

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

Updated: 12/22/2020

PROJECT INFORMATION		
Trails at Aspen Ridge Filing No. 3	8/17/2021	SF-21-022
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		CY	\$ 2.50	=	\$ -		\$ -
greater than 200,000; \$500,000 min	380,243	CY	\$ 2.00	=	\$ 760,486.00		\$ 760,486.00
* Permanent Seeding (inc. noxious weed mgmnt.)		AC	\$ 828.00	=	\$ -		\$ -
* Mulching		AC	\$ 777.00	=	\$ -		\$ -
* Permanent Erosion Control Blanket		SY	\$ 6.00	=	\$ -		\$ -
* Permanent Pond/BMP Construction		CY	\$ 21.00	=	\$ -		\$ -
* Permanent Pond/BMP (provide engineer's estimate)	1	EA	\$ 25,000.00	=	\$ 25,000.00		\$ 25,000.00
* Permanent Pond/BMP (Outlet Structure - Micropool)	1	EA	\$ 15,000.00	=	\$ 15,000.00		\$ 15,000.00
* Permanent Pond/BMP (Forebay)	2	EA	\$ 25,000.00	=	\$ 50,000.00		\$ 50,000.00
* Permanent Pond/BMP (Concrete Low Flow Channel)	70	CY	\$ 570.00	=	\$ 39,900.00		\$ 39,900.00
* Permanent Pond/BMP Rip Rap (d50 size from 6" to 24")	420	Tons	\$ 83.00	=	\$ 34,860.00		\$ 34,860.00
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -
Temporary Erosion Control Blanket	18,968	SY	\$ 3.00	=	\$ 56,905.29		\$ 56,905.29
Vehicle Tracking Control	0	EA	\$ 2,453.00	=	\$ -		\$ -
Silt Fence	3,213	LF	\$ 2.60	=	\$ 8,353.80		\$ 8,353.80
Temporary Seeding		AC	\$ 650.00	=	\$ -		\$ -
Temporary Mulch		AC	\$ 777.00	=	\$ -		\$ -
Erosion Bales		EA	\$ 26.00	=	\$ -		\$ -
Erosion Logs/Straw Waddle	17,823	LF	\$ 5.00	=	\$ 89,115.00		\$ 89,115.00
Rock Check Dams		EA	\$ 518.00	=	\$ -		\$ -
Inlet Protection	18	EA	\$ 173.00	=	\$ 3,114.00		\$ 3,114.00
Sediment Basin	5	EA	\$ 1,824.00	=	\$ 9,120.00		\$ 9,120.00
Concrete Washout Basin	1	EA	\$ 932.00	=	\$ 932.00		\$ 932.00
Outlet Protection	3	EA	\$ 200.00	=	\$ 600.00		\$ 600.00
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
MAINTENANCE (35% of Construction BMPs)					=	\$ 58,849.03	\$ 58,849.03
Section 1 Subtotal					=	\$ 1,152,235.12	\$ 1,152,235.12

* - 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 2 - PUBLIC IMPROVEMENTS *							
ROADWAY IMPROVEMENTS							
Construction Traffic Control		LS		=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 29.00	=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)	4,580	CY	\$ 52.00	=	\$ 238,160.00		\$ 238,160.00
Asphalt Pavement (3" thick)		SY	\$ 14.50	=	\$ -		\$ -
Asphalt Pavement (4" thick)	20,611	SY	\$ 20.00	=	\$ 412,220.00		\$ 412,220.00
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	12	EA	\$ 311.00	=	\$ 3,732.00		\$ 3,732.00
Guide/Street Name Sign	26	EA	\$ 250.00	=	\$ 6,500.00		\$ 6,500.00
Epoxy Pavement Marking		SF	\$ 14.00	=	\$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 24.00	=	\$ -		\$ -
Barricade - Type 3	8	EA	\$ 207.00	=	\$ 1,656.00		\$ 1,656.00
Delineator - Type I		EA	\$ 25.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	2,381	LF	\$ 31.00	=	\$ 73,811.00		\$ 73,811.00
Curb and Gutter, Type B (Median)		LF	\$ 31.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)	9,225	LF	\$ 31.00	=	\$ 285,975.00		\$ 285,975.00
4" Sidewalk (common areas only)		SY	\$ 50.00	=	\$ -		\$ -
5" Sidewalk	6,489	SY	\$ 62.00	=	\$ 402,304.22		\$ 402,304.22
6" Sidewalk		SY	\$ 75.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 99.00	=	\$ -		\$ -
Pedestrian Ramp	45	EA	\$ 1,190.00	=	\$ 53,550.00		\$ 53,550.00
Cross Pan, local (8" thick, 6' wide to include return)	225	LF	\$ 63.00	=	\$ 14,175.00		\$ 14,175.00
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	=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -

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8/17/2021

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Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (30W x 19H)	743	LF	\$ 150.00	=	\$ 111,450.00		\$ 111,450.00
18" Reinforced Concrete Pipe	1,398	LF	\$ 67.00	=	\$ 93,666.00		\$ 93,666.00
24" Reinforced Concrete Pipe	419	LF	\$ 81.00	=	\$ 33,939.00		\$ 33,939.00
30" Reinforced Concrete Pipe		LF	\$ 100.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe	202	LF	\$ 124.00	=	\$ 25,048.00		\$ 25,048.00
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	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 393.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 87.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 99.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 126.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 152.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 174.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 184.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 269.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 290.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 352.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 414.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 476.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 569.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = <small>(unit cost = 6x pipe unit cost)</small>		EA		=	\$ -		\$ -
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	\$ 5,736.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	6	EA	\$ 7,440.00	=	\$ 44,640.00		\$ 44,640.00
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'	11	EA	\$ 8,136.00	=	\$ 89,496.00		\$ 89,496.00
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'	1	EA	\$ 4,802.00	=	\$ 4,802.00		\$ 4,802.00
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,932.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base	12	EA	\$ 12,034.00	=	\$ 144,408.00		\$ 144,408.00
Storm Sewer Manhole, Slab Base	12	EA	\$ 6,619.00	=	\$ 79,428.00		\$ 79,428.00
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 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	\$ 1,520.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
30"x19" HERCP	38	LF	\$ 150.00	=	\$ 5,766.00		\$ 5,766.00
38"x24" HERCP	315	LF	\$ 200.00	=	\$ 63,014.00		\$ 63,014.00
45"x29" HERCP	167	LF	\$ 250.00	=	\$ 41,675.00		\$ 41,675.00
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
Section 2 Subtotal					=	\$ 2,229,415.22	\$ 2,229,415.22

* - 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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Project Name			Date		PCD File No.		
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**							
ROADWAY IMPROVEMENTS							
5" Sidewalk	272	SY	\$ 62.00	=	\$ 16,864.00		\$ 16,864.00
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	7,605	LF	\$ 66.00	=	\$ 501,930.00		\$ 501,930.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 78.00	=	\$ -		\$ -
Gate Valves, 8"	25	EA	\$ 1,923.00	=	\$ 48,075.00		\$ 48,075.00
Fire Hydrant Assembly, w/ all valves	13	EA	\$ 6,828.00	=	\$ 88,764.00		\$ 88,764.00
Water Service Line Installation, inc. tap and valves	198	EA	\$ 1,370.00	=	\$ 271,260.00		\$ 271,260.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
Pumphouse	1	EA	\$ 600,000.00	=	\$ 600,000.00		\$ 600,000.00
Water Main Pipe (PVC), Size 12"	1,441	LF	\$ 80.00	=	\$ 115,280.00		\$ 115,280.00
Gate Valves, 12"	8	EA	\$ 2,500.00	=	\$ 20,000.00		\$ 20,000.00
Water Main Pipe (PVC), Size 16"	1,044	LF	\$ 95.00	=	\$ 99,180.00		\$ 99,180.00
Gate Valves, 16"	3	EA	\$ 3,000.00	=	\$ 9,000.00		\$ 9,000.00
16" ARV	1	EA	\$ 10,000.00	=	\$ 10,000.00		\$ 10,000.00
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS							
Sewer Main Pipe (PVC), Size 8"	6,045	LF	\$ 66.00	=	\$ 398,970.00		\$ 398,970.00
Sanitary Sewer Manhole, Depth < 15 feet	23	EA	\$ 4,540.00	=	\$ 104,420.00		\$ 104,420.00
Sanitary Service Line Installation, complete	198	EA	\$ 1,451.00	=	\$ 287,298.00		\$ 287,298.00
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)							
Deciduous Trees	25	EA	\$ 400.00	=	\$ 10,000.00		\$ 10,000.00
Evergreen Trees	38	EA	\$ 400.00	=	\$ 15,200.00		\$ 15,200.00
Ornamental Trees	40	EA	\$ 325.00	=	\$ 13,000.00		\$ 13,000.00
Soil Amendments	201,100	SF	\$ 0.50	=	\$ 100,550.00		\$ 100,550.00
Sod	4,600	SF	\$ 0.50	=	\$ 2,300.00		\$ 2,300.00
Native Seed	187,000	SF	\$ 0.60	=	\$ 112,200.00		\$ 112,200.00
1 1/2" Rock	9,500	SF	\$ 0.75	=	\$ 7,125.00		\$ 7,125.00
Steel Edge	420	LF	\$ 3.00	=	\$ 1,260.00		\$ 1,260.00
Weed Barrier Fabric	9,500	SF	\$ 0.25	=	\$ 2,375.00		\$ 2,375.00
Irrigation	191,600	SF	\$ 1.00	=	\$ 191,600.00		\$ 191,600.00
** - Section 3 is not subject to defect warranty requirements							
Section 3 Subtotal				=	\$ 3,026,651.00		\$ 3,026,651.00
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	\$ 15,000.00	=	\$ 15,000.00		\$ 15,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 7,000.00	=	\$ 7,000.00		\$ 7,000.00
Total Construction Financial Assurance						\$ 6,430,301.34	
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 6,430,301.34	
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance						\$ 602,980.24	
(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)							

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					% Complete	Remaining

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