8/6/2015

2015 Financial Assurance

Estimate Form

Project Information		
Lorson Ranch East	1/23/2018	
Project Name		

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price		% Complete	Remaini	ing
Earthwork-		CY	@	\$ \$5	=	\$	\$	- Fg
Permanent Seeding*		AC	@	\$ \$582	=	\$	\$	-
Mulching*		AC	@	\$ \$507	=	\$ _	\$	•
Permanent Erosion Control Blanket*		SY	@	\$ \$6	=	\$	\$	2
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	=	\$	\$	5
Rock Ditch Checks		EA	@	\$	=	\$	\$	ō
Inlet Protection		EA	@	\$ \$153	=	\$	\$	7
Sediment Basin		EA	@	\$ \$1,625	=	\$	\$	•
Concrete Washout Basin		EA	@	\$ \$776	=	\$	\$	2
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 Subtota	1 =	\$	\$	

Section 2 - Public Improvements**	Quantity	Units		Price		% Complete	R	emaining
- Roadway Improvements								
Construction Traffic Control		LS	@	\$ _	=	\$	\$	
Aggregate Base Course		Tons	@	\$ \$18	=	\$	\$	2
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	=	\$	\$ 2 = 3
Guardrail Type 3 (W-Beam)		LF	@	\$ \$18	-	s	\$ 82
Guardrail Type 7 (Concrete)		LF	@	\$ \$67	-	\$	\$ S(-)
		EA	@	\$ \$1,978	=	\$	\$ (*)
Guardrail End Anchorage		EA	@	\$ \$3,564	=	\$	\$ 11 8 1
Guardrail Impact Attenuator 48-foot clears span precast arch bridge inclusive of mobilization	1.00	LF	@	\$ \$1,439,998	=	\$ 1,439,998.00	\$ 1,439,998.00
precast bridge pieces, wingwalls, headwalls, guard rails, hand ra structure excavation and backfill, sellect backfill, erosion contro BMP's and revegetation. (See attachment A)	ills,	LF	<u> </u>	\$ \$1,439,990		\$ 1,100,700.000	
- Storm Drain Improvements					4		
Reinforced Concrete Pipe (RCP) Size		LF	@	\$	=	\$	\$
18" Reinforced Concrete Pipe		LF	@	\$ \$69	=	\$	\$ 2
24" Reinforced Concrete Pipe		LF	@	\$ \$84	=	\$	\$ -
30" Reinforced Concrete Pipe		LF	@	\$ \$94	=	\$	\$
86" Reinforced Concrete Pipe		LF	@	\$ \$124	=	\$	\$
12" Reinforced Concrete Pipe		LF	@	\$ \$134	=	\$	\$ *
18" Reinforced Concrete Pipe		LF	@	\$ \$178	=	\$	\$ -
54" Reinforced Concrete Pipe		LF	@	\$ \$182	=	\$	\$
50" Reinforced Concrete Pipe		LF	@	\$ \$216	=	\$	\$
66" Reinforced Concrete Pipe		LF	@	\$ \$263	=	\$	\$
72" Reinforced Concrete Pipe		LF	@	\$ \$283	=	\$	\$ 5
3"x68"Horiz. Ell. Reinforced Concrete Pipe		LF	@	\$ \$190	=	s	\$
Corrugated Steel Pipe (CSP) Size		LF	@	\$	=	\$	\$ <u> </u>
18" Corrugated Steel Pipe		LF	@	\$ \$66	1=	S	\$ _
		LF	@	\$ \$96	=	s	\$ ·
24" Corrugated Steel Pipe		LF	@	\$ \$101	=	s	\$ 2
80" Corrugated Steel Pipe		LF	@	\$ \$136	=	\$	\$ -
6" Corrugated Steel Pipe			-		1=		\$ -
2" Corrugated Steel Pipe		LF_	@	\$ \$147	-		\$
18" 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	=	\$	\$ 320
Flared End Section (FES) 54-INCH		EA	@	\$ \$1,500	=	\$	\$ (=)
End Treatment- Headwall		EA	@	\$	=	\$	\$ (-)
End Treatment- Wingwall		EA	@	\$	=	\$	\$ 200
End Treatment - Cutoff Wall		EA	@	\$	=	\$	\$:=3
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	=		\$ 3
Curb Inlet (Type R) L =10', 5'-10' Depth		EA	@	\$ \$6,694	=		\$
Curb Inlet (Type R) L =10', 10'-15' Depth		EA	@	\$ \$7,500	=		\$ 720
Curb Inlet (Type R) L =15', Depth < 5 feet		EA	@	\$ \$7,923	_		\$ 727
		EA	@	\$ \$8,000	' <u>-</u>		\$:=:
Curb Inlet (Type R) L =15' , 5'-10' Depth		EA	@	\$ \$8,800	=		\$:=:
Curb Inlet (Type R) L =15' , 10'-15' Depth		-	@		-		\$:-:
Curb Inlet (Type R) L =20', Depth < 5 feet	-	EA	@	\$ \$8,000 \$ \$8,830	=		\$
Curb Inlet (Type R) L =20' , 5'-10' Depth		EA			-	· · · · · · · · · · · · · · · · · · ·	\$
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 fee		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 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		\$		=	\$	\$	
* 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			Sect	tion 2 Subtota	=	1,439,998.00 \$	1,43	39,998.00 **

