

2019 Financial Assurance Estimate Form
(with pre-plat construction)

Updated: 6/7/2019

PROJECT INFORMATION		
Paintbrush Hills Filing No. 14	9/20/2021	SF2024
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	32,866	CY	\$ 3.50	=	\$ 115,031.00		\$ 115,031.00	
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.)	72	AC	\$ 800.00	=	\$ 57,600.00		\$ 57,600.00	
* Mulching	72	AC	\$ 750.00	=	\$ 54,000.00		\$ 54,000.00	
* Permanent Erosion Control Blanket		SY	\$ 6.00	=	\$ -		\$ -	
* Permanent Pond/BMP Construction	1	EA	\$ 20,000.00	=	\$ 20,000.00		\$ 20,000.00	
* Permanent Pond/BMP (Spillway)		EA		=	\$ -		\$ -	
* Permanent Pond/BMP (Outlet Structure)	1	EA	\$ 15,000.00	=	\$ 15,000.00		\$ 15,000.00	
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -	
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -	
Vehicle Tracking Control	2	EA	\$ 2,370.00	=	\$ 4,740.00		\$ 4,740.00	
Silt Fence	4,822	LF	\$ 2.50	=	\$ 12,055.00		\$ 12,055.00	
Temporary Seeding	72	AC	\$ 628.00	=	\$ 45,216.00		\$ 45,216.00	
Temporary Mulch	72	AC	\$ 750.00	=	\$ 54,000.00		\$ 54,000.00	
Erosion Bales	48	EA	\$ 25.00	=	\$ 1,200.00		\$ 1,200.00	
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -	
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -	
Inlet Protection	14	EA	\$ 167.00	=	\$ 2,338.00		\$ 2,338.00	
Sediment Basin	8	EA	\$ 1,762.00	=	\$ 14,096.00		\$ 14,096.00	
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00	
[insert items not listed but part of construction plans]				=	\$ -		\$ -	
				=	\$ -		\$ -	
MAINTENANCE (35% of Construction BMPs)					=	\$ 47,090.75		\$ 47,090.75
Section 1 Subtotal					=	\$ 443,266.75		\$ 443,266.75
SECTION 2 - PUBLIC IMPROVEMENTS *								
ROADWAY IMPROVEMENTS								
Construction Traffic Control	1	LS	\$ 3,000.00	=	\$ 3,000.00		\$ 3,000.00	
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28.00	=	\$ -		\$ -	
Aggregate Base Course (135 lbs/cf)	8,437	CY	\$ 50.00	=	\$ 421,850.00		\$ 421,850.00	
Asphalt Pavement (3" thick)	37,782	SY	\$ 14.00	=	\$ 528,948.00		\$ 528,948.00	
Asphalt Pavement (4" thick)		SY	\$ 19.00	=	\$ -		\$ -	
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	14	EA	\$ 300.00	=	\$ 4,200.00		\$ 4,200.00	
Guide/Street Name Sign	26	EA	\$ 250.00	=	\$ 6,500.00		\$ 6,500.00	
Epoxy Pavement Marking	74	SF	\$ 13.00	=	\$ 962.00		\$ 962.00	
Thermoplastic Pavement Marking	192	SF	\$ 23.00	=	\$ 4,416.00		\$ 4,416.00	
Barricade - Type 3		EA	\$ 200.00	=	\$ -		\$ -	
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -	
Curb and Gutter, Type A (6" Vertical)	5,233	LF	\$ 30.00	=	\$ 156,990.00		\$ 156,990.00	
Curb and Gutter, Type B (Median)		LF	\$ 30.00	=	\$ -		\$ -	
Curb and Gutter, Type C (Ramp)	16,550	LF	\$ 30.00	=	\$ 496,500.00		\$ 496,500.00	
4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -		\$ -	
5" Sidewalk	12,866	SY	\$ 60.00	=	\$ 771,960.00		\$ 771,960.00	
5" Sidewalk (Londonderry/Keating/Rockingham)	287	SY	\$ 60.00	=	\$ 17,220.00		\$ 17,220.00	
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -	
Pedestrian Ramp	76	EA	\$ 1,150.00	=	\$ 87,400.00		\$ 87,400.00	
Pedestrian Ramp (Londonderry/Keating/Rockingham)	4	EA	\$ 1,150.00	=	\$ 4,600.00		\$ 4,600.00	
Cross Pan, local (8" thick, 6' wide to include return)	270	EA	\$ 61.00	=	\$ 16,470.00		\$ 16,470.00	
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	=	\$ -		\$ -	
Electrical Conduit, Size =		LF	\$ 16.00	=	\$ -		\$ -	
Traffic Signal, complete intersection		EA	\$ 425,000	=	\$ -		\$ -	

