepare the Specification Package consistent with the FDOT's Standard Specifications for Road and Bridge Construction and the workbook of implemented modifications.

Provide proposed Pavement Designs prior to the Phase II plans submittal date. Pavement cores will be performed along the Selmon Expwy. to support the pavement design evaluation.

Prepare a safe and effective temporary traffic control design and prepare temporary traffic control plans. Coordinate with THEA for temporary restrictions along the Selmon Expwy. in order to maintain acceptable operations, as determined by THEA.

Prepare Roadway, Traffic Control, Signing and Pavement Markings Sheets, plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction:

- Key Sheet
- Typical Section Sheets
- General Notes
- Project Layout
- Summary of Quantities
- Plan Sheets
- Cross Section Pattern Sheet
- Roadway Soil Survey Sheet
- Cross Sections
- Erosion Control Plan Sheets
- SWPPP Sheets
- Temporary Traffic Control Plan Sheets
- Signing and Pavement Marking Sheets

Evaluate and address drainage to determine attributable causes for pavement distresses associated with seasonal high ground water and the geotechnical investigation.

Prepare plans and complete associated tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums. The pavement markings will be replaced to match the existing conditions.

Existing survey data and information will be provided by THEA to support all necessary design services for this project.

Perform a geotechnical investigation including a determination of LBR values, existing groundwater elevations and an estimate of the seasonal highwater table. All work performed by the CONSULTANT shall be in accordance with FDOT standards. Prepare a preliminary geotechnical report summarizing the results of the auger boring program, laboratory test results on the soil samples, groundwater table data and estimated seasonal high groundwater table. The geotechnical report will include a Pavement Conditions Survey, Pavement Evaluation, and a Roadway Soil Survey plan sheet will be provided with the construction plans.

IV. PROJECT SCHEDULE

Within ten (10) days after the Notice-To-Proceed, and prior to the CONSULTANT beginning work, provide a detailed project activity/event schedule for THEA and CONSULTANT scheduled activities.

V. QUALITY CONTROL

The CONSULTANT shall be responsible for ensuring that all work products conform to FDOT standards and criteria. This shall be accomplished through an internal Quality Control (QC) process performed by the CONSULTANT. This QC process shall ensure that quality is achieved through checking, reviewing, and surveillance of work activities by objective and qualified individuals who were not directly responsible for performing the initial work.

VI. PROGRESS MEETINGS

Progress Meetings will be held monthly and any unscheduled meetings as necessary. Within ten (10) days after the Notice to Proceed, the CONSULTANT shall provide a schedule of calendar deadlines in a format prescribed by the THEA.

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: THEA Selmon Expressway Pavement Evaluation
County: Hillsborough
FPN: 001-202126.02
FAP No.: N/A

Consultant Name: Kisinger Campo & Associates
Consultant No.: N/A
Date: 12/6/2021
Estimator: Branan Anderson, PE

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Chief Engineer	Senior Engineer 2	Senior Engineer 1	Engineer 2	Engineer 1	Engineering Intern	Senior Designer					SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$240.72	$266.02	$233.62	$226.77	$201.75	$143.98	$119.57	$128.47							
3. Project General and Project Common Tasks	147	37	3	0	15	18	29	37	9	0	0	0	0	148	$26,493	$179.01
4. Roadway Analysis	543	11	11	11	65	87	109	217	33	0	0	0	0	543	$86,316	$158.96
5. Roadway Plans	199	4	4	4	24	32	40	80	12	0	0	0	0	197	$31,726	$161.05
6a. Drainage Analysis	69	1	1	1	8	11	14	28	4	0	0	0	0	69	$10,651	$154.37
6b. Drainage Plans	27	1	1	1	3	4	5	11	2	0	0	0	0	29	$4,520	$155.85
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.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	32	1	1	1	4	5	6	13	2	0	0	0	0	32	$5,331	$166.61
20. Signing & Pavement Marking Plans	29	1	1	1	3	5	6	12	2	0	0	0	0	29	$4,985	$171.90
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. Survey (SUE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	1,046	56	22	19	122	162	209	398	64	0	0	0	0	1,047		
Total Staff Cost		$13,480.32	$5,852.44	$4,438.78	$27,665.94	$32,683.50	$30,091.82	$47,588.86	$8,222.08	$0.00	$0.00	$0.00	$0.00		**$170,023.74**	**$162.39**