Section 3 - Common Development Improvements (Private or District)***	Quantity	Units		Price			% Complete	K	emaining
- Roadway Improvements									
Include any applicable items from above Public			@	\$	=	\$		\$	
mprovements list, that are to be private and NOT			@	\$ _	=	\$		\$	
naintained by El Paso County)			@	\$ _	=	\$		\$	(*)
Concrete Sidewalk			@	\$ \$38	=	\$		\$	(*)
			@	\$	=	\$		\$	
	_		@	\$	=	\$		\$	15
- Storm Drain Improvements									
Include any applicable items from above Public			@	\$ 	=	\$		\$	
mprovements list, that are to be private and NOT			@	\$ 	=	\$		\$	
naintained by El Paso County)			@	\$	=	\$		\$	72
fjcc drainageway stabilization and grade inclusive of	1.00		@	\$ 861,691	=	\$ 861,691.00		\$	861,691.00
nobiliztation, clearing and grubbing, earthwork, erosion control BMP's, soil riprap, concrete cut-off walls, grouted			@	\$	=	\$		\$	12
loping drops and revegetation. (See Attachment A)			@	\$ 	=	\$		\$	X=
- Water System Improvements									
Vater Main Pipe (PVC), Size 6"		LF	@	\$ \$94	=	\$		\$	
Vater Main Pipe (Ductile Iron), Size 8"		LF	@	\$ \$137	=	\$		\$	-
Vater Main Pipe (PVC), Size 12"		LF	@	\$ \$122	=	\$		\$	
Sate Valves, 6"		EA	@	\$ \$1,852	=	\$		\$	•
Gate Valves, 12"		EA	@	\$ \$2,400	=	\$		\$	
Fire Hydrant Assembly w/ all valves		EA	@	\$ \$6,430	=	\$		\$	1
Nater Service Line Installation, including tap and valves	<u> </u>	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		EA	@	\$	=	\$		\$	
PUD)		EA	@	\$	=	\$			
		EA	@	\$	=	\$		\$	
		EA	@	\$	=	\$		\$	-
		EA	@	\$	=	\$		\$	-
seeks and the seeks are not at the seeks and seeks						11111			
***items in this section are not subject to defect warranty financial assurance									861,691.0

Financial Assurance Totals			
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED I	MPROVEMENTS)	\$	\$4,000
(Inc. survey to verify detention pond volumes.)	Total C	onstruction Financial Assurance	\$2,305,689.00
		(Sum of all section subtotals)	
	Total Remaining C	onstruction Financial Assurance	2,305,689.00
	(Sum of all se	ection totals less credit for items complete)	
	Total Defe	ct Warranty Financial Assurance	\$287,999.60
(20% of all items identified as put		eralized at time of preliminary acceptance)	
-			
Approvals I hereby certify that this is an accurate and complete estimate of costs for the	e work as shown on the approved	Construction Drawings associated with the Pr	oject.
Engineer (P.E. Seal)	(Date 7		
alla	1/23/18	,	
Approved by Owner / Applicant	Date	_	
Appro	State of the state		
Approved by El Paso Couny Engineer / ECM Administrator Date: 02/06/20	rvine, County Engineer 018		

El Paso County Department of Public Works

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	r cost u	NIT	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	су	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	су	3,500	\$	122,500	
Structure excavation	\$	8.75	су	4,100	\$	35,875	
Structure backfill, CDoT Class 1	\$	32.00	су	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						\$	1,439,99
Drainageway							
Mobilization	\$ 35	,525.00	ls	1	\$	35,525	
ow flow channel section A	\$	13.20	lf	1,145	\$	15,114	
ow flow channel section B	\$	67.00	lf	848	\$	56,816	
Grouted 24-inch diameter boulders	\$	260.00	су	621	\$	161,460	
Grouted 36-inch diameter boulders	\$	306.00	су	92	\$	28,152	
Grouted Type M riprap	\$	150.00	су	177	\$	26,550	
Type L soil riprap 9-inch D50 and topsoil	\$	47.50	су	2,370	\$	112,575	
Type M soil riprap 12-inch D50 and topsoil	\$	47.10	су	4,616	\$	217,414	
Excavtion cut to fill	\$	8.30	су	6,000.0	\$	49,800	
Excavation- cut to spoil on site	\$	6.00 a	ac	19,000.0	\$	114,000	
Gravel maintenance trail	\$	25.00	су	770.0	\$	19,250	
Pavestone access ramp	\$	6.00	sf	1,600.0	\$	9,600	
Seeding and mulch	\$ 1	,050.00 a	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						\$	861,69
					4:	2 201 600	

Total Project \$ 2,301,689