

2021 Financial Assurance Estimate Form
(with pre-plat construction)

Updated: 12/22/2020

PROJECT INFORMATION		
CROSSROADS MIXED USE	8/23/2021	SP2011
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 SUBMITTED WITH DEVELOPMENT PLAN								
less than 1,000; \$5,300 min		CY	\$ 8.00	=	\$ -		\$ -	
1,000-5,000; \$8,000 min	43,728	CY	\$ 6.00	=	\$ 262,368.00		\$ 262,368.00	
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	\$ 828.00	=	\$ -		\$ -	
* Mulching		AC	\$ 777.00	=	\$ -		\$ -	
* Permanent Erosion Control Blanket		SY	\$ 5.00	=	\$ -		\$ -	
* Permanent Pond/BMP Construction		CY	\$ 21.00	=	\$ -		\$ -	
* Permanent Pond/BMP (provide engineer's estimate)		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -	
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -	
Vehicle Tracking Control	1	EA	\$ 2,453.00	=	\$ 2,453.00		\$ 2,453.00	
Silt Fence	1,303	LF	\$ 2.60	=	\$ 3,387.80		\$ 3,387.80	
Temporary Seeding	30	AC	\$ 650.00	=	\$ 19,500.00		\$ 19,500.00	
Temporary Mulch	30	AC	\$ 777.00	=	\$ 23,310.00		\$ 23,310.00	
Erosion Bales	12	EA	\$ 26.00	=	\$ 312.00		\$ 312.00	
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -	
Rock Check Dams		EA	\$ 518.00	=	\$ -		\$ -	
Inlet Protection		EA	\$ 173.00	=	\$ -		\$ -	
Sediment Basin	4	EA	\$ 1,824.00	=	\$ 7,296.00		\$ 7,296.00	
Concrete Washout Basin		EA	\$ 932.00	=	\$ -		\$ -	
				=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
				=	\$ -		\$ -	
MAINTENANCE (35% of Construction BMPs)					=	\$ 19,690.58		\$ 19,690.58
Section 1 Subtotal					=	\$ 338,317.38		\$ 338,317.38
SECTION 2 - PUBLIC IMPROVEMENTS *								
ROADWAY IMPROVEMENTS								
Construction Traffic Control	1	LS	\$ 8,000.00	=	\$ 8,000.00		\$ 8,000.00	
Aggregate Base Course (135 lbs/cf)	3,450	Tons	\$ 29.00	=	\$ 100,050.00		\$ 100,050.00	
Aggregate Base Course (135 lbs/cf)		CY	\$ 52.00	=	\$ -		\$ -	
Asphalt Pavement (3" thick)		SY	\$ 14.50	=	\$ -		\$ -	
Asphalt Pavement (4" thick)		SY	\$ 20.00	=	\$ -		\$ -	
Asphalt Pavement (6" thick)		SY	\$ 30.00	=	\$ -		\$ -	
Asphalt Pavement (147 lbs/cf) 5" thick	12,517	SY	\$ 25.00	=	\$ 312,925.00		\$ 312,925.00	
Raised Median, Paved (MEDIAN COVER)	12,301	SF	\$ 8.30	=	\$ 102,098.30		\$ 102,098.30	
Regulatory Sign/Advisory Sign		EA	\$ 311.00	=	\$ -		\$ -	
Guide/Street Name Sign	4	EA	\$ 250.00	=	\$ 1,000.00		\$ 1,000.00	
Epoxy Pavement Marking	1,800	LF	\$ 1.00	=	\$ 1,800.00		\$ 1,800.00	
Thermoplastic Pavement Marking		SF	\$ 24.00	=	\$ -		\$ -	
Barricade - Type 3	1	EA	\$ 207.00	=	\$ 207.00		\$ 207.00	
Delineator - Type I		EA	\$ 25.00	=	\$ -		\$ -	
Curb and Gutter, Type A (6" Vertical)	3,176	LF	\$ 15.00	=	\$ 47,640.00		\$ 47,640.00	
Curb and Gutter, Type B (Median)		LF	\$ 31.00	=	\$ -		\$ -	
Curb and Gutter, Type C (Ramp)	1,559	LF	\$ 22.00	=	\$ 34,298.00		\$ 34,298.00	
4" Sidewalk (common areas only)		SY	\$ 50.00	=	\$ -		\$ -	
5" Sidewalk	11,360	SF	\$ 5.00	=	\$ 56,800.00		\$ 56,800.00	
6" Sidewalk		SY	\$ 75.00	=	\$ -		\$ -	
8" Sidewalk		SY	\$ 99.00	=	\$ -		\$ -	
Pedestrian Ramp	14	EA	\$ 1,190.00	=	\$ 16,660.00		\$ 16,660.00	
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 63.00	=	\$ -		\$ -	
Cross Pan, collector (9" thick, 8' wide to include return)	3	EA	\$ 3,200.00	=	\$ 9,600.00		\$ 9,600.00	
Curb Chase		EA	\$ 1,532.00	=	\$ -		\$ -	
Guardrail Type 3 (W-Beam)		LF	\$ 51.00	=	\$ -		\$ -	
Guardrail Type 7 (Concrete)		LF	\$ 75.00	=	\$ -		\$ -	
Guardrail End Anchorage		EA	\$ 2,172.00	=	\$ -		\$ -	
Guardrail Impact Attenuator		EA	\$ 3,899.00	=	\$ -		\$ -	
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 81.00	=	\$ -		\$ -	
Sound Barrier Fence (panels, 6' high)		LF	\$ 83.00	=	\$ -		\$ -	
Electrical Conduit, Size =		LF	\$ 17.00	=	\$ -		\$ -	
Traffic Signal, complete intersection		EA	\$ 439,875	=	\$ -		\$ -	

