

2020 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 02/28/2020

PROJECT INFORMATION			
Grandwood Ranch - Final Plat	10/2/2020	\$	389,310.00
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		CY	\$ 2.00	=	\$ -	-
* Permanent Seeding (inc. noxious weed mgmnt.)		AC	\$ 800.00	=	\$ -	-
* Mulching		AC	\$ 750.00	=	\$ -	-
* Permanent Erosion Control Blanket		SY	\$ 6.00	=	\$ -	-
* Permanent Pond/BMP Construction	4	EA	\$ 10,000.00	=	\$ 40,000.00	40,000.00
* Permanent Pond/BMP Forebay	4	EA	\$ 12,000.00	=	\$ 48,000.00	48,000.00
* Permanent Pond/BMP Concrete Trickle Channel	53	CY	\$ 570.00	=	\$ 30,210.00	30,210.00
* Permanent Pond/BMP (Spillway)	4	EA	\$ 10,000.00	=	\$ 40,000.00	40,000.00
* Permanent Pond/BMP (Outlet Structure)	4	EA	\$ 15,000.00	=	\$ 60,000.00	60,000.00
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		LF	\$ 2.50	=	\$ -	-
Temporary Seeding		AC	\$ 628.00	=	\$ -	-
Temporary Mulch		AC	\$ 750.00	=	\$ -	-
Erosion Bales		EA	\$ 25.00	=	\$ -	-
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -	-
Rock Check Dams		EA	\$ 500.00	=	\$ -	-
Inlet Protection	42	EA	\$ 167.00	=	\$ 7,014.00	7,014.00
Sediment Basin	4	EA	\$ 1,762.00	=	\$ 7,048.00	7,048.00
Concrete Washout Basin	2	EA	\$ 900.00	=	\$ 1,800.00	1,800.00
Type 3 Barricade	2	EA	\$ 200.00	=	\$ 400.00	400.00
<i>[insert items not listed but part of construction plans]</i>						
MAINTENANCE (35% of Construction BMPs)						
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)						
				Section 1 Subtotal	246,562.70	246,562.70
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)	6,361	CY	\$ 50.00	=	\$ 318,031.69	318,031.69
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -	-
Asphalt Pavement (4" thick)	28,623	SY	\$ 19.00	=	\$ 543,834.19	543,834.19
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	5	EA	\$ 300.00	=	\$ 1,500.00	1,500.00
Guide/Street Name Sign	8	EA	\$ 200.00	=	\$ 1,600.00	1,600.00
Epoxy Pavement Marking		SF	\$ 1.00	=	\$ -	-
Thermoplastic Pavement Marking		SF	\$ 1.00	=	\$ -	-
Barricade - Type 3		EA	\$ 200.00	=	\$ -	-
Delineator - Type I		EA	\$ 200.00	=	\$ -	-
Curb and Gutter, Type A (6" Vertical)	506	LF	\$ 30.00	=	\$ 15,194.22	15,194.22
Curb and Gutter, Type B (Median)		LF	\$ 30.00	=	\$ -	-
Curb and Gutter, Type C (Ramp)		LF	\$ 30.00	=	\$ -	-
4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -	-
5" Sidewalk		SY	\$ 60.00	=	\$ -	-
6" Sidewalk		SY	\$ 72.00	=	\$ -	-
8" Sidewalk		SY	\$ 96.00	=	\$ -	-
Pedestrian Ramp		EA	\$ 1,150.00	=	\$ -	-
Cross Pan, local (8" thick, 6' wide to include return)	88	LF	\$ 61.00	=	\$ 5,351.35	5,351.35
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	=	\$ -	-

provide quantities for permanent seeding & mulching & erosion control blanket

Staff recommends splitting this between the 3" thick (local & collector) and 4" thick (Hibby widening). 246,562.70

update sign quantities per comments on the construction drawings.

Pending final design

PROJECT INFORMATION			
Grandwood Ranch - Final Plat	10/2/2020	\$	389,310.00
Project Name	Date		PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
Electrical Conduit, Size =		LF	\$ 16.00	=	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 425,000	=	\$ -		\$ -

