

update the items and quantities accordingly per comments on the GEC plan.

There are 13 inlet protections shown on the GEC plan. Please revise.

Please revise the File No. to SF1927

2019 Financial Assurance Estimate Form
(With Construction)

FAE revised accordingly

Revised

Updated: 7/16/2019

Revised

PROJECT INFORMATION			
The Trails at Aspen Ridge Filing No. 2	11/6/2019	\$ 389,310.00	PUDSP-191
Project Name	Date		PCD File No.

Description	Quantity	Units	Unit Cost	Total	% 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	210,000	CY	\$ 2.00	= \$ 500,000.00		\$ 500,000.00
* Permanent Seeding (inc. noxious weed mgmnt.)		AC	\$ 800.00	= \$ -		\$ -
* Mulching		AC	\$ 750.00	= \$ -		\$ -
* Permanent Erosion Control Blanket		SY	\$ 6.00	= \$ -		\$ -
* Permanent Pond/BMP Construction		CY	\$ 20.00	= \$ -		\$ -
* Permanent Pond/BMP (Spillway)		EA		= \$ -		\$ -
* Permanent Pond/BMP (Outlet Structure)		EA		= \$ -		\$ -
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Temporary Erosion Control Blanket	11,050	SY	\$ 3.00	= \$ 33,150.00		\$ 33,150.00
Vehicle Tracking Control	4	EA	\$ 2,370.00	= \$ 9,480.00		\$ 9,480.00
Silt Fence	6,700	LF	\$ 2.50	= \$ 16,750.00		\$ 16,750.00
Temporary Seeding	0	AC	\$ 628.00	= \$ -		\$ -
Temporary Mulch	0	AC	\$ 750.00	= \$ -		\$ -
Erosion Bales	0	EA	\$ 25.00	= \$ -		\$ -
Erosion Logs/Straw Waddle	12,450	LF	\$ 5.00	= \$ 62,250.00		\$ 62,250.00
Rock Check Dams	0	EA	\$ 500.00	= \$ -		\$ -
Inlet Protection	11	EA	\$ 167.00	= \$ 1,837.00		\$ 1,837.00
Sediment Basin	0	EA	\$ 1,762.00	= \$ -		\$ -
Concrete Washout Basin	0	EA	\$ 900.00	= \$ -		\$ -
<i>(insert items not listed but part of construction plans)</i>						
MAINTENANCE (35% of Construction BMPs)				= \$ 43,213.45		\$ 43,213.45
Section 1 Subtotal				= \$ 666,680.45		\$ 666,680.45

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

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)	3,088	CY	\$ 50.00	= \$ 154,416.00		\$ 154,416.00
Asphalt Pavement (3" thick)		SY	\$ 14.00	= \$ -		\$ -
Asphalt Pavement (4" thick)	13,897	SY	\$ 19.00	= \$ 264,051.17		\$ 264,051.17
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		EA	\$ 300.00	= \$ -		\$ -
Guide/Street Name Sign	32	EA		= \$ -		\$ -
Epoxy Pavement Marking	96	SF	\$ 13.00	= \$ 1,248.00		\$ 1,248.00
Thermoplastic Pavement Marking		SF	\$ 23.00	= \$ -		\$ -
Barricade - Type 3	12	EA	\$ 200.00	= \$ 2,400.00		\$ 2,400.00
Delineator - Type I		EA	\$ 24.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	2,057	LF	\$ 30.00	= \$ 61,705.50		\$ 61,705.50
Curb and Gutter, Type B (Median)		LF	\$ 30.00	= \$ -		\$ -
Curb and Gutter, Type C (Ramp)	6,184	LF	\$ 30.00	= \$ 185,522.40		\$ 185,522.40
4" Sidewalk (common areas only)	1,619	SY	\$ 48.00	= \$ 77,704.80		\$ 77,704.80
5" Sidewalk	0	SY	\$ 60.00	= \$ -		\$ -
6" Sidewalk	3,240	SY	\$ 72.00	= \$ 233,312.40		\$ 233,312.40
8" Sidewalk		SY	\$ 96.00	= \$ -		\$ -
Pedestrian Ramp	37	EA	\$ 1,150.00	= \$ 42,550.00		\$ 42,550.00
Cross Pan, local (8" thick, 6' wide to include return)	292	LF	\$ 61.00	= \$ 17,781.50		\$ 17,781.50
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, 8' 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	= \$ -		\$ -

Please separate the regulatory and guide/street signs accordingly.

