THE STATE OF TEXAS

§

COUNTY OF CAMERON

§

BE IT REMEMBERED on the 14th day of July 2016, there was conducted a Regular Meeting of the Cameron County Regional Mobility Authority, at the Joe G. Rivera and Aurora de la Garza County Annex thereof, in San Benito, Texas, for the purpose of transacting any and all business that may lawfully be brought before the same.

THE BOARD MET AT:	PRESENT:
12:00 Noon	FRANK PARKER, JR. CHAIRPERSON
	RUBEN GALLEGOS, JR. DIRECTOR
	DAVID N. GARZA DIRECTOR
	DIRECTOR
	MARK ESPARZA DIRECTOR
	NAT LOPEZ DIRECTOR
	DIRECTOR MICHAEL F. SCAIEF
	ABSENT
	HORACIO BARRERA ABSENT
	ABSENT

The Meeting was called to order by Chairman Frank Parker, Jr., at 12:04 P.M. At this time, the Board considered the following matters as per RMA Agenda posted and filed for Record in the Office of the County Clerk on this 11th day of July 2016 at 10:25 A.M.



AGENDA

Regular Meeting of the Board of Directors of the Cameron County Regional Mobility Authority

Joe G. Rivera and Aurora de la Garza County Annex 1390 West I69E San Benito, Texas 78586

Thursday, July 14, 2016

12:00 Noon

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS
On: Jul 11,2016 at 10:25A

Document Number:

00000329

Salvia Garza-Perez Counta Clerk Ba Hilda Perez, Deputa Cameron Counta

PUBLIC COMMENTS:

1. Public Comments

PRESENTATIONS, RESOLUTIONS AND/OR PROCLAMATION ITEMS:

- 2. Presentations/Resolutions/Proclamations
 - A. Presentation of the GEC Report for the months of May and June 2016
 - B. Presentation of the Marketing Efforts for the Month of June 2016

CONSENT ITEMS:

- 3. All Item(s) under the Consent RMA Agenda are heard collectively unless opposition is presented, in which case the contested Item will be considered, discussed, and appropriate action taken separately
 - A. Consideration and Approval of the Minutes for:

June 16, 2016 - Special Meeting

B. Consideration and Approval of Financial Services Agreement between the Cameron County Regional Mobility Authority and Estrada Hinojosa & Company, Inc.

ITEMS FOR DISCUSSION AND ACTION:

- 4. Action Items
 - A. Approval of Claims
 - B. Consideration and Approval of the Financial Statements and Budget Amendments for the month of June 2016
 - C. Consideration and Approval of Work Authorization No. 5 between the Cameron County Regional Mobility Authority and S&B Infrastructure for the Outer Parkway Project

- D. Consideration and Approval of Work Authorization No. 7 between the Cameron County Regional Mobility Authority and S&B Infrastructure for Environmental Services for the Spur 54 Project from Chester Park Road to I-69E
- E. Consideration and Approval of Phase IV of Task Order 1602 Back Office System Implementation with Fagan Consulting
- F. Consideration and Approval of Countywide TRZ Consulting Services with TXP Inc.
- G. Consideration and Approval of emergency repairs on SH 550

EXECUTIVE SESSION:

- 5. Executive Session
 - A. Confer with Legal Counsel regarding Cameron County Regional Mobility Authority vs. MCMD Limited Partnership, Cause No. 2012-CCL-931, authority to hire outside counsel, the legal status of the case, the handling of the case and legal issues pertaining thereto, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.071(1)(A) (B) and (2)
- 6. Action Relative to Executive Session
 - A. Possible Action

ADJOURNMENT:

Signed this 11th day of July 2016

Frank Parker, Jr.

Chairman

NOTE:

Participation by Telephone Conference Call — One or more members of the CCRMA Board of Directors may participate in this meeting through a telephone conference call, as authorized by Sec. 370.262, Texas Transportation Code. Each part of the telephone conference call meeting that by law must be open to the public shall be audible to the public at the meeting location and will be recorded. On conclusion of the meeting, the recording will be made available to the public.

PUBLIC COMMENTS

1 PUBLIC COMMENTS

None were presented.

PRESENTATIONS, RESOLUTIONS AND/OR PROCLAMATION ITEMS

2-A Presentation of the GEC Report for the months of May and June 2016

Ms. Katie Nees with HNTB went over the Reports with the Board. Specifically went into detail on the SPI 2nd Access Project.

Vice Chair Gallegos moved to approve the GEC Report for the months of May and June 2016. The motion was seconded by Director Esparza and carried unanimously.

The Report is as follows:

2-B Presentation of the Marketing Efforts for the month of June 2016

Mrs. Michelle Lopez, RMA Marketing and Communications Director went over a status report for the month of June 2016. The report is attached.

Vice Chair Gallegos moved to acknowledge the Marketing Report for June 2016. The motion was seconded by Director Esparza and carried unanimously.

The Report is as follows:

CONSENT ITEMS

ALL ITEM(S) UNDER THE CONSENT RMA AGENDA ARE HEARD COLLECTIVELY UNLESS OPPOSITION IS PRESENTED, IN WHICH CASE THE CONTESTED ITEM WILL BE CONSIDERED, DISCUSSED AND APPROPRIATE ACTION TAKEN SEPARATELY

3-A Consideration and Approval of the Minutes for:

June 16, 2016 - Special Meeting

Vice Chair Gallegos moved to approve the minutes of June 16, 2016 Special Meeting. The motion was seconded by Director Esparza and carried unanimously.

3-B Consideration and Approval of Financial Services Agreement between the Cameron County Regional Mobility Authority and Estrada Hinojosa & Company, Inc.

Secretary Garza moved to **TABLE** this item. The motion was seconded by Vice Chair Gallegos and carried unanimously.

ACTION ITEMS

4-A Approval of Claims

The attached claims were presented to the Board of Directors for approval.

Mr. Adrian Rincones, RMA Controller and Financial Officer introduced the claims into the record and recommended approval of the Claims.

Director Esparza moved to approve the Claims. The motion was seconded by Vice Chair Gallegos and carried unanimously.

The Claims are as follows:

4-B Consideration and Approval of the Financial Statements and Budget Amendments for the month of June 2016

Mr. Adrian Rincones, RMA Controller and Financial Officer went over the attached Financial Statements for the month of June 2016.

Director Esparza moved to approve the Financial Statements for the month of June 2016. The motion was seconded by Secretary Garza and carried unanimously.

The Financial Statements are as follows:

4-C Consideration and Approval of Work Authorization No. 5 with S&B Infrastructure for the Outer Parkway Project

Mr. Pete Sepulveda, Jr., RMA Executive Director went over the item with the Board. Mr. Sepulveda went over the attached memorandum with the Board. Mr. Sepulveda mentioned that TxDOT had revised and approved the scope and fee. TxDOT Toll Equity Funds will be used for this Work Authorization.

Secretary Garza moved to approve Work Authorization No. 5 with S&B Infrastructure for the Outer Parkway Project. The motion was seconded by Director Esparza and carried unanimously.

The Work Authorization is as follows:

4-D Consideration and Approval of Work Authorization No. 7 between the Cameron County Regional Mobility Authority and S&B Infrastructure for Environmental Services for Spur 54 from Chester Park Road to I-69E

Mr. Pete Sepulveda, Jr., RMA Executive Director went over this item and the need for the Work Authorization. Mr. Sepulveda showed the Board a map indicating the project limits. Mr. Sepulveda mentioned that the City of Harlingen would do the engineering and TxDOT would fund the construction.

Secretary Garza moved to approve Work Authorization No. 7 between the Cameron County Regional Mobility Authority and S&B Infrastructure for Environmental Services for Spur 54 from Chester Park Road to I-69E. The motion was seconded by Director Esparza and carried unanimously.

The Work Authorization is as follows:

4-E Consideration and Approval of Phase IV of Task Order 1602 Back Office System Implementation with Fagan Consulting

Mr. Adrian Rincones, RMA Controller and Financial Officer went over the item and explained to the Board the need for approval of this Task Order and informed them that this would serve as the final phase of the implementation of the Back Office System. (see attached memorandum)

Director Lopez moved to approve Phase IV of Task Order 1602 Back Office System Implementation with Fagan Consulting. The motion was seconded by Secretary Garza and carried unanimously.

The Task Order is as follows:

4-F Consideration and Approval of Countywide TRZ Consulting Services with TXP Inc.

Mr. Adrian Rincones, RMA Controller and Financial Officer went over the need to have TXP Inc. provide consulting services regarding the Countywide Transportation Reinvestment Zone (see attached memorandum).

Secretary Garza moved to approve Countywide TRZ Consulting Services with TXP Inc. The motion was seconded by Vice Chair Gallegos and carried unanimously.

The Agreement and Memo are as follows:

4-G Consideration and Approval of emergency repairs on SH 550

Mr. Pete Sepulveda, Jr., RMA Executive Director informed the Board that SH 550 has been in need of erosion repairs and maintenance for some time including signs of deterioration as far back as 2014 in areas of the Port Spur Project. Mr. Sepulveda further detailed other issues regarding heavy rains and lack of vegetation causing erosion within SH 550 (see attached report). Mr. Sepulveda mentioned that Legal Counsel Brian Cassidy had reviewed the certification for legal sufficiency.

Vice Chair Gallegos moved to approve the emergency repairs on SH 550. The motion was seconded by Secretary Garza and carried unanimously.

The Report is as follows	•

EXECUTIVE SESSION ITEMS

The Board did not go into Executive Session.

EXECUTIVE SESSION:

5-A Confer with Legal Counsel regarding Cameron County Regional Mobility Authority vs. MCMD Limited Partnership, Cause No. 2012-CCL-931, authority to hire outside counsel, the legal status of the case, the handling of the case and legal issues pertaining thereto, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.071(1)(A) (B) and (2).

ACTION RELATIVE TO EXECUTIVE SESSION:

6-A Confer with Legal Counsel regarding Cameron County Regional Mobility Authority vs. MCMD Limited Partnership, Cause No. 2012-CCL-931, authority to hire outside counsel, the legal status of the case, the handling of the case and legal issues pertaining thereto, pursuant to Vernon Texas Code Annotated (V.T.C.A.), Government Code, Section 551.071(1)(A) (B) and (2).

Vice Chair Gallegos moved to **TABLE** the item. The motion was seconded by Secretary Garza and carried unanimously.

ADJOURNMENT

There being no further business to come before the Board and upon motion by Director Esparza and seconded by Vice Chairman Gallegos and carried unanimously the meeting was **ADJOURNED** at 1:07 P.M.

APPROVED this

2016

CHAIRMAN FRANK PARKER ID

ATTESTED:

SECRETARY DAVID N. GARZA

2-A PRESENTATION OF THE GEC REPORT FOR THE MONTHS OF MAY AND JUNE 2016

Pete Sepulveda, Jr. Executive Director Cameron County Regional Mobility Authority 3461 Carmen Avenue Rancho Viejo, Texas 78575



June 1, 2016

Dear Mr. Sepulveda,

The following is a summary of our progress on the subject projects for the month of May 2016.

Project Management:

General GEC

- Prepared & submitted CCRMA GEC Invoice for work performed on various Work Authorizations from Previous Contract (PC) and Current Contract (CC). Updated and submitted April 2016 GEC report.
- On May 12th, Richard Ridings and Greg Garcia attended the Regular Meeting of the CCRMA Board of Directors.
- Assisted CCRMA Controller on activities involving reporting and documentation of invoicing, progress reports and other accounting/billing matters.

South Padre Island Second Access Phase 3A & 3B (PC - Work Authorization No. 17 and CC - Work Authorization No. 2):

This Work Authorization provides engineering and environmental services associated with the development and advancement of the NEPA process for the proposed South Padre Island (SPI) 2nd Access Project in Cameron County, Texas. The proposed Project will provide an alternate route to the Queen Isabella Memorial Causeway; thus, enhancing local and regional mobility, and facilitating effective evacuation of the island in times of disaster, hurricanes, and other emergencies. This Work Authorization continues the environmental and schematic design tasks necessary on the Recommended Preferred Alternative to advance the project to a Record of Decision (ROD).

- HNTB continues to provide assistance and information to CCRMA Board and staff, members of the general public and stakeholders.
- Coordination, including weekly meetings, with TxDOT Pharr District, TxDOT ENV and FHWA has been on-going regarding the FEIS tasks.
- Submitted the 100% submittal package (i.e. typical sections, geometric design, preliminary cross sections, preliminary traffic control, 3D modeling, and schematic plan preparation, preliminary construction cost estimate, hydrology, hydraulic studies, drainage design and preliminary bridge layouts) to TxDOT for their review on 11/2. Coordinating with subconsultants to address TxDOT comments.
- Revised master design schedule and submitted to subconsultants for review.

- Continued coordination with subconsultants on geotechnical services.
- Summary report of Context Sensitive Solutions (CSS) workshops and survey results are complete.
- First draft of Final EIS (12/23/2014) has been revised. Backcheck review and comment by CCRMA, TxDOT-ENV and TxDOT-Pharr is complete. FHWA-HQ comments received 11/16/2015 and revisions are complete. Submittal #3 (Resource Agency Review) was submitted 1/21/2016. USACE comments received 03/30/16. USCG, NMFS and USFWS comments pending.
- Coordinated with subconsultants on FEIS and permitting tasks. Preliminary Jurisdictional Determination (PJD) submitted 9/29/15. USACE field verification completed 2/18/16. Approved PJD received 3/21/16. Individual Permit Application (IP) in preparation.
- Responses to TxDOT and FHWA comments on the Seagrass Survey, Wetland Delineation Report have been approved by resource agencies and complete. Vegetation and Habitat Report with Biological Evaluation Form (BE Form) have been submitted to TPWD. Approval pending rview of FEIS. Essential Fish Habitat Report was submitted for agency review (NMFS) 9/24/15. Review is in progress and comments expected early May, 2016. Biological Assessment (BA) and Sea Grass Mitigation Plan were submitted to USFWS and NOAA on 8/17/15, respectively. Reviews are in progress.
- Coordination with CCRMA, TxDOT, USFWS and Conservation Fund on potential impacts to Migratory Bird Conservation Lands has been completed. Section 4(f) Determination Package, including survey and documentation requirements were prepared and submitted to FHWA. A Final 4(f) determination was received from FHWA 11/5/15 and clearance was given to proceed with early acquisition of 2.78 acres of property needed for ROW. Transaction transferring property to Cameron County was executed and deed recorded 12/18/15.
- Progressed contracting and coordination with the following subconsultants: SWCA completed remaining archeological work and received concurrence from THC. SWCA has revised the BA for TxDOT, TxDOT-ENV and FHWA comments and submitted the revised Draft BA. The revised Draft BA was submitted to TxDOT and FHWA for back-check on 6/25 and 6/30, respectively. Revised BA (terrestrial) submitted to USFWS 8/17. Revised BA (aquatic) submitted to NMFS-PRD 8/17. USFWS comments received 9/18 and internal comment workshop held 10/12 with TxDOT-Pharr, TxDOT-ENV, HNTB and SWCA. BA revisions in progress in preparation for FHWA-HQ review. Joint USFWS/Project team comment resolution meeting held 3/9. Joint Engineering/Environmental Technical Workshop held 3/23 to consider USFWS comments that may require schematic revisions. BA revisions in progress for resubmittal to USFWS. Executive Committee was convened 3/24 to discuss USFWS comments and other issues affecting schedule. Revised BA (aquatic) review in progress at NMFS-PRD. Belaire Environmental has submitted a Draft Sea Grass Mitigation Plan for TxDOT and FHWA review on 7/7. Belaire Environmental has completed modeling necessary to validate plan. TxDOT-Pharr and TxDOT-ENV comments on Seagrass modeling report resolved in workshop 10/20. Revised report received 10/30. Now beginning scoped pilot studies and permit coordination with USACE, TPWD and GLO. Application for Nationwide Permit 27 submitted 2/26/16 and coordination with USACE is in progress. Nationwide 27 approved 4/25/16. GLO and TPWD approvals pending. USCG Private Aids to Navigation application being prepared. TxDOT Comments on pilot studies addressed and revised Seagrass Mitigation plan was presented at December 1 USACE Joint Evaluation Meeting (JEM). Plan being revised per JEM comments. Target date for installation of Pilot Study now 6/1/16. Wetland Mitigation Plan was submitted for agency review 11/9/15 and was also discussed at December 1 JEM. Preliminary Jurisdictional

Determination submitted to USACE 9/29/15 and approved PJD received 3/21/16. NMFS review of Essential Fish Habitat Assessment currently in progress.

Olmito Switch Yard & Repair-In-Place Facility (PC - Work Authorization No. 31)

This work authorization provides engineering services throughout the construction duration of the Olmito Switch Yard and Repair-In-Place (RIP) Facility by providing responses to the contractor's Requests for Information, Shop Drawing Review and As-Built construction plans.

• HNTB is assisting with the completion and close out of this project.

West Rail Bypass, CI (PC - Work Authorization No. 33)

This work authorization provides professional services associated with construction inspection phase work for the West Rail Bypass.

• HNTB is assisting with the completion and close out of this project.

Outer Parkway Study (CC - Work Authorization No. 3)

This work authorization provides professional services and deliverables associated with a study for the Outer Parkway. The study is to be performed in a three phase effort to deliver a schematic design for the Outer Parkway project. The phases are:

- TxDOT, CCRMA, and HNTB personnel met to discuss the supplemental work authorization for the Environmental Assessment and Route Studies. The meeting was held at the Joe G. Rivera and Aurora de la Garza County Annex on October 8th. HNTB and TxDOT discussions on-going regarding CDA vs. non-CDA scope needed.
- Classification Letter was signed by TxDOT ENV on February 3rd concurring that the project be classified as an EA and that preparation of an EIS is not required.

SH 32 GEC Preliminary Schematic and Environmental Approval (CC - Work Authorization No. 5)

This work authorization provides professional services for oversight, guidance, agency coordination, and issue resolution, necessary to expedite the preliminary development phases of these two SH 32 projects only. The two projects, which each have logical termini and independent utility, extend from US 77/83 to FM 3068 (herein referred to as SH 32-West) and from FM 3068 to SH 4 (herein referred to SH 32-East). The proposed projects are being developed by two prime subconsultants, (S&B Infrastructure, Ltd. and Traffic Engineers, Inc.) under the oversight of HNTB (GEC).

SH 32 West (Consultant - Traffic Engineers, Inc., or TEI):

- Continued project coordination with TEI.
- Archeological field was completed and report writing is underway.
- Coordinated with TxDOT and USFWS to modify land swap below 40 acres. Exhibit was submitted to TxDOT on 5/26.
- Continued coordination with subconsultant, TxDOT and USFWS to discuss EA and 4(f) requirements for documentation for land swap.

- TxDOT, subconsultants, and HNTB personnel met to discuss IBWC and USFWS coordination next steps, meeting was held via conference call on October 14th.
- Awaiting revised BA and EA from TEI to include impacts to levee relocation and USFWS refuge impacts of approximately 40 acres.
- HNTB is working with subconsultant and TxDOT to revise schedule.
- HNTB coordinated with TEI to identify needs to move project forward and dates deliverables expected.

SH 32 East (Consultant - S&B Infrastructure, Ltd., or S&B):

- Continued project coordination with S&B.
- Biological Assessment was revised per TxDOT comments, reviewed by the GEC and resubmitted to the TxDOT Pharr District for back check.
- Submitted schematic GEC comments to subconsultant on 5/27.
- Submitted EA GEC/TxDOT comments to subconsultant on 5/28.
- HNTB back checked S&B EA revisions and resubmitted for ENV review on 9/30/2015.
- HNTB held conference call on 10/29/15 with ENV to discuss review status of EA review.
- HNTB received additional EA comments from ENV on 12/3, the comments were submitted to the subconsultant on 12/4.
- S&B submitted revised EA for GEC internal review on 3/4/2016. GEC completed back check and provided comments to S&B on 3/15/2016.
- HNTB back checked S&B EA revisions and resubmitted for ENV review on 4/1/2016.
- Biological Evaluation Form was reviewed by HNTB and submitted to ENV for review on 4/13/2016.
- HNTB working with subconsultant and TxDOT to revise schedule.
- TxDOT, HNTB, and S&B held a meeting on 5/9/2016 to discuss the remaining comments for the EA document and Biological Evaluation Form. S&B is working on addressing the remaining TxDOT comments.

West Rail Bridge - RFI/Shop Drawings Review and CEI for Security Fencing, Gate, Illumination, and DHS Building Components (US portion of bridge only) (PC - Work Authorization No. 69)

- HNTB attended the "soft opening" held on 8/7 which commemorated UPRR's first train crossing into Mexico using the new bridge. UPRR ran their last train into Mexico on the B&M on 8/6.
- HNTB attended the "grand opening" held on 8/25 which included dignitaries from both the U.S. and Mexico.
- Continue to review and forward contractor's submittals.
- The contractor continues working on the final punch list items.
- Continue to perform site visits to verify completion of final punch list items.

Consultant Management:

• Project was completed and opened to traffic on June 4, 2015 at 4:00 p.m. The 30 day no toll introduction was completed on July 4, 2015.

Agency Coordination:

 Conducted ongoing discussions with CCRMA staff, TxDOT staff and subconsultants for preparation of SPI 2nd Access project (see specifics above), Outer Parkway, Olmito Switch Yard Repair-In-Place Facility construction project, West Rail construction project, SH 32 East Loop EAs and other miscellaneous items.

Best regards,

Richard L. Ridings, P.E.

Vice President

cc: Carlos Lopez, P.E.

HNTB

Project		South Padre Island Phase 3A & 3B		
Work Authorization	17		WA Cost:	\$ 2,965,831.00
Supplemental	2	Affected Env & Env Consequences	SA Cost:	\$ 165,885.00
Supplemental	3	Affected Env & Env Consequences	SA Cost:	\$ 415,622.00
Supplemental	4	Affected Env & Env Consequences	SA Cost:	\$ 109,870.00
Supplemental	6	Affected Env & Env Consequences	SA Cost:	\$ 166,668.00
Supplemental	7	Affected Env & Env Consequences	SA Cost:	\$ 40,290.00
Supplemental	8	Affected Env & Env Consequences	SA Cost:	\$ 59,094.00
Supplemental	9	Affected Env & Env Consequences	SA Cost:	\$ 37,334.00
Supplemental	10	Affected Env & Env Consequences	SA Cost	\$ 4,488,102.00
Supplemental	11	Affected Env & Env Consequences	SA Cost	\$ 118,256.00
Supplemental	12	Affected Env & Env Consequences	SA Cost:	\$ 15,827.00
Supplemental	13	Affected Env & Env Consequences	SA Cost:	\$ 244,621.00
Supplemental	14	Affected Env & Env Consequences	SA Cost	\$ 818,241.00
			Total Cost:	\$ 9,645,641.00

Description: This Work Authorization provides engineering and environmental services associated with the development and advancement of the NEPA process for the proposed South Padre Island (SPI) 2nd Access Project in Cameron County, Texas. The proposed Project will provide an alternate route to the Queen Isabella Memorial Causeway; thus, enhancing local and regional mobility, and facilitating effective evacuation of the island in times of disaster, hurricanes, and other emergencies. This Work Authorization continues the engineering and environmental tasks necessary to advance the project to a schematic design of the Recommended Preferred Alternative, FEIS and ultimately to a Record of Decision (ROD).

Scope: Prepare schematic, FEIS and Surveying

Deliverable: Project administration and coordination, schematic design of the Recommended Preferred Alternative, VE study, toll facility study, interim financial and project management plan, base and soil testing and core drilling, traffic forecasting, traffic operational study, PI, CSS, FEIS, Record of Decision (ROD) and surveying

Project Activity

Coute and Design Stu	dies							
Status:	Ongoing.							
Recent Activity:	Submitted 100% submittal package to TxDOT on 11/2, continued to coordinate with subconsultants on financial plan.							
Upcoming Activity:	Coordination	Coordination with subconsultant on addressing 100% submittal comments and financial plan.						
Outstanding Issues:	None.							
Social, Environmental	and Economi	c Studies						
Status:	Ongoing.							
Recent Activity:	Continued work on SWA #10 activities, including weekly meetings with TxDOT and FHWA. Seagrass, wetland, vegetation archeological surveys are under TxDOT review. Coordinated marine archeology work required to review additional anomalies. Coordinated with the USACE regarding potential relocation of the channel. Meet with GIWW user groups. Presented calculations of indirect effects on seagrasses. Coordination with sub-consultants.							
Upcoming Activity:	Continue wo	rk on SWA #10 ac	tivities.					
Outstanding Issues:	None.							
ield Surveying and Pi		у						
Status:	Completed							
Recent Activity:								
Upcoming Activity:								
Outstanding Issues:								
		Task		Status	Date of Anticipated Completion	% Complete		
Route and Design Stud	dies		Ĭ	Ongoing	6/30/2016	95%		
Social, Environmental	and Economi	c Studies		Ongoing	6/30/2016	95%		
ield Surveying and Pl	notogrammetr	У		Completed	6/30/2016	100%		
				Completed	0/30/2010	10078		
WA Amount:	\$	9,645,641.00	Outstanding Invoice Number	Days Old	Invoice	Amount		
Billed To Date:	\$	9,430,334.59	125-40619-PL-017	42	\$	22,441.51		
Paid To Date:	\$	9,396,672.83	126-40619-PL-017	14	\$	11,220.2		
Unpaid Balance:	\$	33,661.76						
Funding Source:								
				Т	otal: \$	33,661.76		



Project	<u> </u>	SH 32 GEC				
Work Authorization	49 S	SH 32 GEC		WA Cost:	\$	1,961,997.00
Supplemental	1 5	SH 32 GEC		SA Cost:	\$	18,277.00
Supplemental	2 S	SH 32 GEC		SA Cost:	\$	243,639.00
				Total Cost:	\$	2,223,913.00
Description: This wor	rk authoriza	ation provides professiona	al services for oversight, qui	dance, agency coordination, ar		
expedite the prelimina utility, extend from US	ry develop 77/83 to F	ment phases of these two M 3068 (herein referred t	SH 32 projects only. The to as SH 32-West) and from	wo projects, which each have I FM 3068 to SH 4 (herein referi nd Traffic Engineers, Inc.) under	ogical termini and red to SH 32-Eas	d independent t). The proposed
The environmental as:	sessments	are being prepared by oti	her firms.	of two environmental assessm	ents being prepa	red for SH 32.
Deliverable: Meeting	notes, sch	edules, document review	s, permitting strategies.			
			Project Activity			
East Loop EA	On going	SH 32 West EA prepare	d. SH 32-East EA prepared			
Status.		ted SH 32 East EA for rev				
Recent Activity:						
Upcoming Activity:	Continued	coordination with subcon	sultants, TxDOT and agend	ies on schematics and environ	mental document	S.
Outstanding Issues:	None					
		Task		Status	Date of Anticipated Completion	% Complete
East Loop EA						
Project Management a Route and Design Stu-	ver and the second second	nation		Ongoing	12/31/2015	97.5%
Social. Environmental		omic Studies		Ongoing Ongoing	12/31/2015 12/31/2015	97.5% 97.5%
Coolai, Environmentar	una Econo	inio otadico		Origonia	12/31/2013	91.570
WA Amount:	\$	2,223,913.00	Outstanding Invoice Number	Days Old	Invoice	Amount
Billed To Date:	\$	2,223,913.00				
Paid To Date:	\$	2,223,913.00				
Unpaid Balance:	\$					
Funding Source:						
				Total:	\$	



Project	South Padre Island S	econd Access	_		
Work Authorization	2 Route Studies and E	nvironmental	. WA Cost:	\$	26,444.00
Supplemental	1 Environmental Proce	ss Completion	SA Cost:	\$	225,575.00
Supplemental	2 Environmental Proce	ss Completion	SA Cost:	\$	325,212.13
Supplemental	3 Environmental Proce	\$	120,943.02		
Supplemental	4 Environmental Proce	ss Completion	SA Cost:	\$	200,382.02
Supplemental	5 Environmental Proce	ss Completion	SA Cost:	\$	516,093.83
			Total Cost:	\$	1,414,650.00
Description: The South	Padre Island Second Access	project provides engine	ering and environmental services a		
and advancement of the	National Environmental Polic	y Act (NEPA) process. 1	The tasks associated with the proje and related public involvement acti	ct will include the	•
Scope: Develop Route	and Design, Environmental, F	ublic Involvement, Field	Surveying and Photogrammetry st	udies.	
approved in Phase 2. typical sections and lay	Preliminary Study Methodolog	gy Memorandum. Draft a alternatives. Draft techr		outs. Draft and f	inal conceptual
Route and Design Studi	es	Project Activ	rity		
	See 40619-PL-017			The second secon	The state of the s
Recent Activity:					
Upcoming Activity:					
Outstanding Issues:					
Social, Environmental a	nd Economic Studies See 40619-PL-017				
Recent Activity:	3ee 40013-F L-017				
Upcoming Activity:					
Outstanding Issues:					
Field Surveying and Pho					
	See 40619-PL-017				
Recent Activity:					
Upcoming Activity:					
Outstanding Issues:	Task		Status	Date of Anticipated Completion	% Complete
Route and Design Studi	es		Ongoing	6/30/2016	25%
Social, Environmental a			Ongoing	6/30/2016	25%
Field Surveying and Pho	otogrammetry		Completed	8/31/2015	100%
WA Amount:	\$ 1,414,650.00	Outstanding Invoice Number	Days Old	Invoice	Amount
Billed To Date:	\$ 470,057.98	125-62837-PL-002	42	\$	58,376.52
Paid To Date:	\$ 389,373.70	126-62837-PL-002	14	\$	22,307.76
Unpaid Balance:	\$ 80,684.28				
Total Accrued Interest					
Funding Source:					
				\$	80,684.28



Project Work Authorization Supplemental Supplemental Description: This wor is to be performed in a	3 Outer P	arkway Planni	ing Study ing Study	SA Cost	\$	
Supplemental Supplemental Description: This wor	k authorization p		III Study	SA Cost		
Supplemental Description: This wor		rovides profes				
Description: This wor		rovides profes		SA Cost		
		rovides profes				
		rovides profes		Total Cost	\$	12,200.0
Scope: This Work Au	thorization includ		schematic design for the Ou			
			stablishment of the alignme			
Outer Parkway Plannir	og Study		Project Activity			
	Complete.					
CATALOG STATE OF THE STATE OF T		nental Classifi	cation letter for FHWA conc	currence on EA classification.		
Recent Activity:						
Upcoming Activity:	Submit Classifica	ation letter to F	HWA.			
Outstanding Issues:	None.				550-75-7	
	Tas	k		Status	Date of Anticipated Completion	% Complete
Outer Parkway Plann				Otatas		70 Gomplete
Project Management a				Complete	3/1/2011	100%
Data Collection				Complete	3/1/2011	100%
Meetings/Management				Complete	3/1/2011	100%
			Outstanding Invoice			
WA Amount:	\$	12,200.00	Number	Days Old	Invoice	Amount
Billed To Date:		12,200.00	1-62837-PL-003R	57	\$	12,200.00
Paid To Date:	\$	-				
Unpaid Balance:		12,200.00				
	·	,				
Edia. O.						
Funding Source:				Total:	\$	12,200.00



Project		SH 32 GEC				
Work Authorization	5	SH 32 GEC		WA Cost	: \$	323,848.00
Supplemental	1	SWA01 to WA05		SA Cost	: \$	45,874.95
				Total Cost	_	369,722.95
expedite the prelimina utility, extend from US	ry devel 77/83 to	opment phases of these two o FM 3068 (herein referred t	SH 32 projects only. The as SH 32-West) and from	guidance, agency coordination, a ne two projects, which each have om FM 3068 to SH 4 (herein refer d. and Traffic Engineers, Inc.) und	logical termini and red to SH 32-Eas	d independent t). The proposed
The environmental ass	sessmer	nts are being prepared by ot	her firms.	ent of two environmental assessr	nents being prepa	red for SH 32.
Deliverable: Meeting	notes, s	schedules, document review	s, permitting strategies.			
			Project Activit	у		
East Loop EA	Soc 40	619-PL-049				
Status.		619-PL-049				
Recent Activity:	000 40	010 1 2 040				
Upcoming Activity:		619-PL-049				
Outstanding Issues:	See 40	619-PL-049	4 2 1			
		Task		Status	Date of Anticipated Completion	% Complete
East Loop EA						
Project Management a		rdination		Ongoing	12/31/2015	60.0%
Route and Design Stud Social, Environmental				Ongoing	12/31/2015	60.0%
Social, Environmental	and Ecc	onomic Studies		Ongoing	12/31/2015	60.0%
WA Amount:	\$	369,722.95	Outstanding Invoice Number	Days Old	Invoice	Amount
Billed To Date:	\$	210,365.03				
Paid To Date:	\$	210,365.03				
Unpaid Balance:	\$	-				
Funding Source:						
				Total	\$	•

Pete Sepulveda, Jr.
Executive Director
Cameron County Regional Mobility Authority
3461 Carmen Avenue
Rancho Viejo, Texas 78575



July 1, 2016

Dear Mr. Sepulveda,

The following is a summary of our progress on the subject projects for the month of June 2016.

Project Management:

General GEC

- Prepared & submitted CCRMA GEC Invoice for work performed on various Work Authorizations from Previous Contract (PC) and Current Contract (CC). Updated and submitted May 2016 GEC report.
- Assisted CCRMA Controller on activities involving reporting and documentation of invoicing, progress reports and other accounting/billing matters.

South Padre Island Second Access Phase 3A & 3B (PC - Work Authorization No. 17 and CC - Work Authorization No. 2):

This Work Authorization provides engineering and environmental services associated with the development and advancement of the NEPA process for the proposed South Padre Island (SPI) 2nd Access Project in Cameron County, Texas. The proposed Project will provide an alternate route to the Queen Isabella Memorial Causeway; thus, enhancing local and regional mobility, and facilitating effective evacuation of the island in times of disaster, hurricanes, and other emergencies. This Work Authorization continues the environmental and schematic design tasks necessary on the Recommended Preferred Alternative to advance the project to a Record of Decision (ROD).

- HNTB continues to provide assistance and information to CCRMA Board and staff, members of the general public and stakeholders.
- Coordination, including weekly meetings, with TxDOT Pharr District, TxDOT ENV and FHWA
 has been on-going regarding the FEIS tasks.
- Submitted the 100% submittal package (i.e. typical sections, geometric design, preliminary cross sections, preliminary traffic control, 3D modeling, and schematic plan preparation, preliminary construction cost estimate, hydrology, hydraulic studies, drainage design and preliminary bridge layouts) to TxDOT for their review on 11/2. Coordinating with subconsultants to address TxDOT comments.
- Revised master design schedule and submitted to subconsultants for review.
- Continued coordination with subconsultants on geotechnical services.

- Summary report of Context Sensitive Solutions (CSS) workshops and survey results are complete.
- First draft of Final EIS (12/23/2014) has been revised. Backcheck review and comment by CCRMA, TxDOT-ENV and TxDOT-Pharr is complete. FHWA-HQ comments received 11/16/2015 and revisions are complete. Submittal #3 (Resource Agency Review) was submitted 1/21/2016. USACE comments received 03/30/16. USCG, NMFS and USFWS comments pending.
- Coordinated with subconsultants on FEIS and permitting tasks. USACE approved Preliminary Jurisdictional Determination (PJD) 3/21/16. Individual Permit Application (IP) in preparation by subconsultant.
- Responses to TxDOT and FHWA comments on the Seagrass Survey, Wetland Delineation Report
 have been approved by resource agencies and complete. Vegetation and Habitat Report with
 Biological Evaluation Form (BE Form) have been submitted to TPWD. Approval pending review
 of FEIS. Essential Fish Habitat Report was submitted for agency review (NMFS) 9/24/15.
 Comments received from NMFS 5/6/16. Biological Assessment (BA) and Sea Grass Mitigation
 Plan were submitted to USFWS and NOAA on 8/17/15, respectively. Reviews are in progress.
- Coordination with CCRMA, TxDOT, USFWS and Conservation Fund on potential impacts to Migratory Bird Conservation Lands has been completed. Section 4(f) Determination Package, including survey and documentation requirements were prepared and submitted to FHWA. A Final 4(f) determination was received from FHWA 11/5/15 and clearance was given to proceed with early acquisition of 2.78 acres of property needed for ROW. Transaction transferring property to Cameron County was executed and deed recorded 12/18/15. This action was necessary to clear Section 4(f) and allow for future ROW acquisition.
- Progressed contracting and coordination with the following subconsultants: SWCA completed remaining archeological work and received concurrence from THC. SWCA has revised the BA for TxDOT, TxDOT-ENV and FHWA comments and submitted the revised Draft BA to USFWS 8/17/15. Revised BA (aquatic) submitted to NMFS-PRD 8/17. USFWS comments received 9/18 and internal comment workshop held 10/12 with TxDOT-Pharr, TxDOT-ENV, HNTB and SWCA. Joint USFWS/Project team comment resolution meeting held 3/9/16. Joint Engineering/Environmental Technical Workshop held 3/23/16 to consider USFWS comments that may require schematic revisions. BA revisions in progress for resubmittal to USFWS. Executive Committee was convened 3/24/16 to discuss USFWS comments and other issues affecting schedule. Revised BA submitted 5/27/16 form internal review. Revised BA (aquatic) review in progress at NMFS-PRD. Belaire Environmental has submitted a Draft Sea Grass Mitigation Plan for TxDOT and FHWA review on 7/7/15. Belaire Environmental has completed modeling necessary to validate plan. TxDOT-Pharr and TxDOT-ENV comments on Seagrass modeling report resolved in workshop 10/20. Revised report received 10/30. Now beginning scoped pilot studies and permit coordination with USACE, TPWD and GLO. Application for Nationwide Permit 27 submitted 2/26/16 and approved 4/25/16. . GLO lease agreements approved 5/16/16. TPWD approvals pending USCG Private Aids to Navigation Permit. USCG Private Aids to Navigation application submitted 5/3/16; processing in progress with approval expected early May. Revised Seagrass Mitigation plan was presented at December 1 USACE Joint Evaluation Meeting (JEM). Plan being revised per JEM comments. Target date for installation of Pilot Study now 6/6/16. Wetland Mitigation Plan was submitted for agency review 11/9/15 and was also discussed at December 1 JEM. Preliminary Jurisdictional Determination submitted to USACE 9/29/15 and approved PJD received 3/21/16. NMFS comments on Essential Fish Habitat Assessment received 5/6/16. Resolution of comments currently in progress.

