

# 2015 Financial Assurance Estimate Form

(Basic form)

3/17/2015

**PPR1846**

**Project Information**      PPR 18-046

**The Townhomes at Bradley Crossroads**

**4/26/2019**

Project Name

Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price		
Earthwork*	8,385.00	CY	@	\$ 5	=	\$ 41,925.00 *
Permanent Seeding*	1.50	AC	@	\$ 582	=	\$ 873.00 *
Mulching*	1.50	AC	@	\$ 507	=	\$ 760.50 *
Permanent Erosion Control Blanket*	200.00	SY	@	\$ 6	=	\$ 1,200.00 *
Temporary Erosion Control Blanket		SY	@	\$ 3	=	\$
Vehicle Tracking Control	2.00	EA	@	\$ 1,625	=	\$ 3,250.00
Safety Fence		LF	@	\$ 3	=	\$
Silt Fence	200.00	LF	@	\$ 4	=	\$ 800.00
Temporary Seeding		AC	@	\$ 485	=	\$
Temporary Mulch		AC	@	\$ 507	=	\$
Erosion Bales		EA	@	\$ 21	=	\$
Erosion Logs	794.00	LF	@	\$ 6	=	\$ 4,764.00
Rock Ditch Checks	2.00	EA	@	\$ 300	=	\$ 600.00
Inlet Protection	6.00	EA	@	\$ 153	=	\$ 918.00
Sediment Basin	3.00	EA	@	\$ 1,625	=	\$ 4,875.00
Concrete Washout Basin	1.00	EA	@	\$ 776	=	\$ 776.00
			@	\$	=	\$
Specified items subject to defect warranty financial assurance						
				<b>Section 1 Subtotal</b>	=	<b>\$ 60,741.50</b>





Section 2 - Public Improvements**	Quantity	Units		Price		
<b>- Roadway Improvements</b>						
Construction Traffic Control		LS	@	\$	=	\$
Aggregate Base Course		Tons	@	\$ 18	=	\$
Asphalt Pavement		Tons	@	\$ 65	=	\$
Raised Median, Paved		SF	@	\$ 7	=	\$
Electrical Conduit, Size =		LF	@	\$ 14	=	\$
Traffic Signal, complete intersection		EA	@	\$ 250,000	=	\$
Regulatory Sign		EA	@	\$ 100	=	\$
Advisory Sign		EA	@	\$ 100	=	\$
Guide/Street Name Sign		EA	@	\$	=	\$
Epoxy Pavement Marking		SF	@	\$ 12	=	\$
Thermoplastic Pavement Marking		SF	@	\$ 22	=	\$
Barricade - Type 3		EA	@	\$ 115	=	\$
Delineator (Type I)		EA	@	\$ 21	=	\$
Curb and Gutter, Type C (Ramp)		LF	@	\$ 21	=	\$
Curb and Gutter, Type A (6" Vertical)		LF	@	\$ 16	=	\$
Curb and Gutter, Type B (Median)		LF	@	\$ 13	=	\$
Pedestrian Ramp		SY	@	\$ 108	=	\$

