

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MEMORANDUM

TO: CFX Board Members

FROM: Aneth Williams 
Director of Procurement

DATE: March 27, 2017

SUBJECT: Authorization for Approval of Supplemental Agreement No. 1
Dewberry Engineers, Inc.
S.R. 417 Widening from Econlockhatchee Trail to Seminole County Line
Project 417-134, Contract No. 001153

Board approval is requested for Supplemental Agreement No. 1 with Dewberry Engineers, Inc. in the not-to-exceed amount of \$416,197.12

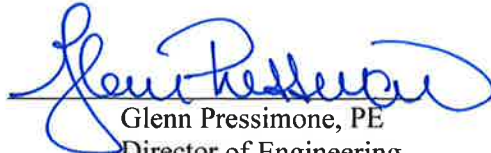
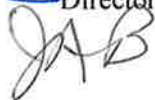
The northern limit of the current CFX design project (the Seminole County Line) adjoins the portion of S.R. 417 within the jurisdictional limits of Florida's Turnpike Enterprise (FTE). A widening of S.R. 417 to eight (8) lanes is contemplated by FTE in the future. For the mutual benefit of CFX and FTE customers traveling on S.R. 417 and to simplify the interface between CFX's current project and FTE's future project, FTE has requested that CFX enter into a Supplemental Agreement with Dewberry to provide additional design services related to proposed work within FTE's jurisdictional limits. Supplemental Agreement No. 1 includes all design related costs associated with this request from FTE.

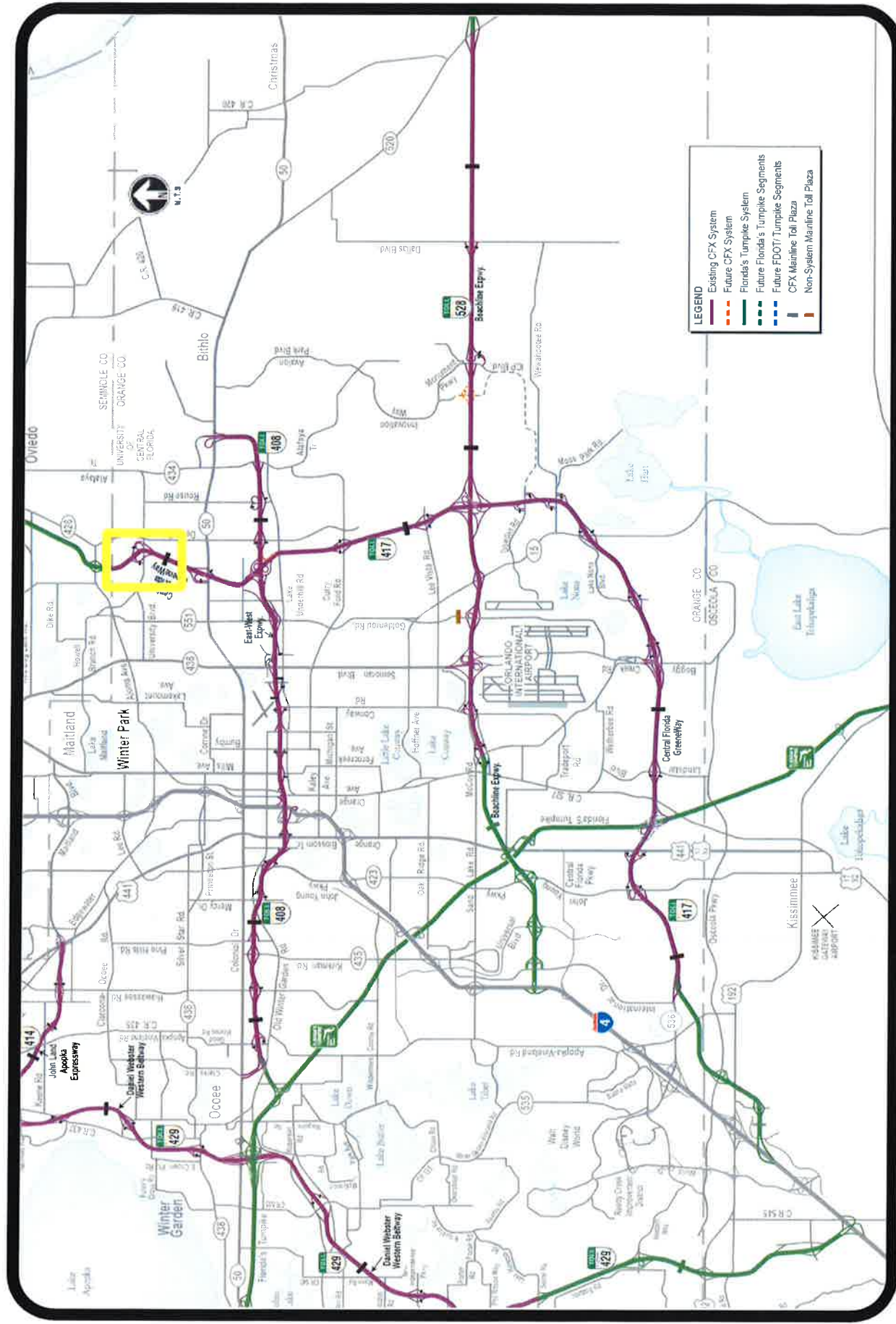
Reimbursement to CFX by FTE for all costs associated with Supplemental Agreement No. 1 is contemplated through a Reimbursement Agreement between CFX and FTE.

This Contract was previously approved by CFX for this project. (Original Agreement dated June 16, 2016)

Original Contract Amount	\$2,575,000.00
Amount of Supplemental Agreement No. 1	\$ 416,197.12
Total Revised Contract Amount	\$2,991,197.12

Reviewed by:


Glenn Pressimone, PE
Director of Engineering




Project Location Map for
S.R. 417 Widening from Econlockhatchee Trail to Seminole County Line (417-134)

SUPPLEMENTAL AGREEMENT NO. 1
TO
AGREEMENT FOR PROFESSIONAL SERVICES
FINAL DESIGN
S.R. 417 Widening from Econlockhatchee Trail
To Seminole County Line

THIS SUPPLEMENTAL AGREEMENT is made and entered into this _____ day of _____, 2017, by and between the CENTRAL FLORIDA EXPRESSWAY AUTHORITY, a corporate body and agency of the State of Florida, hereinafter called "CFX" and DEWBERRY ENGINEERS, INC., hereinafter called the "CONSULTANT".

WHEREAS, Articles 2.00 and 12.0 of the Agreement for Professional Services between CFX and the CONSULTANT, dated the 16th day of June 2016, provides that in the event that CFX shall change the amount of work in Exhibit "A" of the said Agreement for Professional Services, the fees to be paid to the CONSULTANT shall be subject to adjustment as shall be mutually agreed upon:

NOW, THEREFORE, BE IT RESOLVED THAT:

1. CFX hereby authorizes the CONSULTANT to proceed with additional services as outlined in the Consultant's April 3, 2017 correspondence to CFX, which is attached hereto and made a part of this Supplemental Agreement.

2. Exhibit "B", Article 2.00 of the Agreement for Professional Services is amended as follows:

- a. The Salary Related Costs are adjusted upward by \$303,429.87 to \$1,650,644.17.
- b. The Design Survey – Field (Prime) is adjusted upward by \$11,277.36 to \$159,136.08.
- c. The Direct Expenses (Lump Sum) remain unchanged at \$25,300.00.
- d. The Subcontract Items are adjusted upward by \$101,489.89 to \$929,353.81.
 - CES \$48,832.47
 - The Balmoral Group \$14,172.02
 - Tierra \$38,485.40
- e. The Allowance remains unchanged at \$226,763.06.

The total Maximum Limiting Amount is adjusted upward by \$416,197.12 to \$2,991,197.12.

3. The Department Funded Agreement between Florida's Turnpike Enterprise and the Central Florida Expressway Authority for Improvements to the Central Florida Greeneway (S.R. 417) from Econlockhatchee Trail to the Seminole County Line, CFX Project No. 417-134, CFX Contract No. 001153 will be referred to as the "CFX-FTE Agreement", which is attached hereto and made a part of this Supplemental Agreement. In accordance with the terms of the CFX-FTE Agreement, and for good and valuable consideration for the execution of this Supplemental Agreement, the CONSULTANT agrees that this Supplemental Agreement shall include the following additional provisions:

- a. Per paragraph 6.j. of the CFX-FTE Agreement, there shall be no reimbursement for travel expenses under this Supplemental Agreement.
- b. Per paragraph 6.k. of the CFX-FTE Agreement, if FTE or CFX determine that the performance of CONSULTANT is unsatisfactory, CFX shall notify CONSULTANT of the deficiency to be corrected, which correction shall be made within a time-frame to be specified by CFX. CONSULTANT shall, within five days after notice from CFX, provide CFX with a corrective action plan describing how CONSULTANT will address all issues of contract non-performance, unacceptable performance, failure to meet the minimum performance levels, deliverable deficiencies, or contract non-compliance. If the corrective action plan is unacceptable to CFX, CONSULTANT shall be assessed a non-performance retainage equivalent to 10% of the total invoice amount. The retainage shall be applied to the invoice for the then-current billing period. The retainage shall be withheld until CONSULTANT resolves the deficiency. If the deficiency is subsequently resolved, CONSULTANT may bill CFX for the retained amount during the next billing period. If CONSULTANT is unable to resolve the deficiency, the funds retained may be forfeited at the end of this Supplemental Agreement's term.
- c. In accordance with paragraph 6.o. of the CFX-FTE Agreement, records of costs incurred under the terms of this Supplemental Agreement shall be maintained and made available upon request to the CFX at all times during the period of this Supplemental Agreement and for three (3) years after final payment is made. Copies of these documents and records shall be furnished

to the CFX upon request. Records of costs incurred include CONSULTANT's general accounting records and the FTE Project records, together with supporting documents and records, of all subcontractors performing work on the FTE Project, and all other records of CONSULTANT and its subcontractors considered necessary by CFX for a proper audit of costs. (Section 287.058(4), F.S.).

- d. Per paragraph 8 of the CFX-FTE Agreement, CONSULTANT shall add FTE as an additional insured under the Commercial General Liability coverage and Business Automobile Liability Coverage insurance policies provided for in sections 16.1 and 16.2 of the Agreement for Professional Services in CFX Contract No. 001153, as provided by law. The insurance shall remain in effect until acceptance of the design work by FTE. Prior to commencement of the FTE Project and on such other occasions as CFX may reasonably require, CONSULTANT shall provide CFX with certificates documenting that the required insurance coverage is in place and effective.
- e. Per paragraph 9 of the CFX-FTE Agreement, to the extent that there are design professional services subject to Section 725.08, Florida Statutes, and notwithstanding the provisions of Section 725.06, Florida Statutes, CONSULTANT shall indemnify and hold harmless FTE and CFX, and their officers and employees, from liability, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of CONSULTANT and other persons employed or utilized by CONSULTANT

in the performance of this Supplemental Agreement. Nothing herein shall be construed to extend the limits of liability of CFX beyond that provided in Section 768.28, Florida Statutes. Nothing herein is intended as a waiver of CFX's sovereign immunity under Section 768.28, Florida Statutes. Nothing hereby shall inure to the benefit of any third party for any purpose, which might allow claims otherwise barred by sovereign immunity or operation of law. The parties shall notify each other in writing immediately upon becoming aware of such liabilities. CONSULTANT's inability to evaluate liability, or its evaluation of liability, shall not excuse performance of the provisions of this paragraph. The indemnities given by CONSULTANT in connection with the FTE Project shall survive termination of this Supplemental Agreement. The insurance coverage and limits required in this Supplemental Agreement may or may not be adequate to protect CFX or FTE and such insurance coverage shall not be deemed a limitation of the indemnities to CFX or FTE set forth in this Supplemental Agreement. The provisions of this paragraph shall survive the expiration or earlier termination of this Supplemental Agreement, in accordance with the laws of the State of Florida.

4. All provisions of said Agreement for Professional Services, or any Supplements thereto, not modified by the above, shall remain in full force and effect, the same as if they had been set forth herein. In the event of a conflict between the provisions of this Supplemental Agreement and of the said Agreement for Professional Services, or

any Supplements thereto, the provisions of this Supplemental Agreement, to the extent such provision is reasonable, shall take precedence.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed, in quadruplicate, the day and year first above written.

CENTRAL FLORIDA
EXPRESSWAY AUTHORITY

By: _____
Director of Procurement

DEWBERRY ENGINEERS, INC.

Attest: _____ By: _____
Title: Title:

Approved as to form and execution, only.

General Counsel for CFX

R:\Departments\Engineering\General\417-134\Supplemental Agreements\Dewberry 417-134_SA1.docx

**Attachment to Supplemental Agreement No.1
CFX Contract 001153**

**Negotiated Scope, Manhours and Fee between Florida's
Turnpike Enterprise and Dewberry for Supplemental
Agreement No.1 to CFX Contract 001153**

Glenn Pressimone

From: Knudsen, Kevin <kknudsen@Dewberry.com>
Sent: Monday, April 03, 2017 3:47 PM
To: Ambare, Snehal; Glenn Pressimone
Cc: Hustad, Marc; Shannon, Michael
Subject: RE: SR 417 (417-134) - Negotiated Scope, Manhours and Fee
Attachments: Mimecast Large File Send Instructions

I'm using Mimecast to share large files with you. Please see the attached instructions.

Please find attached the Concept Plan and Scope. Thanks.

Kevin E. Knudsen, P.E.
Vice President
Dewberry
800 N. Magnolia Ave., Suite 1000
Orlando, FL 32803
321.354.9646 Direct
407.649.8664 Fax
407.760.0321 Mobile
www.dewberry.com
kknudsen@dewberry.com

From: Glenn Pressimone [mailto:Glenn.Pressimone@CFXWay.com]
Sent: Monday, April 03, 2017 3:09 PM
To: Knudsen, Kevin <kknudsen@Dewberry.com>; Ambare, Snehal <Snehal.Ambare@dot.state.fl.us>
Cc: Hustad, Marc <Marc.Hustad@dot.state.fl.us>; Shannon, Michael <Michael.Shannon@dot.state.fl.us>
Subject: RE: SR 417 (417-134) - Negotiated Scope, Manhours and Fee

This message originated from outside your organization

Kevin,

Can you please also send me the final scope document and exhibit that go with the executed staffhour forms. These items need to be in the Board SA package.

Thanks,
-GP

Glenn M. Pressimone, P.E.
Director of Engineering
CENTRAL FLORIDA EXPRESSWAY AUTHORITY
4974 ORL Tower Rd.
Orlando, FL 32807
(o) 407.690.5321
(f) 407.690.5033
glenn.pressimone@cfxway.com

PLEASE NOTE: Florida has a very broad public records law (F. S. 119). All emails to and from the Expressway Authority are kept as a public record. Your email communications, including your email address, may be disclosed to the public and media at any time.

From: Knudsen, Kevin [<mailto:kknudsen@Dewberry.com>]
Sent: Monday, April 03, 2017 3:00 PM
To: Ambare, Snehal <Snehal.Ambare@dot.state.fl.us>
Cc: Hustad, Marc <Marc.Hustad@dot.state.fl.us>; Glenn Pressimone <Glenn.Pressimone@CFXWay.com>; Shannon, Michael <Michael.Shannon@dot.state.fl.us>
Subject: RE: SR 417 (417-134) - Negotiated Scope, Manhours and Fee

Snehal, please find attached the signed staffhour forms. Thanks for your help.

Kevin E. Knudsen, P.E.
Vice President
Dewberry
800 N. Magnolia Ave., Suite 1000
Orlando, FL 32803
321.354.9646 Direct
407.649.8664 Fax
407.760.0321 Mobile
www.dewberry.com
kknudsen@dewberry.com

From: Ambare, Snehal [<mailto:Snehal.Ambare@dot.state.fl.us>]
Sent: Friday, March 31, 2017 4:18 PM
To: Knudsen, Kevin <kknudsen@Dewberry.com>
Cc: Hustad, Marc <Marc.Hustad@dot.state.fl.us>; Glenn Pressimone (Glenn.Pressimone@CFXWay.com) <Glenn.Pressimone@CFXWay.com>; Shannon, Michael <Michael.Shannon@dot.state.fl.us>
Subject: RE: SR 417 (417-134) - Negotiated Scope, Manhours and Fee

This message originated from outside your organization

Kevin,

We have reviewed the updated scope and staffhours. I am sending you the FTE signed staffhours. Please sign and date the PDF and send it back to me for records.