Olmito Switch Yard & Repair-In-Place Facility (PC - Work Authorization No. 31)

This work authorization provides engineering services throughout the construction duration of the Olmito Switch Yard and Repair-In-Place (RIP) Facility by providing responses to the contractor's Requests for Information, Shop Drawing Review and As-Built construction plans.

HNTB is assisting with the completion and close out of this project.

West Rail Bypass, CI (PC - Work Authorization No. 33)

This work authorization provides professional services associated with construction inspection phase work for the West Rail Bypass.

• HNTB is assisting with the completion and close out of this project.

Outer Parkway Study (CC - Work Authorization No. 3)

This work authorization provides professional services and deliverables associated with a study for the Outer Parkway. The study is to be performed in a three phase effort to deliver a schematic design for the Outer Parkway project. The phases are:

- TxDOT, CCRMA, and HNTB personnel met to discuss the supplemental work authorization for the Environmental Assessment and Route Studies. The meeting was held at the Joe G. Rivera and Aurora de la Garza County Annex on October 8th. HNTB and TxDOT discussions on-going regarding CDA vs. non-CDA scope needed.
- Classification Letter was signed by TxDOT ENV on February 3rd concurring that the project be classified as an EA and that preparation of an EIS is not required.

SH 32 GEC Preliminary Schematic and Environmental Approval (CC - Work Authorization No. 5)

This work authorization provides professional services for oversight, guidance, agency coordination, and issue resolution, necessary to expedite the preliminary development phases of these two SH 32 projects only. The two projects, which each have logical termini and independent utility, extend from US 77/83 to FM 3068 (herein referred to as SH 32-West) and from FM 3068 to SH 4 (herein referred to SH 32-East). The proposed projects are being developed by two prime subconsultants, (S&B Infrastructure, Ltd. and Traffic Engineers, Inc.) under the oversight of HNTB (GEC).

SH 32 West (Consultant - Traffic Engineers, Inc., or TEI):

- Continued project coordination with TEI.
- Archeological field was completed and report writing is underway.
- Coordinated with TxDOT and USFWS to modify land swap below 40 acres. Exhibit was submitted to TxDOT on 5/26.
- Continued coordination with subconsultant, TxDOT and USFWS to discuss EA and 4(f) requirements for documentation for land swap.
- TxDOT, subconsultants, and HNTB personnel met to discuss IBWC and USFWS coordination next steps, meeting was held via conference call on October 14th.

- Awaiting revised BA and EA from TEI to include impacts to levee relocation and USFWS refuge impacts of approximately 40 acres.
- HNTB is working with subconsultant and TxDOT to revise schedule.
- HNTB coordinated with TEI to identify needs to move project forward and dates deliverables expected.
- HNTB is working on a path forward for the potential of a combined EA for the SH 32 East and West projects.

SH 32 East (Consultant - S&B Infrastructure, Ltd., or S&B):

- Continued project coordination with S&B.
- Biological Assessment was revised per TxDOT comments, reviewed by the GEC and resubmitted to the TxDOT Pharr District for back check.
- Submitted schematic GEC comments to subconsultant on 5/27.
- Submitted EA GEC/TxDOT comments to subconsultant on 5/28.
- HNTB back checked S&B EA revisions and resubmitted for ENV review on 9/30/2015.
- HNTB held conference call on 10/29/15 with ENV to discuss review status of EA review.
- HNTB received additional EA comments from ENV on 12/3, the comments were submitted to the subconsultant on 12/4.
- S&B submitted revised EA for GEC internal review on 3/4/2016. GEC completed back check and provided comments to S&B on 3/15/2016.
- HNTB back checked S&B EA revisions and resubmitted for ENV review on 4/1/2016.
- Biological Evaluation Form was reviewed by HNTB and submitted to ENV for review on 4/13/2016.
- HNTB working with subconsultant and TxDOT to revise schedule.
- TxDOT, HNTB, and S&B held a meeting on 5/9/2016 to discuss the remaining comments for the EA document and Biological Evaluation Form. S&B is working on addressing the remaining TxDOT comments.
- HNTB is working on a path forward for the potential of a combined EA for the SH 32 East and West projects.

West Rail Bridge - RFI/Shop Drawings Review and CEI for Security Fencing, Gate, Illumination, and DHS Building Components (US portion of bridge only) (PC - Work Authorization No. 69)

- HNTB attended the "soft opening" held on 8/7 which commemorated UPRR's first train crossing into Mexico using the new bridge. UPRR ran their last train into Mexico on the B&M on 8/6.
- HNTB attended the "grand opening" held on 8/25 which included dignitaries from both the U.S. and Mexico.
- Continue to review and forward contractor's submittals.
- The contractor continues working on the final punch list items.
- Continue to perform site visits to verify completion of final punch list items.

Consultant Management:

• Project was completed and opened to traffic on June 4, 2015 at 4:00 p.m. The 30 day no toll introduction was completed on July 4, 2015.

Agency Coordination:

 Conducted ongoing discussions with CCRMA staff, TxDOT staff and subconsultants for preparation of SPI 2nd Access project (see specifics above), Outer Parkway, Olmito Switch Yard Repair-In-Place Facility construction project, West Rail construction project, SH 32 East Loop EAs and other miscellaneous items.

Best regards,

Richard L. Ridings, P.E.

Vice President

cc: Carlos Lopez, P.E.

A	pril	Status	Re	port

	N	-
П	l k	

Project		South Padre Island Phase 3A & 3B		
Work Authorization	17		WA Cost:	\$ 2,965,831.00
Supplemental	2	Affected Env & Env Consequences	SA Cost:	\$ 165,885.00
Supplemental	3	Affected Env & Env Consequences	SA Cost:	\$ 415,622.00
Supplemental	4	Affected Env & Env Consequences	SA Cost:	\$ 109,870.00
Supplemental	6	Affected Env & Env Consequences	SA Cost:	\$ 166,668.00
Supplemental	7	Affected Env & Env Consequences	SA Cost:	\$ 40,290.00
Supplemental	8	Affected Env & Env Consequences	SA Cost:	\$ 59,094.00
Supplemental	9	Affected Env & Env Consequences	SA Cost:	\$ 37,334.00
Supplemental	10	Affected Env & Env Consequences	SA Cost:	\$ 4,488,102.00
Supplemental	11	Affected Env & Env Consequences	SA Cost:	\$ 118,256.00
Supplemental	12	Affected Env & Env Consequences	SA Cost:	\$ 15,827.00
Supplemental	13	Affected Env & Env Consequences	SA Cost:	\$ 244,621.00
Supplemental	14	Affected Env & Env Consequences	SA Cost:	\$ 818,241.00
			Total Cost:	\$ 9,645,641.00

Description: This Work Authorization provides engineering and environmental services associated with the development and advancement of the NEPA process for the proposed South Padre Island (SPI) 2nd Access Project in Cameron County, Texas. The proposed Project will provide an alternate route to the Queen Isabella Memorial Causeway; thus, enhancing local and regional mobility, and facilitating effective evacuation of the island in times of disaster, hurricanes, and other emergencies. This Work Authorization continues the engineering and environmental tasks necessary to advance the project to a schematic design of the Recommended Preferred Alternative, FEIS and ultimately to a Record of Decision (ROD).

Scope: Prepare schematic, FEIS and Surveying

Route and Design Studies

Deliverable: Project administration and coordination, schematic design of the Recommended Preferred Alternative, VE study, toll facility study, interim financial and project management plan, base and soil testing and core drilling, traffic forecasting, traffic operational study, PI, CSS, FEIS, Record of Decision (ROD) and surveying

Project Activity

Status:	Ongoing.					
Recent Activity:	Submitted 10	0% submittal pac	kage to TxDOT on 11/2, co	ontinued to coordinate with sub	consultants on fi	nancial plan.
Upcoming Activity:	Coordination	with subconsultar	nt on addressing 100% sul	omittal comments and financial	plan.	
Outstanding Issues:	None.					
Social, Environmental		Studies				
Status:	Ongoing.					
Recent Activity:	archeological anomalies. C	surveys are unde	er TxDOT review. Coordinate USACE regarding poten	meetings with TxDOT and FHV ated marine archeology work re tial relocation of the channel. N Coordination with sub-consult	equired to review Meet with GIWW t	additional
Upcoming Activity:	Continue wor	k on SWA #10 ac	ctivities.			
Outstanding Issues:	None.					
Field Surveying and P		у				
Status:	Completed			****		
Recent Activity:						
Upcoming Activity:						
Outstanding Issues:						
	1	Task		Status	Date of Anticipated Completion	% Complete
Route and Design Stu	dies			Ongoing	6/30/2016	95%
Social, Environmental	and Economic	Studies		Ongoing	6/30/2016	95%
Field Surveying and P	hotogrammetr	у		Completed	6/30/2016	100%
WA Amount:	\$	9,645,641.00	Outstanding Invoice Number	Days Old	Invoice	Amount
Billed To Date:	\$	9,446,042.95	125-40619-PL-017	70	\$	22,441.51
Paid To Date:	\$	9,396,672.83	126-40619-PL-017	42	\$	11,220.25
Unpaid Balance:	\$	49,370.12	127-40619-PL-017	10	\$	15,708.36
Funding Source:						
	I			Total:	\$	49,370.12



Supplemental I SH 32 GEC SA Cost SH 32 GEC SA Cost SA	Project		SH 32 GEC				
SA Cost \$ 243,639.00 Total Cost \$ 2,233,913.00 Description: This work authorization provides professional services for oversight, guidance, agency coordination, and issue resolution, necessary to expedite the preliminary development phases of these two SH 32 projects only. The two projects, which each have logical termini and independent fullify, extend from US 77/83 to FM 3068 (herein referred to as SH 32-West) and from FM 3068 to SH 4 (herein referred to SH 32-East). The proposed report of the projects are being developed by two prime subconsultants, (S&B Infrastructure, Ltd and Traffic Engineers, Inc.) under the oversight of HNTB (GEC). Scope: This Work Authorization allows the GEC to oversee/manage the development of two environmental assessments being prepared for SH 32. The environmental assessments are being prepared by other firms. Project Activity ast Loop EA Status On-going. SH 32-West EA prepared. SH 32-East EA prepared. Resubmitted SH 32 East EA for review on 9/30/2015. Recent Activity. Continued coordination with subconsultants, TxDOT and agencies on schematics and environmental documents. Upcoming Activity. Outstanding Issues None Task Status Date of Anticipated Completion Anticipated Completion V. Complete ast Loop EA Task Status Ongoing 12/31/2015 97.5% Outed Ananagement and Coordination Ongoing 12/31/2015 97.5% Outed Ananagement and Coordination Ongoing 12/31/2015 97.5% Outstanding Invoice Number Days Old Invoice Amount Billed To Date: \$ 2,223,913.00 Unpaid Balance VAA Amount \$ 2,223,913.00 Unpaid Balance Funding Source: Funding Source:	Work Authorization	49	SH 32 GEC		WA Cost:	\$	1,961,997.00
Description: This work authorization provides professional services for oversight, guidance, agency coordination, and issue resolution, necessary to expedite the preliminary development phases of these two SH 32 projects only. The two projects, which each have logical termini and independent filtiply, extend from US 77/83 to FM 3088 (herein referred to as SH 32-West) and from FM 3088 to SH 4 (herein referred to SH 32-East). The proposed rojects are being developed by two prime subconsultants, (S&B Infrastructure, Ltd. and Traffic Engineers, Inc.) under the oversight of HNTB (GEC). Scope: This Work Authorization allows the GEC to oversee/manage the development of two environmental assessments being prepared for SH 32. The environmental assessments are being prepared by other firms. Project Activity ast Loop EA Status Continued coordination with subconsultants, TxDOT and agencies on schematics and environmental documents. Upcoming Activity. Continued coordination with subconsultants, TxDOT and agencies on schematics and environmental documents. Upcoming Activity. Outstanding Issues None Task Status Date of Articipated Completion Yes Completion Task Status Ongoing 12/31/2015 97.5% Outlet and Design Studies Ongoing 12/31/2015 97.5% Outstanding Invoice Number Days Old Invoice Amount Billed To Date: \$ 2,223,913.00 Unpaid Balance: \$ 0.0000000000000000000000000000000000	Supplemental	1	SH 32 GEC		SA Cost:	\$	18,277.00
Description: This work authorization provides professional services for oversight, guidance, agency coordination, and issue resolution, necessary to xpedite the preliminary development phases of these two SH 32 projects only. The two projects, which each have logical termini and independent thing, extend from US 1778 to 15 M 3086 (herein referred to as SH 32-West) and from EM 3086 to SH 4 (herein referred to SH 32-East). The proposed projects are being developed by two prime subconsultants, (S&B Infrastructure, Ltd. and Traffic Engineers, Inc.) under the oversight of HNTB (GEC). **Record Authorization allows the GEC to oversee/manage the development of two environmental assessments being prepared for SH 32. The environmental assessments are being prepared by other firms. **Project Activity** **Record Activity** **Record Activity** **Continued coordination with subconsultants, TxDOT and agencies on schematics and environmental documents. **Upcoming Activity** **Outstanding Issues** **None** **Task** **Status** **Ongoing** **Date of Anticipated Completion** **Q Complete ast Loop EA** **Togect Management and Coordination** **Ongoing** **Date of Anticipated Completion** **Project Management and Coordination** **Ongoing** **Date of Anticipated Completion** **Project Management and Coordination** **Ongoing** **Date of Anticipated Completion** **Project Management and Coordination** **Ongoing** **Date of Anticipated Completion** **Project Management and Coordination** **Ongoing** **Date of Anticipated Completion** **Project Management and Coordination** **Ongoing** **Date of Anticipated Completion** **Project Management and Coordination** **Ongoing** **Date of Anticipated Completion** **Project Management and Coordination** **Ongoing** **Date of Anticipated Completion** **Project Management and Coordination** **Ongoing** **Date of Ant	Supplemental	2	SH 32 GEC		SA Cost:	\$	243,639.00
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Task Status Status Date of Anticipated Completion Mast Loop EA Toject Management and Coordination Ongoing	Upcoming Activity:	Continu	ied coordination with subcon	sultants, TxDOT and agend	ies on schematics and environr	nental documen	ts.
Task Status Anticipated Completion % Complete % Comple	Outstanding Issues:	None					
ast Loop EA roject Management and Coordination Ongoing Outstand Design Studies Ongoing Outstanding Invoice WA Amount: Billed To Date: Paid To Date: Unpaid Balance: Funding Source: Ongoing 12/31/2015 97.5% Ongoing 12/31/2015 97.5% Outstanding Invoice Number Days Old Invoice Amount Invoice Amount Days Old Invoice Amount Days Old Invoice Amount			Task		Status	Anticipated	% Complete
toute and Design Studies Ongoing 12/31/2015 97.5% Ocial, Environmental and Economic Studies Ongoing 12/31/2015 97.5% Ongoing 12/31/2015 97.5% Outstanding Invoice Number Days Old Invoice Amount Billed To Date: \$ 2,223,913.00 Unpaid Balance: \$ -	East Loop EA		Tusk		Ctatas	Manage Complete Compl	70 Complete
WA Amount: 2,223,913.00 Outstanding Invoice Number Days Old Invoice Amount Billed To Date: \$ 2,223,913.00 Unpaid Balance: \$ - -	Project Management a	nd Coo	rdination		Ongoing	12/31/2015	97.5%
WA Amount: \$ 2,223,913.00					Ongoing	12/31/2015	97.5%
WA Amount: \$ 2,223,913.00 Number Days Old Invoice Amount Billed To Date: \$ 2,223,913.00 \$ 2,223,913.00 Unpaid Balance: \$ - \$ - Funding Source: \$ - \$ -	Social, Environmental	and Eco	onomic Studies		Ongoing	12/31/2015	97.5%
Billed To Date: \$ 2,223,913.00 Paid To Date: \$ 2,223,913.00 Unpaid Balance: \$ -	WA Amount:	s	2 223 913 00		Dave Old	Invoice	Amount
Paid To Date: \$ 2,223,913.00 Unpaid Balance: \$				Hamber	Days Old	mvoice	, anount
Unpaid Balance: \$ - Funding Source:							
Funding Source:		11					
	Onpara Balarioc.						
	Funding Source:					TIE,	
					Total:	\$	-

Project



Work Authorization	2 Route Studies and Er	nvironmental	WA Cost:	\$	26,444.00
Supplemental	1 Environmental Proces	ss Completion	SA Cost	\$	225,575.00
Supplemental	2 Environmental Proces	ss Completion	SA Cost:	\$	325,212.13
Supplemental	3 Environmental Proces	ss Completion	SA Cost:		120,943.02
Supplemental	4 Environmental Proces	ss Completion	SA Cost:	\$	200,382.02
Supplemental	5 Environmental Proces	ss Completion	SA Cost:	\$	516,093.83
			Total Cost:		1,414,650.00
and advancement of the an environmental impac	e National Environmental Policy ct statement, alternatives devel	Act (NEPA) process. Topment and evaluation,	ering and environmental services a The tasks associated with the proje and related public involvement act	ect will include the ivities.	
	-		Surveying and Photogrammetry s		
approved in Phase 2. typical sections and lay	Preliminary Study Methodolog	y Memorandum. Draft a alternatives. Draft techr ing of initial Chapters of		outs. Draft and f	inal conceptual
Pouto and Doolen Child		Project Activ	/ity		
Route and Design Stud Status:	See 40619-PL-017				
Recent Activity:					
Upcoming Activity:	activity:				
Outstanding Issues:	Outstanding Issues:				
Social, Environmental a	nd Economic Studies See 40619-PL-017				
Recent Activity:	Sec 40019-FE-017				
		S. Carlo		***	
Upcoming Activity:					
Outstanding Issues:					Windows Committee of the Committee of th
Field Surveying and Pho Status:	See 40619-PL-017				
Recent Activity:					
Upcoming Activity:					
Outstanding Issues:					
	Total		0.4	Date of Anticipated Completion	
Route and Design Studi	es Task		Status		% Complete
Social, Environmental a			Ongoing Ongoing	6/30/2016 6/30/2016	25% 25%
Field Surveying and Pho	otogrammetry		Completed	8/31/2015	100%
		Outstanding Invoice	GERBREIN EINE AUS		
WA Amount:	\$ 1,414,650.00	Number	Days Old	Invoice	Amount
Billed To Date:		125-62837-PL-002	70	\$	58,376.52
Paid To Date:		126-62837-PL-002	42	\$	22,307.76
Unpaid Balance:	\$ 194,872.18	127-62837-PL-002	10	\$	114,187.90
Total Accrued Interest					
. Starr too doc microst					
Funding Source:					
				\$	194,872.18

South Padre Island Second Access



						NID
Project		kway Plann				
Work Authorization	3 Outer Parl	kway Plann	ing Study		\$	
Supplemental				SA Cost:		
Supplemental				SA Cost		
					\$	
Description: This wo	rk authorization prov	ides profes	sional services and delive	rables associated with a study	41-4	
	•		schematic design for the 0	-		, ,
				l and engineering constraints n	nap, environment	al constraints
report, and corridor ide	entification report to	aid in the e	stablishment of the alignm	ent of the Outer Parkway.		
Deliverable: Constra	ints map, environme	ental constr	aints/corridor identification	report.		
			Project Activity	У		
Outer Parkway Planni						
Status:	Complete.	ntal Classifi	cation letter for EH\MA con	currence on EA classification.		
	Draited Environme	illai Ciassii	Cation letter for PHVVA Cor	icultence on EA classification.		
Recent Activity:						
	Submit Classification	on letter to I	FHWA.			
Upcoming Activity:	A. C.					
Outstanding Issues:	None					
Outstanding issues.	None.					
					Date of	
				01.1	Anticipated	
Outer Parkway Plann	Task			Status	Completion	% Complete
Project Management a			The second second second second second	Complete	3/1/2011	100%
Data Collection	and Goordination			Complete	3/1/2011	100%
Meetings/Managemen	nt			Complete	3/1/2011	100%
					0,1,2011	10070
			Outstanding Invoice			
WA Amount:	\$	12,200.00	Number	Days Old	Invoice	Amount
Billed To Date:	\$	12,200.00	1-62837-PL-003R	85	\$	12,200.00
Paid To Date:	\$	-				
Unpaid Balance:	\$	12,200.00				
Funding Source:						
, anding oddroo.				Total:	\$	12,200.00



Project	SH 32 GEC				
Work Authorization	5 SH 32 GEC		WA Cost	\$	323,848.00
Supplemental	1 SWA01 to WA05		SA Cost		45,874.95
ouppiemental	1 STANCT TO VANCO		Total Cost		369,722.95
expedite the prelimina utility, extend from US projects are being dev Scope: This Work Au	rk authorization provides professionary development phases of these two 77/83 to FM 3068 (herein referred tweloped by two prime subconsultants thorization allows the GEC to overse sessments are being prepared by ot	o SH 32 projects only. The co as SH 32-West) and fro s, (S&B Infrastructure, Ltd. ee/manage the developme	e two projects, which each have m FM 3068 to SH 4 (herein refer and Traffic Engineers, Inc.) und	logical termini and red to SH 32-East er the oversight o	d independent t). The proposed f HNTB (GEC).
Deliverable: Meeting	notes, schedules, document review	s, permitting strategies.			
		Project Activity			
East Loop EA					
Status:	See 40619-PL-049				
	See 40619-PL-049				
Recent Activity:					
Upcoming Activity:	See 40619-PL-049				
Outstanding Issues:	See 40619-PL-049				
	Task		Status	Date of Anticipated Completion	% Complete
East Loop EA					Control Control
Project Management a	and Coordination		Ongoing	12/31/2015	60.0%
Route and Design Stu	dies		Ongoing	12/31/2015	60.0%
Social, Environmental	and Economic Studies		Ongoing	12/31/2015	60.0%
WA Amount:	\$ 369,722.95	Outstanding Invoice Number	Days Old	Invoice	Amount
Billed To Date:	\$ 210,365.03		-		
Paid To Date:					
Unpaid Balance:					
Oripaid Dalarice.	7				
Funding Source:					
, unusing course.			Total:	\$	-

2-B PRESENTATION OF THE MARKETING EFFORTS FOR THE MONTH OF JUNE 2016

June 2016 Board Meeting Marketing Report Michelle A. Lopez Marketing & Communications Director



1. WEBSITE-

- a. We continue to observe positive results regionally for the US. A peak in interest for the South Padre Island 2nd Access Project has dramatically increased the amount of web traffic received from South Padre Island. As of 2010, South Padre Island recorded a population of 2,816.
- b. The CCRMA website is currently receiving 90% of its population solely in web traffic. We expect to see another increase in its metric, surpassing Pharr and San Benito.
- c. Decrease in web traffic has been recorded originating from Mexico.
- d. Traffic has become stagnant in the past 30 days showing very little growth in comparison to previous months. We will begin to assess and develop bi-cultural content to attract Mexican audiences in the South Mexico region.

Avg. Page views/Month: 76,715/+4.36%

Pages/Session: 2.29 % New Sessions: 70.57%

New Visitor vs. Returning Visitor: 70.57% / 29.43%

Regional Visits based on Traffic (US): per month

Brownsville	40,843
McAllen	10,832
Harlingen	6,574
Mission	5,638
San Benito	2,731
Pharr	2,539
SPI	2,048
Weslaco	1,841
Edinburg	1,227
Donna	483

List of Regions based on Traffic (MX):

Monterrey	12,216
Matamoros	8,598
Mexico City	2,054
Reynosa	1,870
Tampico	1,495
San Luis Potosi	747
Guadalajara	559
Juarez	559
Ciudad Lopez Mateos	375

Traffic Acquisition:

Direct	38.72%
--------	--------

www.ccma.org www.ccrma.org/projects/2ndspi access www.ccrma.org/projects/SH550/

Referral	2	7.	09	%
1 (0101101	_		00	,,

www.co.cameron.tx.us www.tollroadsnews.com www.txdot.gov www.krgv.com

Organic	Search	28	.56%

Google Bing Yahoo!

Social 5.63%

Facebook Twitter LinkedIn

Keywords used to search: ccrma, Cameron county rma, Cameron county regional mobility authority, ccrma.org, ccrma Texas, Cameron county regional mobility authority west loop project, Cameron county regional mobility authority agendas, ccrma Brownsville, Cameron county mpo, ccrma Cameron county.

Age

18-24	9.99%
25-34	23.67%
35-44	25.74%
45-54	18.90%
55-64	15.17%
65+	6.56%

Sex

Female 34.00% Male 66.00%

Technical Information:

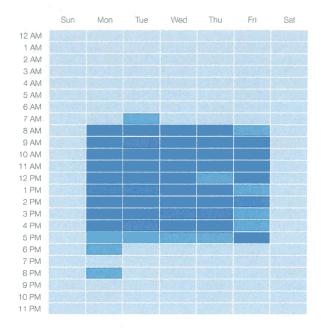
Avg. Page Load Time (sec)	0.58
Avg. Redirection Time (sec)	0.11
Avg. Domain Lookup Time (sec)	0.06
Avg. Page Download Time (sec)	0.30

^{*}Interests based on user's cookies and cached data collected with every visit. This data reflects what each user's primary use for the internet is.

Time slots:

Darker blue time slots represent when traffic is the heaviest to the website. Light blue represents low web traffic.

We have seen an improved web traffic pattern that spans from Monday to Friday from 8 a.m. to 5 p.m.



FIRST LEVEL OF INTERACTION TIME SPENT ON PAGE 00:02:32 avg. www.ccrma.org www.ccrma.org/projects/sh550 00:04:01 avg. 00:03:28 avg. www.ccrma.org/projects/2ndspiaccess www.ccrma.org/projects/westrailrelocation 00:03:12 avg. 2nd Level of Interaction: www.ccrma.org/projects/spi2ndaccess 00:03:32 avg. www.ccrma.org/txtag/ 00:06:39 avg. www.ccrma.org/projects/sh550/ 00:06:22 avg. www.ccrma.org/travel 00:06:01 avg. www.ccrma.org/about/agendas 00:02:14 avg. 3rd Level of Interaction: 00:06:53 avg. www.ccrma.org/ www.ccrma.org/projects/spi2ndaccess 00:09:32 avg. www.ccrma.org/projects/spi2ndaccess/resources 00:04:21 avg. www.ccrma.org/projects/sh550 00:06:22 avg.

2. SOCIAL MEDIA MARKETING-

- a. A new content production strategy has been implemented which will offer engaging posts that feature multimedia. The first delivered results were on the first video of a new series titled, "Project Status". The short videos highlight ongoing updates for CCRMA's current and future projects. In a span of a few days, we were able to see a dramatic increase in reach, views, and consumption which alludes to a healthier audience response.
 - Page Likes: 5,053 Total Likes

www.ccrma.org/faq

- Video Report: 23,045 Total Reach / 9.2K Views / 3,647 total min.
 - i. Project: Gaps 1 & 2 on S. H. 550/I-169 in Brownsville

00:07:01 avg.

- ii. Upload Date: June 22, 2016
- iii. Total Reach 20,393 Post(s) Reach
- b. TWITTER: 1,145 followers

3. TXTAG MARKETING / UNITED FOR VETERANS / PTOLL-

- a. New ads have begun circulating online through Google AdSense and Facebook to promote SH 550 usage and TxTag enrollment. These ads are designed to promote engagement by clicking enrollment links, likes and shares.
- b. Ads have also been utilized to promote United for Veteran donors.

- c. Those who have donated are now getting promoted online and through social media:
 - Doctor Asim Zamir
 - Noble Texas Builders
 - Aguirre & Square Law Group donated \$500 to the program.
 - Fina's Coffee Shop in Brownsville donated \$100 to the program.
 - Valley Regional Medical Center.

4. PHARR INTEROPERABILITY PLAN

a. We met with Pharr officials and went over the Marketing Plan designed specifically for the interop plan. The response was positive. We're just waiting on more details of the contract. We could start the campaign by the end of July.

5. PROJECT PHOTOGRAPHY

a. Photography and video of CCRMA's ongoing projects have begun, starting with FM 803
 & General Brant Rd which have received positive organic engagement through social media.

6. Project Statuses

a. The first of many Project Status Updates has been produced and distributed through our online platforms. The engagement received through the initial video have been positive, increasing out total online reach for the CCRMA to 101,436 on a monthly average. Various productions will be developed to address certain audiences (commercial, passenger, and international traffic).

7. Email Newsletter

a. An increase of 31.4% was recorded in total email opens for this month's email newsletter. Subtle changes were implemented to direct our initiatives to a more interactive audience rather than an informational one. A small survey was implemented in our online newsletter to obtain data at a month to month basis corresponding to toll road usage (S.H. 550/l-169). The following are the results of this ongoing feedback study: 3-B CONSIDERATION AND APPROVAL OF FINANCIAL SERVICES AGREEMENT BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND ESTRADA HINOJOSA & COMPANY, INC. (TABLED)





MEMORANDUM

TO: Chairman and Board Members

FROM: Adrian Rincones, Chief Financial Officer

RE: Claims Items 4A

DATE: July 14, 2016

Attached are the claims paid on June 30, July 7, and July 8, 2016 that are being presented for the Board's acknowledgement.



Claims Acknowledgement

Vendor ID	Vendor Name	Invoice Number	Cash Required	Invoice/Credit Description
		Claims Paid June	30, 2016	
AFLAC	Aflac	669709	233.98	Employee Supplemental Insurance
Aire Serve	Aire Serve Heating & Air Conditioning	006787	461.00	AC Maintenance Work on SH550
Aire Serve	Aire Serve Heating & Air Conditioning	006788	178.00	AC Maintenance Work on SH550
Angel T Perez	Angel Timoteo Perez	AP 6.25.16	210.00	Road Closure for Maintenance
Cust Teresita Lopez	Teresita Lopez	TL 6.29.16	40.00	Refund to customer for double payment
Emp Luis Perez	Luis Perez	Luis 6.21.16	19.90	Employee Mileage Reimbursement
ntravision	Entravision Communications	June 2016	1,000.00	Monthly Marketing for SH550
EXA eNERGY	Gexa Energy, LP	21378318	195.27	Energy Services for Rental Office 3470 Carmen Ave.
BTTA	International Bridge, Tunnel& Turnpike Association	2016-A-NA-066	1,589.00	Active Member Dues
izbeth J. Ponce	Lizbeth J. Ponce	LP 6.29.16	3,836.21	Reimb for office supplies pickup mileage and Orlando an Atlanta travel expenses
izbeth J. Ponce	Lizbeth J. Ponce	LP 6.29.16-2	69.99	Reimbursement for Office Supplies
Matus Contractor Co	Matus Contractor Company	38	4,500.00	Cutting grass, garbage collection, and herbicide on SH550
Office World	Office World	3175		Office Furniture for Conference Room and PSJ's Office
Prisciliano Delgado	Prisciliano Delgado	10513	2,190.00 200.00	Lawn Care Services for June 2016
PUB	Public Utilities Board	June 2016-588837	232.90	Utilities on Port Spur - SH550
Rancho Viejo Pet	Rancho Viejo Pet Club LLC	July 2016	1,750.00	July Rent for Rental Office
Reliant	Reliant	228000137076	1,750.00	Utilities at Rancho Viejo Office
Republic Services	Republic Services	0863-001171178	78.83	Shredding Services
D Roberto Mata	Roberto Angel Mata	RM6.25.16	210.00	Road Maintenance Closure
taples Credit	Staples Credit Plan	Staples 6.15.16	979.49	Office Supplies
urface Leasing	Texas General Land Office TML Intergovernmental Employee	16001534-16001535	1,145.00	SPI Project Lease with GLO for Pilot Study
ML Emp Health	Benefits Pool	2016-07	5,353.60	Employee Health Benefits
χU	TXU Energy	055351688015-1765	491.61	Utilities on Direct Connector - SH 550
XU	TXU Energy	055351688015-3128	633.19	Utilities on GM1847 - SH550
erizon Wireless	Verizon Wireless	7373026957	52.15	Monthly Wifi Hotspot
liegner	Ziegner Technologies	103116	402.00	Hosting Services for MIP Fund Accounting for July 2016
iegner	Ziegner Technologies	103126	402.00	Hosting Services for MIP Fund Accounting for August 201
		Claims Paid July	7, 2016	
Adrian	Adrian Rincones	AR 7.6.16	73.60	Reimbursement for office supplies and Email Hosting
Adrian	Adrian Rincones	AR 7.7.16	66.00	Reimbursement for CPA License Renewal
lanca C. Betancourt	Blanca C. Betancourt	25	4,875.00	Administrative Support for June 2016
ulligan	Culligan of the Rio Grande Valley	June 2016	82.04	Water Services for CCRMA Office June 2016
agan Consulting	Fagan Consulting LLC	CCOS1606	5,040.00	Operations Support
ranco San Miguel	Francisco San Miguel	FSM 7.1.16	426.50	Reimbursement for Toll Maintenance Equipment
ranco San Miguel	Francisco San Miguel	June 2016	1,750.00	Monthly Services for Toll Maintenace for June 2016
exisNexis	LexisNexis Risk Solutions FL Inc	1546392-20160630	95.00	LexisNexis Toll Support Services
one Star Shredding	Lone Star Shredding Document Storage	1926656	52.50	Monthly Shredding Services
Лegashine	Megashine	1230	950.00	Janitorial Cleaning Services for July
Ogilvy Public	Ogilvy Public Relations Worldwide	91358486	15,000.00	Government relations support at the federal level
UB	Public Utilities Board	600710 - June 2016	283.59	Utilities for Direct Connector - SH550
Communications	R Communications	IN-XH-1160632659	1,100.00	SH550 Radio Marketing for June 2016
GV Spotlight	RGV Spotlight	INV-0A13002B	200.00	Facebook Marketing Campaign
GV Spotlight	RGV Spotlight	INV-0A13004B	1,449.46	Promo Items from Delux
ullivan Public Affairs	Sullivan Public Affairs	CC062016	7,500.00	Government Relations Consulting Services for June
exas Department	Texas Deparment of Motor Vehicles	TxDMV 7.7.16	1,000.00	Transfer into Escrow Account for TxDMV
he Brownsville Herald	The Brownsville Herald	5239806	500.00	4th of July Flag Wrapper Ad
ime Warner Cable	Time Warner Cable Business Class	July 2016	504.63	Mothnly Charge for Internet and Phone Services
ML	Texas Municipal League Intergovernmental		13,893.75	Insurance Liability Coverage Quarterly Expense
Inited Postal Services	United States Postal Services	USPost 7.7.16	215.00	Permit Account Fee with US Postal Services
erox	Xerox	085215902	457.89	Printer Monthly Rent
		Claims Paid July	8, 2016	
		6306		



MEMORANDUM

TO: Chairman and Board Members

FROM: Adrian Rincones, Chief Financial Officer

RE: Claims Items 4A

DATE: July 14, 2016

The following are claims being presented to the Board for consideration. Staff recommends approval of the claims.



Claims for Consideration and Approval

Vendor ID	Vendor Name	Invoice Number	Cash Required	Invoice/Credit Description
		July 14, 2	016	
Adrian	Adrian Rincones	AR 7.11.16	380.00	Reimbursement for CPA License Renewal Dues
Emp Cristina Alcocer	Cristina Alcocer	CA 7.13.16	467.16	Reimbursement for Orlando and Atlanta Business Trip,
				Office Supplies and Mileage for Agendas
Emp Ericka Trevino	Ericka Trevino	ET 7.11.16	262.01	Mileage Reimbursement and Postage
Entravision	Entravision Communications	Jul-16	1,000.00	Monthly Marketing for SH550
Fagan Consulting	Fagan Consulting LLC	P3-1066	5,472.00	Work on implementation of Phase III and IV of the BOS
Fagan Consulting	Fagan Consulting LLC	P4-1606	34,884.00	Work on implementation of Phase III and IV of the BOS
G&T Paving, LLC	G&T Paving, LLC	2016-112	13,000.00	Emergency Repairs on SH550 - backfill & compact the erroded areas
НИТВ	HNTB Corporation	125-40619-PL-017	80,817.03	SPI Environmental & Project Management Services March 2016
HNTB	HNTB Corporation	126-40619-PL-017	33,528.01	SPI Environmental studies & oversight April
HNTB	HNTB Corporation	127-40619-PL-017	129,896.26	Environmental Studies and Project Coordination SPI May 2016
International Carpet	International Carpet One	6306-2	1,491.02	Carpet for Back Office Remodelation at CCRMA Main Office
SD Roberto Mata	Roberto Angel Mata	RM 7.7.16	105.00	Road Maintenance Closure
The Rentrfro Law Firm	The Rentrfro Law Firm, PLLC.	020208	236.80	Legal Services for West Rail June 2016
The Rentrfro Law Firm	The Rentrfro Law Firm, PLLC.	020209	32.00	Legal Services for West Rail June 2017
The Rentrfro Law Firm	The Rentrfro Law Firm, PLLC.	020210	732.98	Legal Services for West Rail June 2018
The Rentrfro Law Firm	The Rentrfro Law Firm, PLLC.	020211	300.80	Legal Services for West Rail June 2019
TollPlus Inc	TollPlus inc	164	67,308.68	TollPlus BOS Implementation Mileston #2

4-B CONSIDERATION AND APPROVAL OF THE FINANCIAL STATEMENTS AND BUDGET AMENDMENTS FOR THE MONTH OF JUNE 2016

SH 550, future I-169, was the first Toll Road in South Texas. Construction began in 2010 and was completed in 2015. The 10-mile Toll Road begins on 169-E and runs along SH 550 to SH 48, creating an alternate route to the Port of Brownsville and South Padre Island.

