



Jacobs Civil Inc.
 18302 Highwoods Preserve Parkway, Suite 200
 Tampa, FL 33647
 813.977.3434
 Fax 813.977.3722

Ms. Lynda Crescentini
 Florida Department of Transportation
 11201 N. McKinley Dr.
 Project Management MS 7-600
 Tampa, FL. 33612

September 30, 2004

Re: FPN 2555991 Causeway Blvd.
 US41 / Causeway Blvd. Conceptual Estimate Task

Lynda,

As requested, enclosed is the completed **US 41 / Causeway Blvd. Interchange Conceptual Estimate** for your use in work program development. The package includes Jacobs' estimate of the PD&E effort cost, the Design cost, and the Construction cost, based on the enclosed plans we developed from the concept provided to us by Pittman-Hartenstein.

We have broken out this data in several ways to help the Department clearly analyze the costs for the specific components of the conceptual plan. These estimates have been prepared with our understanding of their very preliminary conceptual nature and include adequate contingencies for initial work program entry. Please note that the estimates do not include any right-of-way costs.

Should later updates or modifications to these estimates be needed to reflect any clarifications to the conceptual plan, we are prepared to assist with that update.

In summary of the data, we show the following (present day costs):

	<i>Estimate</i>	<i>25% Contingency</i>	<i>Total</i>
PD&E:	\$ 797,435	\$ 199,359	\$ 996,793
Design:	\$ 2,804,880	\$ 701,220	\$ 3,506,100
Construction: US 41 corridor:	\$31,370,428	\$7,842,607	\$39,213,035
Causeway Blvd:	<u>\$20,679,395</u>	\$5,169,849	<u>\$25,849,244</u>
Const. Total	\$52,049,823		\$65,062,279

Please call me if there is any way we can further assist the Department in preparing to address this complicated major interchange.

Sincerely,

Richard C. Rocktoff, P.E.
 Project Manager

cc: Yvonne Arens - FDOT
 Ron Glass - Jacobs Civil
 Tom Montgomery - Pittman-Hartenstein



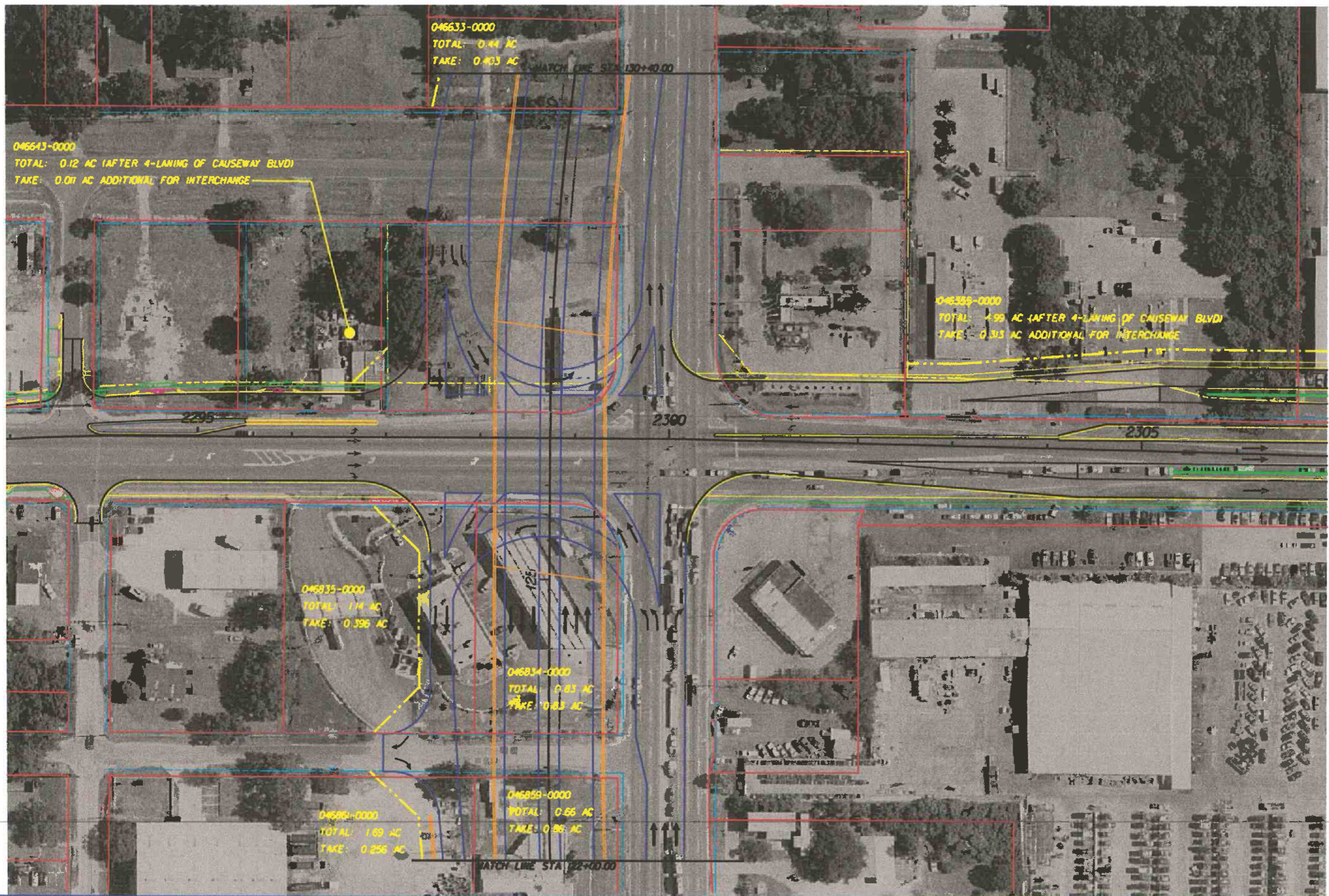
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

JE Jacobs Civil Inc.
 18302 Highwoods Preserve Parkway
 Highwoods Plaza, Suite 200
 Tampa, FL 33611
 Tel: (813) 977-3434
 CERTIFICATE OF AUTHORIZATION NO. 6572
 ENGINEER OF RECORD
 RICHARD C. ROCKTOFF P.E. No. 47032

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 676	HILLSBOROUGH	255599-1-52-01

PLAN SHEET
SR 676 (CAUSEWAY BLVD)

SHEET NO.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

JE Jacobs Civil Inc.
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 676	HILLSBOROUGH	255599-1-52-01

PLAN SHEET
SR 676 (CAUSEWAY BLVD)

SHEET NO.



046347-0000
 TOTAL: 10.55 AC (AFTER 4-LANING OF CAUSEWAY BLVD)
 TAKE: 0.989 AC (ADDITIONAL FOR INTERCHANGE)

046362-0000
 TOTAL: 3.92 AC (AFTER 4-LANING OF CAUSEWAY BLVD)
 TAKE: 0.748 AC (ADDITIONAL FOR INTERCHANGE)

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SHEET NO.



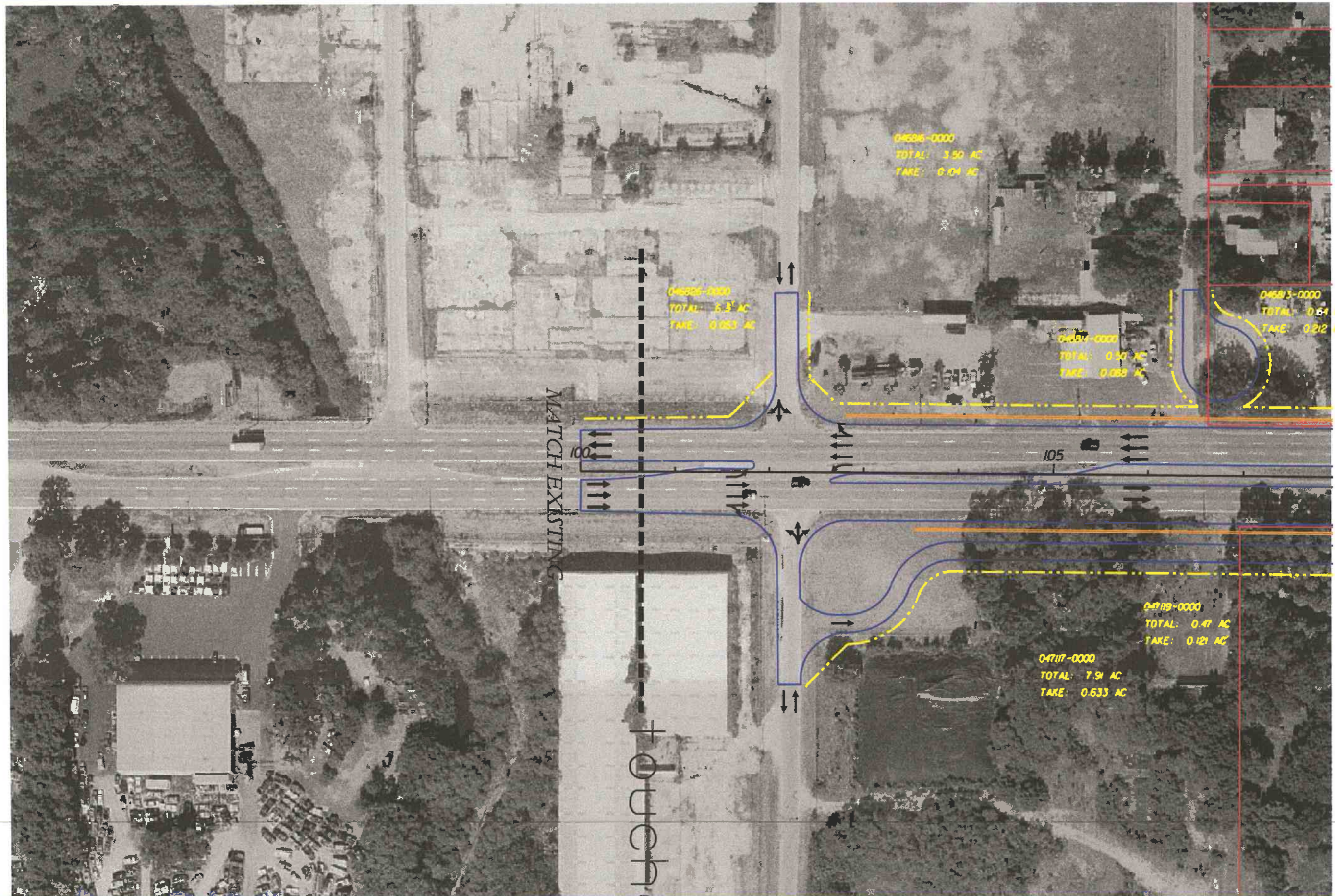
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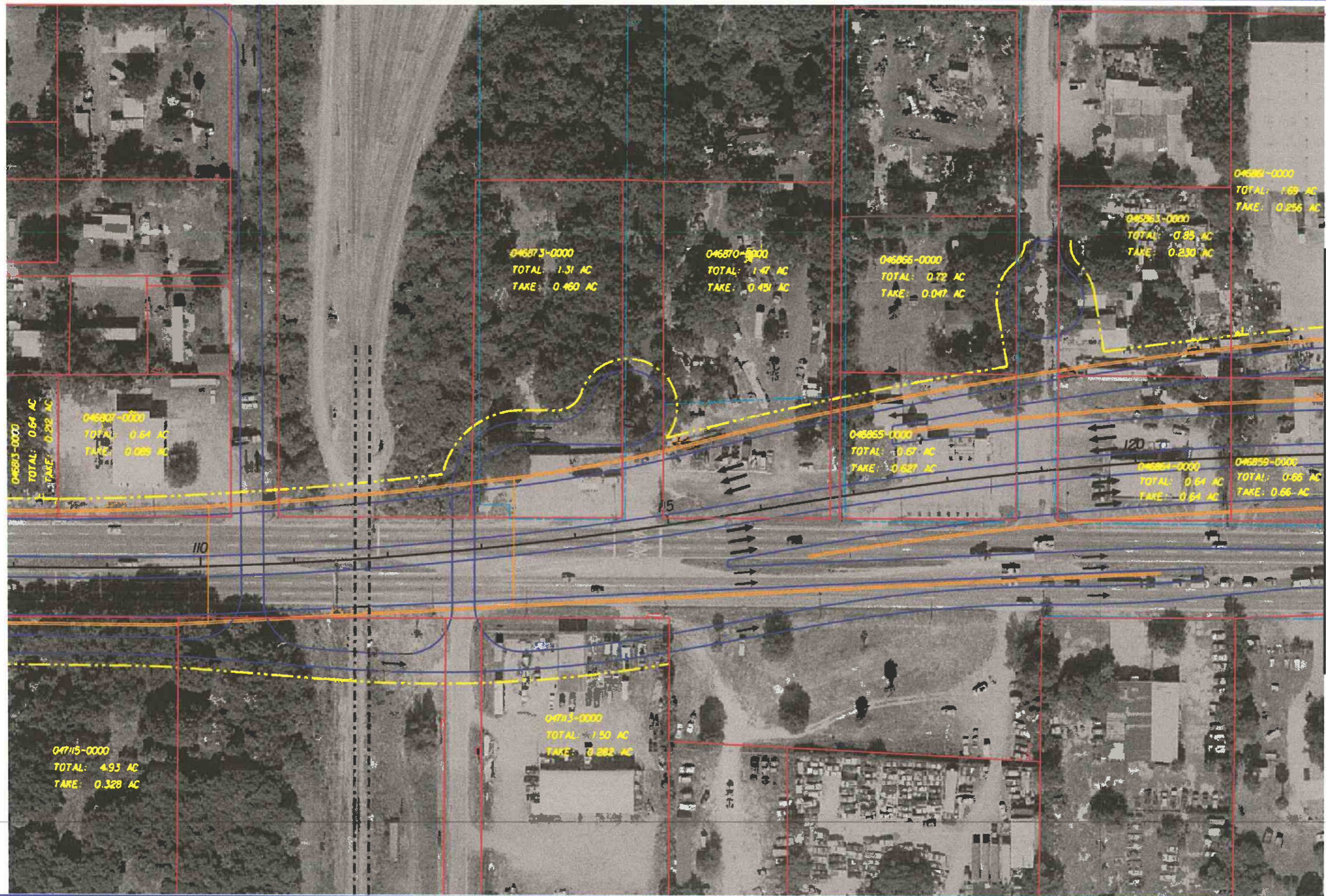
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 676	HILLSBOROUGH	255599-1-52-01

**PLAN SHEET
SR 45 (US 41)**

SHEET NO.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 676	HILLSBOROUGH	255599-1-52-01

PLAN SHEET
SR 45 (US 41)

SHEET NO.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 676	HILLSBOROUGH	255599-1-52-01

PLAN SHEET
SR 45 (US 41)

SHEET NO.

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Causeway Boulevard Interchange at US 41 PD&E Study
 County: Hillsborough
 FPN: 0
 FAP No.: 0

Consult. Name: Jacobs Civil Inc
 Consult. No.: B9X94900
 Date: 9/28/2004
 Estimator: Gene Keeler

Staff Classification	Total Staff Hours From "Site Summary - Firm"	Project Manager	Staff	Staff Classification 3	Staff Classification 4	Staff Classification 5	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
		\$55.00	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Public Involvement	1,727	173	1,554	0	0	0	0	0	0	0	0	0	0	1,727	\$63,905	\$37.00
Engineering Analysis & Report	4,207	421	3,786	0	0	0	0	0	0	0	0	0	0	4,207	\$155,665	\$37.00
Environmental Analysis & Reports	963	96	867	0	0	0	0	0	0	0	0	0	0	963	\$35,625	\$36.99
Miscellaneous	310	31	279	0	0	0	0	0	0	0	0	0	0	310	\$11,470	\$37.00
Total Staff Hours	7,207	721	6486	0	0	0	0	0	0	0	0	0	0	7,207		
Total Staff Cost		\$39,655.00	\$227,010.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$266,665.00	\$37.00

Check = \$266,665.00

SALARY RELATED COSTS:		\$266,665.00
OVERHEAD:	16.7%	\$445,330.55
SUBTOTAL:		\$711,995.55
OPERATING MARGIN:	12%	\$85,439.47
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES (Note 2):		\$0.00
Survey (Field)	0.00 4-man crew days / day	\$0.00
SUBTOTAL ESTIMATED FEE:		\$797,435.02
Optional Services		\$0.00
GRAND TOTAL ESTIMATED FEE:		\$797,435.02

Notes:

1. This sheet to be used by Subconsultant to calculate its fee.
2. Provide backup for the expense calculation in a format acceptable to the Department.

