

Please use the 2024 form:
<https://planningdevelopment.elpasoco.com/planning-development-forms/#1584029763943-19bc4c03-3586>

Show location of seeding/mulching on the Final Phase of the GEC Plan (Sht6). Or add a general note on plans that all pervious disturbed areas will be seeded upon completion of construction.

2023 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 12/8/2022 **COM2346**

PROJECT INFORMATION		
Project Name: Barbarick Transfer Station	Date: December 2023	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		CY	\$ 6.00	=	\$ -		\$ -
5,001-20,000; \$30,000 min	8,606	CY	\$ 5.00	=	\$ 43,030.00		\$ 43,030.00
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 Erosion Control Blanket	0.0	SY	\$ 8.00	=	\$ -		\$ -
Permanent Seeding (inc. noxious weed mgmt.) & Mulching	1.2	AC	\$ 1,875.00	=	\$ 2,175.00		\$ 2,175.00
Permanent Pond/BMP (provide engineer's estimate)		EA		=	\$ -		\$ -
Concrete Washout Basin	1	EA	\$ 1,089.00	=	\$ 1,089.00		\$ 1,089.00
Inlet Protection	8	EA	\$ 202.00	=	\$ 1,616.00		\$ 1,616.00
Rock Check Dam		EA	\$ 605.00	=	\$ -		\$ -
Safety Fence (CONSTRUCTION FENCE)	960	LF	\$ 3.00	=	\$ 2,880.00		\$ 2,880.00
Sediment Basin (EXISTING DETENTION POND)	0.5	EA	\$ 2,132.00	=	\$ 1,066.00		\$ 1,066.00
Sediment Trap		EA	\$ 500.00	=	\$ -		\$ -
Silt Fence	841	LF	\$ 3.00	=	\$ 2,523.00		\$ 2,523.00
Slope Drain		LF	\$ 40.00	=	\$ -		\$ -
Straw Bale		EA	\$ 31.00	=	\$ -		\$ -
Straw Wattle/Rock Sock	601	LF	\$ 7.00	=	\$ 4,207.00		\$ 4,207.00
Surface Roughening		AC	\$ 250.00	=	\$ -		\$ -
Temporary Erosion Control Blanket	32.0	SY	\$ 3.00	=	\$ 96.00		\$ 96.00
Temporary Seeding and Mulching	0.1	AC	\$ 1,666.00	=	\$ 166.60		\$ 166.60
Vehicle Tracking Control	1	EA	\$ 2,867.00	=	\$ 2,867.00		\$ 2,867.00
[insert items not listed but part of construction plans]				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ 5,397.56		\$ 5,397.56
MAINTENANCE (35% of Construction BMPs)				=	\$ 5,397.56		\$ 5,397.56
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED).							
Section 1 Subtotal				=	\$ 67,113.16		\$ 67,113.16

SECTION 2 - PUBLIC IMPROVEMENTS *

ROADWAY IMPROVEMENTS							
Construction Traffic Control		LS		=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 34.00	=	\$ -		\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 61.00	=	\$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 17.00	=	\$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 23.00	=	\$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 35.00	=	\$ -		\$ -
Asphalt Pavement (147 lbs/cf) <u>5" thick</u>		Tons	\$ 106.00	=	\$ -		\$ -
Raised Median, Paved		SF	\$ 10.00	=	\$ -		\$ -
Regulatory Sign/Advisory Sign		EA	\$ 364.00	=	\$ -		\$ -
Guide/Street Name Sign		EA		=	\$ -		\$ -
Epoxy Pavement Marking		SF	\$ 16.00	=	\$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 28.00	=	\$ -		\$ -
Barricade - Type 3		EA	\$ 241.00	=	\$ -		\$ -
Delineator - Type I		EA	\$ 29.00	=	\$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 35.00	=	\$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 35.00	=	\$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 35.00	=	\$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 58.00	=	\$ -		\$ -
5" Sidewalk		SY	\$ 72.00	=	\$ -		\$ -
6" Sidewalk		SY	\$ 87.00	=	\$ -		\$ -
8" Sidewalk		SY	\$ 116.00	=	\$ -		\$ -
Pedestrian Ramp		EA	\$ 1,390.00	=	\$ -		\$ -
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 73.00	=	\$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 111.00	=	\$ -		\$ -
Curb Opening with Drainage Chase		EA	\$ 1,790.00	=	\$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 60.00	=	\$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 87.00	=	\$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,538.00	=	\$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 4,556.00	=	\$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 95.00	=	\$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 97.00	=	\$ -		\$ -
Electrical Conduit, Size =		LF	\$ 20.00	=	\$ -		\$ -
Traffic Signal, (provide engineer's estimate)		EA		=	\$ -		\$ -

