# Dannenbaum Engineering Corporation

For
Reuthinger Extension of the
Hachar Reuthinger Road
(TxDOT CSJ 0922-33-166)
Webb County, Texas

January 9, 2017

DANNENBAUM

#### ATTACHMENT D WORK AUTHORIZATION

#### D-1

#### WORK AUTHORIZATION NO. <u>1</u> CONTRACT FOR ENGINEERING SERVICES

THIS WORK AUTH	IOR	<b>IZATION</b>	is made	pursu	ıant	to the	e terms ar	nd co	nditions	of A	Article 5	of Engine	ering	Contract No.
				into	by	and	between	the	County	of	Webb	(County),	and	Dannenbaum
<b>Engineering Corporati</b>	on (tl	ne Enginee	r).											

**PART I.** The Engineer will perform engineering services generally described as preliminary engineering, including the preparation of schematics, environmental documents and right of way parcel maps, to support a roadway project for the Reuthinger Extension of the Hachar Reuthinger Road project from 0.1 miles east of Beltway Parkway (northern ND Hachar tract limit – southern Reuthinger tract limit) to the west I-35 frontage road (TxDOT CSJ: 0922-33-166) situated in Webb County, Texas in accordance with the project description attached hereto and made a part of this Work Authorization. The responsibilities of the County and the Engineer as well as the work schedule are further detailed in exhibits A, B and C which are attached hereto and made a part of the Work Authorization.

**PART III.** Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with Articles 3 thru 5 of the contract, and Attachment A, Article 1 of this contract.

PART V. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

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

THE ENGINEER			THE COUNTY
Jehr			-
(Signature)			(Signature)
Louis H. Jones, P.E.		Tanc	E. Tijerina
(Printed Name)			(Printed Name)
Principal		Web	b County Judge
(Title)			(Title)
(Date)			(Date)
LIST OF EXHIBITS			
Exhibit A	Services to be pr	ovided by the	e County
Exhibit B	Services to be pr	ovided by the	e Engineer
Exhibit C	Work Schedule		
Exhibit D	Detailed Fee Sch	edule/Budge	t
Exhibit H-2	Subprovider Mon	nitoring Syste	em Commitment Agreement

### Fee Schedule

CSJ: 0922-33-166

#### DETAILED FEE SCHEDULE

#### Hachar Roadway - Reuthinger Tract

#### PHASE I - ADVANCED PROJECT DEVELOPMENT SERVICES

Provide Advanced Project Development Services, Develop Separate Schematic, Environmental Assessment, Public Involvement, Drainage Studies, Culvert Sizing for Reuthinger Section of Hachar Roadway

from Approximately 0.1 miles east of Beltway Parkway to I-35 west frontage road

#### **PHASE I SUMMARY**

				LIIA		20 IAIIAIVI	I								
PHASE I - ADVANCED PROJECT DEVELOPM	ENT SERVICE	S SUI	MMARY BY FUNC	TION COI	DES									\$299,9	981.17
		PR	IME		DI	BE		DE	BE		DE	BE		NON	-DBE
Function Codes	III		n Engineering pration	Arredono		epeda&Brunz, _C		Blar	nton	Aerial	Data S	Services, Inc.	Gilp		gineering pany
	Hrs		Fee	Hrs		Fee	Hrs		Fee	Hrs		Fee	Hrs		Fee
FC 102 Feasibility Studies						4								$\perp$	
FC 110 Route and Design Studies	363	\$	38,241.86	0	\$	_								—	
FC 120 Social, Economic and Environmental Studies and Public Involvement	380	\$	47,299.08	825	\$	115,133.60	384	,	\$35,084.00						
FC 130 Right of Way Data													6	\$	838.11
FC 150 Field Surveying							2				\$	20,000.00	164	\$	22,331.43
FC 161 Drainage	144	\$	16,296.56												
Direct Expenses					\$	1,551.53			\$3,205.00						
Total	887	\$	101,837.50	825	\$	116,685.13	384	\$	38,289.00	0	\$	20,000.00	170	\$	23,169.54
												0.070/			7.700/
Percent Participation			33.95%			38.90%			12.76%			6.67%			7.72%
			% PA	ARTICIPAT		=									
	NON-DBE	\$	125,007.04	41.67%											
	DBE	\$	174,974.13	58.33%											
	TOTAL	\$	299,981.17	100.00%											

#### Exhibit D Fee Schedule for Engineering Svcs Supporting Lump Sum Calculations Hachar Lp - Ph I From Old Mines Rd to Beltway Parkway Phase A - Partial Adv Planning/Schem/Env Incl In El Pico 24 Inch Water Line

NO. OF DWGS	SHEET	SPECIAL SERVICES TASK DESCRIPTION	Principal/PM	Senior Engineer Civil	Senlor Engineer Bridge	Senlor Designer	CADD Operator/ Tech	Clerical	Total Labor Hrs.	Task Cost
		FC 110 - PRELIMINARY DESIGN								
		PROJECT MANAGEMENT/PUBLIC INVOLVEMENT - (included in base contract)							0	s -
		PROJECT LAYOUT/SCHEMATIC DESIGN (ULTIMATE 6 LN FREEWAY/ PH 1 - 5 LN)		24		40	160		224	s 23,028,00
		DEVELOP GEOPAK CROSS SECTIONS		4		36	16		1	\$ 6,076.08
		9 - EXISTING & PROP TYPICAL SECTIONS - (Included in base contract)							0	s -
		9 - PRELIMINARY ESTIMATE & QUANTITIES		1	4	12	24		41	\$ 4,409.74
		5 - PRELIMINARY SUMMARY OF ROADWAY QUANTITIES		4		12	16		32	\$ 3,516.72
		3 - PRELIMINARY SUMMARY OF CULVERT QUANTITIES		2		4	4		10	\$ 1,211.32
Ö	Sales Comments	SUB-TOTAL -FC 110 - PRELIMINARY DESIGN	0	35	4	104	220	a	363	\$ 28,241,86
		HOURS SUB-TOTALS	0	35	4	104	220	D	363	
	***************************************	LABOR RATE PER HOUR	\$ 327,93	\$ 225.50	\$ 225,50	\$ 106.64	\$ 83,44	\$ 64.89		
		DIRECT LABOR COSTS	5 -	5 7,892.50	\$ 902,00	\$ 11,090.56	\$ 18,356.80	5 -	\$ 38,241.86	
		TOTAL	s -	\$ 7,892.50	\$ 902,00	\$ 11,090.56	\$ 18,356.80	\$ -	\$ 38,241.86	
		PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEE)	0.00%	20.64%	2,36%	29.00%	48,00%	0.00%	100.00%	
of the party areas	the later of the later of	PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)	0.00%	9.64%	1.10%	28,65%	60.61%	0.00%	100.00%	
0		TOTAL SPECIAL SERVICES								
TOTAL D	MAINENDALIA		10	3.5	4	104	220	0	335	\$ 38,241.86 \$
TOTAL DA	ANNENBAUN	I DIRECT EXPENSES (FROM BELOW)								
		DIRECT EXPE	NSES							permanental de la constantina della constantina
PLOTS (B.	W ON BONE	) \$1.00/LINEAR FOOT (75 FT/PLOT x 5 PLOTS)								\$ -
PLOTS (C	OLOR ON B	OND) \$2.00/LINEAR FOOT (75 FT/PLOT x10 PLOTS)		No.						š -
COLOR G	RAPHICS OF	N FOAM BOARD (\$5.00/SF) (3'x6'x 10 Ea)	0.7750.000 HE RESERVED TO SERVED TO			No. 10		13711 31		s -
TOTAL DI	RECT EXPE	NSES		Alexander and						\$ -
		ANTE CONTROL OF THE CONTROL OF THE PROPERTY OF					ADDUMPTIONS			
		ASSUMPTIONS					ASSUMPTIONS			
1. Set 14	Aerial Target	S .	8. No Roadway Dr	ainage						
2. Roadwa	ay is designed	as Asphalt Road with open ditches, cross culverts only								

Fee Schedule for Engineering Svcs Supporting Lump Sum Calculations
Hachar Lp - Ph I From Old Mines Rd to Beltway Parkway
Phase A - Partial Adv Planning/Schem/Env
Incl In El Pico 24 Inch Water Line

NO. OF DWGS	SHEET	SPECIAL SERVICES TASK DESCRIPTION	Principal/PM	Senior Engineer- Civii	Senior Engineer- Bridge	Senior Designer	CADD Operator/ Tech	Clerical	Total Labor Hrs.	Task Cost
		s = 3 culverts. An increase; then increase will be handled as separate Work Authorization								
5. Detent	on Pond desig	in is not included, if rquired, will be handled as a separate Work Authorization								
6. No FE	MA Submittals									
7. No LO	MR (FEMA-Le	tter of Map Revision) or CLOMR (FEMA-Conditional Letter of Map Revision) Included. Will be handled as separate Work Authorizations								

### Fee Schedule for Engineering Svcs Supporting Lump Sum Calculations Hachar Lp - Ph I From Old Mines Rd to Beltway Parkway Phase A - Partial Adv Planning/Schem/Env Incl in El Pico 24 Inch Water Line