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PROJECT INFORMATION

Grandwood Ranch - Final Plat	10/2/2020	\$ 389,310.00
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	=	\$	Total	(with Pre-Plat Construction)	
							% Complete	Remaining
<i>[insert items not listed but part of construction plans]</i>				=	\$	-		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$	-		\$ -
STORM DRAIN IMPROVEMENTS								
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$	-		\$ -
15" Reinforced Concrete Pipe	283	LF	\$ 55.00	=	\$	15,565.00		\$ 15,565.00
18" Reinforced Concrete Pipe	1,836	LF	\$ 65.00	=	\$	119,340.00		\$ 119,340.00
24" Reinforced Concrete Pipe	293	LF	\$ 78.00	=	\$	22,854.00		\$ 22,854.00
30" Reinforced Concrete Pipe	96	LF	\$ 97.00	=	\$	9,312.00		\$ 9,312.00
36" Reinforced Concrete Pipe	558	LF	\$ 120.00	=	\$	66,960.00		\$ 66,960.00
42" Reinforced Concrete Pipe	405	LF	\$ 160.00	=	\$	64,800.00		\$ 64,800.00
48" Reinforced Concrete Pipe	44	LF	\$ 195.00	=	\$	8,580.00		\$ 8,580.00
54" Reinforced Concrete Pipe		LF	\$ 245.00	=	\$	-		\$ -
60" Reinforced Concrete Pipe		LF	\$ 288.00	=	\$	-		\$ -
66" Reinforced Concrete Pipe		LF	\$ 382.00	=	\$	-		\$ -
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	\$ 166.00	=	\$	-		\$ -
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 = 15" (unit cost = 6x pipe unit cost)	11	EA	\$ 330.00	=	\$	3,630.00		\$ 3,630.00
Flared End Section (FES) RCP Size = 18" (unit cost = 6x pipe unit cost)	15	EA	\$ 390.00	=	\$	5,850.00		\$ 5,850.00
Flared End Section (FES) RCP Size = 24" (unit cost = 6x pipe unit cost)	1	EA	\$ 468.00	=	\$	468.00		\$ 468.00
Flared End Section (FES) RCP Size = 30" (unit cost = 6x pipe unit cost)	2	EA	\$ 582.00	=	\$	1,164.00		\$ 1,164.00
Flared End Section (FES) CSP Size = 36" (unit cost = 6x pipe unit cost)	7	EA	\$ 720.00	=	\$	5,040.00		\$ 5,040.00
End Treatment- Headwall		EA		=	\$	-		\$ -
End Treatment- Wingwall		EA		=	\$	-		\$ -
End Treatment - Cutoff Wall		EA		=	\$	-		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 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'		EA	\$ 7,627.00	=	\$	-		\$ -
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'		EA	\$ 9,918.00	=	\$	-		\$ -
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), 5' ≤ Depth < 10'	14	EA	\$ 4,640.00	=	\$	64,960.00		\$ 64,960.00
Grated Inlet (Type D), Depth < 5'	7	EA	\$ 5,731.00	=	\$	40,117.00		\$ 40,117.00
Storm Sewer Manhole, Box Base		EA	\$ 11,627.00	=	\$	-		\$ -
Storm Sewer Manhole, Slab Base	7	EA	\$ 6,395.00	=	\$	44,765.00		\$ 44,765.00
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$	-		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 80.00	=	\$	-		\$ -
Rip Rap, Grouted		Tons	\$ 95.00	=	\$	-		\$ -
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				=	\$	-		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$	-		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$	-		\$ -
Section 2 Subtotal				=	\$	1,358,916.45		\$ 1,358,916.45

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

Update. Move pipes identified as private to section 3 and revise all 15" pipe to 18"

Revise to box base. Plans called for type I manholes.

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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

4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -	\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	=	\$ -	\$ -
Asphalt Pavement (4" thick)		SY	\$ 19.00	=	\$ -	\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 30.00	=	\$ -	\$ -

STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)

15" Reinforced Concrete Pipe		LF	\$ 55.00	=	\$ -	\$ -
18" Reinforced Concrete Pipe		LF	\$ 65.00	=	\$ -	\$ -
24" Reinforced Concrete Pipe		LF	\$ 78.00	=	\$ -	\$ -
30" Reinforced Concrete Pipe		LF	\$ 97.00	=	\$ -	\$ -
36" Reinforced Concrete Pipe		LF	\$ 120.00	=	\$ -	\$ -
42" Reinforced Concrete Pipe		LF	\$ 160.00	=	\$ -	\$ -
48" Reinforced Concrete Pipe		LF	\$ 195.00	=	\$ -	\$ -
Flared End Section (FES) RCP Size = 15" <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 330.00	=	\$ -	\$ -
Flared End Section (FES) RCP Size = 18" <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 390.00	=	\$ -	\$ -
Flared End Section (FES) RCP Size = 30" <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 582.00	=	\$ -	\$ -
Flared End Section (FES) CSP Size = 36" <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 720.00	=	\$ -	\$ -
Grated Inlet (Type C), 5' ≤ Depth < 10'		EA	\$ 4,640.00	=	\$ -	\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	=	\$ -	\$ -
Storm Sewer Manhole, Box Base		EA	\$ 11,627.00	=	\$ -	\$ -

