

Please include any earthwork for the detention pond.

Please revise. There shouldn't be two separate earthwork quantities

Please provide a separate FAE for all improvements (BMPs, earthwork, basecourse, etc) to be done on settlers ranch road by Abert Ranch.

2019 Financial Assurance Estimate Form  
(with pre-plat construction)

Updated: 6/7/2019

PROJECT INFORMATION		
Abert Ranch (10 lots; 2,340 LF of roadway)	11/18/2019	SF-1911
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)		
						% Complete	Remaining	
<b>SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)</b>								
* Earthwork								
less than 1,000; \$5,300 min	500	CY	\$ 8.00	=	\$ 5,300.00		\$ 5,300.00	
1,000-5,000; \$8,000 min		CY	\$ 6.00	=	\$ -		\$ -	
5,001-20,000; \$30,000 min	15,900	CY	\$ 5.00	=	\$ 79,500.00		\$ 79,500.00	
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.)	2	AC	\$ 800.00	=	\$ 1,600.00		\$ 1,600.00	
* Mulching	2	AC	\$ 750.00	=	\$ 1,500.00		\$ 1,500.00	
* Permanent Erosion Control Blanket	2,885	SY	\$ 6.00	=	\$ 17,310.00		\$ 17,310.00	
* Permanent Pond/BMP Construction		CY	\$ 20.00	=	\$ -		\$ -	
* Permanent Pond/BMP (Spillway)	1	EA	\$ 6,000.00	=	\$ 6,000.00		\$ 6,000.00	
* Permanent Pond/BMP (Outlet Structure)	1	EA	\$ 8,000.00	=	\$ 8,000.00		\$ 8,000.00	
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -	
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -	
Vehicle Tracking Control	1	EA	\$ 2,370.00	=	\$ 2,370.00		\$ 2,370.00	
Silt Fence	600	LF	\$ 2.50	=	\$ 1,500.00		\$ 1,500.00	
Temporary Seeding	1	AC	\$ 628.00	=	\$ 628.00		\$ 628.00	
Temporary Mulch	1	AC	\$ 750.00	=	\$ 750.00		\$ 750.00	
Erosion Bales		EA	\$ 25.00	=	\$ -		\$ -	
Erosion Logs/Straw Waddle	84	LF	\$ 5.00	=	\$ 420.00		\$ 420.00	
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -	
Inlet Protection	3	EA	\$ 167.00	=	\$ 501.00		\$ 501.00	
Sediment Basin	1	EA	\$ 1,762.00	=	\$ 1,762.00		\$ 1,762.00	
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00	
(insert items not listed but part of construction plans)				=	\$ -		\$ -	
<b>MAINTENANCE (35% of Construction BMPs)</b>					=	\$ 3,090.85		\$ 3,090.85
<b>Section 1 Subtotal</b>					=	<b>\$ 131,131.85</b>		<b>\$ 131,131.85</b>

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

<b>SECTION 2 - PUBLIC IMPROVEMENTS *</b>							
<b>ROADWAY IMPROVEMENTS</b>							
Construction Traffic Control		LS	\$ 3,000.00	=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)	2,600	Tons	\$ 28.00	=	\$ 72,800.00		\$ 72,800.00
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	=	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 19.00	=	\$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 29.00	=	\$ -		\$ -
Asphalt Pavement (147 lbs/cf)	1,840	Tons	\$ 88.00	=	\$ 161,920.00		\$ 161,920.00
Raised Median, Paved		SF	\$ 8.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign	4	EA	\$ 300.00	=	\$ 1,200.00		\$ 1,200.00
Guide/Street Name Sign	2	EA	\$ 100.00	=	\$ 200.00		\$ 200.00
Epoxy Pavement Marking		SF	\$ 13.00	=	\$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 23.00	=	\$ -		\$ -
Barricade - Type 3		EA	\$ 200.00	=	\$ -		\$ -
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 30.00	=	\$ -		\$ -
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)		LF	\$ 61.00	=	\$ -		\$ -
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	=	\$ -		\$ -
Electrical Conduit, Size =		LF	\$ 16.00	=	\$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 425,000	=	\$ -		\$ -

