

DANNENBAUM ENGINEERING CORPORATION
LAREDO OFFICE:
8610 McPHERSON, SUITE 130 LAREDO, TEXAS 78040 (956)712-9817

March 9, 2016

Webb County Engineering Dept.
1620 Santa Ursula, 2nd Floor
Laredo, Texas 78040

Attn: Luis Perez-Garcia, P.E.
Webb County Engineer

Ref: Webb County Loop 20 Stimulus Project – IH 35 Plan Set Modifications

Sub: Revised - Supplement Work Authorization No. 10 to Work Authorization No.1

Dear Mr. Perez-Garcia,

Enclose please find **Revised** documentation for Supplemental Work Authorization (SWA) No. 10 to Work Authorization No. 1 for the Loop 20 Project. There are two (2) partially executed Supplementals contained with this letter

This Supplemental Work Authorization (SWA) NO. 10 is in regards to the following additional services.

1. Provide Additional Field Survey of IH 35 & LP 20 intersection and survey for drainage modification between EBFR and the ROW (FC 150)
2. Modify IH 35 Package 1 (CSJ: 0086-14-065) PS&E drawings (Function Codes: 130,160,161,162,163, 164 & 170) as required due to:
 - Re-Survey of IH 35 & LP 20 Intersection
 - Additional ITS items (Bridge) added by TxDOT (Camera and Foundation).
 - Drainage modifications between EBFR and the ROW
3. Modify Earthwork and Cross Sections due to existing embankment being relocated to outside the Project (FC 160)

The revised total for Supplemental No. 10 to WA No. 1 is \$115,665.62, which includes \$79,537.86 due to modifications shown above, \$34,860.76 for additional survey and \$1,267.00 in direct expenses.

Should you have any questions or require further information this letter or any of the enclosures being transmitted herewith please feel free to contact me at (956) 682-3677.

Sincerely,



Louis H. Jones, Jr., P.E.
Project Manager / Principal

Enclosure(s)

- Exhibit C-10 – Project Schedule (2 each)
- Exhibit D-2 – Contract for Engineering Services (2 each)
- Exhibit D-10 – Fee Estimates (2 each)

cc: Dannenbaum File No. 4571-01
 Ms. Ana Duncan Laredo District TP&P – TxDOT
 Mr. Richard D. Seitz, P.E. Dannenbaum Engineering Company – Laredo, LLC
 Mr. Eric Davila, P.E. Dannenbaum Engineering Company – Laredo, LLC
 Mr. Nathaniel Olivarez, P.E. Dannenbaum Engineering Company – Laredo, LLC
 Mr. Gustavo Lopez, P.E. Dannenbaum Engineering Company – Laredo, LLC
 Mr. Anthony Garza Dannenbaum Engineering Company – Laredo, LLC

**ATTACHMENT D-2
 SUPPLEMENTAL WORK AUTHORIZATION NO. 10
 TO WORK AUTHORIZATION NO. 1
 CONTRACT FOR ENGINEERING SERVICES**

THIS SUPPLEMENTAL WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 5 of Contract No. Loop 20 hereinafter identified as the "Contract," entered into by and between the County of Webb (County), and Dannenbaum Engineering Corporation (the Engineer).

The following terms and conditions of Work Authorization No. 1 are hereby amended as follows:

PART I. The Engineer will perform the following additional services (in conformance to previous Supplemental WA No. 9, Exhibit B-9 – Services to be provided by the Engineer):

- 1. Provide Additional Field Survey of IH 35 & LP 20 intersection and drainage modifications between EBFR and the ROW (FC 150)**
- 2. Modify IH 35 Package 1 (CSJ: 0086-14-065) PS&E drawings (Function Codes: 130,160,161,162,163, 164 & 170) as required due to:**
 - **Re-Survey of IH 35 & LP 20 Intersection**
 - **Additional ITS items (Bridge) added by TxDOT (Camera and Foundation).**
 - **Drainage modifications between EBFR and the ROW**
- 3. Modify Earthwork and Cross Sections due to existing embankment being relocated to outside the Project (FC 160)**

PART II. The maximum amount payable under this Work Authorization is increased to **\$3,587,750.02** and the method of payment is **Lump Sum** as set forth in Attachment E of the Contract. This amount is based upon fees set forth in Attachment E, Fee Schedule, of the Main Contract and the Engineer's estimated Work Authorization costs included in Exhibit D-9, Fee Schedule, which is attached and made a part of this Work Authorization.

