

2023 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 1/19/2023

PROJECT INFORMATION		
Saddlehorn Ranch Filing 2 Improvements	1/19/2023	SF-21-033
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)							
Earthwork							
less than 1,000; \$5,300 min		CY	\$ 8.00	=	\$ -		\$ -
1,000-5,000; \$8,000 min		CY	\$ 6.00	=	\$ -		\$ -
5,001-20,000; \$30,000 min		CY	\$ 5.00	=	\$ -		\$ -
20,001-50,000; \$100,000 min		CY	\$ 3.50	=	\$ -		\$ -
50,001-200,000; \$175,000 min	50,633	CY	\$ 2.50	=	\$ 175,000.00		\$ 175,000.00
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -
Permanent Erosion Control Blanket		SY	\$ 8.00	=	\$ -		\$ -
Permanent Seeding (inc. noxious weed mgmnt.) & Mulching	6.36	AC	\$ 1,875.00	=	\$ 11,925.00		\$ 11,925.00
Permanent Pond/BMP (provide engineer's estimate)	See Below	EA		=			
Detention Outlet Structure	1	EA	\$ 5,000.00		\$ 5,000.00		\$ 5,000.00
Concrete/Riprap Forebay	1	EA	\$ 3,000.00		\$ 3,000.00		\$ 3,000.00
Concrete Trickle Channel	330	CY	\$ 95.00		\$ 31,350.00		\$ 31,350.00
Detention Emergency Spillway	1	EA	\$ 4,000.00		\$ 4,000.00		\$ 4,000.00
Drainage Riprap, d50 size from 6" to 24"	694	Tons	\$ 83.00		\$ 57,602.00		\$ 57,602.00
Permanent WQ Feature (EDB)	1	EA	\$ 5,000.00		\$ 5,000.00		\$ 5,000.00
Gravel Maintenance Access Road	6,701	SY	\$ 45.00		\$ 301,545.00		\$ 301,545.00
Concrete Washout Basin	1	EA	\$ 1,089.00	=	\$ 1,089.00		\$ 1,089.00
Inlet Protection	18	EA	\$ 202.00	=	\$ 3,636.00		\$ 3,636.00
Rock Check Dam	36	EA	\$ 605.00	=	\$ 21,780.00		\$ 21,780.00
Safety Fence	50	LF	\$ 3.00	=	\$ 150.00		\$ 150.00
Sediment Basin	1	EA	\$ 2,132.00	=	\$ 2,132.00		\$ 2,132.00
Sediment Trap	0	EA	\$ 500.00	=	\$ -		\$ -
Silt Fence	11,010	LF	\$ 3.00	=	\$ 33,030.00		\$ 33,030.00
Slope Drain	0	LF	\$ 40.00	=	\$ -		\$ -
Straw Bale	0	EA	\$ 31.00	=	\$ -		\$ -
Straw Wattle/Rock Sock	0	LF	\$ 7.00	=	\$ -		\$ -
Surface Roughening	0.0	AC	\$ 250.00		\$ -		\$ -
Temporary Erosion Control Blanket	3,642	SY	\$ 3.00	=	\$ 10,926.00		\$ 10,926.00
Temporary Seeding and Mulching	13	AC	\$ 1,666.00	=	\$ 21,658.00		\$ 21,658.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ 34,666.10		\$ 34,666.10
MAINTENANCE (35% of Construction BMPs)				=	\$ 34,666.10		\$ 34,666.10
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)							
Section 1 Subtotal				=	\$ 729,223.10		\$ 729,223.10

SECTION 2 - PUBLIC IMPROVEMENTS *

ROADWAY IMPROVEMENTS							
Construction Traffic Control	1.0	LS	\$ 50,000.00	=	\$ 50,000.00		\$ 50,000.00
Aggregate Base Course (135 lbs/cf)	5,080	Tons	\$ 34.00	=	\$ 172,720.00		\$ 172,720.00
Aggregate Base Course (135 lbs/cf)		CY	\$ 61.00	=	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 17.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 23.00	=	\$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 35.00	=	\$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick	20,805	Tons	\$ 106.00	=	\$ 2,205,330.00		\$ 2,205,330.00
Removal of Asphalt (Full Depth)	210	SY	\$ 10.00	=	\$ 2,100.00		\$ 2,100.00
Removal of Asphalt (Planning-4")	837	SY	\$ 5.00	=	\$ 4,185.00		\$ 4,185.00
Removal of Striping	7,534	LF	\$ 1.00	=	\$ 7,534.00		\$ 7,534.00
Removal of Fencing	1,096	LF	\$ 5.00	=	\$ 5,480.00		\$ 5,480.00
Raised Median, Paved		SF	\$ 10.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign	7	EA	\$ 364.00	=	\$ 2,548.00		\$ 2,548.00
Guide/Street Name Sign	13	EA	\$ 250.00	=	\$ 3,250.00		\$ 3,250.00
Epoxy Pavement Marking	4,122	SF	\$ 16.00	=	\$ 65,952.00		\$ 65,952.00
Thermoplastic Pavement Marking	87	SF	\$ 28.00	=	\$ 2,436.00		\$ 2,436.00
Barricade - Type 3	8	EA	\$ 241.00	=	\$ 1,928.00		\$ 1,928.00
Delineator - Type I		EA	\$ 29.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 35.00	=	\$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 35.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 35.00	=	\$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 58.00	=	\$ -		\$ -
5" Sidewalk		SY	\$ 72.00	=	\$ -		\$ -
6" Sidewalk		SY	\$ 87.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 116.00	=	\$ -		\$ -
Pedestrian Ramp		EA	\$ 1,390.00	=	\$ -		\$ -

PROJECT INFORMATION

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Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 73.00	=	\$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 111.00	=	\$ -		\$ -
Curb Opening with Drainage Chase		EA	\$ 1,790.00	=	\$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 87.00	=	\$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,538.00	=	\$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 4,556.00	=	\$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 95.00	=	\$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 97.00	=	\$ -		\$ -
Electrical Conduit, Size =		LF	\$ 20.00	=	\$ -		\$ -
Traffic Signal, (provide engineer's estimate)		EA		=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							

Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe	223	LF	\$ 76.00	=	\$ 16,948.00		\$ 16,948.00
24" Reinforced Concrete Pipe	123	LF	\$ 91.00	=	\$ 11,193.00		\$ 11,193.00
19" X 20" Horizontal Elliptical Reinforced Concrete Pipe	68	LF	\$ 100.00	=	\$ 6,800.00		\$ 6,800.00
30" Reinforced Concrete Pipe	44	LF	\$ 114.00	=	\$ 5,016.00		\$ 5,016.00
36" Reinforced Concrete Pipe		LF	\$ 140.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 187.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 228.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 297.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 348.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 402.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 460.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 98.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 112.00	=	\$ -		\$ -
30" Corrugated Steel Pipe	16	LF	\$ 143.00	=	\$ 2,288.00		\$ 2,288.00
36" Corrugated Steel Pipe		LF	\$ 171.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 197.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 207.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 304.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 328.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 397.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 467.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 537.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 642.00	=	\$ -		\$ -
18" - Flared End Section (FES)	6	EA	\$ 402.00	=	\$ 2,412.00		\$ 2,412.00
18" - Flared End Section (FES)	8	EA	\$ 402.00	=	\$ 3,216.00		\$ 3,216.00
24" - Flared End Section (FES)	4	EA	\$ 486.00	=	\$ 1,944.00		\$ 1,944.00
19" X 30" - Flared End Section (FES)	2	EA	\$ 600.00	=	\$ 1,200.00		\$ 1,200.00
30" - Flared End Section (FES)	2	EA	\$ 600.00	=	\$ 1,200.00		\$ 1,200.00
Flared End Section (FES) RCP Size =30 <small>(unit cost = 6x pipe unit cost)</small>	1	EA	\$ 600.00	=	\$ 600.00		\$ 600.00
Flared End Section (FES) CSP Size = <small>(unit cost = 6x pipe unit cost)</small>		EA		=	\$ -		\$ -
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 6,703.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 8,715.00	=	\$ -		\$ -
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 10,092.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', Depth < 5'		EA	\$ 9,224.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'		EA	\$ 9,507.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 11,901.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', Depth < 5'		EA	\$ 11,995.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA	\$ 12,858.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 14,061.00	=	\$ -		\$ -

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						% Complete	Remaining	
Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 12,783.00	=	\$ -		\$ -	
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 14,109.00	=	\$ -		\$ -	
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,931.00	=	\$ -		\$ -	
Storm Sewer Manhole, Box Base		EA	\$ 14,061.00	=	\$ -		\$ -	
Storm Sewer Manhole, Slab Base		EA	\$ 7,734.00	=	\$ -		\$ -	
Geotextile (Erosion Control)		SY	\$ 8.00	=	\$ -		\$ -	
Rip Rap, d50 size from 6" to 24"	476	Tons	\$ 97.00	=	\$ 46,172.00		\$ 46,172.00	
Rip Rap, Grouted		Tons	\$ 115.00	=	\$ -		\$ -	
Drainage Channel Construction, Size (W x H)		LF	\$ -	=	\$ -		\$ -	
Drainage Channel Lining, Concrete		CY	\$ 689.00	=	\$ -		\$ -	
Drainage Channel Lining, Rip Rap		CY	\$ 135.00	=	\$ -		\$ -	
Drainage Channel Lining, Grass		AC	\$ 1,776.00	=	\$ -		\$ -	
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)								
Section 2 Subtotal					=	\$ 2,622,452.00		\$ 2,622,452.00

SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC) **

ROADWAY IMPROVEMENTS

				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -

STORM DRAIN IMPROVEMENTS		(Exception: Permanent Pond/BMP shall be itemized under Section 1)					
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -

WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	6,800	LF	\$ 78.00	=	\$ 530,400.00		\$ 530,400.00
Water Main Pipe (PVC), Size 12"	1,696	LF	\$ 100.00	=	\$ 169,600.00		\$ 169,600.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 91.00	=	\$ -		\$ -
Water Main Pipe (Ductile Iron), Size 6"	243	LF	\$ 66.00	=	\$ 16,038.00		\$ 16,038.00
Gate Valves, 8"	22	EA	\$ 2,247.00	=	\$ 49,434.00		\$ 49,434.00

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						% Complete	Remaining	
Gate Valves, 12"	6	EA	\$ 2,900.00		\$ 17,400.00		\$ 17,400.00	
Fire Hydrant Assembly, w/ all valves	18	EA	\$ 7,978.00	=	\$ 143,604.00		\$ 143,604.00	
Water Service Line Installation, inc. tap and valves	42	EA	\$ 1,601.00	=	\$ 67,242.00		\$ 67,242.00	
Fire Cistern Installation, complete		EA		=	\$ -		\$ -	
[insert items not listed but part of construction plans]				=	\$ -		\$ -	
SANITARY SEWER IMPROVEMENTS								
Sewer Main Pipe (PVC), Size 8"		LF	\$ 78.00	=	\$ -		\$ -	
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 5,305.00	=	\$ -		\$ -	
Sanitary Service Line Installation, complete		EA	\$ 1,696.00	=	\$ -		\$ -	
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -	
[insert items not listed but part of construction plans]				=	\$ -		\$ -	
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)								
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
** - Section 3 is not subject to defect warranty requirements					Section 3 Subtotal	=	\$ 993,718.00	\$ 993,718.00
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	\$ 10,000.00	=	\$ 10,000.00		\$ 10,000.00	
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 10,000.00	=	\$ 10,000.00		\$ 10,000.00	
Total Construction Financial Assurance							\$ 4,365,393.10	
(Sum of all section subtotals plus as-builts and pond/BMP certification)								
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)							\$ 4,365,393.10	
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)								
Total Defect Warranty Financial Assurance							\$ 561,875.40	
(20% of all items identified as (*). 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 Grading and Erosion Control Plan and Construction Drawings associated with the Project.



Engineer (P.E. Seal Required)



1/20/23

Date



Approved by Owner / Applicant

Date

Approved by El Paso County Engineer / ECM Administrator

Date