

2015 Financial Assurance Estimate Form

8/6/2015

Project Information

Lorson Ranch East

1/23/2018

Project Name

Section 1 - Grading and Erosion Control BMPs	Quantity	Units	Price	% Complete	Remaining
Earthwork-		CY @	\$ 5		\$ - *
Permanent Seeding*		AC @	\$ 582		\$ - *
Mulching*		AC @	\$ 507		\$ - *
Permanent Erosion Control Blanket*		SY @	\$ 6		\$ - *
Temporary Erosion Control Blanket		SY @	\$ 3		\$ -
Vehicle Tracking Control		EA @	\$ 1,625		\$ -
Safety Fence		LF @	\$ 3		\$ -
Silt Fence		LF @	\$ 4		\$ -
Temporary Seeding		AC @	\$ 485		\$ -
Temporary Mulch		AC @	\$ 507		\$ -
Erosion Bales		EA @	\$ 21		\$ -
Erosion Logs		LF @	\$ 6		\$ -
Rock Ditch Checks		EA @	\$		\$ -
Inlet Protection		EA @	\$ 153		\$ -
Sediment Basin		EA @	\$ 1,625		\$ -
Concrete Washout Basin		EA @	\$ 776		\$ -
Stabilized stockpile and staging area		EA @	\$ 1,000		\$ -
* specified items subject to defect warranty financial assurance. A minimum of 20% to be retained up to preliminary acceptance process.					
Section 1 Subtotal					\$ -

Section 2 - Public Improvements**	Quantity	Units	Price	% Complete	Remaining
- Roadway Improvements					
Construction Traffic Control		LS @	\$		\$ - *
Aggregate Base Course		Tons @	\$ 18		\$ - *
Asphalt Pavement		Tons @	\$ 65		\$ - *
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 @	\$ 50		\$ - *
Epoxy Pavement Marking		SF @	\$ 12		\$ - *
Thermoplastic Pavement Marking		SF @	\$ 22		\$ - *
Barricade - Type 3		EA @	\$ 115		\$ - *
Delineator (Type I)		EA @	\$ 21		\$ - *
Curb and Gutter, Type C (Ramp)		LF @	\$ 21		\$ - *
Curb and Gutter, Type A (6" Vertical)		LF @	\$ 16		\$ - *
Curb and Gutter, Type B (Median)		LF @	\$ 13		\$ - *
Pedestrian Ramp		SY @	\$ 108		\$ - *
Concrete Sidewalk		SY @	\$ 38		\$ - *

Cross Pan		SY	@	\$	\$53	=	\$		\$	-	*
Curb Chase		EA	@	\$	\$1,300	=	\$		\$	-	*
Guardrail Type 3 (W-Beam)		LF	@	\$	\$18	=	\$		\$	-	*
Guardrail Type 7 (Concrete)		LF	@	\$	\$67	=	\$		\$	-	*
Guardrail End Anchorage		EA	@	\$	\$1,978	=	\$		\$	-	*
Guardrail Impact Attenuator		EA	@	\$	\$3,564	=	\$		\$	-	*
48-foot clear span precast arch bridge inclusive of mobilization, precast bridge pieces, wingwalls, headwalls, guard rails, hand rails, structure excavation and backfill, select backfill, erosion control BMP's and revegetation. (See attachment A)	1.00	LF	@	\$	\$1,439,998	=	\$	1,439,998.00	\$	1,439,998.00	*
- Storm Drain Improvements											
Reinforced Concrete Pipe (RCP)	Size	LF	@	\$		=	\$		\$	-	*
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	=	\$		\$	-	*
43"x68"Horiz. Ell. Reinforced Concrete Pipe		LF	@	\$	\$190	=	\$		\$	-	*
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 24"		EA	@	\$	\$900	=	\$		\$	-	*
Flared End Section (FES) RCP 30"		EA	@	\$	\$1,000	=	\$		\$	-	*
Flared End Section (FES) RCP 42"		EA	@	\$	\$1,200	=	\$		\$	-	*
Flared End Section (FES) 54-INCH		EA	@	\$	\$1,500	=	\$		\$	-	*
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 =25' , <5' Depth		EA	@	\$	\$9,000	=	\$		\$	-	*
Curb Inlet (Type R) L =25' , 5' - 10' Depth		EA	@	\$	\$10,000	=	\$		\$	-	*
Curb Inlet (Type R Modified) L =25' , 5' - 10' Depth		EA	@	\$	\$13,500	=	\$		\$	-	*
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	=	\$		\$	-	*



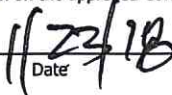
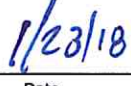
Rip Rap, d50 Size from 6" to 24"		CY	@	\$	\$98	=	\$		\$	-	*
Rip Rap, Grouted		CY	@	\$	\$215	=	\$		\$	-	*
Drainage Channel Construction, Size (W x H)		LF	@	\$		=	\$		\$	-	*
Channel Lining, Concrete (Trickle Channel)		CY	@	\$	\$450	=	\$		\$	-	*
Channel Lining, Rip Rap		CY	@	\$	\$98	=	\$		\$	-	*
Channel Lining, Grass		AC	@	\$	\$1,287	=	\$		\$	-	*
Concrete Cutoff Wall (30" RCP FES)		EA	@	\$	\$500	=	\$		\$	-	*
Detention Outlet Structure		EA	@	\$	\$12,000	=	\$		\$	-	*
Detention Emergency Spillway		EA	@	\$	\$18,300	=	\$		\$	-	*
Presedimentation Forebay		EA	@	\$	\$7,000		\$		\$	-	
Gravel Maintenance Access Trail		SY	@	\$	\$20		\$		\$	-	
Type II Bedding		CY	@	\$	\$35		\$		\$	-	
Detention Basin Seeding and Mulch		AC	@	\$	\$520		\$		\$	-	
Permanent Water Quality Facility (Describe)		EA	@	\$		=	\$		\$	-	*
		EA		\$		=	\$		\$	-	
<p>* 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</p>											
Section 2 Subtotal									\$	1,439,998.00	
											\$ 1,439,998.00 **