SPECIAL SERVICES (FC 161)  PRELIMINARY HYDROLOGIC ANALYSIS  TASK DESCRIPTION	Senior Engineer- Civil	Engineer	Senior Designer	CADD Operator/ Tech	Clerical	Total Labor Hrs.	Remarks	Task Cost
DRAINAGE IMPACT ANALYSIS								s
DATA COLLECTION/ SITE VISITS		8		8				\$ 1,724
COMPUTE ON-SITE DRAINAGE AREAS		16		16				\$ 3,448
OMPUTE ON-SITE PEAK FLOWS FOR EXISTING CONDITIONS		16		16				\$ 3,448
OMPUTE ON-SITE PEAK FLOWS FOR PROPOSED CONDITIONS		16		16				\$ 3,448
EVELOP RUNOFF HYDROGRAPH FOR EXISTING AND PROPOSED CONDITIONS		16						\$ 2,113
OMPUTE PRELIMINARY DETENTION STORAGE BASED ON HYDROGRAPH DIFFERENCES		8						\$ 1,056
ELECT DETENTION LOCATION AND SIZE BASED ON PRELIMINARY DETENTION STORAGE		8						\$ 1,056
SUB-TOTAL -		88	0	56	'n	144		\$ 16,296
			And Street Printers and Company	-				9 10,230
								The Pena
OTAL DIRECT EXPENSES (FROM BELOW)	TOTAL							\$ 16,291
DTAL DIRECT EXPENSES (FROM BELOW)  TOTAL - INCLUDING DIRECT EXPENSES  DURS SUB-TOTALS	0	88 \$ 132,09	0 \$ 106,64	56 \$ 83,44	0 \$ 64.89	144		\$ 16,291
OTAL DIRECT EXPENSES (FROM BELOW)  TOTAL - INCLUDING DIRECT EXPENSES  OURS SUB-TOTALS ABOR RATE PER HOUR IRECT LABOR COSTS	0 \$ 225.50 \$ -	\$ 132.09 \$ 11,623.92	\$ 106.64 \$ -	\$ 83.44 \$ 4,672.64	\$ 64.89 \$ -	\$ 16,296.56		\$ 15,296
DTAL DIRECT EXPENSES (FROM BELOW)  TOTAL - INCLUDING DIRECT EXPENSES  DURS SUB-TOTALS BOR RATE PER HOUR RECT LABOR COSTS DTAL	\$ 225,50 \$ - \$ -	\$ 132,09 \$ 11,623.92 \$ 11,623.92	\$ 106.64 \$ - \$ -	\$ 83.44 \$ 4,672.64 \$ 4,672.64	\$ 64.89 \$ - \$ -	\$ 16,296.56 \$ 16,296.56	CHECK	\$ 16,29
DTAL DIRECT EXPENSES (FROM BELOW)  TOTAL - INCLUDING DIRECT EXPENSES  DURS SUB-TOTALS BOR RATE PER HOUR RECT LABOR COSTS DITAL  ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEE)	\$ 225.50 \$ - \$ -	\$ 132.09 \$ 11,623.92 \$ 11,623.92 71.33%	\$ 106.64 \$ - \$ -	\$ 83.44 \$ 4,672.64 \$ 4,672.64 \$ 28.67%	\$ 64.89 \$ - \$ -	\$ 16,296.56 \$ 16,296.56 100.00%	CHECK	\$ 16,29
DTAL DIRECT EXPENSES (FROM BELOW)  TOTAL - INCLUDING DIRECT EXPENSES  DURS SUB-TOTALS BOR RATE PER HOUR RECT LABOR COSTS DTAL  ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEE)  ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)	\$ 225,50 \$ - \$ -	\$ 132,09 \$ 11,623.92 \$ 11,623.92	\$ 106.64 \$ - \$ -	\$ 83.44 \$ 4,672.64 \$ 4,672.64	\$ 64.89 \$ - \$ -	\$ 16,296.56 \$ 16,296.56	CHECK \$ 16,296.	\$ 16,29
OTAL DIRECT EXPENSES (FROM BELOW)	\$ 225.50 \$ - \$ -	\$ 132.09 \$ 11,623.92 \$ 11,623.92 71.33%	\$ 106.64 \$ - \$ -	\$ 83.44 \$ 4,672.64 \$ 4,672.64 \$ 28.67%	\$ 64.89 \$ - \$ -	\$ 16,296.56 \$ 16,296.56 100.00%		\$ 16,296
OURS SUB-TOTALS ABOR RATE PER HOUR RECT LABOR COSTS OTAL  ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)  RECT EXPENSES  AR RENTAL - \$90 / TRIP X 3 TRIP	\$ 225.50 \$ - \$ -	\$ 132.09 \$ 11,623.92 \$ 11,623.92 71.33%	\$ 106.64 \$ - \$ -	\$ 83.44 \$ 4,672.64 \$ 4,672.64 \$ 28.67%	\$ 64.89 \$ - \$ -	\$ 16,296.56 \$ 16,296.56 100.00%		\$ 16,296
OTAL DIRECT EXPENSES (FROM BELOW)  TOTAL - INCLUDING DIRECT EXPENSES  OURS SUB-TOTALS ABOR RATE PER HOUR IRECT LABOR COSTS OTAL  ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEE)  ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)  IRECT EXPENSES	\$ 225.50 \$ - \$ -	\$ 132.09 \$ 11,623.92 \$ 11,623.92 71.33%	\$ 106.64 \$ - \$ -	\$ 83.44 \$ 4,672.64 \$ 4,672.64 \$ 28.67%	\$ 64.89 \$ - \$ -	\$ 16,296.56 \$ 16,296.56 100.00%		\$ 16,296
OURS SUB-TOTALS ABOR RATE PER HOUR RECT LABOR COSTS OTAL  ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)  RECT EXPENSES  AR RENTAL - \$90 / TRIP X 3 TRIP	\$ 225.50 \$ - \$ -	\$ 132.09 \$ 11,623.92 \$ 11,623.92 71.33%	\$ 106.64 \$ - \$ -	\$ 83.44 \$ 4,672.64 \$ 4,672.64 \$ 28.67%	\$ 64.89 \$ - \$ -	\$ 16,296.56 \$ 16,296.56 100.00%		\$ 16,296 \$ 16,296
DTAL DIRECT EXPENSES (FROM BELOW)  TOTAL - INCLUDING DIRECT EXPENSES  DURS SUB-TOTALS ABOR RATE PER HOUR RECT LABOR COSTS DTAL  ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEE)  ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)  RECT EXPENSES  AR RENTAL - \$90 / TRIP X 3 TRIP	\$ 225.50 \$ - \$ -	\$ 132.09 \$ 11,623.92 \$ 11,623.92 71.33%	\$ 106.64 \$ - \$ -	\$ 83.44 \$ 4,672.64 \$ 4,672.64 \$ 28.67%	\$ 64.89 \$ - \$ -	\$ 16,296.56 \$ 16,296.56 100.00%		\$ 16,296
OURS SUB-TOTALS ABOR RATE PER HOUR RECT LABOR COSTS OTAL  ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)  RECT EXPENSES  AR RENTAL - \$90 / TRIP X 3 TRIP	\$ 225.50 \$ - \$ -	\$ 132.09 \$ 11,623.92 \$ 11,623.92 71.33%	\$ 106.64 \$ - \$ -	\$ 83.44 \$ 4,672.64 \$ 4,672.64 \$ 28.67%	\$ 64.89 \$ - \$ -	\$ 16,296.56 \$ 16,296.56 100.00%		\$ 16,296

3. No LOMAR or CLOMER Included. Will be handled as separate Work Authorizations

EXHIBIT D 
Fee Schedule for Engineering Svcs Supporting Lump Sum Calculations

Hachar Lp - Ph I From 0.1 miles east of Beltway Parkway to I-35

frontage Partial Adv Planning/Schem/Env

#### MAXIMUM AMOUNT PAYABLE

#### PHASE I - ADVANCED PROJECT DEVELOPMENT SERVICES

#### ENVIRONMENTAL ASSESSMENT

Dannenbaum Self Perform

				PHASE I									
SPECIAL SERVICES (FC 120) ENVIRONMENTAL SERVICES	Project Engineer (IV)	Project Engineer (IV)	Civil Engineer	Scientist (Community Impact)	Scientist (Env. Review)	Scientist (Env. Review)	Scientist (Haz. Material Review)	Civil Engineer (Air Quality)	Civil Engineer (Noise Analyses)	CADD Technician	Administration/ Clerical	Total LABOR HOURS	Task Cost
TASK DESCRIPTION				impacti			, , , ,						
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III. SOCIAL, ECONOMIC AND EVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT		<del></del>									<del>                                     </del>		
FC 120 - SOCIAL, ECONOMIC AND EVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT				-	-								
PREPARE ENVIRONMENTAL REPORT - ENVIRONMENTAL ASSESSMENT				<del> </del>									
CONDUCT PUBLIC INVOLVEMENT		<del></del>						-					
- CONDUCT CULTURAL RESOURCE INVESTIGATION		+			+		1	-		İ			
CONDUCT HAZARDOUS MATERIALS INVESTIGATION/REVIEW OF EXISTING INFORMATION				-								***************************************	
CONDUCT NOISE AND AIR QUALITY ANALYSIS		1		<del>                                     </del>			-						
CONDUCT ECOLOGICAL INVESTIGATION/REVIEW OF EXISTING INFORMATION		-	1	-							1		i
CONDUCT SOCIAL-ECONOMIC INVESTIGATION/REVIEW OF EXISTING INFORMATION									<del>                                     </del>	<del>                                     </del>	1		
GEOLOGY review						-	+	<del>                                     </del>					
PROJECT MANAGEMENT		-	1			<del>                                     </del>	<del>                                     </del>	†	<b> </b>	_		0	\$
PROJECT MANAGEMENT AND DOCUMENT PREPARATION (by Dannenbaum)		1	1	<del> </del>			1	<u> </u>	<del>                                     </del>	i	i i	-	s .
AZB COORDINATION		1	+			1.	<del> </del>	†	i			0	5 -
COORDINATION WITH TXDOT (by Dannenbaum)		-						-			0	0	5 -
CONTRACT ADMINISTRATION (by Dannenboum)		+			32		-			0	1 1		\$ 4,555.84
TEAM MEETING IN LAREDO (FIVE MEETINGS)	1	<del> </del>	+		1 32	<del> </del>	-	<del>                                     </del>			<del>                                     </del>	0	5 -
EA PREPARATION (by Dannenbaum)	18	26	-	14	-		<del>                                     </del>	<del></del>			18	76	\$ 9,472.28
PRELIMINARY REPORT PREP/COMMENT RESPONSE (by Dannenbaum)	1 4	1 0	+	14			-			34	1 1	38	\$ 4,070.46
EXHIBITS/FIGURES/COORDINATION (figures provided by danneneboum)		1 0		1 8				<u> </u>		1	1		\$ 1,138,96
PERMIT IDENTIFICATION (ACTUAL PERMITS NOT INCLUDED)	1 18	1 0	+	-				<del></del>	<del>                                     </del>	<del>                                     </del>		18	\$ 2,562.66
GIS/GRAPHICS (figures provided by Dannenbaum)	6	1 32		12				-	-	18	18	86	\$ 10,186,78
DRAFT REPORT PREP/COMMENT RESPONSE (by Dannenbaum)	1 6	1 20		1 12	1			1	1	1 18	1 18	7.4	\$ 8,478.34
FINAL REPORT PREP/COMMENT RESPONSE (by Dannenbaum)		-		12		-		1		10	0	10	\$ 1,423.70
11-PAGE TXDOT FORM (by Dannenbaum)	2	В			-		1				0	0	\$ 1,425.70
DRAFT ENV, DECISION DOCUMENT (by Dannenbaum)										<del> </del>	0	0	5
FINAL ENV. DECISION DOCUMENT (by Dannenbaum)	<u>-</u>						1		<b>-</b>	1	0	20	\$ 2,847.40
QUALITY ASSURANCE/QUALITY CONTROL (by Dannenbaum)	16	4				<u> </u>		<del> </del>	ļ		- 0	20	5 -
SOCIAL, ECONOMIC, AND ENVIRONMENTAL STUDIES		-	-				+	<del> </del>	<u> </u>	-	-		is .
EXISTING FIELD DATA REVIEW										-		0	
NEED AND PURPOSE							-	ļ				10	\$ 2,562,66
PAST REPORT REVIEW		18										18	2,302,00
TRAFFIC AND CRASH DATA REVIEW/ANALYSIS												0	5 -
DOCUMENTATION				1			-			-		D	
ALTERNATIVES AN LYSIS (by dannenbaum)				-			-					0	
PLANNING DOCU ENTS, ST(P, MTP, FUNDING REVIEW (by dannenbaum)		<del> </del>										0	
ALTERNATIVES DEVELOPMENT WRITE-UP & DESCRIPTIONS (by dannenbaum)							-	-		-	-	U	1
SOCIOECONOMIC REVIEW OF EXISTING INFORMATION							-	-	-				
FIELD DATA COLLECTION / WINDSHIELD SURVEY ONLY (TWO VISITS)										-	-		5
POPULATION AND EJ ANALYSIS									1	1			5
EMPLOYMENT, TAX, AND BUSINESS EFFECTS		-									+		5
COMMUNITY AND RESIDENTIAL DISPLACEMENTS AND EFFECTS			-					-	-	1			15 -
LAND USE AND DEVELOPMENT REVIEW		<u> </u>						-			-		3
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QA/QC		-				<del> </del>	+	-	1	<del> </del>			ls .
BIOLOGICAL AND WATER RESOURCES (review of existing environmental documents)						<del> </del>	+						ls .
FIELD SURVEY		+	-	-	-	<b> </b>		-		+	1	<b></b>	15
REVIEW SUMMARY							1	-	1	1	1	l	\$
SOILS AND FARMLANDS review		+		<del> </del>	-	-	-	+			+		ls -
GEOLOGY review	. 1	1	1	1	4	1	1	1	1		4		17

