

2020 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 02/28/2020

PROJECT INFORMATION			
Grandwood Ranch - Final Plat	12/1/2021	\$	389,310.00
Project Name	Date		PCD File No. SF2026

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)		
						% Complete	Remaining	
SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)								
<i>* Earthwork</i>								
less than 1,000; \$5,300 min		CY	\$ 8.00	=	\$ -		\$ -	
1,000-5,000; \$8,000 min	2,899	CY	\$ 6.00	=	\$ 17,394.00	80.00%	\$ 3,478.80	
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		CY	\$ 2.50	=	\$ -		\$ -	
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -	
* Permanent Seeding (inc. noxious weed mgmnt.)	19	AC	\$ 800.00	=	\$ 15,200.00		\$ 15,200.00	
* Mulching	19	AC	\$ 750.00	=	\$ 14,250.00		\$ 14,250.00	
* Permanent Erosion Control Blanket	54,696	SY	\$ 6.00	=	\$ 328,176.00		\$ 328,176.00	
* Permanent Pond/BMP Construction	4	EA	\$ 10,000.00	=	\$ 40,000.00	80.00%	\$ 8,000.00	
* Permanent Pond/BMP Forebay	4	EA	\$ 12,000.00	=	\$ 48,000.00	80.00%	\$ 9,600.00	
* Permanent Pond/BMP Concrete Trickle Channel	53	CY	\$ 570.00	=	\$ 30,210.00	80.00%	\$ 6,042.00	
* Permanent Pond/BMP (Spillway)	4	EA	\$ 10,000.00	=	\$ 40,000.00	80.00%	\$ 8,000.00	
* Permanent Pond/BMP (Outlet Structure)	4	EA	\$ 15,000.00	=	\$ 60,000.00	80.00%	\$ 12,000.00	
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -	
Temporary Erosion Control Blanket	54,696	SY	\$ 3.00	=	\$ 164,088.00	100.00%	\$ -	
Vehicle Tracking Control	2	EA	\$ 2,370.00	=	\$ 4,740.00	100.00%	\$ -	
Silt Fence	5,473	LF	\$ 2.50	=	\$ 13,682.50	100.00%	\$ -	
Temporary Seeding		AC	\$ 628.00	=	\$ -		\$ -	
Temporary Mulch		AC	\$ 750.00	=	\$ -		\$ -	
Erosion Bales	32	EA	\$ 25.00	=	\$ 800.00	90.00%	\$ 80.00	
Erosion Logs/Straw Waddle	2,989	LF	\$ 5.00	=	\$ 14,945.00	100.00%	\$ -	
Rock Check Dams	21	EA	\$ 500.00	=	\$ 10,500.00		\$ 10,500.00	
Inlet Protection	41	EA	\$ 167.00	=	\$ 6,847.00	100.00%	\$ -	
Sediment Basin	13	EA	\$ 1,762.00	=	\$ 22,906.00	100.00%	\$ -	
Concrete Washout Basin	2	EA	\$ 900.00	=	\$ 1,800.00	100.00%	\$ -	
Type 3 Barricade	2	EA	\$ 200.00	=	\$ 400.00	100.00%	\$ -	
[insert items not listed but part of construction plans]				=	\$ -		\$ -	
