

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

Updated: 6/7/2019

PROJECT INFORMATION		
Forest Lakes Fil No. 5	6/4/2020	
Project Name:	Date	PCD File No. SF 1915

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		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		CY	\$ 2.50	= \$ -		\$ -
greater than 200,000; \$500,000 min		CY	\$ 2.00	= \$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmt.)		AC	\$ 800.00	= \$ -		\$ -
* Mulching		AC	\$ 750.00	= \$ -		\$ -
* Permanent Erosion Control Blanket		SY	\$ 6.00	= \$ -		\$ -
* Permanent Pond/BMP Construction	11,300	CY	\$ 20.00	= \$ 226,000.00		\$ 226,000.00
* Permanent Pond/BMP (Spillway)	2	EA	\$ 12,500.00	= \$ 25,000.00		\$ 25,000.00
* Permanent Pond/BMP (Outlet Structure)	2	EA	\$ 20,000.00	= \$ 40,000.00		\$ 40,000.00
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Vehicle Tracking Control		EA	\$ 2,370.00	= \$ -		\$ -
Silt Fence		LF	\$ 2.50	= \$ -		\$ -
Temporary Seeding		AC	\$ 628.00	= \$ -		\$ -
Temporary Mulch		AC	\$ 750.00	= \$ -		\$ -
Erosion Bales		EA	\$ 25.00	= \$ -		\$ -
Erosion Logs/Straw Waddle		LF	\$ 5.00	= \$ -		\$ -
Rock Check Dams		EA	\$ 500.00	= \$ -		\$ -
Inlet Protection	15	EA	\$ 167.00	= \$ 2,505.00		\$ 2,505.00
Sediment Basin		EA	\$ 1,762.00	= \$ -		\$ -
Concrete Washout Basin	1	EA	\$ 900.00	= \$ 900.00		\$ 900.00
[insert items not listed but part of construction plans]				= \$ -		\$ -
<b>MAINTENANCE (35% of Construction BMPs)</b>				= \$ 1,191.75		\$ 1,191.75
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)						
<b>Section 1 Subtotal</b>				<b>= \$ 295,596.75</b>		<b>\$ 295,596.75</b>

**SECTION 2 - PUBLIC IMPROVEMENTS \***

ROADWAY IMPROVEMENTS						
Construction Traffic Control	0	LS		= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf) 8" thick	3,363	CY	\$ 50.00	= \$ 168,150.00		\$ 168,150.00
Asphalt Pavement (3" thick)		SY	\$ 14.00	= \$ -		\$ -
Asphalt Pavement (4" thick)	12,400	SY	\$ 19.00	= \$ 235,600.00		\$ 235,600.00
Asphalt Pavement (6" thick)		SY	\$ 29.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 88.00	= \$ -		\$ -
Raised Median, Paved	5,467	SF	\$ 8.00	= \$ 43,736.00		\$ 43,736.00
Regulatory Sign/Advisory Sign	33	EA	\$ 300.00	= \$ 9,900.00		\$ 9,900.00
Guide/Street Name Sign	2	EA	\$ 300.00	= \$ 600.00		\$ 600.00
Epoxy Pavement Marking	396	SF	\$ 13.00	= \$ 5,148.00		\$ 5,148.00
Thermoplastic Pavement Marking	100	SF	\$ 23.00	= \$ 2,300.00		\$ 2,300.00
Barricade - Type 3	2	EA	\$ 200.00	= \$ 400.00		\$ 400.00
Delineator - Type 1		EA	\$ 24.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	5,066	LF	\$ 30.00	= \$ 151,980.00		\$ 151,980.00
Curb and Gutter, Type B (Median)	761	LF	\$ 30.00	= \$ 22,830.00		\$ 22,830.00
Curb and Gutter, Type C (Ramp)	2,212	LF	\$ 30.00	= \$ 66,360.00		\$ 66,360.00
4" Sidewalk (common areas only)	2,311	SY	\$ 48.00	= \$ 110,928.00		\$ 110,928.00
5" Sidewalk	1,609	SY	\$ 60.00	= \$ 96,540.00		\$ 96,540.00
6" Sidewalk		SY	\$ 72.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 96.00	= \$ -		\$ -
Pedestrian Ramp	6	EA	\$ 1,150.00	= \$ 6,900.00		\$ 6,900.00
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 81.00	= \$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 92.00	= \$ -		\$ -
Curb Chase		EA	\$ 1,480.00	= \$ -		\$ -
Guardrail Type 3 (W-Beam)	325	LF	\$ 49.00	= \$ 15,925.00		\$ 15,925.00
Guardrail Type 7 (Concrete)		LF	\$ 72.00	= \$ -		\$ -
Guardrail End Anchorage	2	EA	\$ 2,098.00	= \$ 4,196.00		\$ 4,196.00
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	\$ 425,000.00	= \$ -		\$ -

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Description	Quantity	Units	Unit Cost	=	Total	(with Pre-Plat Construction)	
						% Complete	Remaining
<i>[insert items not listed but part of construction plans]</i>							
<b>STORM DRAIN IMPROVEMENTS</b>							
Concrete Box Culvert (M Standard), Size ( W x H )		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe	467	LF	\$ 65.00	=	\$ 30,355.00		\$ 30,355.00
24" Reinforced Concrete Pipe	56	LF	\$ 78.00	=	\$ 4,368.00		\$ 4,368.00
30" Reinforced Concrete Pipe	1,327	LF	\$ 97.00	=	\$ 128,719.00		\$ 128,719.00
36" Reinforced Concrete Pipe	161	LF	\$ 120.00	=	\$ 19,320.00		\$ 19,320.00
42" Reinforced Concrete Pipe		LF	\$ 160.00	=	\$ -		\$ -
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	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 18 <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 390.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 30 <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 582.00	=	\$ 582.00		\$ 582.00
Flared End Section (FES) CSP Size = 36 <i>(unit cost = 6x pipe unit cost)</i>	1	EA	\$ 720.00	=	\$ 720.00		\$ 720.00
End Treatment- Headwall		EA	\$ 50,000.00	=	\$ -		\$ -
End Treatment- Wingwall		EA	\$ 30,000.00	=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
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'	3	EA	\$ 7,627.00	=	\$ 22,881.00		\$ 22,881.00
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'	1	EA	\$ 7,861.00	=	\$ 7,861.00		\$ 7,861.00
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 9,841.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'	3	EA	\$ 9,918.00	=	\$ 29,754.00		\$ 29,754.00
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	4	EA	\$ 11,627.00	=	\$ 46,508.00		\$ 46,508.00
Storm Sewer Manhole, Slab Base	5	EA	\$ 6,395.00	=	\$ 31,975.00		\$ 31,975.00
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		CY	\$ 112.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,469.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>							
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)							
<b>Section 2 Subtotal</b>				=	<b>\$ 1,286,704.00</b>		<b>\$ 1,286,704.00</b>

PROJECT INFORMATION							
Forest Lakes Fil No. 5				5/18/2020			
Project Name:				Date	PCD File No. SF 1915		
Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction) % Complete	Remaining
<b>SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**</b>							
<b>ROADWAY IMPROVEMENTS</b>							
El Paso County Tier I Trail Retaining Walls	1,157	LF	\$ 15.80	=	\$ 18,280.60		\$ 18,280.60
	8,428	FF	\$ 31.00	=	\$ 261,268.00		\$ 261,268.00
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)</b>							
18" RCP	847	LF	\$ 65.00	=	\$ 55,055.00		\$ 55,055.00
24" RCP	257	LF	\$ 78.00	=	\$ 20,046.00		\$ 20,046.00
36" RCP	49	LF	\$ 120.00	=	\$ 5,880.00		\$ 5,880.00
42" RCP	943	LF	\$ 160.00	=	\$ 150,980.00		\$ 150,980.00
Flared End Section (FES) RCP - 18"	1	EA	\$ 390.00	=	\$ 390.00		\$ 390.00
End Treatment - Headwall	2	EA	\$ 50,000.00	=	\$ 100,000.00		\$ 100,000.00
End Treatment - Wingwall	4	EA	\$ 30,000.00	=	\$ 120,000.00		\$ 120,000.00
Grated Inlet (Type C)	2	EA	\$ 4,640.00	=	\$ 9,280.00		\$ 9,280.00
Grated Inlet (Type D)	2	EA	\$ 5,731.00	=	\$ 11,462.00		\$ 11,462.00
Storm Sewer Manhole, Box Base	2	EA	\$ 11,627.00	=	\$ 23,254.00		\$ 23,254.00
Storm Sewer Manhole, Slab Base	4	EA	\$ 6,395.00	=	\$ 25,580.00		\$ 25,580.00
Geotextile (Erosion Control)	290	SY	\$ 6.00	=	\$ 1,740.00		\$ 1,740.00
Rip Rap, d50 size from 6" to 24"	193	TONS	\$ 80.00	=	\$ 15,440.00		\$ 15,440.00
				=	\$ -		\$ -
				=	\$ -		\$ -
<b>WATER SYSTEM IMPROVEMENTS</b>							
Water Main Pipe (PVC), Size 8"	3,320	LF	\$ 64.00	=	\$ 212,480.00		\$ 212,480.00
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -
Gate Valves, 8"	9	EA	\$ 1,858.00	=	\$ 16,722.00		\$ 16,722.00
Fire Hydrant Assembly, w/ all valves	6	EA	\$ 6,597.00	=	\$ 39,582.00		\$ 39,582.00
Water Service Line Installation, inc. tap and valves	33	EA	\$ 1,324.00	=	\$ 43,692.00		\$ 43,692.00
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>							
				=	\$ -		\$ -
<b>SANITARY SEWER IMPROVEMENTS</b>							
Sewer Main Pipe (PVC), Size 8"	3,130	LF	\$ 64.00	=	\$ 200,320.00		\$ 200,320.00
Sanitary Sewer Manhole, Depth < 15 feet	3	EA	\$ 4,386.00	=	\$ 13,158.00		\$ 13,158.00
Sanitary Service Line Installation, complete	33	EA	\$ 1,402.00	=	\$ 46,266.00		\$ 46,266.00
Sanitary Sewer Manhole, Depth > 15 feet	5	EA	\$ 5,000.00	=	\$ 25,000.00		\$ 25,000.00
				=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>							
				=	\$ -		\$ -
<b>LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)</b>							
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
<b>Section 3 Subtotal</b>					<b>=</b>	<b>\$ 1,415,775.60</b>	<b>\$ 1,415,775.60</b>

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

PROJECT INFORMATION		
Forest Lakes Fil No. 5	5/18/2020	
Project Name:	Date	PCD File No. SF 1915

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	\$ 2,200.00	= \$ 2,200.00	\$	2,200.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 2,400.00	= \$ 2,400.00	\$	2,400.00
<b>Total Construction Financial Assurance</b>					<b>\$</b>	<b>3,002,676.35</b>
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction)</b>					<b>\$</b>	<b>3,002,676.35</b>
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
<b>Total Defect Warranty Financial Assurance</b>					<b>\$</b>	<b>315,540.80</b>
(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)						

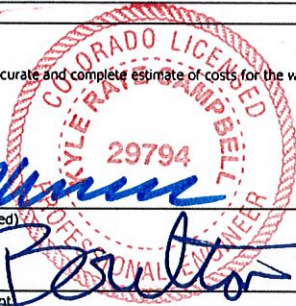
**Approvals**

I hereby certify that this is an accurate and complete estimate of costs for the work as shown on the Grading and Erosion Control Plan and Construction Drawings associated with the Project.

*John Campbell* 5/18/20  
 Engineer (P.E. Seal Required)

*John Campbell* 5-18-2020  
 Approved by Owner / Applicant Date

Approved by El Paso County Engineer / ECM Administrator



**Approved**  
 By: Elizabeth Nijkamp  
 Date: 06/09/2020  
 El Paso County Planning & Community Development