EXHIBIT D

Fee Schedule for Engineering Svcs Supporting Lump Sum Calculations

Hachar Lp - Ph I From 0.1 miles east of Beitway Parkway to I-35 frontage

Partial Adv Planning/Schem/Env

Control   Cont		Project Engineer (IV)	Project Engineer (IV)	Civil Engineer	Scientist (Community Impact)	Scientist (Env. Review)	Scientist (Env. Review)	Scientist (Haz. Material Review)	Civil Engineer (Air Quality)	Civil Engineer (Noise Analyses)	CADD Technician	Administration/ Clerical	Total LABOR HOURS	Task Cost
	TASK DESCRIPTION				тирист									
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MACRITICAL REPORTS			ANNOUNCES OF THE PROPERTY OF T					THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.						š -
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Committee						ļ		-		-				
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MADRET PRINCIPE   14237   14237   14237   14237   14237   14237   14237   14242   13242   12246   12246   12257   12	URS SUB-TOTALS	70	108	D	46	32	0	0	0	0	70	54	380	
Strict   S		5 142.37	\$ 142.37	\$ 134.42	5 142.37	5 142.37	1 142,37	\$ 142.37	\$ 134.42	5 134.42				
PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEB)  17.17%  17		\$ 9,965.90	\$ 15,375.96	\$ -	\$ 6,549.02	\$ 4,555.84	\$ -							
FRCETE   LABOR UTULIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)   18-29%   26-20%   12-11%   8-42%   0.00%   0.00%   0.00%   0.00%   10-42%   14-21%	TAL .	\$ 9,965.90	\$ 15,375.96	\$ .	\$ 6,549,02	\$ 4,555.84	\$ -	\$ -	\$ -	\$ -	\$ 7,207,90	\$ 3,644.46	\$ 47,299.08	
FRCETE   LABOR UTULIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)   18-29%   26-20%   12-11%   8-42%   0.00%   0.00%   0.00%   0.00%   10-42%   14-21%					,							1	100 000/	AUFAK
Rate   Unit   Amount													100.00%	CHECK 57,239.64
Historiachromesogical    1,00   0	RCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)	18.42%	28.42%	0.00%	12.11%	0,4270	0.00%	0,00%	0,00%	0.00%	10,4276	14.2176	100.0078	e sincasion
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Supplemental is not executed. Assumes 1-hour conference call attendance by one Subconsultar  Oblein right of entry to perform environmental services [Dannenbaum]  Develop letters or other materials for seeking right of entry (Dannenbaum)  Literature Review and Secondary Data Collection  Data collection to consist of two site visits for 5 days to collect data (Includes meetings with TXDC								Environmental Do	ocument will be sul	omitted within 8 mg	onths, Additional t	ime will require sur	opiemental to further o	sevelop or finalize
Detein right of entry to perform environmental services (Dannenbaum)  Develop letters or other materials for seeking right of entry (Dannenbaum)  Data collection to consist of two site visits for 5 days to collect data (Includes meetings with TXDC)	3							environmental do	ot executed Acc	mes 1-hour confer	rence call attendar	ar document, illians	sultant staff once a w	eek for project duration
Develop letters or other materials for seeking right of entry (Dannenbaum)  Literature Review and Secondary Data Collection  Data collection to consist of two site visits for 5 days to collect data (Includes meetings with TXDC	pin right of entry to perform entirenmental conices (Depreshours)							จากกาลแลแรก เรา	DI BACCUIBU. ASSI	ופוווטט וטטווייו פטווופו	CHO CUI DITOHUM	ico by one dobcon	Someth Stall, Dillo d W	SERIOI PROJECTURISMENT
Data collection to consist of two site visits for 5 days to collect data (includes meetings with TXDC								Literature Revie	wand Secondary	Data Collection				The same wife of the same of t
	Such a rest of out of the transition of second right of entry (Dalitical loading										collect data (incli	ides meetings with	TxDOT to obtain con	es of Feasibility Study
Public Involvement activities: AZ&B will prepare materials for environmental impacts of public meeting. Dannenbaum will provide roadway & technical info	lic Involvement activities: AZ&B will prepare materials for environmental impacts of public meeting. Dannenbaum will provide roadway & technical	Info						EA, CE, DCIS, re	view TxDOT proje	ct file.). It is assum	ned that the prime	consultant will prov	vide a list of adjacent	property owners, obtain
Develop public involvement plan - jointly developed	elop public involvement plan - jointly developed							- F. ST, GO 1, GC						
Compile and maintain method its (Dannerbaum)  Natural Resources								Natural Resource	es					

## EXHIBIT D Fee Schedule for Engineering Svcs Supporting Lump Sum Calculations Hachar Lp - Ph I From 0.1 miles east of Beltway Parkway to I-35 frontage Partial Adv Planning/Schem/Env

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SPECIAL SERVICES (FC 120)	Project	Project		Scientist	Scientist (Env.	Scientist (Env.	Scientist (Haz.	Civil Engineer	Civil Engineer	CADD	Administration/	Total LABOR	Cost
ENVIRONMENTAL SERVICES	Engineer (IV)	Engineer (IV)	Civil Engineer	(Community	Review)	Review)	Material	(Air Quality)	(Nolse	Technician	Clerical	HOURS	
TASK DESCRIPTION	Eligineel (IV)	Engineer (1V)		Impact)	Koviciij	1,000,000,	Review)	(rin waarity)	Analyses)		-107.104.1		
TAGK BESCHI HOW											1.711	4	104.0F 404  M
													JSACE 404 permitting, it s scope of work does not
													sultations. This scope
Make arrangements for public meeting (Dannenbaum)													gement Agency. This
The state of the s													de the development of a
								ion Prevention Pla		by prior to constitu	icuon. This scope c	of Work does not meta	do die dovolopinoni or a
	4.						Storniwater Foliu	JOH Frevention F12	ii (Svvrrr)				Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market
Provide two staff members to attend one Public Meeting and one Public Hearing	4						Cultural Resour	20.5					
AZ&6 will develop summary of public meeting and responses to comments	4							y will be conducted	A by Blanton and A	senciates			
Make arrongements for public hearing (Dannenbaum)	4						TVIII GSTIICI G SGTVC	, min be demanded	a by billinoir bire i				
Provide one staff member to attend a public hearing.  Develop comment and response report, summary and analysis and other information from public hearing (Dannenbaum)	4						Fleld Surveys ar	d Environmental	Investigations	and the same of th			
Develop comment and response report, summary and analysis and other information from public nearing (Darmenbaum)	4						The second secon						
1							Eviction field curv	evs will be reviewe	ed for the proposed	d new right of way	and additional buffe	er area for survey is n	o greater than 400 feet
Boundary and and and analysis described from the following to the second section (Boundary)							in width.	eys will be leviene	od tot ale prepense				
Develop and send acknowledgement / response letters to commenters (Dannenbaum)	4						III WILLE						
Develop, publish, and distribute newsletter (Dannenbaum)  Develop and maintain web site (Dannenbaum)	4						Alternatives						
Develop and maintain web site (Dannenbaum)	4						THIS THE TOO						
							Assume no build	and widening the r	oadway with two o	otions at the north	neastern portion of t	he project as depicted	d in August conceptual
Analysis of social and connects because Institutes	I						map of project	Life Meching Die	oudina, mar me e	parent di ale il il il		,	
Anolysis of social and economic impacts, including:  Identify and evaluate social and economic impacts	4						map or project						
identify property owners and tenants adjacent to the roadway project	-						Public Involvem	ent:					
identify property owners and tenants adjacent to the roadway project	4								etings and hearing	ns. AZ&B will prov	vide technical suppo	ort at oublic meetings	and hearings (up to 4
							meetings). AZ&E	will prepare techn	ical exhibits for ou	blic hearing/meet	ings related to envir	onmental Issues. On	e professional of the
							Subconsultant wi	l attend one public	meeting and one	public hearing. E	each is assumed to	require 16 hours per	meeting/hearing for
							travel, attendance	, and related coor	dination. Subcons	sultant will not be r	responsible for the p	preparation of any ma	terials for display or
Identify potential displacements								e meetings, other					
Territy personal deplete the territy personal dependent deplete the territy personal deplete the territy personal deplete the territy personal deplete the territy personal deplete the territy personal deplete the territy personal deplete the territy personal deplete the territy personal deplete the territ	1											The second secon	
	1						Air Quality:						
	İ												
Perform public contact and public involvement to gather information from individuals and communities regarding social impacts (by	1						Air Quality Analys	ls includes a quali	tative Mobile Source	ce Air Toxics (MS.	AT) analysis, MSAT	quantitative analysis	is not included in this
dannenbaum)							scope.				1		
Estimate the losses and gains to tax revenues	1												
Estimate losses and gains using a computer model (NOT INCLUDED)	Ī						Nolse:						
	Ť						The prime shall p	rovide the latest as	erial maps, topogra	aphy files, contour	data, hourly volume	es (if available), truck	percentage, and
	1						information on pe	rmitted developme	ents (if any). The pr	rime shall provide	future hourly volum	es, truck percentage	by roadway facility,
	1										rime shall provide g	ground elevation of th	e proposed barrier.
Identify current and anticipated land uses with surveys and land use plans	ı						Fleld noise meas	urement is not incl	uded in this scope	and contract.			
incorporate subdivision plats into identification of current and anticipated land uses.	ī												
Evaluate travel modes and patterns. Evaluation also shall incorporate;	1						Hazardous Mate	rlals/Phase I ESA					
	1												
	1						No detailed legal	descriptions of pro	perty boundaries y	will be utilized. No	Interior inspections	of structures will be	completed. Historic land
							use will be limited	to review of aerla	I photography. It is	s assumed landov	vners will not be pot	entially impacted by t	he project and no
							interviews will be	conducted by men	nbers of the projec	t team. Only sites	s of environmental of	concern within the 400	o' ROW and within the
							ASTM Standard	search distances fo	or the project area	will be reviewed.	Asbestos was bann	ned in most friable bui	lding materials (spray
							applied surfacing	materials and ther	rmal system insula	tion) in 1978. Phy	sical inspection of t	he interior of building	s or the Identification of
													ındwater, lead-based
Predictive models (NOT INCLUDED)	1						paint, or polychlo	rinated biphenyl (P	CB) sample collec	tion or testing, no	r does it include a ti	tie search.	
: Observation	1												
Public contact	J						Socioeconomic						
	1								ducted. No doorto	o-door, maller, or	phone surveys will b	pe conducted to obtai	n information from
Identify and evaluate the potential for impacts to disabled and elderly individuals and populations	1						residence or bus	iness owners.					
Perform Environmental Justice analysis	j												
Perform Indirect and cumulative impact studies	_						Section 4(f) Eva	uation					
													, , , , , , , , , , , , , , , , , , ,
							This scope and c	ontract includes ne	ecessary coordinat	don, analysis, and	documentation rela	ited to a de minimis fi	nding only. No
Identify considerations impacting pedestrians and bicycles	1						avoidance alterna	atives developmen	it or analysis, or Se	ection 4(f) stateme	ent preparation is inc	ciuded.	
Perform air quality analysis to include a qualitative MSAT analysis	1												
: Perform a traffic noise analysis, The noise analysis also shall include:	1						Environmental I	Decision Docume	nt:				
	1												
	1												

#### Fee Schedule for Engineering Svs Supporting Lump Sum Calculations Hachar Lp - Ph I From 0.1 miles east of Beltway Parkway to I-35 frontage Partial Adv Planning/Schem/Env