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						% Complete	Remaining		
[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		=	\$ -		\$ -		
18" Reinforced Concrete Pipe	113	LF	\$ 45.00	=	\$ 5,085.00		\$ 5,085.00		
24" Reinforced Concrete Pipe	232	LF	\$ 81.00	=	\$ 18,792.00		\$ 18,792.00		
30" Reinforced Concrete Pipe		LF	\$ 100.00	=	\$ -		\$ -		
36" Reinforced Concrete Pipe	16	LF	\$ 124.00	=	\$ 1,984.00		\$ 1,984.00		
42" Reinforced Concrete Pipe		LF	\$ 166.00	=	\$ -		\$ -		
48" Reinforced Concrete Pipe		LF	\$ 202.00	=	\$ -		\$ -		
54" Reinforced Concrete Pipe		LF	\$ 254.00	=	\$ -		\$ -		
60" Reinforced Concrete Pipe		LF	\$ 298.00	=	\$ -		\$ -		
66" Reinforced Concrete Pipe		LF	\$ 344.00	=	\$ -		\$ -		
72" Reinforced Concrete Pipe		LF	\$ 393.00	=	\$ -		\$ -		
18" Corrugated Steel Pipe		LF	\$ 87.00	=	\$ -		\$ -		
24" Corrugated Steel Pipe		LF	\$ 99.00	=	\$ -		\$ -		
30" Corrugated Steel Pipe		LF	\$ 126.00	=	\$ -		\$ -		
36" Corrugated Steel Pipe		LF	\$ 152.00	=	\$ -		\$ -		
42" Corrugated Steel Pipe		LF	\$ 174.00	=	\$ -		\$ -		
48" Corrugated Steel Pipe		LF	\$ 184.00	=	\$ -		\$ -		
54" Corrugated Steel Pipe		LF	\$ 269.00	=	\$ -		\$ -		
60" Corrugated Steel Pipe		LF	\$ 290.00	=	\$ -		\$ -		
66" Corrugated Steel Pipe		LF	\$ 352.00	=	\$ -		\$ -		
72" Corrugated Steel Pipe		LF	\$ 414.00	=	\$ -		\$ -		
78" Corrugated Steel Pipe		LF	\$ 476.00	=	\$ -		\$ -		
84" Corrugated Steel Pipe		LF	\$ 569.00	=	\$ -		\$ -		
Flared End Section (FES) RCP Size = 18" <small>(unit cost = 6x pipe unit cost)</small>	1	EA	\$ 1,800.00	=	\$ 1,800.00		\$ 1,800.00		
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	\$ 5,736.00	=	\$ -		\$ -		
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,440.00	=	\$ -		\$ -		
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 8,637.00	=	\$ -		\$ -		
Curb Inlet (Type R) L=10', Depth < 5'	1	EA	\$ 7,894.00	=	\$ 7,894.00		\$ 7,894.00		
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 8,136.00	=	\$ -		\$ -		
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 10,185.00	=	\$ -		\$ -		
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 10,265.00	=	\$ -		\$ -		
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'	2	EA	\$ 11,005.00	=	\$ 22,010.00		\$ 22,010.00		
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 12,034.00	=	\$ -		\$ -		
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 10,940.00	=	\$ -		\$ -		
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 12,075.00	=	\$ -		\$ -		
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,802.00	=	\$ -		\$ -		
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,932.00	=	\$ -		\$ -		
Storm Sewer Manhole, Box Base		EA	\$ 12,034.00	=	\$ -		\$ -		
Storm Sewer Manhole, Slab Base		EA	\$ 6,619.00	=	\$ -		\$ -		
Geotextile (Erosion Control)		SY	\$ 6.20	=	\$ -		\$ -		
Rip Rap, d50 size from 6" to 24"	242	CY	\$ 65.00	=	\$ 15,730.00		\$ 15,730.00		
Rip Rap, Grouted		Tons	\$ 98.00	=	\$ -		\$ -		
Drainage Channel Construction, Size (W x H)		LF		=	\$ -		\$ -		
Drainage Channel Lining, Concrete		CY	\$ 590.00	=	\$ -		\$ -		
Drainage Channel Lining, Rip Rap		CY	\$ 116.00	=	\$ -		\$ -		
Drainage Channel Lining, Grass		AC	\$ 1,520.00	=	\$ -		\$ -		
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -		
[insert items not listed but part of construction plans]				=	\$ -		\$ -		
[insert items not listed but part of construction plans]				=	\$ -		\$ -		
Section 2 Subtotal					=	\$ 764,373.30	\$ 764,373.30		

