

JR - Added Forebay-Trickle Channel cost

provide new forebay and trickle channel

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

Updated: 12/8/2022

PROJECT INFORMATION		
Sterling Ranch Filing #	8/14/2023	SF-22-030
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plate 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	72,572	CY	\$ 2.50	= \$	181,430.00	50.00%
greater than 200,000, \$500,000 min		CY	\$ 2.00	= \$		\$
Permanent Erosion Control Blanket		SY	\$ 8.00	= \$		\$
Permanent Seeding (inc. noxious weed mgmt.) & Mulching		AC	\$ 1,675.00	= \$	15,543.75	\$
Permanent Pond/BMP (provide engineer's estimate)		EA		= \$		\$
Concrete Washout Basin	3	EA	\$ 1,089.00	= \$	3,267.00	\$
Inlet/Outlet Protection	25	EA	\$ 202.00	= \$	5,050.00	\$
Rock Check Dam		EA	\$ 605.00	= \$		\$
Safety Fence		LF	\$ 3.00	= \$		\$
Sediment Basin		EA	\$ 2,132.00	= \$		\$
Sediment Trap		EA	\$ 500.00	= \$		\$
Silt Fence	7,288	LF	\$ 3.00	= \$	21,864.00	\$
Slope Drain		LF	\$ 40.00	= \$		\$
Straw Bale		EA	\$ 31.00	= \$		\$
Straw Wattle/Rock Sock	797	LF	\$ 7.00	= \$	5,579.00	\$
Surface Roughening		AC	\$ 250.00	= \$		\$
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$		\$
Temporary Seeding and Mulching	22	AC	\$ 1,666.00	= \$	37,151.80	\$
Vehicle Tracking Control	4	EA	\$ 2,867.00	= \$	11,468.00	\$
<i>(insert items not listed but part of construction plans)</i>						
<b>MAINTENANCE (35% of Construction BMPs)</b>				= \$	28,389.48	\$
<b>Section 1 Subtotal</b>				= \$	<b>309,743.03</b>	<b>\$ 219,028.03</b>

JR - addressed

show all decimals or round off

**SECTION 2 - PUBLIC IMPROVEMENTS \***

<b>ROADWAY IMPROVEMENTS</b>						
Construction Traffic Control	1	LS	\$ 5,000.00	= \$	5,000.00	\$ 5,000.00
Aggregate Base Course (135 lbs/cf)		Tons	\$ 34.00	= \$		\$
Aggregate Base Course (9") (135 lbs/cf)	4,644	CY	\$ 61.00	= \$	283,284.00	\$ 283,284.00
Asphalt Pavement (3" thick)		SY	\$ 17.00	= \$		\$
Asphalt Pavement (4" thick)		SY	\$ 23.00	= \$		\$
Asphalt Pavement (6" thick)	18,577	SY	\$ 35.00	= \$	650,195.00	\$ 650,195.00
Asphalt Pavement (147 lbs/cf) 4" thick		Tons	\$ 106.00	= \$		\$
Raised Median, Paved		SF	\$ 10.00	= \$		\$
Regulatory Sign/Advisory Sign	12	EA	\$ 364.00	= \$	4,368.00	\$ 4,368.00
Guide/Street Name Sign	18	EA		= \$		\$
Epoxy Pavement Marking		SF	\$ 15.00	= \$		\$
Thermoplastic Pavement Marking		SF	\$ 28.00	= \$		\$
Barricade - Type 3	1	EA	\$ 241.00	= \$	241.00	\$ 241.00
Delineator - Type I		EA	\$ 29.00	= \$		\$
Curb and Gutter, Type A (6" Vertical)	4,922	LF	\$ 35.00	= \$	172,270.00	\$ 172,270.00
Curb and Gutter, Type B (Median)		LF	\$ 35.00	= \$		\$
Curb and Gutter, Type C (Ramp)	7,175	LF	\$ 35.00	= \$	251,125.00	\$ 251,125.00
4" Sidewalk (common areas only)		SY	\$ 58.00	= \$		\$
5" Sidewalk	5,618	SY	\$ 72.00	= \$	404,496.00	\$ 404,496.00
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)	26	LF	\$ 73.00	= \$	1,898.00	\$ 1,898.00
Cross Pan, collector (9" thick, 8' wide to include return)	136	LF	\$ 111.00	= \$	15,096.00	\$ 15,096.00
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		= \$		\$

