

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

Updated: 6/7/2019

PROJECT INFORMATION			
Riverbend - Filing 1/PREDEVELOPMENT GRADING	10/28/2020	SF184	
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	194,066	CY	\$ 2.50	=	\$ 485,165.00		\$ 485,165.00
greater than 200,000; \$500,000 min		CY	\$ 2.00	=	\$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)	4	AC	\$ 800.00	=	\$ 3,480.00		\$ 3,480.00
* Mulching	4	AC	\$ 750.00	=	\$ 3,262.50		\$ 3,262.50
* Permanent Erosion Control Blanket	3,372	SY	\$ 6.00	=	\$ 20,232.00		\$ 20,232.00
* Permanent Pond/BMP Construction	9,954	CY	\$ 20.00	=	\$ 199,080.00		\$ 199,080.00
* Permanent Pond/BMP (Spillway)	1	EA	\$ 51,343.00	=	\$ 51,343.00		\$ 51,343.00
* Permanent Pond/BMP (Outlet Structure)	1	EA	\$ 30,000.00	=	\$ 30,000.00		\$ 30,000.00
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -
Temporary Erosion Control Blanket	19,532	SY	\$ 3.00	=	\$ 58,596.00		\$ 58,596.00
Vehicle Tracking Control	1	EA	\$ 2,370.00	=	\$ 2,370.00		\$ 2,370.00
Silt Fence	4,333	LF	\$ 2.50	=	\$ 10,832.50		\$ 10,832.50
Temporary Seeding	45	AC	\$ 628.00	=	\$ 28,260.00		\$ 28,260.00
Temporary Mulch	45	AC	\$ 750.00	=	\$ 33,750.00		\$ 33,750.00
Erosion Bales		EA	\$ 25.00	=	\$ -		\$ -
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -
Inlet Protection	11	EA	\$ 167.00	=	\$ 1,837.00		\$ 1,837.00
Sediment Basin	3	EA	\$ 1,762.00	=	\$ 5,286.00		\$ 5,286.00
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
MAINTENANCE (35% of Construction BMPs)					\$ 49,641.03		\$ 49,641.03
Section 1 Subtotal					\$ 984,035.03		\$ 984,035.03
SECTION 2 - PUBLIC IMPROVEMENTS *							
ROADWAY IMPROVEMENTS							
Construction Traffic Control		LS		=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)	6,715	Tons	\$ 28.00	=	\$ 188,020.00		\$ 188,020.00
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	=	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)	16,500	SY	\$ 19.00	=	\$ 313,500.00		\$ 313,500.00
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	10	EA	\$ 300.00	=	\$ 3,000.00		\$ 3,000.00
Guide/Street Name Sign	16	EA		=	\$ -		\$ -
Epoxy Pavement Marking	472	SF	\$ 13.00	=	\$ 6,136.00		\$ 6,136.00
Thermoplastic Pavement Marking	120	SF	\$ 23.00	=	\$ 2,760.00		\$ 2,760.00
Barricade - Type 3		EA	\$ 200.00	=	\$ -		\$ -
Delineator - Type I		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)		SY	\$ 48.00	=	\$ -		\$ -
5" Sidewalk	6,263	SY	\$ 60.00	=	\$ 375,780.00		\$ 375,780.00
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)	170	LF	\$ 61.00	=	\$ 10,370.00		\$ 10,370.00
Cross Pan, collector (9" thick, 8' wide to include return)	38	LF	\$ 92.00	=	\$ 3,496.00		\$ 3,496.00
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	=	\$ -		\$ -