* - Subject to defect warranty financial assurance. A minimum of 20% shall

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						% Complete	Remaining
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**							
ROADWAY IMPROVEMENTS							
TRAFFIC CIRCLE INCLUDED IN ROADWAY IMPROVEMENTS, SECTION 2				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
FSD/WQ POND	1	EA	\$ 50,000.00	=	\$ 50,000.00		\$ 50,000.00
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	1,600	LF	\$ 60.00	=	\$ 96,000.00		\$ 96,000.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 78.00	=	\$ -		\$ -
Gate Valves, 8"	11	EA	\$ 1,923.00	=	\$ 21,153.00		\$ 21,153.00
Fire Hydrant Assembly, w/ all valves	1	EA	\$ 2,500.00	=	\$ 2,500.00		\$ 2,500.00
Water Service Line Installation, inc. tap and valves		EA	\$ 1,370.00	=	\$ -		\$ -
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	\$ 66.00	=	\$ -		\$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,540.00	=	\$ -		\$ -
Sanitary Service Line Installation, complete		EA	\$ 1,451.00	=	\$ -		\$ -
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)							
LANDSCAPING IMPROVEMENTS	1	EA	\$ 209,717.00	=	\$ 209,717.00		\$ 209,717.00
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
Section 3 Subtotal				=	\$ 379,370.00		\$ 379,370.00

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


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					% 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						\$ 1,482,060.68
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 1,482,060.68
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance						\$ 205,348.26
(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