

include outlet structure retrofit

HRG RESPONSE: ADDED TO SECTION 3

SF2214

HRG RESPONSE: updated

2022 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 11/4/2021

PROJECT INFORMATION		
The Cottages at Mesa Ridge	Date	4/1/2022
	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	30,000	CY	\$ 3.50	=	\$ 105,000.00		\$ 105,000.00
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.)	3	AC	\$ 886.00	=	\$ 2,835.20		\$ 2,835.20
* Mulching	3	AC	\$ 831.00	=	\$ 2,659.20		\$ 2,659.20
* Permanent Erosion Control Blanket		SY	\$ 7.00	=	\$ -		\$ -
* Permanent Pond/BMP Construction		CY	\$ 22.00	=	\$ -		\$ -
* Permanent Pond/BMP (provide engineer's estimate)		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
Safety Fence	705	LF	\$ 3.00	=	\$ 2,115.00		\$ 2,115.00
Temporary Erosion Control Blanket	6,882	SY	\$ 3.00	=	\$ 20,646.00		\$ 20,646.00
Vehicle Tracking Control	1	EA	\$ 2,625.00	=	\$ 2,625.00		\$ 2,625.00
Silt Fence	2,950	LF	\$ 3.00	=	\$ 8,850.00		\$ 8,850.00
Temporary Seeding		AC	\$ 695.00	=	\$ -		\$ -
Temporary Mulch		AC	\$ 831.00	=	\$ -		\$ -
Erosion Bales		EA	\$ 28.00	=	\$ -		\$ -
Erosion Logs/Straw Wattles	2,550	LF	\$ 6.00	=	\$ 15,300.00		\$ 15,300.00
Rock Check Dams		EA	\$ 554.00	=	\$ -		\$ -
Inlet Protection	3	EA	\$ 185.00	=	\$ 555.00		\$ 555.00
Sediment Basin (temp)	1	EA	\$ 1,952.00	=	\$ 1,952.00		\$ 1,952.00
Concrete Washout Basin	1	EA	\$ 997.00	=	\$ 997.00		\$ 997.00
				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
				=	\$ 17,823.75		\$ 17,823.75
MAINTENANCE (35% of Construction BMPs)				=	\$ 17,823.75		\$ 17,823.75
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)							
Section 1 Subtotal				=	\$ 181,358.15		\$ 181,358.15

SECTION 2 - PUBLIC IMPROVEMENTS *							
ROADWAY IMPROVEMENTS							
Construction Traffic Control		LS		=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 31.00	=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 56.00	=	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 16.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 21.00	=	\$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 32.00	=	\$ -		\$ -
Asphalt Pavement (147 lbs/cf) ___" thick		Tons	\$ 97.00	=	\$ -		\$ -
Raised Median, Paved		SF	\$ 9.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign		EA	\$ 333.00	=	\$ -		\$ -
Guide/Street Name Sign		EA		=	\$ -		\$ -
Epoxy Pavement Marking		SF	\$ 15.00	=	\$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 26.00	=	\$ -		\$ -
Barricade - Type 3		EA	\$ 221.00	=	\$ -		\$ -
Delineator - Type I		EA	\$ 27.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 32.00	=	\$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 32.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 32.00	=	\$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 53.00	=	\$ -		\$ -
5" Sidewalk		SY	\$ 66.00	=	\$ -		\$ -
6" Sidewalk		SY	\$ 80.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 106.00	=	\$ -		\$ -
Pedestrian Ramp		EA	\$ 1,273.00	=	\$ -		\$ -
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 67.00	=	\$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 102.00	=	\$ -		\$ -
Curb Chase		EA	\$ 1,639.00	=	\$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 55.00	=	\$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 80.00	=	\$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,324.00	=	\$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 4,172.00	=	\$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 87.00	=	\$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 89.00	=	\$ -		\$ -
Electrical Conduit, Size =		LF	\$ 18.00	=	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 470,666	=	\$ -		\$ -

PROJECT INFORMATION

The Cottages at Mesa Ridge

Date 4/1/2022

PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe		LF	\$ 70.00	=	\$ -		\$ -
24" Reinforced Concrete Pipe		LF	\$ 83.00	=	\$ -		\$ -
30" Reinforced Concrete Pipe		LF	\$ 104.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe		LF	\$ 128.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 171.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 209.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 272.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 319.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 368.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 421.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 90.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 103.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 131.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 157.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 180.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 190.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 278.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 300.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 364.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 428.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 492.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 588.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = (unit cost = 6x pipe unit cost)		EA		=	\$ -		\$ -
Flared End Section (FES) CSP Size = (unit cost = 6x pipe unit cost)		EA		=	\$ -		\$ -
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 6,138.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,981.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 9,242.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 8,447.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 8,706.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 10,898.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 10,984.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'	1	EA	\$ 11,775.00	=	\$ 11,775.00		\$ 11,775.00
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'	1	EA	\$ 12,876.00	=	\$ 12,876.00		\$ 12,876.00
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 11,706.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 12,920.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'	1	EA	\$ 5,138.00	=	\$ 5,138.00		\$ 5,138.00
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,347.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 12,876.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base	4	EA	\$ 7,082.00	=	\$ 28,328.00		\$ 28,328.00
Geotextile (Erosion Control)		SY	\$ 7.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 89.00	=	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 105.00	=	\$ -		\$ -
Drainage Channel Construction, Size (W x H)		LF	\$ -	=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 631.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 124.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,626.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
Section 2 Subtotal					=	\$ 58,117.00	\$ 58,117.00