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Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)		
						% Complete	Remaining	
				=	\$ -		\$ -	
<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	187	LF	\$ 65.00	=	\$ 12,155.00		\$ 12,155.00	
24" Reinforced Concrete Pipe	90	LF	\$ 78.00	=	\$ 7,020.00		\$ 7,020.00	
30" Reinforced Concrete Pipe	429	LF	\$ 97.00	=	\$ 41,613.00		\$ 41,613.00	
36" Reinforced Concrete Pipe	304	LF	\$ 120.00	=	\$ 36,480.00		\$ 36,480.00	
42" Reinforced Concrete Pipe	270	LF	\$ 160.00	=	\$ 43,200.00		\$ 43,200.00	
48" Reinforced Concrete Pipe	2,423	LF	\$ 195.00	=	\$ 472,485.00		\$ 472,485.00	
54" Reinforced Concrete Pipe	183	LF	\$ 245.00	=	\$ 44,835.00		\$ 44,835.00	
60" Reinforced Concrete Pipe	163	LF	\$ 288.00	=	\$ 46,944.00		\$ 46,944.00	
66" Reinforced Concrete Pipe	114	LF	\$ 332.00	=	\$ 37,848.00		\$ 37,848.00	
72" Reinforced Concrete Pipe		LF	\$ 380.00	=	\$ -		\$ -	
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	=	\$ -		\$ -	
Flared End Section (FES) RCP Size = 18" <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 245.00	=	\$ 245.00		\$ 245.00	
Flared End Section (FES) CSP Size = 36" <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 775.00	=	\$ 775.00		\$ 775.00	
End Treatment- 66" Headwall	1	EA	\$ 15,000.00	=	\$ 15,000.00		\$ 15,000.00	
End Treatment- Wingwall		EA		=	\$ -		\$ -	
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -	
Curb Inlet (Type R) L=5', Depth < 5'	1	EA	\$ 5,542.00	=	\$ 5,542.00		\$ 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'	2	EA	\$ 7,627.00	=	\$ 15,254.00		\$ 15,254.00	
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'	8	EA	\$ 9,918.00	=	\$ 79,344.00		\$ 79,344.00	
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), Depth < 5'	1	EA	\$ 4,640.00	=	\$ 4,640.00		\$ 4,640.00	
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	=	\$ -		\$ -	
Storm Sewer Manhole, Box Base		EA	\$ 11,627.00	=	\$ -		\$ -	
Storm Sewer Manhole, Slab Base	13	EA	\$ 6,395.00	=	\$ 83,135.00		\$ 83,135.00	
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -	
Rip Rap, Type L	27	Tons	\$ 50.00	=	\$ 1,350.00		\$ 1,350.00	
Rip Rap, Type M	384	Tons	\$ 65.00	=	\$ 24,960.00		\$ 24,960.00	
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				=	\$ -		\$ -	
Curb Inlet (Type R) L=20'	2	EA	\$ 8,000.00	=	\$ 16,000.00		\$ 16,000.00	
<i>Underdrain ROW Mitigation Contingency</i>	23	EA	\$ 3,000.00	=	\$ 69,000.00		\$ 69,000.00	
Section 2 Subtotal					=	\$ 3,578,841.00		\$ 3,578,841.00

* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

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						% 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"	11,134	LF	\$ 64.00	=	\$ 712,576.00		\$ 712,576.00	
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -	
Gate Valves, 8"	30	EA	\$ 1,858.00	=	\$ 55,740.00		\$ 55,740.00	
Fire Hydrant Assembly, w/ all valves	32	EA	\$ 6,597.00	=	\$ 211,104.00		\$ 211,104.00	
Water Service Line Installation, inc. tap and valves	210	EA	\$ 1,324.00	=	\$ 278,040.00		\$ 278,040.00	
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"	10,406	LF	\$ 64.00	=	\$ 665,984.00		\$ 665,984.00	
Sanitary Sewer Manhole, Depth < 15 feet	32	EA	\$ 4,386.00	=	\$ 140,352.00		\$ 140,352.00	
Sanitary Service Line Installation, complete	210	EA	\$ 1,402.00	=	\$ 294,420.00		\$ 294,420.00	
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 Subtotal	= \$ 2,358,216.00		\$ 2,358,216.00


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

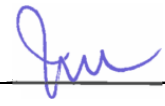
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Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	\$ 1,500.00	= \$ 1,500.00		\$ 1,500.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 1,500.00	= \$ 1,500.00		\$ 1,500.00
Total Construction Financial Assurance						\$ 6,383,323.75
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 6,383,323.75
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance						\$ 768,094.40
(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) <div style="text-align: right; margin-top: 10px;">  </div>	9-20-21 Date
Approved by Owner / Applicant	APPROVED Engineering Department <small>09/21/2021 6:31:18 PM</small> <small>dsdnijkamp</small> EPC Planning & Community Development Department
Approved by El Paso County Engineer / ECM Administrator	