PUBLIC INVOLVEMENT

Estimator: Gene Keeler							Causeway Boulevard Interchange at US 41 PD&E Study
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments	
1.0	Public Involvement						
1.1	Public Involvement Program *	LS	1	40	40		
1.2	Public Involvement Data Collection	LS	1	80	80		
1.3	Notice of Intent *	LS	1	0	0		
1.4	Advance Notification *	LS	1	24	24		
1.5	Scheduled Public Meetings	LS	1	0	317		
	Scoping Meeting						
	Set Up/Scoping Package *				0		
	Participation				0		
	Elected Officials/Agency Kickoff Meeting						
	Set Up *				64	assumes 3 DOT staff briefings prior	
	Participation and notes				11	3 staff(1 hr travel + 2 hr meeting) + 2 hrs notes prep and dist	
	Public Kickoff Meeting						
	Set up *				0		
	Participation and notes				0		
	Corridor Public Meeting						
	Set up *				0		
	Participation and notes				0		

PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	Alternatives Public Meeting					
	Set up *				200	
	Participation and notes				42	8 staff(1 hr travel + 4 hr meeting) + 2 hrs notes prep and dist
1.6	Unscheduled Public and Agency Meetings	per meeting	10	8	80	2 staff(1 hr travel + 2 hr meeting) + 2 hrs notes prep and dist
1.7	Public Hearing	L.S.	1	0	262	
	Invitation / notification / setup / follow-up *				220	
	Participation				42	8 staff(1 hr travel + 4 hr meeting) + 2 hrs notes prep and dist
1.8	Location and Design Concept Acceptance	L.S.	1	8	8	
1.9	Special Public Involvement Requirements	L.S.	1	0	782	
	News Letters, Preparation / Distribution *		4	28	112	
	Web Site Development *		1	60	60	
	Web Site Maintenance *		20	4	80	
	Videos, Renderings, etc. *		2	265	530	
		Sub Total			1593	
	*subject to QC		% QC			
1.10	Quality Control	L.S.	10		134	
	PUBLIC INVOLVEMENT TOTAL HOURS				1727	

ENGINEERING ANALYSIS AND REPORT

Estimator: Gene Keeler							Causeway Boulevard Interchange at US 41 PD&E Study
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments	
2.0	ENGINEERING ANALYSIS and REPORTS						
	DATA COLLECTION						
2.1	Field Review	L.S.	5	10	50	2 staff * (4 hrs on site ea + 1 hour travel)	
2.2	Aerial Photography	L.S.	1	16	16		
2.3	Survey Coordination	L.S.	1	32	32		
2.4	Existing Roadway Characteristics	L.S.	1	40	40		
2.5	Existing Structures Characteristics	per struct.	0	0	0		
2.6	Traffic Data	L.S.	1	80	80	counts, historic data, etc.	
2.7	Crash Data	L.S.	1	8	8		
2.8	Existing Signage Inventory	L.S.	1	8	8		
2.9	Utilities	L.S.	1	24	24		
2.10	Railroads	L.S.	1	40	40	2 new rr overpasses	
2.11	Transportation Plans	L.S.	1	8	8		
2.12	Soils	L.S.	1	6	6		
2.13	Base map *	Per sheet	18	24	432	18 sheets highly urban, 2 rr crossings 2 major roads	
	NEEDS						
2.14	Safety *	L.S.	1	36	36		
2.15	Analysis of Existing Conditions *	L.S.	1	120	120		
2.16	Development of Need Statement *	L.S.	1	16	16		

ENGINEERING ANALYSIS AND REPORT

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	DESIGN ANALYSIS					
2.17	Corridor Analysis *	L.S.	1	4	4	existing corridor
2.18	Traffic Analysis	L.S.	1	0	510	
	Design Traffic *				240	
	Traffic Operational Analysis *				190	
	Design Traffic Documentation *				80	
2.19	Typical Section Analysis *	L.S.	1	32	32	
2.20	Roadway Design Alternatives *	L.S.	1	240	240	
2.21	Prepare Concept Plans *	per Sheet	18	12	216	
2.22	Drainage Analysis and Pond Siting Report *	per Basin	5	100	500	
2.23	Structures *	LS	1	450	450	
2.24	Access Management *	LS	1	40	40	
2.25	Multi-modal Accommodations *	LS	1	12	12	
2.26	Maintenance of Traffic Analysis *	LS	1	80	80	
2.27	Geotechnical Coordination	LS	1	16	16	
2.28	Intelligent Transportation Systems *	LS	1	0	0	
	COMPARATIVE ANALYSIS OF ALTERNATIVES					
2.29	Comparative Analysis and Evaluation Matrix *	LS	1	36	36	
2.30	Selection of Alternative(s) *	LS	1	16	16	

ENGINEERING ANALYSIS AND REPORT

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
2.31	Conceptual Design Plans (preferred) *	per sheet	18	6	108	
2.32	Identify Construction Segments *	LS	1	24	24	
2.33	Value Engineering	per study	0	40	0	
2.34	Construction Cost Estimates *	LS	1	40	40	
2.35	Right of Way Cost Estimates	LS	1	0	82	
	Notes and Maps for Estimate *				32	
	Preparation Cost Estimate *				50	
2.36	Typical Section Package *	LS	1	32	32	
2.37	Design Exceptions and Variations *	LS	1	20	20	
2.38	Preliminary Engineering Report (PER)	LS	1	0	480	
	First Draft *				250	
	Second Draft *				140	
	Final *				90	
2.39	IMR / IJR *	LS	1	0	0	
		Sub Total			3854	
	*Subject to QC		% QC			
2.40	Quality Control	LS	10		353	
	ENGINEERING TOTAL HOURS				4207	

ENVIRONMENTAL ANALYSIS AND REPORTS

Causeway Boulevard Interchange at US 41 PD&E Study

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
3.0	ENVIRONMENTAL ANALYSIS and REPORTS					
	SOCIAL IMPACTS					
3.1	Land Use Changes *	LS	1	24	24	
3.2	Community Cohesion *	LS	1	16	16	
3.3	Community Services *	LS	1	12	12	
3.4	Social and Economic Impacts *	LS	1	32	32	
3.5	Relocation Potential	LS	1	0	60	
	Concept Stage Relocation Plan *				40	
	Review and Impact Determination *				20	
3.6	Archaeological and Historical Sites *	LS	1	60	60	
3.7	Section 4(f)	LS	1	0	0	
	Section 4 (f) Applicability *				0	
	Section 4 (f) Statement *				0	
3.8	Visual Impacts and Aesthetics *	LS	1	12	12	
3.9	Utilities & Railroad *	LS	1	80	80	
	NATURAL IMPACTS					

ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
3.10	Wetlands	LS	1	0	40	
	Data Collection				24	1/2 mile out from intersection w 41 on all 4 approaches
	Evaluation/Report *				16	
3.11	Conceptual Mitigation Plan *	LS	1	4	4	
3.12	Water Quality *	LS	1	8	8	
3.13	Outstanding Florida Waters, Wild And Scenic Rivers, And Aquatic Preserves *	LS	1	1	1	
3.14	Floodplains *	LS	1	40	40	
3.15	Coastal Barrier Resource *	LS	1	0	0	
3.16	Wildlife and Habitat	LS	1	0	22	
	Data collection				12	
	Analysis and report *				10	
	Mitigation Plan *				0	
3.17	Identify Permit Conditions *	LS	1	12	12	
3.18	Farmlands *	LS	1	2	2	
	PHYSICAL IMPACTS					
3.19	Noise	LS	1	0	122	
	Data collection, and field work				50	
	Analysis *				40	abatement not physicall feasible
	Report *				32	

ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
3.20	Air Quality	LS	1	0	52	
	Screening Analysis *				16	
	Air Quality Modeling *				36	optional
3.21	Construction Impact Analysis *	LS	1	8	8	
3.22	Contamination	LS	1	0	120	
	Field Data				40	
	Analysis/Report *				80	
	ENVIRONMENTAL REPORTS					
3.23	Class of Action Determination *	LS	1	160	160	assumes Type 2 CEX
3.24	Environmental Assessment *	LS	1	0	0	
3.25	FONSI *	LS	1	0	0	
3.26	Draft EIS *	LS	1	0	0	
3.27	Final EIS *	LS	1	0	0	
		Sub Total			887	
		* Subject to QC		% QC		
3.28	Quality Control	LS	10		76	
	ENVIRONMENTAL TOTAL HOURS				963	

MISCELLANEOUS

Estimator: Gene Keeler							Causeway Boulevard Interchange at US 41 PD&E Study
							0
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments	
4.0	MISCELLANEOUS SERVICES						
4.1	Contract and Project Files	LS	1	110	110		
4.2	Project Management Meetings and Coordination	LS	20	3	60	1pm* (2 hrs+1 hr travel)	
4.3	ADDITIONAL SERVICES						
	Geotechnical				40	office time	
	Survey and mapping				100	office time	
	MISC. TOTAL HOURS				310		
	SUMMARY						
	PUBLIC INVOLVEMENT				1727		
	ENGINEERING ANALYSIS AND REPORTS				4207		
	ENVIRONMENTAL ANALYSIS AND REPORTS				963		
	MISCELLANEOUS				310		
	PROJECT TOTAL HOURS				7207		

ESTIMATE OF WORK EFFORT - COST - PRIME CONSULTANT

Name of Project: US 41/ Causeway Blvd. Interchange Design
 County: Hillsborough
 FPN:
 FAP No.:

Consultant Name: Jacobs Civil Inc.
 Consultant No.:
 Date: 9/26/2004
 Estimator: Dwayne Darbonne

Staff Classification	Total Staff Hours From *SH Summary -	Chief Engineer	Senior Engineer	Project Manager	Project Engineer	Engineer	Engineering Intern	Designer	Senior Engineer Technician	0	0	0	0	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$57.89	\$42.89	\$56.18	\$41.09	\$34.87	\$26.04	\$26.35	\$22.29	\$0.00	\$0.00	\$0.00	\$0.00			
3. Project General Tasks	700	35	105	70	70	210	105	105	0	0	0	0	0	700	\$26,446	\$37.78
4. Roadway Analysis	2,877	144	432	288	288	863	432	432	0	0	0	0	0	2,879	\$108,770	\$37.78
5. Roadway Plans	3,594	180	539	359	359	1,078	539	539	0	0	0	0	0	3,593	\$135,741	\$37.78
6. Drainage Analysis	1,677	84	252	168	168	503	252	252	0	0	0	0	0	1,679	\$63,435	\$37.78
7. Utilities	319	16	48	32	32	96	48	48	0	0	0	0	0	320	\$12,089	\$37.78
8. Environmental Permits	571	29	86	57	57	171	86	86	0	0	0	0	0	572	\$21,612	\$37.78
9. Structure Summary	1,365	68	205	137	137	410	205	205	0	0	0	0	0	1,367	\$51,645	\$37.78
10. Structures - BDR	1,430	72	215	143	143	429	215	215	0	0	0	0	0	1,432	\$54,103	\$37.78
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel	3,424	171	514	342	342	1,027	514	514	0	0	0	0	0	3,424	\$129,339	\$37.77
15. Structures - Segmental Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	658	33	99	66	66	197	99	99	0	0	0	0	0	659	\$24,900	\$37.78
18. Structures - Miscellaneous	304	15	46	30	30	91	46	46	0	0	0	0	0	304	\$11,467	\$37.72
19. Signing & Marking Analysis	738	37	111	74	74	221	111	111	0	0	0	0	0	739	\$27,922	\$37.78
20. Signing & Marking Plans	304	15	46	30	30	91	46	46	0	0	0	0	0	304	\$11,467	\$37.72
21. Signalization Analysis	489	24	73	49	49	147	73	73	0	0	0	0	0	488	\$18,434	\$37.77
22. Signalization Plans	266	13	40	27	27	80	40	40	0	0	0	0	0	267	\$10,088	\$37.78
23. Lighting Analysis	950	48	143	95	95	285	143	143	0	0	0	0	0	952	\$35,968	\$37.78
24. Lighting Plans	350	18	53	35	35	105	53	53	0	0	0	0	0	352	\$13,301	\$37.79
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	20,016	1002	3007	2002	2002	6004	3007	3007	0	0	0	0	0	20,031		
Total Staff Cost		\$57,705.18	\$128,368.83	\$112,472.36	\$82,262.18	\$209,359.48	\$78,302.28	\$88,255.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$756,725.76	\$37.78

Check = \$756,725.76

Form Revised 11/18/02

Survey Field Days by Subconsultant
 4 - Person Crew:

SALARY RELATED COSTS:		\$756,725.76
OVERHEAD:	167%	\$1,263,732.02
SUBTOTAL:		\$2,020,457.78
OPERATING MARGIN:	15%	\$303,068.67
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES (Note 3):		\$1,353.05
Survey (Field - if by Prime)	0.00	\$0.00
SUBTOTAL ESTIMATED FEE:		\$2,324,879.50
Subconsultant: Surveying & Mapping		\$250,000.00
Subconsultant: Geotechnical Services		\$200,000.00
Subconsultant: Ecological Services		\$80,000.00
Subconsultant: Hazmat		\$10,000.00
Subconsultant: 0		\$0.00
Subconsultant: 0		\$0.00
Subconsultant: 0		\$0.00
Subconsultant: 0		\$0.00
Subconsultant: 0		\$0.00
Subconsultant: 0		\$0.00
Subconsultant: 0		\$0.00
Subconsultant: 0		\$0.00
Subconsultant: 0		\$0.00
SUBTOTAL ESTIMATED FEE:		\$2,804,879.50
Geotechnical Field and Lab Testing		\$0.00
SUBTOTAL ESTIMATED FEE:		\$2,804,879.50
Optional Services		\$0.00
GRAND TOTAL ESTIMATED FEE:		\$2,804,879.50

Notes:

- This sheet to be used by Prime Consultant to calculate the Grand Total fee.
- Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.
- Provide backup for the expense calculation in a format acceptable to the Department.

Financial Project Identification Number: _____ Federal Aid Project Identification Number: _____

Name of Prime / Subconsultant: Jacobs Civil Inc. County: Hillsborough

Project Description: US 41/ Causeway Blvd. Interchange Design

Begin Milepost: _____ End Milepost: _____ Project Length: _____ Miles

Number of Lanes: Six Typical Section: Urban (Urban / Rural / Int.) Lane Configuration: Divided (Divided / Undivided)

Project Type: Major (Minor / Major) Access Management Classification: _____ Roadway Classification: _____ (NHS/FIHS/Off Sys.):

CAP Level: _____ TCP Level: N/A Survey Level: _____

Variances:

1. _____	Exceptions: 1. _____
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____

Proposed Design Contract Time: _____ months

Project Preliminary Design Specifics:

Roadway	Y	<===Roadway Plan Type (Plan/Profile, Plan Only, etc.)
Drainage	Y	<===Number of Drainage Structures
Utility coordination	Y	<===Number of Effected Utilities
Structures - Bridges	3	<=== Bridge Structures? (Y/N, number)
Structures - Retaining Walls	Y	<=== Retaining Walls? (Y/N, number)
Structures - Misc. Structures	Y	<=== Miscellaneous Structures? (Y/N, number)
Permits	Y	<===Permits Required (WMD, ACOE, Local Permits, etc.)
Signing and PM	Y	<===Signing & Pavement Marking Plans Required? (Y / N)
Signalization Intersections	Y	<===Number of Intersections Requiring Signals:
Non-Signalized Int.	Y	<===Number of Non-Signalized Intersections
Traffic Control	3	<===Number of phases requiring detailed phase drawings
Landscaping	N	<===Landscaping Plans Required? (Y / N)
Right of Way	Y	<===Right Of Way Plans Required? (Y / N)
Lighting	Y	<===Lighting Plans Required? (Y / N)
Architecture	N	<===Architectural Plans Required? (Y / N)
Geotech	Y	<===Geotechnical Consultant Services Required? (Y / N)
Survey	Y	<===Survey Consultant Services Required? (Y / N)
JPAs	Y	<===JPAs Prepared by Consultant? (Y / N, if so how many?)
Mitigation Plan	N	<===Mitigation Plans Required? (Y / N)
Specifications Package	Y	<===Specifications Package to be Prepared by Consultant? (Y / N)

revised 11/18/02

Project Activity 3: General Tasks

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
3.1	Public Involvement	LS	1	240	240	Level III 240 hrs.
3.2	Joint Project Agreements	EA	2	24	48	Assume JPA's for Water and Sewer Mains
3.3	Specifications Package Preparation	LS	1	60	60	
3.4	Contract Maintenance	LS	1	216	216	LS =24 hrs; 8 hrs./ month for 24 months
3.5	Value Engineering (Multi-discipline Team) Review	LS	1	40	40	VE by others, hours included for support during VE Study only
3.6	Prime Consultant Project Manager Meetings	LS	1	96	96	1 PM x 4 hrs. x 1 meeting / month for 24 months
3. General Tasks Total					700	

Project Activity 4: Roadway Analysis

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	58	58	Data Sheet 18 hrs; 5 additional sections @ 8 hrs ea.
4.2	Pavement Design Package	LS	1	56	56	Setup 24 hrs; 2 additional pavement designs @ 16 hrs ea.
4.3	Access Management	LS	1	32	32	2 miles @ 16 hrs./ mile
4.4	Horizontal /Vertical Master Design Files	LS	1	424	424	2 miles @ 180 hrs./ mile; 1 additional intersection @ 32 hrs ea.
4.5	Cross Section Design Files	LS	1	348	348	2 miles @ 150 hrs./ mile; 3 stormwater ponds @ 16 hrs ea.
4.6	Traffic Control Analysis	LS	1	304	304	Level III (120 hrs.); Temp. Signal (24 hrs.); Cross Sections 2 miles @ 80 hrs./mile
4.7	Master TCP Design Files	LS	1	384	384	2 miles @ 64 hrs./ mile / phase of const.; Assume 3 phases.
4.8	Design Variations and Exceptions	LS	1	48	48	Assume 2 design variations @ 24 hrs. ea.
4.9	Design Report	LS	1	80	80	Design Report
4.10	Computation Book & Quantities	LS	1	240	240	Comp. Book Required
4.11	Cost Estimate	LS	1	144	144	2 LRE's @ 12 hrs/update; 5 engr's estimate @ 24 hrs/update
4.12	Technical Special Provisions	LS	1	16	16	Assume 2 TSP's @ 8 hrs ea.
Roadway Analysis Technical Subtotal					2134	
4.13	Field Reviews	LS	1	40	40	2 Engr's @ x 4 hrs. x (Initial, 30%, 60%, 90%, Plans Update)
4.14	Technical Meetings	LS	1	192	192	2 Engr's @ x 4 hrs. x 24 meetings
4.15	Quality Assurance/Quality Control	LS	%	8%	171	Upper Range Project
4.16	Independent Peer Review	LS	%	4%	85	Upper Range Project
4.17	Supervision	LS	%	8%	171	Upper Range Project
Roadway Analysis Nontechnical Subtotal					659	
4.18	Coordination	LS	%	3%	84	Upper Range Project
4. Roadway Analysis Total					2877	