CCRMA MONTHLY FINANCIAL REPORT JUNE 2016

Pete Sepulveda, Jr. Executive Director

Jesus Adrian Rincones, CPA, CFE, Chief Financial Officer

CCRMA MONTHLY FINANCIALS

TABLE OF CONTENTS

REVENUES & EXPENSES

ADMINISTRATIVE REVENUES AND EXPENSES TOLL OPERATIONS REVENUES AND EXPENSES COMBINED REVENUES AND EXPENSES	2
CAPITAL PROJECT'S	
SUMMARIZED CAPITAL PROJECTS ACTIVITY DETAILED CAPITAL PROJECTS ACTIVITY	
FINANCIALS	
BALANCE SHEET	
STATEMENT OF CASH FLOW	

Statement of Revenues, Expenditures And Changes in Net Assets - Unposted Transactions Included In Report From 6/1/2016 Through 6/30/2016

(In Whole Numbers)

	Current Period Actual	Current Year Actual	YTD Budget - Original	YTD Budget Variance - Original
Operating Revenues				
Vehicle registration fees	264,226	2,380,592	2,950,000	(569,408)
TRZ revenue	0	0	750,000	(750,000)
Other revenue	0	1,551,013	1,685,000	(133,987)
Total Operating Revenues	264,226	3,931,605	5,385,000	(1,453,395)
Operating Expenses				
Personnel costs	51,445	525,536	696,520	170,984
Professional services	15,000	68,291	134,900	66,609
Contractual services	12,856	80,196	72,000	(8,196)
Debt interest	0	2,213,467	4,330,000	2,116,534
Advertising & marketing	1,244	24,828	25,000	172
Data processing	804	6,292	6,250	(42)
Dues & memberships	1,589	13,059	15,000	1,941
Education & training	0	7,545	10,000	2,455
Fiscal agent fees	0	8,886	25,000	16,114
Insurance	0	6,724	6,900	176
Maintenance & repairs	1,400	15,670	20,500	4,830
Office supplies	1,438	20,519	34,800	14,281
Rent	1,750	11,011	19,500	8,489
Travel	1,220	16,449	35,000	18,551
Utilities	1,085	10,183	10,000	(183)
Other expenses	0	0	18,000	18,000
Total Operating Expenses	89,831	3,028,655	5,459,370	2,430,715
Non Operating Revenue				
Interest income	392	10,918	20,000	(9,082)
Total Non Operating Revenue	392	10,918	20,000	(9,082)
Changes in Net Assets	174,787	913,867	(54,370)	968,237
Net Assets Beginning of Year				
	739,080	0	0	0
Net Assets End of Year	913,867	913,867	(54,370)	968,237

Statement of Revenues and Expenditures - Toll Operations - Unposted Transactions Included In Report From 6/1/2016 Through 6/30/2016

	Current Period Actual	Current Year Actual	YTD Budget - Original	YTD Budget Variance - Original
Toll Operating Revenues				
Toll Revenue	47,423.02	323,066.45	260,000.00	63,066.45
Toll Violation Revenue	27,490.08	185,559.94	175,000.00	10,559.94
Interop Revenue	42,500.00	363,886.99	230,000.00	133,886.99
Bridge Interoperability	0.00	0.00	10,000.00	(10,000.00)
Other Revenue	0.00	0.00	5,000.00	(5,000.00)
Total Toll Operating Revenues	117,413.10	872,513.38	680,000.00	192,513.38
Toll Operating Expenses				
Advertising & Marketing	3,549.46	36,630.14	50,000.00	13,369.86
Contractual	1,750.00	14,000.00	24,000.00	10,000.00
Education & Training	0.00	0.00	5,000.00	5,000.00
Maintenance - SH 550	6,004.58	45,704.32	65,000.00	19,295.68
Interop Collection Fees	2,650.00	23,665.76	21,000.00	(2,665.76)
PBM Add on Fees	5,030.28	35,436.75	21,000.00	(14,436.75)
PBM Image Review	6,393.57	47,900.92	30,000.00	(17,900.92)
PBM Pre-Court Program	495.00	3,754.64	6,000.00	2,245.36
Postage	0.00	100.15	500.00	399.85
Rent	0.00	910.00	1,000.00	90.00
Travel	3,836.21	3,836.21	8,500.00	4,663.79
Utilities	1,641.29	12,156.53	17,500.00	5,343.47
Bridge Interoperability Administration Fee	0.00	0.00	1,500.00	1,500.00
Bridge Interoperability Maintenance	0.00	0.00	12,000.00	12,000.00
Toll Road Property Insurance	0.00	39,155.00	50,000.00	10,845.00
Toll Operational Support	5,040.00	64,297.05	61,000.00	(3,297.05)
Toll System Provider Maintenance	0.00	137,500.00	226,300.00	88,800.00
Total Toll Operating Expenses	36,390.39	465,047.47	600,300.00	135,252.53
Changes in Net Assets	81,022.71	407,465.91	79,700.00	327,765.91

Combined Statement of Revenues and Expenses - Unposted Transactions Included In Report From 6/1/2016 Through 6/30/2016

-	Current Period Actual	Current Year Actual	YTD Budget - Original	YTD Budget Variance - Original
Operating Revenues				
Vehicle registration fees	264,226.00	2,380,592.25	2,950,000.00	(569,407.75)
Toll revenues	117,413.10	872,513.38	675,000.00	197,513.38
TRZ revenue	0.00	0.00	750,000.00	(750,000.00)
Other revenue	0.00	1,551,012.61	1,690,000.00	(138,987.39)
Total Operating Revenues	381,639.10	4,804,118.24	6,065,000.00	(1,260,881.76)
Operating Expenses				
Personnel costs	51,444.92	525,536.37	696,520.00	170,983.63
Accounting software and services	0.00	3,541.00	9,900.00	6,359.00
Professional services	15,000.00	65,000.00	125,000.00	60,000.00
Contractual services	14,606.09	94,195.63	96,000.00	1,804.37
Debt interest	0.00	2,213,466.50	4,030,000.00	1,816,533.50
Project expenses	0.00	0.00	300,000.00	300,000.00
Advertising & marketing	4,793.16	61,457.65	75,000.00	13,542.35
Data processing	804.00	6,292.07	6,250.00	(42.07)
Dues & memberships	1,589.00	13,059.00	15,000.00	1,941.00
Education & training	0.00	7,544.65	15,000.00	7,455.35
Fiscal agent fees	0.00	8,886.00	25,000.00	16,114.00
Insurance	0.00	45,879.16	56,900.00	11,020.84
Maintenance & repairs	1,400.00	15,670.00	20,500.00	4,830.00
Office supplies	1,437.54	20,619.58	35,300.00	14,680.42
Road maintenance	6,004.58	183,204.32	303,300.00	120,095.68
Rent	1,750.00	11,921.01	20,500.00	8,578.99
Toll services	19,608.85	175,055.12	140,500.00	(34,555.12)
Travel	5,056.66	20,285.15	43,500.00	23,214.85
Utilities	2,726.54	22,339.22	27,500.00	5,160.78
Other expenses	0.00	0.36	18,000.00	17,999.64
Total Operating Expenses	126,221.34	3,493,952.79	6,059,670.00	2,565,717.21
Non Operating Revenue				
Interest income	392.22	10,917.76	20,000.00	(9,082.24)
Total Non Operating Revenue	392.22	10,917.76	20,000.00	(9,082.24)
Changes in Net Assets	255,809.98	1,321,083.21	25,330.00	1,295,753.21
Net Assets Beginning of Year	1,065,273.23	0.00	0.00	0.00
Net Assets End of Year	1,321,083.21	1,321,083.21	25,330.00	1,295,753.21

Capital Projects in Progress - Unposted Transactions Included In Report From 6/1/2016 Through 6/30/2016 (In Whole Numbers)

	Current Period Actual	Current Year Actual	YTD Budget - Original	YTD Budget Variance - Original
Capital Projects				
South Padre Island 2nd Access	69,296	850,560	2,500,000	1,649,440
West Parkway Project	0	0	800,000	800,000
Outer Parkway	0	0	2,550,000	2,550,000
FM 1925	0	0	100,000	100,000
West Rail Relocation	775,000	1,378,736	3,500,000	2,121,264
SH 550	0	223,238	7,650,000	7,426,762
SH 32 (East Loop)	0	63,507	2,150,000	2,086,493
Toll Equipment & Operational Infrastructure	0	195,995	0	(195,995)
Total Capital Projects	844,296	2,712,035	19,250,000	16,537,965

Statement of Revenues and Expenditures - Unposted Transactions Included In Report From 6/1/2016 Through 6/30/2016 (In Whole Numbers)

		Current Period Actual	Current Year Actual	YTD Budget - Original	YTD Budget Variance - Original
Capital Projects					
South Padre Island 2nd Access	2000				
CAPITALIZED PROJECT COSTS	01CAP				
CIP - Planning & Coordination	15100	2,050	107,929	250,000	142,071
CIP - Preliminary Engineering & Design	15110	0	66,456	350,000	283,544
CIP - Environmental Studies	15120	66,101	522,346	1,500,000	977,654
CIP - Public Presentations, RFP, RFQ, Bidding & Letting	15140	0	11,275	100,000	88,725
CIP - Right of Way	15200	1,145	8,950	300,000	291,050
CIP - Direct Legal Costs	15300	0	133,604	0	(133,604)
Total South Padre Island 2nd Access		69,296	850,560	2,500,000	1,649,440
West Parkway Project	2025	•	·		
CAPITALIZED PROJECT COSTS	01CAP				
CIP - Preliminary Engineering & Design	15110	0	0	150,000	150,000
CIP - Environmental Studies	15120	0	0	650,000	650,000
Total West Parkway Project		0	0	800,000	800,000
Outer Parkway	2050	•	-	333,333	000/000
CAPITALIZED PROJECT COSTS	01CAP				
CIP - Planning & Coordination	15100	0	0	250,000	250,000
CIP - Preliminary Engineering & Design	15110	0	0	400,000	400,000
CIP - Environmental Studies	15120	0	0	1,500,000	1,500,000
CIP - Public Presentations, RFP, RFQ, Bidding & Letting	15140	0	0	100,000	100,000
CIP - Right of Way	15200	0	0	300,000	300,000
Total Outer Parkway		0	0	2,550,000	2,550,000
FM 1925	2075				_,-
CAPITALIZED PROJECT COSTS	01CAP				
CIP - Planning & Coordination	15100	0	0	15,000	15,000
CIP - Preliminary Engineering & Design	15110	0	0	50,000	50,000
CIP - Environmental Studies	15120	0	0	35,000	35,000
Total FM 1925		0	0	100,000	100,000
West Rail Relocation	2100				,
CAPITALIZED PROJECT COSTS	01CAP				
CIP - Planning & Coordination	15100	0	24,952	0	(24,952)
CIP - Mitigation	15130	0	5,421	0	(5,421)
CIP - Right of Way	15200	775,000	799,332	0	(799,332)
CIP - Construction	15220	0	547,461	3,000,000	2,452,539
CIP - Construction Management	15240	0	0	500,000	500,000
CIP - Direct Legal Costs	15300	0	1,571	0	(1,571)
Total West Rail Relocation	15500	775,000	1,378,736	3,500,000	2,121,264
SH 550	2200	775,000	1,370,730	3,300,000	2,121,201
CAPITALIZED PROJECT COSTS	01CAP				
CIP - Planning & Coordination	15100	0	0	400,000	400,000
CIP - Praining & Coordination CIP - Preliminary Engineering & Design	15110	0	135,056	400,000	264,944
CIP - Environmental Studies	15120	0	1,806	0	(1,806)
CIP - Mitigation	15120	0	23,150	150,000	126,850
CIP - Midgation CIP - Public Presentations, RFP, RFQ, Bidding & Letting	15140	0	19,893	130,000	(19,893)
CIP - Construction	15220	0	0	6,000,000	6,000,000
CIP - Construction Management	15240	0	43,333	700,000	656,667
Total SH 550	132.0	0	223,238	7,650,000	7,426,762

Statement of Revenues and Expenditures - Unposted Transactions Included In Report From 6/1/2016 Through 6/30/2016 (In Whole Numbers)

	Current Period Actual	Current Year Actual	YTD Budget - Original	YTD Budget Variance - Original
2250				
01CAP				
15100	0	35,269	350,000	314,731
15110	0	12,182	0	(12,182)
15120	0	16,056	1,500,000	1,483,944
15200	0	0	300,000	300,000
	0	63,507	2,150,000	2,086,493
5000				
01CAP				
15140	0	11,632	0	(11,632)
15300	0	1,116	0	(1,116)
16000	0	177,009	0	(177,009)
02EXP				
70130	0	6,238	0	(6,238)
	0	195,995	0	(195,995)
	844,296	2,712,035	19,250,000	16,537,965
	01CAP 15100 15110 15120 15200 5000 01CAP 15140 15300 16000	Actual 2250 01CAP 15100 0 15110 0 15120 0 15200 0 5000 01CAP 15140 0 15300 16000 0 02EXP 70130 0	Actual Actual 2250 01CAP 15100	Actual Actual Original 2250 01CAP 15100 0 35,269 350,000 15110 0 12,182 0 15120 0 16,056 1,500,000 15200 0 0 300,000 0 63,507 2,150,000 5000 01CAP 15140 0 11,632 0 15300 0 1,116 0 16000 0 177,009 0 02EXP 70130 0 6,238 0 0 195,995 0

Balance Sheet As of 6/30/2016 (In Whole Numbers)

	Current Year
ASSETS	
Current Assets:	
Cash and cash equivalents	
CCRMA Claims Account	45,385
CCRMA Operating Fund	1,303,413
Toll Operators Cash	1,303,413
TxTag - Replenishment Account	6,086
CCRMA Bond/Debt Funds	393
Total Cash and cash equivalents	
Restricted cash accounts - debt service	1,355,337
CCRMA Toll Revenue Funds	44.614
	44,614
2010 A Bakk Bassaya	113,466
2010 A Debt Reserve	1,042,040
2010 A Debt Service	547,426
2010 B Debt Reserve	1,222,243
2010 B Debt Service	424,106
2012 Bond CAPI funds	144,323
2012 Bond Operating Fund	113,798
2012 Bond Project Funds	2,893,405
2012 Bonds Rate Stabilization Fund	1,346,675
2012 Bond Pledged Revenue	145,510
2012 Bonds Debt Service	515,948
2014 Refunding Series Escrow Account	671
2014 Refunding Series 10 Proceeds	5,125
Series 2014 Revenue and Tax	1,750
Total Restricted cash accounts - debt service	8,561,098
Accounts receivable	
Accounts Receivable - Customers	53,063
Vehicle Registration Fees - Receivable	612,656
Total Accounts receivable	665,720
Accounts receivable - other agencies	
Accounts Receivable - Other Agencies	0
Due from Other Agencies	51,318
Total Accounts receivable - other agencies	51,318
Prepaid expenses	,
Prepaid Rent	1,750
Prepaid Other Expense	525
Total Prepaid expenses	2,275
Total Current Assets:	10,635,748
Non Current Assets:	10,033,7 10
Capital assets, net	
Land & Right of Way	98,750
Buildings	202,803
Accumulated Depreciation-Buildings	(5,070)
Improvements	7,791
Accumulated Depreciation-Improvements	
	(87) 7 501 215
Furnishings & Equipment Accumulated Depreciation-Furnishings & Equipment	7,591,215
	(745,672)
Software & Technology	111,981
Accumulated Depreciation Software & Technology	(7,917)
Infrastructure & Utilities	64,200,349
Accumulated Depreciation-Infrastructure	(1,185,376)

Balance Sheet As of 6/30/2016 (In Whole Numbers)

	Current Year
Total Capital assets, net	70,268,768
Capital projects in progress	70,200,700
CIP - Planning & Coordination	774,383
CIP - Preliminary Engineering & Design	3,741,505
CIP - Environmental Studies	14,700,866
CIP - Mitigation	261,058
CIP - Public Presentations, RFP, RFQ, Bidding & Letting	42,800
CIP - Right of Way	822,045
CIP - Construction	547,461
CIP - Construction Management	43,333
CIP - Direct Legal Costs	242,908
CIP - Capitalized Interest CIP - Direct Administration	52,987
	161,004
CIP - Indirect Administration and Overhead	570,258
Total Social and interest and Process	411,811
Total Capital projects in progress	22,372,419
Other assets	45 202 250
Other Assets	45,203,258
Total Other assets	45,203,258
Unamortized bond prepaid costs	
2012 Bonds Prepaid Insurance	112,183
2014 Bond Prepaid Insurance	11,493
Total Unamortized bond prepaid costs	123,676
Total Non Current Assets:	137,968,121
Total ASSETS	148,603,869
LYADY TYPE	
LIABILITIES	
Current Liabilities	
Accounts payable	
AP - Operations	334,939
AP - Project Exenditures	337,244
Total Accounts payable	672,183
Accrued expenses	
TxTag Customer Deposits	1,718
Toll Refunds from MSB	3,999
Total Accrued expenses	5,716
Payroll liabilities	
Federal Tax Withholding	(8)
Payroll Tax Payable	9
Retirement Contribution Payable	3,190
Health Insurance Payable	800
Aflac Employee Liabilities	176
Dental Insurance Payable	(1)
Employee Vision Insurance	25
Total Payroll liabilities	4,190
Deferred revenue	
UFV Fund Deposits	1,856
Deferred Revenue	2,003
Total Deferred revenue	3,858
Total Current Liabilities	685,948
Non Current Liabilities	
Due to other agencies	
and the state of t	

Balance Sheet As of 6/30/2016 (In Whole Numbers)

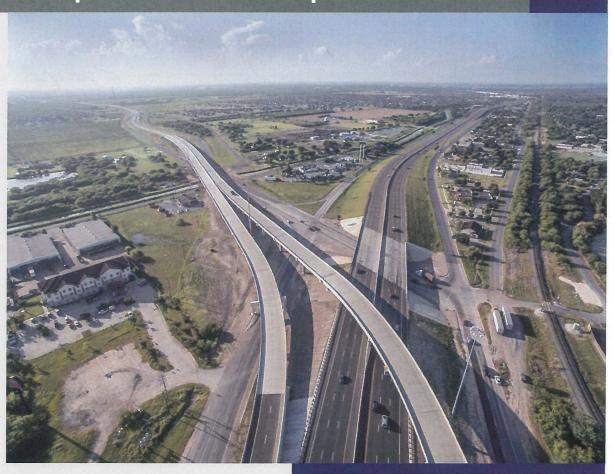
	Current Year
Cameron County	167,500
Due to other Entity's	2,104,186
Total Due to other agencies	2,271,686
Due to TxDot	
Union Pacific - West Rail Project	28,914,071
Union Pacific - Olmito Switchyard	9,919,811
TxDot FAA - South Padre Island	11,615,482
TxDot FAA - West Parkway	2,244,589
Total Due to TxDot	52,693,952
Long term bond payable	
2010A Bonds Payable	4,480,000
2010A Unamortized Premium	15,290
2010B Bonds Payable	15,535,000
2012 Bonds Payable	40,000,000
2012 Unamortized Premium	4,011,379
2014 Bonds Payable	5,000,000
2014 Bond Premium	154,653
2010A Refund Series 2014	6,325,000
2010A Refund Premium Series 2014	117,507
2010A Refunding Deferred Charge 2014 Series	37,456
2015 CO Bonds	4,500,000
2015 CO Bonds Discount	(38,768)
Total Long term bond payable	80,137,517
Total Non Current Liabilities	135,103,155
Total LIABILITIES	135,789,104
NET POSITION	
Beginning net position	
	7,818,176
Total Beginning net position	7,818,176
Changes in net position	
	5,093,830
Total Changes in net position	5,093,830
Total NET POSITION	12,912,006
TOTAL LIABILITIES AND NET POSITION	148,701,110

Statement of Cash Flows As of 6/30/2016

	Current Period	Current Year
Cash Flows from Operating Activities		
Receipts from Vehicle Registration Fees	305,310.00	2,037,770.00
Receipts from Toll Revenues	80,716.43	825,293.91
Receipts from other Operating Income	0.00	1,854,016.50
Payments to Vendors	(124,720.73)	(787,189.95)
Payments to Employees	(49,311.63)	(541,492.32)
Total Cash Flows from Operating Activities	211,994.07	3,388,398.14
Cash Flows from Capital and related Financing Activities		
Acquisitions of Property and Equipment	0.00	(162,087.50)
Receipts from Grants and Other income	392.22	10,917.76
Payments on Interest	0.00	(2,667,957.50)
Acquisitions of Construction in Progress	(917,809.32)	(3,154,424.45)
Proceeds from TxDot FAA	80,817.03	554,654.62
Proceeds from Other Governments	0.00	89,758.03
Total Cash Flows from Capital and related Financing Activities	(836,600.07)	(5,329,139.04)
Net Increase (Decrease) in Cash & Cash Equivalents	(624,606.00)	(1,940,740.90)
Beginning Cash & Cash Equivalents		
	(1,316,134.90)	0.00
Ending Cash & Cash Equivalents	(1,940,740.90)	(1,940,740.90)

2016

Toll Operations Report - June



Liz Ponce, Toll Operations

Supervisor

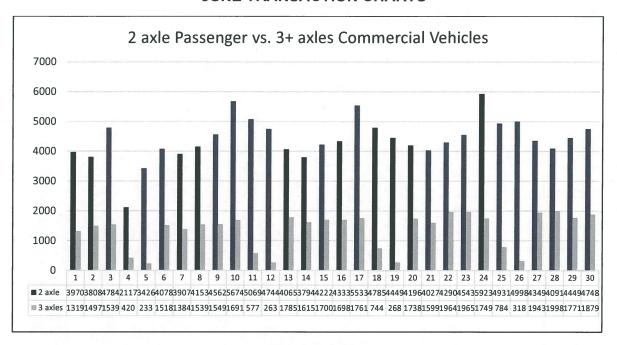
7/1/2016

CGRIMA

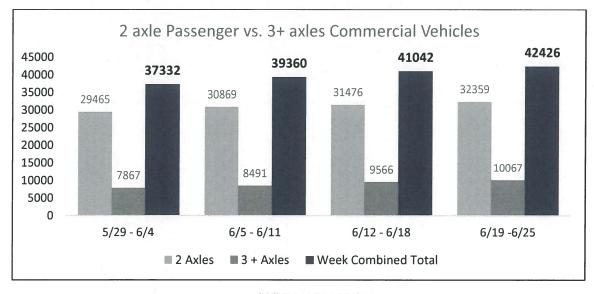
Toll Operations

The month of June has been a busy month for all aspects of operations. June has shown a slight increase in traffic on the SH 550 from May. June transactions totaled 172,826 of which 31% is commercial traffic. We are starting to see an increase in traffic primarily due to summer vacation.

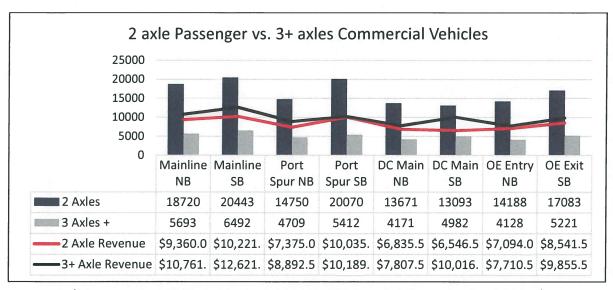
JUNE TRANSACTION CHARTS



[DAILY TRAFFIC]

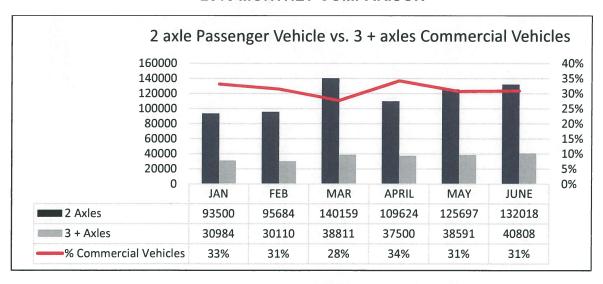


[WEEKLY TRAFFIC]

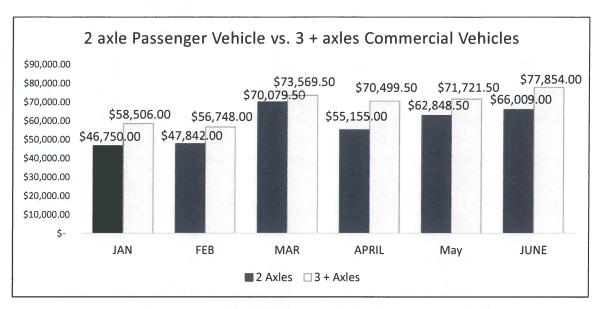


MONTHLY TRAFFIC BY PLAZA - Our plaza transactions trends show that our busiest plazas are those going south bound towards the Port of Brownsville/SH 48. Return traffic leads us to believe that traffic is coming from the northern part of the County. In the upcoming months it is the goal of operations to come up with ways to target this group in order to continue to increase traffic and increase tag penetration rate.

2016 MONTHLY COMPARISON

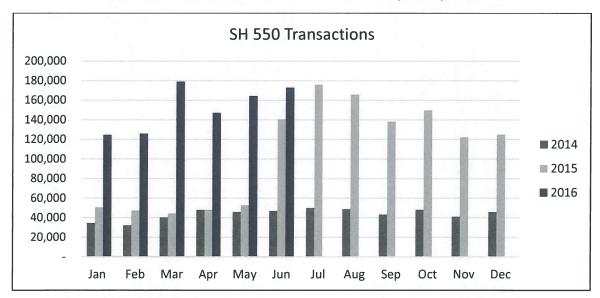


[MONTHLY TRAFFIC AND COMMERCIAL PERCENTAGE]



[REVENUE BY MONTH FOR 2016]

SH 550 TRANSACTION DATE FOR 2014, 2015, AND YTD



THREE YEAR COMPARISON – Last year in June was the opening of the final tolling phase of the SH 550, the Direct Connector. The opening of the DC Plaza allowed us to offer customers a month long trial period where that DC Plaza was free. Even with the free period this year we have surpassed the transactions from last year by 23%.

TxTag Update

Part of our operations include assisting customers with their TxTag accounts. This month we enrolled a total of 19 vehicles at our office. We also processed \$247.86 in payments and replenishments. This month we have seen a slight increase compared to the previous month of 15 vehicles and \$238.61 in payments and replenishments.

By providing customers with an alternative location and method to manage their TxTag account we hope to increase our tag penetration rate. It is also our goal to help keep customers enrolled with their TxTag and on our road. June tag penetration rate is approximately 29%. However, we hope that it will increase when we initiate the interoperability with the Pharr Bridge as well as our other efforts. The current tag rate assuming the interoperability was in place with Pharr would be 39%.

SH 550 Tag Penetration Rate 2016 YTD					
January	124484	47875	35099	28%	
February	125794	48282	36773	29%	
March	178970	56589	42071	24%	
April	147124	44533	34286	23%	
May	164288	66999	51583	31%	
June	172826	67372	50479	29%	

^{*}Tags include NTTA, HCTRA, TXTAG, & Pharr Bridge

United For Veterans Update

Like our monthly transaction increase the usage by disabled veterans has also increased from the previous month. In the month of June, we enrolled 3 disabled veterans into the program. We replenished \$100.15 back into the registered TxTag accounts. Our goal is to continue assisting disabled veterans with their accounts and work towards informing more disable veterans of our program. We are currently working on flyers to distribute with information regarding the program.

Court Violation Process

Since our court enforcement program initiated in January of this year we have referred a total of 56 cases to the Cameron County JP's office and a total of 13 cases have paid

their balance to the court. Out of the 13 cases that have been paid off only two have made payment plan options and one has completely paid off their outstanding tolls. From the remaining cases, two cases have not paid the JP's office but have made a payment plan arrangement with CCRMA and are paying off their outstanding balance, and one has completely paid off his balance. I will be sending an additional 53 cases to the JP's office in the coming month. As well as speak with the JP's office to come up with more effective court process.

Back Office Update

During the month of June we had the opportunity to visit two well established entities that manage their own back office. We visited CFX in Orlando, Florida and SRTA in Atlanta, Georgia. The reason for the visit was to obtain information that would be beneficial and helpful for us as we work on implementing our new back office.

On our visits, we were able to speak with the directors of operations as well as supervisors in the different departments. We were also given the opportunity to sit directly with the employees in the call center, in image review, payment processing, quality control, mail room, and sit in on a court hearing. Getting to meet these group of people taught us a lot and we were able to bring back a lot of good insight that we hope to incorporate into our operations process.

Moreover, when it comes to the actual back office implementation, we continue to make progress with TollPlus. We have send them updated business rules, flow charts for court, payment plans, and disputes, this will help with the design of the system. We are also close to finishing the setup of the court process on the TBOS.

We have finalized our decision to pursue in house mailing and are working to sign a contract with Satori Software and register for a USPS permit number.

Furthermore, we are in the process of installing carpet in our future image review room, break room, and current customer service area. The purpose of the carpet is to minimize noise levels and the echo in the room so that whenever the CSR's are speaking with a customer on the phone they won't hear so much background noise.

We are also working closely with Marketing to improve the design of our toll bills and other letter correspondence. The purpose of redesigning our bills and letters is to communicate the important information to the customer in a more effective matter. Currently, the letters have been given to marketing to review and start the revamp process.

4-C CONSIDERATION AND APPROVAL OF WORK AUTHORIZATION NO. 5 BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND S&B INFRASTRUCTURE FOR THE OUTER PARKWAY PROJECT



To: CCRMA Board of Directors

From: Pete Sepulveda, Jr., Ex. Director

Date: July 14, 2016

Subj: Item-3C 4C

The purpose of this memorandum is to give you an update on the Advanced Planning and Project Development of the Outer Parkway Transportation Project. During the last several months I have conducted numerous meetings with both TxDOT- Environmental Affairs Division (ENV) in Austin and with the TxDOT Pharr District in anticipation of preparing the Environmental Studies for the Outer Parkway Project. The TxDOT Pharr District Office and TxDOT ENV have been a great help as we move forward in this process. A project schedule has been developed with input from the Pharr District Office. Below is an outline of the different tasks that the Outer Parkway Transportation Project will require to enable us to move forward with construction for this very important project:

ENGINEERING

Route and Design Studies – These studies would require Project Administration and Coordination, Data Collection, Right-of-Way Mapping, a Design Concept Conference with TxDOT, Geometric Layout (Schematic Plans, Toll Facility Study, Financial and Project Management plan, Interchange Development, Interstate Access, Base and Soil Testing, Traffic Forecasting and Traffic Operations Analysis).

<u>Field Surveying and Photogrammetry</u> – Field surveys, (Horizontal and Vertical) and low level photogrammetry. The field surveying and photogrammetry will include field surveying, low altitude aerial mapping engineering design surveying, geotechnical bore hole surveys and staking of the proposed right of way.

The route and design studies consist of general project administration and coordination for the EA. It includes schematic plans, traffic operation analysis and soil testing & drilling. In addition, the right of way footprint will be done during this phase of the work authorization. It also includes a design concept conference, the schematic design and development including design cross sections, traffic control and construction sequencing, hydraulic studies, drainage design, the preliminary engineering report and the preliminary bridge layout preparation. The submittals will be made at 30% complete, 60% complete, 90% complete and 100% complete.

Submittals will be made to TxDOT design division for approval. An interim financial plan addressing the financial feasibility of the project and a project management plan will also be developed as part of this work authorization.

Environmental Studies – Public Involvement, Technical Reports and EA.

The social, economic and environmental studies include public involvement through the development of a project website as a way of keeping the public informed of the progress of the project and development of the EA. The EA will incorporate documentation of land use and social and economic conditions, farmland, soils geology, air quality assessment, traffic noise analysis, water quality issues, waters of the U.S., including wetlands, water body modifications and wildlife habitat, invasive species and beneficial landscaping, essential fish habitat consultation, floodplains, vegetation communities/wildlife habitat and threatened and endangered species and consideration of pedestrian and bicycle facilities. In addition, the project will require U.S. Fish & Wildlife Service/National Oceanic and Atmospheric Administration coordination for Section 7 consultation and coordination for compliance with the Marine Mammal Protection Act, development of a mitigation plan, preparation of archeological studies, historic resource studies, hazardous material studies, documentation of visual impacts and indirect and cumulative impacts, construction impacts and identification of Section 4F properties. In addition a permit from the U.S. Army Corps of Engineers, and the U.S. Coast Guard would be required for the bridge that would span the Arroyo Colorado.

The GEC will perform independent project oversight and coordination duties for each task and subtask as detailed in the work authorization to ensure that the EA is completed in a timely manner and acceptable for presentation to TxDOT ENV.

The scope and fee (Number of hours by task and subtask for GEC and sub consultants) have been reviewed by CCRMA staff and staff at the TxDOT District office. This scope will allow us to comply with the National Environmental Policy Act (NEPA) process and complete the environmental process and will position us to receive a Finding of No Significant Impact (FONSI) or environmental clearance.

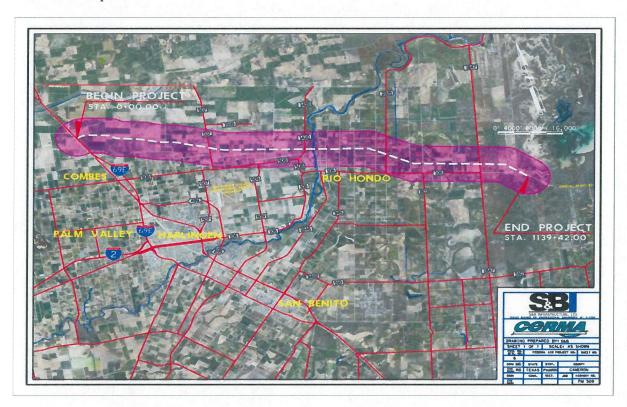
Staff recommends approval of the scope and fee. TxDOT toll equity funds will be used for this work authorization. TxDOT District Office has reviewed and approved the scope and fee.

If you have any questions, let me know.

WORK AUTHORIZATION NO. 6

This Work Authorization is made as of this day of July, 2016, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated as of November 1, 2014 (the "Agreement"), between the Cameron County Regional Mobility Authority ("Authority") and S&B Infrastructure, Ltd. ("GEC"). This Work Authorization is made for the following purpose, consistent with the services defined in the Agreement.

Professional services including: Advance Project Development for the Outer Parkway as illustrated by the location map below.



Section A. - Authority's Responsibilities

The Authority shall perform and/or provide the following in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance with the following:

Reference Exhibit A – Authority's Responsibilities

Section B. - Scope of Services

B.1 GEC shall perform the Services:

Reference Exhibit B – Services to be provided by the GEC

B.2 The following Services are not included in this Work Authorization, but shall be provided as Additional Services if authorized or confirmed in writing by the Authority.

N/A

B.3 In conjunction with the performance of the foregoing Services, GEC shall provide the following submittals / deliverables (Documents) to the Authority.

Reference Exhibit B – Services to be provided by the GEC

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule:

This Work Authorization No. 6 shall become effective July 4, 2016 and shall terminate on December 31, 2017, unless extended by a Supplemental Work Authorization. The deliverable (application) shall be made by December 31, 2017.

Section C. - Compensation

- C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed \$2,584,326.86 based on the attached fee estimate as shown in Exhibit C. Compensation shall be in accordance with the Agreement.
- C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

Section D. - Other Provisions

The parties agree to the following provisions with respect to this specific Work Authorization: N/A

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

Authority: Cameron County Regional GEC: S&B Infrastructure, Ltd.