Original Work Authorization No. 1 Amount	=	\$	3,071,126.22	
Supplemental Work Authorization No. 1 Amount	=	\$	<53,596.01>	\$ 3,017,530.21
Supplemental Work Authorization No. 2 Amount	=	\$	0.00	\$ 3,017,530.21
Supplemental Work Authorization No. 3 Amount	=	\$	63,123.10	\$ 3,080,653.31
Supplemental Work Authorization No. 4 Amount	=	\$	79,281.79	\$ 3,159,935.10
Supplemental Work Authorization No. 5 Amount	=	\$	26,517.83	\$ 3,186,452.93
Supplemental Work Authorization No. 6 Amount	=	\$	0.00	\$ 3,186,452.93
Supplemental Work Authorization No. 7 Amount	=	\$	118,730.31	\$ 3,305,183.24
Supplemental Work Authorization No. 8 Amount	=	\$	56,541.06	\$ 3,361,724.30
Supplemental Work Authorization No. 9 Amount	=	\$	110,360.10	\$ 3,472,084.40
Supplemental Work Authorization No. 10 Amount	=	\$	<u>115,665.62</u>	<u>\$ 3,587,750.02</u>

This Supplemental Work Authorization shall become effective on the date of final execution of the parties hereto. All other terms and conditions of Work Authorization No. 1 and Supplemental Work Authorization Nos. 1 thru 9 not hereby amended are to remain in full force and effect.

**ATTACHMENT D-2
SUPPLEMENTAL WORK AUTHORIZATION NO. 10
TO WORK AUTHORIZATION NO. 1
CONTRACT FOR ENGINEERING SERVICES**

IN WITNESS WHEREOF, this Supplemental Work Authorization is executed in duplicate counterparts and hereby accepted and acknowledged below.

THE ENGINEER:

THE COUNTY



(Signature)

(Signature)

Louis H. Jones, P.E.

(Printed Name)

(Printed Name)

Principal

(Title)

(Title)

02/26/14

(Date)

(Date)

LIST OF EXHIBITS

- | | |
|--------------|---|
| Exhibit C-10 | Work Schedule for Supplemental No. 10 to Work Authorization No.1 |
| Exhibit D-10 | Fee Estimates for Supplemental No. 10 to Work Authorization No. 1 |

**EXHIBIT D-10
FEE SCHEDULE
FOR ADDITIONAL SERVICES FOR
SUPPLEMENTAL NO. 10
WORK AUTHORIZATION NO. 1**

DANNENBAUM ENGINEERING CORPORATION
WEBB COUNTY LOOP 20 STIMULUS PROJECT
SUPPLEMENTAL WORK AUTHORIZATION NO. 10 (SWA #10) TO WORK AUTHORIZATION NO. 1 (WA #1)
CONSISTING OF: (A) MODIFY IH 35 PLAN SET DUE TO RESURVEY
DANNENBAUM ENGINEERING CORPORATION
FEE SUMMARY