MAINTENANCE (35% of Construction BMPs)					=	\$ 84,247.98		\$ 84,247.98
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)					Section 1 Subtotal	=	\$ 918,186.48	\$ 499,574.78
SECTION 2 - PUBLIC IMPROVEMENTS *								
ROADWAY IMPROVEMENTS								
Construction Traffic Control		LS		=	\$ -		\$ -	
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28.00	=	\$ -		\$ -	
Aggregate Base Course (135 lbs/cf)	6,361	CY	\$ 50.00	=	\$ 318,031.69	70.00%	\$ 95,409.51	
Asphalt Pavement (3" thick)	20,448	SY	\$ 14.00	=	\$ 286,272.00	70.00%	\$ 85,881.60	
Asphalt Pavement (4" thick)	5,907	SY	\$ 19.00	=	\$ 112,233.00	70.00%	\$ 33,669.90	
Asphalt Pavement (6" thick)		SY	\$ 29.00	=	\$ -		\$ -	
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 88.00	=	\$ -		\$ -	
Raised Median, Paved		SF	\$ 8.00	=	\$ -		\$ -	
Regulatory Sign/Advisory Sign	6	EA	\$ 300.00	=	\$ 1,800.00		\$ 1,800.00	
Guide/Street Name Sign	7	EA	\$ 200.00	=	\$ 1,400.00		\$ 1,400.00	
Epoxy Pavement Marking	2,120	SF	\$ 13.00	=	\$ 27,563.22		\$ 27,563.22	
Thermoplastic Pavement Marking	18	SF	\$ 23.00	=	\$ 416.28		\$ 416.28	
Barricade - Type 3		EA	\$ 200.00	=	\$ -		\$ -	
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -	
Curb and Gutter, Type A (6" Vertical)	506	LF	\$ 30.00	=	\$ 15,194.22		\$ 15,194.22	
Curb and Gutter, Type B (Median)		LF	\$ 30.00	=	\$ -		\$ -	
Curb and Gutter, Type C (Ramp)		LF	\$ 30.00	=	\$ -		\$ -	
4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -		\$ -	
5" Sidewalk		SY	\$ 60.00	=	\$ -		\$ -	
6" Sidewalk		SY	\$ 72.00	=	\$ -		\$ -	
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -	
Pedestrian Ramp		EA	\$ 1,150.00	=	\$ -		\$ -	
Cross Pan, local (8" thick, 6' wide to include return)	88	LF	\$ 61.00	=	\$ 5,351.35		\$ 5,351.35	
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 92.00	=	\$ -		\$ -	
Curb Chase		EA	\$ 1,480.00	=	\$ -		\$ -	
Guardrail Type 3 (W-Beam)		LF	\$ 49.00	=	\$ -		\$ -	
Guardrail Type 7 (Concrete)		LF	\$ 72.00	=	\$ -		\$ -	
Guardrail End Anchorage		EA	\$ 2,098.00	=	\$ -		\$ -	
Guardrail Impact Attenuator		EA	\$ 3,767.00	=	\$ -		\$ -	
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 78.00	=	\$ -		\$ -	
Sound Barrier Fence (panels, 6' high)		LF	\$ 80.00	=	\$ -		\$ -	