Project Activity 5. Roadway Plans

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Scale	Units	No. of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
5.1	Key Sheet		Sheet	1	12	1	12	
5.2	Summary of Pay Items-including Quantity Input		Sheet	4	18	4	72	
5.3	Drainage Map		Sheet	4	40	4	160	Project Length = 2 miles; 1"=200'
5.4	Interchange Drainage Map		Sheet	1	40	1	40	
5.5	Typical Section Sheets		Sheet	3	18	3	54	6 Typical Sections; 2 Sections/Sheet
5.6	General Notes/Pay Item notes		Sheet	2	16	2	32	
5.7	Summary of Quantities		Sheet	2	24	2	48	
5.8	Box Culvert Data Sheet		Sheet	0	0	0	0	NIC
5.9	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	0	NIC
5.10	Summary of Drainage Structures		Sheet	3	24	3	72	2 miles; Strs @ 300' spacing
5.11	Optional Pipe/ Culvert Material		Sheet	2	8	2	16	
5.12	Project Layout		Sheet	4	10	4	40	Project Length = 2 miles; 1"=200'
5.13	Plan/Profile Sheet		Sheet	0	0	0	0	NIC
5.14	Profile Sheet		Sheet	18	12	18	216	Project Length = 2 miles; 1"=40'
5.15	Plan Sheet		Sheet	18	16	18	288	Project Length = 2 miles; 1"=40'
5.16	Special Profile		Sheet	11	12	11	132	Ramps (4 profiles w/ 1 per sheet); D/W's (24 profiles w/ 8 per sheet); Intersections (3 profiles w/ 1 per sheet)
5.17	Back of Sidewalk Profile Sheet		Sheet	18	12	18	216	Project Length = 2 miles; 1"=40'
5.18	Interchange Layout Sheet		Sheet	4	24	4	96	Project Length = 2 miles; 1"=200'
5.19	Ramp Terminal Details (Plan View)		Sheet	4	10	4	40	4 Ramp Terminals
5.20	Intersection Layout Details		Sheet	2	12	2	24	2 Intersections
5.21	Miscellaneous Detail Sheets		Sheet	2	24	2	48	Misc. Const. Details
5.22	Drainage Structure Sheet (per Structure)		EA	100	4	24	400	2 miles; Strs @ 300' spacing

Project Activity 5. Roadway Plans

Task No.	Task	Scale	Units	No. of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
5.23	Miscellaneous Drainage Detail Sheets		Sheet	2	24	2	48	Special Structures
5.24	Lateral Ditch Plan/Profile		Sheet	0	0	0	0	NIC
5.25	Lateral Ditch Cross sections		EA	0	0	0	0	NIC
5.26	Retention/Detention Ponds Detail Sheet		Sheet	5	32	5	160	5 WRA's
5.27	Retention Pond Cross Sections		EA	24	0.5		12	
5.28	Cross-section Pattern Sheet		Sheet	0	0	0	0	NIC
5.29	Roadway Soil Survey Sheet		Sheet	0	0	0	0	Shjeet provided by Geotech Firm
5.30	Cross Sections		EA	106	0.5	36	53	Project Length = 2 miles
5.31	Traffic Control Plan Sheets		Sheet	54	10	54	540	3 Phases
5.32	Traffic Control Cross Section Sheets		EA	75	0.5	36	38	25 sections / phase
5.33	Traffic Control Detail Sheets		Sheet	2	10	2	20	
5.34	Utility Adjustment Sheets		Sheet	18	4	18	72	
5.35	Selective Clearing and Grubbing		Sheet	0	0	0	0	NIC
5.36	Erosion Control Plan		Sheet	18	6	18	108	
5.37	SWPPP		Sheet	4	6	4	24	
5.38	Project Control Network Sheet		Sheet	1	1	1	1	Furnished by Surveyor
5.39	Interim Standards		LS	1	4		4	
5.40	Utility Verification Sheet (SUE data)		Sheet	1	12	1	12	
Roadway Plans Technical Subtotal						304	3098	
5.41	Quality Assurance/Quality Control		LS	%	8%		248	
5.42	Supervision		LS	%	8%		248	
5. Roadway Plans Total						304	3594	

Project Activity 6: Drainage Analysis

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
6.1	Determine Base Clearance Water Elevation	Per Location	1	12	12	Low Range
6.2	Pond Siting Analysis and Report	Per Basin	5	32	160	Assume 5 Basins
6.3	Design of Cross Drains	EA	6	6	36	Assume 6 Culverts
6.4	Design of Roadway Ditches	Per Ditch Mile	1.2	20	24	Frontage & Auxillary Rds
6.5	Design of Outfalls	EA	0	0	0	Assume closed basins
6.6	Design of Stormwater Management Facility (Offsite Pond)	EA	5	60	300	Assume 5 WRA
6.7	Design of Stormwater Management Facility (Roadside Ditch as Linear Pond)	Per System	0	0	0	NIC
6.8	Design of Flood Plain Compensation Area	Per Encroachment	4	40	160	
6.9	Design of Storm Drains	EA	100	4	400	70 inlets; 20 manholes; 10 misc. structures
6.10	Optional Culvert Material	LS	1	16	16	
6.11	French Drain Systems	Per 1000 Feet of French Drain	0	0	0	NIC
6.12	Drainage Wells	EA	0	0	0	NIC
6.13	Drainage Design Documentation Report	LS	1	80	80	High Range
6.14	Preparation of Bridge Hydraulic Report	EA	0	0	0	NIC
6.15	Cost Estimate	LS	1	16	16	
6.16	Technical Special Provisions	LS	1	0	0	See Roadway Analysis Estimate
Drainage Analysis Technical Subtotal					1204	
6.17	Field Reviews	LS	1	40	40	2 Engr's @ x 4 hrs. x (Initial, 30%, 60%, 90%, Plans Update)

Project Activity 6: Drainage Analysis

Task No.	Task	Units	No of Units	Hours / Unit	Total Hours	Comments
6.18	Technical Meetings	LS	1	144	144	2 Engr's @ x 4 hrs. x 18 meetings
6.19	Quality Assurance/Quality Control	LS	%	8%	96	Upper Range Project
6.20	Independent Peer Review	LS	%	4%	48	Upper Range Project
6.21	Supervision	LS	%	8%	96	Upper Range Project
Drainage Analysis Nontechnical Subtotal					424	
6.22	Coordination	LS	%	3%	49	
6. Drainage Analysis Total					1677	

Project Activity 7: Utilities

Estimator:

US 41 / Causeway Interchange Project

411561-1

Task No.	TASK	Units	No of Units	Hours / Unit	Total Hours	Comments
7.1	Kickoff Meeting	LS	1	8	8	1 Mtg. x 2 Engr. x 4 hrs.
7.2	Identify Existing UAOs	LS	6	2	12	Assume 6 Utilities
7.3	Make Utility Contacts	LS	3	12	36	3 Contacts x 6 Utilities x 2 hrs./utility
7.4	Exception Coordination	LS	3	3	9	Assume 3 Exceptions
7.5	Preliminary Utility Meeting	LS	1	8	8	1 Mtg. x 2 Engr. x 4 hrs.
7.6	Individual/Field Meetings	LS	2	8	16	2 Field Mtgs w/ 6 Utility Companies
7.7	Collect and Review Plans and Data from UAO(s)	LS	6	1	6	Assume 6 Utilities
7.8	Subordination of Easements Coordination	LS	6	1	6	Assume 6 Easements
7.9	Utility Design Meeting	LS	1	8	8	1 Mtg. x 2 Engr. x 4 hrs.
7.10	Review Utility Markups, Work Schedules, Processing of Schedules and Agreements	LS	6	6	36	6 Utilities @ 2 hrs. x 3 documents/utility
7.11	Utility Coordination / Followup	LS	6	20	120	6 utilities x 4 hrs. x 5 complex factor
7.12	Utility Constructability Review	LS	6	4	24	6 Utilities @ 4 hrs. / utility
7.13	Additional Utility Services	LS	1	0	0	NIC
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	NIC
7.15	Contract Plans to UAO(s)	LS	6	1	6	Assume 6 Utilities
7.16	Certification/Close-out	LS	6	4	24	Assume 6 Utilities
7. Utilities Total					319	

Project Activity 8: Environmental Permits

Estimator: J. D. Darbonne

#REF!
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Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.1	Preliminary Project Research	LS	1	24	24	Data gathering from relevant sources including PD&E studies, County, local agencies, WMD, ACOE, USCG, etc. First look at project during the initial plans review to check for permit involvement, and verify background data. Includes additional reviews for clarification and preliminary field review.
8.2	Complete Permit Involvement Form	LS	1	8	8	Completion of Permit Involvement Form in coordination with District Permit Coordinator and the Department's Project Manager. To be done after scope is well defined.
8.3	Establish Wetland Jurisdictional Lines	LS	1	16	16	Support of the Ecological Subconsultant - Includes determination of wetland lines. Includes completion of the involved agency's wetland assessment program(s).
8.4	Agency Verification of Wetland Data	LS	1	12	12	Verification of wetland data identified in Task 3. Includes finalization of wetland assessment programs with applicable agencies. Includes any other meetings or field reviews necessary to finalize jurisdictional involvement regarding trees, bridges, coastal construction lines, etc.
8.5	Complete And Submit All Required Permit Applications	LS	1	350	350	
8.6	Prepare Dredge and Fill Sketches	LS	1	24	24	
8.7	Prepare USCG Permit Sketches	LS	0	0	0	Not Anticipated
8.8	Prepare Easement Sketches	LS	0	0	0	Not Anticipated
8.9	Prepare R/W Occupancy Sketches	LS	0	0	0	Not Anticipated
8.10	Prepare Coastal Construction Control Line (CCCL) Permit Sketches	LS	0	0	0	Not Anticipated
8.11	Prepare Tree Permit Information	LS	0	0	0	Not Anticipated

Project Activity 8: Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.12	Mitigation Coordination and Meetings	LS	0	0	0	Not Anticipated
8.13	Mitigation Design	LS	0	0	0	Not Anticipated
8.14	Environmental Clearances	LS	0	0	0	Not Anticipated
Environmental Permits Technical Subtotal					434	
8.15	Technical Meetings	LS	4	10	40	2 Engr's @ x 5 hrs. x 4 meetings
8.16	Quality Assurance/Quality Control	LS	%	8%	35	
8.17	Supervision	LS	%	8%	35	
Environmental Permits Nontechnical SubTotal					110	
8.18	Coordination	LS	%	5%	27	
8. Environmental Permits Total					571	

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Estimator:G. Ghosh

US 41 / Causeway Interchange Project
255599-1-52-02

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
General Drawings											
9.1	Index of Drawings	sheet	1	16	1	16					
9.2	Project Layout	sheet	2	16	2	32					
9.3	General Notes and Bid Item Notes	sheet	1	12	1	12					
9.4	Incorporate FDOT Standards	sheet	10	4	10	40					
9.5	Incorporate Report of Core Borings	sheet	4	8	4	32					
9.6	Existing Bridge Plans	LS	1	0		0					
9.7	Computation Book and Quantities	LS	1	96		96	3@8 + 1@4				
9.8	Cost Estimate	LS	1	18		18	3@6				
9.9	Technical Special Provisions	LS	1	12		12					
Structures - Miscellaneous Tasks & Drawings Subtotal					18	258					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 1	1698	514	0	0	0	1184	0	0		
10-16	Bridge 2	1636	472				1164				
10-16	Bridge 3	1520	444				1076				
17	Retaining Walls	658								658	
18	Miscellaneous Structures	304									304
Structures Technical Subtotals		5816	1430	0	0	0	3424	0	0	658	304
Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments					
9.10	Field Reviews	LS	1	24	24						
9.11	Technical Meetings	LS	1	24	24						
9.12	Quality Assurance / Quality Control	LS	%	6%	364						
9.13	Independent Peer Review	LS	%	3%	182						
9.14	Supervision	LS	%	5%	304						
Structures Non-Technical Subtotal					898						
9.15	Coordination	LS	%	3%	209						
9. Structures - Miscellaneous Tasks & Drawings, Non-Technical, & Coordination Total					1365						

Project Activity 10: BDR

Estimator: G. Ghosh

US 41 / Causeway Interchange Project

Bridge Identifier (Number or Name): Bridge 1: Causeway Blvd. over CSX Railroad and Frontage Roads

255599-1-52-02

Task No.	Task	Units	No of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
General Requirement							
10.1	Bridge Geometry	LS	1	60		60	5 span continuous bridge on Vert and Horiz. Curve
10.2	Ship Impact Data Collection	LS	1	0		0	
10.3	Ship Impact Criteria	EA	0	0		0	
Superstructure Alternatives							
10.4	Short Span Concrete	EA	0	0		0	
10.5	Medium Span Concrete	EA	1	16		16	Type IV Girders
10.6	Long Span Concrete	EA	0	0		0	
10.7	Structural Steel	EA	2	24		48	Plate Girder and Rolled Sections
Foundation & Substructure Alternatives							
10.8	Pier/Bent Types	EA	3	16		48	Hammer head and multi columns (circular)
10.9	Shallow Foundations	EA	0	0		0	
10.10	Deep Foundations	EA	3	10		30	Pile versus Caisson
Movable Span							
10.11	Data Collection & Design Criteria	LS	1	0		0	
10.12	Movable Span Geometrics and Clearances	LS	1	0		0	
10.13	Deck System Evaluation	LS	1	0		0	
10.14	Framing Plan Development	LS	1	0		0	
10.15	Main Girder Preliminary Design	LS	1	0		0	
10.16	Conceptual Span Balance/Counterweight	LS	1	0		0	
10.17	Support System Development	LS	1	0		0	
10.18	Drive Power Calculations	LS	1	0		0	
10.19	Drive System Development	LS	1	0		0	
10.20	Power and Control Development	LS	1	0		0	
10.21	Conceptual Pier Design	LS	1	0		0	

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
10.22	Foundation Analysis (FL Pier)	LS	1	0		0	
10.23	Tender Visibility Study	LS	1	0		0	
Other BDR Issues							
10.24	Aesthetics	LS	1	12		12	
10.25	TCP/Staged Construction Requirements	LS	1	8		8	
10.26	Constructibility Requirements	LS	1	8		8	
10.27	Abutment Slope/Wall Evaluation	LS	1	4		4	
10.28	Quantity and Cost Estimates	EA	3	16		48	
10.29	Quantity and Cost Estimates (Movable Span)	LS	1	0		0	
10.30	Wall Type Justification	LS	1	16		16	
Report Preparation							
10.31	Exhibits	EA	3	20		60	3 Bridge Types
10.32	Exhibits (Movable Span)	EA	0	0		0	
10.33	Report Preparation	LS	1	40		40	
10.34	Report Preparation (Movable Span)	LS	1	0		0	
10.35	BDR Submittal Package	LS	1	12		12	
BDR Subtotal						410	
Add the following hours if Plans are included with the BDR submittal							
10.36	General Notes Sheets	Sheet	1	16	1	16	
10.37	Plan and Elevation Sheets	Sheet	1	48	1	48	
10.38	Construction Staging	Sheet	1	8	1	8	
10.39	Superstructure Section Sheets	Sheet	1	16	1	16	
10.40	Substructure Sections Sheets	Sheet	1	16	1	16	
10.41	General Notes Sheets (Movable Span)	Sheet	0	0	0	0	
10.42	Plan and Elevation Sheets (Movable Span)	Sheet	0	0	0	0	
10.43	Clearance Diagram (Movable Span)	Sheet	0	0	0	0	

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
10.44	Bascule Pier Layouts (Movable Span)	Sheet	0	0	0	0	
10.45	Bascule Leaf Section (Movable Span)	Sheet	0	0	0	0	
10.46	Bascule Leaf Framing Plan (Movable Span)	Sheet	0	0	0	0	
10.47	Machinery Layouts (Movable Span)	Sheet	0	0	0	0	
10.48	Control Logic Diagram (Movable Span)	Sheet	0	0	0	0	
30% Plans Subtotal					5	104	
10. Structures-BDR Total					5	514	

Project Activity 10: BDR

Estimator: G. Ghosh

US 41 / Causeway Interchange Project

Bridge Identifier (Number or Name): Bridge 2: US 41 over CSX Railroad and Frontage Roads

255599-1-52-02

Task No.	Task	Units	No of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
General Requirement							
10.1	Bridge Geometry	LS	1	72		72	3 span continuous flared Bridge on Vert and Horiz. Curve
10.2	Ship Impact Data Collection	LS	1	0		0	
10.3	Ship Impact Criteria	EA	0	0		0	
Superstructure Alternatives							
10.4	Short Span Concrete	EA	0	0		0	
10.5	Medium Span Concrete	EA	1	16		16	Type V
10.6	Long Span Concrete	EA	0	0		0	
10.7	Structural Steel	EA	2	28		56	Plate Girder and Box Girder Alternatives
Foundation & Substructure Alternatives							
10.8	Pier/Bent Types	EA	3	12		36	Hammer head and multi columns (circular)
10.9	Shallow Foundations	EA	0	0		0	
10.10	Deep Foundations	EA	3	8		24	Pile versus Caisson
Movable Span							
10.11	Data Collection & Design Criteria	LS	1	0		0	
10.12	Movable Span Geometrics and Clearances	LS	1	0		0	
10.13	Deck System Evaluation	LS	1	0		0	
10.14	Framing Plan Development	LS	1	0		0	
10.15	Main Girder Preliminary Design	LS	1	0		0	
10.16	Conceptual Span Balance/Counterweight	LS	1	0		0	
10.17	Support System Development	LS	1	0		0	
10.18	Drive Power Calculations	LS	1	0		0	
10.19	Drive System Development	LS	1	0		0	
10.20	Power and Control Development	LS	1	0		0	
10.21	Conceptual Pier Design	LS	1	0		0	