Cross Pan		SY	@	\$	\$53	=	\$
Curb Chase		EA	@	\$	\$1,300	=	\$
Guardrail Type 3 (W-Beam)		LF	@	\$	\$18	=	\$
Guardrail Type 7 (Concrete)		LF	@	\$	\$67	=	\$
Guardrail End Anchorage		EA	@	\$	\$1,978	=	\$
Guardrail Impact Attenuator		EA	@	\$	\$3,564	=	\$
Sound Barrier Fence		LF	@	\$	\$100	=	\$
<b>- Storm Drain Improvements</b>							
Concrete Box Culvert (M Standard), Size ( W x H )		LF	@	\$		=	\$
Reinforced Concrete Pipe (RCP) Size		LF	@	\$		=	\$
18" Reinforced Concrete Pipe		LF	@	\$	\$69	=	\$
24" Reinforced Concrete Pipe		LF	@	\$	\$84	=	\$
30" Reinforced Concrete Pipe		LF	@	\$	\$94	=	\$
36" Reinforced Concrete Pipe		LF	@	\$	\$124	=	\$
42" Reinforced Concrete Pipe		LF	@	\$	\$134	=	\$
48" Reinforced Concrete Pipe		LF	@	\$	\$178	=	\$
54" Reinforced Concrete Pipe		LF	@	\$	\$182	=	\$
60" Reinforced Concrete Pipe		LF	@	\$	\$216	=	\$
66" Reinforced Concrete Pipe		LF	@	\$	\$263	=	\$
72" Reinforced Concrete Pipe		LF	@	\$	\$283	=	\$
High Density Polyethylene (HDPE) Pipe Size		LF	@	\$		=	\$
Corrugated Steel Pipe (CSP) Size		LF	@	\$		=	\$
18" Corrugated Steel Pipe		LF	@	\$	\$66	=	\$
24" Corrugated Steel Pipe		LF	@	\$	\$96	=	\$
30" Corrugated Steel Pipe		LF	@	\$	\$101	=	\$
36" Corrugated Steel Pipe		LF	@	\$	\$136	=	\$
42" Corrugated Steel Pipe		LF	@	\$	\$147	=	\$
48" Corrugated Steel Pipe		LF	@	\$	\$169	=	\$
54" Corrugated Steel Pipe		LF	@	\$	\$193	=	\$
60" Corrugated Steel Pipe		LF	@	\$	\$227	=	\$
66" Corrugated Steel Pipe		LF	@	\$	\$278	=	\$
72" Corrugated Steel Pipe		LF	@	\$	\$330	=	\$
78" Corrugated Steel Pipe		LF	@	\$	\$381	=	\$
84" Corrugated Steel Pipe		LF	@	\$	\$432	=	\$
Flared End Section (FES) RCP †		EA	@	\$		=	\$
Flared End Section (FES) HDPE †		EA	@	\$		=	\$
Flared End Section (FES) CSP †		EA	@	\$		=	\$
End Treatment- Headwall		EA	@	\$		=	\$
End Treatment- Wingwall		EA	@	\$		=	\$
End Treatment - Cutoff Wall		EA	@	\$		=	\$
Curb Inlet (Type R) L=5', Depth < 5 feet		EA	@	\$	\$3,791	=	\$
Curb Inlet (Type R) L=5', 5'-10' Depth		EA	@	\$	\$5,044	=	\$
Curb Inlet (Type R) L =5' , 10'-15' Depth		EA	@	\$	\$6,027	=	\$
Curb Inlet (Type R) L =10', Depth < 5 feet		EA	@	\$	\$5,528	=	\$
Curb Inlet (Type R) L =10' , 5'-10' Depth		EA	@	\$	\$6,694	=	\$
Curb Inlet (Type R) L =10' , 10'-15' Depth		EA	@	\$	\$7,500	=	\$
Curb Inlet (Type R) L =15' , Depth < 5 feet		EA	@	\$	\$7,923	=	\$
Curb Inlet (Type R) L =15' , 5'-10' Depth		EA	@	\$	\$8,000	=	\$
Curb Inlet (Type R) L =15' , 10'-15' Depth		EA	@	\$	\$8,800	=	\$
Curb Inlet (Type R) L =20' , Depth < 5 feet		EA	@	\$	\$8,000	=	\$

Curb Inlet (Type R) L =20' , 5'-10' Depth		EA	@	\$	\$8,830	=	\$
Curb Inlet (Type R) L =____', ____' - ____' Depth		EA	@	\$		=	\$
Curb Inlet (Type R) L =____', ____' - ____' Depth		EA	@	\$		=	\$
Grated Inlet (Type C), < 5' deep		EA	@	\$	\$3,270	=	\$
Grated Inlet (Type D), < 5' deep		EA	@	\$	\$3,908	=	\$
Storm Sewer Manhole, Box Base, Depth < 15 feet		EA	@	\$	\$8,592	=	\$
Storm Sewer Manhole, Slab Base, Depth < 15 feet		EA	@	\$	\$4,575	=	\$
Geotextile (Erosion Control)		SY	@	\$	\$5	=	\$
Rip Rap, d50 Size from 6" to 24"		CY	@	\$	\$98	=	\$
Rip Rap, Grouted		CY	@	\$	\$215	=	\$
Drainage Channel Construction, Size ( W x H )		LF	@	\$		=	\$
Channel Lining, Concrete		CY	@	\$	\$450	=	\$
Channel Lining, Rip Rap (Ditch-Out)		CY	@	\$	\$98	=	\$
Channel Lining, Grass		AC	@	\$	\$1,287	=	\$
Channel Lining, Other Stabilization		SY	@	\$	\$3	=	\$
Detention Outlet Structure		EA	@	\$		=	\$
Detention Emergency Spillway		EA	@	\$		=	\$
Permanent Water Quality Facility (Describe)		EA	@	\$		=	\$
**all items this section subject to defect warranty financial assurance.    † For flared end sections, multiply pipe LF cost by 6							
							<b>Section 2 Subtotal</b> = \$ **