Mobility Authority

By: Frank Parker, Jr. By: Daniel O. Rios, PE

Signature:

Title: Chairman

Signature: Title:

Date:

Senior Vice Presiden

Exhibits:

Exhibit A – Services to be provided by the Authority

Exhibit B – Services to be provided by the GEC

Exhibit C – Fee Estimate

EXHIBIT A SERVICES TO BE PROVIDED BY THE AUTHORITY

Outer Parkway APD

County:

Cameron

Highway:

Outer Parkway

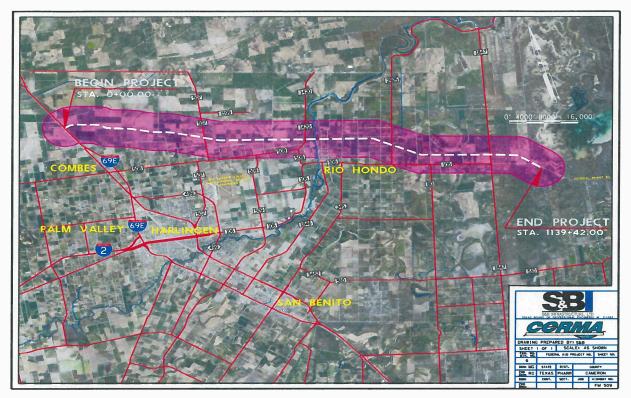
Limits:

From: FM 106 (General Brandt) to I-69E (US 77)

Project Length:

Approximately 21.56 miles

LOCATION MAP:



In addition to the services listed in the Agreement, the Cameron County Regional Authority (AUTHORITY) will provide the following services:

- 1. The AUTHORITY will collect and provide hard copy and digital copy of previously completed work, cost estimates, design files for exhibits, record drawings, public involvement, traffic data for roadway, property ownership digital mapping, survey ground control and public utility information as required to complete the task.
- 2. The AUTHORITY shall provide timely approvals and responses, enabling the project to move forward smoothly and with minimal delay. When delays in issuing approvals and responses are anticipated by the AUTHORITY, the AUTHORITY will communicate this to the CONSULTANT and allow project schedule to be adjusted accordingly.

EXHIBIT B SERVICES TO BE PROVIDED BY THE CONSULTANT

Outer Parkway APD

County:

Cameron

Highway:

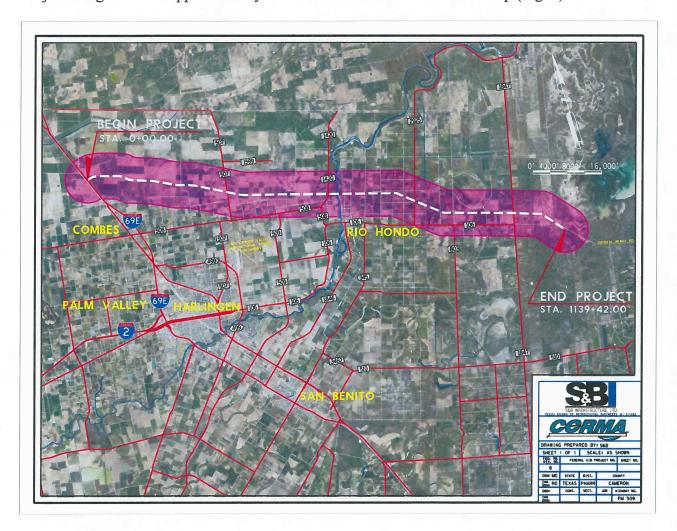
Outer Parkway

Limits:

From: FM 106 (General Brandt) to I-69E (US 77)

Project Length:

Approximately 21.56 miles See Below Location Map (Fig. 1)



Project Overview:

The CONSULTANT under this Work Authorization will provide engineering and environmental services associated with the development and advancement of the National Environmental Policy Act (NEPA) process for the proposed Outer Parkway Project, when used in conjunction with existing roadways will provide an additional east-west roadway to funnel traffic from coastal areas to I-69E, will provide an alternative route for police, fire and medical services; thus, facilitating efficient and timely emergency response. The tasks associated with this project will include the development of the necessary environmental documentation, corridor alternatives assessments and

related public involvement activities within a 22 month period. The assumption for Project Management services is reflected for a 22 month period.

Corridor Refinement/Schematic/Environmental Process Completion – Tasks include the refinement of the corridor identified by previous CONSULTANTS (by narrowing the corridor down from ½ mile wide to 1000 feet wide), property owners in the immediate vicinity of the project will be notified and afforded an opportunity to provide feedback, specific alignment will be developed and a right-of-way footprint established, development of the schematic design, agency coordination and the appropriate environmental documentation for connections to roadways on the State Highway System.

The CONSULTANT will perform these tasks according to Exhibit C, Work Schedule. The CONSULTANT will function as an extension of the AUTHORITY's resources by providing qualified technical and professional personnel. Services to be provided by the CONSULTANT will be performed under the direction of the AUTHORITY for each task described below for the project limits depicted in Figure 1.

SCOPE OUTLINE:

TASK 110 – ROUTE AND DESIGN STUDIES

Task 110.01 – DATA COLLECTION/EXISTING CONDITION ANALYSIS

Subtask 110.01.01 - Data Collection

Subtask 110.01.02 – Existing Condition Analysis

Subtask 110.01.03 – Right-of-Way (ROW) Research and Mapping

Subtask 110.01.04 – Alternative Analysis

Task 110.02 – PRELIMINARY ENGINEERING SERVICES

Subtask 110.02.01 – Preliminary Design Concept Conference

Subtask 110.02.02 – Preliminary Horizontal and Vertical Conceptual Design (Part of Subtask 110.01.04)

Subtask 110.02.03 - Preliminary ROW Requirements - Preferred Alternative

Subtask 110.02.04 – Preliminary Utility Location Investigations – Preferred Alternative

Subtask 110.02.05 – Preliminary Hydraulic Evaluations (Part of Subtask 110.01.04)

Subtask 110.02.06 - Preliminary Construction Cost Estimate - Preferred Alternative

Subtask 110.02.07 - Preliminary Constructability Reviews - Preferred Alternative

Subtask 110.02.08 – Preliminary Engineering Text and Coordination for EA

Development – Preferred Alternative

Task 110.03 - GEOMETRIC LAYOUT (SCHEMATIC PLAN) DEVELOPMENT

Subtask 110.03.01 – Typical Sections

Subtask 110.03.02 – Geometric Design (Horizontal and Vertical Control)

Subtask 110.03.03 – Preliminary Design Cross Sections

Subtask 110.03.04 - Preliminary Traffic Control and Construction Sequencing

Subtask 110.03.05 - Schematic Plan Preparation

Subtask 110.03.06 – Hydrology and Hydraulic Studies/Drainage Design

Subtask 110.03.07 – Preliminary Bridge Layout Preparation (Typical Bent Sizing and #)

TASK 110.04 – PRELIMINARY ENGINEERING REPORT (PER) PREPARATION

Subtask 110.04.01 - PER

Task 110.05 – MILESTONE SUBMITTALS AND REVIEW

Subtask 110.05.01 – 30% Complete Schematic Review Package

Subtask 110.05.02 – Preliminary Design Cross Sections

Subtask 110.05.03 – 60% Complete Schematic Review Package

Subtask 110.05.04 – 90% Complete Schematic Review Package

Subtask 110.05.06 – TxDOT Review

Task 110.06 – BASE AND SOIL TESTING AND CORE DRILLING

Subtask 110.06.01 – Geotechnical Drilling Services

Subtask 110.06.02 – Geotechnical Laboratory Testing Services

Subtask 110.06.03 – Geotechnical Engineering Services

Subtask 110.06.04 – Preliminary Pavement Design

Task 110.07 – TRAFFIC FORECASTING Requirement to be Determined as Project Progresses

Task 110.08 – TRAFFIC OPERATIONAL ANALYSIS Requirement to be Determined as Project Progresses

Task 110.09 – INTERCHANGE DEVLEOPMENT Subtask 110.09.01 – Interchange Layout/Design

Task 110.10 – INTERSTATE ACCESS JUSTIFICATION REPORT (IAJR) Subtask 110.10.01 – Development of Interchange Justification Report

TASK 120 – SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES

Task 120.01 - PUBLIC INVOLVEMENT

Subtask 120.01.01 - Mailing List

Subtask 120.01.02 - Public Involvement Plan

Subtask 120.01.03 - Public Meetings

Subtask 120.01.04 – Public Hearing

Task 120.02 - ENVIRONMENTAL DOCUMENTATION

Subtask 120.02.01 – Development of Study Area and Constraints Mapping

Subtask 120.02.02 - Purpose and Need

Subtask 120.02.03 – Alternatives Development and Analysis

Subtask 120.02.04 - Project Scoping Coordination

Subtask 120.02.05 - Land Use

Subtask 120.02.06 - Farmland, Soils, and Geology

Subtask 120.02.07 - Socioeconomic and Environmental Justice

Subtask 120.02.08 - Water Resources

Subtask 120.02.09 - Historic Resources

Subtask 120.02.10 – Archeological Resources

Subtask 120.02.11 – Vegetation and Wildlife

Subtask 120.02.12 - Threatened and Endangered Species

Subtask 120.02.13 - Traffic Noise

Subtask 120.02.14 – Air Quality

Subtask 120.02.15 – Hazardous Materials

Subtask 120.02.16 – Indirect and Cumulative Impacts

Subtask 120.02.17 - Other Environmental Resources

Subtask 120.02.18 – Document Preparation and Comment/Response

Subtask 120.02.19 – Preparation of Final NEPA Document

TASK 145 - PROJECT ADMINISTRATION AND COORDINATION

Subtask 145.01.01 – General Administration

Subtask 145.01.02 – Project Coordination Meetings

Subtask 145.01.03 - Cameron County RMA Project Coordination

TASK 150 – FIELD SURVEYING AND PHOTOGRAMMETRY

Task 150.01 - FIELD SURVEYING

Subtask 150.01.01 – Horizontal and Vertical Control

Subtask 150.01.02 – Ownership Research and Permission to Survey

Subtask 150.01.03 - Supplemental Engineering Design Surveying (Recommended

Preferred Alternative Alignment)

Subtask 150.01.04 – Geotechnical Bore Hole Surveys

Subtask 150.01.05 - Proposed ROW Staking

Subtask 150.01.06 - Hydraulic Cross Sections

Task 150.02 - .LAS FILE PROCESSING

Subtask 150.02.01 – ABGPS/IMU Post Processed

Subtask 150.02.02 - .LAS Development

Subtask 150.02.03 - Ground Control/Check Points

Task 150.03 – QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)

Subtask 150.03.01 – Planimetric Mapping from Airborne Data

Subtask 150.03.02 – Digital Terrain Model (DTM)

SCOPE DETAILS:

The following Scope of Work describes the task details that are included in the Services to be provided by the CONSULTANT in the Work Authorization.

TASK 110 – ROUTE AND DESIGN STUDIES

Subtask 110.01.01 – Data Collection

The CONSULTANT will collect information required for an alternative analysis. Additional information will also be required in the development of the recommended preferred alternative. It is anticipated that the project will have three (3) reasonable alternatives including one (1) recommended preferred alternative. The CONSULTANT will review previously assembled and documented project data and supplement it for the alternatives as necessary and /or as deemed necessary by the AUTHORITY, including:

- A) Field Reconnaissance, photographs, mapping data, seasonal traffic data, transportation reports, regional master plans the CONSULTANT will conduct detailed field reconnaissance for the reasonable alternatives to establish the validity of previously collected data and supplement data where necessary.
- B) Update summary document listing data collected, basic information on data collected and how it will, may be or has been applied.

Subtask 110.01.02 – Existing Condition Analysis

The CONSULTANT will assess the exiting conditions of the reasonable alternatives (3) and provide an overall analysis of the existing conditions and features for each. Site visits and field investigations will be utilized to augment existing data and fill data void. This assessment will include:

- A) Geometric Features Assess public ROW widths and easements along the proposed route, horizontal and vertical alignments of I-69E, FM 507, FM 1420, FM 2925, FM 1847 and major cross streets, pavement cross sections and pavement types, intersections lane widths and configurations and stopping sight distances.
- B) Traffic Control / Illumination Features Assess existing signing features, safety lighting and continuous illumination requirements and warrants.
- C) Accident Data Accident frequencies and their critical locations.
- D) Drainage Data Drainage and irrigation structures.
- E) Environmental Features and Constraints including but not limited to the identification of wetlands, special aquatic sites, habitat features, parklands and managed lands, cultural resources, neighborhoods and existing / proposed development.
- F) The CONSULTANT will obtain necessary project-related Geographic Information System (GIS) based roadway map data and aerial photography for the project study area provided by the AUTHORITY (Some or all of this data may have already been provided to the CONSULTANT in connection with other ongoing projects).
- G) The CONSULTANT will obtain from the AUTHORITY an electronic copy of the approved

MPO TransCAD model.

H) Prepare summary document describing assessments of existing condition analyses.

Deliverables:

• Existing Conditions Summary Report

Subtask 110.01.03 – Right-of-Way (ROW) Research and Mapping

The CONSULTANT will review existing ROW information provided by the AUTHORITY and will develop preliminary ROW ownership maps (based upon existing mapping and topography) showing existing apparent ROW lines. These apparent ROW lines will be used to delineate the existing ROW limits on the alternative layouts. The CONSULTANT will also obtain uncontrolled property line information from the Cameron County Appraisal District property tax roll maps and best fit the property lines to the alternative base map.

Deliverables:

- Update summary documents on existing conditions
- Draft Property Ownership lines in electronic format and an alternative base map

Task 110.01.04 – Alternative Analysis

These Route and Design Studies services shall apply to all three (3) reasonable alternative alignments.

- A) Preliminary Horizontal Conceptual Design The CONSULTANT will prepare conceptual horizontal design for three conceptual alignments. A typical intersection design detail will be prepared for the intersections at U.S. 77, FM 507, FM 1420, FM 2925, FM 1847 and FM 106/General Brant Road. Coordination with Environmental team will be required during alignment refinements as drawings will be developed for use of determining environmental impacts. Should additional horizontal alignments be prepared, a supplemental work authorization will be required.
- B) Preliminary ROW Requirements Preliminary ROW requirements for 3 conceptual designs shall be determined using roadway functional classification, consideration of environmental impacts, design criteria, drainage requirements and typical sections. The proposed roadway improvements, with appropriate design criteria, shall be noted on the typical sections. Preliminary ROW requirements and opinion of costs will be tabulated. A preliminary ROW technical memorandum that documents and describes the ROW requirements and associated opinion of ROW acquisition costs shall be prepared. ROW acquisition costs will be based on current appraisal values obtained from the Cameron County Appraisal District for the specific parcels to be acquired.
- C) Preliminary Utility Location Investigations The CONSULTANT will investigate the utility impacts for each conceptual design alternative for potential conflicts.

D) Preliminary Hydraulic Evaluations - For each reasonable alternative alignment, the CONSULTANT will perform a preliminary drainage evaluation. The CONSULTANT will coordinate with the AUTHORITY, GEC OVERSIGHT TEAM and TxDOT as needed to provide continuity and consistency of the preliminary analysis of the proposed drainage features and systems. The CONSULTANT will adhere to the criteria set forth by the AUTHORITY in the hydrology and hydraulic design guidelines technical memorandum.

The CONSULTANT will include significant preliminary hydrologic and hydraulic considerations in the development and assessment of alternative alignments for the project. Significant preliminary considerations include preliminary assessment of design elevations for various modes to ensure desired performance for hurricane evacuation and a preliminary assessment of the impacts to FEMA-regulated floodplains and.

The CONSULTANT will obtain Local and Regional Drainage analysis guidelines through coordination with local and regional Drainage authorities.

Tasks to be performed by the CONSULTANT to accomplish a preliminary hydrology and hydraulic assessment include, field investigations, data gathering, agency coordination, and determination of issues/concerns and how drainage would be handled. No calculations will be conducted until a recommended preferred alignment is identified and the CONSULTANT has been notified by the AUTHORITY to perform the preliminary calculations associated with the assessment. Tasks include the following:

- 1) Field Investigations and Data Gathering.
 - a. Obtain relevant existing hydrologic and hydraulic models if available.
 - b. Obtain and evaluate available studies and reports relevant to hydrologic and hydraulic design.
 - c. Investigate applicable design criteria, regulations, and guidance.
- 2) For each alternative, identify:
 - a. Issues/Concerns.
 - b. Drainage handling.
- 3) Agency Coordination
- a. FEMA coordination The CONSULTANT shall identify and document issues that will require coordination with FEMA, Cameron County, City of Harlingen, City of Rio Hondo, including a discussion on the cities' participation in the National Flood Insurance Program, location of existing and proposed floodplain encroachments, impacts of improvements on floodplains and need for future map revisions (CLOMRs/LOMRs). The CONSULTANT shall develop a preliminary technical summary and provide it to the AUTHORITY in support of the discussion regarding affects the project has on FEMA designated SFHAs.
- b. Drainage and Water District coordination The CONSULTANT shall coordinate with Cameron County, City of Harlingen, City of Rio Hondo, Cameron County Irrigation District No. 1, Cameron County Drainage District No. 1 and the Laguna Madre Water District for issues including outfall of storm water runoff into the neighboring drainage channels, as necessary. This coordination may include consideration of industrial stormwater or wastewater discharges in these districts.

- c. Corps of Engineers coordination If the AUTHORITY is issued a judgement by the USACE in which the USACE finds that waterways associated with the project do fall under the USACEs jurisdiction then the AUTHORITY will direct the CONSULTANT to further coordinate with the USACE. For this subtask, avoidance and mitigation relative to wetlands, Waters of the U.S. and current navigation features will be considered during the preliminary hydrologic and hydraulic assessment to limit future permitting issues.
- d. Other Agencies Other agencies identified during the data gathering phase of this task will be contacted as necessary in relation to the preliminary drainage assessment.
- E) Preliminary Construction Cost Estimates The CONSULTANT will prepare a preliminary opinion of probable construction cost for the preferred alternative that includes preliminary ROW costs, landscape costs and utility adjustments. Unit costs will be based statewide and/or Pharr District average unit prices, from the TxDOT website. Preliminary cost estimates will include an approximate 20% contingency and shall be updated for every stage of the milestone completion in a higher degree of detail, as more information is obtained and developed.

Because the CONSULTANT has no control over the cost of labor, materials or equipment furnished by others or over the resources provided by others to meet project schedules, the CONSULTANT'S opinion of probable costs and of project schedules shall be made on the basis of experience and qualifications as a professional engineer. The CONSULTANT does not guarantee that proposals, bids or actual project costs will not vary from the CONSULTANT's cost estimates or that actual schedules will not vary from the CONSULTANT's projected schedules.

Deliverables:

- Alternative Analysis Report
 - o Alternative Descriptions/Conceptual Design
 - o Preliminary ROW Requirements
 - o Preliminary Utility Matrix
 - Preliminary Construction Estimate
 - Preliminary Hydraulic Structure Sizing

TASK 110.02 – PRELIMINARY ENGINEERING SERVICES

These preliminary engineering services shall apply to all three (3) reasonable alternative alignments.

Subtask 110.02.01 – Preliminary Design Concept Conference

A) The CONSULTANT will prepare the draft Design Summary Report (DSR) for the Preliminary Design Concept Conference (PDCC). The draft DSR information will include the PDCC comments and concurrence, suggested attendance and suggested agenda. The

draft DSR will be submitted to the AUTHORITY for review prior to conducting the PDCC.

- B) The CONSULTANT, in cooperation with the AUTHORITY, will conduct and document the PDCC meeting. The CONSULTANT will provide up to two (2) copies of plots, plans and related drawings of recommended alternative (1 anticipated) as appropriate for the PDCC meeting. The conference will provide for a brainstorming session in which decision makers, stakeholders and technical personnel may discuss and agree on the following:
 - 1) Review of DSR.
 - 2) Establish design parameters for geometrics.
 - 3) Identify the key engineering and environmental constraints.
 - 4) Specific issues for focus during the engineering plan development.
 - 5) Identification of desired bicycle and pedestrian facilities and amenities.
 - 6) Identification of potential landscape and hardscape improvements and locations in accordance with the CSS findings.
 - 7) Project development schedule
 - 8) Other issues as identified by the AUTHORITY.
- C) Within one (1) week after conducting the PDCC, the CONSULTANT will submit three (3) revised draft copies of the DSR to the AUTHORITY for review and approval. After AUTHORITY comments are incorporated, the CONSULTANT will prepare five (5) copies of the final DSR and submit along with meeting minutes to the AUTHORITY.

Deliverables:

- Design Summary Report 3 draft copies and 5 final copies
- PDCC Meeting minutes

Subtask 110.02.02 - Preliminary Horizontal and Vertical Conceptual Design

Part of Subtask 110.01.04.

Subtask 110.02.03 – Preliminary ROW Requirements – Preferred Alternative

Preliminary ROW requirements shall be determined using roadway functional classification, consideration of environmental impacts, design criteria, access denial limits (control of access), utility corridor space requirements, drainage requirements and typical sections. The proposed roadway improvements, with appropriate design criteria, shall be noted on the typical sections. Preliminary ROW requirements and opinion of costs will be tabulated. A preliminary ROW technical memorandum that documents and describes the ROW requirements and associated opinion of ROW acquisition costs shall be prepared. ROW acquisition costs will be based on current appraisal values obtained from the Cameron County Appraisal District for the specific parcels to be acquired. At this time it is anticipate a 150' ROW will be utilized.

Deliverables:

• Preliminary ROW technical memorandum

Subtask 110.02.04 – Preliminary Utility Location Investigations – Preferred Alternative

A) The CONSULTANT will utilize existing plans; coordinate with utility companies, and visual

field confirmation in the development of a preliminary utility location map.

B) The CONSULTANT will participate in up to three (3) coordination meetings with designated AUTHORITY representatives and the utility companies' representatives to identify / confirm existing / proposed utilities, potential conflicts, review coordination progress and resolve outstanding issues.

Subtask 110.02.05 - Preliminary Hydraulics Evaluations

Part of Subtask 110.01.04.

Subtask 110.02.06 – Preliminary Construction Cost Estimates – Preferred Alternative

For the the preferred alternative alignment and applicable modes, a preliminary opinion of probable construction cost that includes preliminary ROW costs, landscape costs and utility adjustments, will be prepared by the CONSULTANT. Unit costs will be based statewide and/or Pharr District average unit prices, from the TxDOT website. Preliminary cost estimates will include an approximate 20% contingency and shall be updated for every state of the milestone completion in a higher degree of detail, as more information is obtained and developed.

Because the CONSULTANT has no control over the cost of labor, materials or equipment furnished by others or over the resources provided by others to meet project schedules, the CONSULTANT'S opinion of probable costs and of project schedules shall be made on the basis of experience and qualifications as a professional engineer. The CONSULTANT does not guarantee that proposals, bids or actual project costs will not vary from the CONSULTANT's cost estimates or that actual schedules will not vary from the CONSULTANT's projected schedules.

Subtask 110.02.07 - Preliminary Constructability Reviews - Preferred Alternative

The CONSULTANT will participate in constructability review for the project. Constructability reviews will be conducted on the preferred alternative alignment. The review will consider the constructability of the alternative based on known construction techniques and their relative cost and construction impacts to the surrounding area due to the various techniques.

Subtask 110.02.08 – Preliminary Engineering Text and Coordination for EA Development – Preferred Alternative

The CONSULTANT will prepare a draft text summarizing the findings of the various engineering studies and investigations.

- A) Summary of data collected and how it will, may be or has been applied.
- B) Photographic record of the project area.
- C) Summary of existing condition analysis.
- D) Alternatives assessment documentation report.
- E) DSR.
- F) Plan exhibits
- G) Preliminary ROW technical memorandum.
- H) Summary of preliminary utility conflict.
- I) Preliminary construction cost estimates.

TASK 110.03 – GEOMETRIC LAYOUT (SCHEMATIC PLAN) DEVELOPMENT

The CONSULTANT will develop a schematic plan of the Recommended Preferred Alternative. Preliminary design considerations will include the following: design criteria (operation/safety), ROW requirements and project costs.

Subtask 110.03.01 – Typical Sections

The CONSULTANT will develop applicable typical sections of existing and proposed roadways at a proportional scale for incorporation into the schematic layout document. Typical section will include the following design elements:

- A) Centerline alignment.
- B) Profile grade line.
- C) ROW width (existing and proposed).
- D) Limits of proposed roadway.
- E) Concrete traffic barrier railing or fencing.
- F) Illumination.
- G) Median width (raised, depressed, painted) and slope.
- H) Sign structures.
- I) Shoulder widths.
- J) Curbs and curb offsets
- K) Lane widths.
- L) Clear zones.
- M) Bicycle facilities.
- N) Pavement structure.
- O) Pavement cross slope.
- P) Berms.
- Q) Border (utility corridor).
- R) Drainage structures (existing and proposed).

- S) Stormwater Best Management Practive (BMP) locations (if required)
- T) Ditches, including side slope rates for fills and cuts.
- U) Natural grade line.
- V) Traffic directional arrows.
- W) Typical section description, including stationing and location (median openings)
- X) Structure clearances, including horizontal and vertical clearances, airport clearances
- Y) Sidewalks.
- Z) Turn Lanes.
- AA) Super elevation limits, stationing and rate.

Subtask 110.03.02 – Geometric Design (Horizontal and Vertical Control)

The CONSULTANT will develop vertical and horizontal alignments using Geopak for main lanes, and cross streets. Geometric design will be developed in sufficient detail to determine basic engineering needs such as ROW, fill or embankment, retaining wall locations and surface drainage needs.

Subtask 110.03.03 – Preliminary Design Cross Sections

Preliminary design cross sections will be prepared at a maximum interval of 500 feet for roadway and specific elevated sections where there is a variation in profile. The preliminary design cross section will extend 15 feet beyond the limits of the proposed and/or existing ROW lines. Cross sections will be provided in hard copy and electronic Geopak format on a compact disk (CD). Information on each section will include existing ground line and proposed roadway template showing roadway and subgrade, or elevated bridge structures, as appropriate. Roadway excavation and embankment quantities will also be calculated for each section using the average end areas method. Cross sections will be provided on 11 x 17 sheets.

Subtask 110.03.04 – Preliminary Traffic Control and Construction Sequencing

The CONSULTANT will develop a preliminary traffic control and sequence of construction report that documents and describes the preliminary construction sequence and phasing plan, this information will be included in the PER. The report will include the initial and ultimate proposed treatment of intersecting roads for selected route. Consideration will be given to construction activities during each stage of construction and traffic control during construction will be included in the development of preliminary design for the schematic plan. The sequence/phasing plan will consider the effects on adjacent property owners. The preliminary traffic control and sequence of construction plan that supports project assumptions for bridge type, materials mobilization, access points, waterway constraints, environmental constraints, and preliminary construction cost estimates. The sequence of construction will be described primarily through the use of typical sections for the corridor in general showing how operations and access to typical intersections and typical driveways will be maintained. Handling of traffic will be considered in the development of preliminary designs.

Subtask 110.03.05 – Schematic Plan Preparation

The CONSULTANT will develop the color schematic plan on planimetric base map to indicate general geometric features and location requirements of the project. All schematic design will be in conformance with American Association of State Highway and Transportation Officials (AASHTO) and the TxDOT Roadway Design Manual as shown in the references, except where variances are permitted in writing by the AUTHORITY. The schematic plan will be submitted for milestone reviews at 30%, 60%, 90% and 100% complete. Subsequent submittals of the schematic will be revised by the CONSULTANT to reflect the AUTHORITY's, and TxDOT's review comments from the previous submittal. The schematic plan and related drawings will be provided on 22" roll plots at a scale of 1"=200' horizontal and 1"=10' vertical. An electronic MicroStation DGN graphic file containing the approved schematic will be provided by the CONSULTANT.

The schematic plan will include the following:

A) General Information.

- 1. Design speed (mph).
- 2. Vicinity map, showing project location and north arrow.
- 3. North arrow and scale bar.
- 4. Traffic volume projections.
- 5. Texas county map, with city and district labeled.
- 6. Completed federal aid title block.
- 7. State plane coordinate reference, with datum and benchmark reference.
- 8. Preliminary "not a bidding document" stamp, with a Texas Licensed Professional Engineer (PE) signature, name, license number and date.
- 9. Copyright stamp.
- 10. Functional Classification
- 11. CSJ

B) Plan.

- 1. Calculated roadway baselines for the main lanes and all cross streets.
- 2. Beginning and ending project limits with stationing.
- 3. Alignment stationing.
- 4. Point of Intersection (PI) number and stations.
- 5. Curve data, including PI number, PI station, delta, tangent, length, radius, Point of Curvature (PC) and Point of Tangency (PT) stations.
- 6. Equations (if applicable), back station and forward station.
- 7. Super elevation type, transition length and beginning and ending station.
- 8. Pavement edges for all improvements (main lanes, frontage roads, ramps and cross streets).
- 9. Lane and pavement width dimensions.
- 10. Geometrics of speed change lanes.
- 11. Typical section location symbols.
- 12. Existing and proposed ROW, including ROW dimensions, access denial (control of access), tract lines, railroad ROW limits, city limits, section line and corners, subdivisions and easements.
- 13. Direction of traffic flow on all roadways, lane lines and/or arrows indicating the

- number of lanes will be shown.
- 14. Median lines (raised, painted and transitions), median widths and openings.
- 15. Roadway names and highway designations, railroad name, cross street names and locations, designated signalized intersections, acceleration and deceleration lanes, climbing lanes and transitions.
- 16. Bridge and structure locations, including spans, bents, abutments and bridge type.
- 17. Retaining wall locations, including beginning and ending station.
- 18. Proposed drainage requirements, such as the location of structures, inlets, manholes, trunk lines, channels, ditches, arroyos, retention/detention ponds.
- 19. Existing drainage features, such as structures, channels, ditches, arroyos, trunk lines, retention/detention ponds.

C) Profile.

- 1. Calculated profile grade for the main lanes and cross streets. Vertical curve data, including VPI number and station, length, "K" and "e" values and type or curve (crest or sag) will be shown. Profile grade information will be shown on all plan sheets.
- 2. Longitudinal slopes.
- 3. Equations.
- 4. Beginning and ending of project.
- 5. Super elevation, including normal crown limits, transition length, full superelevation length and rates.
- 6. Existing ground line profiles and proposed roadway profiles will be shown on the plans.
- 7. Cross street name, station and elevation.
- 8. Existing and proposed bridges, including required vertical clearances, begin and end bridge limit stationing and span/bent/abutment locations and assumed superstructure depth.
- 9. Existing and proposed drainage features (structure, channels, ditches, arroyos, ponding areas), labeling station and invert elevation.

Subtask 110.03.06 – Hydrology and Hydraulic Studies/Drainage Design

For the Recommended Preferred Alternative the CONSULTANT will perform schematic level drainage evaluation and design for the schematic plan. The CONSULTANT will coordinate with the AUTHORITY, and TxDOT as needed to provide continuity and consistency of proposed drainage features and systems. The CONSULTANT will follow design methodologies and criteria contained in the TxDOT Hydraulic Design Manual to identify potential culvert crossing locations, outfalls and conceptual detention/retention locations.

Drainage analysis and maps will be prepared by the CONSULTANT with consideration of existing conditions and proposed improvements when a final configuration has been determined. Hydrologic discharge data will be established as needed for design. These services may require the use of hydrologic or hydraulics computer programs, such as: Texas Hydraulic System (THYSYS), HY-8, HEC-RAS, HEC-1, HEC-HMS, GEOPAK Drainage, FHWA Hydraulic Engineering Circulars, other TxDOT hydraulic publications and any other pertinent software as approved by TxDOT.

Tasks to be performed by the CONSULTANT to accomplish hydrology and hydraulic studies and drainage design include the following:

A) Field Investigations and Data Gathering.

- 1. Conduct site visit to project to inspect watersheds and conditions of existing facilities.
- 2. Coordinate with the project geotechnical CONSULTANT regarding information on groundwater levels and soil conditions at locations throughout the site.
- 3. Obtain relevant existing hydrologic and hydraulic models.
- 4. Obtain and evaluate available studies and reports relevant to hydrologic and hydraulic design.
- 5. Investigate applicable design criteria, regulations, and guidance.
- 6. Compile and review available pertinent environmental data associated with drainage, hydrologic and hydraulics.

B) Hydrologic and Hydraulic Studies.

- 1. Design Criteria The CONSULTANT will utilize the design criteria as provided in the TxDOT Hydraulic Design Manual to size drainage structures within each roadway section. The design will conform to all other applicable regulations, e.g. FEMA, TCEQ, USIBWC.
- 2. Perform hydraulic analysis and design of roadway cross drainage structures and roadway ditch capacity analysis, as required to develop anticipated project ROW requirements to accommodate drainage features. The design frequency will be based on roadway classification and conveyance capacity will be adequate to accommodate the appropriate design storm and to perform within an acceptable range for the check flood.
- 3. Design of ponds or other structures as needed for flood control. If needed, preliminary sizing will be provided and any additional ROW needed to accommodate proposed drainage facilities will be identified.

C) Design Documentation

- 1. Prepare a report which provides sufficient documentation to support the proposed design configuration, and summarizes the key assumptions and methodology used. The report will be signed and sealed by a (PE) employed by the CONSULTANT and include such key information as:
 - Project Background (location, existing conditions, significant design considerations)
 - Design Criteria (design frequency, check flood, applicable regulations)
 - Hydrologic Study (assumptions, methodology, drainage area information, summary of results)
 - Hydraulic Study (assumptions, methodology, summary of results)
 - Attachments (electronic data/models, detailed input/output files)
- 2. Prepare engineer's construction cost estimate for drainage structures and conveyance systems.

A) Agency Coordination.

- 1. Federal Emergency Management Agency (FEMA) coordination The CONSULTANT will identify and document issues that will require coordination with FEMA, Cameron County, City of South Padre Island, City of Port Isabel and Town of Laguna Vista, including a discussion on the cities' participation in the National Flood Insurance Program, location of existing and proposed floodplain encroachments, impacts of improvements on floodplains and need for future map revisions (Conditional Letter of Map Revision/Letter of Map Revision (CLOMRs/LOMRs)). The CONSULTANT will develop technical data and provide it to FEMA and Cameron County via the AUTHORITY in support of this discussion, as necessary.
- 2. Drainage and Water District coordination The CONSULTANT will coordinate with Cameron County and appropriate irrigation/drainage districts for issues including outfall of storm water runoff into the neighboring drainage channels as necessary.
- 3. United States Army Corps of Engineers (USACE) coordination The CONSULTANT will coordinate with the USACE, if necessary, regarding any natural arroyos crossing underneath the proposed roadway. For this subtask, avoidance and mitigation relative to wetlands, Waters of the U.S. and current navigation features will be considered during the hydrologic and hydraulic study to limit the permitting issues.
- 4. USIBWC coordination The CONSULTANT shall coordinate with the USIBWC, if necessary, regarding the Arroyo Colorado crossing underneath the proposed roadway. For this subtask, impacts to the Floodway system shall be analyzed. The CONSULTANT shall develop technical data and provide it to USIBWC, via the AUTHORITY in an effort to receive concurrence/permits/licenses from USIBWC for the proposed improvements.
- 5. Other Agencies Other agencies identified during the Data Gathering phase of this task will be contacted as necessary. Coordination will be limited to specific hydrologic and hydraulic elements of this task.

Subtask 110.03.07 - Preliminary Bridge Layout Preparation (Typical Bent Sizing and Numbers)

All bridge structures shall be designed for HL-93 loading.

Bridge Layout – The CONSULTANT will prepare a Preliminary Bridge Layout for hydraulic purposes only in accordance with the latest edition of TxDOT's Bridge Design Manual, Bridge Development Manual, Bridge Detailing Manual and TxDOT's Pharr District Bridge Checklist.

- A) The bridge Layouts in the Plan View shall contain the following information:
 - 1. Horizontal curve information or bearing centerline.
 - 2. Bearing of centerline or reference line.
 - 3. Skew angle(s).
 - 4. Slope of header banks and approach fills.
 - 5. Control stations at beginning and ending of with bridge (with deck elevation).
 - 6. Approach pavement and crown width.
 - 7. Bridge roadway width and curbs, face of rail, shoulders or sidewalks.
 - 8. Approach slab and curb returns.
 - 9. Limits and type of riprap.
 - 10. Proposed features under structure.
 - 11. Location of profile grade line.
 - 12. North Arrow.
 - 13. Typical bridge roadway section including preliminary proposed beam types.
 - 14. Cross slope and super elevation data.
 - 15. Minimum horizontal and vertical clearance.
 - 16. Location of soil core holes (station and offset).
 - 17. Bent stations and bearings.
 - 18. Retaining wall locations.
 - 19. Traffic flow directional arrows.
 - 20. Railing types shown.

B) Bridge Layouts in Elevation View should contain the following:

- 1. Type of foundation with preliminary sizing of footing cap.
- 2. Finished grade elevations at beginning and end of bridge.
- 3. Overall length of structure.
- 4. Length, type of spans and units.
- 5. Type of railing.
- 6. Minimum calculated vertical clearance(s).
- 7. Existing and proposed ground lines clearly marked.
- 8. Grid elevations and stations.
- 9. Bent numbers encircled.
- 10. Profile grade data.
- 11. Type of riprap.
- 12. Soil Core Hole information
- 13. Column "H" heights.

- 14. Number, size, and length of columns/piers/piles.
- C) Additional layout requirements for waterway structures and bridge classification culverts:
 - 1. Design and 100 year peak discharges.
 - 2. Design and 100 year high water (HW). Any recorded HW data available?
 - 3. Natural and through bridge velocities for design and 100 year floods.
 - 4. Calculated backwater for design and 100 year floods.
 - 5. Direction of flow for waterway crossings.
 - 6. Contours for water crossings.

