

# 2024 Financial Assurance Estimate Form (with pre-plat construction)

Updated: 10/2023

## PROJECT INFORMATION

<b>Grandview Reserve Water Treatment Plant</b>	<b>8/5/2024</b>	
<b>Project Name</b>	<b>Date</b>	<b>PCD File No.</b>

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	300	CY	\$ 8.00	\$ 5,300.00		\$ 5,300.00	*
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 Erosion Control Blanket	392	SY	\$ 9.00	\$ 3,532.00		\$ 3,532.00	*
Permanent Seeding (inc. noxious weed mgmnt.) & Mulching	1.19	AC	\$ 2,018.00	\$ 2,396.17		\$ 2,396.17	*
Permanent Pond/BMP (provide engineer's estimate)		EA		\$ -		\$ -	*
Concrete Washout Basin	1	EA	\$ 1,172.00	\$ 1,172.00		\$ 1,172.00	*
Inlet Protection	1	EA	\$ 217.00	\$ 217.00		\$ 217.00	*
Rock Check Dam		EA	\$ 651.00	\$ -		\$ -	*
Safety Fence		LF	\$ 3.00	\$ -		\$ -	*
Sediment Basin		EA	\$ 2,294.00	\$ -		\$ -	*
Sediment Trap		EA	\$ 538.00	\$ -		\$ -	*
Silt Fence	455	LF	\$ 3.00	\$ 1,365.00		\$ 1,365.00	*
Slope Drain		LF	\$ 43.00	\$ -		\$ -	*
Straw Bale		EA	\$ 33.00	\$ -		\$ -	*
Straw Wattle/Rock Sock		LF	\$ 8.00	\$ -		\$ -	*
Surface Roughening		AC	\$ 269.00	\$ -		\$ -	*
Temporary Erosion Control Blanket		SY	\$ 3.00	\$ -		\$ -	*
Temporary Seeding and Mulching		AC	\$ 1,793.00	\$ -		\$ -	*
Vehicle Tracking Control	1	EA	\$ 3,085.00	\$ 3,085.00		\$ 3,085.00	*
[insert items not listed but part of construction plans]				\$ -		\$ -	*
<b>MAINTENANCE (35% of Construction BMPs)</b>				\$ 1,633.45		\$ 1,633.45	*
<b>Section 1 Subtotal</b>				<b>\$ 18,700.62</b>		<b>\$ 18,700.62</b>	*

\* - 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		LS		\$ -		\$ -	*
Aggregate Base Course (135 lbs/cf)		Tons	\$ 37.00	\$ -		\$ -	*
Aggregate Base Course (135 lbs/cf)	85	CY	\$ 66.00	\$ 5,595.33		\$ 5,595.33	*
Asphalt Pavement (3" thick)		SY	\$ 18.00	\$ -		\$ -	*
Asphalt Pavement (4" thick)	509	SY	\$ 25.00	\$ 12,716.67		\$ 12,716.67	*
Asphalt Pavement (6" thick)		SY	\$ 38.00	\$ -		\$ -	*
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 114.00	\$ -		\$ -	*
Raised Median, Paved		SF	\$ 11.00	\$ -		\$ -	*
Regulatory Sign/Advisory Sign		EA	\$ 392.00	\$ -		\$ -	*
Guide/Street Name Sign		EA		\$ -		\$ -	*
Epoxy Pavement Marking		SF	\$ 17.00	\$ -		\$ -	*
Thermoplastic Pavement Marking		SF	\$ 30.00	\$ -		\$ -	*
Barricade - Type 3		EA	\$ 259.00	\$ -		\$ -	*
Delineator - Type I		EA	\$ 31.00	\$ -		\$ -	*
Curb and Gutter, Type A (6" Vertical)		LF	\$ 38.00	\$ -		\$ -	*
Curb and Gutter, Type B (Median)		LF	\$ 38.00	\$ -		\$ -	*
Curb and Gutter, Type C (Ramp)		LF	\$ 38.00	\$ -		\$ -	*
4" Sidewalk (common areas only)		SY	\$ 62.00	\$ -		\$ -	*
5" Sidewalk		SY	\$ 77.00	\$ -		\$ -	*
6" Sidewalk		SY	\$ 94.00	\$ -		\$ -	*
8" Sidewalk		SY	\$ 125.00	\$ -		\$ -	*
Pedestrian Ramp		EA	\$ 1,496.00	\$ -		\$ -	*
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 79.00	\$ -		\$ -	*
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 119.00	\$ -		\$ -	*
Curb Opening with Drainage Chase		EA	\$ 1,926.00	\$ -		\$ -	*
Guardrail Type 3 (W-Beam)		LF	\$ 65.00	\$ -		\$ -	*
Guardrail Type 7 (Concrete)		LF	\$ 94.00	\$ -		\$ -	*
Guardrail End Anchorage		EA	\$ 2,731.00	\$ -		\$ -	*
Guardrail Impact Attenuator		EA	\$ 4,902.00	\$ -		\$ -	*
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 102.00	\$ -		\$ -	*
Sound Barrier Fence (panels, 6' high)		LF	\$ 104.00	\$ -		\$ -	*
Electrical Conduit, Size =		LF	\$ 22.00	\$ -		\$ -	*
Traffic Signal, (provide engineer's estimate)		EA		\$ -		\$ -	*

