

# **CAMINO REAL REGIONAL MOBILITY AUTHORITY BOARD RESOLUTION**

**WHEREAS**, the Camino Real Regional Mobility Authority (CRRMA) has partnered with the Texas Department of Transportation (TxDOT) for the development of the Americas Managed Lanes Project and the State Loop 375 Frontage Road Ramps Project, whereby the CRRMA agreed to provide the environmental and preliminary engineering services for such projects; and

**WHEREAS**, the CRRMA entered into Work Authorization No. 2 with AECOM for the preparation of schematic, environmental document and Plans, Specifications and Estimates for the State Loop 375 Frontage Road Ramps Project (Project), and such Work Authorization was subsequently revised by five separate amendments; and

**WHEREAS**, TxDOT has requested that AECOM, as the engineer of record for the Project, provide certain construction phase services for the Frontage Road Ramps and Widening Project, as TDOT is now in the construction phase of the Project.

**NOW, THEREFORE, BE IT RESOLVED BY THE CAMINO REAL REGIONAL MOBILITY AUTHORITY:**

**THAT** the Executive Director be authorized to execute Amendment No. 6 to Work Authorization No. 2 with AECOM, including any additional documents or materials as may be required, for the provision of construction phase services by AECOM for the State Loop 375 Frontage Road Ramps Project.

**PASSED AND APPROVED THIS 14<sup>TH</sup> DAY OF OCTOBER 2020.**

**CAMINO REAL REGIONAL  
MOBILITY AUTHORITY**

**ATTEST:**

\_\_\_\_\_  
Joyce A. Wilson, Chair

\_\_\_\_\_  
Luis Rosas, Board Secretary

**APPROVED AS TO CONTENT:**

\_\_\_\_\_  
Raymond L. Telles  
Executive Director

**AMENDMENT NO. 6**

**WORK AUTHORIZATION NO. 2  
CONTRACT FOR ENGINEERING SERVICES**

**THIS AMENDMENT NO. 6** is made pursuant to the terms and conditions of Article 5 of the Contract for Engineering Services dated August 18, 2015 (the “Contract”) entered into by and between the CAMINO REAL REGIONAL MOBILITY AUTHORITY (the “CRRMA”) and AECOM (the “Engineer”).

This Amendment No. 6 seeks to amend Work Authorization No. 2 dated September 13, 2017, which was revised by Amendment No. 1 dated August 21, 2018, Amendment No. 2 dated February 25, 2019, Amendment No. 3 dated February 25, 2019, Amendment 4 dated June 27, 2019, and Amendment No. 5 dated November 19, 2019. The Work Authorization and subsequent amendments were executed by and between the parties pursuant to the Contract for the development of the project known as State Loop (SL) 375 Frontage Rd Ramps Project, along SL 375 from Zaragoza POE to North Loop (FM 76).

The terms and conditions of Work Authorization No. 2, as revised, are hereby further revised to: (1) supplement the services requested of the Engineer with the additional construction phase services identified herein as Exhibit B-6; and (2) supplement the fees to be paid to the Engineer through the additional fee schedule attached hereto as Exhibit D-5. Both Exhibit B-6 and Exhibit D-5 are attached hereto and incorporated herein for all purposes. The maximum amount payable to AECOM under this Amendment No. 6 to Work Authorization No. 2 is **\$271,919.19**.

This Amendment No. 6 shall become effective on the date of final execution of the parties hereto. All other terms and conditions of Work Authorization No. 2, as amended, not hereby revised are to remain in full force and effect.

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

**AECOM**

**CAMINO REAL  
REGIONAL MOBILITY AUTHORITY**

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Raymond L. Telles  
Executive Director

Date: \_\_\_\_\_

Date: \_\_\_\_\_

## **EXHIBIT B-6 SERVICES TO BE PROVIDED BY THE ENGINEER**

### **I. PROJECT SUMMARY OF SUPPLEMENTAL SCOPE**

Additional Professional Services will be provided by the Engineer for construction phase services (CPS).

### **II. SERVICES TO BE PROVIDED BY THE ENGINEER**

The Scope of Services to be provided by the Engineer may include, but are not limited to the following key elements:

#### **CONSTRUCTION PHASE SERVICES (Function Code 309)**

The Engineer shall provide Construction Phase Services at the written request of the CRRMA/State's Project Manager. The written request shall include a description of the work requested, a mutually agreed upon time limit, a mutually agreed upon level of effort, a defined deliverable and any special instructions for coordination and submittal. These services shall include, but are not limited to the following:

1. Attend preconstruction meeting
2. Attend partnering meeting
3. Attend field meetings and make visits to site (up to 4 in person with other meetings via WebEX)
4. Assist the CRRMA/State in preparing change orders
5. Review and approval of shop drawings
6. Responding to requests for information (RFIs) (up to 50)
7. Providing minor redesign which will include changes to affected plan sheets
8. Answering general questions and providing clarification
9. Other project related tasks in support of the CRRMA/State during construction

In the event that revisions are requested by the CRRMA/State, and the work is considered additional to that set forth on the original work authorization or scopes of work, the Engineer shall prepare a budget and a schedule for the additional work requested. The Engineer shall not commence work on a task prior to receiving written approval by the CRRMA/State.

#### **A. Project Management and Coordination.**

The Engineer, in association with the CRRMA/State's Project Manager shall be responsible for directing and coordinating all activities associated with the project to comply with CRRMA/State policies and procedures, and to deliver that work on time.

The Engineer shall coordinate all sub-consultant activity to include quality of and consistency of plans and administration of the invoices and monthly progress reports. The Engineer shall coordinate with necessary local entities.

The Engineer shall:

- Prepare monthly project invoices and written progress reports.
- Meet on a scheduled basis with the CRRMA/State to review project progress.
- Prepare/distribute meeting minutes.
- Prepare, distribute, and file both written and electronic correspondence.

- Document phone calls and conference calls as required during the project to coordinate the work for various team members.
- Perform QA/QC reviews of project deliverables.

### **1. Attend Preconstruction Meeting**

The Engineer shall attend preconstruction meeting.

### **2. Attend Partnering Meeting**

The Engineer shall attend partnering meeting (assumed to be same day as preconstruction meeting).

### **3. Attend Construction Coordination Meetings**

The Engineer shall assist the CRRMA/State on an as-needed basis for the duration of the construction phase of this project. As requested by the CRRMA/State's Project Manager, the Engineer shall attend up to four (4) in person and other meetings via WebEX construction coordination meetings as requested by the CRRMA/State.

### **4. Provide Change Order Assistance:**

The Engineer shall assist the CRRMA/State on an as-needed basis for the duration of the construction phase of this project. As requested by the CRRMA/State's Project Manager, the Engineer shall provide assistance to the CRRMA/State in preparing change orders to the contract where warranted by a change in field conditions or a change requested by the CRRMA/State.

### **5. Shop Drawing Review and Approval**

The Engineer shall review and approve shop drawings prepared and submitted by the Contractor or fabricator of materials and work related to the construction of this project. Review of shop drawings for roadway elements which have been designed and sealed by the CRRMA/State are included under this scope of services if requested by the CRRMA/State. Review of roadway elements covered by CRRMA/State Standards is not included under this scope of services.

The shop drawings for review and approval shall include, but not be limited to the following list of items when applicable to the project:

- Barrier Rail – All Types
- Manholes and Inlets – All types
- Traffic Signal Items
- Wall Items
- Bridge Items
- Large Signs
- ITS Items

Distribution of Shop Drawings: The CRRMA/State's Project Manager will forward to the Engineer, for review and approval, the shop drawings submitted by the Contractor or fabricator. The Engineer shall have a maximum of 10 calendar days from receipt of the shop drawings to review, approve, stamp and return the shop drawings to the CRRMA/State's Project Manager. This time may be decreased to a lesser and mutually agreeable time limit if the CRRMA/State feels it is necessary in order to avoid delay of construction activities.

The CRRMA/State uses an electronic submittal procedure for all shop and working drawing submittals and the Engineer shall comply with the procedures for review, stamping, marking, and preparation of

the electronic files as outlined in the CRRMA/State's Guide to Electronic Shop Drawing Submittal which can be obtained at the following web site link:

[ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e\\_submit\\_guide.pdf](ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf)

The Engineer shall, following review, return to the CRRMA/State's Project Manager, the electronic submission with appropriate file name designation and transmission form requirements as found in the CRRMA/State's Guide to Electronic Shop Drawing Submittal. The CRRMA/State's Project Manager shall distribute the returned review documents to the Contractor, fabricator, and CRRMA/State's contacts.

#### **6. Request for Information (RFI)**

The Engineer shall assist the CRRMA/State on an as-needed basis for the duration of the construction phase of this project. As requested by the CRRMA/State's Project Manager, the Engineer shall provide assistance in preparing responses to RFIs (up to 50).

#### **7. Providing Minor Redesign**

The Engineer shall assist the CRRMA/State on an as-needed basis for the duration of the construction phase of this project. As requested by the CRRMA/State's Project Manager, the Engineer shall provide assistance in developing minor redesign which will include changes to affected plan sheets.

#### **8. Answering general questions and providing clarification**

The Engineer shall assist the CRRMA/State on an as-needed basis for the duration of the construction phase of this project. As requested by the CRRMA/State's Project Manager, the Engineer shall provide assistance as follows:

- Provide responses to contractor questions
- Provide clarifications related to the design/plans

#### **9. Other project related tasks as requested by the CRRMA/State**

The Engineer shall assist the CRRMA/State on an as-needed basis for the duration of the construction phase of this project as related miscellaneous project tasks arise.

#### **B. Deliverables**

The Engineer shall provide the following to the CRRMA/State:

1. Reviewed shop drawings with comments (if any) and stamped to indicate acceptance, comments to be addressed (if any), or resubmittal required.
2. Reviewed forming details (erection plans) with comments (if any) and stamped to indicate acceptance, comments to be addressed (if any), or resubmittal required.
3. Responses to RFIs
4. Change order proposals, signed and sealed by a licensed engineer in the State of Texas, as requested by the CRRMA/State.

[END OF EXHIBIT]

AECOM Technical Services Inc.  
 Loop 375 Braided Ramps  
 Construction Phase Services

Company	Fee
AECOM Technical Services Inc.	\$192,184.68
ZWA Surveying	\$16,884.20
PSI	\$26,543.76
QUANTUM	\$10,306.78
FXSA	\$25,999.77
<b>Total</b>	<b>\$271,919.19</b>

CSJ: 2552-03-049/066

<b>AECOM Technical Services Inc. Loop 375 Braided Ramps</b>					
Task	AECOM Technical Services Inc.	ZWA Surveying	PSI	QUANTUM	FXSA
A. Project Management	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
B. Surveying	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
C. Right-Of-Way Mapping	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
D. Geotechnical Investigations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
E. Schematic Design	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
F. Drainage Study	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
G. Stakeholder Coordination	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
H. Plans, Specifications and Estimates (PS&E)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
J. Construction Phase Services (CPS)	\$186,242.93	\$15,234.20	\$26,428.76	\$10,207.78	\$25,666.27
I. Utility Coordination	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Sub Totals</b>	<b>\$186,242.93</b>	<b>\$15,234.20</b>	<b>\$26,428.76</b>	<b>\$10,207.78</b>	<b>\$25,666.27</b>
<b>Direct Expenses</b>	<b>\$5,941.75</b>	<b>\$1,650.00</b>	<b>\$115.00</b>	<b>\$99.00</b>	<b>\$333.50</b>
<b>Totals</b>	<b>\$192,184.68</b>	<b>\$16,884.20</b>	<b>\$26,543.76</b>	<b>\$10,306.78</b>	<b>\$25,999.77</b>
<b>Grand Total</b>	<b>\$271,919.19</b>				
Participation Percentage	70.68%	6.21%	9.76%	3.79%	9.56%
Total DBE Percentage: 29.32%	CSJ: 2552-03-049/066				