Deliverables:

- Typical Sections
- Preliminary Design Cross Sections (60%, 90%, and 100%)
- Schematic (30%, 60%, 90%, and 100%)
- Hydrology and Hydraulic Analysis Report (30%, 60%, 90%, and 100%)
- Preliminary Bridge Layouts (30%, 60%, 90%, and 100%)

TASK 110.04 – PRELIMINARY ENGINEERING REPORT (PER) PREPARATION

Subtask 110.04.01 - PER

The CONSULTANT will prepare a draft PER summarizing the findings of the various engineering studies and investigations. The preferred sheet sizes for the report are 11"x17" (landscape) and 8.5" x 11" (portrait). The draft PER will be submitted at 30%, 60% and 90% complete milestone reviews and will contain sufficient detail to reflect the applicable completion milestone submittal. The CONSULTANT will prepare a final PER for submittal with the 100% complete milestone review. The PER will be signed and sealed by a PE employed by the CONSULTANT and include key information such as the following:

- A) Summary of data collected and how it will, may be, or has been applied.
- B) Photographic record of project area.
- C) Summary of existing condition analysis.
- D) Alternatives assessment documentation report.
- E) Design Summary Report (DSR).
- F) Plan and profile exhibits
- G) Preliminary ROW technical memorandum.
- H) Summary of preliminary utility conflicts.
- I) Preliminary construction cost estimates.

Deliverables:

- Draft PERs to accompany 30%, 60%, 90% (as described in Task 110.04)
- Ten (10) copies and a pdf of the final PER (as described in Task 110.04)

TASK 110.05 – MILESTONE SUBMITTALS AND REVIEWS

The CONSULTANT will assemble and submit the required number of below specified deliverables simultaneously to the AUTHORITY. The specified number of deliverables shown will be submitted to the AUTHORITY. The AUTHORITY will ultimately determine if a submittal review meeting (SRM) is necessary. Review meetings will be planned for budgetary purposes but will only be held if so directed by the AUTHORITY.

Subtask 110.05.01 – 30% Complete Schematic Review Package

- A) The CONSULTANT will print/plot, assemble and submit the following for the 30% complete schematic review package.
 - 1) Ten (10) copies of the PER including the following:
 - Summary of data collected and how it will, may be or has been applied
 - Photographic record of project area
 - Summary of existing condition analysis
 - Alternatives assessment documentation report
 - DSR
 - Preliminary construction cost estimate
 - 2) Two (2) hardcopy plots and all associated electronic files (MicroStation/Geopak) of the schematic plan and related drawings (22" wide roll plots).
 - 3) Ten (10) copies of the hydraulic report showing information gathered and calculated in the hydrologic and hydraulic studies and schematic plan preparation.
 - 4) One (1) copy of markups of internal QC review documents, including appropriate checklists.
- B) The CONSULTANT will prepare for and attend a 30% SRM if deemed necessary by the AUTHORITY. The CONSULTANT will prepare the meeting agenda and presentation aids and exhibits as appropriate. The CONSULTANT will prepare and submit meeting minutes.

Subtask 110.05.02 – Preliminary Design Cross Sections

The CONSULTANT will submit between the 30% and 60% SRMs, one (1) hardcopy (22" wide roll plots) and all associated electronic files of the preliminary design cross sections.

Subtask 110.05.03 – 60% Complete Schematic Review Package

- A) The CONSULTANT will print/plot, assemble and submit the following for the 60% complete schematic review package.
 - 1) Ten (10) copies of the PER consisting of refined information from the 30% review submittal.
 - 2) Two (2) hardcopy plots and all associated electronic files (MicroStation/Geopak) of the refined schematic plan (with cross sections) and related drawings (22" wide roll plots).
 - 3) Five (5) copies of Form 1002 "Proposed Basic Design Data," including documentation of preliminary design exceptions and waivers as applicable and one (1) copy of all associated electronic files.

- 4) Ten (10) copies the refined hydraulic report showing information gathered and calculated in the hydrologic and hydraulic studies and schematic plan preparation.
- 5) One (1) copy of markups of internal QC review documents including appropriate checklists.
- B) The CONSULTANT will prepare for and attend a 60% SRM if deemed necessary by the AUTHORITY. The CONSULTANT will prepare the meeting agenda and presentation aids and exhibits as appropriate. The CONSULTANT will prepare and submit meeting minutes.

Subtask 110.05.04 – 90% Complete Schematic Review Package

- A) The CONSULTANT will print/plot, assemble and submit the following for the 90% complete schematic review package.
 - 1) Ten (10) copies of the refined PER.
 - 2) Two (2) hardcopy plots and all associated electronic files (MicroStation/Geopak) of the refined schematic plan (with cross sections) and related drawings (22" wide roll plots).
 - 3) Ten (10) copies of refined hydraulic report showing information gathered and calculated in the hydrologic and hydraulic studies and schematic plan preparation.
- B) The CONSULTANT will prepare for and attend a 90% SRM if deemed necessary by the AUTHORITY. The CONSULTANT will prepare the meeting agenda and presentation aids and exhibits as appropriate. The CONSULTANT will prepare and submit meeting minutes.

Subtask 110.05.05 – 100% Complete Schematic Review Package

The CONSULTANT will print/plot, assemble and submit the following for the 100% complete schematic review package:

- A) Ten (10) bound and one (1) unbound copy of the final PER and one (1) copy of all associated electronic files.
- B) Five (5) sets of the final schematic plan (with cross sections) and related drawings (22" wide roll plots) and one (1) copy of all associated electronic files (MicroStation/GEOPAK).
- C) Five (5) copies of Form 1002 "Proposed Basic Design Data" page 3 of 3 and one (1) copy of all associated electronic files.
- D) Ten (10) copies of the final hydraulic report showing information gathered and calculated in the hydrologic and hydraulic studies and schematic plan preparation.

Subtask 110.05.06 – TxDOT Review

- A) The CONSULTANT will plot and submit five (5) copies of the AUTHORITY approved schematic plan for subsequent submittal by the AUTHORITY to TxDOT for approval. The TxDOT's design division will provide any necessary review and coordination with FHWA, as applicable.
- B) As deemed necessary by the AUTHORITY, if there are any changes made to the schematic following approval from the design division and FHWA and after the public hearing, the CONSULTANT will plot and submit the five (5) copies of the revised schematic as directed by the AUTHORITY.

Deliverables:

- Meeting minutes for all meetings attended
- 30% complete schematic review package
- One (1) hardcopy (22" wide roll plots) and all associated electronic files of the preliminary design cross sections
- 60% complete schematic review package
- 90% complete schematic review package
- 100% complete schematic review package
- Five (5) sets of the final schematic plan (with cross sections) and related drawings (22" wide roll plots) and one (1) copy of all associated electronic files (MicroStation/GEOPAK) for design division and FHWA review
- If deemed necessary by the AUTHORITY, five (5) sets of the revised final schematic plan (with cross sections) and related drawings (22" wide roll plots) and one (1) copy of all associated electronic files (MicroStation/GEOPAK)

TASK 110.06- BASE AND SOIL TESTING AND CORE DRILLING

The CONSULTANT will provide soil testing and soil exploration to determine the subsurface stratigraphy and to evaluate the engineering properties of the soil to provide recommendations pertaining to the roadway, bridge, approach embankment, and miscellaneous structure design and construction.

Since subsurface conditions can change over time due to both natural and manmade forces, including changes in condition or use of adjacent properties, CONSULTANT nor its geotechnical or material testing subconsultants shall be held responsible if the conditions encountered after the date of this analysis are different from those inferred by the test borings and laboratory test results, or the project details and information provided to CONSULTANT or its subconsultants changes. Any recommendations made by CONSULTANT and/or its subconsultants hereunder are an expression of each party's professional experience and opinion and are based upon their knowledge, information and belief. No other warranty is either expressed or implied. Any use or reuse of the report for any purpose other than as specifically intended hereunder without written verification by CONSULTANT shall be at user's own risk.

The services will include the following:

Subtask 110.06.01 – Geotechnical Drilling Services

For the recommended alignment, the CONSULTANT will provide drilling/excavation and sampling of subsurface materials as follows in accordance with this work authorization:

- 1. **Borings B-1 through B-3** at the Arroyo Colorado: The anticipated depth of boring is approximately 150 feet below natural ground.
- 2. **Borings B-4 through B-7** at Flyover Bridges and Retaining Walls at I-69E: The anticipated depth of boring is approximately 120 feet below existing tip of natural ground.
- 3. Roadway Borings R-1 through R-4: Between I-69E and FM 507: The anticipated

- depth of boring is approximately 30 feet below existing top of natural ground.
- 4. **Roadway Boring R-5**: Between FM 507 and FM 1420: The anticipated depth of boring is approximately 30 feet below existing top of natural ground.
- 5. **Roadway Boring R-6**: Between the Arroyo Colorado and FM 2925: The anticipated depth of boring is approximately 30 feet below existing top of natural ground.
- 6. **Roadway Boring R-7**: Between FM 2925 and FM 1847: The anticipated depth of boring is approximately 30 feet below existing top of natural ground.
- 7. Roadway Boring R-8: Between FM 1847 and General Brandt Road: The anticipated depth of boring is approximately 30 feet below existing top of natural ground.

Final drilling depths and elevations will be based on geologic conditions at the time of drilling operations. Boring depths may extend beyond the listed depths to ensure sufficient data is obtained to achieve the capacity of the proposed support system.

Bridge boring sampling procedures will be in accordance with TxDOT procedures using the Texas Cone Penetrometer. Disturbed samples will be taken every five (5) feet for classification of soil types. Undisturbed samples (thin walled tube samples) will be taken every five (5) feet in cohesive soils in the top twenty (20) feet then every ten (10) feet to the depth of the boring for strength and compressibility testing and strata verification.

Roadway boring sampling procedures will be in accordance with TxDOT procedures using the Texas Cone Penetrometer. Disturbed samples will be taken every five (5) feet for classification of soil types. Undisturbed samples (thin walled tube samples) will be taken every five (5) feet in cohesive soils in the top twenty (20) feet then every ten (10) feet to the depth of the boring for strength and compressibility testing and strata verification.

The CONSULTANT will stake the boring locations and provide utility clearances prior to performing the field exploration portion of the project. At all boring locations, the CONSULTANT will coordinate with the AUTHORITY to ensure that right of entry forms includes the specific items required to complete the soil borings.

All borings will be located in the field by a representative of the CONSULTANT. All boring locations will be surveyed and documented with GPS coordinates.

Samples will be removed from the sample apparatus during drilling operations. The CONSULTANT will conduct various field tests on the recovered samples, visually classify the samples, and record the appropriate data on a field boring log. The samples will be appropriately packaged to minimize loss of their natural moisture content and to reduce the possibility of damage during transportation to the laboratory testing facility.

Drilling services will include an initial water strike depth and a 24-hour water level reading at each boring location. Following completion of drilling and sampling, all boreholes will be backfilled with bentonite chips.

This proposal does not include activities and corresponding costs that may be associated with the following:

• Encountering hazardous or contaminated soils or substances during our field activities.

The CONSULTANT will notify the AUTHORITY should these services become necessary to complete field exploration activities, and if approved by the AUTHORITY, additional negotiated fee and scope will be incorporated through a supplemental work authorization.

Subtask 110.06.02 - Geotechnical Laboratory Testing Services

Geotechnical laboratory testing will be performed on the samples recovered during the field study to evaluate their physical and engineering properties. Testing shall include several of the following test procedures:

- A) Atterberg Limits (ASTM D4318 or Tex-104-E, 105-E, 106-E) This procedure will be used to aid in the classifying of the soil and to provide information on the potential vertical rise and contraction of the soil. Test data furnished will include Liquid Limit, Plasticity Index and Linear Shrinkage test results.
- B) Gradation (-200) (ASTM D1140 or Tex-111-E) This procedure will be used to aid in the classifying of the soil. A No. 200 sieve will be used to distinguish fine grained material as well as for cohesive soils. The grain size analysis will be conducive of scour calculations and analysis.
- C) Determination of Moisture in Soils (ASTM D2216 or Tex-103-E) This procedure will aid in determining the in-situ moisture of the soil to be able to evaluate the potential vertical rise and contraction of the soil.
- D) Sulfate Content of Soil (ASTM C1580 or Tex-145-E) This procedure will identify the soluble sulfate content of soil by using the turbidimetric techniques. The results of this procedure will be utilized to determine whether or not the subgrade material can be lime treated for stabilization or if other methods of stabilization will need to be proposed. The presence of extreme amounts of soluble sulfates will exclude lime treatment as a stabilization option.
- E) Determining Soil pH (Tex-128-E) This method determines the pH of a soil in an aqueous solution.
- F) Lime Series Testing (Tex-112-E) This procedure involves reducing the plasticity of soils through the addition of hydrated lime at predetermined proportions. Results of this test will determine the required percent lime treatment for roadway subgrade.
- G) Soil-Cement Testing (Tex-120-E) -This procedure involves determining the unconfined compressive strength of compacted soil-cement specimens after seven days curing (10 lb. hammer, 18-inch drop, 50 blows/layer using a 6 x 8 in. mold).

Subtask 110.06.03 – Geotechnical Engineering Services

Prior to beginning the geotechnical report, the CONSULTANT shall collect, review and evaluate all available existing data pertaining to the project and assemble a reference file of existing data.

The CONSULTANT will utilize information gathered from the field and laboratory testing to provide the AUTHORITY with a geologic profile and geotechnical engineering analyses for the project. The findings and conclusions derived from analyses will be presented in a written

engineering report and provided to the AUTHORITY (three (3) copies). The report will include a boring location plan, boring logs with laboratory classification of recovered soil samples at the boring locations and subsurface water conditions encountered. The report will provide analyses and engineering recommendations based on the TxDOT Geotechnical and Bridge Design Manuals:

- Recommendations for stabilization of subgrade.
- Preliminary pavement thickness recommendations (Based on FPS21 and traffic information provided by the AUTHORITY)
- Recommendation for bridge foundation.
- A geologic profile, identify the types of soils, describe strata and present expected foundation strength available from the soils.

The report will provide general comments and applicable recommendations regarding construction methods, sequences, and potential difficulties that may arise during overall construction as it relates to the soil aspects of this project. This information may serve to guide foundation selection and design and assist in the preparation of specifications for the project.

Subtask 110.06.03 – Preliminary Pavement Design

An investigation shall be made to design the preliminary proposed pavement structure. A flexible and rigid pavement design shall be evaluated.

Deliverables:

Preliminary Pavement Design Report

Task 110.07 - TRAFFIC FORECASTING

Requirement to be Determined as Project Progresses

TASK 110.08-TRAFFIC OPERATIONAL ANAYLSIS

Requirement to be Determined as Project Progresses

Task 110.09 – INTERCHANGE DEVLEOPMENT

Subtask 110.09.01 – Interchange Layout/Design

The CONSULTANT will be responsible for the design of the I-69E mainlanes and ramps, auxiliary lanes (if applicable) and direct connectors. The conceptual structural details of the direct connectors interchange will be provided by the CONSULTANT and will be included with the Schematic Layouts. The interchange design will be consistent with the schematic design and will include a plan and profile of the thoroughfares, intersection layout, drainage structures, sidewalks, geometrics, turnaround details, and transitions to existing roadway.

Task 110.10 – INTERSTATE ACCESS JUSTIFICATION REPORT (IAJR)

Subtask 110.10.01 – Development of Interchange Justification Report

The CONSULTANT will prepare an IAJR to document proposed changes to the access to I-69E. The IAJR will provide information to support a request for the approval of new and revised points of access on the completed section of the Interstate Highway System. The HCM 2010 or equivalent will be used to report analysis results for the IAJR. The IAJR will be prepared in compliance with FHWA's 8 point policy for new or revised access to the Interstate Highway system and will include:

- Preparing a report covering FHWA's 8 policy points to include Level of Service (LOS) Analysis for existing and proposed traffic on IH 69E.
- Incorporating figures and tables documenting the results of the analysis
- Preparing an Appendix
- Revising the report to incorporate comments from the State and FHWA for up to three submittals.

Deliverables:

- 1st Draft IAJR for the State review submittal along with comment-response matrix (up to 5 hard copies and 1 electronic copy per submittal)
- Revised Draft IAJR for the Sate back check with comment-response matrix
- 2nd Draft IAJR for State review submittal along with comment-response matrix (up to 5 hard copies and 1 electronic copy per submittal)
- Revised 2nd Draft IAJR for the State back check with comment-response matrix
- 3rd Draft IAJR for FHWA review submittal along with comment-response matrix (up to 5 hard copies and 1 electronic copy per submittal)
- Revised IAJR for FHWA back check with comment-response matrix
- Final IAJR (up to 5 hard copies and 1 electronic copy per submittal)

TASK 120 – SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES

It is anticipated that an EA would be the appropriate level of documentation to be prepared for this project. The CONSULTANT will perform tasks to complete environmental studies and public involvement to advance the project through final NEPA approval. The EA will document the social, economic, and environmental conditions and potential impacts of the proposed project and will contain sufficient detail to meet regulatory requirements for legal sufficiency.

Task 120.01 – PUBLIC INVOLVEMENT

The CONSULTANT will provide public involvement support throughout the Environmental Assessment development. All public involvement procedures shall be in accordance with 43 Texas Administrative Code (TAC) 2.40-2.50, Code of Federal Regulations Title 23, Part 771 and the AUTHORITY'S latest policies, procedures and guidance.

Subtask 120.01.01 – Mailing List

The CONSULTANT shall develop a project mailing list. The mailing list shall include the owners of property adjacent to the build alternatives, elected officials and others who have requested notification of public involvement activities.

Deliverable:

Project Database/Mailing List

Subtask 120.01.02 – Public Involvement Plan

The CONSULTANT will develop a Public Involvement Plan for the project. The plan will specify all activities to be performed and alternatives to be discussed during public involvement activities. Public involvement activities will be carried out in compliance with EO 13166 and EO 12898. The plan will also include outreach strategies for both the general public and targeted strategies for Environmental Justice and Limited English Proficiency populations.

Subtask 120.01.03 - Public Meetings

The CONSULTANT will make all arrangements for two (2) public meetings. All public involvement procedures shall be conducted in accordance with 43 Texas Administrative Code (TAC) 2.40-2.50, Code of Federal Regulations, Title 23, Part 771 and TxDOT's Environmental Manual. The public meetings will be coordinated and held in accordance with the following:

- A) The CONSULTANT will prepare and present two (2) public meetings, anticipating up to 100 attendees. There will be an open house format for the first public meeting and comments would be received. Presentations would be conducted during the second public meeting. The CONSULTANT will secure the site for the date agreed upon for the public meetings. The CONSULTANT will make arrangements for a one (1) court reporter and one (1) Spanish interpreter to be present at each meeting. A/V provisions will not be provided.
- B) The CONSULTANT will develop one (1) legal notice in preparation for the meetings. The notice will be translated into Spanish. The notice will be submitted to the CCRMA, and the TxDOT Pharr District for approval. The English and Spanish notice will be placed in two local papers (one published in English, one published in Spanish) and will include a project location map. The notice will be published thirty (30) days and ten (10) days before the public meeting (published a total of eight (8) times).
- C) The CONSULTANT will prepare and mail the meeting legal notice (English and Spanish) to abutting landowners (up to 50).
- D) The CONSULTANT will prepare a letter of invitation for local and state elected officials, which will be printed by the CONSULTANT, and signed and mailed by the AUTHORITY. The CONSULTANT will prepare and update a mailing list of elected officials (up to 15).

- E) In addition, the CONSULTANT will prepare three handouts (comment form, location map, and project overview), indoor and outdoor signage, sign-in sheets, and exhibit boards (16 per meeting). All materials will be translated into Spanish.
- F) The CONSULTANT will provide a project director, two (2) project engineers, two (2) environmental staff, and one (1) public involvement staff members to attend the public meeting for the purpose of providing informational materials regarding the project, addressing local concerns regarding the proposed roadway project, staffing the sign-in table and providing meeting management.
- G) The CONSULTANT will prepare a Summary and Analysis Report in the format required by TxDOT. The CONSULTANT will provide an electronic copy of the Draft Summary and Analysis Report for CCRMA for review. The CONSULTANT will provide a maximum of three (3) copies and an electronic copy of the draft and final Open House Report for TxDOT review.

Deliverables:

- Draft Legal Notice
- Final Notice (English)
- Final Notice (Spanish)
- Letter of Invitation to public officials
- Meeting Handouts (comment form, location map, project overview)
- Summary and Analysis Report (electronic copies in pdf, word or excel)
- Exhibit Boards (up to 16 per meeting/hearing)

Subtask 120.01.04 – Public Hearing

Upon determination of the EA as "satisfactory for further processing", the CONSULTANT shall prepare and coordinate with the AUTHORITY and TxDOT Pharr District a public notice to conduct a public hearing or Afford an opportunity for a Public Hearing. The final notice shall be translated to Spanish and published in one (1) English newspaper and one (1) Spanish newspaper. Both papers are to have circulation in the project area.

Deliverables:

- Draft Notice (for a Public Hearing)
- Final Notice English (for a Public Hearing)
- Final Notice Spanish (for a Public Hearing)

Task 120.02 – ENVIRONMENTAL DOCUMENTATION

The CONSULTANT will prepare an Environmental Assessment (EA) that satisfies the requirements of 23 C.F.R. 771, 43 TAC 2.40 – 2.50 and TxDOT's current environmental procedures manual. Document content shall be in sufficient detail to meet TxDOT's requirements for legal sufficiency. Should the process determine that another level of environmental documentation is required; the effort associated with preparing another document type shall be considered out of scope and subject to a separate work authorization.

Subtask 120.02.01 - Development of Study Area and Constraints Mapping

The CONSULTANT will coordinate with TxDOT the development of a study area within which the project alternatives will be developed. The CONSULTANT will then develop a constraints map to identify potential environmental and infrastructure constraints within the study area. The constraints mapping will be utilized to show issues to the public and will be utilized as an analysis tool for comparing impacts between alternatives. Data sources to be referenced in the constraints map and will include but will not be limited to FEMA floodplain maps, National Wetland Inventory (NWI) maps, hazardous materials database information, Texas Historical Commission (THC) historic sites, aerial photographs, U.S. Geological Survey (USGS) 7.5 minute quadrangle maps, utilities, public facilities, city maps, county maps and other readily available sources of information. Data obtained from other sources will be used as applicable.

Deliverables:

• Draft and Final Constraints Map (1 electronic file)

Subtask 120.02.02 – Purpose and Need

The CONSULTANT will provide a Purpose and Need Technical Report for the transportation problem(s) (with supporting documentation) the proposed project is intended to address. The report shall explain why the project is proposed, including a description of the existing facilities and unsatisfactory conditions to be remedied. The report shall identify and describe the transportation or other needs which the proposed project is intended to satisfy (e.g., provide system continuity, alleviate traffic congestion, improve safety or improve roadway unsatisfactory conditions). The report shall describe the goal(s) or desired outcomes that would be attained if a proposed alternative for the proposed project were implemented. The objectives shall be clearly expressed and useful for identifying the alternative(s) that do and do not warrant consideration as a possible preferred alternative.

Deliverables:

Draft and Final Purpose and Need Technical Report

Subtask 120.02.03 – Alternatives Development and Analysis

The CONSULTANT will assist with the development of alternatives resulting from preliminary engineering studies and environmental constraints analysis and will prepare an Alternatives Development and Analysis Technical Report. The CONSULTANT will develop methodologies and environmental screening criteria to assist the AUTHORITY in the identification of viable preliminary alternatives suitable for further evaluation. For scoping/budgeting purposes up to 3 reasonable alternatives (2 alternatives and the no-build) will be evaluated. Non-toll alternatives will not be considered. Should it be necessary to evaluate additional alternatives, the associated effort will be authorized through a supplemental work authorization.

Following the alternatives analyses, it is anticipated that a Recommended Preferred Alternative (Build Alternative) and a No-build Alternative will be carried forward in the EA for detailed

analysis. Alternatives that were considered and eliminated from further study will be summarized and included in the EA as appropriate.

Deliverables:

• Draft and Final Alternatives Development and Analysis Technical Report.

Subtask 120.02.04 - Project Scoping Coordination

Per 43 TAC §2.44, developing a project scope is required for any TxDOT and Local Government Sponsored Transportation project. The CONSULTANT will prepare the Project Scope for Environmental Review Documents from early in project development process to outline the project sponsor and department delegate responsibilities for the project and obtain an initial project classification from TxDOT.

Deliverables:

Project Scope for Environmental Review Documents Form

Subtask 120.02.05 – Land Use

The CONSULTANT will develop a general description of the project area. The CONSULTANT will analyze the potential project impacts to land use. The analysis will quantify the acreage that would be converted to transportation use and address the conformance of the proposed project with local and regional plans and policies.

Subtask 120.02.06 – Farmland, Soils, and Geology

The CONSULTANT will prepare form SCS-CPA 106 in order to assess farmland impacts in accordance with the Farmland Protection Policy Act (7 U.S.C. 4201 et. Seq.)

The CONSULTANT will evaluate soils and geology impacts for the project. Data from the Bureau of Economic Geology (BEG) and the Natural Resource Conservation Service (NRCS) will be utilized in the evaluation.

Subtask 120.02.07 – Socioeconomic and Environmental Justice

The CONSULTANT will evaluate social and economic impacts of the proposed project and will prepare a Socioeconomic and Environmental Justice Technical Report. The CONSULTANT will use appropriate data sources, such as the U.S. Census 2010, windshield surveys, maps, and aerial photographs to assess existing conditions and to evaluate population and demographic characteristics, environmental justice, disabled populations, limited English proficiency, and employment characteristics. Community cohesion and potential displacements and relocations will also be identified. The analysis will satisfy the requirements and provisions of Executive Order 12898 – Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations, Executive Order 13166 – Improving Access to Services for Persons with Limited English Proficiency (LEP), and Executive Order 13045 – Protection of Children from Environmental Health Risks and Safety Risks.

Project Level Toll Analysis

Due to the anticipated tolling component, a detailed project-specific toll analysis is required. Per FHWA and TxDOT Joint Guidance for Project and Network Level EJ, Regional Network Land Use, and Air Quality Analysis for Toll Roads, April 23, 2009, the CONSULTANT will:

- 1. Evaluate project level travel time savings, project level toll costs and associated fees, project level average trip length, discuss non-toll alternatives, electronic toll systems as applicable, and a brief overview of toll operations and pricing, including methods of toll charge collections specific to the proposed project.
- 2. Identify potential toll road users and conduct a travel time analysis for persons residing in EJ and non-EJ traffic analysis zones. The CONSULTANT will coordinate with TxDOT to obtain travel time analysis data for inclusion in the EA.
- 3. Identify possible mitigation measures to avoid or minimize any adverse impacts to EJ populations.
- 4. Document efforts taken to meet the requirements of Executive Order 12898 and Executive Order 13166 in accordance with FHWA Order 6640.23A.

Deliverables:

• Draft and Final Socio-economic and EJ Technical Report.

Subtask 120.02.08 – Water Resources

The CONSULTANT will include an evaluation of wetlands and other waters of the U.S. in accordance with the U.S. Army Corps of Engineers (USACE) requirements and the preparation of a Wetland Resources Technical Report. The evaluation will consist of the following tasks:

- Perform a wetland delineation and preliminary waters of the U.S. determination within the project limits, in accordance with the USACE Wetland Delineation Manual (1987) and supplemental guidance, including the USACE Atlantic and Gulf Coastal Plain Regional Supplement (November 2010). Corresponding conditions of the potential Section 404 jurisdictional areas.
- An assessment of the appropriate Section 404 permit requirements will be made by the CONSULTANT. If an Individual Permit or Nationwide Permit Pre-Construction Notification is required, preparation will be carried out under a supplemental work authorization.

Other Water Resources

The CONSULTANT will evaluate floodplain impacts according to the requirements of Executive Order 11988 and 23 C.F.R. 650, Subpart A. The CONSULTANT will summarize potential floodplain impacts including watershed characteristics, streams encroachment onto the base (100 year) FEMA mapped floodplain, jurisdictions having control over floodplains, and other pertinent information as needed.

The CONSULTANT will evaluate water quality impacts, including a review and evaluation of the most recent Texas Commission on Environmental Quality (TCEQ) Section 303(d) list.

The proposed Arroyo Colorado crossing is located in an area considered tidally influenced; therefore, coordination with the U.S. Coast Guard and National Marine Fisheries would be required. The CONSULTANT will provide early coordination with both agencies. Any permitting or required surveys resulting with coordination would be initiated under a supplemental work authorization.

Deliverable:

• Draft and Final Water Resource Technical Report.

Subtask 120.02.09 – Historic Resources

The CONSULTANT will prepare a Project Coordination Request (PCR) and submit to TxDOT to determine the scope of the historic resources study appropriate for the project. CONSULTANT will then prepare a Draft Non-Archeological Historic-Age resource Research Design for review and approval by TxDOT. Based on the approved research design, and on direction from TxDOT, the CONSULTANT will prepare a Non-Archeological Historic-Age Resource Reconnaissance Level Survey. The CONSULTANT will survey and document resources as specified in the approved research Design in order to determine if the resources are eligible to be listed in the National Register of Historic Places (NRHP). If any of the surveyed resources are recommended as eligible for listing in the NRHP (historic properties), the CONSULTANT will assess the effects of the Project to the historic properties. TxDOT may require the documentation and assessment of effects for up to five (5) additional resources, and if additional documentation is required, a supplemental work authorization will be required. historic-age resources will be documented in a manner so that the documentation sufficiently satisfies the THC requirements for determining the presence of historically significant properties in Project Area of Potential Effects (APE). The Report will include the names and tasks performed of all technical experts associated with the project.

The CONSULTANT will attach the approved Research Design to the Non-Archeological Historic-Age Resource Reconnaissance Level Survey (Survey Report) to be completed under this work authorization. The Research Design will document the determination of APE, previously designated historic properties within 1300 feet of the Project right of way, review of the THC survey files and THC Texas Historic Sites Atlas, the Recorded Texas Historic Landmarks (RTHL), the list of National Historic Landmarks (NHL), survey methodology, study limits of the survey area, historic-age cutoff date, and the literature review.

The CONSULTANT will perform a historic resources reconnaissance survey, including identification, evaluation, and documentation tasks in accordance with the provisions of the Secretary of the Interior's Standards for the Identification, Evaluation, and Documentation (48 CFR Parts 44716-42). The historic resource reconnaissance survey will include (1) summary of project area history; (2) reconnaissance survey and photographs of all buildings, sites, structures, and objects that appear to have been built 45 years prior to the letting date; (3) assessment of whether any structures or buildings meet standards for inclusion on the National Register of

Historic Places (NRHP), either individually or as part of a potential historic district, and (4) assessment of impacts to any structures or buildings meeting standards for inclusion on the NRHP.

The Area of Potential Effect (APE) will be coordinated with the THC for the proposed project. The APE will be delineated to be, in most cases, the first building/property/tax lot abutting the proposed roadway and the defined APE.

Performance of these historic studies will include the following tasks:

- 1. The CONSULTANT will conduct a literature review to establish appropriate historical and cultural contexts for the project area, determine information requirements, and direct the survey effort.
- 2. The CONSULTANT will conduct a reconnaissance survey of each historic resource (defined in accordance with 36 CFR 60 as a building, structure, object, historic district, or non-archeological site at least 45 years old at the time of letting) in the APE. Each resource will be documented in the following manner.
 - a. The CONSULTANT will provide photographic documentation for each resource. At a minimum this will include an oblique view of the primary façade and a side elevation for each resource, with the subject filling the frame. All photographs will be 3.5" x 5" color digital representations printed on approved color copy paper. All photographs will be well focused and clearly depict architectural and other details relevant to an evaluation of the resource's character-defining features. Photographs will be attached to separately labeled pages that clearly identify project name, address of resource, project ID number, and other pertinent information, including readily apparent integrity issues, where appropriate.
 - b. The CONSULTANT will produce an inventory of all resources, provided in a table form that details their project ID numbers, locations, property type, stylistic influences (if apparent), construction dates, and preliminary eligibility recommendations.
 - c. The CONSULTANT will provide a draft copy and up to 4 final copies of a report detailing the results of the reconnaissance survey. The report will describe the findings of the reconnaissance survey and make recommendations to TxDOT for the need, if any, to conduct intensive survey efforts or further historical research.

Deliverables:

- Draft and Final PCR
- Draft and Final Historic Resources Research Design
- Draft Non-archeological Historic Resource Survey Report to TxDOT for review. One round of review comments is assumed (1 hard copy, 1 electronic copy)
- Final Draft Non-archeological Historic Resources Survey Report to TxDOT for submittal to the THC. (1 electronic copy)

Subtask 120.02.10 – Archeological Resources

The tasks include background literature and maps review, the acquisition of an Antiquities Permit, intensive survey and inventory of archaeological resources in the project area, and the production of a report of the investigations. All work will be done in accordance with the standards and

guidelines of the Antiquities Code of Texas. The CONSULTANT shall conduct a thorough background archaeological literature and records search of the project. The CONSULTANT will search site files and maps at the Texas Archeological Research Laboratory and the THC for any previously recorded surveys and historic or prehistoric archaeological sites located in or near the project area. The review will also include relevant historic maps from the Texas Department of Transportation's Texas Historic Overlay. Additionally, a CONSULTANT archaeologist will search the Texas Archeological Sites Atlas (Atlas) online database. In addition to identifying previously recorded archeological sites, the Atlas review will include the following types of information: National Register of Historic Places (NRHP) properties, State Archeological Landmarks (SALs), Official Texas Historical Markers (OTHMs), Registered Texas Historic Landmarks (RTHLs), cemeteries, and local neighborhood surveys. Other critical factors that will be examined include the level of previous disturbances from residential and commercial development, types of soils, and archaeological potential.

ARCHAEOLOGICAL SURVEY

The CONSULTANT will conduct an archaeological field survey of the proposed project area. The field survey will consist of archaeologists walking the undisturbed portions of the proposed project area. The survey will be of sufficient intensity to determine the nature, extent, and, if possible, potential significance of any cultural resources located within the proposed project area. During the survey, the archaeologist will be examining the ground surface and erosional profiles for cultural resources. For this project, two methods for probing the subsurface deposits will be utilized. Shovel tests will be conducted in those areas with potential for shallowly (less than 1 meter) buried sites or in heavily disturbed areas. As deeply buried archaeological sites are typically found near waterways, backhoe trenching investigations will be employed in those portions of the project area.

Shovel tests will be systematically excavated along the roadway, and additional shovel tests may be required to define site boundaries. THC survey standards call for 16 shovel tests per mile of 100-ft wide ROW or a sliding scale based on acreage. The number of shovel tests will likely be reduced depending on the level of previous disturbances, the nature of the soils, and the topographic setting of the pipeline. Shovel tests will be excavated in 20-cm arbitrary levels to 1 m in depth, or maximum depth of project impacts, or to pre-Holocene deposits, whichever comes first. The matrix will be screened through ¼-inch mesh. The location of each shovel test will be plotted using a GPS receiver, and each test will be recorded on appropriate project field forms. Areas with previously recorded sites or other cultural resources revealed in the archival research will require additional shovel testing to explore the nature of the cultural deposits. Shovel tests will be excavated to the depth of project impacts, if possible.

Trench placement is be based on the level of disturbance within the project area, the location of buried utilities, the location of any previously impacted areas, and the preservation potential for archaeological sites. Backhoe trenches are excavated to a depth sufficient to determine the presence/absence of buried cultural materials and allow the complete recording of all features and geomorphic information to depths of project impacts. Generally, trenches will be 2 m deep, 8 m in length, and 1 m wide. Trenching is monitored while excavations are underway. Stratigraphic profile drawings with soils descriptions will be recorded for each trench. A column of soil will be

excavated and screened down one side of select trenches. The columns will be roughly 30-x-30-cm in size, extending from the ground surface to the base of the trench. Soil from the column will be removed in 20 cm levels and screened through ¼-inch hardware screen mesh. All features encountered during trenching will be mapped and photographed. All Occupational Safety and Health Standards (OSHA) safety protocols are utilized in these trenches.

The CONSULTANT will conduct a non-collection survey. Artifacts will be tabulated, analyzed, and documented in the field, but not collected. Temporally diagnostic artifacts will be described in detail and photographed in the field. Only especially rare artifacts or discoveries will be collected.

REPORT PREPARATION

Once the survey has been completed, CONSULTANT will prepare a draft report of the investigations for review by the clients and Cameron County RMA, and ultimately the THC. The archaeological report will conform to THC, Council of Texas Archeologists, and Antiquities Code of Texas reporting standards. It will document the general nature of the project area, the methodology used in the investigations, the presence and condition of any previously recorded sites revealed in the records review, the general nature and extent of cultural resources encountered during the archaeological survey, recommendations on the need for further work, and the potential significance of the cultural resources in regards to future development and SAL status.

Draft copies of the report will be submitted to Cameron County RMA for review and comment. Once this has been accomplished, any appropriate edits will be made and a final draft report will be submitted to the THC. Per Antiquities Code permit requirements, one copy of the final report and an electronic version will be submitted to the THC, and ten copies will be sent to various designated repositories around the state. In addition, all recovered artifacts and documentation must be curated at an approved repository. In this case, if artifacts are recovered and curation is needed, CONSULTANT curate the materials at the Center for Archaeological Research (CAR). Curation involves preparing the artifacts (washing, labeling, cataloging, etc.) and paying a fee for storage space. As we are proposing a non-collection survey, curation fees are not included in this cost proposal, CONSULTANT will submit a change order to cover the cost of curation in the unlikely event that artifacts are recovered.