A	B	C	D	E	F	G	H	I	J	K
3	<b>PROJECT INFORMATION</b>									
4	<b>Grandview Reserve Water Treatment Plant</b>			<b>8/5/2024</b>						
5	<b>Project Name</b>			<b>Date</b>			<b>PCD File No.</b>			
6										
7										
8	<b>Description</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>		<b>Total</b>	<b>(with Pre-Piat Construction)</b>		<b>% Complete</b>	<b>Remaining</b>
75					=	\$ -				\$ -
76	<i>[insert items not listed but part of construction plans]</i>				=	\$ -				\$ -
77	<b>STORM DRAIN IMPROVEMENTS</b>									
79	Concrete Box Culvert (M Standard), Size ( W x H )		LF		=	\$ -				\$ -
80	18" Reinforced Concrete Pipe		LF	\$ 82.00	=	\$ -				\$ -
81	24" Reinforced Concrete Pipe		LF	\$ 98.00	=	\$ -				\$ -
82	30" Reinforced Concrete Pipe		LF	\$ 123.00	=	\$ -				\$ -
83	36" Reinforced Concrete Pipe		LF	\$ 151.00	=	\$ -				\$ -
84	42" Reinforced Concrete Pipe		LF	\$ 201.00	=	\$ -				\$ -
85	48" Reinforced Concrete Pipe		LF	\$ 245.00	=	\$ -				\$ -
86	54" Reinforced Concrete Pipe		LF	\$ 320.00	=	\$ -				\$ -
87	60" Reinforced Concrete Pipe		LF	\$ 374.00	=	\$ -				\$ -
88	66" Reinforced Concrete Pipe		LF	\$ 433.00	=	\$ -				\$ -
89	72" Reinforced Concrete Pipe		LF	\$ 495.00	=	\$ -				\$ -
90	18" Corrugated Steel Pipe		LF	\$ 105.00	=	\$ -				\$ -
91	24" Corrugated Steel Pipe		LF	\$ 121.00	=	\$ -				\$ -
92	30" Corrugated Steel Pipe		LF	\$ 154.00	=	\$ -				\$ -
93	36" Corrugated Steel Pipe		LF	\$ 184.00	=	\$ -				\$ -
94	42" Corrugated Steel Pipe		LF	\$ 212.00	=	\$ -				\$ -
95	48" Corrugated Steel Pipe		LF	\$ 223.00	=	\$ -				\$ -
96	54" Corrugated Steel Pipe		LF	\$ 327.00	=	\$ -				\$ -
97	60" Corrugated Steel Pipe		LF	\$ 353.00	=	\$ -				\$ -
98	66" Corrugated Steel Pipe		LF	\$ 427.00	=	\$ -				\$ -
99	72" Corrugated Steel Pipe		LF	\$ 502.00	=	\$ -				\$ -
100	78" Corrugated Steel Pipe		LF	\$ 578.00	=	\$ -				\$ -
101	84" Corrugated Steel Pipe		LF	\$ 691.00	=	\$ -				\$ -
102	Flared End Section (FES) RCP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -				\$ -
103	Flared End Section (FES) CSP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -				\$ -
104	End Treatment- Headwall		EA		=	\$ -				\$ -
105	End Treatment- Wingwall		EA		=	\$ -				\$ -
106	End Treatment - Cutoff Wall		EA		=	\$ -				\$ -
107	Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 7,212.00	=	\$ -				\$ -
108	Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 9,377.00	=	\$ -				\$ -
109	Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'		EA	\$ 10,859.00	=	\$ -				\$ -
110	Curb Inlet (Type R) L =10', Depth < 5'		EA	\$ 9,925.00	=	\$ -				\$ -
111	Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'		EA	\$ 10,230.00	=	\$ -				\$ -
112	Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'		EA	\$ 12,805.00	=	\$ -				\$ -
113	Curb Inlet (Type R) L =15', Depth < 5'		EA	\$ 12,907.00	=	\$ -				\$ -
114	Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'		EA	\$ 13,835.00	=	\$ -				\$ -
115	Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'		EA	\$ 15,130.00	=	\$ -				\$ -
116	Curb Inlet (Type R) L =20', Depth < 5'		EA	\$ 13,755.00	=	\$ -				\$ -
117	Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'		EA	\$ 15,181.00	=	\$ -				\$ -
118	Grated Inlet (Type C), Depth < 5'		EA	\$ 6,037.00	=	\$ -				\$ -
119	Grated Inlet (Type D), Depth < 5'		EA	\$ 7,458.00	=	\$ -				\$ -
120	Storm Sewer Manhole, Box Base		EA	\$ 15,130.00	=	\$ -				\$ -
121	Storm Sewer Manhole, Slab Base		EA	\$ 8,322.00	=	\$ -				\$ -
122	Geotextile (Erosion Control)		SY	\$ 9.00	=	\$ -				\$ -
123	Rip Rap, d50 size from 6" to 24"		Tons	\$ 104.00	=	\$ -				\$ -
124	Rip Rap, Grouted		Tons	\$ 124.00	=	\$ -				\$ -
125	Drainage Channel Construction, Size ( W x H )		LF		=	\$ -				\$ -
126	Drainage Channel Lining, Concrete		CY	\$ 741.00	=	\$ -				\$ -
127	Drainage Channel Lining, Rip Rap		CY	\$ 145.00	=	\$ -				\$ -
128	Drainage Channel Lining, Grass		AC	\$ 1,911.00	=	\$ -				\$ -
129	Drainage Channel Lining, Other Stabilization				=	\$ -				\$ -
130	6" HDPE Pipe	20	LF	\$ 25.00	=	\$ 500.00				\$ 500.00
131	<i>[insert items not listed but part of construction plans]</i>				=	\$ -				\$ -
132						<b>Section 2 Subtotal</b>	<b>= \$ 18,812.00</b>			<b>\$ 18,812.00</b>