		_	_						With the last of t		-	7	
SPECIAL SERVICES (FC 120)	D. C.	D. J. J.		Scientist	O-lanks/m	Outuralist (Fru	Scientist (Haz.	01-11-5	Civil Engineer	0400	A designature to a l	Total LABOR	Task Cost
ENVIRONMENTAL SERVICES	Project	Project	Civil Engineer	(Community	Scientist (Env. Review)	Scientist (Env. Review)	Material	Civil Engineer	(Nolse	CADD Technician	Administration/ Clerical	HOURS	Cost .
TASK DESCRIPTION	Engineer (IV)	Engineer (IV)		Impact)	Review	Review	Review)	(Air Quality)	Analyses)	Technician	Clerical	HOURS	
TASK DESCRIPTION			l			I							
							The Subconsultar	nt shall prepare a c	iraft environmental	decision documen	t for review by EN	V and a final environn	nental decision
							document for app	roval by FHWA. TI	ne decision docum	ent will succinctly s	ummarize the prin	ne aspects of the proj	ect that influence
													ect (Including project
													tive was chosen over
	1												proposed mitigation
												t are not considered s 09 memorandum fron	
Perform computer modeling of existing (if not obtained through field measurements) and predicted noise levels. Modeling shall be												and provide coples to	
accomplished with the Federal Highway Administration (FHWA) approved Traffic Noise Model							agencies, client, e		te will be submitted	i to Daiminenbaum	to copy document	and provide copies i	o sancifolders,
Technical Expert: Determine predicted noise impact contours for undeveloped property	1						lagoricios, chorti, c	10.	***************************************				
Technical Expert: Water Quality studies	ł						Deliverables:						
Total Laboration and the second secon	1												
							The Subconcultor	t chall conduct an	Internal quality and	urance and quality	control review on	each deliverable hefo	re it is submitted to the
							County/State for r	eview After the dr	aft deliverables are	submitted and rev	lewed by TxDOT.	the Subconsultant sh	all revise and resubmit
													d the Federal Highway
Perform wetland delineations							Administration.						
Perform wild and scenic river studies (NOT required)	1												
Perform floodplain Impact studies (by Dannenbaum)	1						Assume classifica	tion letter results i	n Environmental As	ssessment docume	ent and project obta	alns FONSI.	
Perform coastal barrier studies (NOT Regulred)	1												
							Coples of the Dra	ft and Final Enviro	nmental Assessme	nt for FHWA ravia	w will be printed do	ouble sided. Subcons	sultant is not responsible
Perform coastal zone impact studies (NOT REQUIRED)									nal Environmental A		W WILL BO PHINOG GO	odbje slaca. Gabooni	and it is not responsible
	i										1	·	
	1												
United States Coast Guard Section 9 Permit (NOT REQUIRED)	İ												
Section 10 of the Rivers and Harbors Act (33 U.S.C. 403) (NOT REQUIRED)	i												
Perform water body modifications and wildlife impact studies													
Threatened and endangered species.													
Survey for protected species habitat													
Survey shall be performed for T & E species on the El Paso County TPWD and USFWS lists (no species specific surveys are													
anticipated),													
Check for presence of designated critical habitat													
Habitat analysis (Entire project area not just Threatened and Endangered Species)													
Analysis of stream modifications (if any) and associated habitats													
Early coordination with United States Fish and Wildlife Service (USFWS) / Texas Parks and Wildlife Department (TPWD)													
(Indicate which) (coordination with both USFWS and TPWD)													
Perform invasive species studies													
Perform essential lish habitat studies (NOTINCLUDED)													
Perform bonoficial landscaping studies NONE													
Determine farmland impacts NONE													
Perform hozardous materials studies													
Archeological studies:													
Perform archeological background studies			ecconomic de la conomica del conomica de la conomica del conomica de la conomica del la conomica de la conomica		The state of the s				420000000000000000000000000000000000000	emerce description		***************************************	
Perform archeological background studies													
Perform an archeological reconnaissance survey													
Perform an archeological intensive survey													
Identify Native American tribes for consultation													
Identify and seek the views of consulting parties (NOT INCLUDED)													
Identify and seek the views of local historical and archeological exciteties, county historical commissioners, and other individuals or	ĺ												
organizations													
Perform early coordination with the State Historic Preservation Officer (SHPO)													
Historic Resource Studies: Consultant will prepare the Pre-coordination Request (PCR) form													
Reconnaissance Survey													
Intensive Survey													
Perform visual Impact studies													
Perform construction Impact studies													
Perform Construction Impoct studies Perform Section 4(f) evaluations													
Perform Section 4(1) evaluations  Perform services as summarized in the summary of hours above													
, Grown Services as summariced in the summary of nours above													
Alternatives to be considered:													
A, No build													
B. Alignment Alternatives													
-	L											COMMETT DESIGNATION OF THE PARTY OF THE PART	

Fee Schedule for Engineering Svcs Supporting Lump Sum Calculations Hachar Lp - Ph I From 0.1 miles east of Beltway Parkway to I-35 frontage Partial Adv Planning/Schem/Env

#### MAXIMUM AMOUNT PAYABLE

PHASE I - ADVANCED PROJECT DEVELOPMENT SERVICES

ENVIRONMENTAL ASSESSMENT

AZB, LLC.

Hachar Loop Phase II, 3.5 MILES

#### PHASEI

				PHASEI									
SPECIAL SERVICES (FC 120) ENVIRONMENTAL SERVICES	Project Engineer (IV)	Project Engineer (IV)	Civil Engineer	Scientist (Community	Scientist (Env. Review)	Scientist (Env. Review)	Scientist (Haz. Material Review)	Civil Engineer (Air Quality)	Civil Engineer (Noise	CADD Technician	Administration/ Clerical	Total LABOR HOURS	Task Cost
TASK DESCRIPTION	angineer pry			Impact)					Analyses)				
III, SOCIAL, ECONOMIC AND EVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT		<del>                                     </del>	Ť										i e
FC 120 -SOCIAL, ECONOMIC AND EVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT						İ							1
PREPARE ENVIRONMENTAL REPORT - ENVIRONMENTAL ASSESSMENT													1
CONDUCT PUBLIC INVOLVEMENT	<del></del>								İ				1
CONDUCT FUBLIC INVOLVEMENT     CONDUCT CULTURAL RESOURCE INVEST     ION													1
CONDUCT HAZARDOUS MATERIALS INVES     TION/REVIEW OF EXISTING INFORMATION			+		NAME AND ADDRESS OF THE OWNER, WHEN PERSON O								1.
CONDUCT NOISE AND AIR QUALITY ANALY			<del>                                     </del>				1	i			i	1	ſ
CONDUCT ECOLOGICAL INVESTIGATION/F EVIEW OF EXISTING INFORMATION			-										1
CONDUCT SOCIAL-ECONOMIC INVESTIGATION/REVIEW OF EXISTING INFORMATION     CONDUCT SOCIAL-ECONOMIC INVESTIGATION/REVIEW OF EXISTING INFORMATION	<del></del>					1							f .
- CONDUCT SUCIAL-ECONOMIC INVESTIGATION/REVIEW OF EXISTING INFORMATION							-	<u> </u>					ſ
DECOSO YARKA WITU NO UOURA ARE UAGUAR AGERUA (EAN ER) TARKA		-	_				<del></del>		1		<del></del>	1	1
SCOPED TASKS WITH NO HOURS ARE HACHAR LOOP PH.1 (5 MILES) TASKS			-			<u> </u>		<b> </b>	i		<b>i</b>		i .
PROJECT MANAGEMENT		-				1			<del>                                     </del>	<del>                                     </del>		<del>i                                    </del>	-
PROJECT MANAGEMENT AND DOCUMENT PREPARATION (by Dannenbaum)			+			1		<u> </u>		<del> </del>	-	0	s
AZB COORDINATION	+	<del></del>	+	-				1	-		-	U	-
COORDINATION WITH TxDOT (by Dannenbaum)								1	-		<del>                                     </del>		5
CONTRACT ADMINISTRATION (by Dannenbaum)									<del></del>			0	
TEAM MEETING IN LAREDO (FIVE MEETINGS)			-			1	1	1	-				s .
EA PREPARATION (by Dannenbaum)												-	\$
PRELIMINARY REPORT PREP/COMMENT RESPONSE (by Dannenbaum)													
EXHIBITS/FIGURES/COORDINATION (fluures provided by dannenebaum)													3
PERMIT IDENTIFICATION (ACTUAL PERMITS NOT INCLUDED)					A STATE OF THE STA						1	0	•
GIS/GRAPHICS (figures provided by Dannenbaum)													\$ "
DRAFT REPORT PREP/COMMENT RESPONSE (by Donnenbaum)		1					1	l					. 5
FINAL REPORT PREP/COMMENT RESPONSE (by Dannenbaum)													įS -
11-PAGE TXDOT FORM (by Dannenbaum)								1		Description of the second of t	1	1	
DRAFT ENV. DECISION DOCUMENT (by Dannenbaum)									Assessment of the second				\$ -
FINAL ENV. DECISION DOCUMENT (by Dannenbaum)													
QUALITY ASSURANCE/QUALITY CONTROL (by Dannenbaum)													-
SOCIAL, ECONOMIC, AND ENVIRONMENTAL STUDIES			1								1	0	5 -
EXISTING FIELD DATA REVIEW (2 site visits)			1	32	32	1					T	64	\$ 9,111.6
NEED AND PURPOSE						1		Ī		1		Ī	-
PAST REPORT REVIEW		<b>T</b>	T				İ	İ					-
TRAFFIC AND CRASH DATA REVIEW/ANALYSIS			i.				İ	i			1		-
DOCUMENTATION			+			<del></del>					T T		· -
ALTERNATIVES ANALYSIS (by dannenbaum)			-			<del>                                     </del>			i	i	1		-
PLANNING DOCUMENTS, STIP, MTP, FUNDING REVIEW (by dannenbaum)						1	1	_	1		<del>                                     </del>		
						<del> </del>			<del>                                     </del>		1	1	· ·
ALTERNATIVES DEVELOPMENT WRITE-UP & DESCRIPTIONS (by dannenbaum)					-		-					0	
SOCIOECONOMIC REVIEW OF EXISTING INFORMATION			-	22	32		-	1			-	64	\$ 9,111,6
FIELD DATA COLLECTION / WINDSHIELD SURVEY ONLY (TWO VISITS)		1 10		32	32	<del> </del>	-		-	14		30	\$ 3,719,5
POPULATION AND EJ ANALYSIS		16								14		16	\$ 2,277.9
EMPLOYMENT, TAX, AND BUSINESS EFFECTS		16					+	1				the second section of the second section and the second section and the second section	\$ 2,277.9. \$ 5,694.8
COMMUNITY AND RESIDENTIAL DISPLACEMENTS AND EFFECTS		8		32	-	1	-					40	\$ 5,694.80 \$ 3,416.8
LAND USE AND DEVELOPMENT REVIEW		16		8			-	ļ				24	
AIR QUALITY	1	8						40				48	\$ 6,515.76
NOISE												0	
EXISITING CONDITIONS TRAFFIC NOISE MODELING			20				1		26			46	\$ 6,183.3
DESIGN YEARCONDITIONS TRAFFIC NOISE MODELING			20			1		1	26			46	\$ 6,183.33
BARRIER ANALYSIS	1								26			26	\$ 3,494,9
PREDCITED SOUND LEVELS AT UNDEVELOPED LANDS									8	-		8	\$ 1,075.3
PREPARE NOISE IMPACT ASSESSMENT		14	1 1				1	AL AND ADDRESS OF THE PARTY OF	16		0	31	\$ 4,278.3
QA/QC	34	8										42	\$ 5,979.5
BIOLOGICAL AND WATER RESOURCES (review of existing environmental documents)		1	1				1						5 -
		1		32	32			1				64	\$ 9,111.6
FIELD SURVEY (2 site visits) REVIEW SUMMARY		1		U.L.	- 0-	And the second second second second	The second secon					1 24	\$ 3,416.88