I will be sending the file via FTA. Please confirm your receipt.

Thanks!
Snehal

Snehal Ambare
Project Manager

HNTB CORPORATION
Florida's Turnpike Milepost 263, Building 5315, Ocoee, FL 34761
Tel (407) 264-3414 | Fax (407) 822-5821 | Mobile (407) 453-8422

Snehal.Ambare@dot.state.fl.us

From: Knudsen, Kevin [<mailto:kknudsen@Dewberry.com>]
Sent: Thursday, March 30, 2017 5:48 PM
To: Ambare, Snehal <Snehal.Ambare@dot.state.fl.us>

Cc: Hustad, Marc <Marc.Hustad@dot.state.fl.us>; Glenn Pressimone (Glenn.Pressimone@CFXWay.com)
<Glenn.Pressimone@CFXWay.com>

Subject: SR 417 (417-134) - Negotiated Scope, Manhours and Fee

Snehal, please find attached, for your review, the revised scope, manhours and fee based on our negotiations this morning. Please contact me if you have any questions or require additional information. Thanks.

Kevin E. Knudsen, P.E.
Vice President
Dewberry
800 N. Magnolia Ave., Suite 1000
Orlando, FL 32803
321.354.9646 Direct
407.649.8664 Fax
407.760.0321 Mobile
www.dewberry.com
kknudsen@dewberry.com

Visit Dewberry's website at www.dewberry.com

If you've received this email even though it's intended for someone else, then please delete the email, don't share its contents with others, and don't read its attachments. Thank you.

Visit Dewberry's website at www.dewberry.com

If you've received this email even though it's intended for someone else, then please delete the email, don't share its contents with others, and don't read its attachments. Thank you.

EXHIBIT "A"
SCOPE OF SERVICES
FOR
SR 417 Widening from Econlockhatchee Trail to Seminole County Line
Orange County, Florida

March 23, 2017

I. INTRODUCTION

The Central Florida Expressway Authority (CFX) is proposing to widen SR 417 from Econlockhatchee Trail northward to the Orange / Seminole County Line to a six-lane facility. The County Line is the jurisdictional limit between the CFX and Florida's Turnpike maintenance on SR 417. The County Line is located just south of the SR 426 (Aloma Avenue) interchange, which is a logical termini for the roadway widening improvements. FTE has future plans to widen SR 417 to an eight-lane section from the County Line northward. FTE wishes to limit future rework, avoid throw-away construction and minimize impacts to their customers by coordinating improvements with the CFX SR 417 design project

II. PROJECT DESCRIPTION

The CFX project will be modified to include a one-mile southbound auxiliary lane between Aloma Avenue and University Boulevard. The auxiliary lane will tie-in to the existing two lane University Boulevard off-ramp. In addition, the southbound on-ramp at Aloma Avenue will be widened to two lanes from the ramp gore to the existing ramp plaza, a distance of approximately 0.2 miles. The southbound mainline pavement will also be widened to the physical ramp gore so that the gore will be in its ultimate location. The northbound mainline pavement will transition from 3-lanes to 2-lanes between the Aloma Avenue exit ramp and the existing bridge over Aloma Avenue. The Aloma Avenue northbound off-ramp will also be improved to 2-lanes. The exit ramp gore will be shifted southward to maximize the merge distance between the gore and bridge.

The southbound auxiliary lane between Aloma Avenue and University Boulevard will add a significant amount of impervious surface and impact two existing ponds (Ponds 7W and 8). Retaining walls and/or guardrail and shoulder gutter may be required to provide the additional treatment volumes required. The existing infield pond (Pond 6W) at the University Boulevard interchange will be expanded to handle the additional stormwater. The roadway widening within the FTE/CFX transition area will also add a significant amount of impervious surface. Currently, there is one existing dry pond (Pond 9) that handles the interchange drainage. FTE has permitted adding an infield pond (Pond 9A) in the southeast quadrant of the interchange as part of the future

8-laning project. A portion of this pond (Pond 9A) will be designed and constructed to provide the treatment required for the additional SB pavement. The existing pond (Pond 9) outfall to Deep Lake will also be improved. Stormwater and environmental permits will be modified.

Additional geotechnical and survey services will be required. The lighting, ITS and signing and pavement marking plans will be updated for the added auxiliary lane and ramps.

All improvements within the FTE jurisdiction and right-of-way will be designed in accordance with FTE standards and specifications.

III. SERVICES TO BE PERFORMED BY THE CONSULTANT

ACTIVITY 3) - PROJECT COMMON AND GENERAL TASKS:

Additional meetings and contract maintenance will be required.

ACTIVITIES 4) and 5) - ROADWAY ANALYSIS AND PLANS:

The CONSULTANT shall update the roadway design and plans to accommodate the auxiliary lane and ramp improvements. The major work efforts include:

- Horizontal/Vertical Master Design Files.
- Cross Section Design Files.
- Traffic Control Analysis, Design and Plans.
- Quantities.
- Cost Estimates.
- Typical Sections.
- Plan and Profile Sheets.
- Ramp Terminal Details.
- Roadway Cross Sections.

ACTIVITY 6) - DRAINAGE ANALYSIS AND PLANS:

The CONSULTANT shall update the drainage design and plans to accommodate the auxiliary lane and ramp improvements. The major work efforts include:

- Drainage Maps
- Design of Cross Drains.
- Design of Ditches.
- Design and Plans for Stormwater Management Facilities.
- Design and Plans for Storm Drains.
- Update Drainage Design Documentation Report.
- Miscellaneous Drainage Detail Sheets.

ACTIVITY 7) - UTILITIES:

No additional utility tasks anticipated.

ACTIVITY 8) - ENVIRONMENTAL PERMITS, COMPLIANCE AND CLEARANCES:

The CONSULTANT shall update the permit application and submittal to accommodate the proposed improvements. The major work efforts include:

Complete and Submit Permit Applications.

ACTIVITY 9) and 18) – MISCELLANEOUS STRUCTURES:

The CONSULTANT shall design the required miscellaneous structures. The major work efforts include:

Overhead Sign Structures

Sta. 1231+80

Sta. 1249+00

Sta. 1258+50

Retaining Walls

Pond 7W

Pond 8

ACTIVITIES 19) and 20) – SIGNING AND PAVEMENT MARKING ANALYSIS AND PLANS:

The CONSULTANT shall update the signing and pavement marking design and plans to accommodate the auxiliary lane and ramp improvements. The major work efforts include:

Master Design Files

Signing and Pavement Marking Plans

ACTIVITIES 23) and 24) - LIGHTING ANALYSIS AND PLANS:

The CONSULTANT shall update the lighting design and plans to accommodate the auxiliary lane and ramp improvements and shall convert to LED. The major work efforts include:

Lighting Design Analysis Report

Voltage Drop Calculations

Master Design Files

Lighting Plans

ACTIVITY 27) - SURVEY

The CONSULTANT shall provide additional topographic and drainage surveys for the proposed roadway and drainage improvements. The major work efforts include:

- Drainage Survey
- Pond Site Survey
- Geotechnical Support
- Work Zone Safety

ACTIVITIES 33) and 34) – ITS ANALYSIS AND PLANS:

The CONSULTANT shall update the ITS design and plans to accommodate the auxiliary lane and ramp improvements. The major work efforts include:

- Master ITS Design Files
- ITS Plans

ACTIVITY 35) - GEOTECHNICAL:

The CONSULTANT shall be responsible for a complete geotechnical investigation to accommodate the design improvements. The major work efforts include:

- Roadway and Pond Borings
- Structure Borings
- Geotechnical Reports
- Laboratory Testing
- Engineering Support Services

Project Staff Hour Summary

Name of Consultant:

Dewberry

SR 417, Econ Trail to Seminole County Line, SA #1
417-134

Activity No.		Activity	Dewberry	CES	Ballmon	Terra	Sub 4	Sub 5	Sub 6	Sub 7	Sub 8	Sub 9	Sub 10	Sub 11	Sub 12	Total Hours
3	Project Common and General Tasks		71													71
4	Roadway Analysis		834													834
5	Roadway Plans		359													359
6a	Drainage Analysis		312													312
6b	Drainage Plans		288													288
7	Utilities		0													0
8	Env. Permits, Compliance & Clearances		41													41
9	Structures - Summary, Misc. Tasks, Dwg's		55													55
10	BOR		0													0
11	Temporary Bridge		0													0
12	Short Span Concrete Bridge		0													0
13	Medium Span Concrete Bridge		0													0
14	Structural Steel Bridge		0													0
15	Segmental Concrete Bridge		0													0
16	Movable Span		0													0
17	Retaining Walls		80													80
18	Miscellaneous Structures		72													72
19	Signing & Pavement Marking Analysis		0		74											74
20	Signing & Pavement Marking Plans		0		57											57
21	Signalization Analysis		0													0
22	Signalization Plans		0													0
23	Lighting Analysis		111	209												320
24	Lighting Plans		28	42												70
25	Landscape Architecture Analysis		0													0
26	Landscape Architecture Plans		0													0
27	Survey - Field and Office Support		45													45
28	Photogrammetry		0													0
29	Mapping		0													0
30	Terrestrial Mobile LIDAR		0													0
31	Architecture Development		0													0
32	Noise Barrier Impact Design Assessment		0													0
33	ITS Analysis		0	61												61
34	ITS Plans		0	34												34
35	Geotechnical		0			187										187
Project Total			2,296	346	131	187	0	0	0	0	0	0	0	0	0	2,960
27	Survey Field Crew Days		9													9

Notes: 1. Staff hours for prime consultant come directly from each discipline's worksheet.
2. Staff hours for subconsultants are to be entered manually into columns D through O.
3. For workbooks prepared by subconsultants, their project hours will be totaled in column C.

SR 417-134 MH Estimate-Dewberry-Tumpke-Turn.dwg
Summary

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: SR 417, Egan Trail to San Mateo County Line, SA 81
 County: Orange County
 FPH: 11-134
 EAP No. 11-134

Consultant Name: Dandery
 Consultant No.: 3000017
 Date: 3/20/2017

Item Classification	Total Staff Hours From "SH"	Project Manager	Engineer	Engineer Intern	Asst. Eng. Technician	Eng. Technician	Asst. Eng. Technician	Env. Specialist	Surveyor	Survey Technician	Field Clerk	Field Station	By Activity	Survey Cost By Activity	Average Rate Per Task
1. Project General and Project Common Tasks	71	43	7	0	7	0	0	0	0	0	0	0	71	\$5,100	\$72.67
2. Roadway Analysis	634	125	187	42	125	41	0	0	0	0	0	0	634	\$44,021	\$69.50
3. Roadway Plans	359	36	80	18	90	35	0	0	0	0	0	0	359	\$18,799	\$52.61
4. Drainage Analysis	31	125	94	0	62	0	0	0	0	0	0	0	312	\$18,415	\$59.04
5. Drainage Plans	288	30	72	14	86	14	0	0	0	0	0	0	288	\$13,760	\$47.78
6. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
7. Environmental Permits, Compliance & Clearances	41	4	8	0	0	0	0	0	0	0	0	0	41	\$1,785	\$43.56
8. Structures - Misc. Tasks, Design, Non-Tech.	55	3	14	2	10	3	0	0	0	0	0	0	55	\$2,862	\$52.04
9. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
10. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
11. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
12. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
13. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
14. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
15. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
16. Structures - Retaining Walls	80	4	20	8	24	4	0	0	0	0	0	0	80	\$3,569	\$44.61
17. Structures - Miscellaneous	72	4	18	6	22	4	0	0	0	0	0	0	72	\$3,234	\$44.92
18. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
19. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
20. Signage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
21. Signage Plans	111	11	44	34	22	0	0	0	0	0	0	0	111	\$5,850	\$52.52
22. Lighting Analysis	28	3	8	1	8	0	0	0	0	0	0	0	28	\$1,397	\$49.88
23. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
24. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
25. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
26. Survey (Field & Office Support)	45	0	0	0	0	0	0	0	14	22	0	0	45	\$1,795	\$39.90
27. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
28. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
29. Terraced Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
30. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
31. Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
32. Noise Barrier Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
Total Staff Hours	2,266	294	751	92	456	101	17	8	9	14	22	0	2,266	\$117,048.10	\$50.98
Total Staff Cost	\$25,783.80	\$45,315.34	\$22,200.36	\$2,693.78	\$18,408.88	\$1,682.73	\$648.00	\$213.78	\$504.09	\$617.26	\$573.32	\$0.00	2,266	\$117,048.10	\$50.98

Survey Field Days by Subconsultant
 4 - Person Crew

SALARY RELATED COSTS:
 OVERHEAD:
 Sub-Total Salary Related Costs

131.48%

Check # 3117,048.10

Notes:

1. This sheet is 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.

Survey (Field - 8 by Prime) 9 4-man crew days @ \$ 1,293.04 / day

SUBTOTAL ESTIMATED FEE:

Subconsultant CES

Subconsultant Baiton

Subconsultant Terra

Subconsultant Sub 4

Subconsultant Sub 2

SUBTOTAL SUBCONSULTANTS:

Geotechnical Field and Lab Testing

SUBTOTAL ESTIMATED FEE:

Optional Services

GRAND TOTAL ESTIMATED FEE:

Project Activity 3: General Tasks

Estimator

SR 417, Econ Trail to Sentinel County Line, SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	Michael Menden	3/31/17
Dewberry	Kevin Knudsen	4/2/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hour/ Unit	Total Hours	Comments
3.1	Public Involvement					N/A
3.1.1	Community Awareness Plan	LS	0	0	0	N/A
3.1.2	Notifications	LS	0	0	0	N/A
3.1.3	Prepare Mailing Lists	LS	0	0	0	N/A
3.1.4	Median Modification Letters	LS	0	0	0	N/A
3.1.5	Driveway Modification Letters	LS	0	0	0	N/A
3.1.6	Newsletters	LS	0	0	0	N/A
3.1.7	Renderings and Fly Throughs	LS	0	0	0	N/A
3.1.8	PowerPoint Presentation	LS	0	0	0	N/A
3.1.9	Public Meeting Preparations	LS	0	0	0	N/A
3.1.10	Public Meeting Attendance/Followup	LS	0	0	0	N/A
3.1.11	Other Agency Meetings	LS	0	0	0	N/A
3.1.12	Web Site	LS	0	0	0	N/A
3.1 Public Involvement Subtotal					0	
3.2	Joint Project Agreements	EA	0	0	0	N/A
3.3	Specifications Package Preparation	LS	0	0	0	N/A
3.4	Contract Maintenance and EDMS	LS	0	0	0	N/A
3.5	Value Engineering (Multi-Discipline Team) Review	LS	0	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	71	71	See listing below
3.7	Plans Update	LS	0	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	0	0	0	N/A
3.9	Digital Delivery	LS	0	0	0	N/A
3.10	Risk Assessment Workshop	LS	0	0	0	N/A
3.11	Railroad, Transit, and/or Airport Coordination	LS	0	0	0	N/A
3.12	Other Project General Tasks	LS	0	0	0	N/A
3. Project Common and Project General Tasks Total					71	

3.6 - List of Project Manager Meetings					Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis					EA	0	0	0	N/A
Drainage					EA	0	0	0	N/A
Utilities					EA	0	0	0	N/A
Environmental					EA	0	0	0	N/A
Structures					EA	0	0	0	N/A
Signing & Pavement Marking					EA	0	0	0	N/A
Signalization					EA	0	0	0	N/A
Lighting					EA	0	0	0	N/A
Landscape Architecture					EA	0	0	0	N/A
Survey					EA	0	0	0	N/A
Photogrammetry					EA	0	0	0	N/A
ROW & Mapping					EA	0	0	0	N/A
Terrestrial Mobile LIDAR					EA	0	0	0	N/A
Architecture					EA	0	0	0	N/A
Noise Barriers					EA	0	0	0	N/A
ITS Analysis					EA	0	0	0	N/A
Geotechnical					EA	0	0	0	N/A
Progress Meetings					EA	4	9	36	81-Weekly for 2 months (4 people @ 2hrs/ea) = 1 hr/ea for agenda & minutes
Phase Reviews					EA	3	9	27	Tumpline Coord Migs (3 migs - 3people - 3 hrs/ea)
Field Reviews					EA	1	8	8	2 people @ 4 hrs/ea
Total Project Manager Meetings						8		71	Total PM Meeting Hours carries to Task 3.8 above