PROJECT INFORMATION			
Grandwood Ranch - Final Plat	12/1/2021	\$	389,310.00
Project Name	Date		PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
Electrical Conduit, Size =		LF	\$ 16.00	=	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 425,000	=	\$ -		\$ -
				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
15" Reinforced Concrete Pipe		LF	\$ 55.00	=	\$ -		\$ -
18" Reinforced Concrete Pipe	1,417	LF	\$ 65.00	=	\$ 92,105.00	80.00%	\$ 18,421.00
24" Reinforced Concrete Pipe	33	LF	\$ 78.00	=	\$ 2,574.00	80.00%	\$ 514.80
30" Reinforced Concrete Pipe		LF	\$ 97.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe	525	LF	\$ 120.00	=	\$ 63,000.00	80.00%	\$ 12,600.00
42" Reinforced Concrete Pipe		LF	\$ 160.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 195.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 245.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 288.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 332.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 380.00	=	\$ -		\$ -
14"x23" Reinforced Concrete Pipe	168	LF	\$ 130.00	=	\$ 21,840.00	80.00%	\$ 4,368.00
34"x53" Reinforced Concrete Pipe	405	LF	\$ 320.00	=	\$ 129,600.00	80.00%	\$ 25,920.00
18" Corrugated Steel Pipe		LF	\$ 84.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 96.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 122.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 147.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 168.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 178.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 260.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 280.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 340.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 400.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 460.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 550.00	=	\$ -		\$ -
29" x 42" Arch Corrugated Steel Pipe	9	LF	\$ 294.00	=	\$ 2,646.00	80.00%	\$ 529.20
Flared End Section (FES) RCP Size = 15" (unit cost = 6x pipe unit cost)		EA	\$ 330.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 18" (unit cost = 6x pipe unit cost)	13	EA	\$ 390.00	=	\$ 5,070.00	80.00%	\$ 1,014.00
Flared End Section (FES) RCP Size = 24" (unit cost = 6x pipe unit cost)	1	EA	\$ 468.00	=	\$ 468.00	80.00%	\$ 93.60
Flared End Section (FES) RCP Size = 30" (unit cost = 6x pipe unit cost)		EA	\$ 582.00	=	\$ -		\$ -
Flared End Section (FES) CSP Size = 36" (unit cost = 6x pipe unit cost)	7	EA	\$ 720.00	=	\$ 5,040.00	80.00%	\$ 1,008.00
Flared End Section (FES) CSP Size = 14" x 23" ERCP (unit cost = 6x pipe unit cost)	8	EA	\$ 780.00	=	\$ 6,240.00	80.00%	\$ 1,248.00
Flared End Section (FES) CSP Size = 29" x 42" ERCP (unit cost = 6x pipe unit cost)	1	EA	\$ 1,764.00	=	\$ 1,764.00	80.00%	\$ 352.80
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 5,542.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,188.00	=	\$ -		\$ -
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 8,345.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', Depth < 5'		EA	\$ 7,627.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'		EA	\$ 7,861.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 9,841.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', Depth < 5'		EA	\$ 9,918.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA	\$ 10,633.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 11,627.00	=	\$ -		\$ -
Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 10,570.00	=	\$ -		\$ -
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 11,667.00	=	\$ -		\$ -
Grated Inlet (Type C), 5' ≤ Depth < 10'	8	EA	\$ 4,640.00	=	\$ 37,120.00	80.00%	\$ 7,424.00
Grated Inlet (Type D), Depth < 5'	5	EA	\$ 5,731.00	=	\$ 28,655.00	80.00%	\$ 5,731.00
Storm Sewer Manhole, Box Base	5	EA	\$ 11,627.00	=	\$ 58,135.00	80.00%	\$ 11,627.00
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 80.00	=	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 95.00	=	\$ -		\$ -