### EXHIBIT D Fee Schedule for Engineering Svos Supporting Lump Sum Calculations Hachar Lp - Ph I From 0.1 miles east of Beltway Parkway to I-35 frontage Partial Adv Planning/Schem/Env

SPECIAL SERVICES (FC 120) ENVIRONMENTAL SERVICES TASK DESCRIPTION	· Project Engineer (IV)	Project Engineer (IV)	Civil Engineer	Scientist (Community Impact)	Sclentist (Env. Review)	Scientist (Env. Review)	Scientist (Haz. Material Review)	Civil Engineer (Air Quality)	Civil Engineer (Noise Analyses)	CADD Technician	Administration/ Clerical	Total LABOR HOURS	Task Cost
SOILS AND FARMLANDS review		-				40				В		48	\$ 6,518.56 \$ 3,416.88
GEOLOGY review CULTURAL & HISTORICAL (BY OTHERS) RESOURCES REVIEW	1					24	1					0	\$ -
SECTION 4(F)/6(F) ANALYSIS AND COORD.				32	16							48	\$ 6,833.76
CONSTRUCTION IMPACTS				24								24	\$ 3,416.88 \$ 3,416.88
HAZARDOUS MATERIALS REVIEW		-		24								24	\$ 2,847.40
ENVIRONMENTAL RECORDS REVIEW	<u> </u>		<u> </u>	<u> </u>	20	40	40					20 24	\$ 2,847.40
SITE VISIT	<u> </u>	1	<u> </u>			12	1 12					16	\$ 2,277.92
ADJACENT LAND USE INTERVIEWS (none)							10					0	\$ -
REPORT PREP/COMMENT RESPONSE		1					24					24	\$ 3,416.88
INDIRECT AND CUMULATIVE IMPACTS												D	\$ -
REVIEW PLANNING DOCUMENTS												0	\$ -
PREPARE MPO/CITY QUESTIONNAIRE												0	s - s -
MEETING WITH MPO AND CITY							-					0	, .
COLLECT DATA, DOCUMENT, AND SUMMARIZE MEETINGS MPO/CITY FOLLOW-UP	-	<del>                                     </del>					<del>                                     </del>					0	\$ -
REVIEW RESOURCE IMPACTS PREVIOUSLY PREPARED	1	<b>†</b>	i -			i	1					0	s -
DOCUMENTATION	Ï	İ			İ							0	\$ -
GRAPHICS SUPPORT												0	\$ -
PUBLIC INVOLVEMENT FOUR MEETINGS (LED BY DANNENBAUM, ONE PERSON FROM AZ&B)							4		463			0	- Direction
TOTAL FC 120 - SOCIAL ECONOMIC AND EVIRGAMENTAL STUDIES AND PUBLIC INVOLVEMENT		100		270		100	-	and the same of th	112				
NOURS OUR TOTAL O	34	86	41	216	132	100	52	40	102	22	0	825	
HOURS SUB-TOTALS LABOR RATE PER HOUR	5 142.37										176		
DIRECT LABOR COSTS	\$ 4,840,58											\$ 115,133.60	
TOTAL	\$ 4,840.58					\$ 14,237.00	\$ 7,403.24	\$ 5,376.80	\$ 13,710.84	\$ 2,265.34	s -	\$ 115,133.60	
						***************************************							
PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEE)	4,20%	10.63%	4.79%	26.71% 26.18%	16.32% 16.00%	12,37% 12,12%	6.43% 6.30%	4.67% 4.85%	11.91% 12,36%	1.97% 2.67%	0.00%	100.00%	CHECK
PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)	4.12%	10.42%	4.97%	26.18%	16.00%	12.1270	6.30%	4.0570	12,30%	2,0176	0,0076	100.0078	
DIRECT EXPENSES	Rate	Unit	Amount		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	exister and write							
Historic/Archaelogical	0.00								CITAL STREET, N				\$ .
B1/2X11 copies (color) by dannenbaum	S -	each	2,680								Service Control		S -
B1/2X11 copies (b/w) by dannenbaum		each	19,500						The state of their sta				\$ -
11X17 copies (color) by dannenbaum	IS -	leach	3,900			Maria de la companya del companya de la companya de la companya del companya de la companya de l							\$ - \$ -
11X17 copies (b/w)	0.50	each	0		V								5 -
Mileage (8 RT) Air Travel	\$ 600.00	miles	0								-		5 -
Hotel	\$ 82,00		4										\$ 328.00
PerDiem	\$ 51.00		0		APPROXICE TAXABLE								\$ -
Rental Car	\$ 65.00		0		Section 2						ETHE CENSES	1	5 .
Fuel for Rental Car	\$ 3.75	gallons	0		High A Section of the section of the				AND DESCRIPTION				s -
Overnight Carrier Cost (Letter Size)	\$ 22.00		0		ALEXANDER STREET								\$ -
Overnight Carrier Cost (Oversized Box)	\$ 50,00 \$ 1,200,00		0										\$ 1,200.00
Hazmat Dalabase Search GPS Dally Use Fee		day	0				A REPUBLICATION OF	1701-1-1-1-1-1-1					\$ 1,200.00
Curation Fee (Archeology)		drawer	0		Line and the second		THE REAL PROPERTY.	The state of the s			e idee on	WEATHER THE	\$ -
Field Supolles (lathes/paint/liagning)		day	0		282-1-3-2		Part Control						\$ -
CDs		each	D				Market Edward			Nersey established			\$ 23.53
		Property No.					Control of Control of		the White	STATE OF STATE			\$ 1,551.53
TOTAL DIRECT EXPENSES													440.000.10
				Control of the local division in the local d									\$ 116,685.13
TOTAL ENVIRONMENTAL SERVICES							Special Brownia	)E'					
	<u> </u>						Special Provision	15:					
TOTAL ENVIRONMENTAL SERVICES ASSUMPTIONS:							Special Provision						
TOTAL ENVIRONMENTAL SERVICES ASSUMPTIONS: Environmental Services to Be Performed as summarized in the summary of hours.	1												The state of the s
TOTAL ENVIRONMENTAL SERVICES ASSUMPTIONS:	y of hours and in t	this section											
TOTAL ENVIRONMENTAL SERVICES ASSUMPTIONS: Environmental Services to Be Performed as summarized in the summary of hours.	y of hours and In t	ihls section			· , , , , ,		Management and	l Coordination					
TOTAL ENVIRONMENTAL SERVICES ASSUMPTIONS: Environmental Services to Be Performed as summarized in the summary of hours.	y of hours and in t	this section			, 2		Management and	Coordination				an 9 months. Draft ar	
TOTAL ENVIRONMENTAL SERVICES ASSUMPTIONS: Environmental Services to Be Performed as summarized in the summary of hours.	y of hours and in t	this section					Management and Environmental Do Environmental Do	Coordination	mitted within 8 mor	nths. Additional tir	ne will require supp	an 9 months. Draft ar lemental to further dev	velop or finalize
TOTAL ENVIRONMENTAL SERVICES ASSUMPTIONS: Environmental Services to Be Performed as summarized in the summary of hours.	y of hours and in t	this section					Management and Environmental Do Environmental Do environmental do	Coordination  cument developme cumentwill be sub	mitted within 8 mor	nths. Additional tir the environementa	ne will require supp I document, finalize	an 9 months. Draft ar lemental to further dev and coordinate with a	velop or finalize gencies for FONS! If
TOTAL ENVIRONMENTAL SERVICES ASSUMPTIONS: Environmental Services to Be Performed as summarized in the summary of hours.	y of hours and in t	ihls section					Management and Environmental Do Environmental Do environmental do	Coordination  cument developme cumentwill be sub	mitted within 8 mor	nths. Additional tir the environementa	ne will require supp I document, finalize	an 9 months. Draft ar lemental to further dev and coordinate with a	velop or finalize

# EXHIBIT D Fee Schedule for Engineering Sves Supporting Lump Sum Calculations Hachar Lp - Ph I From 0.1 miles east of Beltway Parkway to I-35 frontage Partial Adv Planning/Schem/Env

	1		T						1	1		1	Task
SPECIAL SERVICES (FC 120)	Project	Project		Scientist	Scientist (Env.	Scientist (Env.	Scientist (Haz,	Civil Engineer	Civil Engineer	CADD	Administration/	Total LABOR	Cost
ENVIRONMENTAL SERVICES	Engineer (IV)	Engineer (IV)	Civil Engineer	(Community	Review)	Review)		(Air Quality)	(Noise	Technician		HOURS	
TASK DESCRIPTION				Impact)					Analyses)		A V		
					The second second second second second		Data collection to cor	nsist of two site v	visits for 5 days to	collect data (incl.	udes meetings with T	xDOT to obtain copie	s of Feasibility Study.
Public Involvement activities: AZ&B will prepare materials for environmental impacts of public meeting. Dannenbaum will provide roadw	av & technical info						EA, CE, DCIS, review						
	-, -, -, -, -, -, -, -, -, -, -, -, -, -						and provide ROE for						
Develop public involvement plan - jointly developed	T												
Compile and maintain mailing list (Dannenbaum)	Ť						Natural Resources						
	T						It is assumed that two	o windshield sur	vey will be schedu	uled and conducte	ed. This scope of wor	k does not include US	ACE 404 permitting.
							is assumed that perm						
Make arrangements for public meeting. (Dannenbaum)							include presence abs						
wake already for public meeting (Danneroburn)							work does not includ	le a hydrologic m	nodel or letter of m	ap revision (LOM	R) from the Federal F	Emergency managem	ent Agency. This sec
							of work does not incl			to construction.	This scope of work d	loes not include the d	evelopment of a
	1						Stormwater Pollution	Prevention Plan	n (SWPPP)				
Provide two staff members to attend one Public Meeting and one Public Hearing	1												
AZ&B will develop summary of public meeting and responses to comments	1						Cultural Resources						
Make arrangements for public hearing (Dannenbaum)	1						Windshield surveyw	III be conducted	by Blanton and As	sociates			
Provide one staff member to attend a public hearing.	1								N			***************************************	
Develop comment and response report, summary and analysic and other information from public hearing (Dannenbaum)	1 .						Field Surveys and E	environmental I	nvestigations				
											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
B								s will be reviewed	d for the proposed	new right of way	and additional buffer	area for survey is no	greater than 400 feet
Develop and send acknowledgement / response letters to commenters (Dannenbaum)	4						width.						
Develop, publish, and distribute newsletter (Dannenbaum)	ļ						Alternatives						
Develop and maintain web site (Dannenbaum)	4						Alternatives						
							A				tom notion of th	a acalast as deploted	n August concentual
Analysis of social and economic impacts, including:	l						map of project	a widening the ru	dadway with two of	nions at the notine	leastern portion of the	e project as depicted	ii August conceptiat
Identify and evaluate social and economic impacts	+						map of project						
Identify property owners and tenants adjacent to the roadway project	+						Public Involvement:	,					
property officers and total and total and relatively project	†						Dannenbaum will arr		etings and hearing	s. AZ&B will prov	vide technical suppor	t at public meetings a	nd hearings (up to 4
	1											nmental Issues. One	
													eeting/hearing for trave
							attendance, and relat	ted coordination.	. Subconsultant w	vill not be respons	sible for the preparation	on of any materials fo	r display or presentatio
Identify potential displacements							at the meetings, other	er than contract of	deliverables.		70		NAC 1917 N
	Ī												
	I						Air Quality:						
	1												
Perform public contact and public involvement to gather information from individuals and communities regarding social impacts (by dannenbaum)							Air Quality Analysis I	ncludes a qualita	ative Mobile Sourc	e Air Toxics (MSA	AT) analysis, MSAT o	quantitative analysis is	s not included in this
	<u> </u>						scope.						
Estimate the losses and gains to tax revenues	4												
Estimate losses and gains using a computer model (NOT INCLUDED)	1						Noise:						
							The prime shall provi						
	45						Information on permit						
I de alle aurent and apitale de alle ad una subti aurent and to ad una subti											rime shall provide gro	ound elevation of the	proposed barrier. Fiel
Identify current and anticipatediand uses with surveys and land use plans Incorporate subdivision plats into identification of current and anticipated land uses,	4						noise measurement i	is not included in	n this scope and co	JULIECE			
Evaluate travel modes and potterns. Evaluation also shall incorporate:	-						Hazardous Material	In/Dhana I ECA				ersension in the automatical	
Evaluate vaver modes and potents. Evaluation also shall incorporate:	+						Mazardous Material	IST HUSE I LOA					
	1												
	I												impleted. Historic land
							use will be limited to						
	1						interviews will be con						
							ASTM Standard sear						
							asbestos containing						or the identification of
Predictive models (NOT INCLUDED)							paint, or polychlorina						GM9(61, 1650-0350)
: Observation	+						paint, or polychionna	ited Diprientyi (PC	on Sample Collect	for or tesuing, nor	GOES ICHICIDGE & GUE	e dearch.	
Publiccontact	+						Socioeconomics						
Tabliceontact	+ .							eve will be cond	ucted No door to	-door mailer or r	phone surievs will be	conducted to obtain i	nformation from
Identify and evaluate the potential for impacts to disabled and elderly individuals and populations							residence or busines		dottod, 140 door-to	-door, manor, or p	Shorto Sarvoys will be		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Perform Environmental Justice analysis	†						Touristics of Dabinot	-					
Perform indirect and cumulative impact studies	†						Section 4(f) Evaluat	tion					
	Ť												
							This scope and contr	ract includes nec	cessary coordination	on, analysis, and r	documentation relate	ed to a de minimis find	ling only. No avoldance
Identify considerations impacting pedestrians and bicycles							alternatives develope						
Perform air quality analysis to include a qualitative MSAT analysis	Ť						THE RESERVE THE PARTY OF THE PA						
: Perform a traffic noise analysis. The noise analysis also shall include:	T						Environmental Deci	ision Documen	t:				
(by Dannenbaum)	T												

#### EXHIBIT D -

#### Fee Schedule for Engineering Svcs Supporting Lump Sum Calculations Hachar Lp - Ph I From 0.1 miles east of Beltway Parkway to I-35 frontage Partial Adv Planning/Schem/Env

ODVOLA OFFICIAL TO AND	1	T	T	T	T	Y			T	r	T	T	Task
SPECIAL SERVICES (FC 120)	Project	Project		Scientist	Scientist (Env.	Scientist (Env.	Scientist (Haz.	Civil Engineer	Civil Engineer	CADD	Administration	Total LABOR	Cost
ENVIRONMENTAL SERVICES	Engineer (IV)	Engineer (IV)	Civil Engineer	(Community	Review)	Review)	Material Review)	(Air Quality)	(Noise	Technician	Clerical	HOURS	
TASK DESCRIPTION				Impact)		1		,	Analyses)				
		A	A						4	A		A	
							The Colors william	4 - L - II	4		- 1	1 d - flt - midn-m	
												/ and a final environm of the project that influ	
												n of the project (Includ	
												d alternative was chos	
												of all the proposed mered significant. The e	
Perform computer modeling of existing (if not obtained through field measurements) and predicted noise levels. Modeling												ered significant, (ne e ne FHWA Texas Divisi	
shall be accomplished with the Federal Highway Administration (FHWA) approved Traffic Noise Model												eholders, agencies, cli	
	1						delinelable will be	Subitilitied to Dalii	пеньации со сору с	ocument and pr	DVIGE COPIES to Stake	enolders, agencies, ci	ient, etc.
Technical Expert: Determine predicted noise impact contours for undeveloped property	1						D. U						
Technical Expert: Water Quality studies	1						Deliverables:						
					-							each detiverable befor	
	İ											the Subconsultant sha	
								dress all comment	s received from En	vironmenta! Affai	rs Division, TxDOT I	Laredo District and the	e Federal Highway
Perform wetland delineations	Ţ						Administration.						
Perform wild and scenic river studies (NOT required)	I												
Perform floodplain Impact studies (by Dannenbaum)	I						Assume classif.ca	tion letter results in	n Environmental As	sessment docum	nent and project obta	ains FONSI.	
Perform coastal barrier studies (NOT Required)	Ī												
·	Ī												
							Coples of the Draf	t and Final Enviro	nmental Assessme	nt for FHWA revi	ew will be printed do	uble sided. Subconst	ultant is not responsible
Perform coastal zone Impact studies (NOT REQUIRED)									al Environmental A		anna series e la constanti del		
	Ť						h-man-			O THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE		THE CONTRACTOR OF THE CONTRACT	
	i												
	1												
United States Coast Guard Section 9 Permit (NOT REQUIRED)	+												
Section 10 of the Rivers and Harbors Act (33 U.S.C. 403) (NOT REQUIRED)	<del>[</del>												
	ļ												
Perform water body modifications and wildlife impact studies	l												
Threatened and endangered species.	I												
Survey for protected species habitat	<u>[</u>												
Survey shall be performed for T & E species on the El Paso County TPWD and USFWS lists (no species specific surveys													
are anticipated).													
Checkfor presence of designated critical habitat	Ī												
Habitat analysis (Entire project area not just Threatened and Endangered Species)	F												
Analysis of stream modifications (if any) and associated habitats													
	Ī												
Early coordination with United States Fish and Wildlife Service (USFWS) / Texas Parks and Wildlife Department (TPWD)													
(Indicate which) (coordination with both USFWS and TPWD)													
Perform Invasive species studies	1												
Perform essential fish habitat studies (NOT INCLUDED)	Ī												
Perform beneficial landscaping studies	İ												
Determine farmland impacts	i												
Perform hazardous materials studies	İ												
Archeological studies:	<del>i</del>												
Perform archeological background studies (by biamone Associates)	ł												
Perform archeological background studies (by Blanton& Associates)											<del></del>		and the second s
Perform an archeological reconnaissance survey (by Blanton& Associates)	!												
Perform an archeological intensive survey (by Blanton& Associates)	1												
Identify Native American tribes for consultation	I												
Identify and seek the views of consulting parties (NOT INCLUDED)													
identity and seek the views of local historical and archeological societies, county historical commissioners, and other	İ												
individuals or organizations	1												
Perform early coordination with the State Historic Preservation Officer (SHPO)	t .												
Historic Resource Studies: Consultant will prepare the Pre-coordination Request (PCR) form	† *												
	ŧ												
	t												
Reconnalssance Survey	Ť												
Reconnalssance Survey Intensive Survey	Ī												
Reconnalssance Survey													
Reconnaissance Survey Intensive Survey	1												
Reconnalissance Survey Intensive Survey Perform visual Impact studies	1												
Reconnaissance Survey Intensive Survey Perform visual impact studies Perform construction impact studies Perform Sociion 4(f) evaluations													
Reconnalssance Survey Intensive Survey Perform visual Impact studies Perform construction impact studies													
Reconnalissance Survey Intensive Survey Perform visual impact studies Perform construction impact studies Perform Section 4(f) evaluations													
Reconnaissance Survey Intensive Survey Perform visual impact studies Perform construction impact studies Perform Section 4(f) evaluations Perform Services as summarized in the summary of hours above  Alternatives to be considered:	1												
Reconnalssance Survey Intensive Survey Perform visual Impact studies Perform construction impact studies Perform Section 4(f) evaluations Perform services as summarized in the summary of hours above													

# Attachment A.1. Fee Schadule for Engineering Sees Supporting Lump Sum Calculations: Bochar Lp - Br. (From O.) ander seat of Behaving Parkway (to 1.35 frontize Partial Adv Planning Schemifers EXHIBIT D FEE SCHEDULE

SUBPROVIDER NAME: Blanton Regional Parkway Environmental Assessment

TASK DESCRIPTION	Senior Environmental Manager	Senior Environmental Scientist/Planner	Erry Sci    / Bio    / Sr. Archeologist / Sr. Historian	Env Sci 1/ Bio 1 / Arch II / Historian II	Env Sci Arch I / Historian I	Senior GIS Tech	GIS Tech	Admin/ Clerical	LABOR HRS.
Social, Economic, and Environ Studies and Public Involvement (FC120)		CONTRACTOR OF THE PARTY AND THE				10.00	16-41	1	a costa
ENVIRONMENTAL DOCUMENTATION					-				
Additional area PCR/Survey for Historic Resources	4		40	40			40		
Archeological Background Studies and Permit Application			24			4		8	136
Archeological Survey	1 16		48	32			16	4	52
Section 4(n Evaluations	10		40	32	32	4	40	16	188
Section 6(f) Evaluations	1								4
HOURS SUB-TOTALS									1
	32	0	112	76	32 1	8 1	96	1 28	384
CONTRACT RATE PER HOUR	\$159.00	\$159.00	593 00	\$93.00	\$84.00	\$101.00	\$70.00	\$67.00	201
FOTAL LABOR COSTS	\$5,088.00	\$0.00	\$10.976 00	\$7,068.00	\$2,688.00	2808.00	\$6,720.00	\$1,736.00	\$35,084 00
SUBTOTAL (FC 120)				COOPERATE LINE TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWN					

Direct Expenses	Company of the Compan		
Photocopies Color (11° X 17°)	300	\$1.25	\$375.00
Photocopies BW (8 1/2* X 11")	1000	\$0.10	\$100.00
Photocopies Color (8 1/2" X 11")	100	\$0.75	\$75.00
Ste Forms		350 00	
Per Diem Wovernight stay	10	\$3500	\$150.00
Lodging	10	\$85.00	
Lodging tax	10	\$30.00	\$850.00
Minage	1400	\$0.575	\$300.00
Backhoe and Operator Rental	0	\$1,000,00	\$0.00
Overnight Mail - oversized box		\$30.00	
Overnight Mail - letter size		\$20.00	\$120.00
SUBTOTAL Direct Expenses		320,00	\$50.00 \$3,205.00

SUMMARY	
BLANTON NON-SALARY (OTHER ORECT EXPENSES)	\$3,205.00
BLANTON TOTAL LABOR COSTS	\$35.084.00
BLANTON TOTAL	\$38,289.00