Update ramp.
Unresolved. See
comment on the
street construction
plans sheet 21

PROJECT INFORMATION										
Riverbend - Filing 1/PREDEVELOPMENT GRADING			10/28/2020			CF184				
Project Name										
Description	Quantity	Units								
[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		LF								
18" Reinforced Concrete Pipe	177	LF								
24" Reinforced Concrete Pipe	1,588	LF								
30" Reinforced Concrete Pipe	196	LF								
36" Reinforced Concrete Pipe		LF								
42" Reinforced Concrete Pipe	593	LF	\$	160.00	=	\$	94,880.00		\$	94,880.00
48" Reinforced Concrete Pipe	244	LF	\$	195.00	=	\$	47,580.00		\$	47,580.00
54" Reinforced Concrete Pipe		LF	\$	245.00	=	\$	-		\$	-
60" Reinforced Concrete Pipe	240	LF	\$	288.00	=	\$	69,120.00		\$	69,120.00
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 = 36 (unit cost = 6x pipe unit cost)	1	EA	\$	1,079.00	=	\$	1,079.00		\$	1,079.00
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	2	EA	\$	12,000.00	=	\$	24,000.00		\$	24,000.00
Curb Inlet (Type R) L=5', Depth < 5'	4	EA	\$	5,542.00	=	\$	22,168.00		\$	22,168.00
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	\$	9,841.00	=	\$	-		\$	-
Curb Inlet (Type R) L=15', Depth < 5'	1	EA	\$	9,918.00	=	\$	9,918.00		\$	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	14	EA	\$	11,627.00	=	\$	162,778.00		\$	162,778.00
Storm Sewer Manhole, Slab Base		EA	\$	6,395.00	=	\$	-		\$	-
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	4,334	CY	\$	112.00	=	\$	485,408.00		\$	485,408.00
Drainage Channel Lining, Grass		AC	\$	1,469.00	=	\$	-		\$	-
Drainage Channel Lining, Other Stabilization					=	\$	-		\$	-
Type IV Impact Basin/Forebay A	1	EA	\$	45,000.00	=	\$	45,000.00		\$	45,000.00
42" Impact Basin/Forebay B	1	EA	\$	22,000.00	=	\$	22,000.00		\$	22,000.00
[insert items not listed but part of construction plans]										
			Section 2 Subtotal		=	\$	2,427,350.00		\$	2,427,350.00

Update quantities. Plans included 60" RCP and z 15" RCP. Quantities will be verified on the resubm Unresolved.

36"RCP quantity missing (Per Sht 9 of 21 of the C 209 LF)

Update 42"RCP quantity. (Per Sht 9 and 10 of th = 1055 LF)

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

Update quantities. Plans included 60" RCP and zero 15" RCP. Quantities will be verified on the resubmittal. Unresolved.
36"RCP quantity missing (Per Sht 9 of 21 of the CD= 209 LF)
Update 42"RCP quantity. (Per Sht 9 and 10 of the CD = 1055 LF)

Will be reviewed on resubmittal. Unable to verify the extents of lining on the plans.

PROJECT INFORMATION							
Riverbend - Filing 1/PREDEVELOPMENT GRADING				10/28/2020		SF184	
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)							
42" Reinforced Concrete Pipe	475	LF	\$ 160.00	=	\$ 76,000.00		\$ 76,000.00
Storm Sewer Manhole, Box Base	3	EA	\$ 11,627.00	=	\$ 34,881.00		\$ 34,881.00
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	8,227	LF	\$ 64.00	=	\$ 526,528.00		\$ 526,528.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -
Gate Valves, 8"	86	EA	\$ 1,858.00	=	\$ 159,788.00		\$ 159,788.00
Fire Hydrant Assembly, w/ all valves	15	EA	\$ 6,597.00	=	\$ 98,955.00		\$ 98,955.00
Water Service Line Installation, inc. tap and valves	209	EA	\$ 1,324.00	=	\$ 276,716.00		\$ 276,716.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS							
Sewer Main Pipe (PVC), Size 8"	6,735	LF	\$ 64.00	=	\$ 431,040.00		\$ 431,040.00
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	33	EA	\$ 4,386.00	=	\$ 144,738.00		\$ 144,738.00
Sanitary Service Line Installation, complete	209	EA	\$ 1,402.00	=	\$ 293,018.00		\$ 293,018.00
Sanitary Sewer Lift Station, complete	1	EA	\$ 796,514.00	=	\$ 796,514.00		\$ 796,514.00
				=	\$ -		\$ -
[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				=	\$ 2,887,858.00		\$ 2,887,858.00

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

PROJECT INFORMATION		
Riverbend - Filing 1/PREDEVELOPMENT GRADING	10/28/2020	SF184
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	\$ 2,500.00	=	\$ 2,500.00		\$ 2,500.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 3,000.00	=	\$ 3,000.00		\$ 3,000.00
						Total Construction Financial Assurance \$ 6,304,743.03	
						(Sum of all section subtotals plus as-builts and pond/BMP certification)	
						Total Remaining Construction Financial Assurance (with Pre-Plat Construction) \$ 6,304,743.03	
						(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)	
						Total Defect Warranty Financial Assurance \$ 643,982.50	
						(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.	
<div style="border-bottom: 1px solid black; height: 40px; margin-bottom: 10px;"></div>	
Engineer (P.E. Seal Required)	
Approved by Owner / Applicant	Date
Approved by El Paso County Engineer / ECM Administrator	Date