

Quantities will be reviewed/verified on the resubmittal.

Identify the sections of improvements being removed/replaced or installed in the construction plans.

Example: FAE notes one VTC but the plans shows three. Which VTC will be installed. What happens at the other two locations?

Add CDR-21-008

Updated: 12/22/2020

FORMATION					SF01005	
Date					PCD File No.	
Unit	Cost		Total	(with Pre-Plat Construction)	% Complete	Remaining
Permanent BMPs)						
	\$ 8.00	=	\$ -			\$ -
	\$ 6.00	=	\$ -			\$ -
	\$ 5.00	=	\$ -			\$ -
	\$ 3.50	=	\$ -			\$ -
	\$ 2.50	=	\$ -			\$ -
	\$ 2.00	=	\$ -			\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)	0.70	AC	\$ 828.00	=	\$ 579.60	\$ 579.60
* Mulching	0.70	AC	\$ 777.00	=	\$ 543.90	\$ 543.90
* Permanent Erosion Control Blanket		SY	\$ 6.00	=	\$ -	\$ -
* Permanent Pond/BMP Construction		CY	\$ 21.00	=	\$ -	\$ -
* Permanent Pond/BMP (provide engineer's estimate)	1	EA	\$ 2,000.00	=	\$ 2,000.00	\$ 2,000.00
		EA	\$ -	=	\$ -	\$ -
Safety Fence		LF	\$ 3.00	=	\$ -	\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	=	\$ -	\$ -
Vehicle Tracking Control	1	EA	\$ 2,453.00	=	\$ 2,453.00	\$ 2,453.00
Silt Fence		LF	\$ 2.60	=	\$ -	\$ -
Temporary Seeding		AC	\$ 650.00	=	\$ -	\$ -
Temporary Mulch		AC	\$ 777.00	=	\$ -	\$ -
Erosion Bales		EA	\$ 26.00	=	\$ -	\$ -
Erosion Logs/Straw Waddle		LF	\$ 5.00	=	\$ -	\$ -
Rock Check Dams	8	EA	\$ 518.00	=	\$ 4,144.00	\$ 4,144.00
Inlet Protection	4	EA	\$ 173.00	=	\$ 692.00	\$ 692.00
Sediment Basin		EA	\$ 1,824.00	=	\$ -	\$ -
Concrete Washout Basin	1	EA	\$ 932.00	=	\$ 932.00	\$ 932.00
			\$ -	=	\$ -	\$ -
			\$ -	=	\$ -	\$ -
MAINTENANCE (35% of Construction BMPs)				=	\$ 2,877.35	\$ 2,877.35
Section 1 Subtotal				=	\$ 14,221.85	\$ 14,221.85

\* - 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	1	LS	\$ 7,000.00	=		
Aggregate Base Course (135 lbs/cf)		Tons	\$ 29.00	=		
Aggregate Base Course (135 lbs/cf)		CY	\$ 52.00	=		
Asphalt Pavement (3" thick)	6,120	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	\$ -	=		
Guide/Street Name Sign		EA	\$ -	=		
Epoxy Pavement Marking		SF	\$ -	=		
Thermoplastic Pavement Marking		SF	\$ -	=		
Barricade - Type 3		EA	\$ 207.00	=		
Delineator - Type I		EA	\$ 25.00	=		
Curb and Gutter, Type A (6" Vertical)	480	LF	\$ 31.00	=	\$ 14,880.00	
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	800	SY	\$ 62.00	=	\$ 49,604.59	
6" Sidewalk		SY	\$ 75.00	=	\$ -	
8" Sidewalk		SY	\$ 99.00	=	\$ -	
Pedestrian Ramp	10	EA	\$ 1,190.00	=	\$ 11,900.00	
Cross Pan, local (8" thick, 6' wide to include return)	300	LF	\$ 63.00	=	\$ 18,900.00	
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	=	\$ -	

Quantity seems low. Staff calculated approximately 9,946 SY based on the assumption that the entire pavement is removed/replace for Fil 4.

Provide quantities for signage

provide quantities of ramp curbs that needs to be replaced.

Sidewalk quantity is low. Revise.

Update. All the ramps must be replaced to current criteria.

provide quantities for barricades in lieu of the temporary turnaround as discussed in the early assistance meeting.