add cost

JR - addressed

PROJECT INFORMATION							
Sterling Ranch Filing 4		8/14/2023		SF-22-030			
Project Name		Date		PCD File No.			
Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)		
					% Complete	Remaining	
[insert items not listed but part of construction plans]							
<b>STORM DRAIN IMPROVEMENTS</b>							
Concrete Box Culvert (M Standard), Size ( W x H )		LF					
18" Reinforced Concrete Pipe	435	LF	\$ 76.00	\$ 33,060.00		\$ 33,060.00	
24" Reinforced Concrete Pipe	541	LF	\$ 91.00	\$ 49,231.00		\$ 49,231.00	
30" Reinforced Concrete Pipe	12	LF	\$ 114.00	\$ 1,368.00		\$ 1,368.00	
36" Reinforced Concrete Pipe	1,896	LF	\$ 140.00	\$ 265,440.00		\$ 265,440.00	
42" Reinforced Concrete Pipe	339	LF	\$ 187.00	\$ 63,393.00		\$ 63,393.00	
48" Reinforced Concrete Pipe	31	LF	\$ 228.00	\$ 7,068.00		\$ 7,068.00	
54" Reinforced Concrete Pipe		LF	\$ 297.00				
60" Reinforced Concrete Pipe		LF	\$ 348.00				
66" Reinforced Concrete Pipe	20	LF	\$ 402.00	\$ 8,040.00		\$ 8,040.00	
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 = 18	2	EA	\$ 400.00	\$ 800.00		\$ 800.00	
<small>(unit cost = 6x pipe unit cost)</small>							
Flared End Section (FES) CSP Size = 24	2	EA	\$ 500.00	\$ 1,000.00		\$ 1,000.00	
<small>(unit cost = 6x pipe unit cost)</small>							
End Treatment- Headwall		EA					
End Treatment- Wingwall		EA					
End Treatment - Cutoff Wall		EA					
Curb Inlet (Type R) L=5', Depth < 5'	1	EA	\$ 6,703.00	\$ 6,703.00		\$ 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'	2	EA	\$ 9,224.00	\$ 18,448.00		\$ 18,448.00	
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'	5	EA	\$ 11,995.00	\$ 59,975.00		\$ 59,975.00	
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'	3	EA	\$ 12,858.00	\$ 38,574.00		\$ 38,574.00	
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'	3	EA	\$ 5,611.00	\$ 16,833.00		\$ 16,833.00	
Grated Inlet (Type D), Depth < 5'		EA	\$ 6,931.00				
Storm Sewer Manhole, Box Base	14	EA	\$ 14,061.00	\$ 196,854.00		\$ 196,854.00	
Storm Sewer Manhole, Slab Base	7	EA	\$ 7,734.00	\$ 54,138.00		\$ 54,138.00	
Geotextile (Erosion Control)		SY	\$ 8.00				
Rip Rap, #50 size from 3" to 24"		Tons	\$ 97.00				
Rip Rap, Grouted		Tons	\$ 115.00				
Drainage Channel Construction, Size ( W x H )		LF	\$ -				
Drainage Channel Lining, Concrete	70	CY	\$ 689.00	\$ 48,230.00		\$ 48,230.00	
Drainage Channel Lining, Rip Rap	403	CY	\$ 135.00	\$ 54,405.00		\$ 54,405.00	
Drainage Channel Lining, Grass		AC	\$ 1,776.00				
Drainage Channel Lining, Other Stabilization							
[insert items not listed but part of construction plans]							
<small>* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)</small>							
<b>Section 2 Subtotal</b>				<b>\$ 2,711,533.00</b>		<b>\$ 2,711,533.00</b>	

needed under riprap?

JR - added to FAE



**PROJECT INFORMATION**

Sterling Ranch Filling 4	8/14/2023	SF-22-030
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		= \$ -		\$ -
<b>Total Construction Financial Assurance</b>						<b>\$ 4,723,516.03</b>
<small>(Sum of all section subtotals plus as-builts and pond/BMP certification)</small>						
<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction)</b>						<b>\$ 4,632,801.03</b>
<small>(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)</small>						
<b>Total Defect Warranty Financial Assurance</b>						<b>\$ 581,701.35</b>
<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.

Engineer (P.E. Seal Required)

Mike Bramlett

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Approved by Owner / Applicant

[Signature]

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Approved by El Paso County Engineer / ECM Administrator

8/14/23

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Date

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Date