Notes:

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

Project Activity 4: Roadway Analysis

Estimator:

SR 417, Econ Trail to Seminole County Line, SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Muench	3/31/17
Dewberry	Kevin Kauder	4/2/17

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	0	0	0	N/A
4.2	Pavement Type Selection Report	LS	0	0	0	N/A
4.3	Pavement Design Package	LS	1	0	0	Use Purni Design from FTE Express Lane Project
4.4	Cross-Slope Correction	LS	0	0	0	N/A
4.5	Horizontal Vertical Master Design Files	LS	1	304	304	SR 417 (1.0 mile of SB Auxiliary Lane between Aloma Avenue and University Blvd) @ 240 hrs/mi + Ramps (0.2 mi of SB on-ramp at Aloma Ave and 0.2 mi of SB off-ramp at University Blvd = 0.4 mi @ 180 hrs/mi)=240 mhs + 0.4 mhs = 304 mhs
4.6	Access Management	LS	0	0	0	N/A
4.7	Roundabout Evaluation	LS	0	0	0	N/A
4.8	Roundabout Final Design Analysis	LS	0	0	0	N/A
4.9	Cross Section Design Files	LS	1	188	188	SR 417 (1.0 mi) + Ramps (0.4 mi) = 1.4 mi @ 120 hrs/mi
4.10	Traffic Control Analysis	LS	1	80	80	Level 2 @ 1.4 miles, Analysis LS = 60 hrs
4.11	Master TCP Design Files	LS	1	112	112	Level 2 @ 1.4 miles, SR 417 (40 hrs/mi x 2 phases x 1.0 miles) = 80 hrs, Ramp (0.4 mi x 2 phases x 40 hrs/phase) = 32 hrs
4.12	Design Variations and Exceptions	LS	0	0	0	N/A
4.13	Design Report	LS	0	0	0	N/A
4.14	Quantities	LS	1	80	80	
4.15	Cost Estimate	LS	1	32	32	2 @ 16 hrs/est
4.16	Technical Special Provisions	LS	0	0	0	N/A
4.17	Other Roadway Analyses	LS	0	0	0	N/A
Roadway Analysis Technical Subtotal					736	

Project Activity 4: Roadway Analysis



Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.18	Field Reviews	LS	0	0	0	N/A
4.19	Monitor Existing Structures	LS	0	0	0	N/A
4.20	Technical Meetings	LS	0	0	0	N/A
4.21	Quality Assurance/Quality Control	LS	%	5%	37	
4.22	Independent Peer Review	LS	%	0%	0	N/A
4.23	Supervision	LS	%	5%	37	
Roadway Analysis Nontechnical Subtotal						76
4.24	Coordination	LS	%	3%	24	
4. Roadway Analysis Total						834

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0	N/A	
Pavement	EA	0	0	0	N/A	
Access Management	EA	0	0	0	N/A	
15% Line and Grade	EA	0	0	0	N/A	
Driveways	EA	0	0	0	N/A	
Local Governments (cities, counties, MPO)	EA	0	0	0	N/A	
Work Zone Traffic Control	EA	0	0	0	N/A	
30% Review Meetings	EA	0	0	0	N/A	
Other Meetings	EA	0	0	0	N/A	
Subtotal Technical Meetings				0		
Progress Meetings (if required by FDOT)	EA	0	0	0	N/A	
Phase Review Meetings	EA	0	0	0	N/A	
Total Meetings				0		
Total Project Manager Meetings (carries to Tab 3)						0

Carries to 4.17

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator:

SR 417, Econ Trail to Seminole County Line, SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Muench	3/31/17
Dewberry	Kevin Krudsen	4/2/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	1	2	2	Revise
5.2	Summary of Pay Items Including Quantity Input		Sheet	2	4	8	Revise
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	3	6	18	SR 417 (1), Univ Off-Ramp (1), Aloma On-Ramp (1)
5.3.2	Typical Section Details		EA	0	0	0	N/A
5.4	General Notes/Pay Item Notes		Sheet	0	0	0	N/A
5.5	Summary of Quantities Sheets		Sheet	8	1	8	FDOT Method
5.6	Project Layout		Sheet	1	2	2	Add Ramps
5.7	Plan/Profile Sheet		Sheet	0	0	0	N/A
5.8	Profile Sheet		Sheet	15	4	60	SR 417 (11), University Off-Ramp (1), Aloma On-Ramp (3)
5.9	Plan Sheet		Sheet	12	4	48	SR 417 (11), University Off-Ramp (1)
5.10	Special Profile		Sheet	0	0	0	N/A
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	N/A
5.12	Interchange Layout Sheet		Sheet	0	0	0	N/A
5.13	Ramp Terminal Details (Plan View)		Sheet	2	10	20	University Off-Ramp (1), Aloma On-Ramp (1)
5.14	Intersection Layout Details		Sheet	0	0	0	N/A
5.15	Special Details		EA	0	0	0	N/A
5.16	Cross-Section Pattern Sheet(s)		Sheet	1	4	4	N/A

Project Activity 5: Roadway Plans



Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.17	Roadway Soil Survey Sheet(s)		Sheet	0	0	0	N/A
5.18	Cross Sections		EA	74	0.25	19	SR 417 (1.0 mi) + Ramp (0.4 mi) = 1.4 mi = 7,382 LF @ 100' spacing
5.19	Temporary Traffic Control Plan Sheets		Sheet	24	4	96	12 sheets x 2 Phases = 24 sheets
5.20	Temporary Traffic Control Cross Section Sheets		EA	22	0.25	6	1.4 mi @ 500' spacing = 11 sections x 2 Phases = 22 sections
5.21	Temporary Traffic Control Detail Sheets		Sheet	3	4	12	General Notes, Quantities, Paving Typical & Notes, Detour Sheets, Advanced Signing, etc
5.22	Utility Adjustment Sheets		Sheet	12	2	24	Revised
5.23	Selective Cleaning and Grubbing Sheet(s)		Sheet	0	0	0	N/A
5.24	Project Network Control Sheet(s)		Sheet	0	0	0	N/A
5.25	Environmental Detail Sheets		Sheet	0	0	0	N/A
5.26	Utility Verification Sheet(s) (SUE Data)		Sheet	0	0	0	N/A
Roadway Plans Technical Subtotal						327	
5.27	Quality Assurance/Quality Control		LS	%	5%	18	
5.28	Supervision		LS	%	5%	18	
5. Roadway Plans Total						369	

Project Activity 6a: Drainage Analysis

Estimator:

SR 417, Econ Trail to Seminole County Line, SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Moench	<i>Patrick Moench</i> 3/31/17
Dewberry	Kevin Krudsen	<i>Kevin Krudsen</i> 4/2/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	1	8	8	Pond 9A
6a.2	Base Clearance Report	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	2	8	18	Pond 9A-Aloma
6a.5	Design of Ditches	Per Ditch Mile	1.4	15	21	1.4 miles (ft)
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	4	34	136	2 New Ponds (8W & 9A) @ 40 hrs/ea, 2 Exist Ponds (7W & 8) @ 28 hrs/ea
6a.7	Design of Stormwater Management Facility (Roadside Ditch as Linear Pond)	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	24	2	48	Add shoulder gutter, Aloma interchange area
6a.10	Optional Culvert Material	EA	0	0	0	N/A
6a.11	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	24	24	Update
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	SB 417 at Aloma
6a.16	Cost Estimate	LS	0	0	0	N/A
6a.17	Technical Special Provisions	LS	0	0	0	N/A
6a.18	Other Drainage Analysis	LS	0	0	0	N/A
Drainage Analysis Technical Subtotal						269
6a.19	Field Reviews	LS	1	8	8	1 reviews x 2 people x 4 hrs
6a.20	Technical Meetings	LS	0	0	0	N/A
6a.21	Environmental Look-Around (ELA) Meeting	LS	1	0	0	N/A
6a.22	Quality Assurance/Quality Control	LS	%	5%	13	
6a.23	Independent Peer Review	LS	%	0%	0	N/A
6a.24	Supervision	LS	%	5%	13	
Drainage Analysis Nontechnical Subtotal						34
6a.25	Coordination	LS	%	3%	9	
6a. Drainage Analysis Total						312

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

6b. Drainage Plans

Estimator:

SR 417, Eon Trail to Seminole County Line, SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Moseley	2/20/17
Dewberry	Kevin Knudsen	4/2/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (including Interchanges)		Sheet	4	18	64	1" = 200'
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	N/A
6b.3	Summary of Drainage Structures		Sheet	1	18	18	New structures
6b.4	Optional Pipe/Culvert Material		Sheet	0	0	0	N/A
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	24	2.5	60	New structures
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	1	24	24	New Pond outfalls
6b.7	Lateral Ditch Plan/Profile		Sheet	0	0	0	N/A
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	N/A
6b.9	Retention/Detention Ponds Detail Sheet(s)		Sheet	4	22	88	2 New Ponds (SW & SA) @ 28 hrs/ea, 2 East Ponds (TW & B) @ 18 hrs/ea
6b.10	Retention Pond Cross Sections		EA	32	0.3	10	8 per pond
6b.11	Erosion Control Plan Sheet(s)		Sheet	0	0	0	N/A
6b.12	SWPPP Sheet(s)		Sheet	0	0	0	N/A
Drainage Plans Technical Subtotal							262
6b.13	Quality Assurance/Quality Control		LS	%	5%	13	
6b.14	Supervision		LS	%	5%	13	
6. Drainage Plans Total							288

Project Activity 8: Environmental Permits

Estimator

SR 417, Econ Trail to Samnole County Line, SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Moseach	<i>Patrick Moseach</i> 2/1/17
Dewberry	Kevin Knudsen	<i>Kevin Knudsen</i> 2/12/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/Units	Total Hours	Comments
Environmental Permits, Compliances and Clearances						
8.1	Preliminary Project Research	LS	1	4	4	
Permits						
8.2	Field Work					
8.2.1	Pond Site Alternatives	per pond site	0	0	0	N/A
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	0	0	0	N/A
8.2.3	Species Surveys	LS	0	0	0	N/A
8.2.4	Archaeological Surveys	LS	0	0	0	N/A
8.3	Agency Verification of Wetland Data	LS	0	0	0	N/A
8.4	Complete And Submit All Required Permit Applications					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	24	24	Pond 8A
8.4.2	Complete and Submit All Required Species Permit Applications	LS	0	0	0	N/A
8.5	Prepare Dredge and Fill Sketches (as needed)	LS	1	8	8	Modify Impacts
8.6	Prepare USCG Permit Sketches	LS	0	0	0	N/A
8.7	Prepare Water Management District Right-of-Way Occupancy Permit	LS	0	0	0	N/A
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	0	0	0	N/A
8.9	Prepare Tree Permit Information	LS	0	0	0	N/A
8.10	Mitigation Design	LS	0	0	0	N/A
8.11	Mitigation Coordination and Meetings	LS	0	0	0	N/A

Project Activity 8: Environmental Permits



Task No.	Task	Units	No. of Units	Hours/Units	Total Hours	Comments
8.12	Other Environmental Permits	LS	0	0	0	N/A
	Environmental Clearances/Reevaluations					
8.13	Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)					
8.13.1	NEPA or SEIR Reevaluation	LS	0	0	0	N/A
8.13.2	Archaeological and Historical Features	LS	0	0	0	N/A
8.13.3	Wetland Impact Analysis	LS	0	0	0	N/A
8.13.4	Essential Fish Habitat	LS	0	0	0	N/A
8.13.5	Wildlife and Habitat Impact Analysis	LS	0	0	0	N/A
8.13.6	Section 7 or Section 10 Consultation	LS	0	0	0	N/A
8.14	Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)					
8.14.1	NEPA or SEIR Reevaluation	LS	0	0	0	N/A
8.14.2	Archaeological and Historical Features	LS	0	0	0	N/A
8.14.3	Wetland Impact Analysis	LS	0	0	0	N/A
8.14.4	Essential Fish Habitat	LS	0	0	0	N/A
8.14.5	Wildlife and Habitat Impact Analysis	LS	0	0	0	N/A
8.14.6	Section 7 or Section 10 Consultation	LS	0	0	0	N/A
8.15	Contamination Impact Analysis	LS	0	0	0	N/A
8.16	Asbestos Survey	LS	0	0	0	N/A
	Environmental Permits, Compliance, and Clearances/Reevaluations Technical Subtotal				38	
8.17	Technical Meetings	LS	0	0	0	N/A
8.18	Quality Assurance/Quality Control	LS	%	5%	2	
8.19	Supervision	LS	%	5%	2	
	Environmental Permits, Compliance and Clearances Nontechnical Subtotal				4	
8.20	Coordination	LS	%	3%	1	
	8. Environmental Permits, Compliance and Clearances Total				41	

Project Activity 8: Environmental Permits



Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
Technical Meetings						
WMD		EA	0	0	0	N/A
NMFS		EA	0	0	0	N/A
USACE		EA	0	0	0	N/A
USCG		EA	0	0	0	N/A
USFWS		EA	0	0	0	N/A
FWCC		EA	0	0	0	N/A
FDOT		EA	0	0	0	N/A
Other Meetings		EA	0	0	0	N/A
Subtotal Technical Meetings					0	Subtotal Project Manager Meetings
Progress Meetings (if required by FDOT)		EA	0	0	0	N/A
Phase Review Meetings		EA	0	0	0	N/A
Total Meetings					0	Total Project Manager Meetings (carries to Tab 3)

Carries to 8 18 Carries to Tab 3

Estimator:

SR 417, Econ Trail to Seminole County Line, SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Moench	 3/2/17
Dewberry	Kevin Knudson	 4/2/17

NOTE: Signature Block is optional, per District preference

NOTE: Signature Block is optional, per District preference

[illegible]

Ena P

(Continue Table)

Project Activity 17: Retaining Walls

Estimator

SR 417, Econ Trail to Seminole County Line, SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	<i>3/31/17</i>	<i>Patrick Murch</i>
Dewberry	<i>Ken Knudson</i>	<i>4/24/17</i>

NOTE: Signature Block is optional, per District preference

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
General Requirements							
17.1	Key Sheet	Sheet	0	0	0	0	N/A
17.2	Horizontal Wall Geometry	Per Wall	1	8		8	
Permanent Proprietary Walls							
17.3	Vertical Wall Geometry	Per Wall	2	8		16	Ponds 7W and 8
17.4	Semi-Standard Drawings	Sheet	2	4	2	8	Ponds 7W and 8
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	2	16	2	32	Ponds 7W and 8
17.6	Details	Sheet	1	16	1	16	Ponds 7W and 8
Temporary Proprietary Walls							
17.7	Vertical Wall Geometry	Per Wall	0	0		0	N/A
17.8	Semi-Standard Drawings	Sheet	0	0	0	0	N/A
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	N/A
17.10	Details	Sheet	0	0	0	0	N/A
Cast-In-Place Retaining Walls							
17.11	Design	EA Design	0	0	0	0	N/A
17.12	Vertical Wall Geometry	EA Wall	0	0	0	0	N/A
17.13	General Notes	Sheet	0	0	0	0	N/A
17.14	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	N/A
17.15	Sections and Details	Sheet	0	0	0	0	N/A
17.16	Reinforcing Bar List	Sheet	0	0	0	0	N/A

Project Activity 17: Retaining Walls



Task No.	Task	Unit	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
Other Retaining Walls and Bulkheads							
17.17	Design	EA Design	0	0	0	0	N/A
17.18	Vertical Wall Geometry	EA Wall	0	0	0	0	N/A
17.19	General Notes, Tables and Misc. Details	Sheet	0	0	0	0	N/A
17.20	Wall Plan and Elevations	Sheet	0	0	0	0	N/A
17.21	Details	Sheet	0	0	0	0	N/A
17. Structures - Retaining Walls Total					6	80	

