

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

Updated: 12/8/2022

PROJECT INFORMATION		
Briargate Parkway (Vollmer-Wheatland) CDR 221	3/9/2023	SF2213
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	4,518	CY	\$ 6.00	= \$ 27,108.00		\$ 27,108.00
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		SY	\$ 8.00	= \$ -		\$ -
Permanent Seeding (inc. noxious weed mgmnt.) & Mulching		AC	\$ 1,875.00	= \$ -		\$ -
Permanent Pond/BMP (provide engineer's estimate)		EA		= \$ -		\$ -
Concrete Washout Basin		EA	\$ 1,089.00	= \$ -		\$ -
Inlet Protection		EA	\$ 202.00	= \$ -		\$ -
Rock Check Dam		EA	\$ 605.00	= \$ -		\$ -
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Sediment Basin		EA	\$ 2,132.00	= \$ -		\$ -
Sediment Trap		EA	\$ 500.00	= \$ -		\$ -
Silt Fence		LF	\$ 3.00	= \$ -		\$ -
Slope Drain		LF	\$ 40.00	= \$ -		\$ -
Straw Bale		EA	\$ 31.00	= \$ -		\$ -
Straw Wattle/Rock Sock		LF	\$ 7.00	= \$ -		\$ -
Surface Roughening		AC	\$ 250.00	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Temporary Seeding and Mulching		AC	\$ 1,666.00	= \$ -		\$ -
Vehicle Tracking Control		EA	\$ 2,867.00	= \$ -		\$ -
<i>(insert items not listed but part of construction plans)</i>				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ -		\$ -
* Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED).						
Section 1 Subtotal				= \$ 27,108.00		\$ 27,108.00

SECTION 2 - PUBLIC IMPROVEMENTS *						
ROADWAY IMPROVEMENTS						
Construction Traffic Control	1	LS	\$ 10,000.00	= \$ 10,000.00		\$ 10,000.00
Aggregate Base Course (135 lbs/cf)		Tons	\$ 34.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)	2,276	CY	\$ 61.00	= \$ 138,836.00		\$ 138,836.00
Asphalt Pavement (3" thick)		SY	\$ 17.00	= \$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 23.00	= \$ -		\$ -
Asphalt Pavement (6" thick)	9,106	SY	\$ 35.00	= \$ 318,710.00		\$ 318,710.00
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 106.00	= \$ -		\$ -
Raised Median, Paved		SF	\$ 10.00	= \$ -		\$ -
Regulatory Sign/Advisory Sign	11	EA	\$ 364.00	= \$ 4,004.00		\$ 4,004.00
Guide/Street Name Sign	4	EA	\$ 437.00	= \$ 1,748.00		\$ 1,748.00
Epoxy Pavement Marking	2,651	SF	\$ 16.00	= \$ 42,416.00		\$ 42,416.00
Thermoplastic Pavement Marking	115	SF	\$ 28.00	= \$ 3,220.00		\$ 3,220.00
Barricade - Type 3		EA	\$ 241.00	= \$ -		\$ -
Delineator - Type I		EA	\$ 29.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	1,718	LF	\$ 35.00	= \$ 60,130.00	30.00%	\$ 42,091.00
Curb and Gutter, Type B (Median)	1,166	LF	\$ 35.00	= \$ 40,810.00		\$ 40,810.00
Curb and Gutter, Type C (Ramp)		LF	\$ 35.00	= \$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 58.00	= \$ -		\$ -
5" Sidewalk	1,247	SY	\$ 72.00	= \$ 89,784.00		\$ 89,784.00
6" Sidewalk		SY	\$ 87.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 116.00	= \$ -		\$ -
Pedestrian Ramp	9	EA	\$ 1,390.00	= \$ 12,510.00		\$ 12,510.00
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 73.00	= \$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)	215	LF	\$ 111.00	= \$ 23,865.00		\$ 23,865.00
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		= \$ -		\$ -

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3/9/2023

SF2213

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Date

PCD File No.

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					% 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 (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>				\$ -		\$ -
<i>* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)</i>						
Section 2 Subtotal				\$ 746,033.00		\$ 727,994.00

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3/9/2023

SF2213

Project Name

Date

PCD File No.

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						% Complete	Remaining
SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**							
ROADWAY IMPROVEMENTS							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS (Exception: Permanent Pond/BMP shall be itemized under Section 1)							
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
				=	\$ -		\$ -
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	775	LF	\$ 78.00	=	\$ 60,450.00		\$ 60,450.00
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		EA	\$ 1,601.00	=	\$ -		\$ -
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"	782	LF	\$ 78.00	=	\$ 60,996.00		\$ 60,996.00
Sanitary Sewer Manhole, Depth < 15 feet	2	EA	\$ 5,305.00	=	\$ 10,610.00		\$ 10,610.00
Sanitary Service Line Installation, complete		EA	\$ 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)							
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
		EA		=	\$ -		\$ -
Section 3 Subtotal					= \$ 132,056.00		\$ 132,056.00

** Section 3 is not subject to defect warranty requirements

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Project Name	Date	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	\$ 10,000.00	= \$ 10,000.00	\$	10,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		= \$	\$	
Total Construction Financial Assurance						\$ 915,197.00
<small>(Sum of all section subtotals plus as-builts and pond/BMP certification)</small>						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 897,158.00
<small>(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)</small>						
Total Defect Warranty Financial Assurance						\$ 154,628.20
<small>(20% of all items identified as (*) To be collateralized at time of preliminary acceptance)</small>						

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.

Mik Brubett


Engineer (P.E. Seal Required)

Janet Nijkamp

Approved by Owner / Applicant


3/21/2023

Date



Approved

By: Elizabeth Nijkamp, PE
Date: 04/11/2023
El Paso County Department of Public Works



* Conditions:

1. Construction drawings for the segment of Briargate Parkway from Vollmer Road to Wheatland Drive (to which this FAE applies) shall be approved prior to issuance of any building permit in Homestead North at Sterling Ranch.