Revised

Provide a cost for the Guide/street signs

Provided

These quantities do not match what is listed on page 28 of the drainage report. Please ensure that the quantities and types of facilities are consistent between the FAE, drainage report and CD's.

All quantities have been revised to be consistent between FAE, drainage report and CDs.

PROJECT INFORMATION

The Trails at Aspen Ridge Filing No. 2 **11/6/2019**
Project Name **Date**

Description	Quantity	Units	Unit Cost				(with Pre-Plat Construction)	
<i>[insert items not listed but part of construction plans]</i>								
STORM DRAIN IMPROVEMENTS								
Concrete Box Culvert (M Standard), Size (W x H)	0	LF		=	\$			
18" Reinforced Concrete Pipe	512	LF	\$ 65.00	=	\$	33,277.53	\$	33,277.53 *
24" Reinforced Concrete Pipe	440	LF	\$ 78.00	=	\$	34,300.89	\$	34,300.89 *
30" Reinforced Concrete Pipe	0	LF	\$ 97.00	=	\$	-	\$	- *
36" Reinforced Concrete Pipe	505	LF	\$ 120.00	=	\$	60,624.00	\$	60,624.00 *
42" Reinforced Concrete Pipe	240	LF	\$ 160.00	=	\$	38,366.40	\$	38,366.40 *
48" Reinforced Concrete Pipe	98	LF	\$ 195.00	=	\$	19,203.99	\$	19,203.99 *
54" Reinforced Concrete Pipe	0	LF	\$ 245.00	=	\$	-	\$	- *
60" Reinforced Concrete Pipe	0	LF	\$ 288.00	=	\$	-	\$	- *
66" Reinforced Concrete Pipe	0	LF	\$ 332.00	=	\$	-	\$	- *
72" Reinforced Concrete Pipe	0	LF	\$ 380.00	=	\$	-	\$	- *
18" Corrugated Steel Pipe	0	LF	\$ 84.00	=	\$	-	\$	- *
24" Corrugated Steel Pipe	0	LF	\$ 96.00	=	\$	-	\$	- *
30" Corrugated Steel Pipe	0	LF	\$ 122.00	=	\$	-	\$	- *
36" Corrugated Steel Pipe	0	LF	\$ 147.00	=	\$	-	\$	- *
42" Corrugated Steel Pipe	0	LF	\$ 168.00	=	\$	-	\$	- *
48" Corrugated Steel Pipe	0	LF	\$ 178.00	=	\$	-	\$	- *
54" Corrugated Steel Pipe	0	LF	\$ 260.00	=	\$	-	\$	- *
60" Corrugated Steel Pipe	0	LF	\$ 280.00	=	\$	-	\$	- *
66" Corrugated Steel Pipe	0	LF	\$ 340.00	=	\$	-	\$	- *
72" Corrugated Steel Pipe	0	LF	\$ 400.00	=	\$	-	\$	- *
78" Corrugated Steel Pipe	0	LF	\$ 460.00	=	\$	-	\$	- *
84" Corrugated Steel Pipe	0	LF	\$ 550.00	=	\$	-	\$	- *
Flared End Section (FES) RCP Size = 36" <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 720.00	=	\$	720.00	\$	720.00 *
Flared End Section (FES) CSP Size = <i>(unit cost = 6x pipe unit cost)</i>	0	EA		=	\$	-	\$	- *
End Treatment- Headwall	0	EA		=	\$	-	\$	- *
End Treatment- Wingwall	0	EA		=	\$	-	\$	- *
End Treatment - Cutoff Wall	0	EA		=	\$	-	\$	- *
Curb Inlet (Type R) L=5', Depth < 5'	2	EA	\$ 5,542.00	=	\$	11,084.00	\$	11,084.00 *
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	0	EA	\$ 7,188.00	=	\$	-	\$	- *
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'	0	EA	\$ 8,345.00	=	\$	-	\$	- *
Curb Inlet (Type R) L =10', Depth < 5'	8	EA	\$ 7,627.00	=	\$	61,016.00	\$	61,016.00 *
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'	2	EA	\$ 7,861.00	=	\$	15,722.00	\$	15,722.00 *
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'	0	EA	\$ 9,841.00	=	\$	-	\$	- *
Curb Inlet (Type R) L =15', Depth < 5'	0	EA	\$ 9,918.00	=	\$	-	\$	- *
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'	0	EA	\$ 10,633.00	=	\$	-	\$	- *
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'	0	EA	\$ 11,627.00	=	\$	-	\$	- *
Curb Inlet (Type R) L =20', Depth < 5'	0	EA	\$ 10,570.00	=	\$	-	\$	- *
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'	0	EA	\$ 11,667.00	=	\$	-	\$	- *
Grated Inlet (Type C), Depth < 5'	0	EA	\$ 4,640.00	=	\$	-	\$	- *
Grated Inlet (Type D), Depth < 5'	0	EA	\$ 5,731.00	=	\$	-	\$	- *
Storm Sewer Manhole, Box Base	5	EA	\$ 11,627.00	=	\$	58,135.00	\$	58,135.00 *
Storm Sewer Manhole, Slab Base	5	EA	\$ 6,395.00	=	\$	31,975.00	\$	31,975.00 *
Geotextile (Erosion Control)	0	SY	\$ 6.00	=	\$	-	\$	- *
Rip Rap, d50 size from 6" to 24"	0	Tons	\$ 80.00	=	\$	-	\$	- *
Rip Rap, Grouted	0	Tons	\$ 95.00	=	\$	-	\$	- *
Drainage Channel Construction, Size (W x H)	0	LF		=	\$	-	\$	- *
Drainage Channel Lining, Concrete	0	CY	\$ 570.00	=	\$	-	\$	- *
Drainage Channel Lining, Rip Rap	0	CY	\$ 112.00	=	\$	-	\$	- *
Drainage Channel Lining, Grass	0	AC	\$ 1,469.00	=	\$	-	\$	- *
Drainage Channel Lining, Other Stabilization	0			=	\$	-	\$	- *
<i>[insert items not listed but part of construction plans]</i>								
				=	\$		\$	
Section 2 Subtotal				=	\$	1,405,116.58	\$	1,405,116.58