Project Activity 18: Miscellaneous Structures

Estimator

CR 417 Econ Trail to Seminole County Line, SA #1
417-134

Representing	Price Name	Signature
FDOT District	Patrick Muench	3/31/17
Democracy	Kevin Knudsen	4/12/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Unit	No. of Units	Hourly Unit	No. of Sheets	Total Hours	Comments
Concrete Box Culvert							
18.1	Concrete Box Culverts	EA	0	0	0	0	N/A
18.2	Concrete Box Culverts Extensions	EA	0	0	0	0	N/A
18.3	Concrete Box Culvert Data Table Plan Sheets	Sheet	0	0	0	0	N/A
18.4	Concrete Box Culvert Special Details Plan Sheets	Sheet	0	0	0	0	N/A
Special Poles							
18.5	Steel Sign Poles	Initial Config	0	0	0	0	N/A
		EA Add'l Config	0	0	0	0	N/A
18.6	Concrete Sign Poles	Initial Config	0	0	0	0	N/A
		EA Add'l Config	0	0	0	0	N/A
18.7	Sign Pole Data Table Plan Sheets	Sheet	0	0	0	0	N/A
18.8	Sign Pole Special Details Plan Sheets	Sheet	0	0	0	0	N/A
Misc Arms							
18.9	Misc Arms	EA Design	0	0	0	0	N/A
18.10	Misc Arms Data Table Plan Sheets	Sheet	0	0	0	0	N/A
18.11	Misc Arms Special Details Plan Sheets	Sheet	0	0	0	0	N/A
Overhead/Candleeye Sign Structures							
18.12	Overhead Sign Structures	EA Design	0	0	0	0	N/A
18.13	Overhead Sign Structures	EA Design	3	18	0	48	Review for Aux Lane
18.14	Special (Long Span) Overhead Sign Structures	EA Design	0	0	0	0	N/A
18.15	Monopole Overhead Sign Structures	EA Design	0	0	0	0	N/A
18.16	Bridge Mounted Signs (Attached to Support)	EA Design	0	0	0	0	N/A
18.17	Overhead and Candleeye Sign Structures Data Table Plan Sheets	Sheet	3	8	3	24	Review for Aux Lane
18.18	Candleeye and Candleeye Sign Structures Special Details Plan Sheets	Sheet	0	0	0	0	N/A
High Mast Lighting							
18.19	Non-Standard High Mast Lighting Structures	EA Design	0	0	0	0	N/A
18.20	High Mast Lighting Special Details Plan Sheets	Sheet	0	0	0	0	N/A
Noise Barrier Walls (Ground Mount)							
18.21	Horizontal Wall Geometry	EA Wall	0	0	0	0	N/A
18.22	Vertical Wall Geometry	EA Wall	0	0	0	0	N/A
18.23	Summary of Quantities - Acoustic Requirements	Sheet	0	0	0	0	N/A
18.24	Control Drawings	Sheet	0	0	0	0	N/A
18.25	Design of Noise Barrier Walls Covered by Standards	EA Design	0	0	0	0	N/A
18.26	Design of Noise Barrier Walls Not Covered by Standards	EA Design	0	0	0	0	N/A
18.27	Acoustic Details	LS	0	0	0	0	N/A
Special Structures							

Project Activity 1B: Miscellaneous Structures

1B.20	Fender System	LS	1	0	0	0	N/A
1B.20	Fender System Access	LS	1	0	0	0	N/A
1B.20	Special Structures	LS	1	0	0	0	N/A
1B.21	Other Structures	LS	1	0	0	0	N/A
1B. Structures - Miscellaneous Total							72
							\$

Signature

Project Activity 23: Lighting Analysis

Estimator

SR 417, Econ Trail to Seminole County Line, SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Muench	3/31/17
Dewberry	Kevin Knudsen	4/2/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/Units	Total Hours	Comments
23.1	Lighting Justification Report	LS	0	0	0	Lighting Design by CES, Electrical Design by Dewberry
23.2	Lighting Design Analysis Report	LS	1	36	36	PDAR (include in LDAR)
23.3	Aeronautical Evaluation	LS	0	0	0	N/A
23.4	Voltage Drop Calculations	LS	1	20	20	Load Center
23.5	FDEP Coordination and Report	LS	0	0	0	N/A
23.6	Reference and Master Design Files	LS	0	0	0	N/A
23.7	Temporary Lighting	LS	0	0	0	N/A
23.8	Design Documentation	LS	0	0	0	N/A
23.9	Quantities	LS	0	0	0	N/A
23.10	Cost Estimate	LS	0	0	0	N/A
23.11	Technical Special Provisions	LS	0	0	0	N/A
23.12	Other Lighting Analysis	LS	1	32	32	Load Analysis, Short Circuit Analysis, Arc Flash Analysis
Lighting Analysis Technical Subtotal						88
23.13	Field Reviews	LS	1	4	4	1 review, 1 person, 4 hrs
23.14	Technical Meetings	LS	1	8	8	Meetings are listed below
23.15	Quality Assurance/Quality Control	LS	%	5%	4	
23.16	Independent Peer Review	LS	%	0%	0	N/A
23.17	Supervision	LS	%	5%	4	
Lighting Analysis Nontechnical Subtotal						20
23.18	Coordination	LS	%	1%	3	
23. Lighting Analysis Total						111

Project Activity 23: Lighting Analysis

Shan

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
FDOT Lighting Design	EA	0	0	0		0
FDOT Traffic Design	EA	0	0	0		0
Power Company (services point coordination)	EA	1	4	4		0
Maintaining Agency (cities, counties)	EA	0	0	0		0
Airport authority	EA	0	0	0		0
FDEP Lighting (coast areas)	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings				4		
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3	0
Phase Review Meetings	EA	1	4	4	PM attendance at Phase Review Meetings is manually entered on General Task 3	
Total Meetings				8	Total Project Manager Meetings (carries to Tab 3)	0

Carries to Tab 3

Carries to 23.1

24. Lighting Plans

Estimator:

SR 417, Econ Trail to Sammie County Line, SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	<u>Patrick Murch</u>	<u>[Signature]</u> <u>3/6/17</u>
Dewberry	<u>Kevin Knudson</u>	<u>[Signature]</u> <u>4/12/17</u>

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
24 1	Key Sheet		Sheet	0	0	0	0	N/A
24 2	Summary of Pay Items Including Designer Interface (TRANS-PORT) Input		Sheet	0	0	0	0	N/A
24 3	Tabulation of Quantities		Sheet	0	0	0	0	N/A
24 4	General Notes/Pay Item Notes		Sheet	0	0	0	0	N/A
24 5	Pole Data, Legend and Criteria		Sheet	0	0	0	0	N/A
24 6	Service Point Details		Sheet	0	0	1	26	Load Center
24 7	Project Layout		Sheet	0	0	0	0	N/A
24 8	Plan Sheet		Sheet	0	0	0	0	N/A
24 9	Special Details		Sheet	0	0	0	0	N/A
24 10	Temporary Lighting Data and Details		Sheet	0	0	0	0	N/A
24 11	Traffic Control Plan Sheets		Sheet	0	0	0	0	N/A
24 12	Intern Standards		LS	0	0	0	0	N/A
Lighting Plans Technical Subtotal							1	28
24 13	Quality Assurance/Quality Control		LS	%	5%		1	
24 14	Supervision		LS	%	5%		1	
24. Lighting Plans Total							1	28

27. Survey

Estimator

SR 417, Econ Trail to Seminole County Line SA #1
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Mwench	<i>Patrick Mwench</i> 3/24/17
Dewberry	Kevin Knudsen	<i>Kevin Knudsen</i> 4/2/17

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	N/A
	Multi-Lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile	0.00	1.75	0.00		0.00	4.00	0.00	
27.2	Vertical PC / Bench Line									
	2-Lane Roadway	Mile			0.00		0.00		0.00	N/A
	Multi-Lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile	0.00	1.75	0.00		0.00	5.00	0.00	
27.3	Alignment and Existing RAW Lines									
		Mile	0.00	2.00	0.00	1.00	0.00	6.00	0.00	N/A
27.4	Aerial Targets			Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	N/A
	Multi-Lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA	0.00	12.00	0.00		0.00	5.00	0.00	
27.5	Reference Points	"A"		Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	N/A
	Multi-Lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA	0.00	2.00	0.00	1.00	0.00	10.00	0.00	
	Reference Points	"B"		Units/Day						N/A

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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
	Non Alignment Points/Approximate	EA			0.00		0.00		0.00	N/A
27.6	Topography/DTM (3D)									
		Mile	0.00	5.00	0.00		0.00	8.00	0.00	N/A
27.7	Planimetric (2D)									
		Mile			0.00		0.00		0.00	N/A
27.8	Roadway Cross-Sectional/Profiles									
		EA	0.00	0.1887	0.00		0.00	4.00	0.00	N/A
27.9	Side Street Surveys									
		Mile	0.00	4.00	0.00		0.00	8.00	0.00	N/A
27.10	Underground Utilities									
	Designates	Mile/Site	0.00	1.00	0.00		0.00	3.00	0.00	N/A
	Locates	Point	0	0.125	0.00		0.00	4.00	0.00	N/A
	Survey		35%	0.00	0.00		0.00	5.00	0.00	
27.11	Outfall Survey									
		Mile			0.00		0.00		0.00	N/A
27.12	Drainage Survey									
		EA	20.00	12.00	1.87		0.00	4.00	8.87	Detail an estimated 20 existing drainage structures in FTE limits SB. Add information to DREXRD.DGN file.
27.13	Bridge Survey									
	Minor / Major	EA	0.00	1.00	0.00		0.00	8.00	0.00	N/A
27.14	Channel Survey									
		EA			0.00		0.00		0.00	N/A
27.15	Pond Site Survey									
		EA	2.00	2.00	4.00		0.00	6.00	24.00	TOPO/DTM Survey 2 ponds within the RAW - Pond 6W and Pond 9A. Add information to TIN, TOPO/D.DGN, DREXRD.DGN and UTEXRD.DGN files
27.16	Mitigation Survey									
		Mile			0.00		0.00		0.00	N/A
27.17	Jurisdiction Line Survey									
		Mile	0.00	2.00	0.00		0.00	8.00	0.00	N/A

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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
27.18	Geotechnical Support			Units/Day						
		EA	18	8	2.00		0.00	4.00	8.00	Stake or locate 18 borings for ponds and wells.
27.19	Sectional / Grant Survey									
		Corner			0.00		0.00		0.00	Not Included
		Mile			0.00		0.00		0.00	
27.20	Subdivision Location									
		Block			0.00		0.00		0.00	Not Included
27.21	Maintained ROW									
		Mile			0.00		0.00		0.00	Not Included
27.22	Boundary Survey									
		EA			0.00		0.00		0.00	Not Included
27.23	Water Boundary Survey									
		EA			0.00		0.00		0.00	Not Included
27.24	ROW Staking / ROW Line									
		EA			0.00		0.00		0.00	Not Included
		Mile			0.00		0.00		0.00	
27.25	ROW Monumentation									
		Point			0.00		0.00		0.00	Not Included
27.26	Line Cutting									
		Mile			0.00					Included in other tasks if required
27.27	Work Zone Safety									
			8	0.125	1.00					One hour per day
27.28	Miscellaneous Surveys									
					0.00		0.00		0.00	Not Included
Survey Subtotal										
				Crew Days	9		Field Support Hours	0	Office Support Hours	39
27.29	Supplemental Surveys									THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT SURVEYOR
			4.5%	9	0		0		2	
27.30	Document Research	Units								
										N/A

SPLS =
PLS =
Office Support =
Total Hours =

Continued on Page 3

²⁰ Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3

Name of Project: SR 417, Ecoroute/hatchers Trail to Seminole County Line

Consultant Name	Comprehensive Engineering Services, Inc.
Consultant No.:	enter consultants proj number

[illegible]

SALARY RELATED COSTS:			
OVERHEAD:			
SUBTOTAL SALARY-RELATED COSTS	171	42%	\$15,554.02
OPERATING MARGIN:			
EXPENSES:	11	447%	\$27,597.01
SUBTOTAL ESTIMATED FEE:	0	00%	\$43,151.03
			\$4,038.67
			\$742.27
			\$48,332.47

Notes:

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

SUBTOTAL ESTIMATED FEE:	\$48,832.47
Optional Services	\$0.00
GRAND TOTAL ESTIMATED FEE:	\$48,832.47

Project Activity 23: Lighting Analysis

Estimator

SR 417, Econtohatchee Trail to Seminole County Line
417-134

Representing	Print Name	Signature / Date
FDOT District	<i>Patrick Morsch</i>	<i>Patrick Morsch</i> 3/31/17
CES	<i>Kevin Knudsen</i>	<i>Kevin Knudsen</i> 4/2/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/Units	Total Hours	Comments
23.1	Lighting Justification Report	LS	0	0	0	N/A
23.2	Lighting Design Analysis Report	LS	1	48	48	Update design documentation
23.3	Aeronautical Evaluation	LS	1	8	8	FAA filing required based on notice criteria tool - online approval process where information for each light pole is input for determination (altitude, longitude, ground elevation, pole height, and traverseway)
23.4	Voltage Drop Calculations	LS	0	0	0	To be completed by Dewberry
23.5	FDEP Coordination and Report	LS	0	0	0	N/A
23.6	Reference and Master Design Files	LS	1	79	79	Project length: SR 417 mainline 1.0 miles, University ramps 0.2 miles, Abornia ramps 0.2 miles. Middle range (limited access with interchange spacing greater than two miles), 10 hours setup + (1.4 miles mainline/0.1 plaza/ramps) * 45 hours per mile = 79 hours
23.7	Temporary Lighting	LS	0	0	0	N/A
23.8	Design Documentation	LS	1	8	8	Included with each submittal
23.9	Quantities	LS	1	12	12	8 plan sheets @ 2 hour per sheet
23.10	Cost Estimate	LS	1	4	4	2 estimates - phase III, and final
23.11	Technical Special Provisions	LS	0	0	0	N/A
23.12	Other Lighting Analysis	LS	0	0	0	N/A
Lighting Analysis Technical Subtotal						168
23.13	Field Reviews	LS	1	16	16	2 field reviews, 2 people @ 4 hours
23.14	Technical Meetings	LS	1	12	12	See listed meetings for breakdown
23.15	Quality Assurance/Quality Control	LS	%	5%	8	
23.16	Independent Peer Review	LS	%	0%	0	
23.17	Supervision	LS	%	5%	8	
Lighting Analysis Nontechnical Subtotal						44
23.18	Coordination	LS	%	1%	6	

Project Activity 23: Lighting Analysis

23. Lighting Analysis Total						209
Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
FDOT Lighting Design	EA	0	0	0		0
FDOT Traffic Design	EA	0	0	0		0
Power Company (service point coordination)	EA	1	4	4		0
Maintaining Agency (cities, counties)	EA	1	4	4		0
Airport authority	EA	0	0	0		0
FDEP Lighting (coast areas)	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings				8		0
Progress Meetings (if required by FDOT)	EA	0	0	0	Subtotal Project Manager Meetings	0
Phase Review Meetings	EA	1	4	4	PM attendance at Progress Meetings is manually entered on General Task 3	
Total Meetings				12	PM attendance at Phase Review Meetings is manually entered on General Task 3	
					Total Project Manager Meetings (carries to Tab 3)	0

Carries to Tab 3

24. Lighting Plans

Estimator

SR 417, Econlochatchee Trail to Seminole County Line
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Muench	
CES	Kevin Knudsen	4/12/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
24.1	Key Sheet		Sheet	1	0	0	0	Include with CFX project
24.2	Summary of Pay Items including Designer Interface (TRANS-PORT) Input		Sheet	0	0	0	0	N/A
24.3	Tabulation of Quantities		Sheet	1	8	1	8	1 sheet
24.4	General Notes/Pay Item Notes		Sheet	1	0	1	6	FTE Notes
24.5	Pole Data, Legend and Criteria		Sheet	1	12	1	12	1 pole data sheet, LED
24.6	Service Port Details		Sheet	0	0	0	0	N/A
24.7	Project Layout		Sheet	0	0	0	0	N/A
24.8	Plan Sheet	1" = 50'	Sheet	6	2	6	12	6 plan sheets
24.9	Special Details		Sheet	0	0	0	0	N/A
24.10	Temporary Lighting Data and Details		Sheet	0	0	0	0	N/A
24.11	Traffic Control Plan Sheets		Sheet	0	0	0	0	N/A
24.12	Interim Standards		LS	0	0	0	0	N/A
Lighting Plans Technical Subtotal							38	
24.13	Quality Assurance/Quality Control		LS	%	5%		2	
24.14	Supervision		LS	%	5%		2	
24. Lighting Plans Total							42	

