

2015 Financial Assurance Estimate Form

(Basic form)

3/17/2015

Project Information

Hannah Ridge Filing No. 4

12/18/17

Project Name

Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price		
Earthwork*	146,100.00	CY	@	\$5	=	\$ 730,500.00 *
Permanent Seeding*	10.12	AC	@	\$582	=	\$ 5,889.84 *
Mulching*	10.12	AC	@	\$507	=	\$ 5,130.84 *
Permanent Erosion Control Blanket*		SY	@	\$6	=	\$ *
Temporary Erosion Control Blanket		SY	@	\$3	=	\$
Vehicle Tracking Control	2.00	EA	@	\$1,625	=	\$ 3,250.00
Safety Fence		LF	@	\$3	=	\$
Silt Fence	130.00	LF	@	\$4	=	\$ 520.00
Temporary Seeding	10.12	AC	@	\$485	=	\$ 4,908.20
Temporary Mulch	0.10	AC	@	\$507	=	\$ 50.70
Erosion Bales	20.00	EA	@	\$21	=	\$ 420.00
Erosion Logs		LF	@	\$6	=	\$
Rock Ditch Checks		EA	@	\$	=	\$
Inlet Protection	2.00	EA	@	\$153	=	\$ 306.00
Sediment Basin	1.00	EA	@	\$1,625	=	\$ 1,625.00
Concrete Washout Basin	1.00	EA	@	\$776	=	\$ 776.00
			@	\$	=	\$
Specified items subject to defect warranty financial assurance						
				Section 1 Subtotal	=	\$ 753,376.58

Section 2 - Public Improvements**	Quantity	Units		Price		
- Roadway Improvements						
Construction Traffic Control		LS	@	\$	=	\$
Aggregate Base Course (8" thick)	3,382.00	Tons	@	\$18	=	\$ 60,876.00
Asphalt Pavement (3" thick)	1,691.00	Tons	@	\$65	=	\$ 109,915.00
Raised Median, Paved	149.00	SF	@	\$7	=	\$ 1,043.00
Electrical Conduit, Size =		LF	@	\$14	=	\$
Traffic Signal, complete intersection		EA	@	\$250,000	=	\$
Regulatory Sign	15.00	EA	@	\$100	=	\$ 1,500.00
Advisory Sign	2.00	EA	@	\$100	=	\$ 200.00
Guide/Street Name Sign	5.00	EA	@	\$75	=	\$ 375.00
Epoxy Pavement Marking	680.00	SF	@	\$12	=	\$ 8,160.00
Thermoplastic Pavement Marking	105.00	SF	@	\$22	=	\$ 2,310.00
Barricade - Type 3	3.00	EA	@	\$115	=	\$ 345.00
Delineator (Type I)	2.00	EA	@	\$21	=	\$ 42.00
Curb and Gutter, Type C (Ramp)	3,211.00	LF	@	\$21	=	\$ 67,431.00
Curb and Gutter, Type A (6" Vertical)	2,254.00	LF	@	\$16	=	\$ 36,064.00
Curb and Gutter, Type B (Median)	443.00	LF	@	\$13	=	\$ 5,759.00
Pedestrian Ramp	147.00	SY	@	\$108	=	\$ 15,876.00

Cross Pan	180.00	SY	@	\$	\$53	=	\$	9,540.00
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	=	\$	
Sound Barrier Fence		LF	@	\$	\$100	=	\$	
- Storm Drain Improvements								
Concrete Box Culvert (M Standard), Size (W x H)		LF	@	\$		=	\$	
Reinforced Concrete Pipe (RCP) Size		LF	@	\$		=	\$	
18" Reinforced Concrete Pipe	79.00	LF	@	\$	\$69	=	\$	5,451.00
24" Reinforced Concrete Pipe	24.00	LF	@	\$	\$84	=	\$	2,016.00
30" Reinforced Concrete Pipe	87.00	LF	@	\$	\$94	=	\$	8,178.00
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	=	\$	
High Density Polyethylene (HDPE) Pipe Size		LF	@	\$		=	\$	
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	@	\$		=	\$	
Flared End Section (FES) HDPE †		EA	@	\$		=	\$	
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	1.00	EA	@	\$	\$5,528	=	\$	5,528.00
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	1.00	EA	@	\$	\$7,923	=	\$	7,923.00
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	=	\$	

