## Provide temp seeping and mulching quantities for a project this large.

2018 Financial Assurance Estimate Form

(Basic form)

This aty and temp 3-12-2018 S&M should total at least as much as the disturbed acreage.

**Project Information** 

Sterling Ranch Filing No. 2

Project Name

Date

Section 1 - Grading and Erosion Control BMPs	Quantity	Units		Price			
Earthwork*	56,850,00	CY	@	\$ \$5	=	\$ 284,250.00	*
Permanent Seeding*	<b>35.</b> 00	AC	@	\$ \$582	=	\$ 20,370.00	*
Mulching*	35.00	AC	@	\$ \$507	=	\$ 17,745.00	*
Permanent Erosion Control Blanket	100,880.00	SY	@	\$ \$6	=	\$ 605,280.00	*
Temporary Erosion Control Blanket	67,681.00	SY	@	\$ \$3		\$ 203,043.00	
Vehicle Tracking Control	5.00	EA	@	\$ \$1,625	=	\$ 8,125.00	
Safety Fence		LF	@	\$ \$3	=	\$	
Silt Fence	9,682.00	LF	@	\$ \$4	=	\$ 38,728.00	
Temporary Seeding		AC	@	\$ \$485	=	\$	
Temporary Mulch		AC	@	\$ \$507	=	\$	
Erosion Bales	16.00	EA	@	\$ \$21	=	\$ 336.00	
Erosion Logs		LF	@	\$ \$6	=	\$	
Rock Ditch Checks	3.00	EA	@	\$ \$98	=	\$ 294.00	
Inlet Protection	16.00	EA	@	\$ \$153	=	\$ 2,448.00	
Sediment Basin	1.00	EA	@	\$ \$1,625	=	\$ 1,625.00	
Concrete Washout Basin	2.00	EA	@	\$ \$776	=	\$ 1,552.00	
			@	\$	=	\$	
pecified items subject to defect warranty financial assurance							
				Section 1 Subtota	al =	\$ 1,183,796.00	

More TSBs are required for this acreage

Section 2 - Public Improvements**	Quantity	Units		Price		
- Roadway Improvements						
Construction Traffic Control	1.00	LS	@	\$ 25,000	=	\$ 25,000.00
Aggregate Base Course - 8"	19,488.00	Tons	@	\$ \$18	=	\$ 350,784.00
Asphalt Pavement - 5"	16,443.00	Tons	@	\$ \$65	=	\$ 1,068,795.00
Raised Median, Paved	5,720.00	SF	@	\$ \$7	=	\$ 40,040.00
Electrical Conduit, Size =		LF	@	\$ \$14	=	\$
Traffic Signal, complete intersection		EA	@	\$ \$250,000	=	\$
Regulatory Sign	28.00	EA	@	\$ \$100	=	\$ 2,800.00
Advisory Sign		EA	@	\$ \$100	=	\$
Guide/Street Name Sign	17.00	EA	@	\$ \$200		\$ 3,400.00
Epoxy Pavement Marking	20,271.00	SF	@	\$ \$12	=	\$ 243,252.00
Thermoplastic Pavement Marking	1,008.00	SF	@	\$ \$22	=	\$ 22,176.00
Barricade - Type 3	6.00	EA	@	\$ \$115	=	\$ 690.00
Delineator (Type I)		EA	@	\$ \$21	=	\$
Curb and Gutter, Type C (Ramp)	3,480.00	LF	@	\$ \$21	=	\$ 73,080.00
Curb and Gutter, Type A (6" Vertical)	17,222.00	LF	@	\$ \$16	=	\$ 275,552.00
Curb and Gutter, Type B (Median)	1,400.00	LF	@	\$ \$13	=	\$ 18,200.00
Pedestrian Ramp	238.00	SY	@	\$ \$108	=	\$ 25,704.00

Break out all Vollmer Road improvements separately.