33. ITS Analysis

Estimator: RLS

SR 417, Econohatchee Trail to Seminole County Line
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Muench	 3/31/17
CES	Kevin Knudson	4/2/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
33.1	ITS Analysis	LS	0	0	0	N/A
33.2	Communications Plan Analysis	LS	0	0	0	N/A
33.3	Lightning Protection Analysis	Per Site	1	0	0	N/A
33.4	Power Subsystem	LS	0	0	0	N/A
33.5	Voltage Drop Calculations	LS	0	0	0	N/A
33.6	Design Documentation	LS	0	0	0	N/A
33.7	Existing ITS System	LS	1	8	8	Review FTE as-buils
33.8	Queue Analysis	PI	0	0	0	N/A
33.9	Reference and Master ITS Design File	PI	0	0	0	N/A
33.10	Reference and Master Communications Design File	PI	1	16	16	Aux Lane - 1.0 mi @ 16 hrs/mi
33.11	Pole Elevation Analysis	LS	0	0	0	N/A
33.12	Sign Panel Design Analysis	LS	0	0	0	N/A
33.13	Quantities	Sheet	5	3	15	Aux Lane - 5 plan sheets
33.14	Cost Estimate	LS	0	0	0	N/A
33.15	Technical Special Provisions	LS	0	0	0	N/A
33.16	Other ITS Analyses	LS	0	0	0	N/A
Intelligent Transportation Systems Analysis Technical Subtotal					39	

33. ITS Analysis

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Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
33.17	Field Reviews	LS	1	16	16	2 reviews, 2 people, 4 hours
33.18	Technical Meetings	LS	1	0	0	Meetings are listed below
33.19	Quality Assurance/Quality Control	LS	%	5	2	
33.20	Supervision	LS	%	5	2	
Intelligent Transportation Systems Analysis Nontechnical Subtotal						
33.21	Coordination	LS	%	3	2	
33. Intelligent Transportation Systems Analysis Total						
					61	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0		0
Local Governments (cities, counties, MPO)	EA	0	0	0		0
Utility Owners	EA	0	0	0		0
Field Meetings	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	0
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3	0
Total Meetings						
				0	Total Project Manager Meetings (carries to Tab 3)	0

Carries to Tab 3

Carries to Tab 3

34. ITS Plans

Estimator RLS

SR 417, Econtobatchee Trail to Seminole County Line
417 134

Representing	Print Name	Signature Date
FOOT District	Patrick Muench	4/2/17
CES	Kevin Knudsen	4/2/17

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
34.1	Key Sheet		Sheet	0	0	0	0	N/A
34.2	Summary of Pay Items including Designer Interface (Trans-port) Input		Sheet	0	0	0	0	N/A
34.3	Tabulation of Quantities		Sheet	1	5	1	5	
34.4	General Notes/Pay Item Notes		Sheet	0	0	0	0	N/A
34.5	Project Layout		Sheet	0	0	0	0	N/A
34.6	Typical and Special Details		Sheet	0	0	0	0	N/A
34.7	Plan Sheet		Sheet	0	0	0	0	N/A
34.8	ITS Communications Plans		Sheet	5	4	5	20	Aux Lane - 5 plan sheets, 100 scale
34.9	Fiber Optic Splice Diagrams		Sheet	0	0	0	0	N/A
34.10	Lighting Protection Plans		Sheet	0	0	0	0	N/A
34.11	Cross Sections		Sheet	0	0	0	0	N/A
34.12	Guide Sign Worksheet(s)		Sheet	0	0	0	0	N/A
34.13	Special Service Point Details		Sheet	0	0	0	0	N/A
34.14	Strain Pole Schedule		Sheet	0	0	0	0	N/A
34.15	Overhead/Candleover Sign Structure		Sheet	0	0	0	0	N/A
34.16	Other Overhead Sign Structures (Long Span, Monotube, etc.)		Sheet	0	0	0	0	N/A
34.17	Traffic Control Plans		Sheet	5	1	5	5	FON MOT Plan
34.18	Interim Standards		Sheet	0	0	0	0	N/A
34.19	GIS Data and Asset Management Requirements		LS	0	0	0	0	N/A

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34. ITS Plans

Task No.	Task	Scale	Units	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
	Intelligent Transportation System Plans Technical Subtotal							
34.20	Quality Assurance/Quality Control		LS	%	15%	11	30	
34.21	Supervision		LS	%	5%		2	
	34. Intelligent Transportation System Plans Total							
						11	34	

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: SR 417, Econ Trail to Sarnow County Line (SR417)
 County: Orange
 FPN: 417-134
 FAP No:

Consultant Name: The Blomquist Group
 Consultant No.: 3002017
 Date: 3/30/2017

Staff Classification	Year Staff Hours From Firm	Chief Engineer	Project Manager	Senior Engineer	Project Engineer	Engineer Intern	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. Environmental Permits, Compliance & Citations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Structures - Misc. Tasks, Design, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16. Structures - Mobile Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19. Signing & Pavement Marking Analysis	74	4	0	18	26	26	0	0	0	0	0	0	0	0	0	0
20. Signing & Pavement Marking Plans	57	3	0	6	22	26	0	0	0	0	0	0	0	0	0	0
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. Territorial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Staff Hours	131	7	0	24	48	53	0	0	0	0	0	0	0	131	\$4,687.89	\$37.16
Total Staff Cost		\$411.25	\$0.00	\$1,122.00	\$1,827.20	\$1,337.44	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$4,687.89	

SALARY RELATED COSTS:

OVERHEAD: 159.84%
 SUB-TOTAL SALARY-RELATED COSTS
 PROFIT MARGIN 12.00%
 EXPENSES:
 SUBTOTAL ESTIMATED FEE:
 Survey (Field) 0
 Geotechnical Field and Lab Testing
 SUBTOTAL ESTIMATED FEE:
 Optional Services
 GRAND TOTAL ESTIMATED FEE:

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

Project Activity 19: Signing and Pavement Marking Analysis

Estimator: S. Klaus

SR 417, Econ Trail to Seminole County Line (SA#1)
417-134

Representing	Print Name	Signature / Date
FDOT District	Patrick Moench	<i>Patrick Moench</i> 3/21/17
Consultant Name	The Balmoral Group	<i>Karin K. K. K.</i> 4/2/17

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	0	0	0	N/A
19.2	No Passing Zone Study	LS	0	0	0	N/A
19.3	Reference and Master Design File	LS	1	48	48	Mainline (Sta. 1232+00 to Sta. 283+00) = 1.0 miles; Ramps (SB UNIV-OFF=1000; SB AL-ON=1250) = 0.4 miles Originally 45 hours setup + 90 hrs./mile; Use 0 setup + 30 hrs. X 1.8 miles = 48 hrs.
19.4	Multi-Post Sign Support Calculations	EA	2	4	8	2 additional ground mounted guide signs (1 new, 1 relocate)
19.5	Sign Panel Design Analysis	EA	1	4	4	1 new multi-post ground mount affected by widening X 4 hrs. = 4 hrs.
19.6	Sign Lighting/Electrical Calculations	EA	0	0	0	By CES
19.7	Quantities	LS	0	0	0	Task accounted for in original hours
19.8	Cost Estimate	LS	0	0	0	Task accounted for in original hours
19.9	Technical Special Provisions	LS	0	0	0	N/A
19.10	Other Signing and Pavement Marking	LS	0	0	0	N/A
Signing and Pavement Marking Analysis Technical Subtotal						60
19.11	Field Reviews	LS	1	6	6	1 reviews X 2 people X 3 hrs. (incl. travel time) for additional sign inventory
19.12	Technical Meetings	LS	0	0	0	N/A
19.13	Quality Assurance/Quality Control	LS	%	5%	3	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	3	
Signing and Pavement Marking Analysis Nontechnical Subtotal						12
19.16	Coordination	LS	%	3%	2	
19. Signing and Pavement Marking Analysis Total						74

Project Activity 19: Signing and Pavement Marking Analysis



Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments	Number
Technical Meetings							
	Sign Panel Design	EA	0	0	0	PM Attendance at Meeting Required?	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		
	Progress Meetings (if required by FDOT)	EA	0	0	0	Subtotal Project Manager Meetings	0
	Phase Review Meetings	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3	--
	Total Meetings				0	PM attendance at Phase Review Meetings is manually entered on General Task 3	--
						Total Project Manager Meetings (carries to Tab 3)	0

Carried to Tab 3

Carried to Tab 3

Project Activity 20- Signing and Pavement Marking Plans

Estimator S. Klaus

SR 417 Ecan Trail to Seminole County Line (SA#1)
417-134

Representing	Print Name	Signature / Date
FDOT District	<i>Patrick Mwench</i>	<i>Patrick Mwench 3/31/17</i>
Consultant Name	The Balmoral Group Kevin Knutson	<i>4/2/17</i>

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20 1	Key Sheet		Sheet	5	0	0	0	N/A - included in roadway
20 2	Summary of Pay Items Including TRNS-Pori Input		LS	0	0		0	N/A - included in roadway
20 3	Tabulation of Quantities		Sheet	0	0	0	0	Task accounted for in original hours
20 4	General Notes/Pay Item Notes		Sheet	1	2	1	2	Review and incorporate necessary FTE SAPM notes
20 5	Project Layout		Sheet	0	0	0	0	Task accounted for in original hours
20 6	Plan Sheet	1"=50'	Sheet	11	1	11	11	Revise 11 plan sheets
20 7	Typical Details		EA	0	0	0	0	No additional details anticipated
20 8	Guide Sign Worksheet(s)		EA	1	8	1	8	1 new multi-post ground mount affected by widening
20 9	Traffic Monitoring Site		EA	0	0		0	N/A
20 10	Cross Sections		EA	5	6	5	30	Develop full section for 3 span truss & full sections for 2 ground mount (1 new, 1 relocate) 8 hrs. X 3 OH structure + 2 hrs. X 3 multi-post + 30 hrs
20 11	Special Service Point Details		EA	0			0	N/A
20 12	Special Details		LS	0			0	N/A
20 13	Interim Standards		LS	0			0	N/A
Signing and Pavement Marking Plans Technical Subtotal							18	
20 14	Quality Assurance/Quality Control		LS	%	5%		3	
20 15	Supervision		LS	%	5%		3	
20. Signing and Pavement Marking Plans Total							18	67

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project:
County:
FPN:
FAP No:

SR 417, Ecorlockhatchee Trail to Seminole County Line - Supplemental
Orange
417-134
1601900

Consultant Name:
Consultant No.:
Date:
Term:
Enter consultants proj number:
3/30/2017

Staff Classification	Project Manager	Senior Engineer	Chief Scientist	Senior Project Scientist	Senior Engineer	Geotechnical Engineer	Engineering Intern	Senior Scientist	Designer	Senior Engineering Technician	Geotechnical Technician	Secretarial/Clerical	Staff Classification	By Activity	Salary Cost By Activity	Average Rate Per Hour
1. Project General and Project Construction Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Environmental Permit, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. Structures - Misc. Tasks, Design, Non-Tech	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15. Structures - Moveable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29. Temporary Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34. Geotechnical	187	0	15	0	18	28	64	0	28	7	9	4	0	187	\$21,874.48	\$116.98
Total Staff Hours	187	0	15	0	18	28	64	0	28	7	9	4	0	187	\$21,874.48	\$116.98
Total Staff Cost	\$1,764.25	\$2,822.70	\$0.00	\$3,808.44	\$3,771.30	\$6,479.04	\$0.00	\$2,548.08	\$542.12	\$403.37	\$273.24	\$0.00	\$0.00	\$1,874.48	\$116.98	\$116.98

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

SALARY RELATED COSTS
 OVERHEAD: 0%
 OPERATING MARGIN: 0%
 FOCM (Facilities Capital Cost Money) EXPENSES: 0.00%
 SUBTOTAL ESTIMATED FEE: \$21,874.48
 Contingency: \$0.00
 Geotechnical Field and Lab Testing: \$16,610.84
 SUBTOTAL ESTIMATED FEE: \$38,485.40
 Optional Services: \$0.00
 GRAND TOTAL ESTIMATED FEE: \$38,485.40

35. Geotechnical

Estimator

SR 417, Econtochustches Trail to Seminole County Line - Supplemental
417 134

Representing	Print Name	Signature / Date
CFX	<i>Patrick Allen</i>	<i>[Signature]</i>
Tierra Inc	<i>Kevin Kavin</i>	<i>4/6/12</i>

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	0	0	0	N/A - Performed during Initial Investigation
35.2	Develop Detailed Boring Location Plan	LS	1	8	8	Per CFX Direction 40 roadway borings 8 SPTs - 20' 32 Augers - 5' Total 465 LF (180 LF SPT + 180 LF Augers)
35.3	Site Boring/Utility Clearance	Boring	40	0.25	10	
35.4	Muck Probing	Crew Day	0	0	0	Tierra will use separate pay item in fee schedule to perform muck probing.
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	0	0	0	N/A
35.6	Drilling Access Permits	Location	1	8	8	Permit for work within Seminole County - FL Turnpike ROW
35.7	Property Clearances	EA	0	0	0	N/A - All Work within ROW
35.8	Groundwater Monitoring	EA	0	0	0	N/A
35.9	LBR/Resilient Modulus Sampling	EA	0	0	0	N/A - Performed during Initial Investigation
35.10	Coordination of Field Work	100 ft of boring	3.2	1	3	
35.11	Soil and Rock Classification - Roadway	100 ft of boring	3.2	2	6	
35.12	Design LBR	LS	0	0	0	N/A
35.13	Laboratory Data	100 ft of boring	3.2	0.75	2	
35.14	Seasonal High Water Table	Boring	40	0.2	8	
35.15	Parameters for Water Retention Areas	EA	0	0	0	
35.16	Delineate Limits of Unsuitable Material	Cross-section	6	1.2	7	Assume 6 cross sections @ 0.5 hr/cross section (3 hrs) + 2 plan reviews @ 2 hrs each (4 hrs) hrs
35.17	Electronic Files for Cross-Sections	100 ft of boring	3.2	1	3	
35.18	Embarkment Settlement and Stability	Embarkment Boring	0	0	0	N/A
35.19	Monitor Existing Structures	LS	0	0	0	N/A

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	To be performed by others.
35.21	Geotechnical Recommendations	LS	1	8	8	
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	0	0	0	Pavement Coring and Evaluation Not Required.
35.23	Preliminary Roadway Report	LS	1	8	8	To Be Included With Overall Report
35.24	Final Report	EA	1	12	12	To Be Included With Overall Report
35.25	Auger Boring Drafting	100 lf boring	1.6	4	6	
35.26	SPT Boring Drafting	100 lf boring	1.6	5	8	
Roadway Geotechnical Subtotal						97
Structures						
35.27	Develop Detailed Boring Location Plan	LS	1	4	4	Total Approx 1,600 LF of Gravity Walls and 3 Sign Structures
35.28	Stake Boring/Utility Clearance	Boring	7	0.4	3	Per CFX Direction: 3 Sign Structure Borings to 50' (150 LF) + 4 Wall Borings to 20' (80 LF) = 7 borings for 230 LF
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	0	0	0	N/A
35.30	Drilling Access Permits	Location	0	0	0	N/A - Tumpike Permit included with Roadway Investigation
35.31	Property Clearances	EA	0	0	0	N/A - All Work within ROW
35.32	Collection of Corrosion Samples	EA	0	0	0	To be collected at time of drilling.
35.33	Coordination of Field Work	100 lf of boring	2.3	1	2	
35.34	Soil and Rock Classification - Structures	100 lf of boring	2.3	2	5	
35.35	Tabulation of Laboratory Data	100 lf of boring	2.3	0.75	2	
35.36	Estimate Design Groundwater Level for Structures	EA	7	0.25	2	
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	0	0	0	N/A
35.38	Detailed Analysis of Selected Foundation Alternative(s)	Bridge boring	0	0	0	N/A
35.39	Bridge Construction and Testing Recommendations	Bridge boring	0	0	0	N/A
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	N/A
35.41	Walls	Wall Boring	2	2	4	Analyze all Walls - Use 1 Representative Boring Per Wall
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	0	0	0	N/A
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	3	1	3	3 Sign Structures