PROJECT INFORMATION			
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Project Name	Date	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]				=	\$ -		\$ -
<b>STORM DRAIN IMPROVEMENTS</b>							
Concrete Box Culvert (M Standard), Size ( W x H )		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe	48	LF	\$ 65.00	=	\$ 3,120.00		\$ 3,120.00
24" Reinforced Concrete Pipe		LF	\$ 78.00	=	\$ -		\$ -
30" Reinforced Concrete Pipe	56	LF	\$ 97.00	=	\$ 5,432.00		\$ 5,432.00
36" Reinforced Concrete Pipe		LF	\$ 120.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe	70	LF	\$ 160.00	=	\$ 11,200.00		\$ 11,200.00
48" Reinforced Concrete Pipe		LF	\$ 195.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 245.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 288.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 332.00	=	\$ -		\$ -
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	\$ 168.00	=	\$ -		\$ -
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 = 18" <small>(unit cost = 6x pipe unit cost)</small>	2	EA	\$ 390.00	=	\$ 780.00		\$ 780.00
Flared End Section (FES) RCP Size = 30" <small>(unit cost = 6x pipe unit cost)</small>	2	EA	\$ 582.00	=	\$ 1,164.00		\$ 1,164.00
Flared End Section (FES) RCP Size = 42" <small>(unit cost = 6x pipe unit cost)</small>	2	EA	\$ 960.00	=	\$ 1,920.00		\$ 1,920.00
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	\$ 5,542.00	=	\$ -		\$ -
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), Depth < 5'		EA	\$ 4,640.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 11,627.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"	100	Tons	\$ 80.00	=	\$ 8,000.00		\$ 8,000.00
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				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
<b>Section 2 Subtotal</b>					<b>=</b>	<b>\$ 267,736.00</b>	<b>\$ 267,736.00</b>

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we need to see the off-site plan and profile or Settlers and the FAE associated with it so we can guarantee the access

PROJECT INFORMATION		
Abert Ranch (10 lots; 2,340 LF of roadway)	11/18/2019	SF-1911
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
<b>SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**</b>							
<b>ROADWAY IMPROVEMENTS</b>							
Mailbox Pad	1	EA	\$ 1,500.00	=	\$ 1,500.00		\$ 1,500.00
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>STORM DRAIN IMPROVEMENTS</b> (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
42" Reinforced Concrete Pipe	94	LF	\$ 160.00	=	\$ 15,040.00		\$ 15,040.00
Flared End Section (FES) RCP Size = 42" (unit cost = 6x pipe unit cost)	1	EA	\$ 960.00	=	\$ 960.00		\$ 960.00
Rip Rap, d50 size from 6" to 24"	100	Tons	\$ 80.00	=	\$ 8,000.00		\$ 8,000.00
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>WATER SYSTEM IMPROVEMENTS</b>							
Water Main Pipe (PVC), Size 8"		LF	\$ 40.00	=	\$ -		\$ -
Water Main Pipe (PVC), Size 12"		LF	\$ 64.00	=	\$ -		\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -
Gate Valves, 8"-12"		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>				=	\$ -		\$ -
<b>SANITARY SEWER IMPROVEMENTS</b>							
Sewer Main Pipe (PVC), Size 8"		LF	\$ 40.00	=	\$ -		\$ -
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>				=	\$ -		\$ -
<b>LANDSCAPING IMPROVEMENTS</b> (For subdivision specific condition of approval, or PUD)							
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
<b>Section 3 Subtotal</b>				=	<b>\$ 25,500.00</b>		<b>\$ 25,500.00</b>

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

**PROJECT INFORMATION**

<b>Abert Ranch (10 lots; 2,340 LF of roadway)</b>	<b>11/18/2019</b>	<b>SF-1911</b>
<b>Project Name</b>	<b>Date</b>	<b>PCD File No.</b>

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	\$ 1,500.00	=	\$	1,500.00	\$	1,500.00
<b>Total Construction Financial Assurance</b>							<b>\$</b>	<b>427,867.85</b>
(Sum of all section subtotals plus as-builts and pond/BMP certification)								
<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction)</b>							<b>\$</b>	<b>427,867.85</b>
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)								
<b>Total Defect Warranty Financial Assurance</b>							<b>\$</b>	<b>77,389.20</b>
(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

# FAE V\_2 redlines.pdf Markup Summary

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12/10/2019 11:22:04 AM (1)

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**Subject:** Cloud+  
**Page Label:** 1  
**Author:** Daniel Torres  
**Date:** 12/10/2019 11:22:04 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Please revise. There shouldn't be two separate earthwork quantities

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12/10/2019 11:24:11 AM (1)

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**Subject:** Callout  
**Page Label:** 1  
**Author:** Daniel Torres  
**Date:** 12/10/2019 11:24:11 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Please include any earthwork for the detention pond.

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12/10/2019 3:47:53 PM (1)

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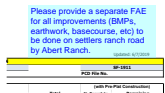
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**Page Label:** 2  
**Author:** dsdparsons  
**Date:** 12/10/2019 3:47:53 PM  
**Status:**  
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**Space:**

we need to see the off-site plan and profile or Settlers and the FAE associated with it so we can guarantee the access

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12/10/2019 3:48:43 PM (1)

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**Subject:** Text Box  
**Page Label:** 1  
**Author:** Daniel Torres  
**Date:** 12/10/2019 3:48:43 PM  
**Status:**  
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**Layer:**  
**Space:**

Please provide a separate FAE for all improvements (BMPs, earthwork, basecourse, etc) to be done on settlers ranch road by Abert Ranch.