

2017 Financial Assurance Estimate Form

(Basic form)

CDR-18-009

Project Information	
Meadowbrook Dirt Borrow Site CDR 18-009	11/2/2018
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units	Price		
Earthwork*	36,446.00	CY @	\$ 5	=	\$ 182,230.00 *
Permanent Seeding*		AC @	\$ 582	=	\$ *
Mulching*		AC @	\$ 507	=	\$ *
Permanent Erosion Control Blanket *		SY @	\$ 6	=	\$ *
Temporary Erosion Control Blanket		SY @	\$ 3	=	\$
Vehicle Tracking Control	1.00	EA @	\$ 1,625	=	\$ 1,625.00
Safety Fence		LF @	\$ 3	=	\$
Silt Fence		LF @	\$ 4	=	\$
Temporary Seeding	30.00	AC @	\$ 485	=	\$ 14,550.00
Temporary Mulch	30.00	AC @	\$ 507	=	\$ 15,210.00
Erosion Bales	5.00	EA @	\$ 21	=	\$ 105.00
Erosion Logs		LF @	\$ 6	=	\$
Rock Ditch Checks		EA @	\$ 98	=	\$
Inlet Protection		EA @	\$ 153	=	\$
Sediment Basin	2.00	EA @	\$ 1,625	=	\$ 3,250.00
Concrete Washout Basin		EA @	\$ 776	=	\$
		@	\$	=	\$
pecified items subject to defect warranty financial assurance					
				Section 1 Subtotal	\$ 216,970.00

Section 2 - Public Improvements**	Quantity	Units	Price		
- Roadway Improvements					
Construction Traffic Control		LS @	\$ 25,000	=	\$
Aggregate Base Course - 8"		Tons @	\$ 18	=	\$
Asphalt Pavement - 5"		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 @	\$ 200	=	\$
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	=	\$

Cross Pan		SY	@	\$	\$53	=	\$
Sidewalks		LF	@	\$	\$23	=	\$
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		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	@	\$	1,800	=	\$
Flared End Section (FES) CSP	†	EA	@	\$		=	\$
End Treatment- Headwall		EA	@	\$	5,000	=	\$
End Treatment- Wingwall		EA	@	\$	9,000	=	\$
End Treatment - Cutoff Wall		EA	@	\$	500	=	\$
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) Modified L =15', W =5'		EA		\$	\$9,000		
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"	CY	@	\$ 98	=	\$
Rip Rap, Grouted	CY	@	\$ 215	=	\$
Drainage Channel Construction, Size (W x H)	LF	@	\$ 1,984,422	=	\$
Channel Lining, Concrete	CY	@	\$ 450	=	\$
Channel Lining, Rip Rap	CY	@	\$ 98	=	\$
Channel Lining, Grass	AC	@	\$ 1,287	=	\$
Channel Lining, Other Stabilization	SY	@	\$ 3	=	\$

Permanent Water Quality Facility (Describe)	EA	@	\$	=	\$
<p>**all items this section subject to defect warranty financial assurance. † For flared end sections, multiply pipe LF cost by 6</p>					
Section 2 Subtotal				=	\$ **

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)			@	\$	= \$
			@	\$	= \$
			@	\$	= \$
			@	\$	= \$
			@	\$	= \$
			@	\$	= \$
- Storm Drain Improvements					
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	= \$
			@	\$	= \$
			@	\$	= \$
Sediment(s) Basin Rip Rap	27.00	CY	@	\$ 98	= \$ 2,646.00
		EA	@	\$	= \$
		EA	@	\$	= \$
		EA	@	\$	= \$
- Water System Improvements					
Water Main Pipe (PVC), Size 8"		LF	@	\$ 94	= \$
Water Main Pipe (PVC), Size 12"		LF	@	\$ 120	= \$
Water Main Pipe (PVC), Size 16"		LF	@	\$ 135	= \$
Water Main Pipe (Ductile Iron), Size 8"		LF	@	\$ 137	= \$
Gate Valves, 8"		EA	@	\$ 1,852	= \$
Gate Valves, 12"		EA	@	\$ 4,951	= \$
Butterfly Valves, 16"		EA	@	\$ 6,448	= \$
Fire Hydrant Assembly w/ all valves		EA	@	\$ 6,430	= \$
Water Service Line Installation, inc. tap & 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	@	\$ 120	= \$
Sewer Main Pipe (PVC), Size 15"		LF	@	\$ 135	= \$
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	@	\$	= \$
		SF	@	\$	= \$
		SY	@	\$	= \$
		EA	@	\$	= \$
***items in this section are not subject to defect warranty financial assurance					
				Section 3 Subtotal	= \$ 2,646.00

Financial Assurance Totals

As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS) (Inc. survey to verify detention pond volumes.)	Construction Financial Assurance Total	=	\$ <u>219,616.00</u>
	(Sum of all Section Totals)		
	Public Improvements Total**	=	\$ 182,230.00
	Defect Warranty Financial Assurance Total	=	\$ 36,446.00
	(20% of Section 2 Subtotal and 20% of identified Grading and Erosion BMP items)		218,676.00

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 11/5/18
PE # 38923



[Handwritten Signature]

11/5/18

Approved by Owner / Applicant

Approved
by Elizabeth Nijkamp
El Paso County Planning and Community Development
on behalf of Jennifer Irvine, County Engineer, ECM Administrator
11/07/2018 1:29:12 PM



Date

Approved by El Paso County Engineer / ECM Administrator

Date