## Sidewalks can be in section 3. Provide qtys of 4" and 5"; costs are \$38 and \$58/SY respectively

Cross Pan	750.00	SY	@	\$	\$53	=	\$ 39,750.00
Sidewalks	10,355.00	LF	@	\$	\$23	=	\$ 238,165.00
Guardrail Type 3 (W-Beam)		LF	@	\$	\$18	=	\$
Guardrail Type 7 (Concrete)		LF	@	\$	\$67	=	\$
Guardrail End Anchorage		EA	@	\$	\$1,978	=	\$
Guardrail Impact Attenuator		EA	@	\$	\$3,564	=	\$
Sound Barrier Fence		LF	@	\$	\$100	=	\$
							•
- Storm Drain Improvements							
Concrete Box Culvert (M Standard), Size ( W x H )		LF	@	\$		=	\$
Reinforced Concrete Pipe (RCP) Size		LF	@	\$	•	=	\$
18" Reinforced Concrete Pipe	560.00	LF	@	\$	\$69	=	\$ 38,640.00
24" Reinforced Concrete Pipe	510.00	LF	@	\$	\$84	=	\$ 42,840.00
30" Reinforced Concrete Pipe	575.00	LF	@	\$	\$94	=	\$ 54,050.00
36" Reinforced Concrete Pipe	795.00	LF	@	\$	\$124	=	\$ 98,580.00
42" Reinforced Concrete Pipe	455.00	LF	@	\$	\$134	=	\$ 60,970.00
48" Reinforced Concrete Pipe	1,090.00	LF	@	\$	\$178	=	\$ 194,020.00
54" Reinforced Concrete Pipe	350.00	LF	@	\$	\$182	=	\$ 63,700.00
60" Reinforced Concrete Pipe		LF	@	\$	\$216	=	\$
66" Reinforced Concrete Pipe	1,860.00	LF	@	\$	\$263	=	\$ 489,180.00
72" Reinforced Concrete Pipe	2,577.00	LF	@	\$	\$283	=	\$ 729,291.00
78" Reinforced Concrete Pipe	208.00	LF	@	\$	\$330	=	\$ 68,640.00
84" Reinforced Concrete Pipe	108.00	LF	@	\$	\$380	=	\$ 41,040.00
Corrugated Steel Pipe (CSP) Size		LF	@	\$	,	=	\$
18" Corrugated Steel Pipe		LF	@	\$	\$66	=	\$
24" Corrugated Steel Pipe		LF	@	\$	\$96	=	\$
30" Corrugated Steel Pipe		LF	@	\$	\$101	=	\$
36" Corrugated Steel Pipe		LF	@	\$	\$136	=	\$
42" Corrugated Steel Pipe		LF	@	\$	\$147	=	\$
48" Corrugated Steel Pipe		LF	@	\$	\$169	=	\$
54" Corrugated Steel Pipe		LF	@	\$	\$193	=	\$
60" Corrugated Steel Pipe		LF	@	\$	\$227	=	\$
66" Corrugated Steel Pipe		LF	@	\$	\$278	=	\$
72" Corrugated Steel Pipe		LF	@	\$	\$330	=	\$
78" Corrugated Steel Pipe		LF	@	\$	\$381	=	\$
84" Corrugated Steel Pipe		LF	@	\$	\$432	=	\$
Flared End Section (FES) RCP	10.00	EA	@	\$	1,800	=	\$ 18,000.00
	10.00		@	\$ \$	1,000	=	
Flared End Section (FES) CSP + End Treatment- Headwall	2.00	EA EA	@	\$ \$	5,000	=	\$ \$ 10,000.00
	2.00		@	_	9,000	=	
End Treatment - Cutoff Well	3.00	EΑ	@	<u>\$</u> \$	500	-	
End Treatment - Cutoff Wall	3.00	EA	@	_		=	
Curb lalet (Type R) L=5', Depth < 5 feet	<del> </del>	EA		\$	\$3,791	-	\$ ¢
Curb Inlet (Type R) L =5', 5'-10' Depth	<del> </del>	EA	@ @	\$	\$5,044		\$ ¢
Curb Inlet (Type R) L =5' , 10'-15' Depth	2.00	EA		\$	\$6,027	=	\$ \$ 16 F94 00
Curb Inlet (Type R) L =10', Depth < 5 feet	3.00	EA	@	\$	\$5,528	=	\$ 16,584.00 \$ 33,470.00
Curb Inlet (Type R) L =10' , 5'-10' Depth	5.00	EA	@	\$	\$6,694	=	\$ 33,470.00
Curb Inlet (Type R) L =10' , 10'-15' Depth	1.00	EA	@	\$	\$7,500	=	\$ \$ 7,033,00
Curb Inlet (Type R) L =15', Depth < 5 feet	1.00	EA	@	\$	\$7,923	=	\$ 7,923.00
Curb Inlet (Type R) L =15' , 5'-10' Depth	9.00	EA	@	\$	\$8,000	=	\$ 72,000.00
Curb Inlet (Type R) Modified L =15', W =5'	ļ <del></del>	EA	-	\$	\$9,000		
Curb Inlet (Type R) L =15', 10'-15' Depth	ļ <del> </del>	EA	@	\$	\$8,800	=	\$
Curb Inlet (Type R) L =20', Depth < 5 feet		EA	@	\$	\$8,000	=	\$

