

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

SF1844
Unresolved.

Updated: 6/7/2019

PROJECT INFORMATION		
Riverbend Development - Filing 1	8/17/2020	SP187
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		CY	\$ 20.00	\$ -	\$ -
* Permanent Pond/BMP (Spillway)		EA	\$ 51,343.00	\$ -	\$ -
* Permanent Pond/BMP (Outlet Structure)		EA	\$ 15,000.00	\$ -	\$ -
Safety Fence		LF	\$ 3.00	\$ -	\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	\$ -	\$ -
Vehicle Tracking Control		EA	\$ 2,370.00	\$ -	\$ -
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		EA	\$ 1,750.00	\$ -	\$ -
Sediment Basin		EA	\$ 300.00	\$ -	\$ -
Concrete Washout Basin		EA	\$ 300.00	\$ -	\$ -
[insert items not listed but part of construction plans]				\$ -	\$ -
MAINTENANCE (35% of Construction BMPs)				\$ -	\$ -
Section 1 Subtotal				\$ -	\$ -
SECTION 2 - PUBLIC IMPROVEMENTS *					
ROADWAY IMPROVEMENTS					
Construction Traffic Control		LS		\$ -	\$ -
Aggregate Base Course (135 lbs/cf)	667	Tons	\$ 28.00	\$ 18,676.00	\$ 18,676.00
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) 8" thick	8,416	Tons	\$ 88.00	\$ 740,528.00	\$ 740,528.00
Raised Median, Paved		SF	\$ 8.00	\$ -	\$ -
Regulatory Sign/Advisory Sign	10	EA	\$ 300.00	\$ 3,000.00	\$ 3,000.00
Guide/Street Name Sign	16	EA		\$ -	\$ -
Temporary Traffic Control	189	SF	\$ 13.00	\$ 2,457.00	\$ 2,457.00
Temporary Traffic Control		SF	\$ 23.00	\$ -	\$ -
Baricade - Type 3	3	EA	\$ 200.00	\$ 600.00	\$ 600.00
Baricade - Type 1		EA	\$ 24.00	\$ -	\$ -
Curb and Gutter, Type A (6" Vertical)	2,967	LF	\$ 30.00	\$ 89,010.00	\$ 89,010.00
Curb and Gutter, Type B (Median)		LF	\$ 30.00	\$ -	\$ -
Curb and Gutter, Type C (Ramp)	6,600	LF	\$ 30.00	\$ 198,000.00	\$ 198,000.00
4" Sidewalk (common areas only)	33,920	SY	\$ 48.00	\$ 1,628,160.00	\$ 1,628,160.00
5" Sidewalk		SY	\$ 60.00	\$ -	\$ -
6" Sidewalk		SY	\$ 72.00	\$ -	\$ -
8" Sidewalk		SY	\$ 96.00	\$ -	\$ -
Pedestrian Ramp	33	EA	\$ 1,150.00	\$ 37,950.00	\$ 37,950.00
Cross Pan, local (8" thick, 6' wide to include return)	505	LF	\$ 61.00	\$ 30,805.00	\$ 30,805.00
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 (Prestressed concrete, 6' high)		LF	\$ 80.00	\$ -	\$ -
Electric Conduit, 4" diameter, 10' long		LF	\$ 16.00	\$ -	\$ -
Electric Conduit, 6" diameter, 10' long		EA	\$ 425,000.00	\$ -	\$ -

Provide quantity for the permanend pond construction, spillway, and outlet structure.

Outlet structure cost estimate seems low.

Provide quantity for the inlet protection.

Update description to identify the assumed thickness used for calculating quantity.

Also update quantity. The value is low. There is approximately 4,800 linear feet of new internal road at 30 ft wide and 8" depth results in 6,480 tons. Note: this is a rough calculation. Design Engineer to calculate actual value.

Move sidewalk quantity to 5" thick sidewalk.

Square yard of pavement is low.

Based on rough estimate above, 4,800 lf x 30' wide asphalt is 16,000 sq yard

Update ramp. Staff counted 40.

Provide cross pan, collector quantity @ Anne/Main & Booker/Southmoor

Provide quantity for Thermoplastic Pavement. Stop bars shown on plans are thermoplastic markings.