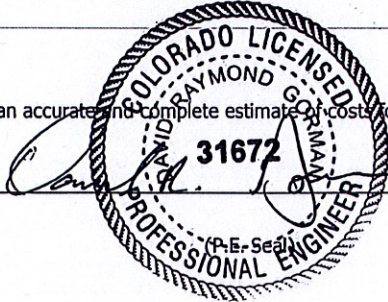
Curb Inlet (Type R) L =20' , 5'-10' Depth		EA	@	\$	\$8,830	=	\$
Curb Inlet (Type R) L = ____', ____' - ____' Depth		EA	@	\$		=	\$
Curb Inlet (Type R) L = ____', ____' - ____' Depth		EA	@	\$		=	\$
Grated Inlet (Type C), < 5' deep		EA	@	\$	\$3,270	=	\$
Grated Inlet (Type D), < 5' deep		EA	@	\$	\$3,908	=	\$
Storm Sewer Manhole, Box Base, Depth < 15 feet	2.00	EA	@	\$	\$8,592	=	\$ 17,184.00
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		CY	@	\$	\$450	=	\$
Channel Lining, Rip Rap		CY	@	\$	\$98	=	\$
Channel Lining, Grass		AC	@	\$	\$1,287	=	\$
Channel Lining, Other Stabilization		SY	@	\$	\$3	=	\$
Detention Outlet Structure		EA	@	\$		=	\$
Detention Emergency Spillway		EA	@	\$		=	\$
Permanent Water Quality Facility (Describe)		EA	@	\$		=	\$
**all items this section subject to defect warranty financial assurance. + For flared end sections, multiply pipe LF cost by 6							
					Section 2 Subtotal	=	\$ 365,716.00 **

Section 3 - Common Development Improvements (Private or District)***	Quantity	Units		Price		
- 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 (5" thick)	2,736.00	SY	@	\$ 58	=	\$ 158,688.00
			@	\$	=	\$
			@	\$	=	\$
- Storm Drain Improvements						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
Permanent Water Quality Facility (Sand Filter F)	1.00		@	\$ 14,000	=	\$ 14,000.00
18" Reinforced Concrete Pipe (from SF)	70.00		@	\$ 69	=	\$ 4,830.00
			@	\$	=	\$
- Water System Improvements						
Water Main Pipe (PVC), Size 8"	1,367.00	LF	@	\$ 94	=	\$ 128,498.00
Water Main Pipe (Ductile Iron), Size 8"		LF	@	\$ 137	=	\$
Gate Valves, 8"	12.00	EA	@	\$ 1,852	=	\$ 22,224.00
Water Main Pipe (Ductile Iron), Size 12"	1,497.00	LF	@	\$ 146	=	\$ 218,562.00
Gate Valves, 12"	13.00	EA	@	\$ 2,450	=	\$ 31,850.00
Fire Hydrant Assembly w/ all valves	5.00	EA	@	\$ 6,430	=	\$ 32,150.00
Water Service Line Installation, inc. tap & valves	57.00	EA	@	\$ 1,253	=	\$ 71,421.00
Fire Cistern Installation, complete		EA	@	\$	=	\$
- Sanitary Sewer Improvements						
Sewer Main Pipe (PVC), Size 8"	2,032.00	LF	@	\$ 94	=	\$ 191,008.00
Sanitary Sewer Manhole, Depth < 15 feet	8.00	EA	@	\$ 4,575	=	\$ 36,600.00
Sanitary Service Line Installation, complete	58.00	EA	@	\$ 1,516	=	\$ 87,928.00
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	@	\$	=	\$
Gravel Trails	202.00	SY	@	\$ 10	=	\$ 2,020.00
		EA	@	\$	=	\$
		EA	@	\$	=	\$
***items in this section are not subject to defect warranty financial assurance						
				Section 3 Subtotal	=	\$ 999,779.00

Financial Assurance Totals		
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)		\$ 2,000.00
(Inc. survey to verify detention pond volumes.)	Construction Financial Assurance Total	= \$ 2,120,871.58
	(Sum of all Section Totals)	
	Public Improvements Total* **	\$ 1,107,236.68
	Defect Warranty Financial Assurance Total	= \$ 221,447.34
	(20% of Section 2 Subtotal and 20% of identified Grading and Erosion BMP items)	

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

12/19/17

Date

Jim Boulton

12-18-2017

Approved by Owner / Applicant

Date

Approved by El Paso County Engineer / ECM Administrator

Date