

Provide Pond WU FAE or include costs in this one.

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

Updated: 7/16/2019

PROJECT INFORMATION			
Bent Grass Residential Filing No. 2	5/7/2020	SF-19-014	
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		CY	\$ 8.00	=	\$ -		\$ -
1,000-5,000; \$8,000 min	4,202	CY	\$ 6.00	=	\$ 25,212.00		\$ 25,212.00
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.)	5	AC	\$ 800.00	=	\$ 4,000.00		\$ 4,000.00
* Mulching		AC	\$ 750.00	=	\$ -		\$ -
* Permanent Erosion Control Blanket	17,180	SY	\$ 6.00	=	\$ 103,080.00		\$ 103,080.00
* Permanent Pond/BMP Construction	3,300	CY	\$ 20.00	=	\$ 66,000.00		\$ 66,000.00
* Permanent Pond/BMP (Spillway)	2	EA	\$ 5,000.00	=	\$ 10,000.00		\$ 10,000.00
* Permanent Pond/BMP (Outlet Structure)	2	EA	\$ 55,000.00	=	\$ 110,000.00		\$ 110,000.00
Safety Fence	175	LF	\$ 3.00	=	\$ 525.00		\$ 525.00
Temporary Erosion Control Blanket	15,700	SY	\$ 3.00	=	\$ 47,100.00		\$ 47,100.00
Vehicle Tracking Control	3	EA	\$ 2,370.00	=	\$ 7,110.00		\$ 7,110.00
Silt Fence	16,368	LF	\$ 2.50	=	\$ 40,920.00		\$ 40,920.00
Temporary Seeding	5	AC	\$ 628.00	=	\$ 3,140.00		\$ 3,140.00
Temporary Mulch		AC	\$ 750.00	=	\$ -		\$ -
Erosion Bales		EA	\$ 25.00	=	\$ -		\$ -
Erosion Logs/Straw Waddle	760	LF	\$ 5.00	=	\$ 3,800.00		\$ 3,800.00
Rock Check Dams		EA	\$ 500.00	=	\$ -		\$ -
Inlet Protection	13	EA	\$ 167.00	=	\$ 2,171.00		\$ 2,171.00
Sediment Basin	3	EA	\$ 1,762.00	=	\$ 5,286.00		\$ 5,286.00
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00
Straw Bale Check Dams	111	EA	\$ 100.00	=	\$ 11,100.00		\$ 11,100.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
<b>MAINTENANCE (35% of Construction BMPs)</b>					=	\$ 42,534.45	\$ 42,534.45
<b>Section 1 Subtotal</b>					=	<b>\$ 482,878.45</b>	<b>\$ 482,878.45</b>
<b>SECTION 2 - PUBLIC IMPROVEMENTS *</b>							
<b>ROADWAY IMPROVEMENTS</b>							
Construction Traffic Control	1	LS	\$ 5,000.00	=	\$ 5,000.00		\$ 5,000.00
Aggregate Base Course (135 lbs/cf) <u>8" Thick</u>	14,280	Tons	\$ 28.00	=	\$ 399,840.00		\$ 399,840.00
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) <u>4" Thick</u>	9,540	Tons	\$ 88.00	=	\$ 839,520.00		\$ 839,520.00
Raised Median, Paved		SF	\$ 8.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign	30	EA	\$ 300.00	=	\$ 9,000.00		\$ 9,000.00
Guide/Street Name Sign	16	EA	\$ 300.00	=	\$ 4,800.00		\$ 4,800.00
Epoxy Pavement Marking	1,050	SF	\$ 13.00	=	\$ 13,650.00		\$ 13,650.00
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)	7,597	LF	\$ 30.00	=	\$ 227,910.00		\$ 227,910.00
Curb and Gutter, Type B (Median)		LF	\$ 30.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)	14,000	LF	\$ 30.00	=	\$ 420,000.00		\$ 420,000.00
4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -		\$ -
5" Sidewalk		SY	\$ 60.00	=	\$ -		\$ -
6" Sidewalk	9,938	SY	\$ 72.00	=	\$ 715,536.00		\$ 715,536.00
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -
Pedestrian Ramp	45	EA	\$ 1,150.00	=	\$ 51,750.00		\$ 51,750.00
Cross Pan, local (8" thick, 6' wide to include return)	800	LF	\$ 61.00	=	\$ 48,800.00		\$ 48,800.00
Cross Pan, collector (9" thick, 8' wide to include return)	240	LF	\$ 92.00	=	\$ 22,080.00		\$ 22,080.00
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	=	\$ -		\$ -

