

Please use latest 2023 form
<https://planningdevelopment.elpasoco.com/planning-development-forms/#1584029763943-19bc4c03-3586>

In Section 1, consider need for Surface Roughening to temporary stabilize the site prior to the temp seed starting to grow

Villas at Aspen Trails

Total Construction Estimate

Value inputted for "Permanent Pond/BMP (provide engineer's estimate)" should match the total value shown in the Engineer's Cost Estimate for the PBMP in the FDR.

Project Information: Villas at Aspen Trails

Project Name: Villas at Aspen Trails 7/17/2023
Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units	Price	% Complete	Remaining
Earthwork*	3,299.76	CY @	\$5	\$16,498.80	\$16,498.80 *
Permanent Seeding* (inc. noxious weed mgmnt.)	2.46	AC @	\$582	\$1,431.72	\$1,431.72 *
Mulching*		AC @	\$507	\$	\$ - *
Permanent Erosion Control Blanket*		SY @	\$6	\$	\$ - *
Temporary Erosion Control Blanket		SY @	\$3	\$	\$ -
Vehicle Tracking Control	1.00	EA @	\$1,625	\$1,625.00	\$1,625.00
Safety Fence	958.00	LF @	\$3	\$2,874.00	\$2,874.00
Silt Fence	958.00	LF @	\$4	\$3,832.00	\$3,832.00
Temporary Seeding	2.46	AC @	\$485	\$1,193.10	\$1,193.10
Temporary Mulch		AC @	\$507	\$	\$ -
Erosion Bales		EA @	\$21	\$	\$ -
Erosion Logs		LF @	\$6	\$	\$ -
Rock Ditch Checks		EA @	\$	\$	\$ -
Inlet Protection	2.00	EA @	\$153	\$306.00	\$306.00
Sediment Basin		EA @	\$1,625	\$	\$ -
Concrete Washout Basin		EA @	\$776	\$	\$ -
		@	\$	\$	\$ -
* Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to preliminary acceptance process.					
Section 1 Subtotal				\$27,760.62	\$27,760.62

Plans show closer to ~1500LF. Revise to remove discrepancy.

Site is 4.26ac. Why doesn't whole site need temp seeding.

add quantity.

Section 2 - Public Improvements**	Quantity	Units	Price	% Complete	Remaining
- Roadway Improvements					
Concrete Sidewalk		SY @	\$38	\$	\$ -
Construction Traffic Control		LS @	\$7,500	\$	\$ - *
Aggregate Base Course	867.56	Tons @	\$18	\$15,616.15	\$15,616.15 *
Asphalt Pavement	688.26	Tons @	\$65	\$44,736.71	\$44,736.71 *
Raised Median, Paved		SF @	\$7	\$	\$ - *
Electrical Conduit, Size =		LF @	\$14	\$	\$ - *
Traffic Signal, complete intersection		EA @	\$250,000	\$	\$ - *
Regulatory Sign		EA @	\$100	\$	\$ - *
Advisory Sign		EA @	\$100	\$	\$ - *
Guide/Street Name Sign		EA @	\$	\$	\$ - *
Epoxy Pavement Marking		SF @	\$12	\$	\$ - *
Thermoplastic Pavement Marking		SF @	\$22	\$	\$ - *
Barricade - Type 3		EA @	\$115	\$	\$ - *
Delineator (Type I)		EA @	\$21	\$	\$ - *
Curb and Gutter, Type C (Ramp)	3,917.05	LF @	\$21	\$82,258.00	\$82,258.00 *
Curb and Gutter, Type A (6" Vertical)	1,066.55	LF @	\$16	\$17,064.78	\$17,064.78 *
Curb and Gutter, Type B (Median)		LF @	\$13	\$	\$ - *
Pedestrian Ramp		SY @	\$108	\$	\$ - *
Cross Pan	195.67	SY @	\$53	\$10,370.56	\$10,370.56 *
Curb Chase		EA @	\$1,300	\$	\$ - *
Guardrail Type 3 (W-Beam)		LF @	\$18	\$	\$ - *
Guardrail Type 7 (Concrete)		LF @	\$67	\$	\$ - *
Guardrail End Anchorage		EA @	\$1,978	\$	\$ - *
Guardrail Impact Attenuator		EA @	\$3,564	\$	\$ - *
Sound Barrier Fence		LF @	\$100	\$	\$ - *