Curb Inlet (Type R) L =20' , 5'-10' Depth		EA	@	\$ \$8,830	=	\$
Curb Inlet (Type R) L =','' Depth		EA	@	\$	=	\$
Curb Inlet (Type R) L =','' Depth		EA	@	\$	=	\$
Grated Inlet (Type C), < 5' deep		EA	@	\$ \$3,270	=	\$
Grated Inlet (Type D), < 5' deep	1.00	EA	@	\$ \$3,908	=	\$ 3,908.00
Storm Sewer Manhole, Box Base, Depth < 15 feet	8.00	EA	@	\$ \$8,592	=	\$ 68,736.00
Storm Sewer Manhole, Box Base, Depth > 15 feet	8.00	EA	@	\$ \$9,500	=	\$ 76,000.00
Storm Sewer Manhole, Slab Base, Depth < 15 feet	2.00	EA	@	\$ \$4,575	=	\$ 9,150.00
Geotextile (Erosion Control)		SY	@	\$ \$5	=	\$ 
Rip Rap, d50 Size from 6" to 24"	1,965.00	CY	@	\$ \$98	=	\$ 192,570.00
Rip Rap, Grouted	197.00	CY	@	\$ \$215	=	\$ 42,355.00
Drainage Channel Construction, Size ( W x H )		LF	@	\$ \$1,984,422	=	\$
Channel Lining, Concrete		CY	@	\$ \$450	=	\$ 
Channel Lining, Rip Rap		CY	@	\$ \$98	=	\$ 
Channel Lining, Grass		AC	@	\$ \$1,287	=	\$ 
Channel Lining, Other Stabilization		SY	@	\$ \$3	=	\$

Permanent Water Quality Facility (Describe)	 EA	@	\$	=	\$
**all items this section subject to defect warranty financial					
assurance. + For flared end sections, multiply pipe LF cost by 6			Section 2 Subtotal	=	\$ 4,878,535.00 **