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Project Name			Date						
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)			
						% Complete	Remaining		
Drainage Channel Construction, Size (W x H)		LF		=	\$ -		\$ -	*	
Drainage Channel Lining, Concrete		CY	\$ 570.00	=	\$ -		\$ -	*	
Drainage Channel Lining, Rip Rap		CY	\$ 112.00	=	\$ -		\$ -	*	
Drainage Channel Lining, Grass		AC	\$ 1,469.00	=	\$ -		\$ -	*	
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -	*	
[insert items not listed but part of construction plans]									
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)									
Section 2 Subtotal					=	\$ 1,222,518.76		\$ 357,537.48	
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**									
ROADWAY IMPROVEMENTS									
4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -		\$ -		
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	=	\$ -		\$ -		
Asphalt Pavement (4" thick)		SY	\$ 19.00	=	\$ -		\$ -		
Curb and Gutter, Type C (Ramp)		LF	\$ 30.00	=	\$ -		\$ -		
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)									
8" HDPE Pipe	52	LF	\$ 45.00	=	\$ 2,340.00	100.00%	\$ -		
14" xc 23" Elliptical Reinforced Concrete Pipe	32	LF	\$ 130.00	=	\$ 4,160.00	100.00%	\$ -		
15" Reinforced Concrete Pipe	40	LF	\$ 55.00	=	\$ 2,200.00	100.00%	\$ -		
18" Reinforced Concrete Pipe	198	LF	\$ 65.00	=	\$ 12,870.00	100.00%	\$ -		
24" Reinforced Concrete Pipe	238	LF	\$ 78.00	=	\$ 18,564.00	100.00%	\$ -		
30" Reinforced Concrete Pipe		LF	\$ 97.00	=	\$ -		\$ -		
36" Reinforced Concrete Pipe		LF	\$ 120.00	=	\$ -		\$ -		
42" Reinforced Concrete Pipe		LF	\$ 160.00	=	\$ -		\$ -		
48" Reinforced Concrete Pipe		LF	\$ 195.00	=	\$ -		\$ -		
Flared End Section (FES) RCP Size = 15" (unit cost = 6x pipe unit cost)	2	EA	\$ 330.00	=	\$ 660.00	100.00%	\$ -		
Flared End Section (FES) RCP Size = 14" x 23" ERCP (unit cost = 6x pipe unit cost)	2	EA	\$ 780.00	=	\$ 1,560.00	100.00%	\$ -		
Flared End Section (FES) RCP Size = 18" (unit cost = 6x pipe unit cost)	1	EA	\$ 390.00	=	\$ 390.00	100.00%	\$ -		
Flared End Section (FES) RCP Size = 30" (unit cost = 6x pipe unit cost)		EA	\$ 582.00	=	\$ -		\$ -		
Flared End Section (FES) CSP Size = 36" (unit cost = 6x pipe unit cost)		EA	\$ 720.00	=	\$ -		\$ -		
End Treatment- Concrete Forebay	2	EA	\$ 15,000.00	=	\$ 30,000.00	100.00%	\$ -		
Grated Inlet (Type C), 5' ≤ Depth < 10'	3	EA	\$ 4,640.00	=	\$ 13,920.00	100.00%	\$ -		
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	=	\$ -		\$ -		
Storm Sewer Manhole, Box Base	2	EA	\$ 11,627.00	=	\$ 23,254.00	100.00%	\$ -		
WATER SYSTEM IMPROVEMENTS									
Water Main Pipe (PVC), Size 8"		LF	\$ 64.00	=	\$ -		\$ -		
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -		
Gate Valves, 8"		EA	\$ 1,858.00	=	\$ -		\$ -		
Fire Hydrant Assembly, w/ all valves		EA	\$ 6,597.00	=	\$ -		\$ -		
Water Service Line Installation, inc. tap and valves		EA	\$ 1,324.00	=	\$ -		\$ -		
Fire Cistern Installation, complete		EA		=	\$ -		\$ -		
[insert items not listed but part of construction plans]									
SANITARY SEWER IMPROVEMENTS									
Sewer Main Pipe (PVC), Size 8"		LF	\$ 64.00	=	\$ -		\$ -		
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,386.00	=	\$ -		\$ -		
Sanitary Service Line Installation, complete		EA	\$ 1,402.00	=	\$ -		\$ -		
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 Subtotal					=	\$ 109,918.00		\$ -	

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

PROJECT INFORMATION

Grandwood Ranch - Final Plat	11/30/2021	\$	389,310.00
Project Name	Date		PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	\$ 8,000.00	= \$ 8,000.00	\$	8,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 2,000.00	= \$ 2,000.00	\$	2,000.00
Total Construction Financial Assurance					\$	2,260,623.23
<small>(Sum of all section subtotals plus as-builts and pond/BMP certification)</small>						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)					\$	867,112.25
<small>(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)</small>						
Total Defect Warranty Financial Assurance					\$	363,149.75
<small>(20% of all items identified as (*), To be collateralized at time of preliminary acceptance)</small>						

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)

[Handwritten Signature]
Approved by Owner / Applicant

11-30-21
Date

Approved by El Paso County Engineer / ECM Administrator

APPROVED
Engineering Department

12/02/2021 11:19:47 AM
dsdnijkamp

EPC Planning & Community
Development Department