Deliverables:

- Draft PCR
- Final PCR
- Draft Permit Application
- Final Permit Application
- Draft Archeological Report. One round of review comments is assumed (1 electronic copy)
- Final Archeological Report (2 electronic copies)

Subtask 120.02.11 – Vegetation and Wildlife

A) The CONSULTANT shall perform an analysis/characterization of habitat and habitat impacts for the study area and report findings in the EA. If the CONSULTANT encounters protected

- species or habitat for protected species, the CONSULTANT shall notify the AUTHORITY immediately.
- B) Descriptions of habitat types (e.g., forested, prairie, riparian, floodplain, rangeland and agricultural) in the study area will be based upon The Vegetation Types of Texas, Including Cropland (TPWD, 1984). The habitat description shall indicate the vegetative type(s) listed for the study area in The Vegetation Types of Texas, Including Cropland. The habitat description shall indicate whether an S1, S2, or S3 vegetation series listed in "Plant Communities of Texas (Series Level)" (Texas Natural Heritage Program, April 1993) is present. The habitat description shall include a description of the existing vegetation in the right of way of the proposed project. The habitat description shall describe habitat for protected species if such habitat occurs within or adjacent to the right-of-way. The CONSULTANT shall supplement the description with maps (based on USGS 7.5' maps) and photographs. Maps shall be annotated to indicate the locations and areas of distinct vegetative types (per The Vegetation Types of Texas, Including Cropland) or S1, S2, or S3 vegetation series (per "Plant Communities of Texas (Series Level)") if any have been identified during field inspections. If the vegetation within the right-of-way does not match the description in The Vegetation Types of Texas, Including Cropland or if there is an unusual difference between the vegetation in the right-of-way and outside the right-of-way, additional details shall be included in the description to clearly explain the differences in vegetative content between the existing vegetation and the vegetative types described The Vegetation Types of Texas, Including Cropland. Unusual vegetation features may include:
 - 1) unmaintained vegetation,
 - 2) trees or shrubs along a fence line adjacent to a field (fencerow vegetation),
 - 3) riparian vegetation (particularly where fields/cropland extend up to the riparian corridor),
 - 4) trees that are unusually larger than other trees in the area, and
 - 5) unusual stands or islands of vegetation.
- C) If special habitat features are present, additional details shall be included in the description to clearly describe the feature(s) present and to explain why the feature(s) should be regarded as special. Special habitat features include:
 - 1) bottomland hardwoods,
 - 2) caves,
 - 3) cliffs and bluffs,
 - 4) native prairies (particularly those with climax species of native grasses and forbs),
 - 5) ponds (temporary and permanent, natural and man-made),
 - 6) seeps or springs,
 - 7) snags (dead trees) or groups of snags,
 - 8) water bodies (creeks, streams, rivers, etc.), and
 - 9) existing bridges with known or easily-observed bird or bat colonies.
- D) The habitat analysis shall contain a description of anticipated impacts to vegetation. The description of anticipated impacts shall be based on impacts that can be predicted as a result of construction activities and the kind(s) of facility proposed for the proposed project. If lack of access to the new location right-ofway limits field observation for the habitat description, existing published sources shall be used to provide an estimate. The description of vegetation shall include the following:

- 1) Dominant Species for each vegetation stratum (i.e., tree, shrub, vine, herbaceous [grass and forb]) present,
- 2) Height of trees (range), if present,
- 3) Diameter at Breast Height (DBH) of trees (range and average), if present,
- 4) Percent canopy cover of trees, if present,
- 5) Acreage for each vegetation type present.

Deliverable:

1. Draft and Final Biological Technical Report

Subtask 120.02.12 – Threatened and Endangered Species

- A) For the purposes of this work authorization, protected species shall include:
 - 1) All species listed by the United States Fish and Wildlife Service (USFWS) as threatened or endangered or proposed for listing as threatened or endangered (50 C.F.R. 17.11-12);
 - 2) All species that are candidates for review for listing by USFWS as threatened or endangered (per most recently updated list in Federal Register);
 - 3) Species listed as threatened or endangered species by Texas Parks and Wildlife Department (TPWD) (State of Texas Threatened and Endangered Species Listings, TPWD);
 - 4) Species protected by the Migratory Bird Treaty Act (50 C.F.R. 10.13).
- B) The CONSULTANT shall examine existing data to determine the likelihood that protected species, their habitat or designated critical habitat (per 50 C.F.R. 17.94-95) could be impacted by the proposed project and shall report findings in the EA. Existing data shall include the records of the TPWD Natural Diversity Database. The CONSULTANT shall not perform species-specific presence/absence surveys for protected species or critical habitat (per 50 CFR 17.94-95). If required, presence/absence and/or critical habitat surveys would be performed under a separate supplemental work order as needed.

Deliverable:

• Draft and Final Biological Evaluation Form

Subtask 120.02.13 – Traffic Noise

- A) The CONSULTANT will perform a complete traffic noise analysis in accordance with TxDOT's "Guidelines for Analysis and Abatement of Highway Traffic Noise" in effect on the date of execution of this work authorization. Noise analyses shall be performed for each reasonable alternative. TxDOT's "Guidelines for Analysis and Abatement of Highway Traffic Noise" are incorporated by reference herein. TxDOT shall provide the CONSULTANT with existing and predicted (future) traffic data and, when available, aerial photography.
- B) The CONSULTANT shall identify representative receivers that might be impacted by highway traffic noise and may benefit from feasible and reasonable noise abatement. The CONSULTANT shall determine existing and predicted noise levels for representative receivers, as follows:
 - 1. The CONSULTANT shall conduct field measurements of existing noise levels.
 - 2. The CONSULTANT shall perform computer modeling of existing noise levels and

- predicted (future) noise levels.
- 3. The CONSULTANT shall identify impacted receivers in accordance with TxDOT's absolute and relative impact criteria.
- 4. The CONSULTANT shall consider and evaluate all required noise abatement measures for impacted receivers in accordance with the feasible and reasonable criteria.
- 5. The CONSULTANT shall propose noise abatement measures that are both feasible and reasonable.
- 6. The CONSULTANT shall determine predicted (future) noise impact contours for adjacent undeveloped property where development is likely to occur in the near future.

Deliverables:

• Draft and Final Traffic Noise Technical Report.

Subtask 120.02.14 - Air Quality

The CONSULTANT shall perform an air quality analysis in accordance with the TxDOT Air Quality Guidelines in effect on the execution date of this work authorization.

Deliverables:

Draft and Final Air Qualitative MSAT Report

Subtask 120.02.15 – Hazardous Materials

The CONSULTANT will conduct an initial site assessment (ISA) to determine the potential for encountering hazardous materials in the project area. The assessment will consist of the following tasks:

- Obtain a regulatory agency database search with minimum search distances conducted in accordance with American Society for Testing and Materials (ASTM) 1527-13.
- Conduct field reconnaissance to verify those sites identified from the regulatory agency database search and to document any visual and/or olfactory evidence of potential environmental concerns in the project area.
- Sites that are identified in the regulatory database search or as a result of the field reconnaissance will be ranked to evaluate the potential for petroleum and/or hazardous materials contamination in the project area.
- Preparation of the TxDOT Hazardous Materials Initial Site Assessment

Note: This assessment does not include a Phase I (ASTM E1527-13) or Phase II Environmental Site Assessment, interviews with property owners, or reviews of fire insurance maps, deed records, city directories, property tax files or other sources.

Deliverables:

• TxDOT Hazardous Materials ISA

Subtask 120.02.16 – Indirect and Cumulative Impacts

The CONSULTANT will assess the indirect and cumulative impact analyses in accordance with TxDOT's "Guidance on Preparing Cumulative Impact Analyses," (2014 version). The results of these analyses shall be reported in an Indirect and Cumulative Impact Technical Report. Updates of various ecological, socioeconomic, urban development, land use and planning data, as well as coordination with the local governing agencies may be required to revise or modify past, present, and reasonably foreseeable actions that factor into the indirect and/or cumulative impacts analyses associated with the Recommended Preferred Alternative.

Indirect Impacts Analysis

The CONSULTANT will conduct the six (6) step process for conducting an indirect impacts analysis. The National Cooperative Highway Research Program Report 466 (NCHRP Report 466) will be used as additional guidance for the indirect impacts analysis. The indirect impacts area of influence will be updated, if appropriate based on updated land use/census data, and will be agreed to by TxDOT prior to any impacts analysis. An exhibit will be prepared to illustrate the area of influence and areas of potential indirect impacts associated with the proposed project.

Cumulative Impacts Analysis

The CONSULTANT will conduct the five (5) step process for conducting a cumulative impacts analysis. The CONSULTANT will review changes attributable to past development and reasonably foreseeable future actions in the area in order to project cumulative impacts associated with the proposed project. Consistent with TxDOT's Guidance, the CONSULTANT will perform the ICI analysis on those resources which are (1) significantly impacted by the proposed project and (2) are currently in poor and/or declining health. Up to eight (8) resource study areas (RSAs) will be analyzed in the cumulative impacts assessment. The RSAs will be agreed to by TxDOT prior to any analysis. An exhibit will be prepared to illustrate the RSAs assessed in the cumulative impacts analysis.

Deliverables:

• Draft and Final Indirect and Cumulative Impact Technical Report

Subtask 120.02.17 – Other Environmental Resources

In addition to the subtasks previously mentioned, the CONSULTANT will discuss the following items in the EA: pedestrian and bicycle facilities, Section 4(f) resources, beneficial landscape practices and invasive species, visual and aesthetic qualities, construction impacts, and a summary of all agency coordination conducted.

Subtask 120.02.18 – Document Preparation and Comment/Response

The information gathered during the environmental investigations and analyses will be compiled into an EA document. Each submittal listed below will include one electronic copy of the EA (in

PDF format), and a completed comment/response matrix after TxDOT review. The CONSUTLANT will provide the following:

- One electronic copy of the preliminary draft EA (ver.1) will be submitted to TxDOT Pharr District for administrative completeness review. Upon receipt of comments, revisions will be made and the additional information needed to complete the items will be incorporated into the draft EA (ver. 2.)
- An electronic copy of the draft EA (ver. 2) will be prepared and provided to TxDOT for ENV final review and approval for further processing.
- After receiving comments from ENV, an electronic copy of the draft EA (ver. 3) will be revised and submitted to TxDOT for approval with a FONSI.

Subtask 120.02.19 - Preparation of Final NEPA Document

If applicable, the CONSULTANT will support TxDOT in the preparation and processing of the FONSI for approval.

Additional Services

The following services area not included in the scope of services for this work authorization and if required, would be conducted under a separate work authorization:

- Archeological Testing and Data Recovery
- Intensive Historic Survey
- Preparation and coordination for Section 4(f) or Section 6(f)
- Preliminary Jurisdictional Determination Report
- USACE Section 404 Individual Permit or nationwide Permit Preconstruction Notification
- Mitigation Plans
- Threatened and Endangered Species Presence/Absence Surveys
- Preparation of a Biological Assessment or Biological Evaluation
- Section 7 Consultation
- Traffic Noise Workshop

TASK 145 – PROJECT ADMINISTRATION AND COORDINATION

Subtask 145.01.01 – General Administration

The CONSULTANT will perform project administrative and coordination duties, including contract administration, project management, meeting minutes of all meetings and telephone conversations and other related administrative tasks (e.g., direct costs) associated with the project, including:

- A) Subcontracting Prepare, coordinate, execute and administer work authorizations with subconsultants.
- B) Progress Reports and Invoices Prepare monthly invoices and progress reports for the work tasks, together with evidence of work accomplished during the time period since the previous report. The monthly progress reports will include: Activities completed, initiated or ongoing during the reporting period; Activities planned for the coming period; Problems encountered and actions to remedy them; Overall status, including a tabulation of percentage complete by task; Updated project schedule; Minutes of study meetings and copies of monthly

- correspondence.
- C) Record Keeping and File Management Maintain all records and files related to the project throughout the duration of the services.
- D) Correspondence Prepare written materials, letters, survey forms etc. used to solicit information or collect data for the project and submit them to the AUTHORITY for review and approval prior to its use or distribution. Copies of outgoing correspondence and incoming correspondence will be provided to the AUTHORITY on a continuing, at least monthly, basis.
- E) Schedule Prepare a detailed, graphic schedule linking Work Authorization tasks, subtasks, critical dates, milestones, deliverables and AUTHORITY review requirements. The project schedule will be in a format, which depicts the order and inter-dependence of the various tasks, subtasks, milestones and deliverables for each of the tasks identified therein. Progress will be reviewed periodically for conformance to Exhibit C, Project Schedule; and should these reviews indicate a substantial change in progress, the schedule will then be revised accordingly.
- F) Managing Change -Communicate in a timely manner all types of change that may occur in the project including but not limited to schedule, personnel, scope and work product changes. The AUTHORITY approved change(s) shall then be incorporated into the project schedule in a timely fashion to minimize any unnecessary rework.

Deliverables:

- Monthly progress report that delineates activities performed per function code
- Monthly invoice/billings with list of products delivered per invoice billing cycle

Subtask 145.01.02 – Project Coordination Meetings

- A) Project Kick-off Meeting Prepare for and attend one (1) kick-off meeting with the AUTHORITY and TxDOT to discuss project guidelines and present general project requirements and expectations.
- B) Progress Meetings Attend up to six (6) progress meetings with designated AUTHORITY representatives and the Texas Department of Transportation (TxDOT) to report on the progress of tasks related to the services. The CONSULTANT will submit a memorandum summarizing the minutes and events of each meeting.

Deliverable:

Meeting agendas and minutes for all progress meetings attended

Subtask 145.01.03 – Cameron County RMA Project Coordination

A) The Consultant will coordinate with the AUTHORITY on project-related issues. The project coordination issues will include, but not limited to, attending Board of Directors' Meetings to report on status of the Outer Parkway Project. The Project Manager will be available to respond to questions that may be asked by the Board.

Deliverable:

• Meeting agendas and minutes for all progress meetings attended

TASK 150 – FIELD SURVEYING AND PHOTOGRAMMETRY

The CONSULTANT will provide professional surveying and aerial mapping services required for the Recommended Preferred Alternative. The standards and specification under which this work will be performed is detailed hereinafter under "Standards and Specifications for Surveying Services."

TASK 150.01 - FIELD SURVEYING

Subtask 150.01.01 - Horizontal and Vertical Control

- A) Utilizing static Global Positioning System (GPS) methods, the CONSULTANT will establish primary horizontal and vertical control for the project based on the Texas Coordinate System NAD 83/93, NAVD 88 Datum, South Zone (U.S. Survey Feet) adjusted to surface using a surface adjustment factor to be specified by the AUTHORITY. Primary control points (Type II concrete monuments with aluminum caps stamped with a unique alphanumeric identifier) will be established at approximate two (2) mile intervals along existing TxDOT maintained roadways within the study area.
- B) The CONSULTANT will prepare a control recovery sheet, to TxDOT specifications, for each primary control point containing a sketch of the point with measurements to a minimum of three (3) ties to permanent fixed objects near its location. Provide coordinates, metadata and other pertinent information.
- C) The CONSULTANT will prepare and submit to the AUTHORITY an original "Control Book" or "Horizontal and Vertical Control Survey Report" containing control data sheets for all source monumentation, control recovery sheets for all project primary control points, an ASCII point list containing all final horizontal and vertical control values and a detailed GPS report.

Subtask 150.01.02 – Ownership Research and Right of Entry

- A) The CONSULTANT will verify current ownership in the Cameron County Tax Appraisal Offices for all privately owned properties which access will be needed for any tasks listed herein. A current ownership list of the adjoining properties will be created in Excel format and a copy of this list will be provided to the AUTHORITY. No deed or easement research will be performed as part of this scope of services.
- B) The CONSULTANT will attempt to obtain right of entry (ROE) by signed letter from each of the private property owners contained in the above-mentioned ownership list. A draft copy of the ROE letter will be provided to the AUTHORITY for approval prior to any mailings. The results of mailings will be recorded and reported for future action. Also, when necessary, the CONSULTANT, will contact property owners in advance of field surveys or to address specific property owner concerns about the work to be performed or being performed. It is anticipated that the AUTHORITY will assist with problems regarding landowners who refuse to grant ROE or are otherwise hostile with respect to the completion of this scope of services. No tasks listed in this scope of services that require access onto private property will be performed without signed right of entry from the landowner.

Subtask 150.01.03 - Omitted

Subtask 150.01.05 – Geotechnical Bore Hole Surveys

- A) The CONSULTANT will stake a maximum twenty (20) soil-boring locations in the field prior to commencement of soil drilling services. Field stakes will be flagged and labeled to clearly identify each proposed soil boring location.
- B) The CONSULTANT will field survey the location and elevation of actual soil boring locations and provide directly to the geotechnical services representative, in appropriate electronic and hard copy format, as needed for timely incorporation into the geotechnical investigation documentation.

Subtask 150.01.04 – Proposed ROW Staking

A) If deemed necessary by the AUTHORITY and upon receipt of written authorization from the AUTHORITY, the CONSULTANT will stake (with a 60d nail and wooden stake) and flag proposed ROW lines at points of curvature, points of tangency, points of intersection and two hundred (200) foot maximum intervals along tangents. For budgeting purposes it is assumed that two (2) separate staking's will be required.

Deliverables:

- Project Control Book containing control data sheets for all source monumentation, control recovery sheets for all project primary control points, an ASCII point list containing all final horizontal and vertical control values and a detailed GPS report
- ASCII file with point number, northing, easting, elevation and feature code of all surveyed points
- GEOPAK file of all surveyed points
- Ownership list of all private property owners which access was needed in Excel format
- Copies of all signed ROE letters in ".pdf" format
- Metadata containing all appropriate tabular data in digital form
- TIN file in GEOPAK 2004 format containing design survey data
- DAT file in GEOPAK 2004 format containing design survey data
- Field book copies in PDF format

TASK 150.02 – .LAS File PROCESSING (RAM)

Subtask 150.02.01 – ABGPS/IMU Post Processed

The CONSULTANT will use TerraPos (GPS+GLONASS) post-processing software based on the principle of Precise Point Positioning (PPP, P3). This processing technique uses post-processed precise satellite ephemeris and various sophisticated error modeling such as troposphere, ionosphere and clock corrections. TerraPOS utilizes precise orbits and clock corrections for the satellites, together with advanced error modeling to produce positions with impressing accuracy. The result is an excellent tool for positioning in applications allowing for post processing, such as

airborne photogrammetric of LiDAR operations, seabed mapping, or seismic surveying. For additional control we utilize the National Geodetic Survey (NGS), Continuously Operating Reference Station (CORS) utilizing Trimble Applanix Smart Base software. In order to confirm accuracies requested a base station recording data a one second epochs is suggested for production of 1-foot contour intervals. Airborne post processing will use base stations as a top priority with TerraPOS and SmartBase secondary.

Subtask 150.02.02 - .LAS Development

After standard GPS post processing the next phase is to combine the laser measurements with the GSP.IMU data. This task is performed in the Topit LiDAR software (Trimble software) where the SBET (Smoothed Best Estimated Trajectories) and SDC (angle and distances) files are combined to produce an LAS file or PointCloud. Also in this process the laser measurements are transformed from WGS84 coordinate to the client requested Coordinate System.

Subtask 150.02.03 – Ground Control/Check Points

The CONSULTANT will prepare a panel layout before the flight showing the placement of the targets. Field Survey activities necessary for the successful completion of this project will be provided by the CONSULTANT. Each control point will be compared to the LiDAR to ensure that data collected meets the accuracy requirements expected.

Surveyor will obtain for the CONSULTANT the following scope of services:

- A) Recover NGS, Harn existing control (If available)
- B) Set photo panels
- C) GPS horizontal and vertical position panels
- D) Process GPS data
- E) Deliver GPS data in X, Y, and Z format
- F) Control will be done in State plane Grid NAD 83 Texas South Zone

TASK 150.03 – QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) (RAM)

Subtask 150.03.01 – Planimetric Mapping from Airborne Data

Planimetric features will be collected from the airborne data within the established limits of the project and will consist of, the edges of the existing paved public roadway surfaces, i.e. edges of pavement of the main lanes and frontage roads of the project as well as crossing and intersecting roadways and retaining walls.

Subtask 150.03.02 – Digital Terrain Model (DTM)

A 3D DTM of the project within the limits specified above utilizing the collected airborne data. The planimetric features extracted on the edges of the paved sections, tops and bottoms of retaining walls and visible abutments within the project corridor will be draped to the calibrated LiDAR data in order to bring the 2D planimetric to the elevation of the LiDAR. This LiDAR subset together with the draped line work will be utilized to generate a triangulated irregular network (TIN) and DTM will be processed.

The terrain model will be produced in Microstation V8i (SELECT Series 2) to TxDOT mapping standards. The 3D DTM will be based solely on the data visible to the LiDAR system employed for this project. Tree location and species identification, elevations of drainage structures as well as details regarding manhole inverts, pipe size, type and flow direction, and any other surface features not visible to the LiDAR system will not be collected and therefore will not be shown on the face of the resulting DTM or Planimetric drawings.

Deliverables:

- Primary Control
- ASCII file with primary control coordinates and associated metadata
- ASCII file with LiDAR point coordinates and associated metadata
- Control adjustment reports
- Airborne LiDAR acquisition log files and calibration reports
- Aerial LiDAR SBET reports per flight line
- LiDAR RMSE reports as compared to control and ground truthing
- Aero Triangulation report
- Ortho-imagery of the corridor with exterior orientation files in Mr. Sid format
- Calibrated .las files, trajectory files, Terrasolid project files and Microstation block .dgn's
- MicroStation V8i (Select Series 2) 3D DTM .DGN generated from the aerial collection and associated.
- Microstation (V8i Select Series 2) 2D planimetric .DGN generated from the aerial collection.

COMPUTER GRAPHICS FILES FOR DOCUMENT AND INFORMATION EXCHANGE

The purpose of this Special Provision is to define the format for the exchange of electronic/magnetic data between the AUTHORITY and non-departmental resources. Because the AUTHORITY has a significant investment in its existing computer equipment, software, data/databases and personnel training, any and all computer generated data submitted to the AUTHORITY must be compatible with the local District office computer system. Due to the variety of software existing among AUTHORITY offices and to ensure usability of data exchanged between the AUTHORITY and non-departmental resources, the AUTHORITY will exchange media of the following data formats:

> OUTER PARKWAY APD EXHIBIT "B" Page 46 of 50

Survey Data Management System (SDMS)

Word Processing:.....Microsoft Word

Database: Microsoft Access/ Microsoft Editor

Spreadsheets: Microsoft Excel

Archiving Software: .. PKZIP

Data provided to the AUTHORITY will be furnished on compact disk (CD) compatible with the AUTHORITY's computer system and as approved by the AUTHORITY.

Each CD submitted will include a Micro Soft Word document titled index.doc which will provide an index of the directory structure, name of files within directories, and a concise description of each file. Directories will be used to separate files according to subject: schematic, hydraulics, survey information, etc.

Variations from this software applications, or other requirements listed above may be allowed if requested in writing by the CONSULTANT and approved by the AUTHORITY. Because data stored on electronic media can deteriorate or be modified undetected,

CONSULTANT will not be held liable for the completeness or accuracy of the electronic data after the receipt by AUTHORITY. AUTHORITY's reliance on the drawings, files, or other information and data stored on the media is limited to the printed copies (also known as "hard copies") that are signed or sealed by CONSULTANT. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern. The following Standard Main Directory Structure Table will be used to archive all project files pursuant to this project:

Standard Main Directory Structure:

Types of Data

CaiCE All CAiCE files requested from surveyor.

Construction Construction and field change

documentation except for .Dgn files

All design, schematic and survey contract Contracts

documentation, scope of work, man-hour

estimate, etc.

Design Files All .Dgn files – Mapping, Sheet Files, Master

Design Files, design cross sections, etc.

Environmental documentation can include **Environmental Docs**

> but is not limited to Categorical Exclusion (CE), Environmental Assessment (EA), Environmental Impact Statement (EIS), noise analysis and Water Pollution

Abatement Plans.

Estimate All estimate files and supporting

documentation.

Excel Spreadsheets Miscellaneous Excel Spreadsheets created

for project development.

GEOPAK Input and output files, job files, tin files

Input and output files for other hydraulic Hydraulic Programs

programs other than GEOPAK Drainage.

(Hec-Ras, Thysys, Winstorm, etc.)

Other Engineering

Any other pertinent Engineering application data input, output, etc. (i.e. Wincore)

Applications

All photograph files pertaining to project.

Photographs PowerPoint

All PowerPoint Presentation created for

meetings and/or information.

ROW

ROW maps and parcel sketches as

furnished by surveyor, including any

correspondence.

Standards All Standard Sheets used for the project.

Traffic SignCAD files and pertinent design files TransCAD for Modeling Files (No Correspondence or *.Dgn files)

Word Documents All documentation and other project correspondence not mentioned above and subdivided to proper directories.

REFERENCES

- 1. Standard Specifications for Construction of Highways, Streets, and Bridges TxDOT.
- 2. Special Provisions and Special Specifications TxDOT.
- 3. P.S. & E. Preparation Manual TxDOT.
- 4. Bridges and Structures Operation and Planning Manual TxDOT.
- 5. Bridges and Structures Hydraulic Manual TxDOT.
- 6. Bridges and Structures Design Examples TxDOT.
- 7. Bridges and Structures Bridge Design Guide TxDOT.
- 8. Bridges and Structures Detail Manual TxDOT.
- 9. Bridges and Structures Foundation Exploration and Design Manual TxDOT.
- 10. Standard Specifications for Highway Bridges AASHTO.
- 11. Highway Design Operations and Procedures Manual TxDOT.
- 12. Highway Design Operations and Procedures Manual Part IIB Environmental and Public Involvement. Procedures During Project -Specific Planning and Development TxDOT.
- 13. A Policy on Geometric Design of Highways and Streets ("The Green Book") AASHTO.
- 14. Highway Capacity Manual Special Report 209 Texas Research Board (TRB).
- 15. Technical Advisory T6640.8A FHWA.
- 16. Noise Guidelines TxDOT.
- 17. Air Quality Guidelines TxDOT.
- 18. Flexible Pavement Design Manual TxDOT.
- 19. Guide for the Design of Pavement Structures, 1986 AASHTO.
- 20. Texas Manual on Uniform Traffic Control Devices TxDOT.
- 21. Standard Highway Sign Designs for Texas TxDOT.
- 22. Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals AASHTO.
- 23. Utility Accommodation Policy TxDOT.
- 24. Utility Manual TxDOT.
- 25. ROW, ROW Manual Book I TxDOT.
- 26. ROW, ROW Manual Book II TxDOT.
- 27. Accessible Rights of Way (sidewalks, street crossings, other pedestrian facilities) Design Guide-Nov. 1999
- 28. Code of Federal Regulations, Title 23 "Highway" Federal Register.
- 29. Administrative Order no. 5-89 Signing, Sealing and Dating of Engineering Documents TxDOT.
- 30. Administrative Circular No. 26-91 Minimum signing, Sealing, and Dating Procedures for Department Engineering Documents TxDOT.
- 31. Administrative Circular No. 25-84 Soils Information for High Mast Lighting, Overhead Sign Bridges, and Retaining Walls TxDOT.
- 32. Administrative Circular No. 33-87 -Preliminary Retaining Wall Layouts to be submitted to Division of Bridges and Structures TxDOT. SPI Exhibit B S&B Scope.doc 53 of 54 10/10/2012 40619 Exhibit B

- 1. Administrative Circular No. 25-92 Division of Bridges and Structures to be responsible for all geotechnical Engineering support for foundations, retaining walls, and embankment stability and settlement TxDOT.
- 2. Texas Department of Licensing and Regulations Manual
- NOTES: (1) All Design will be in accordance with the above references, except where variances are permitted in writing by the AUTHORITY.
 - (2) The CONSULTANT is responsible for purchasing all references required for the project.

6/16/2016

PROJECT: Outer Parkway
CLIENT: CCRMA

CONTRACT: x

CSJ: x

Exhibit C -- FEE ESTIMATE

COUNTY: Cameron County
S & B JOB NO.: U2299.600

									-HOURS							4 50 50 1					-	ESTIMATED	
FUNCTION CODE	N DESCRIPTION from Attachment B	FIRM	SERVICE	Principal	Director of QC/QA	Project Manager	Engineer V	Env Manager	Env Scientist	Env Tech	Engineer IV	Engineer I, II	RPLS	2-Man Survey Crew	3-Man Survey Crew	GIS Manager	GIS Technician	Engineer in Training	CADD Operator	Admin/CI erical	TOTAL HRS	FEE	TOTAL
110	DATA COLLECTION/EXISTING CONDITION ANALYSIS																						
110.01.01	Data Collection	S&B	BASIC			4	12		12		60							20	41	10	148	\$22,512.96	
110.01.02	Existing Condition Analysis	S&B	BASIC			4	40				60					1	10			20	155	\$26,010.18	
110.01.03 110.01.04	Right-of-Way (ROW) Research and Mapping Alternative Analysis (See TEDSI's Cost Proposal)	S & B TEDSI	BASIC SPECIAL		+	- 4	80	20			150					1	10		80	10	345	\$59,041.08	
	Sub Total (110 - DATA COLLECTION/EXISTING CONDITION ANALYSIS)	12001	OF EGINE	0	o c	12	132	20	12	0	270	0	0	0	0	2	20	40	140	0	648	\$392,411.17	\$49
110	PRELIMINARY ENGINEERING SERVICES																						
110.02.01	Preliminary Design Concept Conference Preparation	S&B	BASIC			4	8	8			10							10	40	0	80	\$11,043.36	
110.02.01	Design Concept Conference Meeting	S&B	BASIC			2	2	2													6	\$1,400.40	
110.02.01	Prepare Design Concept Conference Meeting Notes	S&B	BASIC				1													3	4	\$437.63	
	Preliminary Horizontal and Vertical Conceptual Design (Part		BASIC																				
110.02.02	of Subtask 110.01.04) Preliminary ROW Requirements	S&B		-		1	40				00										0	\$0.00	
	Generate Preliminary ROW Technical Memorandum (Final	S&B	SPECIAL	-		8	40				80								120	0	248	\$36,836.48	
110.02.03	Deliverable)	S&B	BASIC			1	4				10								10	0 4	29	\$4,243.05	
110.02.04	Preliminary Utility Location Investigations	S&B	SPECIAL			4					80					1	4	40	80	0 7	209	\$28,361.88	
	Preliminary Hydraulic Evaluations (Part of Subtask		SPECIAL																			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
110.02.05	110.01.04)	TEDSI			-													1 10				\$0.00	
110.02.06 110.02.07	Preliminary Construction Cost Estimates Preliminary Constructability Reviews	S&B S&B	SPECIAL		-	4	40				80							10			134	\$25,762.74	
110.02.07	Preliminary Constituciability Reviews Preliminary Engineering Text and Coordination for EA		BASIC			4	40				80									+	124	\$24,735.24	
110.02.08	Development	S&B	BASIC			4	10				80				1						94	\$18,456.24	
	Sub Total (110 - PRELIMINARY ENGINEERING SERVICES)			0	0	31	145	10	0	0	420	0	0	0	0	1	4	60	250	7	928		\$1
110	GEOMETRIC LAYOUT (SCHEMATIC PLAN) DEVELOPMENT																						
110.03.01	Typical Sections	S&B	BASIC			4													40	0	64	\$8,980.84	
110.03.02	Geometric Design (Horizontal and Vertical Control)	S&B	BASIC			4	26				60								80	0	170	\$25,306.04	
110.03.03	Preliminary Design Cross Sections Preliminary Traffic Control and Construction Sequencing	S&B	BASIC		-	13					240								280	0	733	\$116,807.53	
110.03.04	Schematic Plan Preparation	S&B S&B	BASIC			4	80 200				600								800	0	1,604	\$23,365.44 \$230,227.64	
110.03.06	Hydrology and Hydraulic Studies/Drainage Design	TEDSI	SPECIAL			T	200				600								800	U	1,604	\$137,155.77	
	Preliminary Bridge Layout Preparation (Typical Bent Sizing	S&B	BASIC																			Ψ107,100.77	
110.03.07	and #) Sub Total (110 - GEOMETRIC LAYOUT (SCHEMATIC	3 & D	BASIC			16	160				120								240	0	536	\$82,806.16	
	PLAN) DEVELOPMENT)			0	0	45	686	0	0	0	1,020	0	0	0	0	0	0	0	1,500	0	3,251		\$65
110 110.04.01	PRELIMINARY ENGINEERING REPORT (PER) PREPATATION Preliminary Engineering Report (PER) Preparation	S&B	BASIC			16	120				160								40	0 80	416	\$69,867.76	
	Sub Total (110 - PRELIMINARY ENGINEERING REPORT (PER) PREPATATION)	0 4 2		0	0	16	120	0	0	0	160	0	0	0	0	0	0	0	40	80	416	\$69,007.76	\$6
110	MILESTONE SUBMITTALS AND REVIEWS																						
110.05.01	30% Complete Schematic Review Package	S&B	BASIC			4	16				24								5	1	53	\$9,818.01	
110.05.01	Prepare/Attend 30% SRM	S&B	BASIC			1	2				4								10	5	22	\$2,758.94	
110.05.01	30% SRM Meeting Minutes	S&B	BASIC				1				2									4	7	\$894.28	
110.05.02	Preliminary Design Cross Sections Submittal	S&B	BASIC				8				16								10) 4	38	\$5,936.46	
110.05.03	60% Complete Schematic Review Package	S&B	BASIC			4	16				24								5	5 4	53	\$9,818.01	
110.05.03	Prepare/Attend 60% SRM 60% SRM Meeting Minutes	S&B S&B	BASIC			1	2				4								10	5	22	\$2,758.94	
110.05.04	90% Complete Schematic Review Package	S&B S&B	BASIC			A	16				24									4	53	\$894.28 \$9,818.01	
110.05.04	Prepare/Attend 90% SRM	S&B	BASIC			1	2				4								10	1	22	\$9,818.01	
110.05.04	90% SRM Meeting Minutes	S&B	BASIC		<u> </u>	<u> </u>	1				2								10	4	7	\$894.28	
110.05.05	100% Complete Review Package	S&B	BASIC			4	16				24								5	4	53	\$9,818.01	
110.05.06	TxDOT Review (Changes to Schematic if TxDOT/FHWA has revisions)	S&B	BASIC			4	16				24								5	i 4	53	\$9,818.01	
	Sub Total (110 - MILESTONE SUBMITTALS AND REVIEWS)			0	0	23	97	0	0	0	154	0	0	0	0	0	0	0	65	51	390	7-10-10-1	4
110	BASE SOIL TESTING AND CORE DRILLING				-																		
110.06.01	Geotechnical Drilling Services	PSI	SPECIAL																			\$74,124.00	
110.06.02	Geotechnical Laboratory Testing Services	PSI	SPECIAL																			\$25,735.00	
	Geotechnical Engineering Services	PSI	SPECIAL																			\$2,477.52	
110.06.03	Preliminary Pavement Design	PSI	SPECIAL																			\$3,338.34	
110.06.03 110.06.04					I .													T.Co.		1			
	Sub Total (110 - BASE SOIL TESTING AND CORE DRILLING)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$1
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$10

1 of 4

PROJECT: Outer Parkway CLIENT: CCRMA

CONTRACT: x

Exhibit C -- FEE ESTIMATE

COUNTY:	Cameron County
& B.IOB NO ·	112299 600

								1	MAM	I-HOURS									(-17.11)				ESTIMATED	
CODE	FUNCTION CODE	DESCRIPTION from Attachment B	FIRM	SERVICE	Principal •	Director of QC/QA	Project Manager	Engineer \	V Env Manager	Env Scientist	Env Tech	Engineer IV	Engineer I, II	RPLS	2-Man Survey Crew	3-Man Survey Crew	GIS Manager	GIS Technician	Engineer in Training	CADD Operator	Admin/Cl erical	TOTAL HRS	FEE	TOTALS
					0	0	0	0	0	o	0	0	0	0	0	0	0	0	0		0	0		\$0.00
	110	TRAFFIC OPERATIONAL ANALYSIS																						
	110.08	Requirement to be Determined as Project Progresses	TEDSI	SPECIAL																			\$0.00	
		Sub Total (110 - TRAFFIC OPERATIONAL ANALYSIS)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o c	0	0		\$0.00
	110	INTERCHANGE DEVLEOPMENT																						
	110.09.01	Interchange Layout/Design	S&B	BASIC			4	4 80	0			160								16	0	404	\$62,941.64	
		Sub Total (110 - INTERCHANGE DEVLEOPMENT)			0	0	4	80	0	0	0	160	0	0	0	0	0	0	0	160	0	404		\$62,941.64
	110	INTERSTATE ACCESS JUSTIFICATION REPORT (IAJR)																						
	110.10.01	Development of Interchange Justification Report	S&B	BASIC			4	1 100	20	40		160								4		364	\$66,062.24	
	110.10.01	Level of Service Analysis (LOS)	TEDSI	SPECIAL																		0	\$43,411.20	
		Sub Total (110 - INTERSTATE ACCESS JUSTIFICATION REPORT (IAJR))			0	0	4	100	20	40	0	160	0	0	0	0	0	0	0	40	0	364		\$109,473.44