<b>Section 3 - Common Development Improvements (Private or District)***</b>	<b>Quantity</b>	<b>Units</b>		<b>Price</b>		
<b><u>- Roadway Improvements</u></b>						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
Concrete Sidewalk	380.00	SY	@	\$ 38	=	\$ 14,440.00
			@	\$	=	\$
			@	\$	=	\$
<b><u>- Storm Drain Improvements</u></b>						
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	\$	=	\$
			@	\$	=	\$
			@	\$	=	\$
Channel Lining, Rip Rap	264.00	CY	@	\$ 98	=	\$ 25,872.00
Storm Sewer Manhole, Box Base, Depth < 15 feet	1.00	EA	@	\$ 8,592	=	\$ 8,592.00
12" Reinforced Concrete Pipe	156.00	LF	@	\$ 48	=	\$ 7,488.00
36" Reinforced Concrete Pipe	4.00	LF	@	\$ 124	=	\$ 496.00
Channel Lining, Concrete	8.00	CY	@	\$ 425	=	\$ 3,400.00
Flared End Section (FES) RCP - 24"	1.00	EA	@	\$ 325	=	\$ 325.00
Grated Inlet (Type C), < 5' deep	1.00	EA	@	\$ 3,270	=	\$ 3,270.00
<b><u>- Water System Improvements</u></b>						
Water Main Pipe (PVC), Size 8"		LF	@	\$ 94	=	\$
Water Main Pipe (Ductile Iron), Size 8"	1,591.00	LF	@	\$ 137	=	\$ 217,967.00
Gate Valves, 8"	22.00	EA	@	\$ 1,852	=	\$ 40,744.00
Fire Hydrant Assembly w/ all valves	3.00	EA	@	\$ 6,430	=	\$ 19,290.00
Water Service Line Installation, inc. tap & valves	78.00	EA	@	\$ 1,253	=	\$ 97,734.00
Fire Cistern Installation, complete		EA	@	\$	=	\$
<b><u>- Sanitary Sewer Improvements</u></b>						
Sewer Main Pipe (PVC), Size 8"	1,621.00	LF	@	\$ 94	=	\$ 152,374.00
Sanitary Sewer Manhole, Depth < 15 feet	10.00	EA	@	\$ 4,575	=	\$ 45,750.00
Sanitary Service Line Installation, complete	78.00	EA	@	\$ 1,516	=	\$ 118,248.00
Sanitary Sewer Lift Station, complete		EA	@	\$	=	\$
<b><u>- Landscaping (If Applicable)</u></b>						
(List landscaping line items and cost - usually only in case of subdivision specific condition of approval, or PUD)		EA	@	\$	=	\$
		EA	@	\$	=	\$
		EA	@	\$	=	\$
		EA	@	\$	=	\$
		EA	@	\$	=	\$
***items in this section are not subject to defect warranty financial assurance						
				<b>Section 3 Subtotal</b>	=	\$ 752,720.00

Financial Assurance Totals			
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)			\$
( Inc. survey to verify detention pond volumes.)	Construction Financial Assurance Total	=	\$ 813,461.50
	(Sum of all Section Totals)		
	Public Improvements Total* **	\$	44,758.50
	Defect Warranty Financial Assurance Total	=	\$ 8,951.70
	(20% of Section 2 Subtotal and 20% of identified Grading and Erosion BMP items)		

<b>Approvals</b> I hereby certify that this is an accurate and complete estimate of costs for the work as shown on the approved Construction Drawings associated with the Project.	
  Engineer	Date 5/2/19
 Approved by Owner / Applicant	Date 5/2/19
<div style="border: 1px solid black; padding: 5px; display: inline-block;">           Approved  <small>by Elizabeth Nijkamp              El Paso County Planning and Community Development              on behalf of Jennifer Irvine, County Engineer, ECM Administrator</small>            05/30/2019 6:45:07 PM         </div> 	
Approved by El Paso County Engineer / ECM Administrator	Date