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
10.22	Foundation Analysis (FL Pier)	LS	1	0		0	
10.23	Tender Visibility Study	LS	1	0		0	
Other BDR Issues							
10.24	Aesthetics	LS	1	12		12	
10.25	TCP/Staged Construction Requirements	LS	1	8		8	
10.26	Constructibility Requirements	LS	1	8		8	
10.27	Abutment Slope/Wall Evaluation	LS	1	4		4	
10.28	Quantity and Cost Estimates	EA	3	16		48	
10.29	Quantity and Cost Estimates (Movable Span)	LS	1	0		0	
10.30	Wall Type Justification	LS	1	12		12	
Report Preparation							
10.31	Exhibits	EA	3	12		36	3 Bridge Types
10.32	Exhibits (Movable Span)	EA	0	0		0	
10.33	Report Preparation	LS	1	40		40	
10.34	Report Preparation (Movable Span)	LS	1	0		0	
10.35	BDR Submittal Package	LS	1	12		12	
BDR Subtotal						384	
Add the following hours if Plans are included with the BDR submittal							
10.36	General Notes Sheets	Sheet	0	0	0	0	
10.37	Plan and Elevation Sheets	Sheet	1	48	1	48	
10.38	Construction Staging	Sheet	1	8	1	8	
10.39	Superstructure Section Sheets	Sheet	1	16	1	16	
10.40	Substructure Sections Sheets	Sheet	1	16	1	16	
10.41	General Notes Sheets (Movable Span)	Sheet	0	0	0	0	
10.42	Plan and Elevation Sheets (Movable Span)	Sheet	0	0	0	0	
10.43	Clearance Diagram (Movable Span)	Sheet	0	0	0	0	

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
10.44	Bascule Pier Layouts (Movable Span)	Sheet	0	0	0	0	
10.45	Bascule Leaf Section (Movable Span)	Sheet	0	0	0	0	
10.46	Bascule Leaf Framing Plan (Movable Span)	Sheet	0	0	0	0	
10.47	Machinery Layouts (Movable Span)	Sheet	0	0	0	0	
10.48	Control Logic Diagram (Movable Span)	Sheet	0	0	0	0	
30% Plans Subtotal					4	88	
10. Structures-BDR Total					4	472	

Project Activity 10: BDR

Estimator: G. Ghosh

US 41 / Causeway Interchange Project

Bridge Identifier (Number or Name): Bridge 3: US 41 over Causeway Blvd and Frontage Roads

255599-1-52-02

Task No.	Task	Units	No of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
General Requirement							
10.1	Bridge Geometry	LS	1	60		60	3 span continuous bridge on Vert and Horiz. Curve
10.2	Ship Impact Data Collection	LS	1	0		0	
10.3	Ship Impact Criteria	EA	0	0		0	
Superstructure Alternatives							
10.4	Short Span Concrete	EA	0	0		0	
10.5	Medium Span Concrete	EA	1	16		16	Type V girders
10.6	Long Span Concrete	EA	0	0		0	
10.7	Structural Steel	EA	2	24		48	Plate Girder and Box Girder Alternatives
Foundation & Substructure Alternatives							
10.8	Pier/Bent Types	EA	3	12		36	Hammer head and multi columns (circular)
10.9	Shallow Foundations	EA	0	0		0	
10.10	Deep Foundations	EA	3	8		24	Pile versus Caisson
Movable Span							
10.11	Data Collection & Design Criteria	LS	1	0		0	
10.12	Movable Span Geometrics and Clearances	LS	1	0		0	
10.13	Deck System Evaluation	LS	1	0		0	
10.14	Framing Plan Development	LS	1	0		0	
10.15	Main Girder Preliminary Design	LS	1	0		0	
10.16	Conceptual Span Balance/Counterweight	LS	1	0		0	
10.17	Support System Development	LS	1	0		0	
10.18	Drive Power Calculations	LS	1	0		0	
10.19	Drive System Development	LS	1	0		0	
10.20	Power and Control Development	LS	1	0		0	
10.21	Conceptual Pier Design	LS	1	0		0	

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
10.22	Foundation Analysis (FL Pier)	LS	1	0		0	
10.23	Tender Visibility Study	LS	1	0		0	
Other BDR Issues							
10.24	Aesthetics	LS	1	12		12	
10.25	TCP/Staged Construction Requirements	LS	1	8		8	
10.26	Constructibility Requirements	LS	1	8		8	
10.27	Abutment Slope/Wall Evaluation	LS	1	4		4	
10.28	Quantity and Cost Estimates	EA	3	12		36	
10.29	Quantity and Cost Estimates (Movable Span)	LS	1	0		0	
10.30	Wall Type Justification	LS	1	16		16	
Report Preparation							
10.31	Exhibits	EA	3	12		36	3 Bridge Types
10.32	Exhibits (Movable Span)	EA	0	0		0	
10.33	Report Preparation	LS	1	40		40	
10.34	Report Preparation (Movable Span)	LS	1	0		0	
10.35	BDR Submittal Package	LS	1	12		12	
BDR Subtotal						356	
Add the following hours if Plans are included with the BDR submittal							
10.36	General Notes Sheets	Sheet	0	0	0	0	
10.37	Plan and Elevation Sheets	Sheet	1	48	1	48	
10.38	Construction Staging	Sheet	1	8	1	8	
10.39	Superstructure Section Sheets	Sheet	1	16	1	16	
10.40	Substructure Sections Sheets	Sheet	1	16	1	16	
10.41	General Notes Sheets (Movable Span)	Sheet	0	0	0	0	
10.42	Plan and Elevation Sheets (Movable Span)	Sheet	0	0	0	0	
10.43	Clearance Diagram (Movable Span)	Sheet	0	0	0	0	

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours / Unit	No. of Sheets	Total Hours	Comments
10.44	Bascule Pier Layouts (Movable Span)	Sheet	0	0	0	0	
10.45	Bascule Leaf Section (Movable Span)	Sheet	0	0	0	0	
10.46	Bascule Leaf Framing Plan (Movable Span)	Sheet	0	0	0	0	
10.47	Machinery Layouts (Movable Span)	Sheet	0	0	0	0	
10.48	Control Logic Diagram (Movable Span)	Sheet	0	0	0	0	
30% Plans Subtotal					4	88	
10. Structures-BDR Total					4	444	

Project Activity 14: Structures -Structural Steel

Estimator: G. Ghosh

US 41 / Causeway Interchange Project

Bridge Identifier (Number or Name): Bridge 1: Causeway Blvd over CSX Railroad and Frontage Roads

255599-1-52-02

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
General Layout Design and Plans							
14.1	Overall Bridge Final Geometry	LS	1	40		40	
14.2	Expansion/Contraction Analysis	EA Unit	1	16		16	5 span continuous superstructure
14.3	General Plan and Elevation	Sheet	1	16	1	16	Revise 30% Plans
14.4	Construction Staging	Sheet	1	0	0	0	
14.5	Approach Slab Plan and Details	Sheet	1	8	1	8	
14.6	Miscellaneous Details	Sheet	1	24	1	24	Special Utility support details will be required
End Bent Design and Plans							
14.7	End Bent Geometry	EA	2	16		32	
14.8	Wingwall Design and Geometry	EA Bent	2	8		16	
14.9	End Bent Structural Design	EA	1	32		32	
14.10	End Bent Plan and Elevation	Sheet	2	20	2	40	
14.11	End Bent Details	Sheet	1	24	1	24	
Intermediate Bent Design and Plans							
14.12	Bent Geometry	EA bent	0	0		0	
14.13	Bent Stability Analysis	EA design	0	0		0	
14.14	Bent Structural Design	EA design	0	0		0	
14.15	Bent Plan and Elevation	Sheet	0	0	0	0	
14.16	Bent Details	Sheet	0	0	0	0	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Pier Design and Plans							
14.17	Pier Geometry	EA pier	4	16		64	4 Intermediate Pier type substructure
14.18	Pier Stability Analysis	EA design	0	0		0	
14.19	Pier Structural Design	EA design	2	40		80	
14.20	Pier Plan and Elevation	Sheet	2	30	2	60	
14.21	Pier Details	Sheet	2	24	2	48	
Misc. Substructure Design and Plans							
14.22	Foundation Layout	Sheet	1	24	1	24	
14.23	Fender System	LS	1	0		0	
Superstructure Deck Design and Plans							
14.24	Finish Grade Elevation (FGE) Calculation	LS	1	32		32	
14.25	Finish Grade Elevations	Sheet	1	16	1	16	
14.26	Bridge Deck Design	EA section	1	8		8	Empirical Method
14.27	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	2	16		32	
14.28	Superstructure Plan	Sheet	2	24	2	48	
14.29	Superstructure Section	Sheet	2	16	2	32	
14.30	Miscellaneous Bridge Deck Details	Sheet	2	20	2	40	
Reinforcing Bar Lists							
14.31	Reinforcing Bar List	Sheet	2	10	2	20	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Structural Steel Plate Girder Design							
14.32	Unit Modeling	EA Unit	2	40		80	Interior and Exterior Girders with less than 15 deg skew
14.33	Section Design	EA Unit	2	20		40	
14.34	Stiffener Design and Locations	EA Unit	2	8		16	
14.35	Cross-frame Design	EA Unit	1	8		8	
14.36	Connections	EA Unit	1	16		16	
14.37	Bearing Assembly Design and Detailing (with Jacking Analysis)	EA Unit	2	12		24	
14.38	Splice Design	EA Unit	4	10		40	2 splices for Interior and Exterior Girders
14.39	Shear Stud Connectors	EA Unit	2	8		16	
14.40	Deflection Analysis	EA Unit	2	16		32	
14.41	Framing Plan	Sheet	2	16	2	32	
14.42	Girder Elevation	Sheet	2	12	2	24	
14.43	Structural Steel Details	Sheet	2	16	2	32	
14.44	Splice Details	Sheet	2	8	2	16	
14.45	Girder Deflections and Camber	Sheet	2	8	2	16	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Structural Steel Box Girder Design							
14.46	Unit Modeling	EA Unit	0	0		0	
14.47	Section Design	EA Unit	0	0		0	
14.48	Stiffener Design and Locations	EA Unit	0	0		0	
14.49	Interior Cross-frame Design	EA Unit	0	0		0	
14.50	Exterior Cross-frame Design	EA Unit	0	0		0	
14.51	Connections	EA Unit	0	0		0	
14.52	Bearing Assembly Design and Detailing (with Jacking Analysis)	EA Unit	0	0		0	
14.53	Splice Design	EA Unit	0	0		0	
14.54	Shear Stud Connectors	EA Unit	0	0		0	
14.55	Deflection Analysis	EA Unit	0	0		0	
14.56	Framing Plan	Sheet	0	0	0	0	
14.57	Girder Elevation	Sheet	0	0	0	0	
14.58	Structural Steel Details	Sheet	0	0	0	0	
14.59	Splice Details	Sheet	0	0	0	0	
14.60	Girder Deflections and Camber	Sheet	0	0	0	0	
Load Rating							
14.61	Load Rating	EA Unit	1	40		40	
14. Structures-Structural Steel Total					30	1184	

Project Activity 14: Structures -Structural Steel

Estimator: G. Ghosh

US 41 / Causeway Interchange Project

Bridge Identifier (Number or Name): Bridge 2: US 41 over CSX Railroad and Frontage Roads

255599-1-52-02

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
General Layout Design and Plans							
14.1	Overall Bridge Final Geometry	LS	1	48		48	
14.2	Expansion/Contraction Analysis	EA Unit	1	16		16	3 span continuous superstructure with splaying
14.3	General Plan and Elevation	Sheet	1	16	1	16	Revise 30% Plans
14.4	Construction Staging	Sheet	0	0	0	0	
14.5	Approach Slab Plan and Details	Sheet	1	8	1	8	
14.6	Miscellaneous Details	Sheet	1	16	1	16	Special Utility support details will be required
End Bent Design and Plans							
14.7	End Bent Geometry	EA	2	20		40	
14.8	Wingwall Design and Geometry	EA Bent	2	8		16	
14.9	End Bent Structural Design	EA	2	20		40	
14.10	End Bent Plan and Elevation	Sheet	2	20	2	40	
14.11	End Bent Details	Sheet	1	24	1	24	
Intermediate Bent Design and Plans							
14.12	Bent Geometry	EA bent	0	0		0	
14.13	Bent Stability Analysis	EA design	0	0		0	
14.14	Bent Structural Design	EA design	0	0		0	
14.15	Bent Plan and Elevation	Sheet	0	0	0	0	
14.16	Bent Details	Sheet	0	0	0	0	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Pier Design and Plans							
14.17	Pier Geometry	EA pier	2	16		32	
14.18	Pier Stability Analysis	EA design	0	0		0	
14.19	Pier Structural Design	EA design	1	48		48	
14.20	Pier Plan and Elevation	Sheet	2	24	2	48	
14.21	Pier Details	Sheet	2	16	2	32	
Misc. Substructure Design and Plans							
14.22	Foundation Layout	Sheet	1	24	1	24	
14.23	Fender System	LS	1	0		0	
Superstructure Deck Design and Plans							
14.24	Finish Grade Elevation (FGE) Calculation	LS	1	32		32	Flared Deck Section on Curve
14.25	Finish Grade Elevations	Sheet	1	16	1	16	
14.26	Bridge Deck Design	EA section	1	24		24	
14.27	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	1	16		16	
14.28	Superstructure Plan	Sheet	3	16	3	48	
14.29	Superstructure Section	Sheet	3	12	3	36	
14.30	Miscellaneous Bridge Deck Details	Sheet	2	20	2	40	
Reinforcing Bar Lists							
14.31	Reinforcing Bar List	Sheet	2	10	2	20	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Structural Steel Plate Girder Design							
14.32	Unit Modeling	EA Unit	2	40		80	Interior and Exterior Girders with less than 15 deg skew
14.33	Section Design	EA Unit	2	16		32	
14.34	Stiffener Design and Locations	EA Unit	2	8		16	
14.35	Cross-frame Design	EA Unit	2	16		32	
14.36	Connections	EA Unit	1	16		16	
14.37	Bearing Assembly Design and Detailing (with Jacking Analysis)	EA Unit	2	16		32	
14.38	Splice Design	EA Unit	2	16		32	
14.39	Shear Stud Connectors	EA Unit	2	12		24	
14.40	Deflection Analysis	EA Unit	2	16		32	
14.41	Framing Plan	Sheet	2	12	2	24	
14.42	Girder Elevation	Sheet	2	16	2	32	
14.43	Structural Steel Details	Sheet	2	20	2	40	
14.44	Splice Details	Sheet	2	8	2	16	
14.45	Girder Deflections and Camber	Sheet	2	8	2	16	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Structural Steel Box Girder Design							
14.46	Unit Modeling	EA Unit	0	0		0	
14.47	Section Design	EA Unit	0	0		0	
14.48	Stiffener Design and Locations	EA Unit	0	0		0	
14.49	Interior Cross-frame Design	EA Unit	0	0		0	
14.50	Exterior Cross-frame Design	EA Unit	0	0		0	
14.51	Connections	EA Unit	0	0		0	
14.52	Bearing Assembly Design and Detailing (with Jacking Analysis)	EA Unit	0	0		0	
14.53	Splice Design	EA Unit	0	0		0	
14.54	Shear Stud Connectors	EA Unit	0	0		0	
14.55	Deflection Analysis	EA Unit	0	0		0	
14.56	Framing Plan	Sheet	0	0	0	0	
14.57	Girder Elevation	Sheet	0	0	0	0	
14.58	Structural Steel Details	Sheet	0	0	0	0	
14.59	Splice Details	Sheet	0	0	0	0	
14.60	Girder Deflections and Camber	Sheet	0	0	0	0	
Load Rating							
14.61	Load Rating	EA Unit	1	60		60	Flared Deck Section on Curve
14. Structures-Structural Steel Total					32	1164	

Project Activity 14: Structures -Structural Steel

Estimator: G. Ghosh

US 41 / Causeway Interchange Project

Bridge Identifier (Number or Name): Bridge 3: US 41 over Causeway Blvd and Frontage Roads