F&E should only include items being done under the Early Grading. Roadway items will be under a F&E with the Final Plat

- Storm Drain Improvements								
Concrete Box Culvert (M Standard), Size (W x H)			LF	@	\$	=	\$	\$ - *
Reinforced Concrete Pipe (RCP)	Size		LF	@	\$	=	\$	\$ - *
18" Reinforced Concrete Pipe		171.00	LF	@	\$ 69	=	\$ 11,799.00	\$ 11,799.00 *
24" Reinforced Concrete Pipe			LF	@	\$ 84	=	\$	\$ - *
30" Reinforced Concrete Pipe			LF	@	\$ 94	=	\$	\$ - *
36" Reinforced Concrete Pipe			LF	@	\$ 124	=	\$	\$ - *
42" Reinforced Concrete Pipe			LF	@	\$ 134	=	\$	\$ - *
48" Reinforced Concrete Pipe			LF	@	\$ 178	=	\$	\$ - *
54" Reinforced Concrete Pipe			LF	@	\$ 182	=	\$	\$ - *
60" Reinforced Concrete Pipe			LF	@	\$ 216	=	\$	\$ - *
66" Reinforced Concrete Pipe			LF	@	\$ 263	=	\$	\$ - *
72" Reinforced Concrete Pipe			LF	@	\$ 283	=	\$	\$ - *
Corrugated Steel Pipe (CSP)	Size		LF	@	\$	=	\$	\$ - *
18" Corrugated Steel Pipe			LF	@	\$ 66	=	\$	\$ - *
24" Corrugated Steel Pipe			LF	@	\$ 96	=	\$	\$ - *
30" Corrugated Steel Pipe			LF	@	\$ 101	=	\$	\$ - *
36" Corrugated Steel Pipe			LF	@	\$ 136	=	\$	\$ - *
42" Corrugated Steel Pipe			LF	@	\$ 147	=	\$	\$ - *
48" Corrugated Steel Pipe			LF	@	\$ 169	=	\$	\$ - *
54" Corrugated Steel Pipe			LF	@	\$ 193	=	\$	\$ - *
60" Corrugated Steel Pipe			LF	@	\$ 227	=	\$	\$ - *
66" Corrugated Steel Pipe			LF	@	\$ 278	=	\$	\$ - *
72" Corrugated Steel Pipe			LF	@	\$ 330	=	\$	\$ - *
78" Corrugated Steel Pipe			LF	@	\$ 381	=	\$	\$ - *
84" Corrugated Steel Pipe			LF	@	\$ 432	=	\$	\$ - *
Flared End Section (FES) RCP	†	1.00	EA	@	\$ 950	=	\$ 950.00	\$ 950.00 *
Flared End Section (FES) CSP	†		EA	@	\$ 250	=	\$	\$ - *
End Treatment- Headwall			EA	@	\$	=	\$	\$ - *
End Treatment- Wingwall			EA	@	\$	=	\$	\$ - *
End Treatment - Cutoff Wall			EA	@	\$	=	\$	\$ - *
Curb Inlet (Type R) L=5', Depth < 5 feet		2.00	EA	@	\$ 3,791	=	\$ 7,582.00	\$ 7,582.00 *
Curb Inlet (Type R) L=5', 5'-10' Depth			EA	@	\$ 5,044	=	\$	\$ - *
Curb Inlet (Type R) L =5' , 10'-15' Depth			EA	@	\$ 6,027	=	\$	\$ - *
Curb Inlet (Type R) L =10', Depth < 5 feet			EA	@	\$ 5,528	=	\$	\$ - *
Curb Inlet (Type R) L =10' , 5'-10' Depth			EA	@	\$ 6,694	=	\$	\$ - *
Curb Inlet (Type R) L =10' , 10'-15' Depth			EA	@	\$ 7,500	=	\$	\$ - *
Curb Inlet (Type R) L =15' , Depth < 5 feet			EA	@	\$ 7,923	=	\$	\$ - *
Curb Inlet (Type R) L =15' , 5'-10' Depth			EA	@	\$ 8,000	=	\$	\$ - *
Curb Inlet (Type R) L =15' , 10'-15' Depth			EA	@	\$ 8,800	=	\$	\$ - *
Curb Inlet (Type R) L =20' , Depth < 5 feet			EA	@	\$ 8,000	=	\$	\$ - *
Curb Inlet (Type R) L =20' , 5'-10' Depth			EA	@	\$ 8,830	=	\$	\$ - *
Curb Inlet (Type R) L = ___', ___' - ___' Depth			EA	@	\$	=	\$	\$ - *
Curb Inlet (Type R) L = ___', ___' - ___' Depth			EA	@	\$	=	\$	\$ - *
Grated Inlet (Type C), < 5' deep			EA	@	\$ 3,270	=	\$	\$ - *
Grated Inlet (Type D), < 5' deep			EA	@	\$ 3,908	=	\$	\$ - *
Storm Sewer Manhole, Box Base, Depth < 15 feet			EA	@	\$ 8,592	=	\$	\$ - *
Storm Sewer Manhole, Slab Base, Depth < 15 feet			EA	@	\$ 4,575	=	\$	\$ - *
Geotextile (Erosion Control)			SY	@	\$ 5	=	\$	\$ - *
Rip Rap, d50 Size from 6" to 24"			CY	@	\$ 98	=	\$	\$ - *
Rip Rap, Grouted			CY	@	\$ 215	=	\$	\$ - *
Drainage Channel Construction, Size (W x H)			LF	@	\$	=	\$	\$ - *
Channel Lining, Concrete			CY	@	\$ 450	=	\$	\$ - *
Channel Lining, Rip Rap			CY	@	\$ 98	=	\$	\$ - *
Channel Lining, Grass			AC	@	\$ 1,287	=	\$	\$ - *
Channel Lining, Other Stabilization			SY	@	\$ 3	=	\$	\$ - *
Detention Outlet Structure			EA	@	\$ 4,000	=	\$	\$ - *
Detention Emergency Spillway			EA	@	\$ 25,000	=	\$	\$ - *
Permanent Water Quality Facility (Describe)			EA	@	\$ 8,000	=	\$	\$ - *
* Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to preliminary acceptance process. † For flared end sections, multiply pipe LF cost by 6						=	190,377.21	190,377.21 **
				Section 2 Subtotal		=	\$	

