

2021 Financial Assurance Estimate Form
(with pre-plat construction)

Updated: 12/22/2020

PROJECT INFORMATION		
Sterling Ranch Phase 2 Early Grading and Utilities	7/29/2021	SP-20-003
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		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	60,500	CY	\$ 2.50	= \$ 175,000.00	40.00%	\$ 105,000.00
greater than 200,000; \$500,000 min		CY	\$ 2.00	= \$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)	3	AC	\$ 828.00	= \$ 2,484.00		\$ 2,484.00
* Mulching	3	AC	\$ 777.00	= \$ 2,331.00		\$ 2,331.00
* Permanent Erosion Control Blanket		SY	\$ 6.00	= \$ -		\$ -
* Permanent Pond/BMP Construction		CY	\$ 21.00	= \$ -		\$ -
* Permanent Pond/BMP (Spillway)		EA	\$ 10,000.00	= \$ -		\$ -
* Permanent Pond/BMP (Outlet Structure)		EA	\$ 15,000.00	= \$ -		\$ -
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Temporary Erosion Control Blanket	4,000	SY	\$ 3.00	= \$ 12,000.00		\$ 12,000.00
Vehicle Tracking Control	2	EA	\$ 2,453.00	= \$ 4,906.00		\$ 4,906.00
Silt Fence	1,700	LF	\$ 2.60	= \$ 4,420.00		\$ 4,420.00
Temporary Seeding	10	AC	\$ 650.00	= \$ 6,500.00		\$ 6,500.00
Temporary Mulch	10	AC	\$ 777.00	= \$ 7,770.00		\$ 7,770.00
Erosion Bales	16	EA	\$ 26.00	= \$ 416.00		\$ 416.00
Erosion Logs/Straw Waddle		LF	\$ 5.00	= \$ -		\$ -
Rock Check Dams	13	EA	\$ 518.00	= \$ 6,734.00		\$ 6,734.00
Inlet Protection	5	EA	\$ 173.00	= \$ 865.00		\$ 865.00
Sediment Basin		EA	\$ 1,824.00	= \$ -		\$ -
Concrete Washout Basin	1	EA	\$ 932.00	= \$ 932.00		\$ 932.00
[insert items not listed but part of construction plans]				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ 15,590.05		\$ 15,590.05
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)						
Section 1 Subtotal				= \$ 239,948.05		\$ 169,948.05

SECTION 2 - PUBLIC IMPROVEMENTS *						
ROADWAY IMPROVEMENTS						
Construction Traffic Control		LS	\$ 5,000.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 29.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 52.00	= \$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.50	= \$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 20.00	= \$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 30.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) * thick		Tons	\$ 91.00	= \$ -		\$ -
Raised Median, Paved		SF	\$ 8.30	= \$ -		\$ -
Regulatory Sign/Advisory Sign		EA	\$ 311.00	= \$ -		\$ -
Guide/Street Name Sign		EA	\$ 200.00	= \$ -		\$ -
Epoxy Pavement Marking	4	SF	\$ 14.00	= \$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 24.00	= \$ -		\$ -
Barricade - Type 3		EA	\$ 207.00	= \$ -		\$ -
Delineator - Type I		EA	\$ 25.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 31.00	= \$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 31.00	= \$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 31.00	= \$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 50.00	= \$ -		\$ -
5" Sidewalk		SY	\$ 62.00	= \$ -		\$ -
6" Sidewalk		SY	\$ 75.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 99.00	= \$ -		\$ -
Pedestrian Ramp		EA	\$ 1,190.00	= \$ -		\$ -
Cross Pan. local (8" thick, 6' wide to include return)		LF	\$ 63.00	= \$ -		\$ -
Cross Pan. collector (9" thick, 8' wide to include return)		LF	\$ 95.00	= \$ -		\$ -
Curb Chase		EA	\$ 1,532.00	= \$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 51.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 75.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,172.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,899.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 81.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 83.00	= \$ -		\$ -
Electrical Conduit, Size =		LF	\$ 17.00	= \$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 439,875	= \$ -		\$ -