255599-1-52-02

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
General Layout Design and Plans							
14.1	Overall Bridge Final Geometry	LS	1	48		48	
14.2	Expansion/Contraction Analysis	EA Unit	1	16		16	3 span continuous superstructure over SPDI
14.3	General Plan and Elevation	Sheet	1	16	1	16	Revise 30% Plans
14.4	Construction Staging	Sheet	0	0	0	0	
14.5	Approach Slab Plan and Details	Sheet	1	8	1	8	
14.6	Miscellaneous Details	Sheet	1	24	1	24	Special Utility support details will be required
End Bent Design and Plans							
14.7	End Bent Geometry	EA	2	16		32	
14.8	Wingwall Design and Geometry	EA Bent	2	8		16	
14.9	End Bent Structural Design	EA	1	32		32	
14.10	End Bent Plan and Elevation	Sheet	2	20	2	40	
14.11	End Bent Details	Sheet	1	24	1	24	
Intermediate Bent Design and Plans							
14.12	Bent Geometry	EA bent	0	0		0	
14.13	Bent Stability Analysis	EA design	0	0		0	
14.14	Bent Structural Design	EA design	0	0		0	
14.15	Bent Plan and Elevation	Sheet	0	0	0	0	
14.16	Bent Details	Sheet	0	0	0	0	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Pier Design and Plans							
14.17	Pier Geometry	EA pier	2	16		32	
14.18	Pier Stability Analysis	EA design	0	0		0	
14.19	Pier Structural Design	EA design	1	48		48	
14.20	Pier Plan and Elevation	Sheet	2	30	2	60	
14.21	Pier Details	Sheet	2	24	2	48	
Misc. Substructure Design and Plans							
14.22	Foundation Layout	Sheet	1	24	1	24	
14.23	Fender System	LS	1	0		0	
Superstructure Deck Design and Plans							
14.24	Finish Grade Elevation (FGE) Calculation	LS	1	32		32	
14.25	Finish Grade Elevations	Sheet	1	16	1	16	
14.26	Bridge Deck Design	EA section	1	16		16	Empirical method
14.27	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	1	16		16	
14.28	Superstructure Plan	Sheet	2	24	2	48	
14.29	Superstructure Section	Sheet	2	16	2	32	
14.30	Miscellaneous Bridge Deck Details	Sheet	2	20	2	40	
Reinforcing Bar Lists							
14.31	Reinforcing Bar List	Sheet	2	8	2	16	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Structural Steel Plate Girder Design							
14.32	Unit Modeling	EA Unit	2	32		64	Interior and Exterior Girders with less than 15 deg skew
14.33	Section Design	EA Unit	2	16		32	
14.34	Stiffener Design and Locations	EA Unit	2	8		16	
14.35	Cross-frame Design	EA Unit	2	8		16	
14.36	Connections	EA Unit	1	16		16	
14.37	Bearing Assembly Design and Detailing (with Jacking Analysis)	EA Unit	2	12		24	
14.38	Splice Design	EA Unit	2	16		32	
14.39	Shear Stud Connectors	EA Unit	2	8		16	
14.40	Deflection Analysis	EA Unit	2	16		32	
14.41	Framing Plan	Sheet	2	12	2	24	
14.42	Girder Elevation	Sheet	2	12	2	24	
14.43	Structural Steel Details	Sheet	2	16	2	32	
14.44	Splice Details	Sheet	1	8	1	8	
14.45	Girder Deflections and Camber	Sheet	2	8	2	16	

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Structural Steel Box Girder Design							
14.46	Unit Modeling	EA Unit	0	0		0	
14.47	Section Design	EA Unit	0	0		0	
14.48	Stiffener Design and Locations	EA Unit	0	0		0	
14.49	Interior Cross-frame Design	EA Unit	0	0		0	
14.50	Exterior Cross-frame Design	EA Unit	0	0		0	
14.51	Connections	EA Unit	0	0		0	
14.52	Bearing Assembly Design and Detailing (with Jacking Analysis)	EA Unit	0	0		0	
14.53	Splice Design	EA Unit	0	0		0	
14.54	Shear Stud Connectors	EA Unit	0	0		0	
14.55	Deflection Analysis	EA Unit	0	0		0	
14.56	Framing Plan	Sheet	0	0	0	0	
14.57	Girder Elevation	Sheet	0	0	0	0	
14.58	Structural Steel Details	Sheet	0	0	0	0	
14.59	Splice Details	Sheet	0	0	0	0	
14.60	Girder Deflections and Camber	Sheet	0	0	0	0	
Load Rating							
14.61	Load Rating	EA Unit	1	40		40	
14. Structures-Structural Steel Total					29	1076	

Project Activity 17 - Retaining Walls

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
General Requirements							
17.1	Key Sheet	Sheet	2	16	2	32	
17.2	Horizontal Wall Geometry	Per Wall	18	6		108	11 curved and 7 straight
Permanent Proprietary Walls							
17.3	Vertical Wall Geometry	Per Wall	18	11		198	
17.4	Semi-Standard Drawings	Sheet	1	16	1	16	
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	16	16	16	256	over 7500 lf of MSE wall
17.6	Details	Sheet	2	24	2	48	
Temporary Proprietary Walls							
17.7	Vertical Wall Geometry	Per Wall	0	0		0	
17.8	Semi-Standard Drawings	Sheet	0	0	0	0	
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	
17.10	Details	Sheet	0	0	0	0	
Cast in Place Retaining Walls							
17.11	Design	EA Design	0	0		0	
17.12	Vertical Wall Geometry	EA Wall	0	0		0	
17.13	General Notes	Sheet	0	0	0	0	
17.14	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	
17.15	Sections and Details	Sheet	0	0	0	0	
17.16	Reinforcing Bar List	Sheet	0	0	0	0	

Project Activity 17: Retaining Walls

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Other Retaining Walls							
17.17	Design	EA Design	0	0		0	
17.18	Vertical Wall Geometry	EA Wall	0	0		0	
17.19	General Notes, Tables & Misc. Details	Sheet	0	0	0	0	
17.20	Wall Plan and Elevations	Sheet	0	0	0	0	
17.21	Details	Sheet	0	0	0	0	
17. Retaining Walls Total					21	658	

Project Activity 18: Miscellaneous Structures

Estimator: G. Ghosh

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Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Concrete Box Culvert							
18.1	Concrete Box Culverts	EA	0	0		0	
18.2	Concrete Box Culverts Extensions	EA	0	0		0	
Strain Poles							
18.3	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.4	Concrete Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
Mast Arms							
18.5	Mast Arms	EA Pole	4	12		48	
Overhead & Cantilever Sign Structures							
18.6	Cantilever Sign Structures	EA	4	12		48	
18.7	Overhead Span Sign Structures	EA	4	20		80	
18.8	Special (longspan) Overhead Span Sign Structures	EA	0	0		0	
18.9	Monotube Overhead Sign Structure	EA	0	0		0	
18.10	Bridge Mounted Signs (Attached to Superstr.)	EA	2	64		128	
High Mast Lighting Fixtures							
18.11	High Mast Lighting Structures	EA	0	0		0	
Sound Barrier Walls (Ground Mount)							
18.12	Horizontal Wall Geometry	EA Wall	0	0		0	
18.13	Vertical Wall Geometry	EA 500 feet of Wall	0	0		0	
18.14	Semi-Standard Drawings	Sheet	0	0		0	
18.15	Control Drawings	Sheet	0	0		0	
18.16	Design for Wall Height Covered by Standards	EA Design	0	0		0	

Project Activity 18: Miscellaneous Structures

18.17	Design for Wall Height Not Covered by Standards	EA Design	0	0		0	
18.18	Aesthetic Details	EA	0	0		0	
Special Structures							
18.19	Special Structures	LS	1	0		0	
18. Miscellaneous Structures Total					0	304	

Project Activity 19: Signing and Pavement Marking Analysis

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	4	4	
19.2	No Passing Zone Study	LS	1	0	0	Not Applicable
19.3	Reference and Master Design File	LS	1	256	256	Setup 40 hrs., 2 miles x 90 hrs./mile; 3 intersections @ 12 hrs./intersection
19.4	Multi Post Sign Support Calculations	EA	4	3	12	Assume 4 signs
19.5	Sign Panel Design Analysis	EA	12	3	36	8 Advance OH Guide Signs + 4 Ground Mtd. Information Signs
19.6	Sign Lighting/Electrical Calculations	EA	12	2	24	
19.7	Quantities	LS	1	108	108	36 sheets @ 3 hrs./ sheet
19.8	Computation Book	LS	1	80	80	
19.9	Cost Estimate	LS	1	34	34	2 LRE's @ 2 hrs/update; 5 engr's estimate @ 6 hrs/update
19.10	Technical Special Provisions	LS	1	8	8	Assume 1 TSP's @ 8 hrs ea.
Signing & Pavement Marking Analysis Technical Subtotal					562	
19.11	Field Reviews	LS	3	4	12	1 Engr's @ x 4 hrs. x (60%, 90%, Plans Update)
19.12	Technical Meetings	LS	1	24	24	1 Engr's @ x 4 hrs. x 6 meetings
19.13	Quality Assurance/Quality Control	LS	%	8%	45	
19.14	Independent Peer Review	LS	%	4%	22	
19.15	Supervision	LS	%	8%	45	
Signing & Pavement Marking Analysis Nontechnical Subtotal					148	
19.16	Coordination	LS	%	4%	28	
19. Signing & Pavement Marking Analysis Total					738	

Project Activity 20: Signing and Pavement Marking Plans

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	1	6	1	6	
20.2	Summary of Pay Items-including CES Input		LS	1	8	1	8	
20.3	Tabulation of Quantities		Sheet	4	10	4	40	
20.4	General Notes / Pay Item Notes		Sheet	1	8	1	8	
20.5	Project Layout		Sheet	0	0	0	0	Not Applicable
20.6	Plan Sheet		Sheet	18	4	18	72	
20.7	Typical Details		EA	1	10	1	10	
20.8	Guide Sign Work Sheet (s)		EA	14	2	8	28	
20.9	Traffic Monitoring Site		EA	0	0		0	NIC
20.10	Cross Sections		EA	14	6	5	84	10 OH signs @ 8 hrs/sign; 4 grd mnt.@ 3 hrs./sign
20.11	Special Service Point Detail		EA	1	6	1	6	
20.12	Special Details		LS	1	10	1	10	
20.13	Interim Standards		LS	1	4	1	4	
Signing & Pavement Marking Plans Technical Subtotal						42	276	
20.14	Quality Assurance/Quality Control		LS	%	5%		14	
20.15	Supervision		LS	%	5%		14	
20. Signing & Pavement Marking Plans Total						42	304	

Project Activity 21: Signalization Analysis

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Units	No. of	Hours/Units	Total Hours	Comments
21.1	Traffic Data Collection	LS	1	72	72	crash reports:6 hrs, 8hr TMC: 16 hrs, 7da machine counts: 20 hrs (2 approaches), speed and delay studies:30 hrs
21.2	Traffic Data Analysis	PI	1	10	10	Data Analysis for Causeway Blvd / US 41
21.3	Signal Warrant Study	LS	1	0	0	Existing signal in place at Causeway Blvd/US 41. No other locations will need to be studied.
21.4	System Timings	LS	1	6	6	
21.5	Reference and Master Signalization Design File	PI	1	54	54	
21.6	Reference and Master Interconnect Communication Design File	LS	1	40	40	8 hours for set-up and 32 hours per mile for Causeway Blvd
21.7	Overhead Street Name Sign Design	EA	4	3	12	Estimated 2 mast arms for Causeway Blvd/US 41 ramps intersection with 2 signs located on each arm.
21.8	Pole Elevation Analysis	LS	1	2	2	
21.9	Traffic Signal Operation Report	LS	1	40	40	
21.10	Quantities	LS	1	10	10	
21.11	Cost Estimate	LS	1	11	11	3 hrs for LRE review and 8 hrs for engineer's estimate.
21.12	Technical Special Provisions	LS	2	12	24	Estimated 2 modified TSP.
Signalization Analysis Technical Subtotal					281	
21.13	Field Reviews	LS	1	40	40	2 Engr's @ x 4 hrs. x (Initial, 30%, 60%, 90%, Plans Update)
21.14	Technical Meetings	LS	1	96	96	2 Engr's @ x 4 hrs. x 12 meetings
21.15	Quality Assurance/Quality Control	LS	1	8%	22	
21.16	Independent Peer Review	LS	1	5%	14	
21.17	Supervision	LS	1	8%	22	
Signalization Analysis Nontechnical Subtotal					194	
21.18	Coordination	LS	1	3%	14	
19. Signalization Analysis Total					489	

Project Activity 22: signalization Plans

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
22.1	Key Sheet		Sheet	1	8	1	8	
22.2	Summary of Pay Items-including CES Input		Sheet	1	8	1	8	
22.3	Tabulation of Quantities		Sheet	1	8	1	8	
22.4	General Notes/Pay Item notes		Sheet	1	16	1	16	
22.5	Plan Sheet		Sheet	3	6	3	18	2 railroad crossings and 1 for Causeway Blvd / US 41 Ramps
22.6	Interconnect Plans		Sheet	4	4	4	16	
22.7	Traffic Monitoring Site		EA	2	12	2	24	1 traffic monitoring site for each road
22.8	Guide Sign Work Sheet		EA	2	2	2	4	
22.9	Special Details		Sheet	1	12	1	12	
22.10	Special Service Point Details		EA	1	8	1	8	
22.11	Mast Arm / Monotube Tabulation Sheet		PI	1	4	1	4	
22.12	Strain Pole Schedule		PI	0	0	0	0	Using mast arms
22.13	TCP Signal (Temporary)		EA	2	40	2	80	Need to signalize ramp intersections while constructing bridge and wall.
22.14	Temporary Detection Sheet		PI	2	4	2	8	
22.15	Utility Conflict Sheet		Sheet	1	12	1	12	
22.16	Interim Standards		LS	1	4	1	4	
Signalization Plans Technical Subtotal						24	230	
22.17	Quality Assurance/Quality Control		LS	1	8%	1	18	
22.18	Supervision		LS	1	8%	1	18	
22. Signalization Plans Total						24	266	

Project Activity 23: Lighting Analysis

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
23.1	Lighting Justification Report	LS	1	60	60	
23.2	Lighting Analysis Report	LS	1	120	120	
23.3	Aeronautical Evaluation	LS	1	0	0	NEAREST AIRPORT GREATER THAN 3 MILES
23.4	Voltage Drop Calculations	LS	1	40	40	
23.5	FDEP Coordination & Report	LS	1	0	0	ASSUMED SEA TURTLE COORDINATION NOT REQUIRED
23.6	Reference and Master Design Files	LS	1	340	340	60HR+(140HR/MILE X 2 MILES) = 340 HRS
23.7	Temporary Lighting	LS	1	80	80	
23.8	Design Documentation	LS	1	24	24	
23.9	Quantities	LS	1	60	60	Comp. Book Required
23.10	Cost Estimate	LS	1	18	18	2 LRE's @ 2 hrs/update; 4 engr's estimate @ 4 hrs/update
23.11	Technical Special Provisions	LS	1	0	0	ASSUMED TSP NOT REQUIRED
Lighting Analysis Technical Subtotal					742	
23.12	Field Reviews	LS	1	16	16	2 TRIPS X 1 PERSON X 8 HRS
23.13	Technical Meetings	LS	1	24	24	
23.14	Quality Assurance/Quality Control	LS	%	8%	59	
23.15	Independent Peer Review	LS	%	3%	22	
23.16	Supervision	LS	%	8%	59	
Lighting Analysis Nontechnical Subtotal					180	
23.17	Coordination	LS	%	3%	28	
23. Lighting Analysis Total					950	

Project Activity 24: Lighting Plans

Estimator:

US 41 / Causeway Interchange Project
411561-1

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
24.1	Key Sheet		Sheet	1	8	1	8	
24.2	Summary of Pay Items - including CES Input		Sheet	1	8	1	8	
24.3	Tabulation of Quantities		Sheet	2	9	2	18	
24.4	General Notes/Pay Item notes		Sheet	1	8	1	8	
24.5	Pole Data, Legend & Criteria		Sheet	2	20	2	40	
24.6	Service Point Details		Sheet	1	16	1	16	
24.7	Project Layout		Sheet	0	0	0	0	
24.8	Plan Sheet		Sheet	16	4	16	64	
24.9	Special Details		Sheet	4	24	4	96	3-UNDER DECK SHEETS AND 1-LUMINARE DETAILS
24.10	Temporary Lighting Data & Details		Sheet	2	20	2	40	
24.11	Traffic Control Plan Sheets		Sheet	0	0	0	0	
24.12	Interim Standards		LS	1	4	0	4	
Lighting Plans Technical Subtotal						30	302	
24.13	Quality Assurance/Quality Control		LS	%	8%		24	
24.14	Supervision		LS	%	8%		24	
24. Lighting Plans Total						30	350	

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FDOT Long Range Estimating System

R1: Project Summary without Components Report

Project: 255599-1-52-02

Letting Date: 09/2007

Description: U.S. 41 - Causeway Blvd. Intersection

District: 07 County: 10 HILLSBOROUGH

Project Manager: Linda Crescentini

Version 1-P Project Grand Total		\$52,049,823.02
Description:	U.S. 41 - Causeway Blvd. Intersection	
<hr/>		
Sequence 1 NDU Total		\$25,852,271.06
Sequence 2 NDU Total		\$17,040,144.66
Project Sequences Subtotal		\$42,892,415.72
Maintenance of Traffic	10.00 %	\$4,289,241.57
Mobilization	10.00 %	\$4,718,165.73
Project Sequences Total		\$51,899,823.02
Scope Creep	0.00 %	\$0.00
Project Non-Bid Subtotal		\$150,000.00
Version 1-P Project Grand Total		\$52,049,823.02

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FDOT Long Range Estimating System

R2: Project Summary with Components Report

Project: 255599-1-52-02

Letting Date: 09/2007

Description: U.S. 41 - Causeway Blvd. Intersection

District: 07 County: 10 HILLSBOROUGH

Project Manager: Linda Crescentini

Version 1-P Project Grand Total

\$52,049,823.02

Description: U.S. 41 - Causeway Blvd. Intersection

Sequence 1 NDU	Component Subtotals:	
Earthwork		\$7,589,824.37
Roadway		\$2,262,675.73
Shoulder		\$404,788.37
Median		\$194,935.84
Drainage		\$1,700,138.49
Intersections		\$250,063.84
Signing		\$156,510.13
Lighting		\$169,488.17
Bridges		\$4,992,346.12
Retaining Walls		\$8,131,500.00
Sequence 1 Total		\$25,852,271.06
Sequence 2 NDU	Component Subtotals:	
Earthwork		\$6,860,390.40
Roadway		\$1,642,649.69
Shoulder		\$404,788.37
Median		\$194,935.84
Drainage		\$786,951.94
Intersections		\$606,150.38
Signing		\$156,510.13
Lighting		\$169,488.17
Signalizations		\$153,779.74
Bridges		\$1,852,500.00
Retaining Walls		\$4,212,000.00
Sequence 2 Total		\$17,040,144.66
Project Sequences Subtotal		\$42,892,415.72
Maintenance of Traffic	10.00 %	\$4,289,241.57
Mobilization	10.00 %	\$4,718,165.73
Project Sequences Total		\$51,899,823.02
Scope Creep	0.00 %	\$0.00
Project Non-Bid Subtotal		\$150,000.00
Version 1-P Project Grand Total		\$52,049,823.02

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FDOT Long Range Estimating System

R3: Project Details by Sequence Report

Project: 255599-1-52-02

Letting Date: 09/2007

Description: U.S. 41 - Causeway Blvd. Intersection

District: 07

County: 10 HILLSBOROUGH

Market Area: 08

Units: English

Contract Class: Lump Sum Project: N

Design/Build: N

Project Length: 2.000 MI

Project Manager: Linda Crescentini

Version 1-P Project Grand Total

\$52,049,823.02

Description: U.S. 41 - Causeway Blvd. Intersection

Sequence: 1 NDU - New Construction, Divided, Urban

Net Length: 1.000 MI

Description: U.S. 41

Special U.S. 41 is elevated over CSX Railroad Crossing and Causeway Blvd.