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A	B	C	D	E	F	G	H	I	J	K
3	<b>PROJECT INFORMATION</b>									
4	<b>Grandview Reserve Water Treatment Plant</b>			<b>8/5/2024</b>						
5	<b>Project Name</b>			<b>Date</b>			<b>PCD File No.</b>			
6										
7										
8	<b>Description</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>		<b>Total</b>	<b>(with Pre-Plat Construction)</b>			
133	<b>SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**</b>									
134	<b>ROADWAY IMPROVEMENTS</b>									
136					=	\$ -			\$ -	
137					=	\$ -			\$ -	
138					=	\$ -			\$ -	
139					=	\$ -			\$ -	
140					=	\$ -			\$ -	
141					=	\$ -			\$ -	
142	<b>STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)</b>									
143					=	\$ -			\$ -	
144					=	\$ -			\$ -	
145					=	\$ -			\$ -	
146					=	\$ -			\$ -	
147					=	\$ -			\$ -	
148					=	\$ -			\$ -	
149	<b>WATER SYSTEM IMPROVEMENTS</b>									
150	Water Main Pipe (PVC), Size 8"		LF	\$ 84.00	=	\$ -			\$ -	
151	Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 98.00	=	\$ -			\$ -	
152	Gate Valves, 8"		EA	\$ 2,418.00	=	\$ -			\$ -	
153	Fire Hydrant Assembly, w/ all valves		EA	\$ 8,584.00	=	\$ -			\$ -	
154	Water Service Line Installation, inc. tap and valves		EA	\$ 1,723.00	=	\$ -			\$ -	
155	Fire Cistern Installation, complete		EA		=	\$ -			\$ -	
156	Water Main Pipe (PVC), Size 10"	901	LF	\$ 105.00	=	\$ 94,605.00			\$ 94,605.00	
157	Water Main Pipe (PVC), Size 4"	50	LF	\$ 42.00	=	\$ 2,100.00			\$ 2,100.00	
158	Water Main Pipe (PVC), Size 3"	65	LF	\$ 32.00	=	\$ 2,080.00			\$ 2,080.00	
159	Water Main Pipe (PVC), Size 2"	52	LF	\$ 21.00	=	\$ 1,092.00			\$ 1,092.00	
160					=	\$ -			\$ -	
161	<i>[insert items not listed but part of construction plans]</i>									
161					=	\$ -			\$ -	
162	<b>SANITARY SEWER IMPROVEMENTS</b>									
163	Sewer Main Pipe (PVC), Size 8"		LF	\$ 84.00	=	\$ -			\$ -	
164	Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 5,708.00	=	\$ -			\$ -	
165	Sanitary Service Line Installation, complete		EA	\$ 1,825.00	=	\$ -			\$ -	
166	Sanitary Sewer Lift Station, complete		EA	\$ 7,465,000.00	=	\$ -			\$ -	
167	Sewer Main Pipe (PVC), Size 18"		LF	\$ 150.00	=	\$ -			\$ -	
168	Sewer Main Pipe (PVC), Size 14"		LF	\$ 123.00	=	\$ -			\$ -	
169	Sewer Main Pipe (PVC), Size 6"	112	LF	\$ 63.00	=	\$ 7,056.00			\$ 7,056.00	
170	Sewer Main Pipe (PVC), Size 4"	69	LF	\$ 42.00	=	\$ 2,898.00			\$ 2,898.00	
171					=	\$ -			\$ -	
172	<i>[insert items not listed but part of construction plans]</i>									
172					=	\$ -			\$ -	
173	<b>LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)</b>									
174			EA		=	\$ -			\$ -	
175			EA		=	\$ -			\$ -	
176			EA		=	\$ -			\$ -	
177			EA		=	\$ -			\$ -	
178			EA		=	\$ -			\$ -	
179	<b>Section 3 Subtotal</b>					<b>=</b>	<b>\$ 109,831.00</b>		<b>\$ 109,831.00</b>	