To be paid by specified rate

AECOM Technical Services Inc. Loop 375 Braided Ramps											
Task Description	SENIOR PROJECT MANAGER	DESIGN MANAGER	SENIOR BRIDGE ENGINEER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	SENIOR ENGINEERING TECHNICIAN	ADMIN / CLERICAL (ENG)	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>J. Construction Phase Services (Function Code 309)</b>										1465	\$ 186,242.93
<b>A. Project Mangement and Coordination</b>	40	20	20	40		20			40	180	\$ 25,298.20
1. Attend preconstruction meeting	3					3	3			9	\$ 1,169.73
2. Attend partnering meeting (assumed the same day as Preconstruction meeting)	2					2	2			6	\$ 779.82
3. Attend field meetings and make visits to site (up to 4 with other meetings via WebEX)	40		16	40		40	40			176	\$ 23,714.64
4. Assist the CRRMA/State in preparing change orders	8		8	8		8	8		8	48	\$ 5,877.12
5. Review and approval of shop drawings	12	12	40	40	40	40	30	20		234	\$ 29,245.98
6. Responding to requests for information (RFIs) (up to 50)	16	16	16	40	40	40	40	40		248	\$ 30,341.28
7. Providing minor redesign which will include changes to affected plan sheets	12	20	12	40	60	60	40	40		284	\$ 33,896.72
8. Answering general questions and providing clarification	12	12	20	20	20	20	20	20		144	\$ 18,540.28
9. Other project related tasks in support of the CRRMA/State during construction	12	12	12	20	20	20	20	20		136	\$ 17,379.16
										0	\$ -
<b>HOURS SUB-TOTALS</b>	157	92	144	248	180	253	203	140	48	1465	
<b>CONTRACT RATE PER HOUR</b>	\$204.22	\$202.77	\$145.14	\$144.90	\$97.71	\$109.38	\$76.31	\$109.38	\$54.69		
<b>TOTAL LABOR COSTS</b>	\$32,062.54	\$18,654.84	\$20,900.16	\$35,935.20	\$17,587.80	\$27,673.14	\$15,490.93	\$15,313.20	\$2,625.12	\$186,242.93	
<b>% DISTRIBUTION OF STAFF HOURS</b>	10.72%	6.28%	9.83%	16.93%	12.29%	17.27%	13.86%	9.56%	3.28%		
<b>TOTAL PROJECT HOURS</b>	157	92	144	248	180	253	203	140	48	1465	
<b>PROJECT TOTALS</b>	\$32,062.54	\$18,654.84	\$20,900.16	\$35,935.20	\$17,587.80	\$27,673.14	\$15,490.93	\$15,313.20	\$2,625.12	\$186,242.93	\$186,242.93
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	10.72%	6.28%	9.83%	16.93%	12.29%	17.27%	13.86%	9.56%	3.28%		

To be paid by specified rate



AECOM Technical Services Inc. Loop 375 Braided Ramps				
Other Direct Expenses	UNITS		RATE	
Lodging/Hotel (Taxes/fees not included)	8	night	100.00	\$800.00
Meals (overnight stay required)	8	day	46.00	\$368.00
Rental Car (Tax/fees not included)	4	day	65.00	\$260.00
Rental Car Gasoline	24	Gallon	3.75	\$90.00
SUV or ATV Rental	0	day	0.00	\$0.00
Air Travel	8	each	450.00	\$3,600.00
Taxi/Cab fare	0	each	0.00	\$0.00
Standard Postage	0	letter	0.00	\$0.00
Overnight express-letter size	0	each	20.00	\$0.00
Overnight express-oversized box	0	each	35.00	\$0.00
Courier Services	0	each	30.00	\$0.00
8½"X11" B/W Paper Copies	0	each	0.10	\$0.00
11"X17" B/W Paper Copies	2,500	each	0.20	\$500.00
8½"X11" Color Paper Copies	0	each	0.50	\$0.00
11"X17" Color Paper Copies	0	each	1.50	\$0.00
CADD Plotting	40	linear foot	4.50	\$180.00
Digital Ortho Plotting	0	linear foot	0.00	\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	0.00	\$0.00
Notebooks	0	each	0.00	\$0.00
Hazardous Materials Database Search	0	per search	0.00	
Backhoe Rental	0	day	0.00	\$0.00
Boards for Public Meeting	0	each	0.00	\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	0.00	\$0.00
Interpreter	0	hour	0.00	\$0.00
Court Reporter	0	hour	0.00	\$0.00
Newspaper Advertisement	0	each	0.00	\$0.00
<b>Other Direct Expense Total</b>				<b>\$5,941.75</b>