\$25,25900

### EXHIBIT D DETAILED FEE SCHEDULE FOR ENGINEERING SVCS SUPPORTING LUMP SUM CALCULATIONS Attachment A-1

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				1	<u> </u>			1	2	\$ 293.7
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UBI-TOTAL - FOLIA- PROJECT PRANSEMENT (FC 127 DPC 150) FREE AND PROPE SERVICES (A MONTHS)   STATE SERVICES (A MONTHS)					-	-				
1				3	0	U	0	0	ь	\$ 838.1
STABLISH PRIMARY CONTROL NETWORK    1   1   3   5   6   6						-		-		
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1			+	1	1	+	<u> </u>		1	\$ 540.69
PREPARE PROJECT AND VERTICAL TIES TO THE EXISTING COUNTROL NETWORKS    1				1	<u> </u>	3			4	\$ 540.69
STABLISH SECONDARY CONTROL NETWORK				1		4			5	\$ 689.67
STABLISH SECONDARY CONTROL NETWORK    1   1   1   14   16   5				1		6				\$ 987.63
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PERFORM OF SETTAMEN HORIZONTAL TIES TO THE SECONDARY CONTROL, DOUBLE OCCUPANCY			1	1		14			16	\$ 2,336.25
STABLISH AERIAL TARGET NETWORK  SET APPROXIMATIEN (17) AERIAL PANEL POINTS  SET APPROXIMATIEN (17) AERIAL PANEL POINTS  SET APPROXIMATIEN (17) AERIAL PANEL POINTS  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS (50)  SET ABLISH NERTICAL VALUES ON THE WIND PANELS WITH GPBRITWARS WITH GPB									0	\$ -
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ESTABLISH VERTICAL VALUES ON THE WING PARLES WITH DIFFERENTIAL LEVELS (50)   1 2 4 1 12   1 3   1										\$ 2,085.72
DEVELOP AERIAL CONTROL REPORT FOR AERIAL PHOTOGRAMMETRY PROVIDER   1										\$ 1,787.76
C 150 - FIELD SURVEYING						12			12	\$ 1,787.70
C: 150 - FIELD SURVEYING UPPLEMENTAL TOPOGRAPHY    VERIFY ELEVATIONS OF CONTOURS (SPOT CHECK)	DEVELOP AERIAL CONTROL REPORT FOR AERIAL PHOTOGRAMMETRY PROVIDER	1	2	4				4		\$ 1,061.64
UPPLEMENTAL TOPGGRAPHY	FC 450 FIELD CHDVEVING				<del> </del>				0	\$
VERIFY ELEVATIONS OF CONTOURS (SPOT CHECK)   1   12   13   5   7   7   7   5   7   7   5   7   7			<del>-</del>	ļ	<del> </del>	<del>  -</del>				
PROPLIE AND CROSS-SECTION INTERSECTING STREETS FOR TIE INTO PROJECT   FIELD TIE ALL HARD SURFACES WHERE TIE-INS OCCUR AT DRIVEWAYS AND TURNOUTS   1   8   9   5				<del>                                     </del>	-	10	1			-
FIELD TIE ALL HARD SURFACES WHERE TIE-INS OCCUR AT DRIVEWAYS AND TURNOUTS  FIELD TIE ALL DRAINAGE FEATURES: SIDE DRAINS, CULVERTS, DITCHES, INLETS, MANHOLES, ETC.  FIELD TIE ALL DRAINAGE STRUCTURES: BRIDGES, BOX CULVERTS, ETC.  1				<u> </u>						\$ 1,881.5
FIELD TIE ALL DRAINAGE FEATURES: SIDE DRAINS, CULVERTS, DITCHES, INLETS, MANHOLES, ETC.  FIELD TIE ALL DRAINAGE STRUCTURES: BRIDGES, BOX CULVERTS, ETC.  THE PRODUCED TIME ALL TOPOGRAPHIC FEATURES HAVE BEEN LOCATED  PRODUCED TIME  TO STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TO FROM USE BY GEOTECHNICAL, ENVIRONMENTAL, ETC, SUB-CONSULTANTS  TO STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL					<del> </del>				9 7	\$ 1,285,5
HELD ITE ALL DRAINAGE HEAL LORAINAGE STRUCTURES: BRIDGES, BOX CULVERTS, DITCHES, INCETS, MANHOLES, ETC.    1	FIELD TIE ALL HARD SURFACES WHERE TIE-INS OCCUR AT DRIVEWATS AND TURNOUTS			<del> </del>		Ь		<u> </u>	-	\$ 987.63
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WALK SITE TO INSURE ALL TOPOGRAPHIC FEATURES HAVE BEEN LOCATED 2 6 8 10 \$ 8 \$ 10 \$ \$ \$ 10 \$ \$ \$ \$ 10 \$ \$ \$ \$ 10 \$ \$ \$ \$				1			1	<del></del>	7	\$ 987.63
PRODUCEDTM  2		<u> </u>	1		İ		1		<u> </u>	\$ 1,081,38
DIDITIONAL FIELD STAKING  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CENTERLINE AS REQUIRED FOR USE BY GEOTECHNICAL, ENVIRONMENTAL. ETC, SUB-CONSULTANTS  STAKE RIGHT-OF-WAY FOR FENCING (AS REQUIRED)  DEBUTE TO THE CONSULTANTS  STAKE RIGHT-OF-WAY FOR FENCING (AS REQUIRED)  DEBUTE TO THE CONSULTANTS  STAKE RIGHT-OF-WAY FOR FENCING (AS REQUIRED)  DEBUTE TO THE CONSULTANTS  STAKE RIGHT-OF-WAY FOR FENCING (AS REQUIRED)  DEBUTE TO THE CONSULTANTS  STAKE CENTERLINE AS REQUIRED FOR USE BY GEOTECHNICAL, ENVIRONMENTAL. ETC, SUB-CONSULTANTS  STAKE CENTERLINE AS REQUIRED FOR USE BY GEOTECHNICAL, ENVIRONMENTAL. ETC, SUB-CONSULTANTS  STAKE CENTERLINE AS REQUIRED FOR USE BY GEOTECHNICAL, ENVIRONMENTAL. ETC, SUB-CONSULTANTS  STAKE CENTERLINE AS REQUIRED FOR USE BY GEOTECHNICAL, ENVIRONMENTAL. ETC, SUB-CONSULTANTS  STAKE CENTERLINE AS REQUIRED FOR USE BY GEOTECHNICAL, ENVIRONMENTAL. ETC, SUB-CONSULTANTS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CENTERLINE AS REQUIRED TIE FINAL LOCATIONS  STAKE CENTERLINE AS REQUIRED TIE FINAL LOCATIONS  STAKE CENTERLINE AS REQUIRED TIE FINAL LOCATIONS  STAKE CENTERLINE AS REQUIRED TIE FINAL LOCATIONS  STAKE CENTERLINE AS REQUIRED TIE FINAL LOCATIONS  STAKE CENTERLINE AS REQUIRED TIE FINAL LOCATIONS  STAKE CENTERLINE AS REQUIRED TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOCATION TO TIE FINAL LOC			2		<del>                                     </del>	-	l B			\$ 953,8
STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CENTERLINE AS REQUIRED FOR USE BY GEOTECHNICAL, ENVIRONMENTAL. ETC, SUB-CONSULTANTS  STAKE CIGHT-OF-WAY FOR FENCING (AS REQUIRED)  SUB-TOTAL - FC 150 - FIELD SURVEYING  SUB-TOTALS  ABOR RATE PER HOUR  ABOR RATE PER HOUR  ABOR RATE PER HOUR  S 200.04 \$ 155.78 \$ 93.75 \$ 1.00 \$ 146.98 \$ 80.04 \$ 43.26							1	- 1		\$
STAKE CORE HOLES AND FIELD TIE FINAL LOCATIONS  STAKE CENTERLINE AS REQUIRED FOR USE BY GEOTECHNICAL, ENVIRONMENTAL. ETC, SUB-CONSULTANTS  STAKE CIGHT-OF-WAY FOR FENCING (AS REQUIRED)  SUB-TOTAL - FC 150 - FIELD SURVEYING  SUB-TOTALS  ABOR RATE PER HOUR  ABOR RATE PER HOUR  ABOR RATE PER HOUR  S 200.04 \$ 155.78 \$ 93.75 \$ 1.00 \$ 146.98 \$ 80.04 \$ 43.26	ADDITIONAL FIELD STAKING									*
STAKE CENTERLINE AS REQUIRED FOR USE BY GEOTECHNICAL, ENVIRONMENTAL. ETC, SUB-CONSULTANTS  STAKE RIGHT-OF-WAY FOR FENCING (AS REQUIRED)  STAKE RIGHT-OF-WAY FOR FOR FENCING (AS REQUIRED)  STAKE RIGHT-OF-WAY FOR FOR FENCING (AS REQUIRED)  STAKE RIGHT-OF-WAY FOR FOR FENCING (AS REQUIRED)  STAKE RIGHT-OF-WAY FOR FOR FENCING (AS REQUIRED)  STAKE RIGHT-OF-WAY FOR FOR FENCING (AS REQUIRED)  STAKE RIGHT-OF-WAY FOR FOR FENCING (AS REQUIRED)  STAKE RIGHT-OF-WAY FOR FOR FENCING (AS REQUIR		i	1			1	İ		0	s -
STAKE RIGHT-OF-WAY FOR FENCING (AS REQUIRED)  STAKE RIGHT-OF-WAY FOR FENCING (AS REQUIRED)  SUB-TOTAL -FC 150 - FIELD SURVEYING  SUB-TOTALS  ABOR RATE PER HOUR  ABOR RATE PER HOUR  SECULABOR COSTS  SOU.04 \$ 156,78 \$ 93.75 \$ 1.00 \$ 148,98 \$ 80.04 \$ 43.26  SUB-TOTAL  SOU.05 \$ 1,254.24 \$ 1,875.00 \$ - \$ 18,026,58 \$ 1,040,52 \$ 173,04 \$ 23,169,54  SUB-TOTAL  SOU.06 \$ 1,254.24 \$ 1,875.00 \$ - \$ 18,026,58 \$ 1,040,52 \$ 173,04 \$ 23,169,54  SUB-TOTAL  SOU.06 \$ 1,254.24 \$ 1,875.00 \$ - \$ 18,026,58 \$ 1,040,52 \$ 173,04 \$ 23,169,54  SUB-TOTAL  SOU.06 \$ 1,254.24 \$ 1,875.00 \$ - \$ 18,026,58 \$ 1,040,52 \$ 173,04 \$ 23,169,54  SUB-TOTAL  SOU.07 \$ 800.16 \$ 1,254.24 \$ 1,875.00 \$ - \$ 18,026,58 \$ 1,040,52 \$ 173,04 \$ 23,169,54  SUB-TOTAL SUB-TOTAL PROJECT (BASED ON FEE)  SOU.07 \$ 3,45% \$ 5,41% \$ 8,09% \$ 0.00% \$ 77,80% \$ 4,49% \$ 0.75% \$ 100,00%						6			6	\$ 893,88
## TOTAL - FC 150 - FIELD SURVEYING  ## FOURS SUB-TOTALS  ## ABOR RATE PER HOUR  ## ABOR RATE PER HOUR  ## ABOR RATE PER HOUR  ## BERCENT LABOR COSTS  ## B00.16 \$ 1,254.24 \$ 1,875.00 \$ - \$ 18,026.58 \$ 1,040.52 \$ 173.04 \$ 23,169.54 \$ 1,000				İ	İ					\$ .
ABOR RATE PER HOUR   \$ 200.04 \$ 156.78 \$ 93.75 \$ 1.00 \$ 148.98 \$ 80.04 \$ 43.26									0	\$ -
S   200.04   S   156,78   S   93.75   S   1.00   S   148.96   S   80.04   S   43.26	SUB-TOTAL - FC 150 - FIELD SURVEYING	2	7	17	0	121	13	4	164	\$ 22,331.4
S   800.16   \$   1,254.24   \$   1,875.00   \$   -   \$   18,026.58   \$   1,040.52   \$   173.04   \$   23,169.54	HOURS SUB-TOTALS	4	8	20	0	121	13	4	170	
S   800.16   \$   1,254.24   \$   1,875.00   \$   -   \$   18,026.58   \$   1,040.52   \$   173.04   \$   23,169.54	LABOR RATE PER HOUR	\$ 200.0	4 S 156.78	\$ 93.75	\$ 1.00	\$ 148.98	\$ 80.04	\$ 43.26		
S   S   S   S   S   S   S   S   S   S	DIRECT LABOR COSTS						THE RESERVE AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	THE RESERVE OF THE PARTY OF THE	\$ 23.169.54	
ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEE)         3.45%         5.41%         8.09%         0.00%         77.80%         4.49%         0.75%         100.00%           ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS)         2.35%         4.71%         11.76%         0.00%         71.18%         7.65%         2.35%         100.00%					i	1				
ERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOURS) 2,35% 4,71% 11.76% 0.00% 71.18% 7.65% 2,35% 100.00%										
(LABOR, CADD & DIRECT EXPENSE) \$ 23	GRAND-TOTAL	Marie Committee		A STATE OF THE PARTY OF THE PAR	3.0070	1 1110/5	7.0075	2,0070	The state of the s	\$ 23,169.54

