

Remove FAE from the drainage report.

JR: Noted

EPC STORMWATER REVIEW COMMENTS ARE SHOWN IN ORANGE BOXES WITH BLACK TEXT

2022 Financial Assurance Estimate Form
(with pre-plat construction)

Updated: 5/12/2022

PROJECT INFORMATION		
Saddlehorn Ranch Filing 2 Improvements Early Grading	5/12/2022	EGP221
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 Seeding (inc. noxious weed mgmnt.)	6	AC	\$ 828.00	= \$ 5,266.08		\$ 5,266.08
* Mulching	6	AC	\$ 777.00	= \$ 4,662.00		\$ 4,662.00
* Permanent Erosion Control Blanket		SY	\$ 6.00	= \$ -		\$ -
* Permanent Pond/BMP Construction		CY	\$ -	= \$ -		\$ -
* Permanent Pond/BMP (provide engineer's estimate)		EA		= \$ -		\$ -
*30" RCP		LF	\$ 100.00	= \$ -		\$ -
*Detention Outlet Structure		EA	\$ 5,000.00	= \$ -		\$ -
*Concrete/Riprap Forebay		EA	\$ 3,000.00	= \$ -		\$ -
*Concrete Trickle Channel		CY	\$ 95.00	= \$ -		\$ -
*Detention Emergency Spillway		EA	\$ 4,000.00	= \$ -		\$ -
*Drainageway riprap, d50 size from 6" to 24"		Tons	\$ 83.00	= \$ -		\$ -
*30" - Flared End Section (FES)		EA	\$ 600.00	= \$ -		\$ -
*Permanent WQ Feature (EDB)		EA	\$ 5,000.00	= \$ -		\$ -
*Gravel Maintenance Access Road	1,046	SY	\$ 45.00	= \$ 47,130.00		\$ 47,130.00
Safety Fence	8,102	LF	\$ 3.00	= \$ 24,306.00		\$ 24,306.00
Temporary Erosion Control Blanket	3,642	SY	\$ 3.00	= \$ 10,926.00		\$ 10,926.00
Vehicle Tracking Control		EA	\$ 2,453.00	= \$ -		\$ -
Silt Fence		LF	\$ 2.60	= \$ -		\$ -
Temporary Seeding		AC	\$ 650.00	= \$ -		\$ -
Temporary Mulch		AC	\$ 777.00	= \$ -		\$ -
Erosion Bales		EA	\$ 26.00	= \$ -		\$ -
Erosion Logs/Straw Waddle		LF	\$ 5.00	= \$ -		\$ -
Rock Check Dams		EA	\$ 518.00	= \$ -		\$ -
Inlet and Outlet Protection		EA	\$ 173.00	= \$ -		\$ -
Sediment Basin		EA	\$ 1,824.00	= \$ -		\$ -
Concrete Washout Basin		EA	\$ 932.00	= \$ -		\$ -
[insert items not listed but part of co				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ -		\$ -
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)						
Section 1 Subtotal				= \$ -		\$ -

Add emergency spillway since this got added in the latest GEC submittal

Add the following items since these are shown on the GEC and/or noted as being constructed in the FDR narrative:
 - Pond F forebay
 - Emergency Spillway
 - Pond outfall spreader/riprap
 - Riprap rundown into the forebay
 - Trickle Channel
 - Concrete Washout Basin

update for 15' wide access road
 JR: Quantity has been removed since the gravel maintenance access trail is not being constructed with Sediment Basin 1 during early grading.

JR: None of the following items will be constructed with Sediment basin 1 at the time of early grading. The items have been removed from the Early Grading GEC Plans. They are only mentioned in the Early Grading FDR narrative to explain the future of sediment basin 1 once the project progresses past early grading.

SECTION 2 - PUBLIC IMPROVEMENTS *						
ROADWAY IMPROVEMENTS						
Mobilization/Construction Traffic Control		LS	\$ 50,000.00	= \$ 50,000.00		\$ 50,000.00
Removal of Asphalt (Full Depth)		SY	\$ 10.00	= \$ -		\$ -
Removal of Asphalt (Planing-4")		SY	\$ 5.00	= \$ -		\$ -
Removal of Striping		LF	\$ 1.00	= \$ -		\$ -
Removal of Fencing		LF	\$ 5.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 29.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 52.00	= \$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.50	= \$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 20.00	= \$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 30.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 91.00	= \$ -		\$ -
Raised Median, Paved		SF	\$ 8.30	= \$ -		\$ -
Regulatory Sign/Advisory Sign		EA	\$ 311.00	= \$ -		\$ -
Guide/Street Name Sign		EA	\$ 250.00	= \$ -		\$ -
Epoxy Pavement Marking		SF	\$ 14.00	= \$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 24.00	= \$ -		\$ -
Barricade - Type 3	4	EA	\$ 207.00	= \$ 828.00		\$ 828.00
Delineator - Type I		EA	\$ 25.00	= \$ -		\$ -