Section 3 - Common Development Improvements (Private or District)***	Quantity	Units		Price		% Complete	Remaining
- Roadway Improvements							
Bradley Road	1.00	EA	@	\$ 750,000	=	\$ 750,000.00	\$ 750,000.00
			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
- Storm Drain Improvements							
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
			@	\$	=	\$	\$ -
FES		EA	@	\$ 250	=	\$	\$ -
36" Corrugated		LF	@	\$ 136	=	\$	\$ -
Channel Rip Rap		CY	@	\$ 98	=	\$	\$ -
Permanent Water Quality		EA	@	\$ 7,500	=	\$	\$ -
- Water System Improvements							
Water Main Pipe (PVC), Size 8"		LF	@	\$ 94	=	\$	\$ -
Water Main Pipe (Ductile Iron), Size 8"	1,143.00	LF	@	\$ 137	=	\$ 156,591.00	\$ 156,591.00
Gate Valves, 8"	9.00	EA	@	\$ 1,852	=	\$ 16,668.00	\$ 16,668.00
Fire Hydrant Assembly w/ all valves	2.00	EA	@	\$ 6,430	=	\$ 12,860.00	\$ 12,860.00
Water Service Line Installation, including tap and valves	41.00	EA	@	\$ 1,253	=	\$ 51,373.00	\$ 51,373.00
Water Booster Pump Station		EA		650,000			\$ -
Offsite Bore		LF		250			\$ -
Offsite Water 12" (Phase I)		LF		105	=	\$	\$ -
Offsite Water 12" (Phase II)		LF	@	\$ 105	=	\$	\$ -
- Sanitary Sewer Improvements							
Sewer Main Pipe (PVC), Size 8"	885.00	LF	@	\$ 94	=	\$ 83,190.00	\$ 83,190.00
Sanitary Sewer Manhole, Depth < 15 feet	4.00	EA	@	\$ 4,575	=	\$ 18,300.00	\$ 18,300.00
Sanitary Service Line Installation, complete		EA	@	\$ 1,516	=	\$	\$ -
Offsite Sewer (SLB)		EA	@	\$ 94	=	\$	\$ -
Offsite Sewer (South of Fountaine)		EA	@	\$ 94	=	\$	\$ -
- Landscaping (If Applicable)							
(List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD)		EA	@	\$ 300,000	=	\$	\$ -
		EA	@	\$	=	\$	\$ -
		EA	@	\$	=	\$	\$ -
		EA	@	\$	=	\$	\$ -
		EA	@	\$	=	\$	\$ -
***items in this section are not subject to defect warranty financial assurance				Section 3 Subtotal		\$ 1,088,982.00	1,088,982.00