PROJECT: Outer Parkway CLIENT: CCRMA

CONTRACT: x

CSJ: x
COUNTY: Cameron County

Exhibit C -- FEE ESTIMATE

COUNTY:	Cameron Count
& B JOB NO.:	U2299.600

	FUNDATIO:	PERCENTION				-	1			I-HOURS						,							ESTIMATED	
ΤΥ	FUNCTION	DESCRIPTION from Attachment B	FIRM	SERVICE	Principal	Director of QC/QA	Project Manager	Engineer \	V Env Manager	Env Scientist	Env Tech	Engineer IV	Engineer I, II	RPLS	2-Man Survey Crew	3-Man Survey Crew	GIS Manager	GIS Technician	Engineer in Training	CADD Operator	Admin/CI erical	TOTAL HRS	FEE	TOTALS
	120	SOCIAL ECONOMIC AND ENVIRONMENTAL STUDIES																						
-	120.01	Public Involvement Plan	S&B	BASIC					3	40	12										4	59	\$7.846.99	
	120.01.01	Mailing List	S&B	BASIC					3	24								-			8	35	\$4,695.99	
	120.01.02	Public Meeting 1 attendance and associated activities	S&B	BASIC					26	80	24										28		\$21,325.98	
	120.01.02	Public Meeting 2 attendance and associated activities	S & B	BASIC					26												28	158	\$21,325.98	
_	120.01.02	Public Hearing attendance and associated activities	S & B	BASIC					26	80	24										28	158	\$21,325.98	
_	120.02	Environmental Documentation	S&B	BASIC																		0	\$0.00	
	120.02.01	Development of Study Area and Constraints Mapping	S&B	BASIC					6	40											4	90	\$11,127.38	
_	120.02.02	Purpose and Need	S&B	BASIC					3	24											4	39	\$5,152.67	
	120.02.03	Alternative Development and Analysis	S&B	BASIC	ļ				3	24											4	39	\$5,152.67	
	120.02.04	Project Scoping Coordination	S&B	BASIC	ļ	ļ			3	24											4	39	\$5,152.67	
	120.02.05	Land Use	S&B	BASIC	-				3	24	_										4	39	\$5,152.67	
-	120.02.06	Farmland, Soils, and Geology	S&B	BASIC		1			3	24	8										4	39	\$5,152.67	
	120.02.07 120.02.08	Socioeconomic and Environmental Justice Water Resources	CMEC	SPECIAL	1	-		-		010												0	\$27,894.04	
	120.02.08	Historic Resources	S & B CMEC	BASIC	+	-		-	12	216	24										4	256	\$36,289.44	
	120.02.09	Archeological Resources	CMEC	SPECIAL		-															1	0	\$28,227.64	
	120.02.10	Vegetation and Wildlife	S & B	BASIC	-	-		 	-	100												0	\$62,488.70	
-	120.02.11	Threatened and Endangered Species	S&B		1	-		-	8	132	8										4	152	\$21,798.00	
	120.02.12	Traffic Noise	S&B	BASIC	+				2	440	8										4	14	\$1,476.54	
-	120.02.14	Air Quality	S&B	BASIC	+	-		-	3	119	24										4	150	\$20,412.86	
	120.02.15	Hazardous Materials	S&B	BASIC		-			2	94	8										4	14	\$1,476.54	
	120.02.16	Indirect and Cumulative Impacts	CMEC	SPECIAL	+	-			3	94	12										3	109	\$15,579.82	
-	120.02.17	Other Environmental Resources	S & B	BASIC	-	-		-	-	40											1	0	\$19,073.06	
-	120.02.18	Document Preparation and Comment Response	S&B	BASIC		-		-	6	270	0										4	54	\$7,260.94	
-	120.02.19	Preparation of Final NEPA Document	S&B	BASIC	+				1	32	0								-		4	288	\$41,343.20 \$6,134.48	
		Sub Total (120 - SOCIAL ECONOMIC AND ENVIRONMENTAL STUDIES)			0	0	0	0	147	1,367	268	0	0	0	0	0	0	0	0	0	155	1,934	\$6,75	\$402
				1			1															11		
	150	FIELD SURVEYING	l popo																					
	150 150.01	FIELD SURVEYING Horizontal and Vertical Control	RODS	SPECIAL						. 34												0	\$227,500.00	
			RODS	SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$227,500.00	\$22
	150.01	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING)	RODS	SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$227,500.00	\$22
	150.01	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) .LAS FILE PROCESSING			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		\$227
	150.01	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING)	RODS	SPECIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$227,500.00 \$41,100.00	\$227
	150.01	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) .LAS FILE PROCESSING			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) .LAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING)					0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		
	150.01	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) .LAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination	RAM	SPECIAL				0	0	0	0	0		0	0	0	0	0	0	0	0	0	\$41,100.00	
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) .LAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK)	RAM S & B	SPECIAL			144			0	0	0		0	0	0	0	0	0	0	0	0 0	\$41,100.00 \$52,058.88	
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) LAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeting (Prog. Rpts)	RAM S&B S&B	SPECIAL SPECIAL SPECIAL			144 72	72	72	0	0	0		0	0	0	0	0	0	0	0 144 72	288	\$41,100.00 \$52,058.88 \$55,894.32	
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) LIAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeting (Prog. Rpts) Project Coordination Meetings (1 Kick Off and 6 Progress)	RAM S&B S&B S&B	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL			144		72	0	0	0		0	0	0	0	0	0	0	0 144 72 28	288 112	\$41,100.00 \$52,058.88 \$55,894.32 \$21,736.68	
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) LIAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeting (Prog. Rpts) Project Coordination Meetings (1 Kick Off and 6 Progress) Prepare Proj. Meetings Notes	S&B S&B S&B S&B	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL			144 72 28 7	72 28 7	72 28 7	0	0	0		0	0	0	0	0	0	0	0 144 72 28 14	288 112 35	\$41,100.00 \$52,058.88 \$55,894.32 \$21,736.68 \$5,966.94	
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) LIAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeting (Prog. Rpts) Project Coordination Meetings (1 Kick Off and 6 Progress)	RAM S&B S&B S&B	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL			144 72	72	72 28 7	0	0	0		0	0	0	0	0	0	0	0 144 72 28	288 112	\$41,100.00 \$52,058.88 \$55,894.32 \$21,736.68	
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) LIAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeting (Prog. Rpts) Project Coordination Meetings (1 Kick Off and 6 Progress) Prepare Proj. Meetings Notes	S&B S&B S&B S&B	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL			144 72 28 7	72 28 7	72 28 7	0	0	0		0	0	0	0	0	0	0	0 144 72 28 14	288 112 35	\$41,100.00 \$52,058.88 \$55,894.32 \$21,736.68 \$5,966.94	\$41
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) LAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeting (Prog. Rpts) Project Coordination Meetings (1 kick Off and 6 Progress) Prepare Proj. Meetings Notes Cameron County RMA Project Coordination Sub Total (145.01 - Project Administration and	S&B S&B S&B S&B	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	0	0	144 72 28 7 54	72 28 7 27	72 28 7 27		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	0	0	0	0	0	0	0 144 72 28 14 36 294	288 112 35 144	\$41,100.00 \$52,058.88 \$55,894.32 \$21,736.68 \$5,966.94	\$41 \$165
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) LIDAR PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeting (Prog. Rpts) Project Coordination Meetings (1 Kick Off and 6 Progress) Prepare Proj. Meetings Notes Cameron County RMA Project Coordination Sub Total (145.01 - Project Administration and Coordination)	S&B S&B S&B S&B	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	0	0	144 72 28 7 54	72 28 7 27	72 28 7 27	0		0	0	0	0	0	0	0	0		0 144 72 28 14 36 294	288 112 35 144 867	\$41,100.00 \$52,058.88 \$55,894.32 \$21,736.68 \$5,966.94	\$41 \$165 \$2,526
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) LAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeting (Prog. Rpts) Project Coordination Meetings (1 Kick Off and 6 Progress) Prepare Proj. Meetings Notes Cameron County RMA Project Coordination Sub Total (145.01 - Project Administration and Coordination) Sub Total (110 - 150)	S&B S&B S&B S&B	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	0	0	144 72 28 7 54	72 28 7 27	72 28 7 27	0		0	0	0	0	0	0	0	0	2,195	0 144 72 28 14 36 294 587	288 112 35 144 867 9,202	\$41,100.00 \$52,058.88 \$55,894.32 \$21,736.68 \$5,966.94	\$41 \$165 \$2,526
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) LAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeting (Prog. Rpts) Project Coordination Meetings (1 Kick Off and 6 Progress) Prepare Proj. Meetings Notes Cameron County RMA Project Coordination Sub Total (145.01 - Project Administration and Coordination) Sub Total (110 - 150) LABOR TOTALS Total Hours CONTRACT RATES: (\$/MAN-HOUR)	S & B S & B S & B S & B S & B S & B	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	0	0	144 72 28 7 54 305	72 28 7 27 134 1,494	72 28 7 27 134 331	0 1,419	268	0 2,344	0	0 0 0 0	0	0	0	0 0 24	0		0 144 72 28 14 36 294 587	288 112 35 144 867	\$41,100.00 \$52,058.88 \$55,894.32 \$21,736.68 \$5,966.94	\$41 \$165 \$2,526
	150.01 150 150.02	Horizontal and Vertical Control Sub Total (150 - FIELD SURVEYING) LIAS FILE PROCESSING LIDAR processing See RAMS Cost Proposal Sub Total (150LAS FILE PROCESSING) Project Administration and Coordination Project Manager (Proj Coord)(2 HRS/WK) Project Manager Weekly Meeting (Prog. Rpts) Project Coordination Meetings (1 Kick Off and 6 Progress) Prepare Proj. Meetings Notes Cameron County RMA Project Coordination Sub Total (145.01 - Project Administration and Coordination) Sub Total (110 - 150) LABOR TOTALS Total Hours	S&B S&B S&B S&B S&B S&B MULTIPLIER	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	0	0 0	144 72 28 7 54 305 440	72 28 7 27 134 1,494	72 28 7 27 134 331	0 1,419	268	0 2,344	0 0 0	0 0 0 0 0 197.88 52.00	0 0	0 0	0 3 3	0 24	100	2,195 2,195	0 144 72 28 14 36 294 587 587	288 112 35 144 867 9,202	\$41,100.00 \$52,058.88 \$55,894.32 \$21,736.68 \$5,966.94	\$227 \$41 \$165, \$2,526, \$2,526,

PROJECT: Outer Parkway
CLIENT: CCRMA

CONTRACT: x

CSJ: x

Exhibit C -- FEE ESTIMATE

COUNTY: Cameron County
S & B JOB NO.: U2299.600

ACTIVITY CODE	FUNCTION CODE	DESCRIPTION from Attachment B	FIRM	SERVICE		N	ION - LAB	OR									E	STIMATED FEE	TOTALS
	160	NON LABOR																	
		Courier Service	S&B	SPECIAL					Trips	40		\$	50.00					\$2,000.00	
11		Public Meeting Advertising	S&B	SPECIAL								1	-					\$10,000.00	
		Court Reporter/Translation Services	S&B	SPECIAL														\$2,500.00	
-		Field Supplies Noise Meter	S&B	SPECIAL														\$200.00	
		Field Supplies (Noise Meter Rental and Geosearch	S&B	SPECIAL														\$2,300.00	
		Public Meeting Handouts	S&B	SPECIAL	Pages per Ha	indout =	3	Estimated	# 100/meeting	200		\$	0.15					\$90.00	
		Public Meeting Exhibits - Mounting	S&B	SPECIAL	l N	leetings	2		Exhibits	16		\$	175.00					\$5,600.00	
		Design Summary Report Reproduction (@ \$0.15 per page) (8 1/2" X 11" B/W) (8 Copies)	S&B	SPECIAL	Pages per F	Report =	22		Reports =	8		\$	0.15		- 1			\$26.40	
		Schematic Plot 30% Submittal (@ \$8.00 per SF) (22"X 1340" Color on Bond) (3 Copies)	S&B	SPECIAL	SF pe	er Plot =	204	Num	ber of Plots =	3		\$	8.00	4				\$4,896.00	
		Cross Sections Submittal (@ \$8.00 per SF) (22"X 120" Color on Bond) (1 Copies)	S&B	SPECIAL	SF pe	er Plot =	18	Num	ber of Plots =	1		\$	8.00					\$144.00	
		Schematic Plot 60% Submittal (@ \$8.00 per SF) (22"X 1340" Color on Bond) (3 Copies)	S & B	SPECIAL	SF pe	er Plot =	204	Num	ber of Plots =	3		\$	8.00					\$4,896.00	
		Cross Sections 60% Submittal (@ \$8.00 per SF) (22"X 120" Color on Bond) (3 Copies)	S&B	SPECIAL	SF pe	er Plot =	18	Num	ber of Plots =	3		\$	8.00					\$432.00	
		Schematic Plot 90% Submittal (@ \$8.00 per SF) (22"X 1340" Color on Bond) (3 Copies)	S & B	SPECIAL	SF pe	er Plot =	204	Num	ber of Plots =	3		\$	8.00					\$4,896.00	
		Cross Sections 90% Submittal (@ \$8.00 per SF) (22"X 120" Color on Bond) (3 Copies)	S&B	SPECIAL	SF pe	er Plot =	18	Num	ber of Plots =	3		\$	8.00					\$432.00	
		Schematic Plot 100% Submittal (@ \$8.00 per SF) (22"X 1340" Color on Bond) (6 Copies)	S & B	SPECIAL	SF pe	er Plot =	204	Num	ber of Plots =	6		\$	8.00	13.				\$9,792.00	
		Cross Sections 100% Submittal (@ \$8.00 per SF) (22"X 120" Color on Bond) (6 Copies)	S & B	SPECIAL	SF pe	er Plot =	18	Num	ber of Plots =	6		\$	8.00	14.				\$864.00	
		Schematic Plot Additional Submittal if TxDOT/FHWA has revisions (@ \$8.00 per SF) (22"X 1340" Color on Bond) (5 Copies)	S & B	SPECIAL	SF pe	er Plot =	204	Num	ber of Plots =	5		\$	8.00			Transfer of the second		\$8,160.00	
		Travel - Mileage Project Site Visits	S&B	SPECIAL	Mileage p	er trip =	120		Trips =	12	Mileage Rate (\$/mi	.)= \$	0.540					\$777.60	
		Sub Total (F.C. 160)																	\$58,006.
		NON LABOR TOTAL													14.4			\$58,006.00	
		BASIC SERVICE TOTAL															\$	1,185,415.07	
4		SPECIAL SERVICE TOTAL													3 3		\$	1,398,911.79	
		PROJECT TOTAL																	\$2,584,326.8

CCRMA OUTER PARKWAY US-77 TO EAST OF FM-1847 ATTACHMENT "D" FEE PROPOSAL

Preliminary Horizontal Conceptual Design Description		Sr. Project	Sr. Project	Project	Design						****	
Subtask 110.01.04 - Preliminary Hydrology and Studies/Preliminary Drainage Design for Preferred Alignment	Hydraulic	Manager	Engineer	Engineer	Engineer	EIT	Sr Eng. Tech	Eng Tech	CADD	Admin	Total Hours	Cost
Photo intersection of exsiting roadways crossing proposed corrido Compiling Field Notes and Photos	or			32 8		32 8				16 8	80 24	\$ 10,104. \$ 2,891.
Typical Section Controlled access toll roadway with two lanes in each direction		1		4		8	10		16		39	\$ 4,471.
Typical bridge overpass section Outer Parkway Section approach to On-System roadway		1 1		4 4		8	10 10		16 16		39 39	\$ 4,471. \$ 4,471.
On-System under Outer Parkway Typical section for overpass at Arroyo Colorado		1 4		8		8 16	10 24		16 30		39 82	\$ 4,471. \$ 9,684.
Typical section for railroad overpass Plan View		4		8		10	12		16		50	\$ 6,251.
Conceptual plan view for three alternatives Project Meetings		40		80		120	160		300		700	\$ 82,859.
Kick Off – 1 meeting Coordination meetings Project Administration and Invoicing		8 24 24		8 24						4 12 24	20 60 48	\$ 3,460 \$ 10,381 \$ 7,685
QA/QC		24		24						24	48	\$ 9.285.
	Labor Hours Labor Rate	132 \$ 228.87	0 \$ 186.04	208	0 \$ 145.82	218 \$ 112.09	236	0 \$ 108.75	410 \$ 95.36	64 \$ 91.35	1268	\$ 160,488.6
	Labor Cost_	\$ 30.210.84	\$	\$ 32.866.08	\$ -	\$ 24.435.62	\$ 28.032.08	\$ -	\$ 39,097.60	\$ 5,846.40	\$ 160,488 62	
Preliminary ROW Requirements Description		Sr. Project	Project	Project	Design					İ		
Determination of the number of properties impacted		Manager	Engineer 12	Engineer	Engineer	EIT 20	Sr Eng. Tech	Eng Tech	CADD	Admin	Total Hours 80	Cost \$ 11,056.
petermination of the number of properties impacted mpacts. Determination of right of way acquisition cost		8	12 8			20 16	40				80 52	\$ 11,056
Development of ROW technical memorandum DA/OC		16 8	24 8			10	2.7			24	64 16	\$ 10,319.
	Labor Hours	44	64			56	104		0	24	292	\$ 42,799.4
	Labor Rate Labor Cost		\$ 186,04 \$ 11,906,56	\$ 158.01 \$	\$ 145.82 S	112 09 6,277.04	\$ 118,78 \$ 12,353,12	\$ 108.75 \$	\$ 95.36 \$	\$ 91,35 \$ 2,192,40 \$	42,799 40	
reliminary Utility Location investigations		Sr. Prolect	Sr. Project	Project	Danisa							
Description		Manager Manager	Engineer	Project Engineer	Design Engineer	EIT	Sr Eng. Tech	Eng Tech	CADD	Admin	Total Hours	Cost
Develop a contact list of potential utility pipeline companies Development of exhibits to be sent to utility pipeline companies				8		16 16			24	16	40 48	\$ 4,519. \$ 5,346.
Scan record drawings obtained Asintain Utility Coordination Manual dentify potential conflicts				8		24 24			24	24	24 48 56	\$ 2,288.0 \$ 4,882.5 \$ 6,242.0
zentry potential conflicts Prepare list of potential conflicts PA/QC		16		8 16		8			8		24 32	\$ 2,923.0
	Labor Hours	16	0	48	0	88	0	0	80	40	272	\$ 32.393.1
	Labor Rate S Labor Cost S		\$ 186,04 \$	\$ 158,01 \$ 7,584,48	\$ 145.82 \$ \$	112 09 9.863 92	\$ 118.78 \$	\$ 108.75 \$	95 36 7,628 80		32,393 12	
reliminary Hydraulic Evaluations												
Description		Sr. Project Manager	Sr. Project Engineer	Project Engineer	Design Engineer	EIT	Sr Eng, Tech	Eng Tech	CADD	Admin	Total Hours	Cost
ield Investigations and Data Gathering tentify issues/Concerns and Drainage Handling for each alternativ	we	2	8 20	12 20	30	30		40	40	4	106 112	\$ 12,371,9 \$ 16,814.6
Ditain relevant existing hydrologic and hydraulic models. Ditain studies and reports relevant to hydrologic and hydraulic des nvestigate applicable design criteria, regulations, and guidance.		2 2 2	4 4	12 12	20 20	20 20 16				4	50 58 34	\$ 6,725,5 \$ 8,256,2 \$ 4,891,4
AGENCY COORDINATION FEMA Floodplain Administrator - 1 Meeting Cameron County - 1 Meeting		4	4							1	9	\$ 1,750.5 \$ 1,750.5
own of Rio Hondo - 1 Meeting City of Harlingen - 1 Meeting		4	4							1	9	\$ 1.750.9
repare summary of documentation: ocal jurisdictions participation in the National Flood insurance Pro	param	8	12	20				20		8	68	\$ 10,129.4
ocation of existing and proposed floodplain encroachments apacts of improvements on floodplains leed for future map revisions (CLOMRs/LOMRs).	ogram	2 2 4	8 12 12	12 20		16 20	20 20 4	20			78 74 20	\$ 10,186.2 \$ 10,467.8 \$ 3,623.0
Oralnage and Water District coordination Cameron County – 1 meeting		4	4							1	9	\$ 1,750.9
rigation/Drainage Districts – 1 meeting Other Agencies Coordination - 1 meeting OA/OC		4 4 8	4 4 24							1	9 9 32	\$ 1,750.5 \$ 1,750.5 \$ 6,295.9
Project Meetings			-									
Gck Off – 1 meeting &B- limited to 3 meetings troject Administration and Invoicing		12 8	4 12 16							1 3 24	9 27 48	\$ 1,750.9 \$ 5,252.9 \$ 7,000.0
DAVOC		16	16							2.4	32	\$ 6.638.5
	Labor Hours	108	184	108	70	122	44	80	40	55	811	\$ 122,661.7
	Labor Rate \$		\$ 186.04 \$ 34.231.36	\$ 158.01 \$ 17.065.08	\$ 145.82 \$ \$ 10.207.40 \$	112.09 13.674.98	\$ 118.78 \$ 5.226.32	108.75 \$ 8.700.00 \$	95 36 \$ 3,814 40 \$	91.35 5.024.25 \$	122,661.75	
reliminary Construction Cost Estimates												
Description		Sr. Project Manager	Sr. Project Engineer	Project Engineer	Design Engineer	EIT	Sr Eng. Tech	Eng Tech	CADD	Admin	Total Hours	Cost
loadway construction cost (updated three times) for: outer Parkway				4		24			32		60	\$ 6,373.7
rainage Improvement cost stimate cost per parcel based on current CCAD access property v elocation of existing utilities	values			8 4		24 16 8	20 16				32 40 28	\$ 3,954.2 \$ 4,801.0 \$ 3,429.2
DAVIC		8		8		0	10				16	\$ 3,095.0
	Labor Hours	8	0	28	0	72	36	0	32	0	176	\$ 21,653.3
	Labor Rate \$ Labor Cost_\$		\$ 186.04 \$ -	\$ 158 01 \$ 4,424.28	\$ 145.82 \$ \$ - \$	112 09 8 070 48	\$ 118.78 \$ 4,276.08	108 75	95 36 \$ 3,051 52 \$	91.35	21,653 32	
OS Analysis									_			
Description		Sr. Project Manager	Sr. Project Engineer	Project Engineer	Design Engineer	EIT	Sr Eng. Tech	Eng Tech	CADD	Admin	Total Hours	Cost
repare LOS Analysis evelop LOS Diagrams			24 8	40 16	80	24	80 40				224 88	\$ 31,953.3 \$ 11,457,8
	Labor Hours Labor Rate \$ Labor Cost \$	0 228.87	32 \$ 186.04 \$ 5.953.28	56 \$ 158.01 \$ 8.848.56	80 \$ 145.82 \$ \$ 11,665.60 \$	24 112 09 2 690 16	120 \$ 118.78 5 \$ 14.253.60 5	0 108.75 \$	0 95.36 \$	91.35 - \$	312 43,411.20	\$ 43,411.20
		-	0,300,60	. v.vnv.v0		2,000 10	11,000,000			•		
esign Summary Report												
Description		Sr. Project Manager	Sr. Project Engineer	Project Engineer	Design Engineer	EIT	Sr Eng. Tech	Eng Tech	CADD	Admin	Total Hours	Cost
repare and revised design summary report		8			40		40				88	\$ 12,414.9
	abor Hours Labor Rate \$	8 228.87	0 \$ 186.04	0 \$ 158.01	40 \$ 145.82 \$	0 112.09	40 \$ 118.78 \$	0 108.75 \$	95.36 \$	91.35	88	\$ 12,414.96
	Labor Cost_\$	1.830.96	\$ -	3 .	\$ 5,832,80 \$		\$ 4,751.20 \$	- S	- \$	- \$	12,414 96	

TOTAL CONCEPTUAL DESIGN FEE

\$ 435,822.37

TEDSI INFRASTRUCTURE GROUP, INC.

CCRMA
OUTER PARKWAY
US-77 TO EAST OF FM-1847
ATTACHMENT "D"
FEE PROPOSAL

	Š	Sr. Project	iect Sr Project	Project	Decion								
Description	2		Engineer	Engineer	Engineer	EIT	Sr Eng. Tech	Fno Tech	CADD	Admin	Total Hours	tac C	+
											2001	3	10
Hydrologic and Hydrollic Ottodion			0										
Translation of the state of the		4	35	4	40	09			80	10	230	\$ 28	28.601.30
HEC-RAS Models		4	32	4	40	09	40	10		LC.	195	96 \$	26 354 45
HEC-HMS Models		4	32	4	40	9	40	10		יע	195	200	26 254 45
HV & and County Draines Analysis of Cultural On State			1 0		0 (3 :	2	2		ז	000	, CO,	04.400
The air declar diality of culvets and ob systems		4	32	4	40	40	50			Ŋ	145	\$ 20.	20.649.55
Design Documentation (Summary)		00	32	40	40				40	10	170	\$ 24	24 665 34
QA/QC		20	32								25	- C	10 530 68
											1	-	200
	Labor Hours	44	192	56	200	220	100	20	120	35	987	\$ 137.155.77	155.77
	Labor Rate \$	228.87 \$	186.04 \$	158.01	\$ 145.82 \$	112.09	\$ 118.78	\$ 108.75 \$	95.36 \$	91.35			
	1 abor Cost \$ 10 070 28	10 070 28 \$	35 719 68 €	8 848 56	\$ 20 164 00 \$	24 650 90	41 070 00	\$ 247E 00 \$	4 442 20 0		70 707 0 407 4 FF 72		

Tasks 150.01.01-150.01.02 and 150.01.04-150.01.06- Field Surveying

RODS Surveying, Inc. CCRMA

S&B Infrastructure, Ltd. RODS Project No: 079-21506-002

Task 150.01 Field Surveying Suhtask 150.01 01. Horizontal and Varifical Control (Drimary and Secondary)	Field Party		Tach	CADD	Cierical	Total Labor	CADD	Prof	G.P.S.
Subtack 150 01 01 - Horizontal and Vertical Control (Priman, and Connedan)	Gun i Dia		1001			TIS. & COSIS	WOLKSTATION	Abstractor	Static
Setting "Lidar Verification Points" not listed in the scope of services.	220	09	09	30	2	375	30		y
Subtask 150.01.02 - Ownership Research and Right of Entry		20	09	150	100	330	150	200	
Subtask 150.01.04 - Geotechnical Borehole Surveys	09	2	15	10		06	10	200	
Subtask 150.01.05 - Proposed ROW Staking	450	30	30	20		530	20		
Subtask 150.01.06 - Hydraulic Cross Sections	100	10	15	30		155	30		
									7
RODS TOTAL TAKOK HOURS	07.8	304	00.	U.F.C.	30%				
	000	-1	100	740	COL	1480	240	200	6X3
LABOR RATE PER HOUR	\$ 160.00	130.00	\$ 90.00	\$ 90.00	\$ 25.00		\$ 20.00	\$ 85.00	\$ 175.00
TOTAL LABOR COSTS	\$ 132,800.00	16,250.00	\$16,200.00	\$ 21,600.00	\$ 5,775.00	192,625.00	\$ 4.800.00	\$ 17.000.00	\$ 3.150.00
DIRECT EXPENSES:									
Mileage (8,500 mi @ \$0.56/mile)						\$ 4.760.00			
CADD Workstation									
Professional Abstractor									
G.P.S. Static									
GPS R8									
Reproduction & Deliveries						\$ 165.00			
TOTAL						\$ 227.500.00			

Attachment - Cost Proposal

S&B - CCRMA Outer Parkway - CIA, Historic Resources, Archeological Resources, and ICI Services Cox/McLain Environmental Consulting, Inc.

LABOR

Task 1	Task 1 Community Impacts/Socioeconomic/Environmental Justice Analysis (Including Toll Analysis)	\$25 959 04
Task 2	Historic Resources PCR, Research Design, Reconnaissance Survey	\$25,020.64
Task 3	Task 3 Archeological Resources Background. Permit. Intensive Survey	644 020 70 70 020 40
Task 4	Task 4 Indirect and Cumulative Impacts Analysis	041,032.70
TOTAL STREET	maneer and campiante impacts Analysis	\$17,138.06
IOIAL	I UI AL Labor Cost	\$109 200 44

EXPENSES

lask 1	l ask 1 Community Impacts/Socioeconomic/Environmental Justice Analysis (Including Toll Analysis)	\$1,935,00
Task 2	Historic Resources PCR, Research Design, Reconnaissance Survey	\$3 157 00
Task 3	Archeological Resources Background. Permit: Intensive Survey	\$24 AEE OO
Task 4	Task 4 Indirect and Cumulative Impacts Analysis	00.00.49
TOTAL N	TOTAL Nonlabor Expenses	#1,933.00
		00.00t,02¢

TOTAL COSTS - CMEC

\$137,683.44

collection/curation of artifacts not required. Exclusions: network level toll analysis, ecological services, historic resources intensive study, NRHP nominations, HABS/HAER documentation, archeological monitoring, testing, or data recovery, archeological materials processing/conservation/curation, human remains evaluation/coordination/removal. All assume consideration of one alignment. Assumes 50 historic inventory forms. Assumes trenching required based on mapped soils. Assumes arch survey of two parallel transects with 16 shovel/auger tests per mile in each transect and 3 backhoe trenches per mile in each transect. Assumes private land anticipated for acquisition and that Notes/Assumptions: Assumes new location project area of approx. 20 miles in length, 150-foot typical ROW with limited expansions to 250-300 ft at intersections. All studies excluded services could be provided under separate scope/budget.

TABLE 1

Summary of Activities by Task
Geotechnical Investigation Services
Outer Parkway Project - CCRMA
S&B Infrastructure, Ltd.

		Principal	Senior	Staff	Technician	Clerical	Miscellaneous		Drilling	Total	Total
Project Task	Rate (\$/Hr)	Engineer \$ 176.13	Engineer \$ 150.00	Engineer \$ 74.42		\$ 33.12	(Copying, etc.)	8	Sampling 1.00		by Tas
	71410 (47777)	V 110.10	V 700.00	V 74.42	ψ 30.00	V 00.12	7.00	Ψ	7.00		
sk 1 - Field Activities		0	0	40	40		•	•		¢ 4400.00	
lity Clearance and Coordination - Site Visit hicle - Staff Eng. (1 trip @ \$65/trip)		0	0	10 0	10		\$ - \$ 65.00	\$		\$ 1,129.20 \$ 65.00	
lling and Sampling (9 b to 0 to 30 ft. @ \$12.00/ft)		0	0	0	0		\$ 65.00	\$		\$ 3.240.00	
lling and Sampling (9 b to 0 to 30 ft. @ \$12.00/ft)		0	0	0	0			\$	3,240 25,920	\$ 25,920.00	
lling and Sampling (4 b to 150 ft. @ \$18.00/ft)		0	0	0	0		•	\$			
b/Demob Buggy Mounted Drill Rig (1 @ \$400/ea.)		0	0	0	0	0	*	\$	10,800		
b/Demob Support Tool Truck (19 days @ \$150/ea.)		0	0	0	0			\$	400 2,850	\$ 400.00 \$ 2,850.00	
		0	0	0	0		\$ -	\$			
b/Demob - Support Water Truck (19 days @ \$250/ea)		0	0	0	0			\$	4,750	\$ 4,750.00	
ckfilling Borings w/ Bentonite Chips/Slurry (@ \$7.00/ft)		0	0	0			\$ -		16,170	\$ 16,170.00	
gineering Tech Support/Logging (19 days)			_	_	190		\$ -	\$	-	\$ 7,315.00	
p Charge for Eng. Tech Support (19 days @ \$65/day)		0	0	0	0		\$ 1,235.00 \$ 250.00	\$	-	\$ 1,235.00	
ld Supplies (barricades, sample boxes, drums, bags, labels, etc	i.)	U	0	U	U	U	\$ 250.00	Ф	-	\$ 250.00)_ \$ 74,12
sk 2 - Laboratory Testing											
erberg Limits Soils (D4318 95 @ \$58.00 ea)		0	0	0	0	0	œ.	\$	E E 10	£ 5510.00	
		0	0	0	0		\$ -	\$	5,510	\$ 5,510.00	
100 Sieve Analysis (D1140 70 @ 45.00 ea.)		0	0	0	0		1	\$	3,150	\$ 3,150.00	
isture Contents (D2216 296 @ 5.00 ea.)		0	0		0	-			1,315	\$ 1,315.00	
fate Content (C1580 17 @ \$125.00/ea.)		_	_	0			\$ -	\$	2,125	\$ 2,125.00	
il pH (Tex128E 17 @ \$15/ea.)		0	0	0	0		\$ -	\$	255	\$ 255.00	
ne Series Testing (Tex112E 11 @ \$180.00/ea.)		0	0	0	0	_	\$ -	\$	1,980	\$ 1,980.00	
Triaxials (D2850 29 @ \$75 ea.)		0	0	0	0		\$ -	\$	2,175	\$ 2,175.00	
Triaxals (D4767 6 @ \$350.00/ea.)		0	0	0	0		\$ -	\$	2,100	\$ 2,100.00	
Tests (D2166 70 @ \$37.50 ea.)		0	0	0	0		\$ -	\$	2,625		
e Dimensional Consolidations (D2435 10 @ \$450)		0	0	0	0	0	\$ -	\$	4,500	\$ 4,500.00	<u> </u>
sk 3 - Report & Analysis											
eparation of boring logs, profiles and site maps		0	2	20	0	0	\$ 25.00	ır.		£ 4.040.40	
vement Analysis & Recommendations		2	8	24	0	0		\$	-	\$ 1,813.40 \$ 3,338.34	
		0	0	0					-		
off Report and Review					0		\$ -	\$	-	\$ -	
al Report		0	0	0	0	0	\$ -	\$	-	\$ -	- \$ 5,15
I. A. Bustana Adultata da da la Caraca de Cara											
sk 4 - Project Administration & Management ministration & Office Support		0	2	4	0	2	r.	\$		\$ 663.92	
									-		
etings/Teleconferences		0	0	0	0	0		\$	-	\$ -	
cellaneous (copying, mailing/shipping, etc.)		0	0	0	0	0	\$ -	\$		\$ -	- \$ 66
sk 5 - Project Plans and Sepcifications Review											
		0	0	0	0	0	¢	\$		\$ -	
n & Spec. Review - Schematic Design Phase		0								\$ -	
n & Spec. Review - Design Development Phase			0	0	0	0		\$			
n & Spec. Review - Construction Document Phase		0	0	0	0	0		\$	-	\$ -	
rical & Office Support		0	0	0	0	0		\$	10.0	\$ -	
cellaneous (copying, mailing/shipping, etc.)		0	0	0	0	0	\$ -	\$		\$ -	
											\$ -

PROFESSIONAL SERVICE INDUSTRIES, INC.



Phillip J. Pawelek, PE S&B Infrastructure, Ltd 5408 North 10th Street McAllen, Texas 78504 956-926-5004 pijpawelek@sbinfra.com

SCOPE DETAILS:

1) LiDAR Processing

The following Scope of Work describes the task details that are included in the Services to be provided by the SUBCONSULTANT. The SUBCONSULTANT will provide professional surveying and aerial mapping services required for the Recommended Preferred Alternative. The standards and specifications under which this work will be performed are detailed hereinafter under "Standards and Specifications for Surveying Services

Low Altitude LiDAR Mapping

The SUBCONSULTANT has acquire LIDAR imagery and aerial Photography for Rio Hondo(outer loop Parkway).

Data collection was conducted in Dec 2013.

- A) The LiDAR scan was captured with our Trimble Harrier system (Eye Safe) with a scan and pulse rate to generate an aggregate of 3-4 points / m2 on the subject area. Our HALIS® approach coupled with the Fullwave form LiDAR returns (unlimited returns per pulse) with 16 bit intensity allows for point density range capturing key LiDAR returns as the light penetrates through the forest canopy. Up to four (4) coordinate points will be collected for each laser pulse, using multiple return signals from a single laser pulse.
- B) Color imagery (3" pixel) of the subject area was captured simultaneously with the LiDAR scan. Acquiring imagery and LiDAR simultaneously allows for more accurate data using the same IMU, GPS and control position on both sensors to ensure the best fit possible. The use of a co-registered / integrated LiDAR & Image system that captures equidistant swaths of data from the same positional system and solution simultaneously improves work flow efficiency and more accurate data.

E. Acquisition Parameters

The flights was planned to insure sufficient sidelap to avoid data gaps. The LiDAR spot Diameter was approximately 25cm. Aircraft speed and altitude are dependent on the terrain. Our flight planning software generates the safest and most economical data collection parameters for each flight line.

economical data collection parameters for each flight line. The LiDAR data will maintain consistency throughout the project area. The aircraft speed is approximately 120mph at an altitude of 2000'- 3000' AGL. The LiDAR acquisition will meet the minimum standards in the scope of work.

2) .LAS File Processing

A. ABGPS / IMU Post Processed

RAM used TerraPos (GPS+GLONASS) post-processing software based on the principle of Precise Point Positioning (PPP, P3). This processing technique uses post-processed precise satellite ephemeris and various sophisticated error modeling such as troposphere, ionosphere and clock corrections. TerraPos utilizes precise orbits and clock corrections for the satellites, together with advanced error modeling to produce positions with impressing accuracy. The result is an excellent tool for positioning in applications allowing for post-processing, such as airborne photogrammetric or LiDAR operations, seabed mapping, or seismic surveying. Taking advantage of the Trimble Harrier designed stability methodology, we have successfully utilized TerraPos in computing ABGPS, IMU data, LiDAR, and Image orientation, achieving accuracies equal to those computed with ground base stations employed during acquisition flights. For additional control we utilize the National Geodetic Survey (NGS), Continuously Operating Reference Station (CORS) utilizing Trimble Applanix Smart Base software. In order to confirm accuracies requested a base station recording data a 1 second epochs is suggested for production of 1-foot contour intervals. Airborne post processing will use base stations as a top priority with TerraPOS and SmartBase secondary.