PROJECT INFORMATION							
Sunset Village Fil No 4			4/16/2021			SF01005	
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]				=	\$ -		\$ -
[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		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	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 87.00	=	\$ -		\$ -
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 = (unit cost = 6x pipe unit cost)		EA		=	\$ -		\$ -
Flared End Section (FES) CSP Size = (unit cost = 6x pipe unit cost)		EA		=	\$ -		\$ -
End Treatment- Headwall		EA		=	\$ -		\$ -
End Treatment- Wingwall		EA		=	\$ -		\$ -
End Treatment - Cutoff Wall		EA		=	\$ -		\$ -
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"	20	Tons	\$ 83.00	=	\$ 1,660.00		\$ 1,660.00
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				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
Section 2 Subtotal				=	\$ 192,684.59		\$ 192,684.59

\* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

Provide clarification on the pavement section to be installed in the letter of intent.

Staff's understanding from the pavement evaluation report by RMG dated Feb 1, 2021 is that the applicant is seeking to implement the Aggregate "stabilized subgrade" option for the rehabilitation.

Sunset Village Fil No 4									
Project Name									
Description	Quantity	Unit	Rate						
<b>SECTION 3 - COMMON DEVELOPMENT IMPROVEMENTS (Private or District and NOT Maintained by EPC)**</b>									
<b>ROADWAY IMPROVEMENTS</b>									
Cement Treated Subgrade @ 3% for 10"	6,120	SY	\$ 13.00	=	\$	79,560.00		\$	79,560.00
				=	\$	-		\$	-
				=	\$	-		\$	-
				=	\$	-		\$	-
				=	\$	-		\$	-
				=	\$	-		\$	-
<b>STORM DRAIN IMPROVEMENTS</b> (Exception: Permanent Pond/BMP shall be itemized under Section 1)									
Clean Out of Inlets	4	EA	\$ 200.00	=	\$	800.00		\$	800.00
Manhole Lids Replaced	200	SF	\$ 71.00	=	\$	14,200.00		\$	14,200.00
Clean Out of Trash and Debris from Pond Area	1	EA	\$ 1,000.00	=	\$	1,000.00		\$	1,000.00
Remove Debris from Outlet Structure and Flush Pipe	1	EA	\$ 1,000.00	=	\$	1,000.00		\$	1,000.00
Civil Consulting and Inspections of Pond Infrastructure	1	EA	\$ 5,000.00	=	\$	5,000.00	50.00%	\$	2,500.00
				=	\$	-		\$	-
<b>WATER SYSTEM IMPROVEMENTS</b>									
Water Main Pipe (PVC), Size 8"		LF	\$	=	\$	-		\$	-
Water Main Pipe (Ductile Iron), Size 8"		LF	\$	=	\$	-		\$	-
Gate Valves, 8"		EA	\$	=	\$	-		\$	-
Fire Hydrant Assembly, w/ all valves		EA	\$	=	\$	-		\$	-
Water Service Line Installation, inc. tap and valves		EA	\$	=	\$	-		\$	-
Fire Cistern Installation, complete		EA	\$	=	\$	-		\$	-
				=	\$	-		\$	-
[insert items not listed but part of construction plans]				=	\$	-		\$	-
<b>SANITARY SEWER IMPROVEMENTS</b>									
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		=	\$	-		\$	-
				=	\$	-		\$	-
[insert items not listed but part of construction plans]				=	\$	-		\$	-
<b>LANDSCAPING IMPROVEMENTS</b> (For subdivision specific condition of approval, or PUD)									
		EA		=	\$	-		\$	-
		EA		=	\$	-		\$	-
		EA		=	\$	-		\$	-
		EA		=	\$	-		\$	-
		EA		=	\$	-		\$	-
<b>Section 3 Subtotal</b>				=	\$	<b>101,560.00</b>		\$	<b>99,060.00</b>

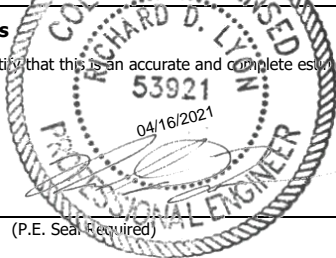
\*\* - Section 3 is not subject to defect warranty requirements

Move items that are public improvements that will be maintained by the County into section 2.

PROJECT INFORMATION		
Sunset Village Fil No 4	4/16/2021	SF01005
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		= \$ -		\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		= \$ -		\$ -
<b>Total Construction Financial Assurance</b> \$ <b>308,466.44</b> (Sum of all section subtotals plus as-builts and pond/BMP certification)						
<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction)</b> \$ <b>305,966.44</b> (Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
<b>Total Defect Warranty Financial Assurance</b> \$ <b>39,161.62</b> (20% of all items identified as (*). To be collateralized at time of preliminary acceptance)						

Provide quantities for both the As-Built Plans and Pond Certification.

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)	
Approved by Owner / Applicant	Date
Approved by El Paso County Engineer / ECM Administrator	Date