Check = $170,023.74

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:						$170,023.74
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
SUBTOTAL ESTIMATED FEE:						**$170,023.74**
Subconsultant:	AREHNA					$13,537.71
Subconsultant:						$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
Subconsultant:	0					$0.00
SUBTOTAL ESTIMATED FEE:						**$183,561.45**
Geotechnical Field and Lab Testing						$16,222.00
SUBTOTAL ESTIMATED FEE:						**$199,783.45**
Optional Services						$0.00
GRAND TOTAL ESTIMATED FEE:						**$199,783.45**

ESTIMATE OF WORK EFFORT AND COST - AREHNA

Name of Project:	THEA Selmon Expressway Pavement Evaluation	Consultant Name:	AREHNA
County:	Hillsborough	Consultant No.:	N/A
FPN:	001-202126.02	Date:	12/6/2021
FAP No.:	N/A	Estimator:	Kirk Eastman, PE

Staff Classification	Total Staff Hours From "SH Summary - Firm"	MAT CADD/ Computer Designer	MAT Engineer	MAT Engineer Intern	MAT Engineering Technician	MAT Principal Engineer	MAT Secretary/ Clerical	MAT Senior Engineer	MAT Senior Engineering Technician	#REF!	#REF!	#REF!	#REF!	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$95.26	$115.32	$97.67	$47.63	$207.52	$64.75	$156.23	$75.91	$0.00	$0.00	$0.00	$0.00			
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.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
25. Landscape 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. Survey (SUE)	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	131	14	33	40	13	3	0	14	14	0	0	0	0	131	$13,538	$103.34
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	131	14	33	40	13	3	0	14	14	0	0	0	0	131		
Total Staff Cost		$1,333.64	$3,805.56	$3,906.80	$619.19	$622.56	$0.00	$2,187.22	$1,062.74	$0.00	$0.00	$0.00	$0.00		**$13,537.71**	**$103.34**

Notes:

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

					Check =	$13,537.71
SALARY RELATED COSTS:						$13,537.71
OVERHEAD:		0%				$0.00
OPERATING MARGIN:		0%				$0.00
FCCM (Facilities Capital Cost Money):		0.00%				$0.00
EXPENSES:		0.00%				$0.00
SUBTOTAL ESTIMATED FEE:						**$13,537.71**
Survey (Field)		4-person crew days @	-	/ day		$0.00
Geotechnical Field and Lab Testing						$16,222.00
SUBTOTAL ESTIMATED FEE:						**$29,759.71**
Optional Services						$0.00
GRAND TOTAL ESTIMATED FEE:						**$29,759.71**

Project Activity 3: General Tasks

Estimator: Branan Anderson, KCA

THEA Selmon Expressway Pavement Evaluation
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA	**Branan Anderson, PE**	

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	N/A
3.1.2	Notifications	LS	1	0	0	N/A
3.1.3	Preparing Mailing Lists	LS	1	0	0	N/A
3.1.4	Median Modification Letters	LS	1	0	0	N/A
3.1.5	Driveway Modification Letters	LS	1	0	0	N/A
3.1.6	Newsletters	LS	1	0	0	N/A
3.1.7	Renderings and Fly Throughs	LS	1	0	0	N/A
3.1.8	PowerPoint Presentation	LS	1	0	0	N/A
3.1.9	Public Meeting Preparations	LS	1	0	0	N/A
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	N/A
3.1.11	Other Agency Meetings	LS	1	0	0	N/A
3.1.12	Web Site	LS	1	0	0	N/A
	3.1 Public Involvement Subtotal				**0**	
3.2	Joint Project Agreements	EA	0	0	0	N/A
3.3	Specifications & Estimates					
3.3.1	Specifications Package Preparation	LS	1	24	24	
3.3.2	Estimated Quantites Report Preparation	LS	1	0	0	N/A
3.4	Contract Maintenance and Project Documentation	LS	1	60	60	Initial setup: 16 hrs Montly project maintenance (progress reports, schedule updates, & THEA coordination): 5 hrs/month; 8 month design schedule = 40 hrs Final project documentation: 4 hrs Total: **60 hrs**
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	15	15	See listing below
3.7	Plans Update	LS	1	0	0	N/A