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

	A	B	C	D	E	F	G	H	I	J	K
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5		<b>Project Name</b>			<b>Date</b>			<b>PCD File No.</b>			
6											
7											
8		<b>Description</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>		<b>Total</b>	<b>(with Pre-Plat Construction)</b>			
180								<b>% Complete</b>	<b>Remaining</b>		
181		AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)				=	\$ -		\$ -		
182		POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		=	\$ -		\$ -		
183		<b>Total Construction Financial Assurance \$ 147,343.62</b>									
184		(Sum of all section subtotals plus as-builts and pond/BMP certification)									
185		<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction) \$ 147,343.62</b>									
186		(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)									
187		<b>Total Defect Warranty Financial Assurance \$ 6,008.03</b>									
188		(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)									
189											
190											
191											
192											
193											
194		<b>Approvals</b>									
195		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.									
196											
197											
198											
199											
200											
201											
202											
203		_____ Engineer (P.E. Seal Required)									
204											
205											
206											
207		_____ Approved by Owner / Applicant					_____ Date				
208											
209											
210											
211		_____ Approved by El Paso County Engineer / ECM Administrator					_____ Date				
212											

# Financial Assurance – Assumptions

## Water Treatment Plant

*The following assumptions were made to estimate the cost of specific materials for the financial assurance form:*

- Earthwork based on minimal site grading, mainly for the treatment tank. (Section 1, Row 12)
- Asphalt Pavement and Aggregate Base Course:
  - Pavement thickness was assumed to be 4” thick (Section 2, Row 46)
  - Base Course was assumed to be 6” thick based on minimum standards in El Paso County Criteria (Section 2, Row 44)
- 6-in HDPE pipe listed for stormwater drain in southeast corner of project site. Cost estimated at \$25/LF with construction cost considered. (Section 2, Row 130)
- The 2024 Financial Assurance Form has 8” Water Main Pipe (PVC) listed as \$84/LF. Therefore, it was assumed that PVC pipes cost increased by approximately \$10.50 per inch of diameter. The following assumptions were made:
  - Water Main Pipe (PVC), Size 2” - \$21/LF (Section 3, Row 159)
  - Water Main Pipe (PVC), Size 3” - \$32/LF (Section 3, Row 158)
  - Water Main Pipe (PVC), Size 4” - \$42/LF (Section 3, Row 157)
  - Water Main Pipe (PVC), Size 10” - \$105/LF (Section 3, Row 156)
  - Sewer Main Pipe (PVC), Size 4” - \$42/LF (Section 3, Row 170)
  - Sewer Main Pipe (PVC), Size 6” - \$63/LF (Section 3, Row 169)