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[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		=	\$ -		\$ -
15" Reinforced Concrete Pipe	61	LF	\$ 52.00	=	\$ 3,172.00		\$ 3,172.00
18" Reinforced Concrete Pipe	108	LF	\$ 65.00	=	\$ 7,020.00		\$ 7,020.00
24" Reinforced Concrete Pipe	1,692	LF	\$ 78.00	=	\$ 131,976.00		\$ 131,976.00
30" Reinforced Concrete Pipe	100	LF	\$ 97.00	=	\$ 9,700.00		\$ 9,700.00
36" Reinforced Concrete Pipe	210	LF	\$ 120.00	=	\$ 25,200.00		\$ 25,200.00
42" Reinforced Concrete Pipe	1,059	LF	\$ 160.00	=	\$ 169,440.00		\$ 169,440.00
48" Reinforced Concrete Pipe	484	LF	\$ 195.00	=	\$ 94,380.00		\$ 94,380.00
54" Reinforced Concrete Pipe		LF	\$ 245.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 200.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 300.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 300.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 100.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 100.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 100.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 100.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 100.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 100.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 200.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 200.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 340.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 460.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 550.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 550.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 15"	1	EA	\$ 312.00	=	\$ 312.00		\$ 312.00
Flared End Section (FES) RCP Size = 42"	1	EA	\$ 390.00	=	\$ 390.00		\$ 390.00
Flared End Section (FES) CSP Size = 48"	1	EA		=	\$ -		\$ -
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'	3	EA	\$ 5,542.00	=	\$ 16,626.00		\$ 16,626.00
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'	8	EA	\$ 7,627.00	=	\$ 61,016.00		\$ 61,016.00
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 7,861.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'	1	EA		=	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA		=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA		=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 11,627.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base	11	EA	\$ 6,395.00	=	\$ 70,345.00		\$ 70,345.00
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"	3,345	Tons	\$ 80.00	=	\$ 267,600.00		\$ 267,600.00
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]				=	\$ -		\$ -
Section 2 Subtotal				=	\$ 3,119,817.00		\$ 3,119,817.00

Update quantities.
Plans included 60"
RCP and zero 15"
RCP. Quantities will
be verified on the
resubmittal.

36" pipe for pond outlet
outfall.

Revise. The two
outfall pipes into the
forebays are 60" and
42" with Headwall
and Wingwalls, baffle
blocks and type IV
impact stilling basin

Total inlet quantity
does not match the
construction plans.
Update.

Update quantities.
Type I manholes will
be Box Base.

Channel Improvement is missing.
Will be reviewed on resubmittal.

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Project Name		Date		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							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	5,605	LF	\$ 64.00	=	\$ 358,720.00		\$ 358,720.00
Water Main Pipe (Ductile Iron), Size 8"		LF		=	\$ -		\$ -
Gate Valves, 8"	44	EA		=	\$ 81,752.00		\$ 81,752.00
Fire Hydrant Assembly, w/ all valves	10	EA		=	\$ 65,970.00		\$ 65,970.00
Water Service Line Installation, inc. tap and valves	127	EA		=	\$ 168,148.00		\$ 168,148.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS							
Sewer Main Pipe (PVC), Size 8"	6,744	LF	\$ 64.00	=	\$ 431,616.00		\$ 431,616.00
Sewer Main Pipe (PVC), Size 4" [Force Main]	1,104	LF	\$ 45.00	=	\$ 49,680.00		\$ 49,680.00
Sanitary Sewer Manhole, Depth < 15 feet	31	EA	\$ 4,386.00	=	\$ 135,966.00		\$ 135,966.00
Sanitary Service Line Installation, complete	127	EA	\$ 1,402.00	=	\$ 178,054.00		\$ 178,054.00
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)							
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
Section 3 Subtotal				=	\$ 1,469,906.00		\$ 1,469,906.00

PROJECT INFORMATION		
Riverbend Development - Filing 1	8/17/2020	SP187
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	\$ 4,589,723.00
						(Sum of all section subtotals plus as-builts and pond/BMP certification)	
						Total Remaining Construction Financial Assurance (with Pre-Plat Construction)	\$ 4,589,723.00
						(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)	
						Total Defect Warranty Financial Assurance	\$ 623,963.40
						(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)	

Provide quantities for
As-built and pond
certification

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