Section 3 - Common Development Improvements (Private or District)***	Quantity	Units			Price			
- Roadway Improvements								
Include any applicable items from above Public			@	\$		=	\$	
mprovements list, that are to be private and NOT			@	\$		=	\$	
naintained by El Paso County)			@	\$		=	\$	
			@	\$		=	\$	
Itility Relocates	1.00		@	\$	112,500	=	\$	112,500.00
			@	\$		=	\$	
- Storm Drain Improvements								
nclude any applicable items from above Public			@	\$		=	\$	
mprovements list, that are to be private and NOT			@	\$		=	\$	
naintained by El Paso County)			@	\$		=	\$	
Detention Pond W-4	1.00	EA	@	\$	65,000	=	\$	65,000.00
etention Pond W-5	1.00	EA	@	\$	75,000	=	\$	75,000.00
- Water System Improvements								
Vater Main Pipe (PVC), Size 8"	2,927.00	LF	@	\$	\$94	=	\$	275,138.00
Vater Main Pipe (PVC), Size 12"	4,709.00	LF	@	\$	\$120	=	\$	565,080.00
Vater Main Pipe (PVC), Size 16"	74.00	LF	@	\$	\$135	=	\$	9,990.00
Vater Main Pipe (Ductile Iron), Size 8"		LF	@	\$	\$137	=	\$	.,
Gate Valves, 8"	27.00	EA	@	\$	\$1,852	=	\$	50,004.00
Sate Valves, 12"	12.00	EA	@	\$	\$4,951	=	\$	59,412.00
autterfly Valves, 16"	4.00	EA	@	\$	\$6,448	=	\$	25,792.00
Fire Hydrant Assembly w/ all valves	14.00	EA	@	\$	\$6,430	=	\$	90,020.00
Vater Service Line Installation, inc. tap & valves		EA	@	\$	\$1,253	=	\$	55,52555
ire Cistern Installation, complete		EA	@	\$	Ψ1,200	=	\$	
- Sanitary Sewer Improvements								
Sewer Main Pipe (PVC), Size 8"	4,961.00	LF	@	\$	\$94	=	\$	466,334.00
Sewer Main Pipe (PVC), Size 12"		LF	@	\$	\$120	=	\$	•
Sewer Main Pipe (PVC), Size 15"		LF	@	\$	\$135	=	\$	
Sanitary Sewer Manhole, Depth < 15 feet	17.00	EA	@	\$	\$4,575	=	\$	77,775.00
anitary Service Line Installation, complete		EA	@	\$	1,516	=	\$	,
Sanitary Sewer Lift Station, complete		EA	@	\$	,,,,,,	=	\$	
annary constraint, company				<del>_</del>			<u> </u>	
- Landscaping (If Applicable)						$\vdash$		
List landscaping line items and cost - usually only in case		EA	@	\$		=	\$	
f subdivision specific condition of approval, or PUD		EA	@	\$		=	\$	
S Tracts and Buffers	375,000.00	SF	@	\$	3.75	=	\$	1,406,250.00
rails	15,930.00	SY	@	\$	2.50	=	\$	39,825.00
	<del>\</del>	EA	@	\$		=	\$	
**itams in this costion are not subject to defeat warrants						Н		
**items in this section are not subject to defect warranty nancial assurance				Sec	tion 3 Subtotal	=	\$	3,318,120.00
								erdrains.
					iciuue	u	iiue	nui ali is.
	Incl	ude						

Financial Assurance Totals									
As-built drawings - (FILL IN IF THERE ARE ANY PUBLICL		\$	15,000.00						
( Inc. survey to verify detention pond volumes.)	Construction Financial Assurance Total	=	\$	9,395,451.00					
	(Sum of all Section Totals)								
	Public Improvements Total* **		\$	5,806,180.00					
	Defect Warranty Financial Assurance Total	=	\$	1,161,236.00					
(20% of Section 2 Subtota	and 20% of identified Grading and Erosion BMP items)			6,967,416.00					

Approvals			
I hereby certify that this is an accurate a the Project.	nd complete estimate of costs for the	work as shown on the approved Construction Drawings asso	ociated with
Engineer		Date	
	(P.E. Seal)		
Approved by Owner / Applicant		Date	
Annual de El Bass Cause Fasinass / El	CM Advairsiation to	Dete	
Approved by El Paso Couny Engineer / Ed	JIVI AUITIINISTRATOR	Date	