To be paid by specified rate

**ZWA Surveying  
Loop 375 Braided Ramps**

Task Description	SURVEY PROJECT MANAGER	REGISTERED PROFESSIONAL LAND SURVEYOR	SURVEY TECHNICIAN	SURVEY TECHNICIAN - GPS	2-MAN SURVEY CREW (PORTAL TO PORTAL)	3-MAN SURVEY CREW (PORTAL TO PORTAL)	ADMIN / CLERICAL (SURV)	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>J. Construction Phase Services</b>								144	\$ 15,234.20
A. Project Mangement and Coordination	4	8		8	16		20	56	\$ 5,474.20
1. Attend preconstruction meeting								0	\$ -
2. Attend partnering meeting (assumed the same day as Preconstruction meeting)								0	\$ -
3. Attend field meetings and make visits to site (up to 4 with other meetings via WebEX)	4	8						12	\$ 1,600.00
4. Assist the CRRMA/State in preparing change orders								0	\$ -
5. Review and approval of shop drawings								0	\$ -
6. Responding to requests for information (RFIs) (up to 5)	4	4	4	4				16	\$ 1,760.00
7. Providing minor redesign which will include changes to affected plan sheets	4	8	16	16	16			60	\$ 6,400.00
8. Answering general questions and providing clarification								0	\$ -
9. Other project related tasks in support of the CRRMA/State during construction								0	\$ -
								0	\$ -
								0	\$ -
								0	\$ -
<b>HOURS SUB-TOTALS</b>	16	28	20	28	32	0	20	144	
<b>CONTRACT RATE PER HOUR</b>	\$140.00	\$130.00	\$80.00	\$90.00	\$130.00	\$165.00	\$53.71		
<b>TOTAL LABOR COSTS</b>	\$2,240.00	\$3,640.00	\$1,600.00	\$2,520.00	\$4,160.00	\$0.00	\$1,074.20	\$15,234.20	
<b>% DISTRIBUTION OF STAFF HOURS</b>	11.11%	19.44%	13.89%	19.44%	22.22%	0.00%	13.89%		
<b>C. Right-of-Way Mapping</b>								0	\$ -
1. Perform Right-of-Way Survey								0	\$ -
2. Acquire Permission for Right of Entry								0	\$ -
3. Prepare Right of Way Map								0	\$ -
Deliverables								0	\$ -
<b>HOURS SUB-TOTALS</b>	0	0	0	0	0	0	0	0	
<b>CONTRACT RATE PER HOUR</b>	\$140.00	\$130.00	\$80.00	\$90.00	\$130.00	\$165.00	\$53.71		
<b>TOTAL LABOR COSTS</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
<b>% DISTRIBUTION OF STAFF HOURS</b>	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
<b>TOTAL PROJECT HOURS</b>	16	28	20	28	32	0	20	144	
<b>PROJECT TOTALS</b>	\$2,240.00	\$3,640.00	\$1,600.00	\$2,520.00	\$4,160.00	\$0.00	\$1,074.20	\$15,234.20	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	11.11%	19.44%	13.89%	19.44%	22.22%	0.00%	13.89%		

To be paid by specified rate

ZWA Surveying  
LP375 Braided Ramps

Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)	0	night	0.00		\$0.00
Meals (overnight stay required)	0	day	0.00		\$0.00
Rental Car (Tax/fees not included)	0	day	0.00		\$0.00
Mileage	120	mile	0.575		\$69.00
SUV or ATV Rental	0	day	120.00		\$0.00
Air Travel	0	each	350.00		\$0.00
Parking	0	day	15.00		\$0.00
Taxi/Cab fare	0	each	0.00		\$0.00
Standard Postage	0	letter	0.55		\$0.00
Overnight express-letter size	0	each	20.00		\$0.00
Overnight express-oversized box	0	each	30.00		\$0.00
Courier Services	0	each	30.00		\$0.00
8½"X11" B/W Paper Copies		each	0.15		\$0.00
11"X17" B/W Paper Copies	0	each	0.20		\$0.00
8½"X11" Color Paper Copies	0	each	0.45		\$0.00
11"X17" Color Paper Copies	0	each	0.75		\$0.00
CADD Plotting	0	linear foot	5.00		\$0.00
Digital Ortho Plotting	0	linear foot	2.50		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	75.00		\$0.00
Notebooks	0	each	0.00		\$0.00
Hazardous Materials Database Search	0	per search	0.00		\$0.00
Backhoe Rental	0	day	0.00		\$0.00
Boards for Public Meeting	0	each	0.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	2	day	48.00		\$96.00
Interpreter	0	hour	0.00		\$0.00
Court Reporter	0	hour	0.00		\$0.00
Traffic Control Services, Arrow Boards and Attenuator	1	day	1,485.00		\$1,485.00
Traffic Control Services, Arrow Boards and Attenuator		day	1,800.00		\$0.00
Traffic Control Services, Arrow Boards and Attenuator	0	day	2,365.00		\$0.00
Newspaper Advertisement	0	each	0.00		\$0.00
<b>Other Direct Expense Total</b>					<b>\$1,650.00</b>