DESCRIPTION	Principal	PM	Senior Engineer-Civil	Senior Engineer-Bridge	Engineer	Senior Designer	CADD Operator/Tech	Clerical	Total Labor Hrs.	Remarks	Cost Per Task
BASIC SERVICES											
FC 164 - PROJECT MANAGEMENT (FC 160 TO FC 190)											
PROJECT MANAGEMENT			2		2				4		\$ 573.30
COORDINATION/PREPARE SUB CONTRACTS/MANAGE SUBCONSULTANTS			1		2				3		\$ 418.74
PREPARATION OF INVOICES AND PROGRESS REPORTS		1			3			3	7		\$ 801.23
MONITOR SUB-PROVIDER'S SCHEDULES ON MONTHLY BASIS		1			1			3	6		\$ 691.61
PREPARE & ASSEMBLE PRELIMINARY COST ESTIMATE		1			8				9		\$ 1,266.92
ORGANIZE AND DOWNLOAD ELECTRONIC FILE DELIVERABLES			3	3					6		\$ 973.74
SUB-TOTAL - FC 164 - PROJECT MANAGEMENT (FC 160 TO FC 190)	0	3	7	3	16	0	0	6	35		\$ 4,725.54
GENERAL											
SUMMARY OF REMOVAL					2				6		\$ 598.02
SUMMARY OF ROADWAY					2				6		\$ 598.02
SUMMARY OF EARTHWORK					2				6		\$ 598.02
SUMMARY OF RETAINING WALLS					2				6		\$ 598.02
SUMMARY OF DRAINAGE					2				6		\$ 598.02
SUMMARY OF BRIDGE				1	2				7		\$ 768.04
SUMMARY OF ILLUMINATION					2				6		\$ 598.02
SUMMARY OF SIGNING AND PYMT MRKGS					2				6		\$ 598.02
SUMMARY OF SW3P					2				6		\$ 598.02
SUB-TOTAL SHEETS - GENERAL	0	0	0	1	18	0	36	0	55		\$ 5,552.20
FC 163 - TRAFFIC CONTROL PLAN					12	25	31		76		\$ 8,075.07
UPDATE LP20& IH35 TRAFFIC CONTROL LAYOUTS DUE TO RESURVEY			8		12	25	31	0	76		\$ 8,075.07
SUB-TOTAL SHEETS - FC 163 - TRAFFIC CONTROL PLAN	0	0	8	0	12	25	31	0	76		\$ 8,075.07
FC 160 - ROADWAY DETAILS											
UPDATE LP20& IH35 REMOVAL LAYOUTS DUE TO RESURVEY					4	9	12		25		\$ 2,489.73
UPDATE LP20& IH35 MAINLANE PLAN AND PROFILE DUE TO RESURVEY					4	9	12		25		\$ 2,489.73
UPDATE LP20& IH35 INTERSECTION LAYOUT DUE TO RESURVEY					4	12	12		28		\$ 2,909.68
SUB-TOTAL SHEETS - FC 160 - ROADWAY DETAILS	0	0	0	0	12	30	36	0	78		\$ 7,789.14
FC 161 - DRAINAGE DETAILS											
ADDITION OF PROPOSED RIP RAP AREAS					4	8	16		28		\$ 2,716.92
UPDATE LP20& IH35 DRAINAGE DETAILS DUE TO RESURVEY					1	8	16		25		\$ 2,520.85
SUB-TOTAL SHEETS - FC 161 - DRAINAGE DETAILS	0	0	0	0	5	16	32	0	53		\$ 5,037.57
FC 130 - UTILITY											
UPDATE LP20& IH35 EXISTING UTILITY LAYOUTS DUE TO RESURVEY					4	8	16		28		\$ 2,716.92
SUB-TOTAL SHEETS - FC 130 - UTILITY	0	0	0	0	4	8	16	0	28		\$ 2,716.92
FC 170 - BRIDGES											
UPDATE LP20& IH 35 INTERSECTION PROPOSED WBML DUE TO RESURVEY				3	4	4	8		19		\$ 2,132.70
UPDATE LP20& IH 35 INTERSECTION PROPOSED EBML DUE TO RESURVEY				3	4	4	8		19		\$ 2,132.70
UPDATE LP20 PROPOSED WBML BRIDGE LAYOUT DUE TO EMBANKMENT MOVED				3	4	4	8		19		\$ 2,132.70
UPDATE LP20 PROPOSED EBML BRIDGE LAYOUT DUE TO EMBANKMENT MOVED				3	4	4	8		19		\$ 2,132.70
SIZE COLUMNS & FOUNDATIONS FOR ITS CAMERAS (4 CAMERAS)				48	72	32	40		192		\$ 24,422.64
SUB-TOTAL SHEETS - FC 170 - BRIDGES	0	0	0	60	88	48	72	0	268		\$ 32,953.44
FC 162 - ILLUMINATION SHEETS											
UPDATE LP20& IH 35 INTERSECTION PROPOSED ILLUMINATION DUE TO RESURVEY					4	4	8		16		\$ 1,622.64
SUB-TOTAL SHEETS - FC 162 - ILLUMINATION SHEETS	0	0	0	0	4	4	8	0	16		\$ 1,622.64
FC 162 - SIGNS, PYMT MRKGS & DELINEATION											
UPDATE LP20& IH 35 INTERSECTION PROPOSED SIGNS, PYMT MRKGS DUE TO RESURVEY					4	6	12		22		\$ 2,169.78
SUB-TOTAL SHEETS - FC 162 - SIGNS, PYMT MRKGS & DELINEATION	0	0	0	0	4	6	12	0	22		\$ 2,169.78
FC 163 - SW3P LAYOUTS											
UPDATE LP20& IH 35 INTERSECTION SW3P DUE TO RESURVEY					4	8	8		20		\$ 2,049.24
SUB-TOTAL SHEETS - FC 163 - SW3P LAYOUTS	0	0	0	0	4	8	8	0	20		\$ 2,049.24
FC 160 - CROSS SECTIONS											
REVISE CROSS SECTIONS DUE TO RESURVEY OF LP20&IH35 INTERSECTION			2		4	6	12		30		\$ 3,423.16
REVISE CROSS SECTIONS DUE TO EMBANKMENT MOVED TO INTERNATIONAL			2		4	6	12		30		\$ 3,423.16
SUB-TOTAL SHEETS - FC 160 - CROSS SECTIONS	0	0	4	8	12	12	24	0	60		\$ 6,846.32
TOTAL HOURS - DANNENBAUM BASIC SERVICES	0	3	19	72	179	157	275	6	711		