Financial Assurance Totals	
Engineering construction staking	\$ 2,100,000.00
Total Construction Financial Assurance	\$3,407,119.83
(Sum of all section subtotals)	
Total Remaining Construction Financial Assurance	3,407,119.83
(Sum of all section totals less credit for items complete)	
Total Defect Warranty Financial Assurance	\$41,661.55
(20% of all items identified as public improvements(*). 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 approved Construction Drawings associated with the Project.

Engineer _____ Date _____
(P.E. Seal)

Approved by Owner / Applicant _____ Date _____

Approved by El Paso County Engineer / ECM Administrator _____ Date _____

V1_Financial Assurance Forms Redlines.pdf Markup Summary

SW - Textbox (2)

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Villas at Aspen Trails
Total Construction Ec

Subject: SW - Textbox
Page Label: 1
Author: Glenn Reese - EPC Stormwater
Date: 9/26/2023 7:57:26 AM
Status:
Color: ■
Layer:
Space:

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In Section 1, consider need for Surface Roughening to temporary stabilize the site prior to the temp seed starting to grow.

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Status:
Color: ■
Layer:
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In Section 1, consider need for Surface Roughening to temporary stabilize the site prior to the temp seed starting to grow

SW - Textbox with Arrow (4)

Quantity	Units	Price	Amount
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00

Subject: SW - Textbox with Arrow
Page Label: 1
Author: Glenn Reese - EPC Stormwater
Date: 9/26/2023 7:57:26 AM
Status:
Color: ■
Layer:
Space:

Value inputted for "Permanent Pond/BMP (provide engineer's estimate)" should match the total value shown in the Engineer's Cost Estimate for the PBMP in the FDR.

Quantity	Units	Price	Amount
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00

Subject: SW - Textbox with Arrow
Page Label: 1
Author: Glenn Reese - EPC Stormwater
Date: 9/26/2023 7:57:26 AM
Status:
Color: ■
Layer:
Space:

Plans show closer to ~1500LF. Revise to remove discrepancy.

Quantity	Units	Price	Amount
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00

Subject: SW - Textbox with Arrow
Page Label: 1
Author: Glenn Reese - EPC Stormwater
Date: 9/26/2023 7:57:26 AM
Status:
Color: ■
Layer:
Space:

Site is 4.26ac. Why doesn't whole site need temp seeding.

Quantity	Units	Price	Amount
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00
1.00	sq ft	1.00	1.00

Subject: SW - Textbox with Arrow
Page Label: 1
Author: Glenn Reese - EPC Stormwater
Date: 9/26/2023 7:57:26 AM
Status:
Color: ■
Layer:
Space:

add quantity.

to defect warranty financial assurance. DO NOT MORE THAN 80% COMPLETE. A minimum of 20% is required for construction insurance.

Text Box (2)

Sound Barrier Fence

FAE should only include items being done under the Early Grading. Roadway items will be under a FAE with the Final Plat

Subject: Text Box
Page Label: 1
Author: CDurham
Date: 10/5/2023 6:12:11 PM
Status:
Color: ■
Layer:
Space:

FAE should only include items being done under the Early Grading. Roadway items will be under a FAE with the Final Plat

If utilities are being constructed under early grading request, copy of CD's needs to be submitted and address in LOI.

ig tap and valves

Subject: Text Box
Page Label: 3
Author: CDurham
Date: 10/5/2023 6:13:38 PM
Status:
Color: ■
Layer:
Space:

If utilities are being constructed under early grading request, copy of CD's needs to be submitted and address in LOI.