To be paid by specified rate

**FXSA  
Loop 375 Braided Ramps**

Task Description	SENIOR PROJECT MANAGER	DESIGN ENGINEER	SENIOR ENGINEERING TECHNICIAN	ENGINEERING TECHNICIAN	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>J. Construction Phase Services</b>					182	\$ 25,666.27
<b>A. Project Mangement and Coordination</b>	10	14		14	38	\$ 5,231.72
1. Attend preconstruction meeting	3	3			6	\$ 1,006.83
2. Attend partnering meeting (assumed the same day as Preconstruction meeting)	2	2			4	\$ 671.22
3. Attend field meetings and make visits to site (up to 4 with other meetings via WebEX)	8	12			20	\$ 3,199.28
4. Assist the CRRMA/State in preparing change orders	2	4			6	\$ 928.42
5. Review and approval of shop drawings					0	\$ -
6. Responding to requests for information (RFIs) (up to 20)	12	12	16	16	56	\$ 7,490.04
7. Providing minor redesign which will include changes to affected plan sheets	4	8	8	8	28	\$ 3,588.20
8. Answering general questions and providing clarification	4	4			8	\$ 1,342.44
9. Other project related tasks in support of the CRRMA/State during construction	4	4	4	4	16	\$ 2,208.12
					0	\$ -
					0	\$ -
<b>HOURS SUB-TOTALS</b>	49	63	28	42	182	
<b>CONTRACT RATE PER HOUR</b>	\$207.01	\$128.60	\$119.19	\$97.23		
<b>TOTAL LABOR COSTS</b>	\$10,143.49	\$8,101.80	\$3,337.32	\$4,083.66	\$25,666.27	
<b>% DISTRIBUTION OF STAFF HOURS</b>	26.92%	34.62%	15.38%	23.08%		
<b>TOTAL PROJECT HOURS</b>	49	63	28	42	182	
<b>PROJECT TOTALS</b>	\$10,143.49	\$8,101.80	\$3,337.32	\$4,083.66	\$25,666.27	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	26.92%	34.62%	15.38%	23.08%		

To be paid by specified rate

FXSA  
Loop 375 Braided Ramps

Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)	0	night	0.00		\$0.00
Meals (overnight stay required)	0	day	0.00		\$0.00
Rental Car (Tax/fees not included)	0	day	0.00		\$0.00
Mileage	300	mile	0.575		\$172.50
Air Travel	0	each	400.00		\$0.00
Parking	0	day	15.00		\$0.00
Standard Postage	0	letter	0.45		\$0.00
Overnight express-letter size	0	each	45.00		\$0.00
Overnight express-oversized box	0	each	65.00		\$0.00
Courier Services	0	each	0.00		\$0.00
8½"X11" B/W Paper Copies	0	each	0.10		\$0.00
11"X17" B/W Paper Copies	250	each	0.20		\$50.00
8½"X11" Color Paper Copies	0	each	0.40		\$0.00
11"X17" Color Paper Copies	150	each	0.74		\$111.00
CADD Plotting	0	linear foot	0.00		\$0.00
Digital Ortho Plotting	0	linear foot	0.00		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	0.00		\$0.00
Notebooks	0	each	0.00		\$0.00
Hazardous Materials Database Search	0	per search	0.00		\$0.00
Backhoe Rental	0	day	0.00		\$0.00
Boards for Public Meeting	0	each	0.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	0	day	0.00		\$0.00
Interpreter	0	hour	0.00		\$0.00
Court Reporter	0	hour	0.00		\$0.00
Newspaper Advertisement	0	each	0.00		\$0.00
Designate		Unit	250.00		\$0.00
GPS Receiver	0	hour	14.43		\$0.00
Locate (0-5)	0	each	1,000.00		\$0.00
Locate (5-10)	0	each	1,500.00		\$0.00
Locate (10-15)		each	2,000.00		\$0.00
Traffic Control		day	950.00		\$0.00
<b>Other Direct Expense Total</b>					<b>\$333.50</b>