DANNENBAUM ENGINEERING CORPORATION
WEBB COUNTY LOOP 20 STIMULUS PROJECT
SUPPLEMENTAL WORK AUTHORIZATION NO. 10 (SWA #10) TO WORK AUTHORIZATION NO. 1 (WA #1)
CONSISTING OF: (A) MODIFY IH 35 PLAN SET DUE TO RESURVEY
DANNENBAUM ENGINEERING CORPORATION
FEE SUMMARY

BASIC SERVICES DESCRIPTION	Principal	PM	Senior Engineer-Civil	Senior Engineer-Bridge	Engineer	Senior Designer	CADD Operator/Tech	Clerical	Total Labor Hrs.	Remarks	Cost Per Task
LABOR RATE PER HOUR	\$ 227.02	\$ 210.20	\$ 154.56	\$ 170.02	\$ 132.09	\$ 106.65	\$ 83.46	\$ 64.92			
DIRECT LABOR COSTS	\$ -	\$ 630.60	\$ 2,936.64	\$ 12,241.44	\$ 23,644.11	\$ 16,744.05	\$ 22,951.50	\$ 389.52	\$ 79,537.86	CHECK	
TOTAL COST	\$ -	\$ 630.60	\$ 2,936.64	\$ 12,241.44	\$ 23,644.11	\$ 16,744.05	\$ 22,951.50	\$ 389.52	\$ 79,537.86		\$ 79,537.86
PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEE)	0.00%	0.79%	3.69%	15.39%	29.73%	21.05%	28.86%	0.49%	100.00%		
PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)	0.00%	0.42%	2.67%	10.13%	25.18%	22.08%	38.66%	0.84%	100.00%		
DANNENBAUM (MODIFY PLANS - TOTAL ENGINEERING FEE)											\$ 79,537.86
DANNENBAUM (FIELD SURVEY OF IH 35 & LP 20 INTERSECTION - TOTAL SURVEYING FEE)											\$ 34,860.76
REPRO -30 SHEETS X \$5.00 / SHEET (MYLAR)X 6 SETS											\$ -
REPRO -30 SHEETS X \$1.00 / SHEET (CHECK PLOTS & REVIEW SETS) X 6 SETS											\$ 180.00
AIRFARE - \$188 X 2 PERSON X 10 MEETINGS											\$ -
CAR RENTAL - \$85 / TRIP X 4 TRIP											\$ 340.00
PER DIEM - \$100/NIGHT STAY X 2 PERSON X 1 NIGHT (\$75 hotel/\$25 meals)											\$ 100.00
DELIVERY SERVICES (OVERNIGHT EXPRESS) - \$25 / PACKAGE X 3 PACKAGES											\$ 75.00
MILEAGE 4 TRIP X 288 MI / TRIP @ \$0.50 per mile											\$ 572.00
DANNENBAUM (TOTAL - DIRECT EXPENSES FEE)											\$ 1,267.00
TOTAL ENGINEERING											\$ 115,665.62

EXHIBIT D-10
SWA#10 to WA#1

DANNENBAUM ENGINEERING CORPORATION
WEBB COUNTY LOOP 20 STIMULUS PROJECT
SUPPLEMENTAL WORK AUTHORIZATION NO. 10 (SWA #10) TO WORK AUTHORIZATION NO. 1 (WA #1)
CONSISTING OF: (B) FIELD SURVEY OF IH 35 & LP20 Intersection
DANNENBAUM ENGINEERING CORPORATION
FEE SUMMARY

BASIC SERVICES DESCRIPTION	Principal	PM	RPLS	SIT	Survey Crew (3-Man) w/GPS	CADD Operator/ Tech	Clerical	Total Labor Hrs.	Remarks	Cost Per Task
FC 150 - FIELD SURVEYING										
COORDINATION MEETING		4	7					11		\$ 1,539.92
ATTEND UTILITY MEETING		4	7					11		\$ 1,539.92
SURVEY LP 20 & IH 35 INTERSECTION			4	16	32			52		\$ 6,640.00
OBTAIN ELEVATIONS OF PROPOSED RIP RAP REQUESTED BY TXDOT			2	8	16			26		\$ 3,320.00
OBTAIN ELEVATIONS OF EXISTING UTILITIES			2	4	16			22		\$ 2,940.00
OBTAIN ELEVATIONS OF EXISTING DRAINAGE FACILITIES			2	4	16			22		\$ 2,940.00
PRODUCE UPDATED DTM, TIN, POINT TILE			7	16		16		39		\$ 3,704.64
PRODUCE UPDATED SURVEY DELIVERABLES		2	7	7		14		30		\$ 3,031.52
PREPARE UPDATED SURVEY DELIVERABLES			7	14		14		35		\$ 3,346.56
STAKEOUT PROPOSED COLUMN & FOUNDATIONS			4	4	14	7		29		\$ 3,478.28
SURVEY QA/QC		4	14					18		\$ 2,379.92
SUB-TOTAL SHEETS - FC 150 - FIELD SURVEYING	0	14	63	73	94	51	0	295		\$ 34,860.76
TOTAL SHEETS - DANNENBAUM BASIC SERVICES	0	14	63	73	94	51	0	295		
TOTAL HOURS - DANNENBAUM BASIC SERVICES	\$ 199.97	\$ 174.98	\$ 120.00	\$ 95.00	\$ 145.00	\$ 84.04	\$ 47.22			
LABOR RATE PER HOUR	\$ -	\$ 2,449.72	\$ 7,560.00	\$ 6,935.00	\$ 13,630.00	\$ 4,286.04	\$ -		CHECK	
DIRECT LABOR COSTS	\$ -	\$ 2,449.72	\$ 7,560.00	\$ 6,935.00	\$ 13,630.00	\$ 4,286.04	\$ -	\$ 34,860.76		
TOTAL COST	\$ -	\$ 2,449.72	\$ 7,560.00	\$ 6,935.00	\$ 13,630.00	\$ 4,286.04	\$ -	\$ 34,860.76		
PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEE)	0.00%	7.03%	21.69%	19.89%	39.10%	12.29%	0.00%	100.00%		
PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)	0.00%	4.75%	21.36%	24.75%	31.86%	17.29%	0.00%	100.00%		
DANNENBAUM (TOTAL ENGINEERING PHASE - BASIC SERVICES FEE)										\$ 34,860.76
TOTAL ENGINEERING										\$ 34,860.76

**EXHIBIT C-10
WORK SCHEDULE
FOR ADDITIONAL SERVICES FOR
SUPPLEMENTAL WORK AUTHORIZATION NO. 10
TO WORK AUTHORIZATION NO. 1**

EXHIBIT C - 10
 SWA NO. 10 to WA NO 1 WORK SCHEDULE
 WEBB COUNTY, TX - LOOP 20 STIMULUS PROJECT
 SUPPLEMENTAL WORK AUTHORIZATION #10 TO WORK AUTHORIZATION #1
 Schematic, Environmental, ROW, and Topo Special Services and the Development of Three (3) PS&E Packages

Prepared 26 March 2013				2011							2012							2013							2014							2015							2016							2017							2018																																																																						
Start Date	End Date	Duration		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
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	1-Oct-13	31-Dec-18	63 mo																																																																																																																								

- (CSJ: 0086-14-065) PS&E - Design Package No. 1 (No ROW Required)**
 From beginning of Project from west end to just past entrance and exit ramps west of McPherson (From STA 421+90 to approx STA 492+00. (Includes IH 35 Bridges, approx 2885 LF) (Project length = 7,010 LF) (Roadway length = 4,125 LF)
- (CSJ: 0086-14-057) PS&E - Design Package No. 2 (No ROW Required)**
 From just past entrance and exit ramps west of McPherson to just past entrance and exit ramps, east of International Boulevard (From STA 422+00 to approx STA 554+00) (Includes McPherson and International Blvd. bridges, approx 600 LF) (Project length = 6,200 LF) (Roadway length = 5,600 LF)
- (CSJ: 0086-14-066) PS&E - Design Package No. 2A (No ROW Required)**
 From just past entrance and exit ramps west of McPherson to just past entrance and exit ramps, east of International Boulevard (From STA 422+00 to approx STA 554+00) (Includes McPherson and International Blvd. bridges, approx 600 LF) (Project length = 6,200 LF) (Roadway length = 5,600 LF)
- PS&E - Design Package No. 3 (ROW Required)**
 From just past entrance and exit ramps east of International Boulevard to end of Project, connecting to existing raised median section, 3000 LF East of Havana Road (Project does not include the development of PS&E for Havana Bridge Overpass) (From STA 554+00 to STA 573+54.80 BK = STA 445+00.12 FWD / Equation Station) (Roadway length = 4,455 LF)