Conditions:

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	160.00 / 180.00
Incidental Clearing and Grubbing Area	2.00
Alignment Number	1
Distance	1.000
Top of Structural Course For Begin Section	112.00
Top of Structural Course For End Section	112.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	41.21	AC	\$7,115.26	\$293,219.86
110-1-1	CLEARING & GRUBBING	2.00	AC	\$7,115.26	\$14,230.52
120-6	EMBANKMENT	465,922.84	CY	\$15.63	\$7,282,373.99

Earthwork Component Total

\$7,589,824.37

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	48.00 / 48.00
Structural Spread Rate	300
Friction Course Spread Rate	160

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	STABILIZATION TYPE B	62,374.40	SY	\$7.90	\$492,757.76
285-709	BASE OPTIONAL (BASE GROUP 09)	56,320.00	SY	\$9.64	\$542,924.80
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	8,448.00	TN	\$55.70	\$470,553.60
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	4,505.60	TN	\$82.08	\$369,819.65

Turnouts/Crossovers Subcomponent

Description	Value
Asphalt Adjustment	5.00
Stabilization Code	Y
Base Code	Y
Friction Course Code	Y

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	STABILIZATION TYPE B	3,118.72	SY	\$7.90	\$24,637.89
285-709	BASE OPTIONAL (BASE GROUP 09)	2,816.00	SY	\$9.64	\$27,146.24
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	422.40	TN	\$55.70	\$23,527.68
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	225.28	TN	\$82.08	\$18,490.98

Pavement Marking Subcomponent

Description	Value
Solid Stripe No. of Stripes	4
Solid Stripe No. of Applications	2
Skip Stripe No. of Stripes	4
Skip Stripe No. of Applications	2
Top Layer Thermoplastic	Y

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	675.00	EA	\$4.75	\$3,206.25
710-21	TRAFFIC STRIPE SKIP (WHITE/BLACK)	4.00	GM	\$361.06	\$1,444.24
710-23-61	TRAFFIC STRIPE SOLID (WHITE/BLACK) (6")	4.00	NM	\$663.47	\$2,653.88
711-31	TRAFFIC STRIPE SKIP (THERMO) (WH)	4.00	GM	\$7,825.72	\$31,302.88
711-37-61	TRAF STRIPE SOLID (THERMO) (WH)(6")	4.00	NM	\$2,322.15	\$9,288.60

Peripherals Subcomponent

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00

Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
339-1	ASPHALT PAVEMENT MISCELLANEOUS	136.00	TN	\$113.98	\$15,501.28
536-1-1	GUARDRAIL (ROADWAY)	4,000.00	LF	\$11.06	\$44,240.00
536-82	GUARDRAIL END ANCH (CONC BARRIER WALL)	8.00	EA	\$1,200.00	\$9,600.00
544-75-14	IMPACT ATTENUATOR VEHICULAR (QUADGURD)	8.00	EA	\$21,947.50	\$175,580.00
Roadway Component Total					\$2,262,675.73

SHOULDER COMPONENT**User Input Data**

Description	Value
Total Outside Shoulder Width L/R	12.25 / 12.25
Total Outside Shoulder Sod Width L/R	5.00 / 5.00
Sidewalk Width L/R	5.00 / 5.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-10	CURB & GUTTER CONC (TYPE F)	5,280.00	LF	\$22.16	\$117,004.80
520-1-10	CURB & GUTTER CONC (TYPE F)	5,280.00	LF	\$22.16	\$117,004.80
522-1	SIDEWALK CONCRETE (4" THICK)	5,866.67	SY	\$27.56	\$161,685.43
575-1	SODDING	5,866.67	SY	\$1.55	\$9,093.34
Shoulder Component Total					\$404,788.37

MEDIAN COMPONENT**User Input Data**

Description	Value
Total Median Width	22.00
Sod Width	5.34

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CURB & GUTTER CONC (TYPE E)	10,560.00	LF	\$18.00	\$190,080.00
575-1	SODDING	3,132.80	SY	\$1.55	\$4,855.84
Median Component Total					\$194,935.84

DRAINAGE COMPONENT**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II (ENDWALLS)	18.00	CY	\$2,312.76	\$41,629.68
425-1-351	INLETS (CURB) (TYPE P-5) (<10')	36.00	EA	\$3,284.26	\$118,233.36

425-1-451	INLETS (CURB) (TYPE J-5) (<10')	10.00 EA	\$4,000.00	\$40,000.00
425-1-521	INLETS (DT BOT) (TYPE C) (<10')	5.00 EA	\$1,679.18	\$8,395.90
425-2-41	MANHOLES (P-7) (<10')	5.00 EA	\$2,787.50	\$13,937.50
430-171-125	PIPE CULV(OPT MATL)(ROUND) (18"SS)	2,646.00 LF	\$39.27	\$103,908.42
430-171-141	PIPE CULV(OPT MATL)(ROUND) (48"SS)	5,000.00 LF	\$87.67	\$438,350.00
430-172-138	PIPE CULV(OPT MATL)(ROUND) (36"CD)	236.00 LF	\$93.33	\$22,025.88
575-1	SODDING	304.00 SY	\$1.55	\$471.20

Retention Basin 1

Description	Value
Size	1 AC
Multiplier	1
Depth	5.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.00	AC	\$7,115.26	\$7,115.26
120-1	EXCAVATION REGULAR	8,066.67	CY	\$10.86	\$87,604.04
400-2-2	CONC CLASS II (ENDWALLS)	18.00	CY	\$2,312.76	\$41,629.68
425-1-541	INLETS (DT BOT) (TYPE D) (<10')	1.00	EA	\$2,550.00	\$2,550.00
425-2-71	MANHOLES (J-7) (<10')	1.00	EA	\$3,887.50	\$3,887.50
430-171-140	PIPE CULV(OPT MATL)(ROUND) (42"SS)	50.00	LF	\$73.00	\$3,650.00
430-171-142	PIPE CULV(OPT MATL)(ROUND) (54"SS)	200.00	LF	\$105.67	\$21,134.00
550-2	FENCING TYPE B	840.00	LF	\$6.48	\$5,443.20
550-3-2	FENCE CORNER POST (TYPE B)	6.00	EA	\$98.96	\$593.76
550-79-20	FENCE GATE (SLIDING) (CANTILEVER 20')	1.00	EA	\$1,527.87	\$1,527.87
575-1	SODDING	4,840.00	SY	\$1.55	\$7,502.00

Retention Basin 2

Description	Value
Size	1 AC
Multiplier	1
Depth	5.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.00	AC	\$7,115.26	\$7,115.26
120-1	EXCAVATION REGULAR	8,066.67	CY	\$10.86	\$87,604.04
400-2-2	CONC CLASS II (ENDWALLS)	18.00	CY	\$2,312.76	\$41,629.68
425-1-541	INLETS (DT BOT) (TYPE D) (<10')	1.00	EA	\$2,550.00	\$2,550.00
425-2-71	MANHOLES (J-7) (<10')	1.00	EA	\$3,887.50	\$3,887.50
430-171-140	PIPE CULV(OPT MATL)(ROUND) (42"SS)	50.00	LF	\$73.00	\$3,650.00
430-171-142	PIPE CULV(OPT MATL)(ROUND) (54"SS)	200.00	LF	\$105.67	\$21,134.00
550-2	FENCING TYPE B	840.00	LF	\$6.48	\$5,443.20
550-3-2	FENCE CORNER POST (TYPE B)	6.00	EA	\$98.96	\$593.76
550-79-20	FENCE GATE (SLIDING)	1.00	EA	\$1,527.87	\$1,527.87

	(CANTILEVER 20')			
575-1	SODDING	4,840.00 SY	\$1.55	\$7,502.00

Retention Basin 3

Description	Value
Size	1 AC
Multiplier	1
Depth	5.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.00	AC	\$7,115.26	\$7,115.26
120-1	EXCAVATION REGULAR	8,066.67	CY	\$10.86	\$87,604.04
400-2-2	CONC CLASS II (ENDWALLS)	18.00	CY	\$2,312.76	\$41,629.68
425-1-541	INLETS (DT BOT) (TYPE D) (<10')	1.00	EA	\$2,550.00	\$2,550.00
425-2-71	MANHOLES (J-7) (<10')	1.00	EA	\$3,887.50	\$3,887.50
430-171-140	PIPE CULV(OPT MATL)(ROUND) (42"SS)	50.00	LF	\$73.00	\$3,650.00
430-171-142	PIPE CULV(OPT MATL)(ROUND) (54"SS)	200.00	LF	\$105.67	\$21,134.00
550-2	FENCING TYPE B	840.00	LF	\$6.48	\$5,443.20
550-3-2	FENCE CORNER POST (TYPE B)	6.00	EA	\$98.96	\$593.76
550-79-20	FENCE GATE (SLIDING) (CANTILEVER 20')	1.00	EA	\$1,527.87	\$1,527.87
575-1	SODDING	4,840.00 SY		\$1.55	\$7,502.00

Retention Basin 4

Description	Value
Size	1 AC
Multiplier	1
Depth	5.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.00	AC	\$7,115.26	\$7,115.26
120-1	EXCAVATION REGULAR	8,066.67	CY	\$10.86	\$87,604.04
400-2-2	CONC CLASS II (ENDWALLS)	18.00	CY	\$2,312.76	\$41,629.68
425-1-541	INLETS (DT BOT) (TYPE D) (<10')	1.00	EA	\$2,550.00	\$2,550.00
425-2-71	MANHOLES (J-7) (<10')	1.00	EA	\$3,887.50	\$3,887.50
430-171-140	PIPE CULV(OPT MATL)(ROUND) (42"SS)	50.00	LF	\$73.00	\$3,650.00
430-171-142	PIPE CULV(OPT MATL)(ROUND) (54"SS)	200.00	LF	\$105.67	\$21,134.00
550-2	FENCING TYPE B	840.00	LF	\$6.48	\$5,443.20
550-3-2	FENCE CORNER POST (TYPE B)	6.00	EA	\$98.96	\$593.76
550-79-20	FENCE GATE (SLIDING) (CANTILEVER 20')	1.00	EA	\$1,527.87	\$1,527.87
575-1	SODDING	4,840.00 SY		\$1.55	\$7,502.00

Retention Basin 5

Description	Value
Size	1 AC
Multiplier	1

Depth 5.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.00	AC	\$7,115.26	\$7,115.26
120-1	EXCAVATION REGULAR	8,066.67	CY	\$10.86	\$87,604.04
400-2-2	CONC CLASS II (ENDWALLS)	18.00	CY	\$2,312.76	\$41,629.68
425-1-541	INLETS (DT BOT) (TYPE D) (<10')	1.00	EA	\$2,550.00	\$2,550.00
425-2-71	MANHOLES (J-7) (<10')	1.00	EA	\$3,887.50	\$3,887.50
430-171-140	PIPE CULV(OPT MATL)(ROUND) (42"SS)	50.00	LF	\$73.00	\$3,650.00
430-171-142	PIPE CULV(OPT MATL)(ROUND) (54"SS)	200.00	LF	\$105.67	\$21,134.00
550-2	FENCING TYPE B	840.00	LF	\$6.48	\$5,443.20
550-3-2	FENCE CORNER POST (TYPE B)	6.00	EA	\$98.96	\$593.76
550-79-20	FENCE GATE (SLIDING) (CANTILEVER 20')	1.00	EA	\$1,527.87	\$1,527.87
575-1	SODDING	4,840.00	SY	\$1.55	\$7,502.00
Drainage Component Total					\$1,700,138.49

INTERSECTIONS COMPONENT**Intersection 1**

Description	Value
Mainline No. of Left Turn Lanes	0
Mainline No. of Right Turn Lanes	0
Mainline Design Speed	45
Cross Street Thru Lanes	2
Cross Street No. of Left Turn Lanes	0
Cross Street No. of Right Turn Lanes	0
Cross Street Design Speed	45
T-Intersection?	N
Multiplier	1
Description	

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.78	AC	\$7,115.26	\$12,665.16
120-1	EXCAVATION REGULAR	732.06	CY	\$10.86	\$7,950.17
160-4	STABILIZATION TYPE B	353.22	SY	\$7.90	\$2,790.44
160-4	STABILIZATION TYPE B	1,810.03	SY	\$7.90	\$14,299.24
285-709	BASE OPTIONAL (BASE GROUP 09)	353.22	SY	\$9.64	\$3,405.04
285-709	BASE OPTIONAL (BASE GROUP 09)	1,810.03	SY	\$9.64	\$17,448.69
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	52.98	TN	\$55.70	\$2,950.99
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	271.50	TN	\$55.70	\$15,122.55
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	28.26	TN	\$82.08	\$2,319.58
337-7-6	ASPH CONC FC(INC BIT/RUB)	144.80	TN	\$82.08	\$11,885.18

	FC12.5(FC-6)			
520-1-7	CURB & GUTTER CONC (TYPE E)	202.84 LF	\$18.00	\$3,651.12
520-1-10	CURB & GUTTER CONC (TYPE F)	658.00 LF	\$22.16	\$14,581.28
522-1	SIDEWALK CONCRETE (4" THICK)	365.56 SY	\$27.56	\$10,074.83
522-2	SIDEWALK CONCRETE (6" THICK)	173.89 SY	\$30.60	\$5,321.03
575-1	SODDING	365.56 SY	\$1.55	\$566.62

Intersection 2

Description	Value
Mainline No. of Left Turn Lanes	0
Mainline No. of Right Turn Lanes	0
Mainline Design Speed	45
Cross Street Thru Lanes	2
Cross Street No. of Left Turn Lanes	0
Cross Street No. of Right Turn Lanes	0
Cross Street Design Speed	45
T-Intersection?	N
Multiplier	1
Description	

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.78	AC	\$7,115.26	\$12,665.16
120-1	EXCAVATION REGULAR	732.06	CY	\$10.86	\$7,950.17
160-4	STABILIZATION TYPE B	353.22	SY	\$7.90	\$2,790.44
160-4	STABILIZATION TYPE B	1,810.03	SY	\$7.90	\$14,299.24
285-709	BASE OPTIONAL (BASE GROUP 09)	353.22	SY	\$9.64	\$3,405.04
285-709	BASE OPTIONAL (BASE GROUP 09)	1,810.03	SY	\$9.64	\$17,448.69
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	52.98	TN	\$55.70	\$2,950.99
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	271.50	TN	\$55.70	\$15,122.55
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	28.26	TN	\$82.08	\$2,319.58
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	144.80	TN	\$82.08	\$11,885.18
520-1-7	CURB & GUTTER CONC (TYPE E)	202.84	LF	\$18.00	\$3,651.12
520-1-10	CURB & GUTTER CONC (TYPE F)	658.00	LF	\$22.16	\$14,581.28
522-1	SIDEWALK CONCRETE (4" THICK)	365.56	SY	\$27.56	\$10,074.83
522-2	SIDEWALK CONCRETE (6" THICK)	173.89	SY	\$30.60	\$5,321.03
575-1	SODDING	365.56	SY	\$1.55	\$566.62

Intersections Component Total

\$250,063.84

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-40-1	SIGN SINGLE POST (LESS THAN 12)	24.00	AS	\$234.46	\$5,627.04
700-40-2	SIGN SINGLE POST (12 - 25)	2.00	AS	\$632.52	\$1,265.04
700-41-10	SIGN MULTI POST (50 OR LESS)	2.00	AS	\$2,580.73	\$5,161.46

700-41-11	SIGN MULTI-POST (51-100)	2.00 AS	\$3,128.67	\$6,257.34
700-44-066	SGN LT'D OH TR (T 101-120, S 501-600)	1.00 AS	\$76,954.91	\$76,954.91
700-45-32	SGN LT'D OH CTLVR(C 31-40, S 51-100)	2.00 AS	\$25,000.00	\$50,000.00
700-83	SIGN OVHD (BRIDGE MOUNTED)	2.00 AS	\$5,622.17	\$11,244.34
Signing Component Total				\$156,510.13

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description	Value
Spacing	MIN

High Mast Lighting Subcomponent

Description	Value
Cost per Pole	18,000.00
Number of Poles	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
715-1-113	CONDUCTORS (F&I)(INSULATED) (NO 6)	19,284.00	LF	\$1.40	\$26,997.60
715-2-115	CONDUIT UNDERGROUND, SCH 40	5,280.00	LF	\$4.03	\$21,278.40
715-2-215	CONDUIT UNDERPAVEMENT SCH 40	1,048.00	LF	\$16.19	\$16,967.12
715-14-11	PULL BOX (F&I) (ROADSIDE)	35.00	EA	\$211.75	\$7,411.25
715-500-1	POLE CABLE DIST SYS (CONVENTIONAL)	35.00	EA	\$1,025.00	\$35,875.00
715-511-140	LIGHT POLE COMPLETE (40 FT)	35.00	EA	\$1,741.68	\$60,958.80
Lighting Component Total					\$169,488.17

BRIDGES COMPONENT

Bridge 1

Description	Value
Length	324.00
Width	128.00
Type	Overpass Bridge
Substructure Type	PreCast
Superstructure Type	Steel Box AASHTO Girder
Cost Factor	1.00
Removal of existing structures area	0.00
Default Cost per SF	\$65.00
Factored Cost per SF	\$65.00
Final Cost per SF	\$68.34
Basic Bridge Cost	\$2,695,680.00
Description	U.S. 41 OVER CSX RAILROAD

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
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400-2-10	CONC CLASS II (APPROACH SLABS)	284.44 CY	\$400.00	\$113,776.00
415-1-9	REINF STEEL (APPROACH SLABS)	49,777.00 LB	\$0.50	\$24,888.50
Bridge 1 Total				\$2,834,344.50

Bridge 2

Description	Value
Length	260.00
Width	120.00
Type	Overpass Bridge
Substructure Type	PreCast
Superstructure Type	Steel Box AASHTO Girder
Cost Factor	1.00
Removal of existing structures area	0.00
Default Cost per SF	\$65.00
Factored Cost per SF	\$65.00
Final Cost per SF	\$69.17
Basic Bridge Cost	\$2,028,000.00
Description	U.S. 41 OVER CAUSEWAY BLVD.

