2015 Financial Assurance

11/14/18

Estimate Form (with pre-plat construction)

Project Information	
Short Stp -- 5819 Palmer Park Blvd	**1/17/2019**
Project Name	Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price			% Complete	Remaining	
Earthwork*	180.00	CY	@	$ $5	=	$ 900.00		$ 900.00	*
Permanent Seeding* (inc. noxious weed mgmnt.)		AC	@	$ $582	=	$		$ -	*
Mulching*		AC	@	$ $507	=	$		$ -	*
Permanent Erosion Control Blanket*		SY	@	$ $6	=	$		$ -	*
Temporary Erosion Control Blanket		SY	@	$ $3		$		$ -	
Vehicle Tracking Control	1.00	EA	@	$ $1,625	=	$ 1,625.00		$ 1,625.00	
Safety Fence		LF	@	$ $3	=	$		$ -	
Silt Fence	250.00	LF	@	$ $4	=	$ 1,000.00		$ 1,000.00	
Temporary Seeding		AC	@	$ $485	=	$		$ -	
Temporary Mulch		AC	@	$ $507	=	$		$ -	
Erosion Bales		EA	@	$ $21	=	$		$ -	
Erosion Logs		LF	@	$ $6	=	$		$ -	
Rock Ditch Checks		EA	@	$	=	$		$ -	
Inlet Protection		EA	@	$ $153	=	$		$ -	
Sediment Basin		EA	@	$ $1,625	=	$		$ -	
Concrete Washout Basin	1.00	EA	@	$ $776	=	$ 776.00		$ 776.00	
			@	$	=	$		$ -	
* Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to final acceptance process.				**Section 1 Subtotal**	=	$ 4,301.00		$ 4,301.00	

Section 2 - Public Improvements**	Quantity	Units		Price			% Complete	Remaining	
- Roadway Improvements									
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	=	$		$ -	*
Concrete Sidewalk, 4"		SY	@	$38		$		$ -	*
Concrete Sidewalk, 5"		SY	@	$48		$		$ -	*
Concrete Sidewalk, 6"		SY	@	$57		$		$ -	*
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	=	$		$ -	*
- Storm Drain Improvements										
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	=	$		$ -	*
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) 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		CY	@	$ $98	=	$		$ -	*
Channel Lining, Grass		AC	@	$ $1,287	=	$		$ -	*
Channel Lining, Other Stabilization		SY	@	$ $3	=	$		$ -	*
Detention Outlet Structure		EA	@	$	=	$		$ -	*
Detention Emergency Spillway		EA	@	$	=	$		$ -	*
		EA	@	$	=	$		$ -	*
* Subject to defect warranty financial assurance. DO NOT ENTER MORE THAN 80% COMPLETE. A minimum of 20% to be retained up to final acceptance process. ┼ For flared end sections, multiply pipe LF cost by 6				**Section 2 Subtotal**	=	$			**

Section 3 - Common Development Improvements (Private or District)***	Quantity	Units		Price			% Complete	Remaining
- Roadway Improvements								
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
Concrete Sidewalk, 4" thick		SY	@	$ $38	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
- Storm Drain Improvements								
(Include any applicable items from above Public Improvements list, that are to be private and NOT maintained by El Paso County)			@	$	=	$		$ -
			@	$	=	$		$ -
			@	$	=	$		$ -
Sand Filter Basin, 62 SF	1.00		@	$ 6,500	=	$ 6,500.00		$ 6,500.00
1' x 1 Concrete drainage inlet	2.00		@	$ 800	=	$ 1,600.00		$ 1,600.00
8" PVC drainage pipe	66.26		@	$ 18	=	$ 1,192.68		$ 1,192.68
- Water System Improvements								
Water Main Pipe (PVC), Size 8"		LF	@	$ $94	=	$		$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	@	$ $137	=	$		$ -
Gate Valves, 8"		EA	@	$ $1,852	=	$		$ -
Fire Hydrant Assembly w/ all valves		EA	@	$ $6,430	=	$		$ -
Water Service Line Installation, including tap and valves		EA	@	$ 1,253	=	$		$ -
Fire Cistern Installation, complete		EA	@	$	=	$		$ -
- Sanitary Sewer Improvements								
Sewer Main Pipe (PVC), Size 8"		LF	@	$ $94	=	$		$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	@	$ $4,575	=	$		$ -
Sanitary Service Line Installation, complete		EA	@	$ 1,516	=	$		$ -
Sanitary Sewer Lift Station, complete		EA	@	$	=	$		$ -
- Landscaping (If Applicable) (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				**Section 3 Subtotal**	=	$ 9,292.68		9,292.68

Financial Assurance Totals		
As-built drawings - **(FILL IN IF THERE ARE ANY PUBLICLY-MAINTAINED IMPROVEMENTS)**		$
(Inc. survey to verify detention pond volumes.)	**Total Construction Financial Assurance**	**$13,593.68**
	(Sum of all section subtotals)	
	Total Remaining Construction Financial Assurance	**13,593.68**
	(Sum of all section totals less credit for items complete)	
	Total Defect Warranty Financial Assurance	**$180.00**
	(20% of all items identified as public improvements(*). 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 approved Construction Drawings associated with the Project.

Engineer, Oliver E. Watts, Colorado PELS # 9853 Date 2/4/19

(P.E. Seal)

OLIVER E. WATTS REGISTERED 9853 P. E. & L. S. STATE OF COLORADO

By Ted Vong, President 2/4/19

Approved by Owner / Applicant, Ted Vong, President, Short Stop Date

Approved by El Paso County Engineer / ECM Administrator Date