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	40	40	Assuming 2 revisions @ 8 hrs/revision = 16 hrs Engineering Assistance (General Coordination, RFM's & RFI coordination): 5 units @ 4 hrs/unit = 20 hrs Meeting Attendance, Includes Pre-Bid/Pre-Con meetings, meeting with THEA: 2 meetings @ ((1.0 hrs/meeting) x 2 staff): 4 hrs Total: **40 hrs**
3.9	Digital Delivery	LS	1	8	8	KCA: 2 hrs initial setup and sign by first EOR 3 hrs x 3 additional signatures (drainage, signing and pavement marking, and geotechnical) = 6 hrs Total: **8 hrs**
3.10	Risk Assessment Workshop	LS	1	0	0	N/A
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	N/A
3.11.1	Aeronautical Evaluation	LS	1	0	0	N/A
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	N/A
3.13	Other Project General Tasks	LS	1	0	0	N/A
3. Project Common and Project General Tasks Total					**147**	

3.6 - List of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis	EA	4	1	4	Carried from Roadway
Drainage	EA	0	0	0	
Utilities	EA	0	0	0	
Environmental	EA	0	0	0	
Structures	EA	0	0	0	
Signing & Pavement Marking	EA	0	0	0	
Signalization	EA	0	0	0	
Lighting	EA	0	0	0	
Landscape Architecture	EA	0	0	0	
Survey	EA	0	0	0	
Photogrammetry	EA	0	0	0	
ROW & Mapping	EA	0	0	0	
Terrestrial Mobile LiDAR	EA	0	0	0	
Architecture	EA	0	0	0	
Noise Barriers	EA	0	0	0	
ITS Analysis	EA	0	0	0	
Geotechnical	EA	1	1	1	Carried from Geotechnical
Progress Meetings	EA	8	1	8	Monthly progress meeting - 8 month design schedule
Phase Reviews	EA	2	1	2	Phone call with HNTB
Field Reviews	EA	0	0	0	
Total Project Manager Meetings		15		15	Total PM Meeting Hours carries to Task 3.6 above

Project Activity 4: Roadway Analysis

Estimator: Branan Anderson, KCA

THEA Selmon Expressway Pavement Evaluation
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA	**Branan Anderson, PE**	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	24	24	Prepare Typical Section Package - identify areas for pavement remediation
4.2	Pavement Type Selection Report	LS	1	0	0	N/A
4.3	Pavement Design Package	LS	1	40	40	Data Collection to include pavement cores. Assume 2 pavement designs; 1 deep mill (black base); 1 water resilient subbase material
4.4	Cross-Slope Correction	LS	1	0	0	N/A
4.5	Horizontal /Vertical Master Design Files	LS	1	80	80	Below Low range complexity: 100 hrs/mile 0.80 miles (EB/WB Selmon Mainline; Assume 40% of pavement requires remediation) Total: 100 hrs/mile x 0.8 mile = **80 hrs**
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
4.9	Cross Section Design Files	LS	1	40	40	25 hrs/mile (low range project; recommend 50' spacing within short remediation areas) = 0.8 miles x (25 hrs/mile x 2) = **40 hrs**
4.10	Temporary Traffic Control Plan Analysis	LS	1	68	68	Level II Analysis; Lane closure analysis (Off Peak); Assume full depth milling; Full TTCP with temporary pavement for diversion 3 phases: 20 hrs per phase = 20 hrs x 3 phases = 60 hrs Temporary Drainage: 8 hrs **Total:** 60 + 8 = **68 hrs**
4.11	Master TTCP Design Files	LS	1	77	77	Level II Analysis; Lane closure analysis (Off Peak); Layout for temporary diversion with temp pavement and temp barrier wall 32 hrs/mainline phase = 32 hrs x 3 phases = 96 hrs **Total**: 96 hrs/mile x 0.8 miles = **77 hrs**
4.12a	Selective Clearing and Grubbing of Existing VegetationField 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