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-10	CONC CLASS II (APPROACH SLABS)	266.67 CY	\$400.00	\$106,668.00
415-1-9	REINF STEEL (APPROACH SLABS)	46,667.25 LB	\$0.50	\$23,333.62
Bridge 2 Total				\$2,158,001.62
Bridges Component Total				\$4,992,346.12

RETAINING WALLS COMPONENT

Retainig Wall 1

Description	Value
Length	1,650.00
Begin height	30.00
End Height	30.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RETAINING WALL (PERMANENT)	49,500.00 SF	\$39.00	\$1,930,500.00

Retainig Wall 2

Description	Value
Length	2,000.00
Begin height	30.00
End Height	30.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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548-12 RETAINING WALL (PERMANENT) 60,000.00 SF \$39.00 \$2,340,000.00

Retainig Wall 3

Description	Value
Length	1,700.00
Begin height	30.00
End Height	30.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RETAINING WALL (PERMANENT)	51,000.00 SF	\$39.00	\$1,989,000.00

Retainig Wall 4

Description	Value
Length	1,600.00
Begin height	30.00
End Height	30.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RETAINING WALL (PERMANENT)	48,000.00 SF	\$39.00	\$1,872,000.00

Retaining Walls Component Total \$8,131,500.00

Sequence 1 Total \$25,852,271.06

Sequence: 2 NDU - New Construction, Divided, Urban
Description: Causeway Blvd.
Special Causeway Blvd. is elevated over CSX Railroad.
Conditions:

Net Length: 1.000 MI

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	105.00 / 105.00
Incidental Clearing and Grubbing Area	2.00
Alignment Number	1
Distance	1.000
Top of Structural Course For Begin Section	112.00
Top of Structural Course For End Section	112.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	25.45	AC	\$7,115.26	\$181,083.37
110-1-1	CLEARING & GRUBBING	2.00	AC	\$7,115.26	\$14,230.52
120-6	EMBANKMENT	426,428.44	CY	\$15.63	\$6,665,076.52
Earthwork Component Total					\$6,860,390.40

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	300
Friction Course Spread Rate	160

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	STABILIZATION TYPE B	48,294.40	SY	\$7.90	\$381,525.76
285-709	BASE OPTIONAL (BASE GROUP 09)	42,240.00	SY	\$9.64	\$407,193.60
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	6,336.00	TN	\$55.70	\$352,915.20
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	3,379.20	TN	\$82.08	\$277,364.74

Turnouts/Crossovers Subcomponent

Description	Value
Asphalt Adjustment	5.00
Stabilization Code	Y
Base Code	Y

Friction Course Code Y

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	STABILIZATION TYPE B	2,414.72	SY	\$7.90	\$19,076.29
285-709	BASE OPTIONAL (BASE GROUP 09)	2,112.00	SY	\$9.64	\$20,359.68
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	316.80	TN	\$55.70	\$17,645.76
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	168.96	TN	\$82.08	\$13,868.24

Pavement Marking Subcomponent

Description	Value
Solid Stripe No. of Stripes	4
Solid Stripe No. of Applications	2
Skip Stripe No. of Stripes	2
Skip Stripe No. of Applications	2
Top Layer Thermoplastic	Y

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	405.00	EA	\$4.75	\$1,923.75
710-21	TRAFFIC STRIPE SKIP (WHITE/BLACK)	2.00	GM	\$361.06	\$722.12
710-23-61	TRAFFIC STRIPE SOLID (WHITE/BLACK) (6")	4.00	NM	\$663.47	\$2,653.88
711-31	TRAFFIC STRIPE SKIP (THERMO) (WH)	2.00	GM	\$7,825.72	\$15,651.44
711-37-61	TRAF STRIPE SOLID (THERMO) (WH)(6")	4.00	NM	\$2,322.15	\$9,288.60

Peripherals Subcomponent

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
339-1	ASPHALT PAVEMENT MISCELLANEOUS	68.00	TN	\$113.98	\$7,750.64
536-1-1	GUARDRAIL (ROADWAY)	2,000.00	LF	\$11.06	\$22,120.00
536-82	GUARDRAIL END ANCH (CONC BARRIER WALL)	4.00	EA	\$1,200.00	\$4,800.00
544-75-14	IMPACT ATTENUATOR VEHICULAR (QUADGURD)	4.00	EA	\$21,947.50	\$87,790.00

Roadway Component Total \$1,642,649.69

SHOULDER COMPONENT**User Input Data**

Description	Value
Total Outside Shoulder Width L/R	12.25 / 12.25
Total Outside Shoulder Sod Width L/R	5.00 / 5.00
Sidewalk Width L/R	5.00 / 5.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-10	CURB & GUTTER CONC (TYPE F)	5,280.00	LF	\$22.16	\$117,004.80
520-1-10	CURB & GUTTER CONC (TYPE F)	5,280.00	LF	\$22.16	\$117,004.80
522-1	SIDEWALK CONCRETE (4" THICK)	5,866.67	SY	\$27.56	\$161,685.43
575-1	SODDING	5,866.67	SY	\$1.55	\$9,093.34
Shoulder Component Total					\$404,788.37

MEDIAN COMPONENT**User Input Data**

Description	Value
Total Median Width	22.00
Sod Width	5.34

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CURB & GUTTER CONC (TYPE E)	10,560.00	LF	\$18.00	\$190,080.00
575-1	SODDING	3,132.80	SY	\$1.55	\$4,855.84
Median Component Total					\$194,935.84

DRAINAGE COMPONENT**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II (ENDWALLS)	18.00	CY	\$2,312.76	\$41,629.68
425-1-351	INLETS (CURB) (TYPE P-5) (<10')	36.00	EA	\$3,284.26	\$118,233.36
425-1-451	INLETS (CURB) (TYPE J-5) (<10')	10.00	EA	\$4,000.00	\$40,000.00
425-1-521	INLETS (DT BOT) (TYPE C) (<10')	5.00	EA	\$1,679.18	\$8,395.90
425-2-41	MANHOLES (P-7) (<10')	5.00	EA	\$2,787.50	\$13,937.50
430-171-125	PIPE CULV(OPT MATL)(ROUND) (18"SS)	2,646.00	LF	\$39.27	\$103,908.42
430-171-141	PIPE CULV(OPT MATL)(ROUND) (48"SS)	5,000.00	LF	\$87.67	\$438,350.00
430-172-138	PIPE CULV(OPT MATL)(ROUND) (36"CD)	236.00	LF	\$93.33	\$22,025.88
575-1	SODDING	304.00	SY	\$1.55	\$471.20
Drainage Component Total					\$786,951.94

INTERSECTIONS COMPONENT

Intersection 1

Description	Value
Mainline No. of Left Turn Lanes	2
Mainline No. of Right Turn Lanes	2
Mainline Design Speed	45
Cross Street Thru Lanes	4
Cross Street No. of Left Turn Lanes	2
Cross Street No. of Right Turn Lanes	2
Cross Street Design Speed	45
T-Intersection?	N
Multiplier	1
Description	

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.75	AC	\$7,115.26	\$19,566.96
120-1	EXCAVATION REGULAR	2,360.80	CY	\$10.86	\$25,638.29
160-4	STABILIZATION TYPE B	2,035.89	SY	\$7.90	\$16,083.53
160-4	STABILIZATION TYPE B	5,837.14	SY	\$7.90	\$46,113.41
285-709	BASE OPTIONAL (BASE GROUP 09)	2,035.89	SY	\$9.64	\$19,625.98
285-709	BASE OPTIONAL (BASE GROUP 09)	5,837.14	SY	\$9.64	\$56,270.03
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	305.38	TN	\$55.70	\$17,009.67
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	875.57	TN	\$55.70	\$48,769.25
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	162.87	TN	\$82.08	\$13,368.37
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	466.97	TN	\$82.08	\$38,328.90
520-1-7	CURB & GUTTER CONC (TYPE E)	202.84	LF	\$18.00	\$3,651.12
520-1-10	CURB & GUTTER CONC (TYPE F)	1,106.00	LF	\$22.16	\$24,508.96
520-5-11	TRAF SEP CONC (TYPE I) (4' WIDE)	670.00	LF	\$34.88	\$23,369.60
520-5-11	TRAF SEP CONC (TYPE I) (4' WIDE)	470.00	LF	\$34.88	\$16,393.60
522-1	SIDEWALK CONCRETE (4" THICK)	614.44	SY	\$27.56	\$16,933.97
522-2	SIDEWALK CONCRETE (6" THICK)	173.89	SY	\$30.60	\$5,321.03
575-1	SODDING	614.44	SY	\$1.55	\$952.38

Intersection 2

Description	Value
Mainline No. of Left Turn Lanes	0
Mainline No. of Right Turn Lanes	0
Mainline Design Speed	45
Cross Street Thru Lanes	2
Cross Street No. of Left Turn Lanes	1
Cross Street No. of Right Turn Lanes	0
Cross Street Design Speed	45
T-Intersection?	N
Multiplier	1
Description	

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.75	AC	\$7,115.26	\$19,566.96
120-1	EXCAVATION REGULAR	1,245.07	CY	\$10.86	\$13,521.46
160-4	STABILIZATION TYPE B	382.56	SY	\$7.90	\$3,022.22
160-4	STABILIZATION TYPE B	3,078.47	SY	\$7.90	\$24,319.91
285-709	BASE OPTIONAL (BASE GROUP 09)	382.56	SY	\$9.64	\$3,687.88
285-709	BASE OPTIONAL (BASE GROUP 09)	3,078.47	SY	\$9.64	\$29,676.45
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	57.38	TN	\$55.70	\$3,196.07
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	461.77	TN	\$55.70	\$25,720.59
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	30.60	TN	\$82.08	\$2,511.65
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	246.28	TN	\$82.08	\$20,214.66
520-1-7	CURB & GUTTER CONC (TYPE E)	202.84	LF	\$18.00	\$3,651.12
520-1-10	CURB & GUTTER CONC (TYPE F)	1,106.00	LF	\$22.16	\$24,508.96
520-5-11	TRAF SEP CONC (TYPE I) (4' WIDE)	500.00	LF	\$34.88	\$17,440.00
522-1	SIDEWALK CONCRETE (4" THICK)	614.44	SY	\$27.56	\$16,933.97
522-2	SIDEWALK CONCRETE (6" THICK)	173.89	SY	\$30.60	\$5,321.03
575-1	SODDING	614.44	SY	\$1.55	\$952.38
Intersections Component Total					\$606,150.38

SIGNING COMPONENT

Pay Items	Description	Quantity	Unit	Unit Price	Extended Amount
700-40-1	SIGN SINGLE POST (LESS THAN 12)	24.00	AS	\$234.46	\$5,627.04
700-40-2	SIGN SINGLE POST (12 - 25)	2.00	AS	\$632.52	\$1,265.04
700-41-10	SIGN MULTI POST (50 OR LESS)	2.00	AS	\$2,580.73	\$5,161.46
700-41-11	SIGN MULTI-POST (51-100)	2.00	AS	\$3,128.67	\$6,257.34
700-44-066	SGN LT'D OH TR (T 101-120, S 501-600)	1.00	AS	\$76,954.91	\$76,954.91
700-45-32	SGN LT'D OH CTLVR(C 31-40, S 51-100)	2.00	AS	\$25,000.00	\$50,000.00
700-83	SIGN OVHD (BRIDGE MOUNTED)	2.00	AS	\$5,622.17	\$11,244.34
Signing Component Total					\$156,510.13

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description	Value
Spacing	MIN

High Mast Lighting Subcomponent

Description	Value
Cost per Pole	18,000.00
Number of Poles	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
715-1-113	CONDUCTORS (F&I)(INSULATED) (NO 6)	19,284.00	LF	\$1.40	\$26,997.60
715-2-115	CONDUIT UNDERGROUND, SCH 40	5,280.00	LF	\$4.03	\$21,278.40
715-2-215	CONDUIT UNDERPAVEMENT SCH 40	1,048.00	LF	\$16.19	\$16,967.12
715-14-11	PULL BOX (F&I) (ROADSIDE)	35.00	EA	\$211.75	\$7,411.25
715-500-1	POLE CABLE DIST SYS (CONVENTIONAL)	35.00	EA	\$1,025.00	\$35,875.00
715-511-140	LIGHT POLE COMPLETE (40 FT)	35.00	EA	\$1,741.68	\$60,958.80
Lighting Component Total					\$169,488.17

SIGNALIZATIONS COMPONENT

Signalization 1

Description	Value
Type	4 Lane Mast Arm
Multiplier	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-1-12	CONDUIT (F&I) (UNDERGROUND)	750.00	LF	\$4.56	\$3,420.00
630-1-14	CONDUIT (F&I) (UG - JACKED)	250.00	LF	\$12.65	\$3,162.50
632-7-1	CABLE (SIGNAL) (F&I)	1.00	PI	\$2,058.97	\$2,058.97
635-1-11	PULL & JUNC BOX (F&I) (PULL BOX)	16.00	EA	\$215.97	\$3,455.52
639-1-22	ELECTRIC POWER SVC (UNDERGROUND)	1.00	AS	\$486.67	\$486.67
639-2-1	ELECTRICAL SERVICE WIRE	60.00	LF	\$1.19	\$71.40
649-415-003	M/ARM(F&I/HL)(1ST(B5)2ND(0) POLE(Q3)	4.00	EA	\$17,000.00	\$68,000.00
650-51-311	SIGNAL TRAFFIC(F&I)(3 SECT 1 WAY)(STD)	12.00	AS	\$589.00	\$7,068.00
653-111	SIGNAL PEDESTRIAN (12" INCANDESCENT)	8.00	AS	\$353.33	\$2,826.64
659-101	SIGNAL HEAD AUX (BACK PLT 3 SECT)	8.00	EA	\$82.10	\$656.80
659-109	SGNL HEAD AUX (CONC PED TYPE II)	1.00	EA	\$521.82	\$521.82
660-1-102	LOOP DETECT INDUC (TYPE 2) (F&I)	14.00	EA	\$197.18	\$2,760.52
660-2-106	LOOP ASSEMBLY (F&I) (TYPE F)	14.00	AS	\$732.25	\$10,251.50
665-11	DET PED(F&I)(DET STA POLE OR CAB MTD)	8.00	EA	\$114.90	\$919.20
670-5-111	CNTL ASSEM ACT SS F&I NEMA PRE(ONE)	1.00	AS	\$14,000.00	\$14,000.00
700-48-19	SIGN PANEL (F & I) (16 - 100)	4.00	EA	\$1,080.00	\$4,320.00

Traffic Monitoring 1

Description	Value
Lanes	4

Multiplier 1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
555-1-1	DIRECTIONAL BORE (> THAN 6")	40.00	LF	\$15.50	\$620.00
630-1-12	CONDUIT (F&I) (UNDERGROUND)	150.00	LF	\$4.56	\$684.00
635-1-11	PULL & JUNC BOX (F&I) (PULL BOX)	3.00	EA	\$215.97	\$647.91
743-70-11	TMS VEH S/CLS. UNIT(F&I) (ELECTRON. CBL)	1.00	AS	\$4,974.07	\$4,974.07
744-70-11	TMS SOLAR POWER UNIT(F&I) (NEW POLE)	1.00	EA	\$1,800.00	\$1,800.00
745-70-12	TMS INDUCTIVE LOOP ASM(F&I)(2 LOOPS/LN)	4.00	AS	\$834.78	\$3,339.12
746-71-221	TMS CAB(F&I,TYP IV,POLE MNT,1 BACKPLANE)	1.00	EA	\$2,250.00	\$2,250.00
747-70-11	TMS MODEM (F&I)	1.00	EA	\$585.00	\$585.00