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

- Include the following under Section 3:
- sidewalk within the tracts maintained by the District
 - Private Roads (Asphalt, curbs)
 - Inlets, MHs, & Storm Drain within the private roads

The Trails at Aspen Ridge Filing No. 2		UDSP-191	
Project Name	Date	PCD File No.	

Description	Quantity	Unit	Rate	=	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"	4,213	LF	\$ 64.00	=	\$ 269,632.00		\$ 269,632.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -
Gate Valves, 8"	23	EA	\$ 1,858.00	=	\$ 42,734.00		\$ 42,734.00
Fire Hydrant Assembly, w/ all valves	9	EA	\$ 6,597.00	=	\$ 59,373.00		\$ 59,373.00
Water Service Line Installation, inc. tap and valves	98	EA	\$ 1,324.00	=	\$ 129,752.00		\$ 129,752.00
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"	3,280	LF	\$ 64.00	=	\$ 209,920.00		\$ 209,920.00
Sanitary Sewer Manhole, Depth < 15 feet	11	EA	\$ 4,386.00	=	\$ 48,246.00		\$ 48,246.00
Sanitary Service Line Installation, complete	98	EA	\$ 1,402.00	=	\$ 137,396.00		\$ 137,396.00
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					=	\$ 897,053.00	\$ 897,053.00

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

this is a PUD so landscaping is required. Please include in FAE

Costs within this spreadsheet are for public improvements. Landscape costs within Filing 2 are privately owned and maintained by the Metro District.

Please provide a value for this item

Per Filing 2 FDR, the pond for the overall development is to be constructed with Filing 1 and the development of Filing 2 does not warrant modifications to the design proposed with the Filing 1 plans. Filing 2 does not contain any proposed permanent BMPS or ponds.

PROJECT INFORMATION			
The Trails at Aspen Ridge Filing No. 2		11/6/2	
Project Name		Date	
Description	Quantity	Units	Unit Cost
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	= \$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	= \$ -
Total Construction Financial Assurance			\$ 2,968,850.03
(Sum of all section subtotals plus as-builts and pond/BMP certification)			
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)			\$ 2,968,850.03
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)			
Total Defect Warranty Financial Assurance			\$ 381,023.32
(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.

WILL BE SIGNED PRIOR TO APPROVAL

 Engineer (P.E. Seal Required)

WILL BE SIGNED PRIOR TO APPROVAL

 Approved by Owner / Applicant

 Date

 Approved by El Paso County Engineer / ECM Administrator

 Date