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.13	Tree Dispostion 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	40	40	Includes Design Tehcnical Memorandum to summarize pavement evaluation, geotech, SHGW, base clearance, costs, and recommendations for remediation
4.16	Quantities	LS	1	60	60	Includes all work for quantity take offs, tabulation of summary of quantities and pay items, estimation of construction days
4.17	Cost Estimate	LS	1	24	24	Engineer's Estimate using FDOT's historical cost and PH II quantities - 20 hrs; 4 hr update for Final Plans Engineer's Estimate: **24 hrs**
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
4.19	Other Roadway Analyses	LS	1	0	0	N/A
Roadway Analysis Technical Subtotal					**453**	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	8	8	1 Roadway design field review 2 staff x 4 hours/field review = **8 hrs**
4.21	Monitor Existing Structures	LS	1	0	0	N/A
4.22	Technical Meetings	LS	1	11	11	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	7%	32	
4.24	Independent Peer Review	LS	%	0%	0	N/A
4.25	Supervision	LS	%	5%	23	
				Roadway Analysis Nontechnical Subtotal	**74**	
4.26	Coordination	LS	%	3%	16	
				4. Roadway Analysis Total	**543**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0	N/A	no	0
Pavement	EA	1	3	3	1 staff x (1 hr mtg + 1 hr prep + 1 hr mtg minutes) =**3 hrs**	yes	1
Access Management	EA	0	0	0	N/A	no	0
15% Line and Grade	EA	0	0	0	N/A	no	0
Driveways	EA	0	0	0	N/A	no	0
Local Governments (cities, counties, MPO)	EA	1	0	0	N/A	no	1
Work Zone Traffic Control	EA	1	3	3	1 staff x (1 hr mtg + 1 hr prep + 1 hr mtg minutes) =**3 hrs**	yes	1
30/60/90/100% Comment Review Meetings	EA	2	1	2	1 hr discussion with HNTB x 2 submittals =**2 hrs**	no	0
Other Meetings	EA	1	3	3	1 mtg with THEA to discuss Pavement Evaluation and findings included within Design Technical Memorandum	yes	1
Subtotal Technical Meetings				**11**	**Subtotal Project Manager Meetings**		4
Progress Meetings (if required by the County)	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				**11**	**Total Project Manager Meetings (carries to Tab 3)**		**4**

Carries to 4.22

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator: Branan Anderson, KCA

THEA Selmon Expressway Pavement Evaluation
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA	**Branan Anderson, PE**	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet	Sheet	1	8	8	
5.2	Typical Section Sheets					
5.2.1	Typical Sections	EA	3	6	18	Assume 2 remediation methods; 1 deep mill with black base; 1 water resilient base material; 1 milling and resurfacing
5.2.2	Typical Section Details	EA	1	4	4	1 pavement milling overlap detail - reduce future surface cracking at sawcut line
5.3	General Notes/Pay Item Notes	Sheet	1	8	8	
5.4	Project Layout	Sheet	1	4	4	Map showing track removal, alignment, and sheet layout
5.5	Plan/Profile Sheet	Sheet	0	0	0	N/A
5.6	Profile Sheet	Sheet	0	0	0	N/A
5.7	Plan Sheet	Sheet	4	4	16	1" = 100' @ 4 sheets
5.8	Special Profile	Sheet	0	0	0	N/A
5.9	Back-of-Sidewalk Profile Sheet	Sheet	0	0	0	N/A
5.10	Interchange Layout Sheet	Sheet	0	0	0	N/A
5.11	Ramp Terminal Details (Plan View)	Sheet	0	0	0	N/A
5.12	Intersection Layout Details	Sheet	0	0	0	N/A
5.13	Special Details	EA	0	0	0	N/A
5.14	Cross-Section Pattern Sheets	Sheet	1	4	4	1" = 400' @ 1 sheet
5.15	Roadway Soil Survey Sheets	Sheet	1	1	1	Furnished by AREHNA