To be paid by specified rate

**QUANTUM**  
**Loop 375 Braided Ramps**

Task Description	SENIOR PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEERING TECHNICIAN	ENGINEERING TECHNICIAN	ADMIN / CLERICAL (ENG)	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>J. Construction Phase Services</b>								96	\$ 10,207.78
A. Project Mangement and Coordination	12						12	24	\$ 2,604.24
1. Attend preconstruction meeting								0	\$ -
2. Attend partnering meeting (assumed the same day as Preconstruction meeting)								0	\$ -
3. Attend field meetings and make visits to site (up to 2 with other meetings via WebEX)	4		6					10	\$ 1,270.10
4. Assist the CRRMA/State in preparing change orders								0	\$ -
5. Review and approval of shop drawings								0	\$ -
6. Responding to requests for information (RFIs) (up to 10)	6		6		8	8		28	\$ 2,898.20
7. Providing minor redesign which will include changes to affected plan sheets	2		4		6	6		18	\$ 1,721.12
8. Answering general questions and providing clarification	2		2					4	\$ 530.04
9. Other project related tasks in support of the CRRMA/State during construction	2		2		4	4		12	\$ 1,184.08
								0	\$ -
								0	\$ -
								0	\$ -
								0	\$ -
<b>HOURS SUB-TOTALS</b>	28	0	20	0	18	18	12	96	
<b>CONTRACT RATE PER HOUR</b>	\$160.01	\$135.01	\$105.01	\$95.01	\$85.01	\$78.50	\$57.01		
<b>TOTAL LABOR COSTS</b>	\$4,480.28	\$0.00	\$2,100.20	\$0.00	\$1,530.18	\$1,413.00	\$684.12	\$10,207.78	
<b>% DISTRIBUTION OF STAFF HOURS</b>	29.17%	0.00%	20.83%	0.00%	18.75%	18.75%	12.50%		
<b>TOTAL PROJECT HOURS</b>	28	0	20	0	18	18	12	96	
<b>PROJECT TOTALS</b>	\$4,480.28	\$0.00	\$2,100.20	\$0.00	\$1,530.18	\$1,413.00	\$684.12	\$10,207.78	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	29.17%	0.00%	20.83%	0.00%	18.75%	18.75%	12.50%		

To be paid by specified rate

Quantum  
LP375 Braided Ramps

Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)	0	night	0.00		\$0.00
Meals (overnight stay required)	0	day	0.00		\$0.00
Rental Car (Tax/fees not included)	0	day	0.00		\$0.00
Mileage	120	mile	0.575		\$69.00
SUV or ATV Rental	0	day	0.00		\$0.00
Air Travel	0	each	0.00		\$0.00
Parking	0	day	0.00		\$0.00
Taxi/Cab fare	0	each	0.00		\$0.00
Standard Postage	0	letter	0.49		\$0.00
Overnight express-letter size	0	each	25.00		\$0.00
Overnight express-oversized box	0	each	50.00		\$0.00
Courier Services	0	each	0.00		\$0.00
8½"X11" B/W Paper Copies	0	each	0.10		\$0.00
11"X17" B/W Paper Copies	150	each	0.20		\$30.00
8½"X11" Color Paper Copies	0	each	0.20		\$0.00
11"X17" Color Paper Copies	0	each	0.45		\$0.00
CADD Plotting	0	linear foot	1.60		\$0.00
Digital Ortho Plotting	0	linear foot	0.00		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	0.00		\$0.00
Notebooks	0	each	0.00		\$0.00
Hazardous Materials Database Search	0	per search	0.00		\$0.00
Backhoe Rental	0	day	0.00		\$0.00
Boards for Public Meeting (flagging, spray paint, etc.)	0	day	0.00		\$0.00
Interpreter	0	hour	0.00		\$0.00
Court Reporter	0	hour	0.00		\$0.00
Newspaper Advertisement	0	each	0.00		\$0.00
<b>Other Direct Expense Total</b>					<b>\$99.00</b>

