

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

Updated: 7/16/2019

PROJECT INFORMATION		
Liberty Tree Academy Phase 2	12/4/2020	PPR-20-018
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								
less than 1,000; \$5,300 min		CY	\$ 8.00	=	\$ -		\$ -	
1,000-5,000; \$8,000 min	1,525	CY	\$ 6.00	=	\$ 9,150.00		\$ 9,150.00	
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.)	1	AC	\$ 800.00	=	\$ 856.00		\$ 856.00	
* Mulching	1	AC	\$ 750.00	=	\$ 900.00		\$ 900.00	
* Permanent Erosion Control Blanket		SY	\$ 6.00	=	\$ -		\$ -	
* Permanent Pond/BMP Construction		CY	\$ 20.00	=	\$ -		\$ -	
* Permanent Pond/BMP (Spillway)		EA		=	\$ -		\$ -	
* Permanent Pond/BMP (Trickle Channel, Conc, 5'Wx1'H)	20	LF	\$ 110.00	=	\$ 2,200.00		\$ 2,200.00	
Safety Fence		LF	\$ 3.00	=	\$ -		\$ -	
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -		\$ -	
Vehicle Tracking Control	1	EA	\$ 2,370.00	=	\$ 2,370.00		\$ 2,370.00	
Silt Fence	1,725	LF	\$ 2.50	=	\$ 4,312.50		\$ 4,312.50	
Temporary Seeding	1	AC	\$ 628.00	=	\$ 628.00		\$ 628.00	
Temporary Mulch	1	AC	\$ 750.00	=	\$ 750.00		\$ 750.00	
Erosion Bales		EA	\$ 25.00	=	\$ -		\$ -	
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -		\$ -	
Rock Check Dams	5	EA	\$ 500.00	=	\$ 2,500.00		\$ 2,500.00	
Inlet Protection	2	EA	\$ 167.00	=	\$ 334.00		\$ 334.00	
Sediment Basin		EA	\$ 1,762.00	=	\$ -		\$ -	
Concrete Washout Basin	1	EA	\$ 900.00	=	\$ 900.00		\$ 900.00	
Drainage Channel Construction		LF		=	\$ -		\$ -	
Drainage Channel Lining		CY	\$ 570.00	=	\$ -		\$ -	
Maintenance Access Stabilization (6" Thick)	60	SY	\$ 20.00	=	\$ 1,200.00		\$ 1,200.00	
MAINTENANCE (35% of Construction BMPs)					=	\$ 4,548.08		\$ 4,548.08
Section 1 Subtotal					=	\$ 30,648.58		\$ 30,648.58
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)								
SECTION 2 - PUBLIC IMPROVEMENTS *								
ROADWAY IMPROVEMENTS								
Construction Traffic Control	1	LS		=	\$ -		\$ -	
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28.00	=	\$ -		\$ -	
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 (8" thick)	320	SY	\$ 36.50	=	\$ 11,680.00		\$ 11,680.00	
Raised Median, Paved		SF	\$ 8.00	=	\$ -		\$ -	
Regulatory Sign/Advisory Sign	4	EA	\$ 300.00	=	\$ 1,200.00		\$ 1,200.00	
Guide/Street Name Sign		EA		=	\$ -		\$ -	
Epoxy Pavement Marking	1,238	SF	\$ 13.00	=	\$ 16,094.00		\$ 16,094.00	
Thermoplastic Pavement Marking	61	SF	\$ 23.00	=	\$ 1,403.00		\$ 1,403.00	
Barricade - Type 3		EA	\$ 200.00	=	\$ -		\$ -	
Delineator - Type I		EA	\$ 24.00	=	\$ -		\$ -	
Curb and Gutter, Type A (6" Vertical)	405	LF	\$ 30.00	=	\$ 12,150.00		\$ 12,150.00	
Curb and Gutter, Type B (Median)		LF	\$ 30.00	=	\$ -		\$ -	
Curb and Gutter, Type C (Ramp)		LF	\$ 30.00	=	\$ -		\$ -	
4" Sidewalk (common areas only)		SY	\$ 48.00	=	\$ -		\$ -	
5" Sidewalk		SY	\$ 60.00	=	\$ -		\$ -	
6" Sidewalk	287	SY	\$ 72.00	=	\$ 20,664.00		\$ 20,664.00	
8" Sidewalk		SY	\$ 96.00	=	\$ -		\$ -	
Pedestrian Ramp	2	EA	\$ 1,150.00	=	\$ 2,300.00		\$ 2,300.00	
Cross Pan, local (8" thick, 6' wide to include return)	84	LF	\$ 61.00	=	\$ 5,124.00		\$ 5,124.00	
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 92.00	=	\$ -		\$ -	
Curb Chase		EA	\$ 1,480.00	=	\$ -		\$ -	
Guardrail Type 3 (W-Beam)		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	=	\$ -		\$ -	

PROJECT INFORMATION

Liberty Tree Academy Phase 2 12/4/2020 PPR-20-018
 Project Name Date PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
WATER SYSTEM IMPROVEMENTS							
Relocate Fire Hydrant	1	EA	\$ 3,500.00	=	\$ 3,500.00		\$ 3,500.00
SANITARY SEWER IMPROVEMENTS							
Modify Manhole	1	EA	\$ 2,500.00	=	\$ 2,500.00		\$ 2,500.00
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe		LF	\$ 65.00	=	\$ -		\$ -
24" Reinforced Concrete Pipe		LF	\$ 78.00	=	\$ -		\$ -
30" Reinforced Concrete Pipe		LF	\$ 97.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe		LF	\$ 120.00	=	\$ -		\$ -
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	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 550.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = <small>(unit cost = 6x pipe unit cost)</small>		EA	\$ 390.00	=	\$ -		\$ -
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	\$ 5,542.00	=	\$ -		\$ -
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'		EA	\$ 7,861.00	=	\$ -		\$ -
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'		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		EA	\$ 11,627.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	=	\$ -		\$ -
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 (5' W x 1' 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				=	\$ -		\$ -
Section 2 Subtotal					=	\$ 76,615.00	\$ 76,615.00

* - 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
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC) **							
ROADWAY IMPROVEMENTS							
Asphalt Pavement (6" thick)	3,005	SY	\$ 29.00	=	\$ 87,145.00		\$ 87,145.00
Regulatory Sign/Advisory Sign	5	EA	\$ 300.00	=	\$ 1,500.00		\$ 1,500.00
Epoxy Pavement Marking	675	SF	\$ 13.00	=	\$ 8,775.00		\$ 8,775.00
Thermoplastic Pavement Marking	76	SF	\$ 23.00	=	\$ 1,748.00		\$ 1,748.00
Curb and Gutter, Type A (6" Vertical)	1,430	LF	\$ 30.00	=	\$ 42,900.00		\$ 42,900.00
6" Sidewalk	422	SY	\$ 72.00	=	\$ 30,384.00		\$ 30,384.00
Pedestrian Ramp	5	EA	\$ 1,150.00	=	\$ 5,750.00		\$ 5,750.00
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
18" Reinforced Concrete Pipe	200	LF	\$ 65.00	=	\$ 13,000.00		\$ 13,000.00
Flared End Section (FES) RCP Size = 18" (unit cost = 6x pipe unit cost)	1	EA	\$ 480.00	=	\$ 480.00		\$ 480.00
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	2	EA	\$ 7,188.00	=	\$ 14,376.00		\$ 14,376.00
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"		LF	\$ 64.00	=	\$ -		\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -
Gate Valves, 8"		EA	\$ 1,858.00	=	\$ -		\$ -
Fire Hydrant Assembly, w/ all valves		EA	\$ 6,597.00	=	\$ -		\$ -
Water Service Line Installation, inc. tap and valves		EA	\$ 1,324.00	=	\$ -		\$ -
Fire Cistern Installation, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
SANITARY SEWER IMPROVEMENTS							
Sewer Main Pipe (PVC), Size 8"		LF	\$ 64.00	=	\$ -		\$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,386.00	=	\$ -		\$ -
Sanitary Service Line Installation, complete		EA	\$ 1,402.00	=	\$ -		\$ -
Sanitary Sewer Lift Station, complete		EA		=	\$ -		\$ -
				=	\$ -		\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)							
Landscaping Improvements - Lump Sum	1	EA	\$ 35,000.00	=	\$ 35,000.00		\$ 35,000.00
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -

PROJECT INFORMATION		
Liberty Tree Academy Phase 2	12/4/2020	PPR-20-018
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)		
					% Complete	Remaining	
** - Section 3 is not subject to defect warranty requirements					Section 3 Subtotal	=	\$ 241,058.00
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS		-		\$	-
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		-		\$	-
Total Construction Financial Assurance						\$	348,321.58
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$	348,321.58
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance						\$	17,944.20
(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)

David D. Nijkamp

Approved by Owner / Applicant

Approved by El Paso County Engineer / ECM Administrator

12/11/2020

Date

Date

APPROVED

Engineering Department

04/06/2021 5:28:40 PM

dsdnijkamp

EPC Planning & Community Development Department