Project Activity 5: Roadway Plans

Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.16	Cross Sections	EA	85	0.5	43	Project length: 0.8 miles = 4,224' @ 50' spacing = 85 sections 85 sections x 0.5 hr/section = **43 hrs**
5.17	Temporary Traffic Control Plan Sheets	Sheet	12	4	48	1" = 100' @ 3 phases: 4 sheets x 3 phases = 12 sheets x 4 hrs/sht = **48 hrs**
5.18	Temporary Traffic Control Cross Section Sheets	EA	0	0	0	N/A
5.19	Temporary Traffic Control Detail Sheets	Sheet	3	8	24	1 general notes sheets 1 phase note sheet 1 advance warning layout sheet Total: 3 sheets x 8 hrs/sht = **24 hrs**
5.20	Utility Adjustment Sheets	Sheet	0	0	0	N/A
5.21	Selective Clearing and Grubbing Sheets					
5.21.1	Selective Clearing and Grubbing	Sheet	0	0	0	N/A
5.21.2	Selective Clearing and Grubbing Details	Sheet	0	0	0	N/A
5.22	Tree Disposition Sheets					
5.22.1	Tree Disposition Plan Sheets	Sheet	0	0	0	N/A
5.22.2	Tree Disposition Plan Tables and Schedules	Sheet	0	0	0	N/A
5.23	Project Control Sheets	Sheet	0	0	0	N/A
5.24	Environmental Detail Sheets	Sheet	0	0	0	N/A
5.25	Utility Verification Sheets (SUE Data)	Sheet	0	0	0	N/A
Roadway Plans Technical Subtotal					**178**	
5.26	Quality Assurance/Quality Control	LS	%	7%	12	
5.27	Supervision	LS	%	5%	9	
5. Roadway Plans Total					**199**	

Project Activity 6a: Drainage Analysis

Estimator:

THEA Selmon Expressway Pavement Evaluation
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	0	0	0	N/A
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	0	0	0	N/A
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	EA	0	0	0	N/A
6a.10	Optional Culvert Material	EA	0	0	0	N/A
6a.11	French Drain Systems	Per Cell	0	0	0	N/A
6a.11.1	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	0	0	0	N/A
6a.14	Bridge Hydraulic Report	EA	0	0	0	N/A

Project Activity 6a: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	1	12	12	
6a.16	Quantities	LS	1	2	2	
6a.17	Cost Estimate	LS	1	4	4	Includes cost evaluation to be incldued within Design Technical Memorandum
6a.18	Technical Special Provisions / Modified Special Provisions	LS	1	0	0	N/A
6a.19	Hydroplaning Analysis	LS	1	0	0	N/A
6a.20	Existing Permit Analysis	LS	0	0	0	N/A
6a.21	Other Drainage Analysis	LS	1	40	40	Includes Seasonal High Ground Water / Base Clearance Evaluation; Coordination with geotech for subsurface water encroachment into roadway subgrade; Documentation within Design Technical Memorandum
6a.22	Noise Barrier Evaluation	LS	1	0	0	N/A
Drainage Analysis Technical Subtotal					**58**	
6a.23	Field Reviews	LS	0	0	0	N/A
6a.24	Technical Meetings	LS	1	2	2	Meetings are listed below
6a.25	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.26	Quality Assurance/Quality Control	LS	%	7%	4	
6a.27	Independent Peer Review	LS	%	0%	0	N/A
6a.28	Supervision	LS	%	5%	3	
Drainage Analysis Nontechnical Subtotal					**9**	
6a.29	Coordination	LS	%	3%	2	
6a. Drainage Analysis Total					**69**	

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		no	0
Agency	EA	0	0	0		no	0
Local Governments (cities, counties)	EA	0	0	0		no	0
County Drainage	EA	0	0	0			0
Other Meetings	EA	1	2	2	1 mtg with THEA to discuss Pavement Evaluation and findings included within Design Technical Memorandum	no	0
Subtotal Technical Meetings				**2**			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				**2**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to 6a.24

Carries to Tab 3

6b. Drainage Plans

Estimator:

THEA Selmon Expressway Pavement Evaluation
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (Including Interchanges)	Sheet	0	0	0	N/A
6b.2	Bridge Hydraulics Recommendation Sheets	Sheet	0	0	0	N/A
6b.3	Drainage Structures	LS	0	0	0	N/A
6b.4	Lateral Ditch Plan/Profile	Sheet	0	0	0	N/A
6b.5	Lateral Ditch Cross Sections	EA	0	0	0	N/A
6b.6	Retention/Detention Ponds Detail Sheets	Sheet	0	0	0	N/A
6b.7	Retention Pond Cross Sections	EA	0	0	0	N/A
6b.8	Erosion Control Plan Sheets	Sheet	4	3	12	
6b.9	SWPPP Sheets	Sheet	2	6	12	
				Drainage Plans Technical Subtotal	**24**	
6b.10	Quality Assurance/Quality Control	LS	%	7%	2	
6b.11	Supervision	LS	%	5%	1	
				6. Drainage Plans Total	**27**	

Project Activity 19: Signing and Pavement Marking Analysis

Estimator:

THEA Selmon Expressway Pavement Evaluation
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA		

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	N/A
19.2	No Passing Zone Study	LS	1	0	0	N/A
19.3	Signing and Pavement Marking Master Design File	LS	1	20	20	
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	N/A
19.5	Sign Panel Design Analysis	EA	1	0	0	N/A
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	N/A
19.7	Quantities	LS	1	4	4	
19.8	Cost Estimate	LS	1	4	4	
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
19.10	Other Signing and Pavement Marking	LS	1	0	0	N/A
Signing and Pavement Marking Analysis Technical Subtotal					**28**	
19.11	Field Reviews	LS	1	0	0	
19.12	Technical Meetings	LS	1	0	0	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	7%	2	
19.14	Independent Peer Review	LS	%	0%	0	N/A
19.15	Supervision	LS	%	5%	1	
Signing and Pavement Marking Analysis Nontechnical Subtotal					**3**	
19.16	Coordination	LS	%	3%	1	
19. Signing and Pavement Marking Analysis Total					**32**	

Project Activity 19: Signing and Pavement Marking Analysis

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**
Sign Panel Design		EA	0	0	0			0
Queue Length Analysis		EA	0	0	0			0
Local Governments (cities, counties)		EA	0	0	0			0
Other Meetings		EA	0	0	0			0
Subtotal Technical Meetings					**0**		**Subtotal Project Manager Meetings**	0
Progress Meetings (if required by FDOT)		EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		- -
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 19.12

Carries to Tab 3

Project Activity 20: Signing and Pavement Marking Plans

Estimator: Fathy Abdalla

THEA Selmon Expressway Pavement Evaluation
001-202126.02

Representing	Print Name	Signature / Date
THEA		
KCA		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet	Sheet	1	4	1	4	
20.2	General Notes/Pay Item Notes	Sheet	1	6	1	6	
20.3	Project Layout	Sheet	0	0	0	0	N/A
20.4	Plan Sheet	Sheet	4	4	4	16	
20.5	Typical Details	EA	0	0		0	N/A
20.6	Guide Sign Worksheets	EA	0	0		0	N/A
20.7	Traffic Monitoring Site	EA	0	0		0	N/A
20.8	Cross Sections	EA	0	0		0	N/A
20.9	Special Service Point Details	EA	0	0		0	N/A
20.10	Special Details	LS	0	0		0	N/A
20.11	Interim Standards	LS	0	0		0	N/A
Signing and Pavement Marking Plans Technical Subtotal					**6**	**26**	
20.12	Quality Assurance/Quality Control	LS	%	7%		2	
20.13	Supervision	LS	%	5%		1	
20. Signing and Pavement Marking Plans Total					**6**	**29**	

35. Geotechnical

Estimator:

THEA Selmon Expressway Pavement Evaluation
001-202126.02

Representing	Print Name	Signature / Date
THEA		
AREHNA		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
	Roadway					
35.1	Document Collection and Review	LS	1	4	4	
35.2	Develop Detailed Boring Location Plan	LS	1	1	1	THe project alignment extends along Selmon Mainline from Maydell Drive to the Tampa Bypass Canal crossing (0.75 miles) and an additioanl 1,500 feet from east of S. 78th St. (Project Length Total = 1 mile). Services will consist of 30 pavement cores along the EB and WB lanes. Fifteen cores will be performed in the EB lanes and fifteen in the WB lanes. In addition, 30 hand auger borings to a depth o 6 ft are proposed adjacent to the EB and WB lanes. Fifteen borings will be performed adjacent to the EB shoulders and an additional fifteen borings adjacemt to the WB lanes (30 x 6' HA = 180 LF). Som of the borings may instead be performed within the pavement core holes. For the development of staff hours, it is assumed each pavement core is a hand auger boring. (60 x 6' HA borings = 360 LF)
35.3	Stake Borings/Utility Clearance	Boring	60	0.4	24	60 x 6 ft HA Borings = 360 LF
35.4	Muck Probing	Crew Day	0	0	0	
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	4	4	16	MOT for each pavement core location.
35.6	Drilling Access Permits	Location	3	2	6	
35.7	Property Clearances	EA	0	0	0	
35.8	Groundwater Monitoring	EA	0	0	0	
35.9	LBR/Resilient Modulus Sampling	EA	0	0	0	
35.10	Coordination of Field Work	100 lf of boring	3.6	1	4	60 x 6 ft HA Borings = 360 LF
35.11	Soil and Rock Classification - Roadway	100 lf of boring	3.6	2	7	60 x 6 ft HA Borings = 360 LF
35.12	Design LBR	LS	1	0	0	Only if LBR tests are required
35.13	Laboratory Data	100 lf of boring	1.8	1	2	30 x 6 ft HA Borings = 180 LF
35.14	Seasonal High Water Table	Boring	30	0.5	15	30 x 6 ft HA Borings = 180 LF
35.15	Parameters for Water Retention Areas	EA	0	0	0	
35.16	Delineate Limits of Unsuitable Material	Cross-section	0	0	0	
35.17	Electronic Files for Cross-Sections	100 lf of boring	0	0	0	Duplication of Roadway Effort?

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.18	Embankment Settlement and Stability	Embankment Boring	0	0	0	
35.19	Monitor Existing Structures	LS	1	0	0	
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	Duplication of Drainage Effort?
35.21	Geotechnical Recommendations	LS	1	0	0	
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	1	24	24	
35.23	Preliminary Roadway Report	LS	1	0	0	
35.24	Final Report	EA	0	0	0	
35.25	Auger Boring Drafting	100 lf boring	1.8	5	9	30 x 6 ft HA Borings = 180 LF
35.26	SPT Boring Drafting	100 lf boring	0	0	0	
				Roadway Geotechnical Subtotal	**112**	
	Structures					
35.27	Develop Detailed Boring Location Plan	LS	1	0	0	
35.28	Stake Borings/Utility Clearance	Boring	0	0	0	
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	0	0	0	
35.30	Drilling Access Permits	Location	0	0	0	
35.31	Property Clearances	EA	0	0	0	
35.32	Collection of Corrosion Samples	EA	0	0	0	
35.33	Coordination of Field Work	100 lf of boring	0	0	0	
35.34	Soil and Rock Classification - Structures	100 lf of boring	0	0	0	
35.35	Tabulation of Laboratory Data	100 lf of boring	0	0	0	
35.36	Estimate Design Groundwater Level for Structures	EA	0	0	0	
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	0	0	0	
35.38	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	0	0	0	See Basis for reducing by 35.35
35.39	Bridge Construction and Testing Recommendations	Bridge boring	0	0	0	
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	Duplication of Structural Effort?
35.41	Walls	Wall Boring	0	0	0	
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	0	0	0	Duplication of Structural Effort?