SPECIAL SERVICES (FC 150) AERIAL PHOTOGRAMMETRY SERVICES TASK DESCRIPTION	Task Cost Lump Sum
FIELD SURVEYING PHOTOGRAMMETRY FC 150 - AERIAL MAPPING	·
<ul> <li>Establish, and monument, the project on NAD 1983, Texas State Plane (TX South Zone 4205)</li> <li>Coordinates System, US Survey feet, and, NAVD 88 (Geoid12A) Datum</li> </ul>	
<ul> <li>Fly, Scan and Photograph the project, (length of centerline and cross flights at major roads and creeks), and collect LiDAR data and imaginary using an Optech Orion C300-1 LiDAR sensor and CS-10000 aerial digital camera mounted in a Bell Long Ranger 206 helicopter</li> </ul>	
Post-process and Digitize data to PRODUCE AND DELIVER the following:  o Ortho-rectified images, 600' wide (300' both sides of project centerline), 7 cm pixel resolution in ECW format	
o DTM (Digital Terrain Model) file, 600' wide, (300' both sides of project centerline), consisting of spot elevations on a 50' grid, break-lines and edited 3d triangles	
o 1' (edited) 3d digital contour map/file. o 1"=50' scale digital 2d Planimetric features map/file	
o Deliverables will be delivered as .DGNs and .DTM file. Digitization and digital drawings will be developed using MicroStation V8i Series 3/4	
OTALS - AERIAL MAPPING SERVICES	\$20,000.00
. The mapping and ortho-imagery will be 600' wide (300' left and right) along the project centerline me of Flight line planning	e that Dannenbuam Engineering provides at
. All mapping will be developed in accordance to TxDOT Aerial Photogrammetric standards, requi	rements and accuracies
<ul> <li>All digital data and deliverables will be in the format compatible with TxDOT and Dannenbaum E tandards</li> </ul>	ngineering's hardware, software and drafting

#### **EXHIBIT H-2**

#### Subprovider Monitoring System Commitment Agreement

This commitment agreement is subject to the award and receipt of a signed contract from Webb County. NOTE: Exhibit H-2 is required to be attached to each contract that does not include work authorizations. Exhibit H-2 is required to be attached with each work authorization. Exhibit H-2 is also required to be attached to each supplemental work authorization. If DBE/HUB Subproviders are used, the form must be completed and signed. If no DBE/HUB Subproviders are used, indicate with "N/A" on this line: \_\_\_\_\_ and attach with the work authorization or supplemental work authorization. Contract #: CSJ: 0922-33-166 Assigned Goal: 0% Prime Provider <u>Dannenbaum Engineering Corporation</u> Work Authorization (WA)#: \_\_\_\_\_WA Amount: \_\$\_\_\_\_ Date: \_\_\_\_\_ Supplemental Work Authorization (SWA) #: \_\_\_\_\_ to WA #: \_\_\_\_\_ SWA Amount: \_\_\_\_\_ Revised WA Amount: Description of Work Dollar Amount (List by category of work or task description. Attach additional pages, if (For each category of work or task description necessary.) shown.) Total Commitment Amount (Including all additional pages.) IMPORTANT: The signatures of the prime and the DBE/HUB and Second Tier Subprovider, if any (both DBE and Non-DBE) and the total commitment amount must always be on the same page. Provider Name: Dannenbaum Engineering Corporation Name: Louis H. Jones Jr., P.E. Address: 8610 McPherson, Laredo, Texas 78040 (Please Print) Phone # & Fax #: PH: (956)712-9817; FX: (956)712-9857 Title: Principal Email: louis.jones@dannenbaum.com Signature DBE/HUB Sub Provider Name: Subprovider Name: (Please Print) VID Number: Address: Phone # & Fax #: PH: ; FX: Signature Date Email: Second Tier Sub Provider Name: Subprovider Name: (Please Print) VID Number: Address: Phone #& Fax #: Signature Date Email:

VID Number is the Vendor Identification Number issued by the Comptroller. If a firm does not have a VID Number, please enter the

owner's Social Security or their Federal Employee Identification Number (if incorporated).

CSJ: 0922-33-166

#### **EXHIBIT H-2**

### Texas Department of Transportation Subprovider Monitoring System Commitment Agreement

(TxDOT). NOTE: Exhibit H-2 is required to be attached to earequired to be attached with each work authorization. Exhauthorization. If <u>DBE/HUB Subproviders</u> are used, the form	ipt of a signed contract from the Texas Department of Transportation ach contract that does not include work authorizations. Exhibit H-2 is abilit H-2 is also required to be attached to each supplemental work in must be completed and signed. If no DBE/HUB Subproviders are with the work authorization or supplemental work authorization.
Contract #: 0922-33-166 Assigned Goal: 0% Prime	
Work Authorization (WA)#: 4 WA Amount: \$ 299,981.17	
Supplemental Work Authorization (SWA) #: to WA #:	SWA Amount:
Revised WA Amount:	
Description of Work (List by category of work or task description. Attach addit necessary.)	tional pages, if  (For each category of work or task description shown.)
FC 110 Route and Design Studies	\$115,133.60
Direct Expenses	\$ 1,551.53
:	, , , , , , , , , , , , , , , , , , ,
Total Commitment Amount (Including all additional	
IMPORTANT: The signatures of the prime and the DBE/HUE the total commitment amount must always be on the same page	3 and Second Tier Subprovider, if any (both DBE and Non-DBE) and
Provider Name: Dannenbaum Engineering Corporation Address: 3100 W. Alabama, Houston, TX 77098	Name: Louis H. Jones Jr., P.E.  (Please Print)
Phone # & Fax #: (713) 520-570	Trul
Email: louis.jones@dannenbaum.com	Title: Principal
	Signature Date
DBE/HUB Sub Provider	Name: Alfonso P. Garza, P.E.
Subprovider Name: Arredondo, Zepeda & Brunz, LLC	Name: Alfonso P. Garza, P.E. (Please Print)
VID Number: 1432072424900	
Address: 11355 McCree Rd	Title: President
Dallas, TX 75238	1/10/2017
Phone # (214) 341-9900 & Fax #: (214) 341 9925;	Signature Date
Email: agarza@azb-engrs.com	
Second Tier Sub Provider	Name:
Subprovider Name:	(Please Print)
VID Number:	Title:
Address:	Title,
Phone #& Fax #:	Signature Date
Email:	
VID Number is the Vendor Identification Number issued by the Coowner's Social Security or their Federal Employee Identification Number	mptroller. If a firm does not have a VID Number, please enter the

CSJ: 0922-33-166

#### **EXHIBIT H-2**

### Texas Department of Transportation Subprovider Monitoring System Commitment Agreement

(TxDOT). NOTE: Exhibit H-2 is required to be attached to ear required to be attached with each work authorization. Exhi- authorization. If DBE/HUB Subproviders are used, the form	of a signed contract from the Texas Department of Transportation ch contract that does not include work authorizations. Exhibit H-2 is libit H-2 is also required to be attached to each supplemental work a must be completed and signed. If no DBE/HUB Subproviders are with the work authorization or supplemental work authorization.						
Contract #: 0922-33-166 Assigned Goal: 0% Prime Provider: Dannenbaum Engineering Corporation							
Work Authorization (WA)#: 4 WA Amount: \$ 299,981.17	Date: January 9, 2017						
Supplemental Work Authorization (SWA) #: to WA #: SWA Amount:							
Revised WA Amount:							
	Dellan Amount						
Description of Work (List by category of work or task description4 ttach addit necessary.)	ional pages, if  (For each category of work or task description shown.)						
FC 150 Field Surveying	\$20,000.00						
Total Commitment Amount (Including all additional pages.) \$20,000.00							
IMPORTANT: The signatures of the prime and the DBE/HUB and Second Tier Subprovider, if any (both DBE and Non-DBE) and the total commitment amount must always be on the same page.							
Provider Name: Dannenbaum Engineering Corporation Address: 3100 W. Alabama, Houston, TX 77098	Name: Louis H. Jones Jr., P.E. (Please Print)						
Phone # & Fax #: (713) 520-570	Title: Principal						
Email: louis.jones@dannenbaum.com	Signature Date						
DBE/HUB Sub Provider	Name: Doug Ward						
Subprovider Name: Aerial Data Services, Inc.	(Please Print)						
VID Number: 1730954344900	Title: Vice President						
Address: 8301 E 51st St #100,	Many Ward 1/10/2017						
Tulsa, OK 74145	Signature Date						
Phone # (918) 622-4144 & Fax #:							
Email: dward@aerialdata.com							
Second Tier Sub Provider	Name:						
Subprovider Name:	(Please Print)						
VID Number:	Title:						
Address:	,						
Phone #& Fax #:	Signature Date						
Email							
VID Number is the Vendor Identification Number issued by the Comptroller. If a firm does not have a VID Number, please enter the owner's Social Security or their Federal Employee Identification Number (if incorporated).							

CSJ: 0922-33-166

#### **EXHIBIT H-2**

### Texas Department of Transportation Subprovider Monitoring System Commitment Agreement

This commitment agreement is subject to the award and receipt of a signed contract from the Texas Department of Transportation (TxDOT). NOTE: Exhibit H-2 is required to be attached to each contract that does not include work authorizations. Exhibit H-2 is required to be attached with each work authorization. Exhibit H-2 is also required to be attached to each supplemental work authorization. If DBE/HUB Subproviders are used, the form must be completed and signed. If no DBE/HUB Subproviders are used, indicate with "N/A" on this line: and attach with the work authorization or supplemental work authorization.						
Contract #: <u>0922-33-166</u> Assigned Goal: <u>0%</u> Prime						
Work Authorization (WA)#: 4 WA Amount: \$ 299,981.17		anuary 9, 2017				
Supplemental Work Authorization (SWA) #: to WA #:		A Amount:				
Revised WA Amount:		1 / Milouiti				
Description of Work  (List by category of work or task description. Attach additional necessary.)	Dollar Amount (For each category of work or task description shown.)					
FC 120 Social, Economic and Environmental Studies and Pr	whlie					
Involvement	попс	\$35,084.00				
Direct Expenses		\$ 3,205.00				
Total Commitment Amount (Including all additional		\$38,289.00				
IMPORTANT: The signatures of the prime and the DBE/HUB the total commitment amount must always be on the same page.	and Second Tier S	ubprovider, if any (both DBE and Non-DBE) and				
Provider Name: Dannenbaum Engineering Corporation Address: 3100 W. Alabama, Houston, TX 77098 Phone # & Fax #: (713) 520-570	Louis H. Jones Jr., P.E. (Please Print)					
Email: louis.jones@dannenbaum.com		Principal  //2// Signature  Date				
DBE/HUB Sub Provider Subprovider Name: Blanton & Associates, Inc.	Name:	Don Blanton				
VID Number: 17428458388	Par	(Please Print)				
Address: 5 Lakeway Centre Court, Suite 200	Title:	Sipon T				
Austin, Texas 78734	An T	Elenh 1/10/17				
Phone # & Fax #: (512) 264-1095; (512) 284-1531		Signature Daté				
Email: dblanton@blantonassociates.com						
Second Tier Sub Provider						
Subprovider Name:	Name:	(Please Print)				
VID Number:	TP241	,				
Address:	Title:					
Phone #& Fax #:		0'				
Email:		Signature Date				
VID Number is the Vendor Identification Number issued by the Comptroller. If a firm does not have a VID Number, please enter the owner's Social Security or their Federal Employee Identification Number (if incorporated).						