PROJECT INFORMATION

Project Name: Barbarick Transfer Station

Date: December 2023

PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
18" Reinforced Concrete Pipe		LF	\$ 76.00	=	\$ -		\$ -
24" Reinforced Concrete Pipe		LF	\$ 91.00	=	\$ -		\$ -
30" Reinforced Concrete Pipe		LF	\$ 114.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe		LF	\$ 140.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 187.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 228.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 297.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 348.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 402.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 460.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 98.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 112.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 143.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 171.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 197.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 207.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 304.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 328.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 397.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 467.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 537.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 642.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -
Flared End Section (FES) CSP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 6,703.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 8,715.00	=	\$ -		\$ -
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 10,092.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', Depth < 5'		EA	\$ 9,224.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'		EA	\$ 9,507.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 11,901.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', Depth < 5'		EA	\$ 11,995.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA	\$ 12,858.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 14,061.00	=	\$ -		\$ -
Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 12,783.00	=	\$ -		\$ -
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 14,109.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 5,611.00	=	\$ -		\$ -
Grated Inlet (Double Type C), Depth < 5'		EA	\$ 7,000.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,931.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 14,061.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 7,734.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 8.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"		Tons	\$ 97.00	=	\$ -		\$ -
Rip Rap, Grouted		Tons	\$ 115.00	=	\$ -		\$ -
Drainage Channel Construction, Size (W x H)		LF	\$ -	=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 689.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 135.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,776.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
				=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
Section 2 Subtotal				=	\$ -		\$ -

* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

PROJECT INFORMATION

Project Name: Barbarick Transfer Station

Date: December 2023

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							
Aggregate Base Course (135 lbs/cf)	962.0	Tons	\$ 34.00	=	\$ 32,708.00		\$ 32,708.00
Asphalt Pavement (147 lbs/cf) <u>5" thick</u>	872.0	Tons	\$ 106.00	=	\$ 92,432.00		\$ 92,432.00
Epoxy Pavement Marking	233.0	SF	\$ 16.00	=	\$ 3,728.00		\$ 3,728.00
Thermoplastic Pavement Marking	12.0	SF	\$ 28.00	=	\$ 336.00		\$ 336.00
Electrical Conduit, Size = 1"	1,030.0	LF	\$ 20.00	=	\$ 20,600.00		\$ 20,600.00
Electrical Conduit, Size = 2"	910.0	LF	\$ 20.00	=	\$ 18,200.00		\$ 18,200.00
MSE Block Retaining Wall (8' max)	1,400	SF	\$ 50.00	=	\$ 70,000.00		\$ 70,000.00
Concrete Retaining Wall (8' max)	985	SF	\$ 80.00	=	\$ 78,800.00		\$ 78,800.00
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
Grated Inlet (Double Type C), Depth < 5'	2	EA	\$ 7,000.00	=	\$ 14,000.00		\$ 14,000.00
Grated Inlet (Type C), Depth < 5'	2	EA	\$ 5,611.00	=	\$ 11,222.00		\$ 11,222.00
Storm Sewer Manhole, Box Base	2	EA	\$ 14,061.00	=	\$ 28,122.00		\$ 28,122.00
4" PVC Pipe	470	LF	\$ 70.00	=	\$ 32,900.00		\$ 32,900.00
6" PVC Pipe	205	LF	\$ 75.00	=	\$ 15,375.00		\$ 15,375.00
18" PVC Pipe	73	LF	\$ 80.00	=	\$ 5,840.00		\$ 5,840.00
24" PVC Pipe	454	LF	\$ 80.00	=	\$ 36,320.00		\$ 36,320.00
4' Concrete Drainage Pan (6", Fibermesh Reinforced)	848	LF	\$ 100.00	=	\$ 84,800.00		\$ 84,800.00
PVC FES	1	EA	\$ 800.00	=	\$ 800.00		\$ 800.00
Rip Rap, d50 size from 6" to 24"	20	Tons	\$ 97.00	=	\$ 1,940.00		\$ 1,940.00
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"		LF	\$ 78.00	=	\$ -		\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 91.00	=	\$ -		\$ -
Gate Valves, 8"		EA	\$ 2,247.00	=	\$ -		\$ -
Fire Hydrant Assembly, w/ all valves		EA	\$ 7,978.00	=	\$ -		\$ -
Water Service Line Installation, inc. tap and valves	2	EA	\$ 1,601.00	=	\$ 3,202.00		\$ 3,202.00
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	\$ 78.00	=	\$ -		\$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 5,305.00	=	\$ -		\$ -
Sanitary Service Line Installation, complete	1	EA	\$ 1,696.00	=	\$ 1,696.00		\$ 1,696.00
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)							
Trees (Ponderosa Pine)	34	EA	\$ 600.00	=	\$ 20,400.00		\$ 20,400.00
Seeding (EPC Low Grow Mix)	50,413	SF	\$ 0.50	=	\$ 25,206.50		\$ 25,206.50
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
Section 3 Subtotal				=	\$ 469,759.50		\$ 469,759.50

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

PROJECT INFORMATION

Project Name: Barbarick Transfer Station

Date: December 2023

PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% 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						\$ 536,872.66
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 536,872.66
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance						\$ 9,041.00
(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.

Please provide units costs for these two items. Needed since the pond is being modified - 2 new inflows points (1 pipe and 1 rundown) and a new restrictor plate. Since pond capacity isn't changing the as-built survey and pond cert can just be an addendum to the originals that just describes and certifies what changed.

 Engineer (P.E. Seal Required)

 Approved by Owner / Applicant

 Date

 Approved by El Paso County Engineer / ECM Administrator

 Date

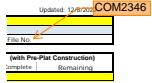
Financial Assurance Forms Comments.pdf Markup Summary

Glenn Reese - EPC Stormwater (5)



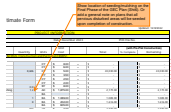
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Page Label: 1
Author: Glenn Reese - EPC Stormwater
Date: 1/24/2024 12:59:01 PM
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Please use the 2024 form:
<https://planningdevelopment.elpasoco.com/planning-development-forms/#1584029763943-19bc4c03-3586>



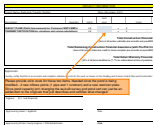
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Author: Glenn Reese - EPC Stormwater
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COM2346



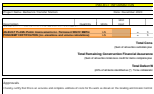
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Page Label: 1
Author: Glenn Reese - EPC Stormwater
Date: 1/24/2024 12:59:00 PM
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Show location of seeding/mulching on the Final Phase of the GEC Plan (Sht6). Or add a general note on plans that all pervious disturbed areas will be seeded upon completion of construction.



Subject: SW - Textbox with Arrow
Page Label: 4
Author: Glenn Reese - EPC Stormwater
Date: 1/25/2024 10:50:23 AM
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Please provide units costs for these two items. Needed since the pond is being modified - 2 new inflows points (1 pipe and 1 rundown) and a new restrictor plate. Since pond capacity isn't changing the as-built survey and pond cert can just be an addendum to the originals that just describes and certifies what changed.



Subject: SW - Rectangle
Page Label: 4
Author: Glenn Reese - EPC Stormwater
Date: 1/25/2024 10:49:01 AM
Color: ■