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

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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 ( 16 x 6 )	240	LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe	1,084	LF	\$ 65.00	=	\$ 70,460.00		\$ 70,460.00
24" Reinforced Concrete Pipe	136	LF	\$ 78.00	=	\$ 10,608.00		\$ 10,608.00
30" Reinforced Concrete Pipe	127	LF	\$ 97.00	=	\$ 12,319.00		\$ 12,319.00
36" Reinforced Concrete Pipe	245	LF	\$ 120.00	=	\$ 29,400.00		\$ 29,400.00
42" Reinforced Concrete Pipe	58	LF	\$ 160.00	=	\$ 9,280.00		\$ 9,280.00
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 (unit cost = 6x pipe unit cost)	4	EA	\$ 390.00	=	\$ 1,560.00		\$ 1,560.00
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 = 36 (unit cost = 6x pipe unit cost)	1	EA	\$ 720.00	=	\$ 720.00		\$ 720.00
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'	2	EA	\$ 7,861.00	=	\$ 15,722.00		\$ 15,722.00
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'	3	EA	\$ 10,633.00	=	\$ 31,899.00		\$ 31,899.00
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'	5	EA	\$ 11,667.00	=	\$ 58,335.00		\$ 58,335.00
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,640.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'	1	EA	\$ 5,731.00	=	\$ 5,731.00		\$ 5,731.00
Storm Sewer Manhole, Box Base	2	EA	\$ 11,627.00	=	\$ 23,254.00		\$ 23,254.00
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"	800	Tons	\$ 80.00	=	\$ 64,000.00		\$ 64,000.00
Rip Rap, Grouted		Tons	\$ 95.00	=	\$ -		\$ -
Drainage Channel Construction, Size ( 26 x 5 )	1,300	LF	\$ 200.00	=	\$ 260,000.00		\$ 260,000.00
Drainage Channel Lining, Concrete		CY	\$ 570.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap	5,672	CY	\$ 112.00	=	\$ 635,264.00		\$ 635,264.00
Drainage Channel Lining, Grass	3	AC	\$ 1,469.00	=	\$ 4,407.00		\$ 4,407.00
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
Section 2 Subtotal				=	\$ 3,991,313.00		\$ 3,991,313.00

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						% Complete	Remaining
<b>SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**</b>							
<b>ROADWAY IMPROVEMENTS</b>							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>STORM DRAIN IMPROVEMENTS</b> (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>WATER SYSTEM IMPROVEMENTS</b>							
Water Main Pipe (PVC), Size 8"	7,979	LF	\$ 64.00	=	\$ 510,656.00		\$ 510,656.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -
Gate Valves, 8"	81	EA	\$ 1,858.00	=	\$ 150,498.00		\$ 150,498.00
Fire Hydrant Assembly, w/ all valves	28	EA	\$ 6,597.00	=	\$ 184,716.00		\$ 184,716.00
Water Service Line Installation, inc. tap and valves	178	EA	\$ 1,324.00	=	\$ 235,672.00		\$ 235,672.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
Water Main Pipe (PVC), Size 10"	3,004	LF	\$ 84.00	=	\$ 252,336.00		\$ 252,336.00
Gate Valves, 10"	13	EA	\$ 2,158.00	=	\$ 28,054.00		\$ 28,054.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
<b>SANITARY SEWER IMPROVEMENTS</b>							
Sewer Main Pipe (PVC), Size 8"	10,556	LF	\$ 64.00	=	\$ 675,584.00		\$ 675,584.00
Sanitary Sewer Manhole, Depth < 15 feet	68	EA	\$ 4,386.00	=	\$ 298,248.00		\$ 298,248.00
Sanitary Service Line Installation, complete	178	EA	\$ 1,402.00	=	\$ 249,556.00		\$ 249,556.00
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
<b>LANDSCAPING IMPROVEMENTS</b> (For subdivision specific condition of approval, or PUD)							
Landscaping	1	LS	\$ 210,000.00	=	\$ 210,000.00		\$ 210,000.00
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
** - Section 3 is not subject to defect warranty requirements							
<b>Section 3 Subtotal</b>				=	<b>\$ 2,795,320.00</b>		<b>\$ 2,795,320.00</b>

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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	\$ 40,000.00	=	\$ 40,000.00		\$ 40,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 15,000.00	=	\$ 15,000.00		\$ 15,000.00
Total Construction Financial Assurance						\$	<b>7,324,511.45</b>
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$	<b>7,324,511.45</b>
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance						\$	<b>861,921.00</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 shown on the Grading and Erosion Control Plan and Construction Drawings associated with the Project.

Engineer (P.E. Seal Required)

*James Byers*

Approved by Owner / Applicant

Approved by El Paso County Engineer / ECM Administrator



4/2/20

Date

04/20/2020

Date