WATER SYSTEM IMPROVEMENTS

Water Main Pipe (PVC), Size 8"		LF	\$ 64.00	=	\$ -	\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -	\$ -
Gate Valves, 8"		EA	\$ 1,858.00	=	\$ -	\$ -
Fire Hydrant Assembly, w/ all valves		EA	\$ 6,597.00	=	\$ -	\$ -
Water Service Line Installation, inc. tap and valves		EA	\$ 1,324.00	=	\$ -	\$ -
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"		LF	\$ 64.00	=	\$ -	\$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,386.00	=	\$ -	\$ -
Sanitary Service Line Installation, complete		EA	\$ 1,402.00	=	\$ -	\$ -
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 is not subject to defect warranty requirements	Section 3 Subtotal	=	\$ -		\$ -	\$ -
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Project Name	Date		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	=	\$ -		\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	=	\$ -		\$ -
Total Construction Financial Assurance					\$	1,605,479.15
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)					\$	1,605,479.15
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance					\$	315,425.29
(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

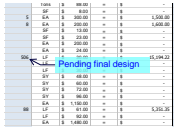
 Approved by El Paso County Engineer / ECM Administrator

 Date

 Date

Financial Assurance Forms_v1.pdf Markup Summary

Callout (7)



Item	Quantity	Unit	Price
1	1000	EA	1,000.00
2	500	EA	500.00
3	250	EA	250.00
4	125	EA	125.00
5	62.5	EA	62.50

Subject: Callout
Page Label: 1
Author: dsdlaforce
Date: 11/25/2020 11:39:26 AM
Status:
Color: ■
Layer:
Space:

Pending final design



Item	Quantity	Unit	Price
1	1000	EA	1,000.00
2	500	EA	500.00
3	250	EA	250.00
4	125	EA	125.00
5	62.5	EA	62.50

Subject: Callout
Page Label: 1
Author: dsdlaforce
Date: 11/25/2020 11:50:02 AM
Status:
Color: ■
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Staff recommends splitting this between the 3" thick (local & collector) and 4" thick (Hibby widening).



Item	Quantity	Unit	Price
1	1000	EA	1,000.00
2	500	EA	500.00
3	250	EA	250.00
4	125	EA	125.00
5	62.5	EA	62.50

Subject: Callout
Page Label: 1
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Date: 11/25/2020 11:59:11 AM
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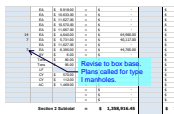
update sign quantities per comments on the construction drawings.



Item	Quantity	Unit	Price
1	1000	EA	1,000.00
2	500	EA	500.00
3	250	EA	250.00
4	125	EA	125.00
5	62.5	EA	62.50

Subject: Callout
Page Label: 2
Author: dsdlaforce
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Item	Quantity	Unit	Price
1	1000	EA	1,000.00
2	500	EA	500.00
3	250	EA	250.00
4	125	EA	125.00
5	62.5	EA	62.50

Subject: Callout
Page Label: 3
Author: dsdlaforce
Date: 11/25/2020 9:21:54 AM
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Revise to box base. Plans called for type I manholes.



Item	Quantity	Unit	Price
1	1000	EA	1,000.00
2	500	EA	500.00
3	250	EA	250.00
4	125	EA	125.00
5	62.5	EA	62.50

Subject: Callout
Page Label: 1
Author: dsdlaforce
Date: 11/27/2020 8:27:20 AM
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Color: ■
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Space:

provide quantities for permanent seeding & mulching & erosion control blanket

Subject: Callout
Page Label: 3
Author: dsdlaforce
Date: 11/27/2020 8:30:54 AM
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Update. Move pipes identified as private to section 3 and revise all 15" pipe to 18"

Cloud (2)

Subject: Cloud
Page Label: 3
Author: dsdlaforce
Date: 11/27/2020 8:30:35 AM
Status:
Color: ■
Layer:
Space:

Subject: Cloud
Page Label: 3
Author: dsdlaforce
Date: 11/27/2020 8:30:43 AM
Status:
Color: ■
Layer:
Space:

Highlight (1)

Subject: Highlight
Page Label: 1
Author: dsdlaforce
Date: 11/27/2020 8:24:00 AM
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Space: