2015 Financial Assurance

10/15/2015

Estimate Form (with pre-plat construction)

Project Information

Lorson Blvd. Bridge over Jimmy Camp Creek Main Channel — Project Name

4/2/2018 — Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price			% Complete	Remaining	
Earthwork*	5,000.00	CY	@	$ $5	=	$ 25,000.00		$ 25,000.00	*
Permanent Seeding*	2.50	AC	@	$ $582	=	$ 1,455.00		$ 1,455.00	*
Mulching*	2.50	AC	@	$ $507	=	$ 1,267.50		$ 1,267.50	*
Permanent Erosion Control Blanket*	4,000.00	SY	@	$ $6	=	$ 24,000.00		$ 24,000.00	*
Temporary Erosion Control Blanket		SY	@	$ $3		$		$ -	
Vehicle Tracking Control	2.00	EA	@	$ $1,625	=	$ 3,250.00		$ 3,250.00	
Safety Fence	100.00	LF	@	$ $3	=	$ 300.00		$ 300.00	
Silt Fence	1,200.00	LF	@	$ $4	=	$ 4,800.00		$ 4,800.00	
Temporary Seeding		AC	@	$ $485	=	$		$ -	
Temporary Mulch		AC	@	$ $507	=	$		$ -	
Erosion Bales		EA	@	$ $21	=	$		$ -	
Erosion Logs	100.00	LF	@	$ $6	=	$ 600.00		$ 600.00	
Rock Ditch Checks	1.00	EA	@	$ $4,000	=	$ 4,000.00		$ 4,000.00	
Inlet Protection		EA	@	$ $153	=	$		$ -	
Sediment Basin	1.00	EA	@	$ $1,625	=	$ 1,625.00		$ 1,625.00	
Concrete Washout Basin	2.00	EA	@	$ $776	=	$ 1,552.00		$ 1,552.00	
			@	$	=	$		$ -	
* specified items subject to defect warranty financial assurance. A minimum of 20% to be retained up to preliminary acceptance process.				**Section 1 Subtotal**	=	$ 67,849.50		$ 67,849.50	

Section 2 - Public Improvements**	Quantity	Units		Price			% Complete	Remaining	
- Roadway Improvements									
Construction Traffic Control	1.00	LS	@	$ 500	=	$ 500.00		$ 500.00	*
Aggregate Base Course	1,800.00	Tons	@	$ $18	=	$ 32,400.00		$ 32,400.00	*
Asphalt Pavement	1,350.00	Tons	@	$ $65	=	$ 87,750.00		$ 87,750.00	*
Raised Median, Paved		SF	@	$ $7	=	$		$ -	*
Electrical Conduit, Size =		LF	@	$ $14	=	$		$ -	*
Traffic Signal, complete intersection		EA	@	$ $250,000	=	$		$ -	*
Regulatory Sign		EA	@	$ $100	=	$		$ -	*
Advisory Sign		EA	@	$ $100	=	$		$ -	*
Guide/Street Name Sign		EA	@	$ $200		$		$ -	*
Epoxy Pavement Marking	140.00	SF	@	$ $12	=	$ 1,680.00		$ 1,680.00	*
Thermoplastic Pavement Marking		SF	@	$ $22	=	$		$ -	*
Barricade - Type F		EA	@	$ $115	=	$		$ -	*
Delineator (Type I)		EA	@	$ $21	=	$		$ -	*
Curb and Gutter, Type C (Ramp)	40.00	LF	@	$ $21	=	$ 840.00		$ 840.00	*
Curb and Gutter, Type A (6" Vertical)	2,000.00	LF	@	$ $16	=	$ 32,000.00		$ 32,000.00	*
Curb and Gutter, Type B (Median)		LF	@	$ $13	=	$		$ -	*
Pedestrian Ramp		SY	@	$ $108	=	$		$ -	*

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Cross Pan			SY	@	$	$53	=	$		$	- *
Curb Chase			EA	@	$	$1,300	=	$		$	- *
Guardrail Type 3 (W-Beam)		280.00	LF	@	$	$18	=	$	5,040.00	$	5,040.00 *
Guardrail Type 7 (Concrete)			LF	@	$	$67	=	$		$	- *
Guardrail End Anchorage		4.00	EA	@	$	$1,978	=	$	7,912.00	$	7,912.00 *
Guardrail Impact Attenuator			EA	@	$	$3,564	=	$		$	- *
Jimmy Camp Creek Bridge (260' long)		1.00	LS	@	$	$2,550,000	=	$	2,550,000.00	$	2,550,000.00 *
- Storm Drain Improvements											
Concrete Box Culvert (M Standard), Size (W x H)			LF	@	$		=	$		$	- *
Reinforced Concrete Pipe (RCP)	24" HERC		LF	@	$	90	=	$		$	- *
18" Reinforced Concrete Pipe			LF	@	$	$69	=	$		$	- *
24" Reinforced Concrete Pipe			LF	@	$	$84	=	$		$	- *
30" Reinforced Concrete Pipe			LF	@	$	$94	=	$		$	- *
36" Reinforced Concrete Pipe			LF	@	$	$124	=	$		$	- *
42" Reinforced Concrete Pipe			LF	@	$	$134	=	$		$	- *
48" Reinforced Concrete Pipe			LF	@	$	$178	=	$		$	- *
54" Reinforced Concrete Pipe			LF	@	$	$182	=	$		$	- *
60" Reinforced Concrete Pipe			LF	@	$	$216	=	$		$	- *
66" Reinforced Concrete Pipe			LF	@	$	$263	=	$		$	- *
72" Reinforced Concrete Pipe			LF	@	$	$283	=	$		$	- *
Corrugated Steel Pipe (CSP)	Size		LF	@	$		=	$		$	- *
18" Corrugated Steel Pipe			LF	@	$	$66	=	$		$	- *
24" Corrugated Steel Pipe			LF	@	$	$96	=	$		$	- *
30" Corrugated Steel Pipe			LF	@	$	$101	=	$		$	- *
36" Corrugated Steel Pipe			LF	@	$	$136	=	$		$	- *
42" Corrugated Steel Pipe			LF	@	$	$147	=	$		$	- *
48" Corrugated Steel Pipe			LF	@	$	$169	=	$		$	- *
54" Corrugated Steel Pipe			LF	@	$	$193	=	$		$	- *
60" Corrugated Steel Pipe			LF	@	$	$227	=	$		$	- *
66" Corrugated Steel Pipe			LF	@	$	$278	=	$		$	- *
72" Corrugated Steel Pipe			LF	@	$	$330	=	$		$	- *
78" Corrugated Steel Pipe			LF	@	$	$381	=	$		$	- *
84" Corrugated Steel Pipe			LF	@	$	$432	=	$		$	- *
Flared End Section (FES) RCP	┼		EA	@	$	800	=	$		$	- *
Flared End Section (FES) CSP	┼		EA	@	$		=	$		$	- *
End Treatment- Headwall			EA	@	$		=	$		$	- *
End Treatment- Wingwall			EA	@	$		=	$		$	- *
End Treatment - Cutoff Wall			EA	@	$		=	$		$	- *
Curb Inlet (Type R) L=5', Depth < 5 feet			EA	@	$	$3,791	=	$		$	- *
Curb Inlet (Type R) L=5', 5'-10' Depth			EA	@	$	$5,044		$		$	- *
Curb Inlet (Type R) L =5' , 10'-15' Depth			EA	@	$	$6,027	=	$		$	- *
Curb Inlet (Type R) L =10', Depth < 5 feet			EA	@	$	$5,528	=	$		$	- *
Curb Inlet (Type R) L =10' , 5'-10' Depth			EA	@	$	$6,694	=	$		$	- *
Curb Inlet (Type R) L =10' , 10'-15' Depth			EA	@	$	$7,500	=	$		$	- *
Curb Inlet (Type R) L =15' , Depth < 5 feet			EA	@	$	$7,923	=	$		$	- *
Curb Inlet (Type R) L =15' , 5'-10' Depth			EA	@	$	$8,000	=	$		$	- *
Curb Inlet (Type R) L =15' , 10'-15' Depth			EA	@	$	$8,800	=	$		$	- *
Curb Inlet (Type R) L =20' , Depth < 5 feet			EA	@	$	$8,000	=	$		$	- *
Curb Inlet (Type R) L =20' , 5'-10' Depth			EA	@	$	$8,830	=	$		$	- *
Curb Inlet (Type R) L =_____', __' - __' Depth			EA	@	$		=	$		$	- *
Curb Inlet (Type R) L =_____', __' - __' Depth			EA	@	$		=	$		$	- *
Grated Inlet (Type C), < 5' deep			EA	@	$	$3,270	=	$		$	- *
Grated Inlet (Type D), < 5' deep			EA	@	$	$3,908	=	$		$	- *
Storm Sewer Manhole, Box Base, Depth < 15 feet			EA	@	$	$8,592	=	$		$	- *
Storm Sewer Manhole, Slab Base, Depth < 15 feet			EA	@	$	$4,575	=	$		$	- *
Geotextile (Erosion Control)			SY	@	$	$5	=	$		$	- *
Rip Rap, d50 Size from 6" to 24"		1,800.00	CY	@	$	$98	=	$	176,400.00	$	176,400.00 *
Rip Rap, Grouted			CY	@	$	$215	=	$		$	- *
Drainage Channel Construction, Size (W x H)			LF	@	$		=	$		$	- *
Channel Lining, Concrete			CY	@	$	$450	=	$		$	- *
Channel Lining, Rip Rap			CY	@	$	$98	=	$		$	- *
Channel Lining, Grass			AC	@	$	$1,287	=	$		$	- *

Channel Lining, Other Stabilization		SY	@	$	$3	=	$		$ - *
Detention Outlet Structure		EA	@	$	20,000	=	$		$ - *
Detention Emergency Spillway		EA	@	$	15,000	=	$		$ - *
Permanent Water Quality Facility (Describe)		EA	@	$	25,000	=	$		$ - *
* specified items subject to defect warranty financial assurance. A minimum of 20% to be retained up to preliminary acceptance process. ┼ For flared end sections, multiply pipe LF cost by 6									176,400.00
					Section 2 Subtotal	=	2,894,522.00 $		2,894,522.00 **

Section 3 - Common Development Improvements (Private or District)***	Quantity	Units		Price			% Complete	Remaining
- Roadway Improvements								
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
Concrete Sidewalk	550.00	SY	@	$ $38	=	$ 20,900.00		$ 20,900.00
			@	$	=	$		$ -
			@	$	=	$		$ -
- Storm Drain Improvements								
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
- Water System Improvements								
Water Main Pipe (PVC), Size 8"		LF	@	$ $94	=	$		$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	@	$ $137	=	$		$ -
Gate Valves, 8"		EA	@	$ $1,852	=	$		$ -
Fire Hydrant Assembly w/ all valves		EA	@	$ $6,430	=	$		$ -
Water Service Line Installation, including tap and valves		EA	@	$ 1,253	=	$		$ -
		EA	@	$	=	$		$ -
- Sanitary Sewer Improvements								
Sewer Main Pipe (PVC), Size 8"		LF	@	$ $94	=	$		$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	@	$ $4,575	=	$		$ -
Sanitary Service Line Installation, complete		EA	@	$ 1,516	=	$		$ -
Sanitary Sewer Lift Station, complete		EA	@	$	=	$		$ -
- Landscaping (If Applicable)								
(List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD)		EA	@	$	=	$		$ -
		EA	@	$	=	$		
		EA	@	$	=	$		$ -
		EA	@	$	=	$		$ -
		EA	@	$	=	$		$ -
***items in this section are not subject to defect warranty financial assurance				**Section 3 Subtotal**	=	$ 20,900.00		20,900.00