PROJECT INFORMATION

Saddlehorn Ranch Filing 2 Improvements Early Grading	5/12/2022	EGP221
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
Curb and Gutter, Type A (6" Vertical)		LF	\$ 31.00	=	\$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 31.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 31.00	=	\$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 50.00	=	\$ -		\$ -
5" Sidewalk		SY	\$ 62.00	=	\$ -		\$ -
6" Sidewalk		SY	\$ 75.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 99.00	=	\$ -		\$ -
Pedestrian Ramp		EA	\$ 1,190.00	=	\$ -		\$ -
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 63.00	=	\$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 95.00	=	\$ -		\$ -
Curb Chase		EA	\$ 1,532.00	=	\$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 51.00	=	\$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 75.00	=	\$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,899.00	=	\$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 81.00	=	\$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 83.00	=	\$ -		\$ -
Electrical Conduit, Size =		LF	\$ 17.00	=	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 439,875	=	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 439,875	=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe		LF	\$ 67.00	=	\$ -		\$ -
24" Reinforced Concrete Pipe	123	LF	\$ 81.00	=	\$ 9,963.00		\$ 9,963.00
19" x 30" Horizontal Elliptical Reinforced Concrete Pipe		LF	\$ 100.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 269.00	=	\$ -		\$ -
18" CMP	354	LF	\$ 30.00	=	\$ 10,620.00		\$ 10,620.00
60" Corrugated Steel Pipe		LF	\$ 290.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 352.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 414.00	=	\$ -		\$ -
18" - Flared End Section (FES)		EA	\$ 402.00	=	\$ -		\$ -
18" - Flared End Section (FES)		EA	\$ 402.00	=	\$ -		\$ -
24" - Flared End Section (FES)	4	EA	\$ 486.00	=	\$ 1,944.00		\$ 1,944.00
19" x 30" - Flared End Section (FES)		EA	\$ 600.00	=	\$ -		\$ -
30" - Flared End Section (FES)		EA	\$ 600.00	=	\$ -		\$ -
32" Flared End Section (FES)		EA	\$ 650.00	=	\$ -		\$ -
Flared End Section (FES) CSP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 5,736.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,440.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 8,637.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 7,894.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 8,136.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 10,185.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 10,265.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 11,005.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 12,034.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 10,940.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 12,075.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,802.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,932.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 12,034.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 6,619.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.20	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 83.00	=	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 98.00	=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 590.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 116.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC		=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
<i>* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)</i>				=	\$ -		\$ -
Section 2 Subtotal				=	\$ 23,355.00		\$ 23,355.00

PROJECT INFORMATION

Saddlehorn Ranch Filing 2 Improvements Early Grading	5/12/2022	EGP221
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining

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"		LF	\$ 66.00	=	\$	-	\$	-
Water Main Pipe (PVC), Size 12"		LF	\$ 100.00	=	\$	-	\$	-
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 78.00	=	\$	-	\$	-
Gate Valves, 8"		EA	\$ 1,923.00	=	\$	-	\$	-
Gate Valves, 12"		EA	\$ 2,900.00	=	\$	-	\$	-
Fire Hydrant Assembly, w/ all valves		EA	\$ 6,828.00	=	\$	-	\$	-
Water Service Line Installation, inc. tap and valves		EA	\$ 1,370.00	=	\$	-	\$	-
Fire Cistern Installation, complete		EA		=	\$	-	\$	-
[insert items not listed but part of construction plans]				=	\$	-	\$	-

SANITARY SEWER IMPROVEMENTS

Sewer Main Pipe (PVC), Size 8"		LF	\$ 66.00	=	\$	-	\$	-
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,540.00	=	\$	-	\$	-
Sanitary Service Line Installation, complete		EA	\$ 1,451.00	=	\$	-	\$	-
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		=	\$	-	\$	-

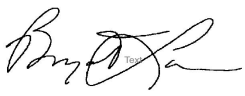
** - Section 3 is not subject to defect warranty requirements

AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)	LS			=	\$	-	\$	-
POND/BMP CERTIFICATION (inc. elevations and volume calculations)	LS			=	\$	-	\$	-


Total Construction Financial Assurance	\$	397,727.38
(Sum of all section subtotals plus as-builts and pond/BMP certification)		
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)	\$	397,727.38
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)		
Total Defect Warranty Financial Assurance	\$	41,656.62
(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)



Approved by Owner / Applicant

Date

Approved by El Paso County Engineer / ECM Administrator

Date