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	0	0	0	
35.44	Box Culvert Analysis	EA	0	0	0	
35.45	Preliminary Report - BDR	EA	0	0	0	
35.46	Final Report - Bridge and Associated Walls	EA	0	0	0	
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	0	0	0	
35.48	SPT Boring Drafting	100 lf of boring	0	0	0	
35.49	Other Geotechnical	LS	1	0	0	
				Structural Geotechnical Subtotal	**0**	
				Geotechnical Technical Subtotal	**112**	
35.50	Technical Special Provisions and Modified Special Provisions	EA	0	0	0	
35.51	Field Reviews	LS	1	0	0	
35.52	Technical Meetings	LS	1	5	5	Meetings listed below
35.53	Quality Assurance/Quality Control	LS	%	5%	6	
35.54	Supervision	LS	%	4%	4	
				Geotechnical Nontechnical Subtotal	**15**	
35.55	Coordination	LS	%	3%	4	
				35. Geotechnical Total	**131**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0			0
Boring Layout Approval	EA	1	1	1		yes	1
Attend in BDR Review Meeting	EA	0	0	0			0
30/60/90% Submittal Review	EA	0	0	0			0
Other Meetings	EA	1	1	1		no	0
Subtotal Technical Meetings				**2**		**Subtotal Project Manager Meetings**	1
Progress Meetings (if required by FDOT)	EA	1	2	2	PM attendance at Progress Meetings is manually entered on General Task 3		- -
Phase Review Meetings	EA	1	1	1	PM attendance at Phase Review Meetings is manually entered on General Task 3		- -
Total Meetings				**5**		**Total Project Manager Meetings (carries to Tab 3)**	**1**

Carries to 35.52

Carries to Tab 3

Report month: **Dec. 2021**

CONTRACT RENEWAL and EXPIRATION REPORT (> $50,000)

Project Manager	Firm	Description of Services	Contract Effective Date	Contract Expiration Date	Term of Contract (Years)	Bid / Renew / End
Brian Pickard	**A-Stellar Property Maintenance & Landscaping**	**Maintenance & Landscaping Services for THEA facilities including the TMC**	**07/01/17**	**06/30/22**	**5 Years + 2 additional one-year renewal option**	**Renew** (1st year renewal: July 2022 - June 2023)
Brian Pickard	**Ferrovial Services Infrastructure**	**Asset Maintenance Services for the Lee Roy Selmon Expressway**	**07/01/17**	**06/30/22**	**5 Years + 2 additional one-year renewal option**	**Renew** (1st year renewal: July 2022 - June 2023)
Rafael Hernandez	**Techstaff**	**Managed Services**	**7/1/2017**	**6/30/2022**	**3 Years + 2 additional one-year renewal option**	**Bid** (Services will be issued for competitive bid)

2022 Board Meeting Schedule

January		
1/18/2022	Board Workshop	1:30 p.m.
1/31/2022	Board Meeting	1:30 p.m.
February		
2/7/2022	Board Committees of the Whole Meeting	1:30 p.m.
2/21/2022	Board Meeting	1:30 p.m.
March		
3/14/2022	Board Committees of the Whole Meeting	1:30 p.m.
3/28/2022	Board Meeting	1:30 p.m.
April		
04/11/2022	Board Committees of the Whole Meeting	1:30 p.m.
04/25/2022	Board Meeting	1:30 p.m.
May		
05/09/2022	Board Committees of the Whole Meeting	1:30 p.m.
05/23/2022	Board Meeting	1:30 p.m.
June		
06/06/2022	Board Committees of the Whole Meeting	1:30 p.m.
06/20/2022	Board Meeting	1:30 p.m.
July		
07/11/2022	Board Committees of the Whole Meeting	1:30 p.m.
07/25/2022	Board Meeting	1:30 p.m.
August		
08/08/2022	Board Committees of the Whole Meeting	1:30 p.m.
08/22/2022	Board Meeting	1:30 p.m.
September		
09/12/2022	Board Committees of the Whole Meeting	1:30 p.m.
09/26/2022	Board Meeting	1:30 p.m.
October		
10/10/2022	Board Committees of the Whole Meeting	1:30 p.m.
10/24/2022	Board Meeting	1:30 p.m.
November		
11/14/2022	Board Meeting	1:30 p.m.
December		
12/12/2022	Board Meeting	1:30 p.m.

Note: Meetings of Committees as Whole will be held in the Expressway's 3rd floor conference room. Monthly Board meetings will be held in the Expressway's 1st floor Board room

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