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.44	Box Culvert Analysis	EA	0	0	0	N/A - No Culvert Extensions.
35.45	Preliminary Report - BDR	EA	0	0	0	N/A
35.46	Final Report - Bridge and Associated Walls	EA	0	0	0	N/A
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	1	20	20	
35.48	SPT Boring Drafting	100 ft of boring	2.3	5	12	
35.49	Other Geotechnical	LS	0	0	0	N/A
Structural Geotechnical Subtotal					67	
Geotechnical Technical Subtotal					154	
35.50	Technical Special Provisions	EA	0	0	0	
35.51	Field Reviews	LS	1	8	8	
35.52	Technical Meetings	LS	1	4	4	Meetings listed below
35.53	Quality Assurance/Quality Control	LS	%	5%	8	
35.54	Supervision	LS	%	5%	8	
Geotechnical Nontechnical Subtotal					28	
35.55	Coordination	LS	%	3%	5	
35. Geotechnical Total					187	

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

Carries to Tab 3

Contract Number: 001153
Project Number: 5511-16-004

Tierra Inc
Table 6 Standard Fee Schedule 2016

SR 417 Widening from Econlockhatchee Tr
from Orange-Seminole CL - Supplemental

Item Description	Unit	Unit Price	Quantity	Total
Geotechnical Field Investigation				
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 337.00	1	\$ 337.00
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 500.00	1	\$ 500.00
610-Geo Mobilization Drill Rig Truck Mount	Each	\$ 3,110.00	0	\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 152.00	6	\$ 912.00
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 7,420.00	0	\$ -
405-Geo Barge (Owned)	Day	\$ 2,500.00	0	\$ -
618-Geo Mobilization Support Boat	Each	\$ 500.00	0	\$ -
Geo Support Safety Boat	Day	\$ 275.00	0	\$ -
619-Geo Mobilization Tri-Pod	Each	\$ 1,250.00	0	\$ -
419-Geo Drilling Crew 2-Person	Hour	\$ 135.00	0	\$ -
420-Geo Drilling Crew 3-Person	Hour	\$ 185.00	0	\$ -
Geo SPT Truck 0-50 Ft	LF	\$ 12.00	0	\$ -
Geo SPT Truck 50-100 Ft	LF	\$ 14.00	0	\$ -
Geo SPT Truck 100-150 Ft	LF	\$ 20.00	0	\$ -
Geo SPT Truck 150-200 Ft	LF	\$ 39.00	0	\$ -
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	\$ 12.50	390	\$ 4,875.00
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 16.00	0	\$ -
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 27.50	0	\$ -
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 42.00	0	\$ -
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 18.50	0	\$ -
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 25.00	0	\$ -
475-Geo SPT Barge/Track/Amphibious 100-150 Ft	LF	\$ 40.00	0	\$ -
476-Geo SPT Barge/Track/Amphibious 150-200 Ft	LF	\$ 70.00	0	\$ -
Geo Grout Boreholes- Truck 0-050 Ft	LF	\$ 4.50	0	\$ -
Geo Grout Boreholes- Truck 50-100 Ft	LF	\$ 5.00	0	\$ -
Geo Grout Boreholes- Truck 100-150 Ft	LF	\$ 5.50	0	\$ -
Geo Grout Boreholes- Truck 150-200 Ft	LF	\$ 14.00	0	\$ -
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 5.95	390	\$ 2,320.50
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 7.10	0	\$ -
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 9.00	0	\$ -
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00	0	\$ -
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 8.50	0	\$ -
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 9.00	0	\$ -
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 10.00	0	\$ -
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00	0	\$ -
Geo Temp Casing 3" Truck 0-050 Ft	LF	\$ 7.50	0	\$ -
Geo Temp Casing 3" Truck 50-100 Ft	LF	\$ 8.75	0	\$ -
Geo Temp Casing 3" Truck 100-150 Ft	LF	\$ 10.50	0	\$ -
Geo Temp Casing 3" Truck 150-200 Ft	LF	\$ 15.00	0	\$ -

Contract Number: 001153
Project Number: 5511-16-004

Tierra Inc
Table 6 Standard Fee Schedule 2016

SR 417 Widening from Econlockhatchee Tr
from Orange-Seminole CL - Supplemental

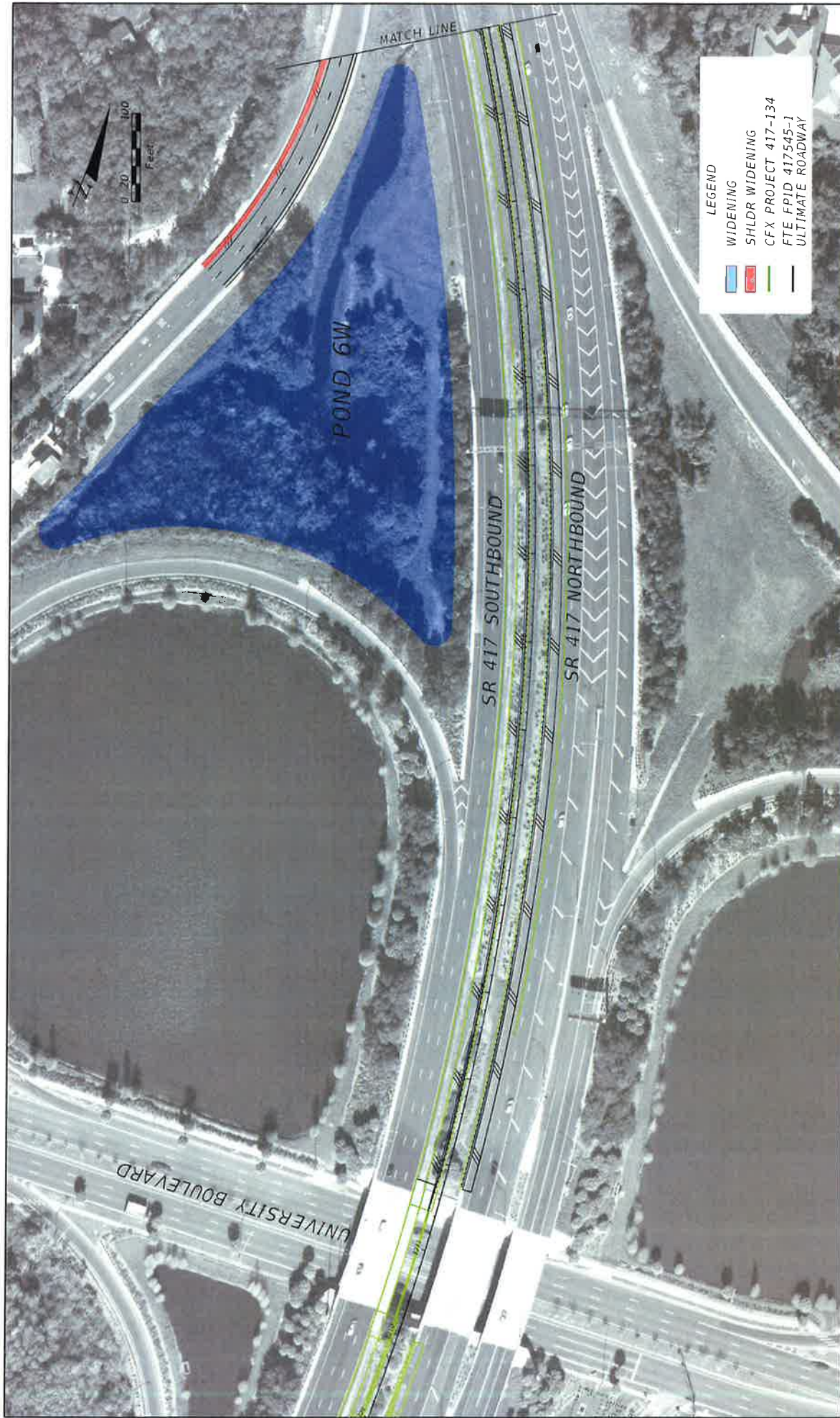
Item Description	Unit	Unit Price	Quantity	Total
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 9.80	80	\$ 784.00
489-Geo Temp Casing 3" Truck/Mud Bug 050-100 Ft	LF	\$ 12.75	0	\$ -
490-Geo Temp Casing 3" Truck/Mud Bug 100-150 Ft	LF	\$ 15.75	0	\$ -
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 22.00	0	\$ -
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 12.90	0	\$ -
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 14.70	0	\$ -
485-Geo Temp Casing 3" Barge/Track/Amphibious 100-150 Ft	LF	\$ 17.85	0	\$ -
486-Geo Temp Casing 3" Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00	0	\$ -
463-Geo Rock Coring Truck/Mud Bug 000-050 Ft less than 4" ID	LF	\$ 34.25	0	\$ -
465-Geo Rock Coring Truck/Mud Bug 050-100 Ft less than 4" ID	LF	\$ 36.55	0	\$ -
467-Geo Rock Coring Truck/Mud Bug 100-150 Ft less than 4" ID	LF	\$ 39.90	0	\$ -
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 45.79	0	\$ -
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 60.74	0	\$ -
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 65.00	0	\$ -
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00	0	\$ -
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 31.40	0	\$ -
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 36.44	0	\$ -
429-Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	\$ 42.20	0	\$ -
430-Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft	Each	\$ 85.00	0	\$ -
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 47.15	0	\$ -
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 54.80	0	\$ -
424-Geo Extra SPT Samples-Barge/Track/Amphibious 100-150 Ft	Each	\$ 63.30	0	\$ -
425-Geo Extra SPT Samples-Barge/Track/Amphibious 150-200 Ft	Each	\$ 85.00	0	\$ -
519-Geo Undisturbed Samples Truck/Mud Bug 000-050 Ft	Each	\$ 119.50	0	\$ -
520-Geo Undisturbed Samples Truck/Mud Bug 050-100 Ft	Each	\$ 130.40	0	\$ -
521-Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	\$ 195.80	0	\$ -
522-Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft	Each	\$ 200.00	0	\$ -
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 179.00	0	\$ -
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 195.80	0	\$ -
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 293.40	0	\$ -
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 375.00	0	\$ -
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 9.25	160	\$ 1,480.00
402-Geo Auger Borings- Track	LF	\$ 9.25	0	\$ -
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 270.00	0	\$ -
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 850.00	1	\$ 850.00
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 30.00	0	\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 6.25	0	\$ -
450.1 Piezometer Permit Cost Actual	Each	\$ 50.00	0	\$ -
403-Geo Backhoe (Owned)	Day	\$ 600.00	0	\$ -
416-Geo Dozer (Owned)	Day	\$ 800.00	0	\$ -
Site Clearing to Access Boring or Test Locations	Hour	\$ 150.00	4	\$ 600.00
407-Geo Chainsaw (Owned)	Day	\$ 28.00	0	\$ -
415-Geo Double Ring Infiltration (ASTM D3385)	Each	\$ 460.00	0	\$ -
434-Geo Ground Penetrating Radar (GPR)	Day	\$ 2,800.00	0	\$ -

Contract Number: 001153
Project Number: 5511-16-004

Terra Inc
Table 6 Standard Fee Schedule 2016

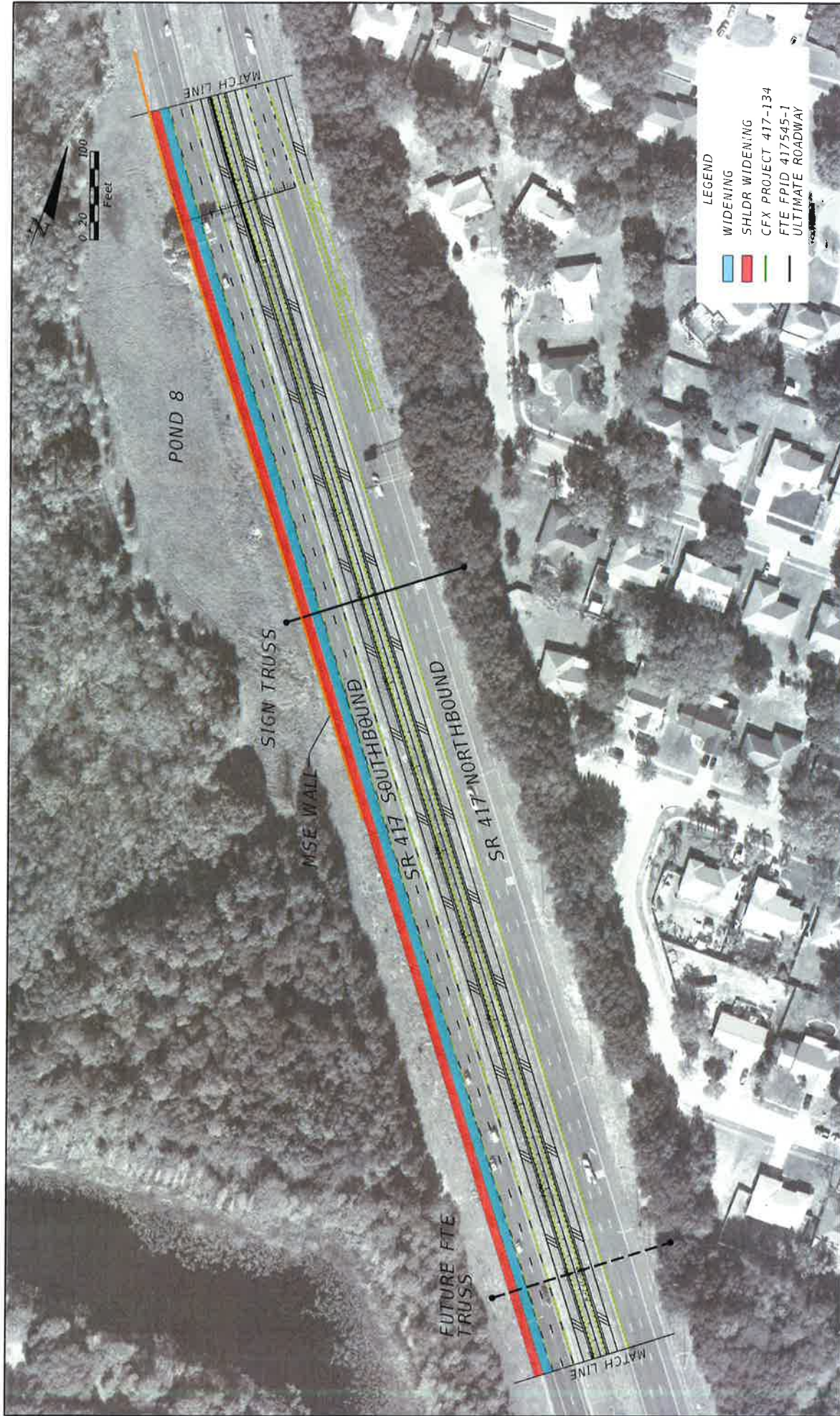
SR 417 Widening from Econlockhatchee Tr
from Orange-Seminole CL - Supplemental