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		@	\$ 38	=	\$	\$ -
		@	\$	=	\$	\$ -
		@	\$	=	\$	\$ -
- Storm Drain Improvements						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)		@	\$	=	\$	\$ -
		@	\$	=	\$	\$ -
		@	\$	=	\$	\$ -
efjcc drainageway stabilization and grade inclusive of mobilization, clearing and grubbing, earthwork, erosion control BMP's, soil riprap, concrete cut-off walls, grouted sloping drops and revegetation. (See Attachment A)	1.00	@	\$ 861,691	=	\$ 861,691.00	\$ 861,691.00
		@	\$	=	\$	\$ -
		@	\$	=	\$	\$ -
- Water System Improvements						
Water Main Pipe (PVC), Size 6"		LF @	\$ 94	=	\$	\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF @	\$ 137	=	\$	\$ -
Water Main Pipe (PVC), Size 12"		LF @	\$ 122	=	\$	\$ -
Gate Valves, 6"		EA @	\$ 1,852	=	\$	\$ -
Gate Valves, 12"		EA @	\$ 2,400	=	\$	\$ -
Fire Hydrant Assembly w/ all valves		EA @	\$ 6,430	=	\$	\$ -
Water Service Line Installation, including tap and valves		EA @	\$ 1,253	=	\$	\$ -
Fire Cistern Installation, complete		EA @	\$	=	\$	\$ -
- Sanitary Sewer Improvements						
Sewer Main Pipe (PVC), Size 8"		LF @	\$ 94	=	\$	\$ -
Sewer Main Pipe (PVC), Size 12"		LF @	\$ 165	=	\$	\$ -
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				=	\$ 861,691.00	861,691.00

Financial Assurance Totals		
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)	\$	\$4,000
(Inc. survey to verify detention pond volumes.)	Total Construction Financial Assurance	\$2,305,689.00
(Sum of all section subtotals)		
Total Remaining Construction Financial Assurance		2,305,689.00
(Sum of all section totals less credit for items complete)		
Total Defect Warranty Financial Assurance		\$287,999.60
(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	  (P.E. Seal)	 Date
Approved by Owner / Applicant		 Date
Approved by El Paso County Engineer / ECM Administrator		Date

ATTACHMENT A TO FINANCIAL ASSURANCES FORM
ENGINEER'S QUANTITY ESTIMATE - FINAL DESIGN
Fontaine Boulevard over East Fork Jimmy Camp Creek

PCD CDR-16-009

23-Jan-18

	UNIT COST	UNIT	QUANTITY	Total
Bridge and Roadway				
Mobilization	\$ 58,955.00	ls	1	\$ 58,955
Contech O-848 Precast bridge sections	\$ 23,413.00	ea	21	\$ 491,673
Contech O-848 Precast headwalls	\$ 12,500.00	ea	2	\$ 25,000
Structural concrete and steel reinforcing	\$ 559.00	cy	585	\$ 327,015
HP 14 x 73 piles	\$ 69.50	lf	2,460	\$ 170,970
Wingwall and headwall handrails	\$ 130.00	lf	260	\$ 33,800
Select backfill over precast bridge	\$ 35.00	cy	3,500	\$ 122,500
Structure excavation	\$ 8.75	cy	4,100	\$ 35,875
Structure backfill, CDoT Class 1	\$ 32.00	cy	4,800	\$ 153,600
Type 3 guardrail	\$ 43.00	lf	270	\$ 11,610
CDoT std end anchorage	\$ 1,500.00	ea	2	\$ 3,000
CDoT std flared end anchorage, 37'-6"	\$ 3,000.00	ea	2	\$ 6,000
Subtotal bridge and roadway				\$ 1,439,998
Drainageway				
Mobilization	\$ 35,525.00	ls	1	\$ 35,525
Low flow channel section A	\$ 13.20	lf	1,145	\$ 15,114
Low flow channel section B	\$ 67.00	lf	848	\$ 56,816
Grouted 24-inch diameter boulders	\$ 260.00	cy	621	\$ 161,460
Grouted 36-inch diameter boulders	\$ 306.00	cy	92	\$ 28,152
Grouted Type M riprap	\$ 150.00	cy	177	\$ 26,550
Type L soil riprap 9-inch D50 and topsoil	\$ 47.50	cy	2,370	\$ 112,575
Type M soil riprap 12-inch D50 and topsoil	\$ 47.10	cy	4,616	\$ 217,414
Excavation cut to fill	\$ 8.30	cy	6,000.0	\$ 49,800
Excavation- cut to spoil on site	\$ 6.00	ac	19,000.0	\$ 114,000
Gravel maintenance trail	\$ 25.00	cy	770.0	\$ 19,250
Pavestone access ramp	\$ 6.00	sf	1,600.0	\$ 9,600
Seeding and mulch	\$ 1,050.00	ac	9.7	\$ 10,185
Stabilized staging area	\$ 3,000.00	ea	1.0	\$ 3,000
Concrete washout	\$ 750.00	ea	1.0	\$ 750
Vehicle tracking	\$ 1,500.00	ea	1.0	\$ 1,500
Sub-total drainageway				\$ 861,691
Total Project				\$ 2,301,689