PROJECT INFORMATION

Sterling Ranch Phase 2 Early Grading and Utilities

7/29/2021

SP-20-003

Project Name

Date

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	\$ 67.00			
24" Reinforced Concrete Pipe		LF	\$ 81.00			
30" Reinforced Concrete Pipe		LF	\$ 100.00			
36" Reinforced Concrete Pipe		LF	\$ 124.00			
42" Reinforced Concrete Pipe		LF	\$ 166.00			
48" Reinforced Concrete Pipe		LF	\$ 202.00			
54" Reinforced Concrete Pipe		LF	\$ 254.00			
60" Reinforced Concrete Pipe		LF	\$ 298.00			
66" Reinforced Concrete Pipe		LF	\$ 344.00			
72" Reinforced Concrete Pipe		LF	\$ 393.00			
84" Reinforced Concrete Pipe		LF	\$ 520.00			
24" Corrugated Steel Pipe		LF	\$ 99.00			
30" Corrugated Steel Pipe		LF	\$ 126.00			
36" Corrugated Steel Pipe		LF	\$ 152.00			
42" Corrugated Steel Pipe		LF	\$ 174.00			
48" Corrugated Steel Pipe		LF	\$ 184.00			
54" Corrugated Steel Pipe		LF	\$ 269.00			
60" Corrugated Steel Pipe		LF	\$ 290.00			
66" Corrugated Steel Pipe		LF	\$ 352.00			
72" Corrugated Steel Pipe		LF	\$ 414.00			
78" Corrugated Steel Pipe		LF	\$ 476.00			
84" Corrugated Steel Pipe		LF	\$ 569.00			
Flared End Section (FES) RCP Size = 18 <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 960.00			
Flared End Section (FES) CSP Size = 24 <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 720.00			
Flared End Section (FES) RCP Size = 30 <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 582.00			
Flared End Section (FES) RCP Size = 18 <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 390.00			
Temp. (FES) RCP Size = 66 <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 1,992.00			
Temp. (FES) RCP Size = 72 <i>(unit cost = 6x pipe unit cost)</i>		EA	\$ 2,280.00			
End Treatment - Headwall		EA	\$ 10,000.00			
End Treatment - Wingwall		EA	\$ 18,000.00			
End Treatment - Cutoff Wall		EA	\$ 1,000.00			
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 5,736.00			
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,440.00			
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 8,637.00			
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 7,894.00			
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 8,136.00			
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 10,185.00			
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 10,265.00			
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 11,005.00			
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 12,034.00			
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 10,940.00			
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 12,075.00			
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,802.00			
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,932.00			
Storm Sewer Manhole, Box Base		EA	\$ 12,034.00			
Storm Sewer Manhole, Slab Base		EA	\$ 6,619.00			
Geotextile (Erosion Control)		SY	\$ 6.20			
Rip Rap d50 size from 6" to 24"		Tons	\$ 83.00			
Rip Rap Grouted		Tons	\$ 98.00			
Drainage Channel Construction, Size (W x H)		LF				
Drainage Channel Lining, Concrete		CY	\$ 590.00			
Drainage Channel Lining, Rip Rap		CY	\$ 116.00			
Drainage Channel Lining, Grass		AC	\$ 1,520.00			
Drainage Channel Lining, Other Stabilization						
<i>[insert items not listed but part of construction plans]</i>						
* Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)						
Section 2 Subtotal				=	\$ -	\$ -

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7/29/2021

SP-20-003

Project Name

Date

PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Flat Construction)	
					% 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"		LF	\$ 66.00	\$ -		\$ -
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 78.00	\$ -		\$ -
Gate Valves, 6"		EA	\$ 1,923.00	\$ -		\$ -
Fire Hydrant Assembly, w/ all valves		EA	\$ 6,828.00	\$ -		\$ -
Water Service Line Installation, inc. tap and valves		EA	\$ 1,370.00	\$ -		\$ -
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	\$ 66.00	\$ -		\$ -
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,540.00	\$ -		\$ -
Sanitary Service Line Installation, complete		EA	\$ 1,451.00	\$ -		\$ -
Sanitary Sewer Lift Station, complete		EA		\$ -		\$ -
Sewer Main Underdrains		LF	\$ 25.00	\$ -		\$ -
				\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				\$ -		\$ -
				\$ -		\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)						
		EA		\$ -		\$ -
		SF		\$ -		\$ -
		EA		\$ -		\$ -
		EA		\$ -		\$ -
		EA		\$ -		\$ -
				\$ -		\$ -
Section 3 Subtotal				= \$ -		\$ -

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

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					% 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					\$	239,948.05
<small>(Sum of all section subtotals plus as-builts and pond/BMP certification)</small>						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)					\$	169,948.05
<small>(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)</small>						
Total Defect Warranty Financial Assurance					\$	35,963.00
<small>(20% of all items identified as (P) to be completed 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.

Mike Rutledge



Engineer (P.E. Seal Required)

Jane Meyer

Approved by Owner / Applicant

Date

Approved by El Paso County Engineer / ECM Administrator

**APPROVED
Engineering Department**

*12/16/2021 12:35:13 PM
dsdnijkamp*

EPC Planning & Community
Development Department