Item Description	Unit	Unit Price	Quantity	Total
Asphalt and Concrete Pavement Coring				
209-Asphalt Pavement Coring - 4" dia with Base Depth Check	Each	\$ 125.00	0	\$ -
210-Asphalt Pavement Coring - 4" dia without Base Depth Check	Each	\$ 110.00	0	\$ -
211-Asphalt Pavement Coring - 6" dia with Base Depth Check	Each	\$ 125.00	0	\$ -
212-Asphalt Pavement Coring - 6" dia without Base Depth Check	Each	\$ 110.00	0	\$ -
305-Concrete Pavement Coring - 4" Dia	Each	\$ 110.00	0	\$ -
306-Concrete Pavement Coring - 8" Dia	Each	\$ 110.00	0	\$ -
803-Mobilization Asphalt Coring equipment	Each	\$ 250.00	0	\$ -
806-Mobilization Concrete Coring	Each	\$ 250.00	0	\$ -
Geotechnical Soil Laboratory Testing				
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 35.00	15	\$ 525.00
817-Soils Moisture Content Laboratory (AASHTO T 285)	Test	\$ 9.58	18	\$ 172.44
821-Soils Particle Size Analysis (AASHTO T 88) (Including Hydrometer)	Test	\$ 131.00	0	\$ -
822-Soils Particle Size Analysis (AASHTO T 88) (No Hydrometer)	Test	\$ 67.00	15	\$ 1,005.00
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 145.00	8	\$ 1,160.00
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 30.00	0	\$ -
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 35.00	0	\$ -
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 40.00	0	\$ -
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 40.00	0	\$ -
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 35.00	8	\$ 280.00
Atterberg Limit Tests (AASHTO T-89 and T-90) Combined	Test	\$ 81.00	10	\$ 810.00
826-Soils Plastic Limit & Plasticity Index (AASHTO T 80)	Test	\$ 81.00	0	\$ -
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 41.00	0	\$ -
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 155.00	0	\$ -
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 155.00	0	\$ -
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 115.00	0	\$ -
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 111.00	0	\$ -
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3987)	Test	\$ 105.00	0	\$ -
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 105.00	0	\$ -
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 500.00	0	\$ -
804-Soils Consolidation - Extended Load Increments (AASHTO T218)	Each	\$ 50.00	0	\$ -
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	\$ 250.00	0	\$ -
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)	Test	\$ 328.18	0	\$ -
Engineering and Technical Support Services				
Project Manager	Hour	\$ 198.25	9	\$ 1,784.25
Senior Engineer	Hour	\$ 188.18	15	\$ 2,822.70
Chief Scientist	Hour	\$ 151.47	0	\$ -
Senior Project Engineer	Hour	\$ 158.38	19	\$ 3,008.84
Geotechnical Engineer	Hour	\$ 134.69	28	\$ 3,771.32
Engineering Intern	Hour	\$ 95.28	68	\$ 6,479.04
Senior Scientist	Hour	\$ 117.34	0	\$ -
Designer	Hour	\$ 91.08	28	\$ 2,549.68
Sr Engineering Technician	Hour	\$ 83.16	7	\$ 582.12
Geotechnical Technician	Hour	\$ 67.03	9	\$ 603.27
Secretary/Clerical	Hour	\$ 68.31	4	\$ 273.24
Total Estimated Fee				\$ 38,485.40



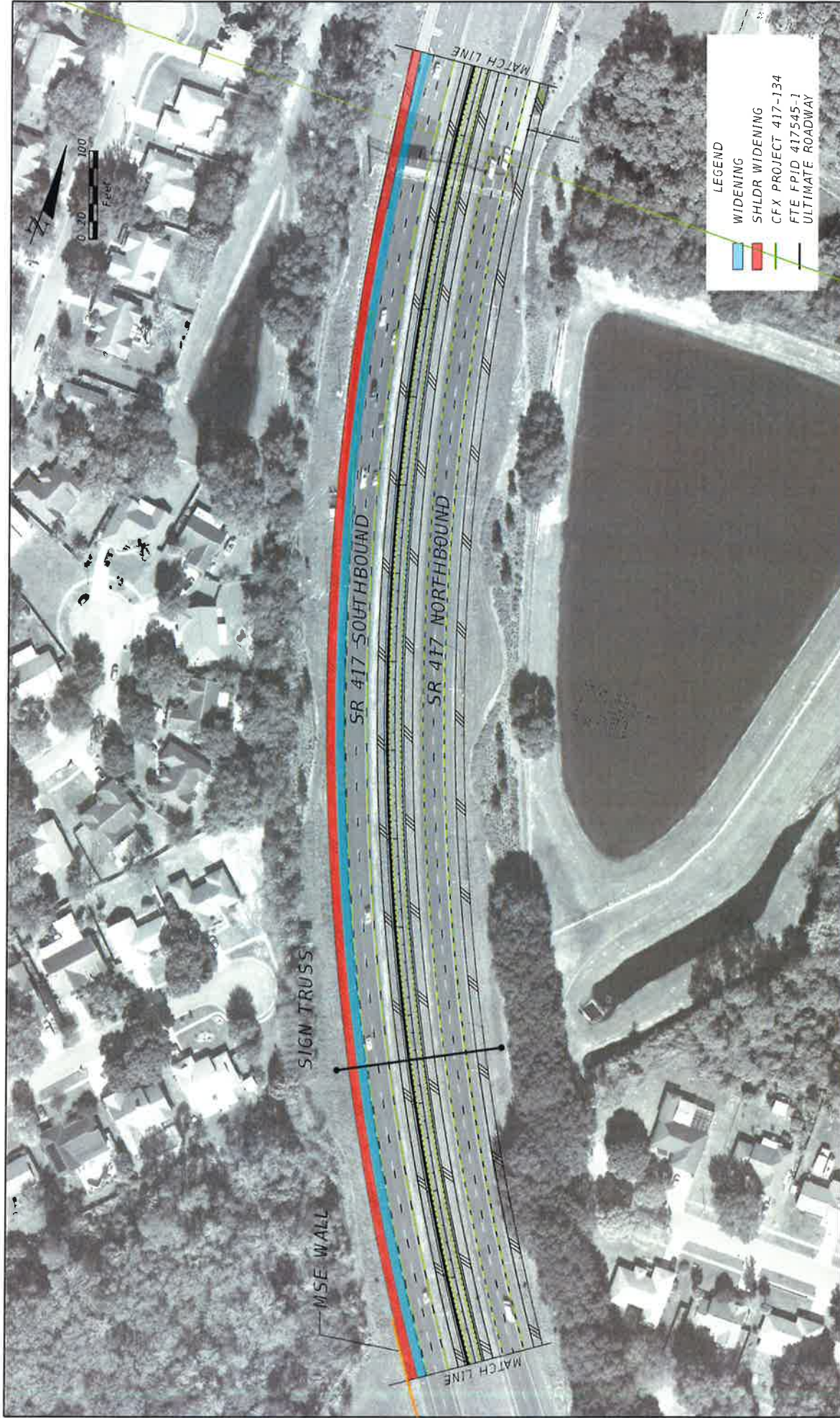
FTE FPID 417545-1
PROJECT COORDINATION

CFX PROJECT 417-134
SR 417 WIDENING SOUTH OF ECONLOCKHATCHEE
TRAIL TO ORANGE/SEMINOLE COUNTY LINE



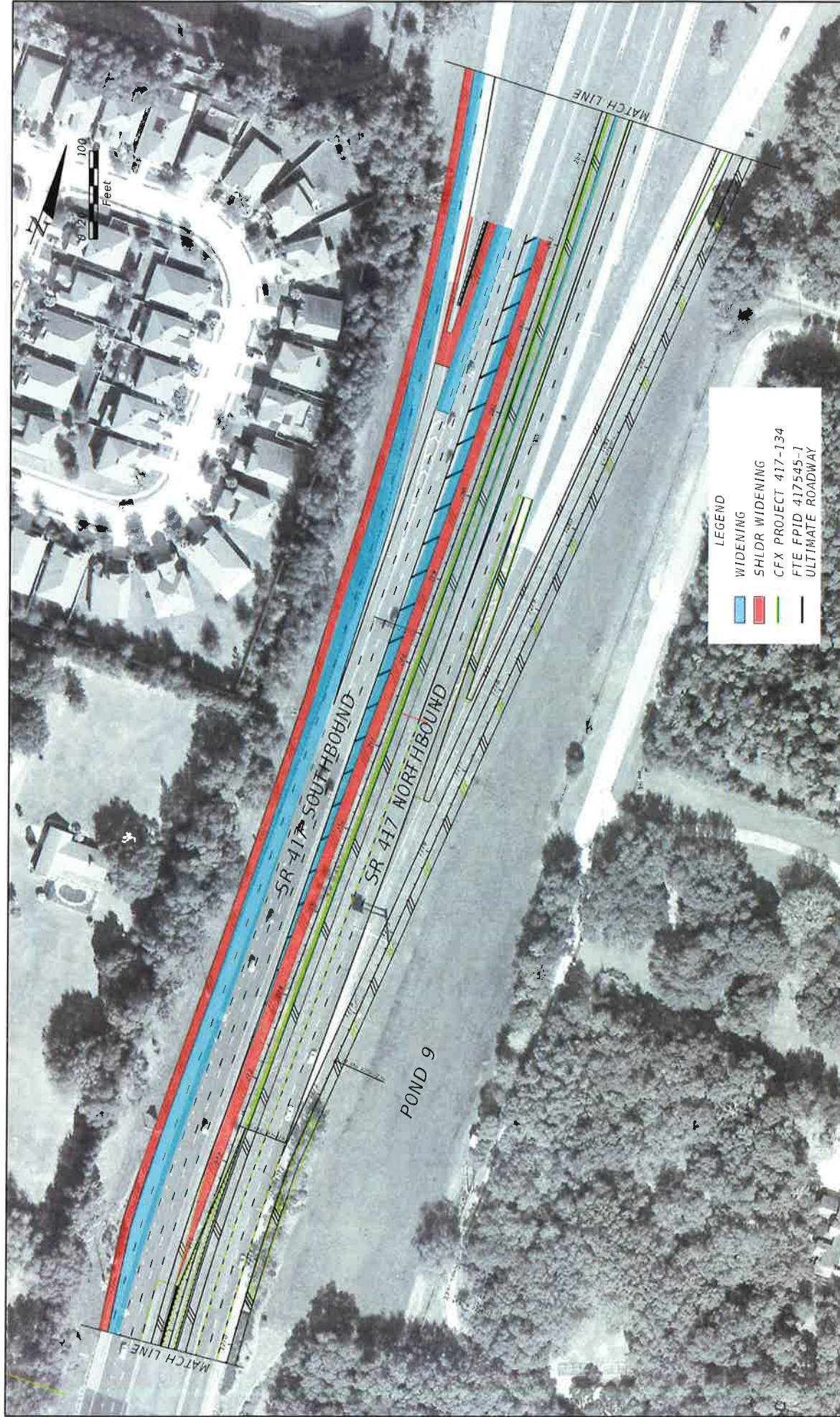
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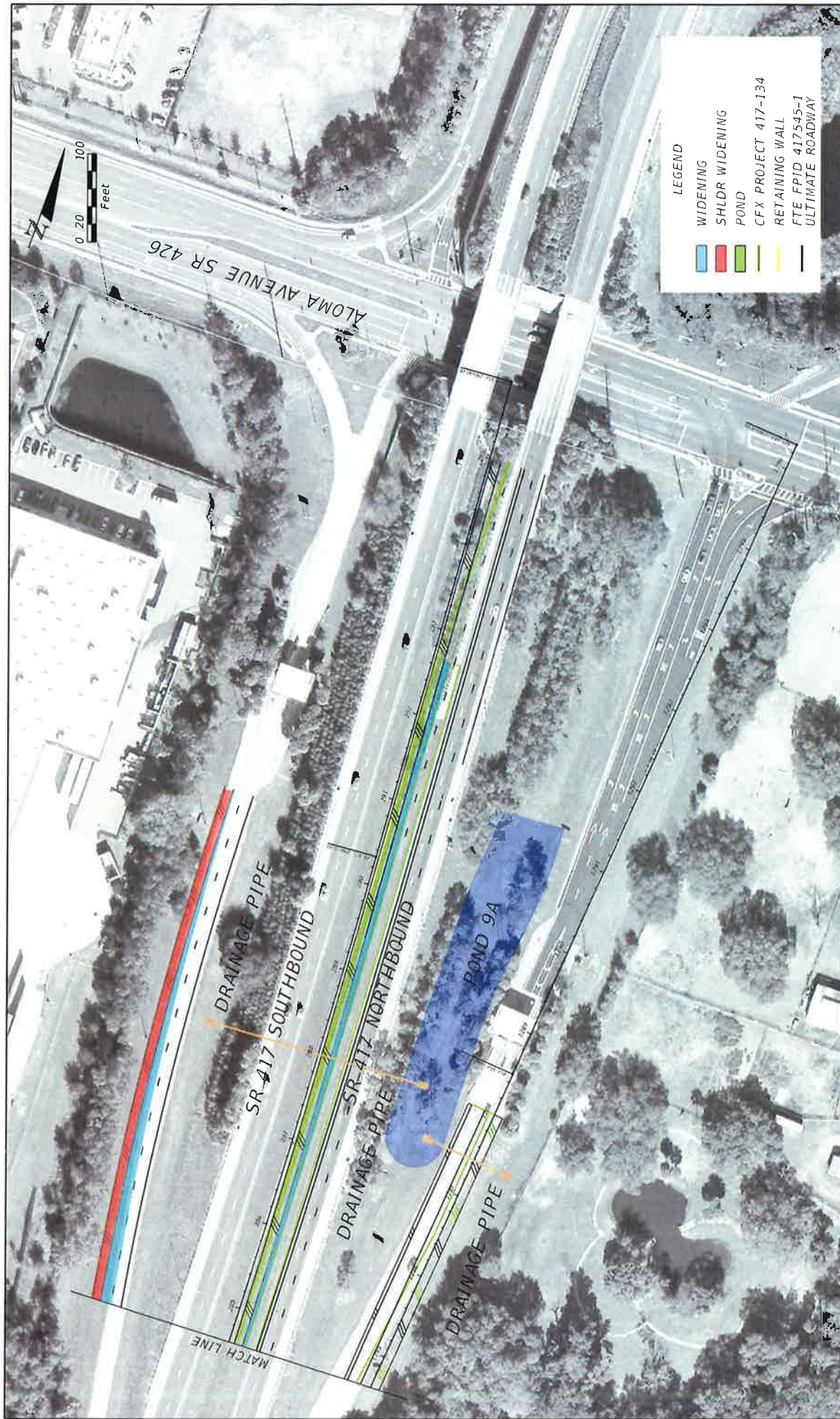


FTE FPID 417545-1
PROJECT COORDINATION

CFX PROJECT 417-134
SR 417 WIDENING SOUTH OF ECONLOCKHATCHEE
TRAIL TO ORANGE/SEMINOLE COUNTY LINE



FTE FPID 417545-1 PROJECT COORDINATION CFX PROJECT 417-134 SR 417 WIDENING SOUTH OF ECONLOCKHATCHEE TRAIL TO ORANGE/SEMINOLE COUNTY LINE	5 of 6
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FTE FPID 417545-1
PROJECT COORDINATION

CFX PROJECT 417-134
SR 417 WIDENING SOUTH OF ECONLOCKHATCHEE
TRAIL TO ORANGE/SEMINOLE COUNTY LINE

Attachment to Supplemental Agreement No.1
CFX Contract 001153

**Department Funded Agreement between Florida's Turnpike
Enterprise and the Central Florida Expressway Authority for
Improvements to the Central Florida GreeneWay (S.R. 417)
from Econlockhatchee Trail to the Seminole County Line**

CFX Project No. 417-134, CFX Contract No. 001153

**DEPARTMENT FUNDED AGREEMENT
BETWEEN
FLORIDA'S TURNPIKE ENTERPRISE AND
THE CENTRAL FLORIDA EXPRESSWAY AUTHORITY
FOR IMPROVEMENTS TO
THE CENTRAL FLORIDA GREENEWAY (S.R. 417)
FROM ECONLOCKHATCHEE TRAIL TO THE SEMINOLE COUNTY LINE
CFX PROJECT NO. 417-134, CFX CONTRACT NO. 001153**

This Agreement is made and entered into by and between **THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, FLORIDA'S TURNPIKE ENTERPRISE**, an executive agency of the State of Florida having a business address located at Florida's Turnpike Headquarters, Turkey Lake Service Plaza, Milepost 263, Florida's Turnpike, Building 5315, P.O. Box 613069, Ocoee, Florida 34761 (hereinafter referred to as "FTE" and sometimes referred to as "Department"), its successors and assigns, and the **CENTRAL FLORIDA EXPRESSWAY AUTHORITY**, an agency of the State of Florida, with a business address of 4974 ORL Tower Road, Orlando, Florida 32807 (hereinafter referred to as the "CFX").