To be paid by specified rate

**PSI  
Loop 375 Braided Ramps**

Task Description	SENIOR PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	EIT	ADMIN / CLERICAL (ENG)	TOTAL LABOR HOURS	TOTAL LABOR COST
<b>J. Construction Phase Services</b>						176	
A. Project Mangement and Coordination	12	12	12		12	48	\$ 6,464.16
1. Attend preconstruction meeting	3	3				6	\$ 1,059.12
2. Attend partnering meeting (assumed the same day as Preconstruction meeting)	2	2				4	\$ 706.08
3. Attend field meetings and make visits to site (up to 4 with other meetings via WebEX)	8	8	12			28	\$ 4,394.64
4. Assist the CRRMA/State in preparing change orders						0	\$ -
5. Review and approval of shop drawings	4	6	8			18	\$ 2,775.56
6. Responding to requests for information (RFIs) (up to 10)	6	12	16			34	\$ 5,161.56
7. Providing minor redesign which will include changes to affected plan sheets						0	\$ -
8. Answering general questions and providing clarification	4	8	8			20	\$ 3,092.08
9. Other project related tasks in support of the CRRMA/State during construction	4	6	8			18	\$ 2,775.56
						0	\$ -
						0	\$ -
<b>HOURS SUB-TOTALS</b>	<b>43</b>	<b>57</b>	<b>64</b>	<b>0</b>	<b>12</b>	<b>176</b>	
<b>CONTRACT RATE PER HOUR</b>	<b>\$194.78</b>	<b>\$158.26</b>	<b>\$130.86</b>	<b>\$85.21</b>	<b>\$54.78</b>		
<b>TOTAL LABOR COSTS</b>	<b>\$8,375.54</b>	<b>\$9,020.82</b>	<b>\$8,375.04</b>	<b>\$0.00</b>	<b>\$657.36</b>	<b>\$26,428.76</b>	
<b>% DISTRIBUTION OF STAFF HOURS</b>	<b>24.43%</b>	<b>32.39%</b>	<b>36.36%</b>	<b>0.00%</b>	<b>6.82%</b>		
<b>TOTAL PROJECT HOURS</b>	<b>43</b>	<b>57</b>	<b>64</b>	<b>0</b>	<b>12</b>	<b>176</b>	
<b>PROJECT TOTALS</b>	<b>\$8,375.54</b>	<b>\$9,020.82</b>	<b>\$8,375.04</b>	<b>\$0.00</b>	<b>\$657.36</b>	<b>\$26,428.76</b>	
<b>TOTAL PROJECT % DISTRIBUTION OF STAFF HOURS</b>	<b>24.43%</b>	<b>32.39%</b>	<b>36.36%</b>	<b>0.00%</b>	<b>6.82%</b>		

To be paid by specified rate



PSI  
LP375 Braided Ramps

Other Direct Expenses	UNITS		RATE		
Lodging/Hotel (Taxes/fees not included)	0	night	0.00		\$0.00
Meals (overnight stay required)	0	day	0.00		\$0.00
Rental Car (Tax/fees not included)	0	day	0.00		\$0.00
Mileage	200	mile	0.575		\$115.00
Air Travel	0	each	0.00		\$0.00
Parking	0	day	0.00		\$0.00
Standard Postage	0	letter	0.00		\$0.00
Overnight express-letter size	0	each	0.00		\$0.00
Overnight express-oversized box	0	each	0.00		\$0.00
Courier Services	0	each	25.00		\$0.00
8½"X11" B/W Paper Copies	0	each	0.10		\$0.00
11"X17" B/W Paper Copies	0	each	0.20		\$0.00
8½"X11" Color Paper Copies	0	each	0.40		\$0.00
11"X17" Color Paper Copies	0	each	0.70		\$0.00
CADD Plotting	0	linear foot	0.00		\$0.00
Digital Ortho Plotting	0	linear foot	0.00		\$0.00
Law Enforcement/Uniform Officer	0	hour/officer	0.00		\$0.00
Notebooks	0	each	0.00		\$0.00
Hazardous Materials Database Search	0	per search	0.00		\$0.00
Backhoe Rental	0	day	400.00		\$0.00
Boards for Public Meeting	0	each	0.00		\$0.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)		day	800.00		\$0.00
Interpreter	0	hour	0.00		\$0.00
Court Reporter	0	hour	0.00		\$0.00
Drill Rig Mobilization	0	day	250.00		\$0.00
Drill Crew Mobilization (2-Man Crew)	0	hour	80.00		\$0.00
Auger Soil Boring with no Sampling	0	per foot	12.00		\$0.00
Auger Soil Boring with SPT (<50 feet)	0	per foot	16.00		\$0.00
Auger Soil Boring with TCP (<50 feet) (if needed)	0	per foot	25.00		\$0.00
Auger Soil Boring with SPT (>50 feet)	0	per foot	20.00		\$0.00
Traffic Control	0	day	1,800.00		\$0.00
Moisture Content and Visual Classification (ASTM D 2216)	0	each	14.00		\$0.00
Sieve Analysis (ASTM D 6913)	0	each	65.00		\$0.00
Atterberg Limits (ASTM D 4318)	0	each	65.00		\$0.00
Consolidation (ASTM D 2435)	0	each	650.00		\$0.00
Direct Shear (ASTM D 3080)	0	each	450.00		\$0.00
Moisture Density Relationship (ASTM D 1557)	0	each	200.00		\$0.00
California Bearing Ratio (ASTM D 1883)	0	each	300.00		\$0.00
Concrete/Asphalt Patch	0	each	125.00		\$0.00
Private Utility Locate	0	day	2,000.00		\$0.00
Percolation Test (ASTM D 5126)	0	each	500.00		\$0.00
<b>Other Direct Expense Total</b>					<b>\$115.00</b>