SUMMARY OF QUANTITIES									
ITEM	CONTRACT ITEM DESCRIPTION	UNIT	UNIT COST	ABUT 1	PIER 2	ABUT 3	SUPER	TOTAL	TOTAL COST
206	STRUCTURE EXCAVATION	CY	$ 20.00	203	726	451	0	1381	$ 27,615.62
206	FILTER MATERIAL (CLASS A)	CY	$ 110.00	114	30	120		264	$ 28,986.57
206	STRUCTURE BACKFILL	CY	$ 40.00	483	331	483	0	1297	$ 51,863.42
206	MECHANICAL REINFORCEMENT OF SOIL	CY	$ 35.00	439	0	439	0	877	$ 30,709.31
420	GEOTEXTILE (DRAINAGE)	SY	$ 7.17	511	134	540	0	1186	$ 8,497.54
502	PILING (HP 14x89)	LF	$ 120.00	625	0	504	0	1129	$ 135,421.20
503	DRILLED CAISSON (36 INCH)	LF	$ 400.00	0	324	0	0	324	$ 129,600.00
506	RIPRAP (24 INCH)	CY	$ 100.00	682	0	720	0	1402	$ 140,205.79
506	RIPRAP (30 INCH)	CY	$ 130.00	0	348	0	0	348	$ 45,184.03
601	CONCRETE CLASS D (BRIDGE)	CY	$ 900.00	49	65	49	854	1016	$ 914,538.10
602	REINFORCING STEEL (EPOXY COATED)	LB	$ 1.25	6536	245	6536	126506	139823	$ 174,778.91
602	REINFORCING STEEL (BLACK)	LB	$ 1.00	2423	10353	2423	0	15199	$ 15,199.06
606	BRIDGE RAIL (TYPE 7)(SPECIAL)	LF	$ 300.00	0	0	0	600	600	$ 180,000.00
606	END ANCHORAGE TRANSITION (TYPE 3H)	EA	$ 2,000.00	0	0	0	2	2	$ 4,000.00
606	END ANCHORAGE TRANSITION (TYPE 3G)	EA	$ 2,500.00	0	0	0	2	2	$ 5,000.00
606	END ANCHORAGE (FLARED)	EA	$ 3,500.00	0	0	0	4	4	$ 14,000.00
613	4" SCH 80 PVC	LF	$ 40.00	0	0	0	263	263	$ 10,520.00
613	2" SCH 80 PVC	LF	$ 30.00	0	0	0	526	526	$ 15,780.00
613	12.5" CARRIER PIPE ASSEMBLY	LF	$ 50.00	0	0	0	714	714	$ 35,700.00
618	PRESTRESSED CONCRETE I (BT 72)	LF	$ 320.00	0	0	0	1820	1820	$ 582,400.00
								TOTAL BRIDGE ITEMS	$ 2,550,000

In providing opinions of probable construction cost, the Client understands that Loris and Associates has no control over costs of the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinions of probably construction costs provided herein are to be made on the basis of our qualifications and experience. Loris and Associates make no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.

Financial Assurance Totals

As-built drawings - **(FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)**	$	$3,000
(Inc. survey to verify detention pond volumes.)	**Total Construction Financial Assurance**	**$2,986,271.50**
	(Sum of all section subtotals)	
	Total Remaining Construction Financial Assurance	**2,986,271.50**
	(Sum of all section totals less credit for items complete)	
	Total Defect Warranty Financial Assurance	**$589,248.90**

(20% of all items identified as public improvements(*). To be collateralized at time of preliminary acceptance)

Approvals

I hereby certify that this is an accurate and complete estimate of costs for the work as shown on the Approved Construction Drawings associated with the Project.

Engineer — Date 4-2-2018

(P.E. Seal)

COLORADO REGISTERED 37893 PROFESSIONAL ENGINEER

Approved by Owner / Applicant — Date 4/3/18

Approved by El Paso County Engineer / ECM Administrator — Date

Approved
by Elizabeth Nijkamp
El Paso County Planning and Community Development
on behalf of Jennifer Irvine, County Engineer, ECM Administrator
04/12/2018 5:53:16 PM

EL PASO COUNTY COLORADO EST. 1861