WITNESSETH:

WHEREAS, FTE is authorized by Section 334.044(13), Florida Statutes, to coordinate the planning, development, and operation of the State Highway System;

WHEREAS, FTE is authorized under Section 338.2216(2), Florida Statutes, to plan, develop, own, purchase, lease, or otherwise acquire, demolish, construct, improve, relocate, equip, repair, maintain, operate, and manage the Florida Turnpike System; and to cooperate, coordinate, partner, and contract with other entities, public and private, to accomplish these purposes;

WHEREAS, CFX owns and operates the Central Florida Expressway Authority System, a system of limited access toll roads;

WHEREAS, FTE owns and operates the Florida Turnpike Enterprise System, a system of limited access toll roads;

WHEREAS, S.R. 417 is a limited access toll road forming the eastern beltway around the city of Orlando, portions of which are owned, operated, and maintained by CFX as part of the Central Florida Expressway System and portions of which are owned, operated and maintained by FTE as part of the Florida Turnpike Enterprise System;

WHEREAS, the northern jurisdictional limit between the Central Florida Expressway Authority System and the Florida Turnpike Enterprise System on S.R. 417 is the Orange/Seminole County Line;

WHEREAS, CFX is currently in the design phase for the widening of S.R. 417 from Econlockhatchee Trail north to the Orange/Seminole County Line, CFX Project No. 417-134 (hereinafter referred to as the "Project");

WHEREAS, the Engineer of Record for design services related to the Project is Dewberry Engineers, Inc. (hereinafter referred to as "Dewberry");

WHEREAS, Dewberry is currently under contract with CFX for design services related to the Project through CFX Contract No. 001153, attached as **Exhibit "A"**;

WHEREAS, design services provided by Dewberry related to the Project include the final design and preparation of construction drawings/specifications to provide six (6) general use lanes on S.R. 417 between Econlockhatchee Trail and the Orange/Seminole County line. Specifically, the project will include outside widening of S.R. 417 between Econlockhatchee Trail and the University Mainline Plaza, outside/median widening of S.R. 417 from the University Mainline Plaza to the Orange/Seminole County line, conversion of the S.R. 417 northbound and southbound inside cash lanes to express lanes and widening of the southbound S.R. 417 Bridge over University Boulevard. The project will also include the addition of one (1) northbound auxiliary lane and one (1) southbound auxiliary lane between the S.R. 50 / Colonial Drive ramps and the University Mainline Plaza and the addition of one (1) northbound auxiliary lane between the University Boulevard ramp and the S.R. 417 Aloma Avenue ramps;

WHEREAS, under FPID project number 427690-1-32-03, FTE has received an appropriation from the Florida legislature for design costs related to future capacity improvements on S.R. 417 within the Florida Turnpike Enterprise System between the Orange/Seminole County Line and Aloma Avenue, including without limitation, widening of the S.R. 417 mainline in the northbound and southbound directions to provide a total of eight (8) general use lanes (hereinafter referred to as the "FTE Improvements");

WHEREAS, for the mutual benefit of CFX and FTE customers traveling on S.R. 417 and to simplify the prosecution of work between the Project and FTE Improvements, FTE has requested that CFX enter into a Supplemental Agreement with Dewberry to provide additional design services related to a portion of the FTE Improvements (hereinafter referred to as the "FTE Project"). The scope of services for the FTE Project is attached as **Exhibit "B"**;

WHEREAS, FTE has agreed to provide an advance payment to CFX for all design fees associated with the Dewberry Supplemental Agreement for the FTE Project;

WHEREAS, a portion of the FTE Project will be designed in CFX's right of way, specifically one (1) southbound auxiliary lane between the Aloma Avenue ramp and the University Boulevard ramp; and

WHEREAS, CFX and FTE desire to formalize the terms and conditions for FTE's payment of the design fees to CFX for the FTE Project.

NOW THEREFORE, in consideration of the mutual benefits, conditions, promises, and covenants hereinafter set forth, and for other good and valuable consideration, the receipt and sufficiency of which is acknowledged, the parties agree as follows:

1. **Recitals.** The recitals set forth above are specifically incorporated herein by reference and made a part of this Agreement.

2. **FTE Project Scope of Work.** The FTE Project design services to be provided by CFX through CFX Contract No. 001153 are set forth in Exhibit "B". The total estimated cost of the FTE Project is \$416,197.12.
3. **Term.** The term of this Agreement shall begin upon the Effective Date (as defined in Section 22 below) and shall end on December 31, 2017. This Agreement will expire at the end of the term unless an extension of the term is requested by FTE prior to the expiration of the term and CFX grants such extension in writing.
4. **FTE's Responsibilities.**
 - a. The payment of funds under this Agreement will be made directly to CFX for deposit.
 - b. FTE shall designate a project manager for the FTE Project to coordinate with CFX's designated project manager for its Project.
 - c. FTE will provide phase submittal design reviews of the FTE Project within fourteen (14) business days from receipt of a phase submittal from Dewberry.
 - d. At the request of CFX, FTE will assist Dewberry with permit agency coordination pertaining to the Project and the FTE Project (collectively referred to as the "Projects").
 - e. FTE shall prepare a second Department Funded Agreement ("Second DFA") that addresses the ultimate construction of the FTE Project by CFX. CFX shall assist FTE with creation of a first draft of the Second DFA with the goal that such draft will be completed by June 30, 2017. Thereafter, CFX and FTE will work together to make modifications to the first draft of the Second DFA to the satisfaction of both parties. Such modifications shall not be unreasonably delayed by either party.

5. **CFX's Responsibilities.**

- a. In reliance upon FTE's advance payment of the above-referenced funds, CFX shall be responsible for executing a Supplemental Agreement with Dewberry in the same amount for design of the FTE Project.
- b. CFX shall designate a project manager for the FTE Project to manage and coordinate any and all matters between FTE's designated project manager for its FTE Project and Dewberry.
- c. All FTE Project plans preparation within FTE's right of way shall be in accordance with the current FDOT and TPPPH standards and specifications.
- d. Following completion and FTE acceptance of design services related to the FTE Project, CFX will prepare bidding documents and advertise the Projects for construction bids.

6. **Financial Provisions.**

- a. FTE shall advance an amount of \$332,957.70, which is equal to 80% of 100% of FTE's participation in the estimated cost of the FTE Project. The remaining 20% shall be withheld by FTE as a retainage amount to draw upon pursuant to subsection k. Any retainage amount that is not forfeited pursuant to subsection k will be paid to CFX upon FTE's acceptance of the work.
- b. The advance payment amount under 6.a shall be released after execution of this Agreement on or before June 30, 2017.
- c. The advanced amount must be accounted for separately from other funds of CFX.
- d. CFX shall invoice FTE upon completion of each deliverable for costs incurred. The amount advanced will be subtracted from each invoice only after such amounts are reviewed and approved by FTE's project manager.
- e. All invoices submitted to FTE must provide complete documentation, including a copy of the contractor's or consultant's invoice(s), to substantiate the cost on the invoice.
- f. CFX must certify on each invoice that the costs from the contractor(s) or consultant(s) are valid and have been incurred by the contractor(s) or consultant(s).
- g. Each monthly invoice subsequent to the first invoice from CFX must contain a statement from CFX that the previous month's cost incurred by the contractor(s) or consultant(s) has been paid by CFX to the contractor(s) or consultant(s).
- h. CFX will submit an invoice for the advance.
- i. Invoices shall be submitted by CFX in detail sufficient for a proper pre-audit and post audit based on the quantifiable, measurable and verifiable units of deliverables as established in Exhibit B – Scope of Services. Deliverables must be received and accepted in writing by FTE's project manager prior to payments.
- j. There shall be no reimbursement for travel expenses under this Agreement.
- k. If FTE determines that the performance of Dewberry is unsatisfactory, FTE shall notify CFX of the deficiency to be corrected, which correction shall be made within a time-frame to be specified by FTE. CFX shall, within five days after notice from FTE, provide FTE with a corrective action plan describing how Dewberry will address all issues of contract non-performance, unacceptable performance, failure to meet the minimum performance levels, deliverable deficiencies, or contract non-compliance. If the corrective action plan is unacceptable to FTE, CFX shall be assessed a non-performance retainage equivalent to 10% of the total invoice amount. The retainage shall be applied to the invoice for the then-current billing period. The retainage shall be withheld until CFX resolves the deficiency. If the deficiency is subsequently resolved, CFX may bill FTE for the retained amount during the next billing period. If

CFX is unable to cause Dewberry to resolve the deficiency, the funds retained may be forfeited at the end of the Agreement's term.

- l. Any unused funds remaining at the conclusion/termination of the Agreement will be due to FTE within 180 days of the completion/termination of the project.
- m. If a payment to CFX from FTE is not available within 40 days, a separate interest penalty at a rate as established pursuant to Section 55.03(1), F.S., will be due and payable, in addition to the invoice amount, to CFX. Interest penalties of less than one (1) dollar will not be enforced unless CFX requests payment. Invoices that have to be returned to CFX because of CFX preparation errors will result in a delay in the payment. The invoice payment requirements do not start until a properly completed invoice is provided to the Department. (Section 215.422(3)(b), F.S.).
- n. A Vendor Ombudsman has been established within the Department of Financial Services. The duties of this individual include acting as an advocate for CFX who may be experiencing problems in obtaining timely payment(s) from a state agency. The Vendor Ombudsman may be contacted at (850) 413-5516 or by calling the Division of Consumer Services at 1-877-693-5236. (Section 215.422(5) and (7), F.S.).
- o. Records of costs incurred under the terms of this Agreement shall be maintained and made available upon request to the Department at all times during the period of this Agreement and for three (3) years after final payment is made. Copies of these documents and records shall be furnished to the Department upon request. Records of costs incurred include CFX's general accounting records and the FTE Project records, together with supporting documents and records, of the contractor and all subcontractors performing work on the FTE Project, and all other records of the Contractor and subcontractors considered necessary by the Department for a proper audit of costs. (Section 287.058(4), F.S.).
- p. In the event this contract is for services in excess of \$25,000.00 and a term for a period of more than 1 year, the provisions of Section 339.135(6)(a), F.S., are hereby incorporated:

"The Department, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The Department shall require a statement from the Comptroller of the Department that such funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding 1 year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the Department

which are for an amount in excess of \$25,000.00 and which have a term for a period of more than 1 year."

- q. The Department's obligation to pay is contingent upon an annual appropriation by the Florida Legislature. (Section 216.311, F.S.).

7. CFX and its contractor Dewberry shall:

- a. Utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the CFX during the term of this Agreement; and
- b. Expressly require any contractors and subcontractors performing work or providing services pursuant to this Agreement to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

(Executive Order Number 11-116).

- 8. CFX shall cause Dewberry to add FTE as an additional insured under the Commercial General Liability coverage and Business Automobile Liability Coverage insurance policies provided for in sections 16.1 and 16.2 of the "Scope of Work" in CFX Contract No. 001153, attached as Exhibit "A," as provided by law. The insurance shall remain in effect until acceptance of the design work by FTE. Prior to commencement of the FTE Project and on such other occasions as either party may reasonably require, CFX shall provide FTE with certificates documenting that the required insurance coverage with Dewberry is in place and effective.
- 9. To the extent that there are design professional services subject to Section 725.08, Florida Statutes, and notwithstanding the provisions of Section 725.06, Florida Statutes, CFX shall cause Dewberry, through the execution of the Supplemental Agreement, to indemnify and hold harmless FTE and CFX, and their officers and employees, from liability, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of Dewberry and other persons employed or utilized by Dewberry in the performance of this Agreement. Nothing herein shall be construed to extend the limits of liability of CFX beyond that provided in Section 768.28, Florida Statutes. Nothing herein is intended as a waiver of CFX's sovereign immunity under Section 768.28, Florida Statutes. Nothing hereby shall inure to the benefit of any third party for any purpose, which might allow claims otherwise barred by sovereign immunity or operation of law. The parties shall notify each other in writing immediately upon becoming aware of such liabilities. The indemnities given by Dewberry in connection with the FTE Project shall survive termination of this Agreement. The insurance coverage and limits required in this Agreement may or may not be adequate to protect the FTE and such insurance coverage shall not be deemed a limitation of the indemnities to the FTE set forth in this Agreement. The provisions of this paragraph shall survive the expiration or earlier termination of this Agreement, in accordance with the laws

of the State of Florida. Furthermore, all of CFX's obligations under this Agreement are limited to the payment of no more than the amount limitation per person and in the aggregate contained in Section 768.28, Florida Statutes, even if the sovereign immunity limitations of that statute are not otherwise applicable to the matters as set forth herein.

10. **Notices; Service of Process.** All notices, requests, certificates, or other communications shall be sufficiently given and shall be deemed given when hand-delivered, mailed by registered or certified mail postage prepaid, return receipt required or overnight courier service with guaranteed next day delivery to the parties at the following addresses:

To FTE:

Executive Director & Chief Executive Officer
Florida's Turnpike Enterprise
Turnpike Headquarters -Bldg. 5315
P.O. Box 613069
Ocoee, FL 34761-3069

With Copy to:

Turnpike Chief Counsel
Turnpike Headquarters -Bldg. 5315
P.O. Box 613069
Ocoee, FL 34761-3069

To CFX:

Executive Director
Central Florida Expressway Authority
4974 ORL Tower Road
Orlando, Florida 32807

With Copy to:

General Counsel
Central Florida Expressway Authority
4794 ORL Tower Road
Orlando, FL 32807

Either of the above parties may, by notice in writing given to the other, alter the address to which communications or copies are to be sent by giving notice of such change of address in conformity with the provisions of this Section for the giving of notice.

11. **Sovereign Immunity.** Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the parties' respective sovereign immunity protections, or as increasing the limits of liability as set forth in Section 768.28, Florida Statutes.

12. **Entire Agreement.** This Agreement, including the exhibits to this Agreement, contain the sole and entire agreement between the parties with respect to their subject matter and supersede any and all other prior written or oral agreements between them with respect to such subject matter.
13. **Jurisdiction and Venue.** This Agreement is accepted and entered into in Florida and any question regarding its validity, construction, enforcement, or performance shall be governed by Florida law. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of this Agreement shall lie within a Florida circuit court having jurisdiction over the parties.
14. **Severability.** In the event any provision of this Agreement shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision hereof.
15. **Counterparts.** This Agreement may be simultaneously executed in several counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument.
16. **Public Records Law.** The parties shall allow public access to all public records made or received in conjunction with this Agreement and the performance thereof, in accordance with the provisions of Chapter 119, Florida Statutes.
17. **Modifications, Amendments, or Alterations.** No modification, amendment, or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.
18. **Waiver.** The failure of either party to insist on one or more occasions on the strict performance or compliance with any term or provision of this Agreement shall not be deemed a waiver or relinquished in the future of the enforcement thereof, and it shall continue in full force and effect unless waived or relinquished in writing by the party seeking to enforce the same. A modification or waiver of any of the provisions of this Agreement shall be effective only if made in writing and executed with the same formality as this Agreement.
19. **Assignment.** This Agreement may not be assigned without the written consent of the parties.
20. **Binding Effect.** This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. Nothing in this Agreement is intended to confer any rights, privileges, benefits, obligations or remedies upon any other person or entity except as expressly provided for herein.
21. **No Contingent Fees.** The parties warrant that they have not employed or obtained any company or person, other than their respective bona fide employees to solicit or to secure this Agreement and that they have not paid or agreed to pay any company, corporation, individual or firm, other than bona fide employees to solicit or secure this Agreement. For the breach or violation of this provision, CFX shall have the right to terminate the Agreement without liability at its discretion.

22. **Effective Date.** This Agreement shall become effective when all parties have signed it. The date this Agreement is signed by the last party to sign it (as indicated by the date stated under that party's signature) shall be deemed the effective date of this Agreement.

IN WITNESS WHEREOF, FTE and CFX have caused these present to be executed this Agreement for the purposes herein expressed on the dates indicated below. This Agreement was approved by the CFX's Board of Directors at its meeting on _____, 2017.

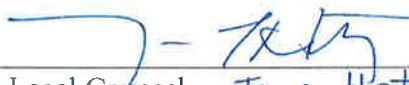
**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

BY: 
Executive Director & Chief Executive Officer
Florida's Turnpike Enterprise

DATE: 04/06/2017

ATTEST: 
Executive Secretary

Legal Review:

BY: 
Legal Counsel - James Hetz

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

BY: _____
Executive Director

Date: _____

ATTEST: _____
Executive Secretary

Legal Review:

BY: _____
General Counsel

Exhibits: **A.** *Contract No. 001153* and **B.** *Scope of Services for the FTE Project*