B. .LAS Development

After standard GPS post processing the next phase is to combine the laser measurements with the GPS\IMU data. This task is performed in the Topit LiDAR software (Trimble software) where the SBET (Smoothed Best Estimated Trajectories) and SDC (angle and distances) files are combined to produce an LAS file or Point Cloud. Also in this process the laser measurements are transformed from WGS84 coordinate to the client requested Coordinate System.

C. Ground Control / Check Points

Field Survey activities necessary for the successful completion of this project will be provided by Client. Each control point will be compared to the LiDAR to ensure that data collected meets the accuracy requirements expected.

• Page 3 February 15, 2002

Planimetric Mapping from Airborne data

All plan features to include roads utilities, etc, and items visible from the photography.

Digital Terrain Model (DTM)

At Dtm of 10' grid of points will be delivered for this area. This will be part of the classification of the bare earth Lidar data that was collected. This will be a model Key point files with Break lines added were needed.

LiDAR / Image Deliverables:

• Ortho-imagery of the corridor was delivered to the client all ready. The ortho Photography will be re delivered to S&B.

Schedule

The Dtm, Dat and Tin with Plan files can be delivered within two weeks of receiving the check points from the surveyor.

3) Pricing

Outterloop

LIDAR DATA PROCESSING FOR RIO HONDO (OUTERLOOP)

	Acq & 10' 25' grid orthos	Processed Bare earth	Plan Features & Breaklines	total		
Rio Hondo Outer loop (2 mile corridor) Flight and ortho completed Dec 2013	\$0.00	\$26,500.00	14,600.00	\$41,100.00 \$0.00 \$0.00 \$0.00		
	\$0.00	\$26,500.00	\$14,600.00	\$41,100.00		

This includes processing the LiDAR data and the plan features with Road edges and Breaklines for the Outter loop from Previously fly Lidar data from RAM

4-D CONSIDERATION AND APPROVAL OF WORK AUTHORIZATION NO. 7 BETWEEN THE CAMERON COUNTY REGIONAL MOBILITY AUTHORITY AND S&B INFRASTRUCTURE FOR ENVIRONMENTAL SERVICES FOR THE SPUR 54 PROJECT FROM CHESTER PARK ROAD TO I-69E

WORK AUTHORIZATION NO. 7

Professional services including: Environmental Services generally described as Environmental documentation for Spur 54 from Chester Park Road to I-69 SB Frontage Road in the City of Harlingen, Texas, Cameron County to develop Technical Reports and documents in support of an Environmental decision.

Section A. - Scope of Services

A.1 GEC shall perform the Services:

Reference Exhibit A – Services to be Provided by the GEC

A.2 The following Services are not included in this Work Authorization, but shall be provided as Additional Services if authorized or confirmed in writing by the Authority.

N/A

A.3 In conjunction with the performance of the foregoing Services, GEC shall provide the following submittals / deliverables (Documents) to the Authority.

Reference Exhibit A – Services to be Provided by the GEC

Section B. - Schedule

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule:

This Work Authorization No. 7 shall become effective ______, 2016 and shall terminate on June 30, 2017, unless extended by a Supplemental Work Authorization. The deliverable (application) shall be made by May 30, 2017.

Section C. - Compensation

- C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed \$44,013.96 based on the attached fee estimate as shown in Exhibit C. Compensation shall be in accordance with the Agreement.
- C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

Section D. - Authority's Responsibilities

The Authority shall perform and/or provide the following in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance with the following:

Reference Exhibit D – Authority's Responsibilities

Section E. - Other Provisions

The parties agree to the following provisions with respect to this specific Work Authorization: N/A

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

Authority:

Cameron County Regional

GEC:

S&B Infrastructure, Ltd.

By:

Mobility Authority Pete Sepulveda Jr.

By:

Daniel O. Rios, PE

Signature: Title:

Signature: Title:

Date:

Date:

Exhibits:

Exhibit A – Services to be Provided by the GEC

Exhibit B – Scope of Services Exhibit C - Schedule of Work Exhibit D - Fee Estimate

EXHIBIT A SERVICES TO BE PROVIDED BY THE AUTHORITY Spur 54

County:

Cameron

Highway:

Spur 54

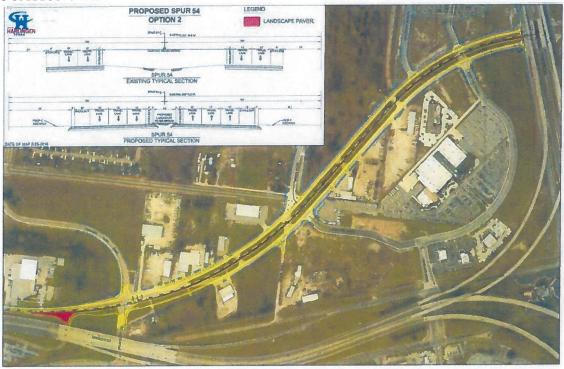
Limits:

From: Chester Park Road to I-69E SB Frontage Road

Project Length:

Approximately 0.84 miles

LOCATION MAP:



In addition to the services listed in the Agreement, the Cameron County Regional Authority (AUTHORITY) will provide the following services:

- 1. The AUTHORITY will collect and provide hard copy and digital copy of previously completed work, cost estimates, design files for exhibits, record drawings, public involvement, traffic data for roadway, property ownership digital mapping, survey ground control and public utility information as required to complete the task.
- 2. The AUTHORITY shall provide timely approvals and responses, enabling the project to move forward smoothly and with minimal delay. When delays in issuing approvals and responses are anticipated by the AUTHORITY, the AUTHORITY will communicate this to the CONSULTANT and allow project schedule to be adjusted accordingly.

EXHIBIT B SERVICES TO BE PROVIDED BY THE CONSULTANT Spur 54

County:

Cameron

Highway:

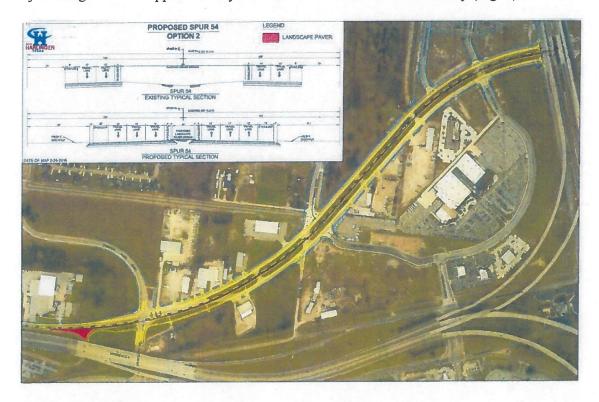
Spur 54

Limits:

From: Chester Road to I-69E SB Frontage Road

Project Length:

Approximately 0.84 miles. See Below Location Map (Fig. 1)



Project Overview:

The CONSULTANT under this Work Authorization will provide environmental services associated with the development and advancement of the National Environmental Policy Act (NEPA) process for the proposed Spur 54 Project, when used in conjunction with existing roadways will provide improved traffic movement between I-69E and I-2. The tasks associated with this project will include the development of the necessary environmental documentation, within a 12 month period. The assumption for Project Management services is reflected for a 12 month period.

Environmental Process Completion – Tasks include agency coordination and the appropriate environmental documentation for connections to roadways on the State Highway System.

The CONSULTANT will perform these tasks according to Exhibit C, Work Schedule. The CONSULTANT will function as an extension of the AUTHORITY's resources by providing

qualified technical and professional personnel. Services to be provided by the CONSULTANT will be performed under the direction of the AUTHORITY for each task described below for the project limits depicted in Figure 1.

SCOPE OUTLINE:

TECHNICAL REPORTS INCLUDING ENVIRONMENTAL DOCUMENT

Task 1: Prepare Scoping Document

Task 2: Meeting with TxDOT/CCRMA

Task 3: Hazardous Materials Technical Report and ISA

Task 4: Biological Evaluation Form

Task 5: Noise Analysis Documentation

Task 6: Archeological Background Study

Task 7: Historic Resources PCR Form

Task 8: Air Quality (Qualitative MSAT) Technical Report

Task 9: Public Involvement (Opportunity for Public Hearing)

Task 10: General Coordination

SCOPE DETAILS:

The following Scope of Work describes the task details that are included in the Services to be provided by the CONSULTANT in the Work Authorization. Work performed under this work authorization will be performed in accordance with TxDOT's latest practices, criteria, specifications, policies, procedures, and Environmental Compliance Toolkits relevant to the environmental document. All documents shall be sufficient to satisfy the procedures given in the current Environmental Compliance Toolkit available from the State. The CONSULTANT shall develop technical reports and documents in support of an environmental decision. The CONSULTANT will provide all draft deliverables technically compete without data gaps. All final deliverables will address and incorporate all comments by the CCRMA. The CONSULTANT will consult with the CCRMA and TxDOT during the development of the deliverables. The CONSULTANT will deliver 2 electronic copies to the CCRMA and TxDOT Pharr District for the task below in Microsoft Word and Adobe pdf formats.

TECHNICAL REPORTS INCLUDING ENVIRONMENTAL DOCUMENT

Task 1: Scoping Document

Per 43 TAC §2.44, developing a project scope is required for any TxDOT and Local Government Sponsored Transportation project. The CONSULTANT will prepare the Project Scope for Environmental Review Documents from early in project development process to outline the project sponsor and department delegate responsibilities for the project and obtain an initial project classification from TxDOT.

Deliverables:

• Draft and Final Project Scope for Environmental Review Documents Form for CE

Task 2: Meeting with TxDOT/CCRMA

The CONSULTANT will conduct a kick-off meeting with TxDOT-Pharr District/CCRMA representatives to discuss schedule, project purpose and need, proposed project limits, typical section, proposed letting etc. to kick off the project.

Deliverables:

• Draft and Final Meeting Minutes of Kick-Off meeting

Task 3: Hazardous Materials Technical Report and ISA

The CONSULTANT will conduct an initial site assessment (ISA) to determine the potential for encountering hazardous materials in the project area. The assessment will consist of the following tasks:

- Obtain a regulatory agency database search with minimum search distances conducted in accordance with American Society for Testing and Materials (ASTM) 1527-13.
- Conduct field reconnaissance to verify those sites identified from the regulatory agency database search and to document any visual and/or olfactory evidence of potential environmental concerns in the project area.
- Sites that are identified in the regulatory database search or as a result of the field reconnaissance will be ranked to evaluate the potential for petroleum and/or hazardous materials contamination in the project area.
- Preparation of the TxDOT Hazardous Materials Initial Site Assessment

Note: This assessment does not include a Phase I (ASTM E1527-13) or Phase II Environmental Site Assessment, interviews with property owners, or reviews of fire insurance maps, deed records, city directories, property tax files or other sources.

Deliverables:

Draft and Final TxDOT Hazardous Materials Technical Report and ISA

Task 4: Biological Evaluation Form

The CONSULTANT will provide a Biological Evaluation Form as per the current TxDOT standards. The form will include the following information.

- Aerial Map with delineated project boundaries
- USFWS T&E List
- TPWD T&E List
- Species Impact Table
- NDD EOID List and Tracked Managed Areas
- USFWS CBRA Mapper Printout
- EMST Project MOU Summary Table
- TPWD SGCN List
- FPPA Documentation

- NRCS Web Soil Survey Map
- Census Bureau Urbanized Area Map
- Landscaping Plans
- Photographs

The CONSULTANT shall examine existing data to determine the likelihood that protected species, their habitat or designated critical habitat (per 50 C.F.R. 17.94-95) could be impacted by the proposed project. The CONSULTANT shall not perform species-specific presence/absence surveys for protected species or critical habitat (per 50 CFR 17.94-95). If required, presence/absence and/or critical habitat surveys would be performed under a separate supplemental work order as needed.

Deliverable:

• Draft and Final Biological Evaluation Form

Task 5: Noise Analysis Documentation

The CONSULTANT will provide documentation to place in the file for not conducting a noise analysis.

Deliverable:

Draft and Final Memo to File on Noise analysis results.

Task 6: Archeological Background Study

The CONSULTANT will conduct database searches of the restricted Sites Atlas maintained by the Texas Historical Commission (THC) and Texas Archeological Research Laboratory (TARL) to identify previously documented archeological sites, cemeteries, historical markers, properties and districts listed on the National Register of Historic Places (NRHP), and State Antiquities Landmarks (SALs). Results of the search will be integrated with soil information, topographic maps, aerial photographs, and other appropriate data sources and will be presented in an Archeological Background Study meeting TxDOT requirements. Due to the new-location nature of the project, it is assumed that field study will be required.

Deliverables:

Draft and Final Archeological Background Study

Task 7: Historical PCR

The CONSULTANT will conduct database searches of the public Sites Atlas maintained by the THC to identify previously documented cemeteries, historical markers, properties and districts listed on the National Register of Historic Places (NRHP), and State Antiquities Landmarks (SALS). The results of the background research will be presented in a Project Coordination Request (PCR) according to current TxDOT policy at the time the work is undertaken. Based on the nature of the project, it is assumed that a field study will not be required.

Deliverables:

Draft and Final Historic Resources PCR Form

Task 8: Air Quality

The CONSULTANT will provide an Air Quality Technical Report in accordance with the current version of the Air Quality Handbook and Air Quality Toolkit.

Deliverables:

• Draft and Final Air Quality Technical Report.

Task 9 Public Involvement (Opportunity for Public Hearing)

The CONSULTANT will provide public involvement support throughout the projects development. All public involvement procedures shall be in accordance with 43 Texas Administrative Code (TAC) Part 1, Chapter 2 and 36 CFR 800.2 and the AUTHORITY'S latest policies, procedures and guidance and current TxDOT guidance/Environmental Compliance Toolkit.

The CONSULTANT shall develop a project mailing list. The mailing list shall include the owners of property adjacent to the build alternatives, elected officials and others who have requested notification of public involvement activities.

The CONSULTANT will assist the AUTHORITY make all arrangements for an Opportunity for a Public Hearing (OPH). All public involvement procedures shall be conducted in accordance with 43 Texas Administrative Code (TAC) 2.40-2.50, Code of Federal Regulations, Title 23, Part 771 and TxDOT's Environmental Manual. The final notice shall be translated to Spanish delivered to the AUTHORITY so the AUTHORITY can publish the notice in one (1) English newspaper and one (1) Spanish newspaper. Both papers are to have circulation in the project area.

Deliverables:

- Draft Notice (for an Opportunity for Public Hearing)
- Final Notice English (for an Opportunity for Public Hearing)
- Final Notice Spanish (for an Opportunity for Public Hearing)
- Project Database/Mailing List

Task 10: General Coordination

The CONSULTANT will perform project administrative and coordination duties, including contract administration, project management, meeting minutes of all meetings and telephone conversations and other related administrative tasks (e.g., direct costs) associated with the project, including:

A) Progress Reports and Invoices – Prepare monthly invoices and progress reports for the work tasks, together with evidence of work accomplished during the time period since the

previous report. The monthly progress reports will include: Activities completed, initiated or ongoing during the reporting period; Activities planned for the coming period; Problems encountered and actions to remedy them; Overall status, including a tabulation of percentage complete by task; Updated project schedule; Minutes of study meetings and copies of monthly correspondence.

- C) Record Keeping and File Management Maintain all records and files related to the project throughout the duration of the services.
- D) Correspondence Prepare written materials, letters, etc. used to solicit information or collect data for the project and submit them to the AUTHORITY for review and approval prior to its use or distribution. Copies of outgoing correspondence and incoming correspondence will be provided to the AUTHORITY on a continuing, at least monthly, basis.
- E) Managing Change -Communicate in a timely manner all types of change that may occur in the project including but not limited to schedule, personnel, scope and work product changes. The AUTHORITY approved change(s) shall then be incorporated into the project schedule in a timely fashion to minimize any unnecessary rework.
- F) Meeting with CCRMA and updating CCRMA board on progress of project.

Deliverables:

- Monthly progress report that delineates activities performed per function code
- Monthly invoice/billings with list of products delivered per invoice billing cycle

Additional Services

The following services area not included in the scope of services for this work authorization and if required, would be conducted under a separate work authorization:

- Archeological Testing and Data Recovery
- Intensive Historic Survey
- Preparation and coordination for Section 4(f) or Section 6(f)
- Preliminary Jurisdictional Determination Report
- USACE Section 404 Individual Permit or nationwide Permit Preconstruction Notification
- Mitigation Plans
- Threatened and Endangered Species Presence/Absence Surveys
- Preparation of a Biological Assessment or Biological Evaluation
- Section 7 Consultation
- Traffic Noise Analysis and Workshop
- Advertisement of Notices in Local Newspaper

EXHIBIT "C"Schedule of Work

The **Engineer** will diligently pursue the completion of the **Project** as defined by the milestones and deliverable due dates.

The **Engineer** will inform the **Owner** (in reasonable advance of the delay) should the **Engineer** encounter delays that would prevent the performance of all work in accordance with the established schedule(s) of work.

NOTICE TO PROCEED -- Upon Execution

PROVIDE ALL DELIVERABLES AS STATED IN WORK ORDER - May 30, 2017

PROJECT: Spur 54
CLIENT: CCRMA
CONTRACT: x

Exhibit D -- FEE ESTIMATE

CSJ:
COUNTY: Cameron County
S & B JOB NO.: U2299.xxx

	FUNCTION	NCTION DESCRIPTION CODE from Attachment B	FIRM	SERVICE	<u></u>			MAN-HOURS											ESTIMATED					
	CODE				Principal	al Director of QC/QA	Project Manager	Engineer V	Env Manager	Env Scientist	Env Tech	Engineer IV	Engineer I, II	RPLS	2-Man Survey Crew	3-Man Survey Crew	GIS Manager	GIS Technician	Engineer in Training	CADD Operator	Admin/CI erical	CI TOTAL F	FEE	TOTALS
		ENVIRONMENTAL STUDIES																						
	Task 1	Prepare Scoping Document	S&B	BASIC					2	-	16										2	20	\$2.085.44	
	Task 2	Meeting with TxDOT/CCRMA	S&B	BASIC					4	16												20	\$3,135.72	
	Task 3	Hazardous Materials Technical Report and ISA	S&B	BASIC					2		60							4			2	68	\$6,682.60	
	Task 4	Biological Evaluation Form	S&B	BASIC					2		32							4			2	40	\$4,018.68	
	Task 5 Task 6	Noise Analysis Documentation Archeological Background Study	S & B	BASIC					2	16	6							8			2	28	\$3,698.96	
	Task 6	Historical PCR	CMEC	SPECIAL																		0	\$1,129.62	
	Task 8	Air Quaility Technical Report	CMEC S & B	SPECIAL				-														0	\$1,033.36	
	Task 9	Public Involvement Opportunity for Public Hearing	S&B S&B	BASIC					2		40							4			2	48	\$4,779.80	
	Tuokis	T done interventent opportunity for 1 done freating	S&B	BASIC					2		40							4			2	48	\$4,779.80	
			S&B	BASIC															100000			0	\$0.00	
			- O d D	BASIC																	1	0	\$0.00	
		Sub Total (- ENVIRONMENTAL STUDIES)			0	0	0	0	16	32	188	0	0	0	0	0	0	24	0	0	12	272		\$31
	Task 10	Project Administration and Coordination														-								
		Project Manager (Proj Coord)(2 HRS/WK)	S&B	SPECIAL					24										-		8	32	\$5,540.64	
		Project Manager Weekly Meeting (Prog. Rpts)	S&B	SPECIAL																		0	\$0.00	
	ļ	Project Coordination Meetings Prepare Proj. Meetings Notes	S&B	SPECIAL			6		18												8	32	\$6,020.16	
			S&B	SPECIAL															Parity -			0	\$0.00	
		Cameron County RMA Project Coordination	S&B	SPECIAL																		0	\$0.00	
		Sub Total (Task 10 - Project Administration and Coordination)			0	0	6	o	42	0	o	0	0	0	О	0	0	0			16	64		\$11,
		Sub Total (- 150)			0	0	6	0	58	32	188	0	0	0	0	0	0	24	0	0	28	336		\$42,
		LABOR TOTALS																						\$42,
		Total Hours	MULTIPLIER		0	0	6	0	58	32		0	0	0	0	0	0	24	0	0	28	336		
		CONTRACT RATES: (\$/MAN-HOUR) BASE RATES: (\$/MAN-HOUR)	3.8054		361.51	323.46	285.41	209.30	205.49	144.61	95.14	190.27	152.22	197.88	152.22	190.27	171.24	102.75	102.75	91.33	76.11			
		BASE RATES. (\$/MAIN-HOUR)			95.00	85.00	75.00	55.00	54.00	38.00	25.00	50.00	40.00	52.00	40.00	50.00	45.00	27.00	27.00	24.00	20.00			
	160	NON LABOR Courier Service	S&B	SPECIAL							Trips	/			A 50.00									
		Public Meeting Advertising	S&B	SPECIAL							Trips				\$ 50.00						-		\$150.00	
		Field Supplies	S&B	SPECIAL																	-		\$0.00	
		Geosearch Data Report	S&B	SPECIAL	-														-				\$0.00	
		Paper Copies of EA	S&B	SPECIAL			Pages per	Document =		Repor	ts/Submittals				\$ 0.15						-		\$700.00 \$0.00	
		Travel - Mileage Project Site Visits	S&B	SPECIAL				age per trip =	120		Trips =	4	Mileage Rat	te (\$/mi.)=									\$259.20	
		Sub Total (F.C. 160)																					φ239.20	0.4
		NON LABOR TOTAL																						\$1
																							\$1,109.20	
		BASIC SERVICE TOTAL														-		1				s	29,181.00	
		SPECIAL SERVICE TOTAL						-		1					201			Zab I				\$	14,832.98	
		PROJECT TOTAL																						\$44,0

4-E CONSIDERATION AND APPROVAL OF PHASE IV OF TASK ORDER 1602 BACK OFFICE SYSTEM IMPLEMENTATION WITH FAGAN CONSULTING



MEMORANDUM

TO: CCRMA Board of Directors

FROM: Adrian Rincones

DATE: July 10, 2016

SUBJ: Consideration and Approval of Phase IV of task order 1602 Back Office System

Implementation

This Task Order will serve as the final phase of the implementation of the CCRMA BOS. Since the awarding of the RFP Fagan has been working closely with CCRMA staff and the vendor Toll Plus through the various phases of the development. Business Rules have been finalized for each of the major modules to match BOS performance capabilities, major modules have been designed and developed, the remaining work involves various interfaces, testing, and implementation. Fagan serves as our primary source of subject matter experts for the BOS and has estimated the time to cover the final implementation through January 2017 within this final phase. If the implementation continues to run smoothly as the past four months the BOS could be potentially going live as soon as October 2016.

Sufficient funds have been budgeted to cover this phase and an extended period for the first year after implementation from bond project funds.

Staff recommends approval.



Supplemental Task Order

CAMERON COUNTY REGIONAL MOBILITY AUTHORITY

Task Order Number: 1602

Task Order Name: Back Office System and Customer Service Center - Phase 4

Task Order Effective Date: June 1, 2016

CCRMA Contact for this Task Order: Jeff Saurenmann

I. Introduction (Statement of Purpose and Need)

This task order defines Fagan Consulting's scope of work as part of Phase 4 of Cameron County Regional Mobility Authority's Back Office System and Customer Service Center project. Phase 4 includes: finalization of system design including reports, interfaces, correspondence, testing, and post implementation support.

Project background information:

CCRMA currently operates toll facilities in Cameron County utilizing an electronic toll collection system that employs automatic vehicle identification using transponders and a violation enforcement system with integrated cameras to capture digital images of license plates.

CCRMA contracts with the Central Texas Regional Mobility Authority for access to the Texas Statewide Interoperability System and to provide Customer Service Center (CSC) services for its customers.

In order to better serve CCRMA's customers, increase revenue and financial control, and support local violation processing, collections, and court efforts, CCRMA intends to implement a Back Office System (BOS) and local CSC operations.

A local BOS will allow CCRMA flexibility to implement agency business rules locally related to violation processing while still participating in Statewide Interoperability to support customers with TxTag, TollTag, and EZ-Tag accounts. CCRMA does not intend to issue CCRMA transponders at this time and plans to continue promoting TxTag for CCRMA toll road customers.

CCRMA will establish a local CSC and BOS that includes the following capabilities:

 Account management including customer address, contact, payment, history and vehicle information



- Payment processing for credit and debit cards, cash, check, and electronic transfers via customer walk-ins, mail, phone, and website
- Violation accounts including generation of Toll Bills, Notice of Toll Violations, and collections processes
- Court Processes and generation of evidence packets for submittal to the Justice of the Peace Court system
- Prepaid and postpaid registered customer accounts based on license plate information
- Manual processing of license plate images
- · Automatic extraction of license plate images using Optical Character Recognition
- Customer correspondence via mail and email
- National Change of Address verification services
- Customer Service Center website supporting account maintenance and payment processing
- Registered vehicle owner name and address retrieval using Department of Motor Vehicles database integration
- Document scanning system to link documents to customer accounts
- Suite of standard reports including financial, operational, and system performance reporting
- Maintenance Online Management (MOMS) for Back Office System Equipment

CCRMA will partner with other state and local entities to obtain vehicle owner information and information sharing with the court system.

CCRMA has obtained facilities to provide a storefront that will be staffed with a small local team responsible for image review, customer service inquiries, payment processing via phone and walk-ins, collection efforts and establishment of payment plans, and court package creation.

CCRMA has visited other toll agencies of similar size and operations to gain knowledge of their operational and system approach and capabilities.

Fagan Consulting's role in this project has been managed in multiple phases:

- Phase 1 Cost / Risk Analysis, site visits, Project Kick-off, and Business Rule development
- Phase 2 RFP development and issuance, proposal evaluation, vendor selection and contract negotiation
- Phase 3 Requirements gathering, business rule management, traceability, and system design



 Phase 4 – Finalization of system design including reports, interfaces, and correspondence, Testing including factory, integration, and site acceptance testing, implementation and post implementation monitoring, and standard operating procedure (SOP) development

With the Phase 3 nearing completion, this project is now entering Phase 4. During this phase Fagan Consulting will work closely with CCRMA, CCRMA partners, and the selected Back Office System provider (TollPlus), to finalize the design of the Back Office System, including reports, interfaces, and correspondence while moving forward to the testing and implementation tasks. Fagan Consulting will also monitor system development, completion of vendor deliverables, and provide support as CCRMA being preparation for implementation. Fagan Consulting will closely coordinate with CCRMA's staff during all phases of the project, and work with their partners / vendors as directed by CCRMA. Fagan Consulting will also have primary responsibility in ensuring the products delivered meet the requirements of CCRMA and are fully demonstrated and tested to ensure such.



II. Scope of Work - Phase IV

Fagan Consulting understands its primary tasks regarding Phase 3 of the BOS and CSC project include the following:

- 1. Oversight of the documentation of required system requirements, specifications and design related to systems and operational requirements.
- Management of CCRMA business rules including additions and modifications to achieve operational and financial goals.
- 3. Review and provide comments/direction on all contractor-provided submittals, including: system design documents, testing documentation including test plans, test scripts, and test reports, updates to the requirements traceability matrix and system design documents, training materials, system manuals, maintenance plan, disaster recovery plan, and required as-built documentation updates.
- 4. Participate in project meetings as toll system and operations subject matter expert.
- Review, comment on and in some cases develop documentation of envisioned systems
 to ensure feasibility of integrating the new systems/operations with CCRMA's existing
 systems/operations.
- 6. Oversee contractor work resulting from the project scope described above.

III. Task Outputs by Consultant

Outputs from the task include the following:

- 1. Technical information as requested/required by/for Back Office System provider and other partners.
- 2. Project artifacts including meeting agendas & minutes, project charter, project plan, project schedule, and status reports as required.
- 3. Development/refinement of technical requirements, business rules, and SOPs as needed by CCRMA.
- 4. Comments related to all submitted documentation regarding efforts described above.

IV. Work Schedule

The work schedule below represents **Phase 4** as described above. The duration of the task is estimated to last from June 2016 through January 2017.

The schedule may be accelerated if the Back Office System provider is able to deliver required Back Office System software in an expeditious manner, assuming all requirements are fully met in accordance with the terms of the agreement.



V. **Compensation** (NOTE: Compensation will be based on actual hours worked and direct billable expenses incurred. The following is a budgetary Maximum-not-to-Exceed amount).

Assigned Staff	Hourly Rate	Total Estimated Hours	Estimated Cost
Saurenmann	\$171.00	880	\$150,480
Fagan / Brownsberger	\$191.00	30	\$5,700
Sub Total		910	\$156,180
Expenses (travel)	\$1,000 per trip	8	\$8,000
Total Cost			\$164,180

VI. Estimated Hours by Back Office System implementation phases

Implementation Process	Interfaces / Reports / Letters	Testing	Post Implementation Support
Estimated Duration	Jul – Sept 2016	Oct - Nov 2016	Dec - Jan 2017
Estimated Hours	280	360	240

VII. Task Order Maximum-not-to-Exceed Amount (If applicable).

The maximum-not-to-exceed amount of this task order is \$164,180



VIII. Governing Terms

This Task Order #1602 will be governed by the terms and conditions of the Professional Services Contract between the Cameron County Regional Mobility Authority and Fagan Consulting, LLC dated June 26, 2014, if and as amended (the "Contract"), which is incorporated herein by reference. Any capitalized terms not defined in this Task Order shall have the definitions ascribed to them in the Contract.

The Parties have signed, sealed and delivered this Task Order effective as of the Task Order Effective Date set forth above.

Cameron County Regional Mobility Authority

BV: Tresultarles

Fagan Consulting, LLC

4-F CONSIDERATION AND APPROVAL OF COUNTYWIDE TRZ CONSULTING SERVICES WITH TXP INC.



MEMORANDUM

TO: CCRMA Board of Directors

FROM: Jesus Adrian Rincones

DATE: July 6, 2016

SUBJ: Consideration and Approval for TXP Inc. Consulting Services to provide services

regarding Countywide Transportation Reinvestment Zone

In November 2015 the CCRMA contracted TXP Inc. to provide consulting services for the development of the Countywide Transportation Reinvestment Zone. TXP provided forecasts of tax base and revenue growth along with the increment value required on the Countywide TRZ.

The attached request is for TXP to assist CCRMA CFO in the calculation of the annual increment with consideration of all existing TIRZ, Tax Abatements, GIS Mapping and formula calculations for the increment on an annual basis.

The assistance with this calculation will also provide additional assurance and credibility to the forecasted revenue. Task should be completed before the end of the fiscal year.

Staff recommends approval.



supposed to have a project plan and financial forecast. These documents should provide insights into the amount of growth in these zones.

5. Update the Countywide TRZ Forecast based on TIRZ Participation – The initial countywide TRZ forecasts will be refined to take into consideration existing TIRZs and other tax abatements. Some of the existing TIRZ do not end for 15 years. TXP will create a spreadsheet model that depicts how these TIRZs impact the countywide TRZ revenue stream.

Deliverable

The project will have three deliverables:

- 1. A list of current parcels in each TRZ
- 2. A map depicting each TIRZ within Cameron County
- 3. Updated countywide TRZ forecast

Estimated Timeline

This assessment should be completed within approximately 90 days.

Professional Fee & Payment Schedule

The professional fee for this project will be billed hourly but not to exceed **\$25,000**. This fee includes all "normal" costs of doing business (ex. phone, fax, and routine copying costs). TXP will use the following staff hourly rates:

- Travis James \$175 per hour
- Jeanette Rottas \$100 per hour

Any travel expenses and other costs will be billed at cost to the client not to exceed \$3,500.

After you have a chance to review the preliminary Scope of Work, please call me to discuss.

Best regards,

Travis D. James

Vice President S

Agreed to by:

Jigitatai

Frank Parker, Jr.

Chairman



June 27, 2016

Mr. Adrian Rincones
Chief Financial Officer
Cameron Country Regional Mobility Authority
3461 Carmen Avenue
Rancho Viejo, Texas 78575

Dear Mr. Rincones,

Thank you for the opportunity to provide consulting services to the Cameron Country Regional Mobility Authority. This letter summarizes our conversations regarding an analysis related to documenting and evaluating the existing tax increment reinvestment zones (TIRZ) in Cameron County. Based on information you provided, Cameron County participates in nine TIRZs created by local municipalities. Because these existed prior to the countywide transportation reinvestment zone (TRZ), the TIRZs receive the tax increment before the countywide TRZ. This calculation should be performed each year when determining the TRZ increment.

Preliminary Scope of Services

TXP has divided the scope of work into the following tasks:

- 1. Validate the Number of TIRZ in Cameron County The Cameron Appraisal District provided some initial information on the TIRZs in Cameron County, but this information does not completely match your initial list. TXP will contact Cameron County as well Brownsville, Harlingen, La Feria, San Benito, Port Isabel, Los Fresnos, and South Padre Island to confirm which TIRZs include Cameron County participation. In addition, TXP will contact the Brownsville Navigation District about any TIRZs this entity might have created.
- 2. **Research Cameron County Tax Abatements** In addition to the TIRZs, Cameron County might have granted tax abatements. TXP will contact Cameron County to discuss any existing abatements.
- 3. Map each TIRZ in GIS TXP will work with each city to formally map each TIRZ if this has not already been done by each community.
- 4. **Obtain Annual TIRZ Reports** Each city is required to produce annual reports on the performance of a TIRZ. TXP will request the cities provide this information. By state law, a TIRZ is

4-G CONSIDERATION AND APPROVAL OF EMERGENCY REPAIRS ON SH550



July 13, 2016

Emergency Procurement Procedures - Erosion Repairs SH550

The SH 550 has been in need of erosion repairs and maintenance for some time now. Early signs of deterioration could be seen as far back as 2014 in certain areas of the Port Spur Project. The heavy rains and lack of vegetation have only increased the rate of erosion since then. The erosion has in some areas created cracks as deep as 3 feet and has traveled up to the road leaving the surface and subgrade areas exposed.

The original plan to address the issues was to have the contractor that would be assigned the construction of the gap projects to implement the corrective measures within the scope of the respective projects. The launching of the gap projects unfortunately have been delayed longer than expected leaving the erosion problems to worsen and become more critical. (See Exhibit A)

In June of 2016 staff again inspected the problem areas and recommended immediate action to the Executive Director in certain critical areas. Contractors were contacted and asked for pricing for these critical areas, a contractor was selected and work was performed and completed within two days (See Exhibit B).

DECLARATION OF AN EMERGENCY

With the potential for additional heavy rains brought by tropical storms or hurricanes to cause additional erosion on SH550, and the resulting imminent danger to the traveling public, impediment to public safety vehicles responding to emergencies, and disruption of the safe and efficient flow of traffic and commerce, the CCRMA General Engineering Consultant has provided the attached recommendation that the conditions warrant the use emergency procurement procedures provided for under Section 11 of the CCRMA's Procurement Policies (See Exhibit C). Based on this recommendation, I hereby certify the fact and nature of the emergency giving rise to the award for a contract to perform the work shown in the bid documents sent by CCRMA staff to three qualified contractors (See Exhibit D).

Certified by:

Pete Sepulveda, Jr., Executive Director



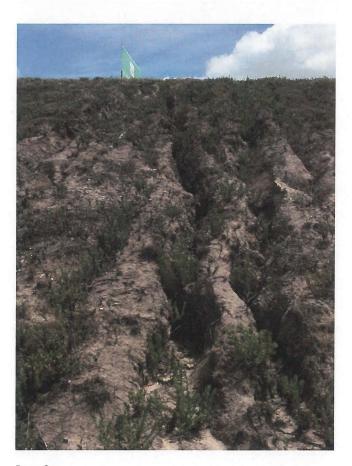
Port Spur – Railroad overpass 2014



Port Spur – Railroad overpass 2016



Port Spur



Port Spur



Direct Connector – October 2015



Direct Connector – October 2015





Direct Connector – March 2016

EXHIBIT B

Port Spur Repairs



EXHIBIT B





Direct Connector Repairs



July 13, 2016

Mr. Pete Sepulveda, Jr.
Executive Director
Cameron County Regional Mobility Authority
3461 Carmen Ave.
Rancho Viejo, Texas 78575

RE: SH 550 Toll Road – Erosion Concerns

Mr. Sepulveda,

In May of 2015 SBI completed an erosion control assessment along the existing SH 550 roadway from Interstate 69E to SH 48. A report documenting the erosion along the embankment was submitted to the Cameron County Regional Mobility Authority (CCRMA) for inclusion into subsequent construction projects. Due to unforeseen delays in the construction projects, the majority (certain critical areas have been repaired) of the erosion along SH 550 has not been repaired/reconstructed. These areas are of concern due to the following reasons:

- Moisture Penetration in Pavement which could result in:
 - o Base Softening
 - o Subgrade Softening
- Slope Stability Issues could result in:
 - o Shear Failure
 - o Edge Deformation

The above mentioned concerns could result in a minor erosion control mediation turning into a major reconstruction if left untreated and exposed to future storms and/or a hurricane. As a result, SBI, as the CCRMA General Engineering Council, recommends that action to repair/reconstruct the ongoing slope erosion issues along SH 550 be taken as soon as possible in an effort to minimize repair costs and to preserve the functionality of the existing facility.

If you have any questions or comments, please feel free to contact me at (956)926-5008 or dgarces@sbinfra.com,

Daniel Garces, P.E.
Project Manager

EXHIBIT D



