

please update per comments provided on the other engineering documents

SF-21-033

Updated: 12/22/2020

2021 Financial Assurance Estimate Form (with pre-plat construction)

PROJECT INFORMATION		
Saddlehorn Ranch Filing 2 Improvements	6/4/2021	SF-XX-XXX
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	50,663	CY	\$ 2.50	= \$	126,657.50	175,000.00
greater than 200,000; \$500,000 min		CY	\$ 2.00	= \$		
* Permanent Seeding (inc. noxious weed mgmnt.)	13	AC	\$ 828.00	= \$	10,764.00	10,764.00
* Mulching	13	AC	\$ 777.00	= \$	10,101.00	10,101.00
* Permanent Erosion Control Blanket	0	SY	\$ 6.00	= \$		
* Permanent Pond/BMP Construction	See Below	CY	\$ -	= \$		
* Permanent Pond/BMP (provide engineer's estimate)		EA		= \$		
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	3?	EA	\$ 2,453.00	= \$	4,906.00	4,906.00
Silt Fence	11,010	LF	\$ 2.60	= \$	28,626.00	28,626.00
Temporary Seeding	13	AC	\$ 650.00	= \$	8,450.00	8,450.00
Temporary Mulch	13	AC	\$ 777.00	= \$	10,101.00	10,101.00
Erosion Bales	0	EA	\$ 26.00	= \$		
Erosion Logs/Straw Waddle	0	LF	\$ 5.00	= \$		
Rock Check Dams	28	EA	\$ 518.00	= \$	14,504.00	14,504.00
Inlet Protection	8	EA	\$ 173.00	= \$	1,384.00	1,384.00
Sediment Basin	1	EA	\$ 1,824.00	= \$	1,824.00	1,824.00
Concrete Washout Basin	1	EA	\$ 932.00	= \$	932.00	932.00
<i>[insert items not listed but part of construction plans]</i>						
30" RCP	38	LF	\$ 100.00	= \$	3,800.00	3,800.00
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	100	CY	\$ 95.00	= \$	9,500.00	9,500.00
Detention Emergency Spillway	1	EA	\$ 4,000.00	= \$	4,000.00	4,000.00
30" - Flared End Section (FES)	1	EA	\$ 600.00	= \$	600.00	600.00
Permanent WQ Feature (EDB)	1	EA	\$ 5,000.00	= \$	5,000.00	5,000.00
Gravel Maintenance Access Road	713	SY	\$ 45.00	= \$	32,085.00	32,085.00
MAINTENANCE (35% of Construction BMPs)				= \$	50,623.30	50,623.30
Section 1 Subtotal				= \$	415,432.30	415,432.30

Please relocate the pond items to the specified location on the FAE sheet so that these items are subject to the defect warranty as required.

Revise. See GEC comments

include OP

SECTION 2 - PUBLIC IMPROVEMENTS *

ROADWAY IMPROVEMENTS						
Removal of Asphalt (Full Depth)	210	SY	\$ 10.00	= \$	2,100.00	2,100.00
Removal of Asphalt (Planing-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
Aggregate Base Course (135 lbs/cf)	5,080	Tons	\$ 29.00	= \$	147,320.00	147,320.00
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) 6" thick	20,805	Tons	\$ 91.00	= \$	1,893,255.00	1,893,255.00
Raised Median, Paved		SF	\$ 8.30	= \$		
Regulatory Sign/Advisory Sign	7	EA	\$ 311.00	= \$	2,177.00	2,177.00
Guide/Street Name Sign	13	EA	\$ 250.00	= \$	3,250.00	3,250.00
Epoxy Pavement Marking	4,122	SF	\$ 14.00	= \$	57,708.00	57,708.00
Thermoplastic Pavement Marking	87	SF	\$ 24.00	= \$	2,097.60	2,097.60
Barricade - Type 3	4	EA	\$ 207.00	= \$	828.00	828.00
Delineator - Type I		EA	\$ 25.00	= \$		
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	= \$		

PROJECT INFORMATION							
Saddlehorn Ranch Filing 2 Improvements	6/4/2021		SF-XX-XXX				
Project Name	Date		PCD File No.				
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
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 End Anchorage		EA	\$ 2,172.00	=	\$ -		\$ -
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	=	\$ -		\$ -
[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	174	LF	\$ 67.00	=	\$ 11,658.00		\$ 11,658.00
24" Reinforced Concrete Pipe	99	LF	\$ 81.00	=	\$ 8,019.00		\$ 8,019.00
19" x 30" Horizontal Elliptical Reinforced Concrete Pipe	56	LF	\$ 100.00	=	\$ 5,600.00		\$ 5,600.00
30" Reinforced Concrete Pipe	51	LF	\$ 100.00	=	\$ 5,100.00		\$ 5,100.00
42" Reinforced Concrete Pipe		LF	\$ 166.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 202.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 254.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 298.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 344.00	=	\$ -		\$ -
18" - Flared End Section (FES)	6	EA	\$ 402.00	=	\$ 2,412.00		\$ 2,412.00
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
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"	476	Tons	\$ 83.00	=	\$ 39,508.00		\$ 39,508.00
Rip Rap, Grouted		Tons	\$ 98.00	=	\$ -		\$ -
Drainage Channel Construction, Size (W x H)		LF		=	\$ -		\$ -
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				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -

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

ROADWAY IMPROVEMENTS

				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -

(Exception: Permanent Pond/BMP shall be itemized under Section 1)

section 2 subtotal is missing.
Please provide

PROJECT INFORMATION			
Saddlehorn Ranch Filing 2 Improvements	6/4/2021		SF-XX-XXX
Project Name	Date		PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	6,800	LF	\$ 66.00	=	\$ 448,800.00		\$ 448,800.00
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	\$ 78.00	=	\$ -		\$ -
Gate Valves, 8"	22	EA	\$ 1,923.00	=	\$ 42,306.00		\$ 42,306.00
Gate Valves, 12"	6	EA	\$ 2,900.00	=	\$ 17,400.00		\$ 17,400.00
Fire Hydrant Assembly, w/ all valves	18	EA	\$ 6,828.00	=	\$ 122,904.00		\$ 122,904.00
Water Service Line Installation, inc. tap and valves	42	EA	\$ 1,370.00	=	\$ 57,540.00		\$ 57,540.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>							
				=	\$ -		\$ -
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		=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>							
				=	\$ -		\$ -
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				=	\$ 858,550.00		\$ 858,550.00
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						=	\$ 3,546,557.90
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						=	\$ 3,546,557.90
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance						=	\$ 489,688.12
(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