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

Include extension of FMIC pipe

HRG RESPONSE: ADDED TO SECTION 3

Include emergency access road

HRG RESPONSE: ADDED TO SECTION 3

PROJECT INFORMATION		
The Cottages at Mesa Ridge	Date	4/1/2022
		PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)		
						% Complete	Remaining	
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**								
ROADWAY IMPROVEMENTS								
Thermoplastic Pavement Marking	100	SF	\$ 26.00	=	\$ 2,600.00		\$ 2,600.00	
Asphalt Pavement (3" thick)	10,480	SY	\$ 16.00	=	\$ 167,673.87		\$ 167,673.87	
Aggregate Base Course (135 lbs/cf)	3,183	TON	\$ 31.00	=	\$ 98,673.00		\$ 98,673.00	
Curb and Gutter, Type A (6" Vertical)	4,504	LF	\$ 32.00	=	\$ 144,128.00		\$ 144,128.00	
Curb and Gutter, Type C (Ramp)	20	LF	\$ 32.00	=	\$ 640.00		\$ 640.00	
Pedestrian Ramp	29	EA	\$ 1,273.00	=	\$ 36,917.00		\$ 36,917.00	
4" Sidewalk (common areas only)	2,705	SY	\$ 53.00	=	\$ 143,365.00		\$ 143,365.00	
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)								
12" PVC STORM PIPE	315	LF	\$ 60.00	=	\$ 18,900.00		\$ 18,900.00	
18" RCP STORM PIPE	178	LF	\$ 70.00	=	\$ 12,460.00		\$ 12,460.00	
24" RCP STORM PIPE	214	LF	\$ 83.00	=	\$ 17,762.00		\$ 17,762.00	
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'	1	EA	\$ 11,775.00	=	\$ 11,775.00		\$ 11,775.00	
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'	1	EA	\$ 12,876.00	=	\$ 12,876.00		\$ 12,876.00	
Grated Inlet (Type C)	1	EA	\$ 5,138.00	=	\$ 5,138.00		\$ 5,138.00	
				=	\$ -		\$ -	
				=	\$ -		\$ -	
WATER SYSTEM IMPROVEMENTS								
Water Main Pipe (PVC), Size 4"	2,085	LF	\$ 60.00	=	\$ 125,100.00		\$ 125,100.00	
Water Main Pipe (PVC), Size 8"	1,075	LF	\$ 71.00	=	\$ 76,325.00		\$ 76,325.00	
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 83.00	=	\$ -		\$ -	
Gate Valves, 8"	11	EA	\$ 2,058.00	=	\$ 22,638.00		\$ 22,638.00	
Fire Hydrant Assembly, w/ all valves	4	EA	\$ 7,306.00	=	\$ 29,224.00		\$ 29,224.00	
Water Service Line Installation, inc. tap and valves	62	EA	\$ 1,466.00	=	\$ 90,892.00		\$ 90,892.00	
Water Meter Vault & Backflow	2	EA	\$ 10,000.00	=	\$ 20,000.00		\$ 20,000.00	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
SANITARY SEWER IMPROVEMENTS								
Sewer Main Pipe (PVC), Size 8"	1,515	LF	\$ 71.00	=	\$ 107,565.00		\$ 107,565.00	
Sanitary Sewer Manhole, Depth < 15 feet	13	EA	\$ 4,858.00	=	\$ 63,154.00		\$ 63,154.00	
Sanitary Service Line Installation, complete	62	EA	\$ 1,553.00	=	\$ 96,286.00		\$ 96,286.00	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)								
Deciduous/ Evergreen Trees	342	EA	\$ 470.00	=	\$ 160,740.00		\$ 160,740.00	
Deciduous/ Evergreen Shrubs	726	EA	\$ 37.00	=	\$ 26,862.00		\$ 26,862.00	
Perennials/ Grasses	1,217	EA	\$ 18.00	=	\$ 21,906.00		\$ 21,906.00	
Sod/ Seed	153,550	EA	\$ 0.55	=	\$ 84,452.50		\$ 84,452.50	
Rock/ Boulders	1	LS	\$ 63,000.00	=	\$ 63,000.00		\$ 63,000.00	
Section 3 Subtotal					=	\$ 1,661,052.37		\$ 1,661,052.37

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

this may change POST Planning Commission

Please include proposed retaining walls

HRG RESPONSE: ADDED TO SECTION 3

PROJECT INFORMATION

The Cottages at Mesa Ridge

Date 4/1/2022

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	\$ 2,000.00	=	\$ 2,000.00		\$ 2,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 1,000.00	=	\$ 1,000.00		\$ 1,000.00
Total Construction Financial Assurance						\$	1,903,527.52
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$	1,903,527.52
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance						\$	33,722.28
(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)

 Approved by Owner / Applicant

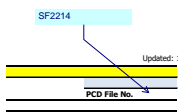
 Date

 Approved by El Paso County Engineer / ECM Administrator

 Date

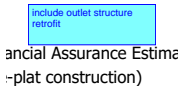
Financial Assurance Forms_v1 redline.pdf Markup Summary 5-12-2022

Daniel Torres (5)



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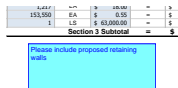
SF2214



Financial Assurance Estimate
(plat construction)

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include outlet structure retrofit



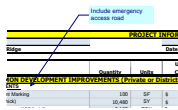
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Please include proposed retaining walls



Subject: Callout
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Author: Daniel Torres
Date: 5/11/2022 10:03:55 PM
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Include extension of FMIC pipe



Subject: Callout
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Include emergency access road

dspdparsons (1)



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this may change POST Planning Commission