Traffic Monitoring 2

Description	Value
Lanes	4
Multiplier	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
555-1-1	DIRECTIONAL BORE (> THAN 6")	40.00	LF	\$15.50	\$620.00
630-1-12	CONDUIT (F&I) (UNDERGROUND)	150.00	LF	\$4.56	\$684.00
635-1-11	PULL & JUNC BOX (F&I) (PULL BOX)	3.00	EA	\$215.97	\$647.91
743-70-11	TMS VEH S/CLS. UNIT(F&I) (ELECTRON. CBL)	1.00	AS	\$4,974.07	\$4,974.07
744-70-11	TMS SOLAR POWER UNIT(F&I) (NEW POLE)	1.00	EA	\$1,800.00	\$1,800.00
745-70-12	TMS INDUCTIVE LOOP ASM(F&I)(2 LOOPS/LN)	4.00	AS	\$834.78	\$3,339.12
746-71-221	TMS CAB(F&I,TYP IV,POLE MNT,1 BACKPLANE)	1.00	EA	\$2,250.00	\$2,250.00
747-70-11	TMS MODEM (F&I)	1.00	EA	\$585.00	\$585.00

Signalizations Component Total \$153,779.74

BRIDGES COMPONENT

Bridge 3

Description	Value
Length	300.00
Width	90.00
Type	Overpass Bridge
Substructure Type	PreCast
Superstructure Type	Steel Box AASHTO Girder
Cost Factor	1.00
Removal of existing structures area	0.00
Default Cost per SF	\$65.00
Factored Cost per SF	\$65.00

Final Cost per SF \$68.61
 Basic Bridge Cost \$1,755,000.00
 Description CAUSEWAY BLVD. OVER CSX RAILROAD

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-10	CONC CLASS II (APPROACH SLABS)	200.00	CY	\$400.00	\$80,000.00
415-1-9	REINF STEEL (APPROACH SLABS)	35,000.00	LB	\$0.50	\$17,500.00
Bridge 3 Total					\$1,852,500.00
Bridges Component Total					\$1,852,500.00

RETAINING WALLS COMPONENT

Retainig Wall 1

Description	Value
Length	1,800.00
Begin height	30.00
End Height	30.00
Multiplier	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RETAINING WALL (PERMANENT)	54,000.00	SF	\$39.00	\$2,106,000.00

Retainig Wall 2

Description	Value
Length	1,800.00
Begin height	30.00
End Height	30.00
Multiplier	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RETAINING WALL (PERMANENT)	54,000.00	SF	\$39.00	\$2,106,000.00

Retaining Walls Component Total \$4,212,000.00

Sequence 2 Total \$17,040,144.66

Date: 9/29/2004 3:58:47 PM

FDOT Long Range Estimating System

R3: Project Details by Sequence Report

Project: 255599-1-52-02

Letting Date: 09/2007

Description: U.S. 41 - Causeway Blvd. Intersection

District: 07

County: 10 HILLSBOROUGH

Market Area: 08

Units: English

Contract Class: Lump Sum Project: N

Design/Build: N

Project Length: 2.000 MI

Project Manager: Linda Crescentini

Version 1-P Project Grand Total

\$52,049,823.02

Description: U.S. 41 - Causeway Blvd. Intersection

Project Sequences Subtotal

\$42,892,415.72

102-1 Maintenance of Traffic

10.00 %

\$4,289,241.57

101-1 Mobilization

10.00 %

\$4,718,165.73

Project Sequences Total

\$51,899,823.02

Scope Creep

0.00 %

\$0.00

Non-Bid Components:

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY (DO NOT BID)		LS	\$150,000.00	\$150,000.00

Project Non-Bid Subtotal

\$150,000.00

Version 1-P Project Grand Total

\$52,049,823.02

Date: 9/29/2004 3:59:22 PM

FDOT Long Range Estimating System

R4: Project Details Composite Report

Project: 255599-1-52-02

Letting Date: 09/2007

Description: U.S. 41 - Causeway Blvd. Intersection

District: 07 County: 10 HILLSBOROUGH

Project Manager: Linda Crescentini

Version 1-P Project Grand Total

\$52,049,823.02

Description: U.S. 41 - Causeway Blvd. Intersection

EARTHWORK COMPONENT

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
110-1-1	CLEARING & GRUBBING	70.66 AC	\$7,115.26	\$502,764.27
120-6	EMBANKMENT	892,351.28 CY	\$15.63	\$13,947,450.51
Earthwork Component Total				\$14,450,214.77

ROADWAY COMPONENT

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
160-4	STABILIZATION TYPE B	116,202.24 SY	\$7.90	\$917,997.70
285-709	BASE OPTIONAL (BASE GROUP 09)	103,488.00 SY	\$9.64	\$997,624.32
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	15,523.20 TN	\$55.70	\$864,642.24
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	8,279.04 TN	\$82.08	\$679,543.61
339-1	ASPHALT PAVEMENT MISCELLANEOUS	204.00 TN	\$113.98	\$23,251.92
536-1-1	GUARDRAIL (ROADWAY)	6,000.00 LF	\$11.06	\$66,360.00
536-82	GUARDRAIL END ANCH (CONC BARRIER WALL)	12.00 EA	\$1,200.00	\$14,400.00
544-75-14	IMPACT ATTENUATOR VEHICULAR (QUADGURD)	12.00 EA	\$21,947.50	\$263,370.00
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	1,080.00 EA	\$4.75	\$5,130.00
710-21	TRAFFIC STRIPE SKIP (WHITE/BLACK)	6.00 GM	\$361.06	\$2,166.36
710-23-61	TRAFFIC STRIPE SOLID (WHITE/BLACK) (6")	8.00 NM	\$663.47	\$5,307.76
711-31	TRAFFIC STRIPE SKIP (THERMO) (WH)	6.00 GM	\$7,825.72	\$46,954.32
711-37-61	TRAF STRIPE SOLID (THERMO) (WH)(6")	8.00 NM	\$2,322.15	\$18,577.20

Roadway Component Total

\$3,905,325.42

SHOULDER COMPONENT

Pay Items				
Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
520-1-10	CURB & GUTTER CONC (TYPE F)	21,120.00 LF	\$22.16	\$468,019.20
522-1	SIDEWALK CONCRETE (4" THICK)	11,733.34 SY	\$27.56	\$323,370.86
575-1	SODDING	11,733.34 SY	\$1.55	\$18,186.68
Shoulder Component Total				\$809,576.74

MEDIAN COMPONENT

Pay Items				
Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
520-1-7	CURB & GUTTER CONC (TYPE E)	21,120.00 LF	\$18.00	\$380,160.00
575-1	SODDING	6,265.60 SY	\$1.55	\$9,711.68
Median Component Total				\$389,871.68

DRAINAGE COMPONENT

Pay Items				
Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
110-1-1	CLEARING & GRUBBING	5.00 AC	\$7,115.26	\$35,576.30
120-1	EXCAVATION REGULAR	40,333.35 CY	\$10.86	\$438,020.20
400-2-2	CONC CLASS II (ENDWALLS)	126.00 CY	\$2,312.76	\$291,407.76
425-1-351	INLETS (CURB) (TYPE P-5) (<10')	72.00 EA	\$3,284.26	\$236,466.72
425-1-451	INLETS (CURB) (TYPE J-5) (<10')	20.00 EA	\$4,000.00	\$80,000.00
425-1-521	INLETS (DT BOT) (TYPE C) (<10')	10.00 EA	\$1,679.18	\$16,791.80
425-1-541	INLETS (DT BOT) (TYPE D) (<10')	5.00 EA	\$2,550.00	\$12,750.00
425-2-41	MANHOLES (P-7) (<10')	10.00 EA	\$2,787.50	\$27,875.00
425-2-71	MANHOLES (J-7) (<10')	5.00 EA	\$3,887.50	\$19,437.50
430-171-125	PIPE CULV(OPT MATL)(ROUND) (18"SS)	5,292.00 LF	\$39.27	\$207,816.84
430-171-140	PIPE CULV(OPT MATL)(ROUND) (42"SS)	250.00 LF	\$73.00	\$18,250.00
430-171-141	PIPE CULV(OPT MATL)(ROUND) (48"SS)	10,000.00 LF	\$87.67	\$876,700.00
430-171-142	PIPE CULV(OPT MATL)(ROUND) (54"SS)	1,000.00 LF	\$105.67	\$105,670.00
430-172-138	PIPE CULV(OPT MATL)(ROUND) (36"CD)	472.00 LF	\$93.33	\$44,051.76
550-2	FENCING TYPE B	4,200.00 LF	\$6.48	\$27,216.00
550-3-2	FENCE CORNER POST (TYPE B)	30.00 EA	\$98.96	\$2,968.80
550-79-20	FENCE GATE (SLIDING)	5.00 EA	\$1,527.87	\$7,639.35

575-1	(CANTILEVER 20') SODDING	24,808.00 SY	\$1.55	\$38,452.40
Drainage Component Total				\$2,487,090.43

INTERSECTIONS COMPONENT

Pay Items Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
110-1-1	CLEARING & GRUBBING	9.06 AC	\$7,115.26	\$64,464.26
120-1	EXCAVATION REGULAR	5,069.99 CY	\$10.86	\$55,060.09
160-4	STABILIZATION TYPE B	15,660.56 SY	\$7.90	\$123,718.43
285-709	BASE OPTIONAL (BASE GROUP 09)	15,660.56 SY	\$9.64	\$150,967.80
334-1-13	SUPERPAVE ASPH CONC (TRAFFIC C)	2,349.06 TN	\$55.70	\$130,842.66
337-7-6	ASPH CONC FC(INC BIT/RUB) FC12.5(FC-6)	1,252.84 TN	\$82.08	\$102,833.10
520-1-7	CURB & GUTTER CONC (TYPE E)	811.36 LF	\$18.00	\$14,604.48
520-1-10	CURB & GUTTER CONC (TYPE F)	3,528.00 LF	\$22.16	\$78,180.48
520-5-11	TRAF SEP CONC (TYPE I) (4' WIDE)	1,640.00 LF	\$34.88	\$57,203.20
522-1	SIDEWALK CONCRETE (4" THICK)	1,960.00 SY	\$27.56	\$54,017.60
522-2	SIDEWALK CONCRETE (6" THICK)	695.56 SY	\$30.60	\$21,284.12
575-1	SODDING	1,960.00 SY	\$1.55	\$3,038.00
Intersections Component Total				\$856,214.22

SIGNING COMPONENT

Pay Items Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
700-40-1	SIGN SINGLE POST (LESS THAN 12)	48.00 AS	\$234.46	\$11,254.08
700-40-2	SIGN SINGLE POST (12 - 25)	4.00 AS	\$632.52	\$2,530.08
700-41-10	SIGN MULTI POST (50 OR LESS)	4.00 AS	\$2,580.73	\$10,322.92
700-41-11	SIGN MULTI-POST (51-100)	4.00 AS	\$3,128.67	\$12,514.68
700-44-066	SGN LT'D OH TR (T 101-120, S 501-600)	2.00 AS	\$76,954.91	\$153,909.82
700-45-32	SGN LT'D OH CTLVR(C 31-40, S 51-100)	4.00 AS	\$25,000.00	\$100,000.00
700-83	SIGN OVHD (BRIDGE MOUNTED)	4.00 AS	\$5,622.17	\$22,488.68
Signing Component Total				\$313,020.26

LIGHTING COMPONENT

Pay Items Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit	Total Amount
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			Price	
715-1-113	CONDUCTORS (F&I)(INSULATED) (NO 6)	38,568.00 LF	\$1.40	\$53,995.20
715-2-115	CONDUIT UNDERGROUND, SCH 40	10,560.00 LF	\$4.03	\$42,556.80
715-2-215	CONDUIT UNDERPAVEMENT SCH 40	2,096.00 LF	\$16.19	\$33,934.24
715-14-11	PULL BOX (F&I) (ROADSIDE)	70.00 EA	\$211.75	\$14,822.50
715-500-1	POLE CABLE DIST SYS (CONVENTIONAL)	70.00 EA	\$1,025.00	\$71,750.00
715-511-140	LIGHT POLE COMPLETE (40 FT)	70.00 EA	\$1,741.68	\$121,917.60
Lighting Component Total				\$338,976.34

SIGNALIZATIONS COMPONENT

Pay Items				
Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
555-1-1	DIRECTIONAL BORE (> THAN 6")	80.00 LF	\$15.50	\$1,240.00
630-1-12	CONDUIT (F&I) (UNDERGROUND)	1,050.00 LF	\$4.56	\$4,788.00
630-1-14	CONDUIT (F&I) (UG - JACKED)	250.00 LF	\$12.65	\$3,162.50
632-7-1	CABLE (SIGNAL) (F&I)	1.00 PI	\$2,058.97	\$2,058.97
635-1-11	PULL & JUNC BOX (F&I) (PULL BOX)	22.00 EA	\$215.97	\$4,751.34
639-1-22	ELECTRIC POWER SVC (UNDERGROUND)	1.00 AS	\$486.67	\$486.67
639-2-1	ELECTRICAL SERVICE WIRE	60.00 LF	\$1.19	\$71.40
649-415-003	M/ARM(F&I/HL)(1ST(B5)2ND(0) POLE(Q3)	4.00 EA	\$17,000.00	\$68,000.00
650-51-311	SIGNAL TRAFFIC(F&I)(3 SECT 1 WAY)(STD)	12.00 AS	\$589.00	\$7,068.00
653-111	SIGNAL PEDESTRIAN (12" INCANDESCENT)	8.00 AS	\$353.33	\$2,826.64
659-101	SIGNAL HEAD AUX (BACK PLT 3 SECT)	8.00 EA	\$82.10	\$656.80
659-109	SGNL HEAD AUX (CONC PED TYPE II)	1.00 EA	\$521.82	\$521.82
660-1-102	LOOP DETECT INDUC (TYPE 2) (F&I)	14.00 EA	\$197.18	\$2,760.52
660-2-106	LOOP ASSEMBLY (F&I) (TYPE F)	14.00 AS	\$732.25	\$10,251.50
665-11	DET PED(F&I)(DET STA POLE OR CAB MTD)	8.00 EA	\$114.90	\$919.20
670-5-111	CNTL ASSEM ACT SS F&I NEMA PRE(ONE)	1.00 AS	\$14,000.00	\$14,000.00
700-48-19	SIGN PANEL (F & I) (16 - 100)	4.00 EA	\$1,080.00	\$4,320.00
743-70-11	TMS VEH S/CLS. UNIT(F&I) (ELECTRON. CBL)	2.00 AS	\$4,974.07	\$9,948.14
744-70-11	TMS SOLAR POWER UNIT(F&I) (NEW POLE)	2.00 EA	\$1,800.00	\$3,600.00
745-70-12	TMS INDUCTIVE LOOP ASM(F&I) (2 LOOPS/LN)	8.00 AS	\$834.78	\$6,678.24
746-71-221	TMS CAB(F&I,TYP IV,POLE MNT,1 BACKPLANE)	2.00 EA	\$2,250.00	\$4,500.00
747-70-11	TMS MODEM (F&I)	2.00 EA	\$585.00	\$1,170.00

Signalizations Component Total

\$153,779.74

BRIDGES COMPONENT

Bridge Type: Overpass Bridge

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
400-2-10	CONC CLASS II (APPROACH SLABS)	751.11 CY	\$400.00	\$300,444.00
415-1-9	REINF STEEL (APPROACH SLABS)	131,444.25 LB	\$0.50	\$65,722.13

Bridge No. 1 Type=OPB Length=324 LF Width=128 LF
 Bridge Basic Cost based on Factored Cost \$65.00 SF \$2,695,680.00
 Bridge Final Cost Per SF \$68.34

Bridge No. 2 Type=OPB Length=260 LF Width=120 LF
 Bridge Basic Cost based on Factored Cost \$65.00 SF \$2,028,000.00
 Bridge Final Cost Per SF \$69.17

Bridge No. 3 Type=OPB Length=300 LF Width=90 LF
 Bridge Basic Cost based on Factored Cost \$65.00 SF \$1,755,000.00
 Bridge Final Cost Per SF \$68.61

Bridges Component Total

\$6,844,846.12

RETAINING WALLS COMPONENT**Pay Items**

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
548-12	RETAINING WALL (PERMANENT)	316,500.00 SF	\$39.00	\$12,343,500.00

Retaining Walls Component Total

\$12,343,500.00

Date: 9/29/2004 3:59:22 PM

FDOT Long Range Estimating System

R4: Project Details Composite Report

Project: 255599-1-52-02

Letting Date: 09/2007

Description: U.S. 41 - Causeway Blvd. Intersection

District: 07 County: 10 HILLSBOROUGH

Project Manager: Linda Crescentini

Version 1-P Project Grand Total \$52,049,823.02

Description: U.S. 41 - Causeway Blvd. Intersection

Project Sequences Subtotal \$42,892,415.72

102-1	MAINTENANCE OF TRAFFIC	10.00 %	\$4,289,241.57
101-1	MOBILIZATION	10.00 %	\$4,718,165.73

Project Sequences Total \$51,899,823.02Scope Creep 0.00 % \$0.00**Non-Bid Components:**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY (DO NOT BID)	1.00	LS	\$150,000.00	\$150,000.00

Project Non-Bid Subtotal \$150,000.00Version 1-P Project Grand Total \$52,049,823.02