

update to SF223

Updated: 12/22/2020

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

PROJECT INFORMATION		
Falcon Acres	11/26/2021	XXXXXXXXXX
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	7,700	CY	\$ 5.00	= \$ 38,500.00		\$ 38,500.00
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 Seeding (inc. noxious weed mgmnt.)	3	AC	\$ 828.00	= \$ 2,351.52		\$ 2,351.52
* Mulching	3	AC	\$ 777.00	= \$ 2,206.68		\$ 2,206.68
* Permanent Erosion Control Blanket		SY	\$ 6.00	= \$ -		\$ -
* Permanent Pond/BMP Construction		CY	\$ 21.00	= \$ -		\$ -
* Permanent Pond/BMP (provide engineer's estimate)		EA	\$ 15,000.00	= \$ -		\$ -
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Temporary Erosion Control Blanket	400	SY	\$ 3.00	= \$ 1,200.00		\$ 1,200.00
Vehicle Tracking Control	1	EA	\$ 2,453.00	= \$ 2,453.00		\$ 2,453.00
Silt Fence	1,969	LF	\$ 2.60	= \$ 5,119.40		\$ 5,119.40
Temporary Seeding		AC	\$ 650.00	= \$ -		\$ -
Temporary Mulch		AC	\$ 777.00	= \$ -		\$ -
Erosion Bales	6	EA	\$ 26.00	= \$ 156.00		\$ 156.00
Erosion Logs/Straw Waddle		LF	\$ 5.00	= \$ -		\$ -
Rock Check Dams		EA	\$ 518.00	= \$ -		\$ -
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
Spill Kit	1	EA	\$ 200.00	= \$ 200.00		\$ 200.00
<small>(insert)</small>				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ 3,763.34		\$ 3,763.34
Section 1 Subtotal				= \$ 57,573.94		\$ 57,573.94

List the assumed thickness

Move to permanent

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	\$ 29.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)	3,000	CY	\$ 52.00	= \$ 156,000.00		\$ 156,000.00
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	\$ -	= \$ -		\$ -
Epoxy Pavement Marking		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	= \$ -		\$ -

Add quantity for regulatory sign and street name sign

add unit cost

PROJECT INFORMATION

Falcon Acres	11/26/2021	XXXXXXXXXX
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]				= \$ -		\$ -
STORM DRAIN IMPROVEMENTS				= \$ -		\$ -
Concrete Box Culvert (M Standard), Size (W x H)		LF		= \$ -		\$ -
18" Reinforced Concrete Pipe	62	LF	\$ 67.00	= \$ 4,154.00		\$ 4,154.00
24" Reinforced Concrete Pipe	41	LF	\$ 81.00	= \$ 3,321.00		\$ 3,321.00
30" Reinforced Concrete Pipe		LF	\$ 100.00	= \$ -		\$ -
36" Reinforced Concrete Pipe	62	LF	\$ 124.00	= \$ 7,688.00		\$ 7,688.00
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	\$ 41	= \$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 47	= \$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 56	= \$ -		\$ -
Flared End Section (FES) RCP Size = 18 <small>(unit cost = 6x pipe unit cost)</small>	1	EA	\$ 40	= \$ 40		\$ 40
Flared End Section (FES) CSP Size = 36 <small>(unit cost = 6x pipe unit cost)</small>	1	EA	\$ 744.00	= \$ 744.00		\$ 744.00
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"	26	Tons	\$ 83.00	= \$ 2,178.75		\$ 2,178.75
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	2	AC	\$ 1,520.00	= \$ 2,508.00		\$ 2,508.00
Drainage Channel Lining, Other Stabilization				= \$ -		\$ -
[insert items not listed but part of construction plans]				= \$ -		\$ -
Section 2 Subtotal				= \$ 186,995.75		\$ 186,995.75

Remove 18" . This is not public storm drain improvements.

Add 24" FES

Remove 18" FES. Plans does not show an 18" public RCP

Update 36" FES quantity to 2

Add the 14"x23" HERCP and FES

Falcon Acres		PRC		Add the Aggregate Base Course for Moonglow Heights & Satellite View		XXXXXXXXXX	
Project Name						e No.	
Description	Quantity	Unit	Price	Amount	Complete	Remaining	(with Pre-Plat Construction)
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)							
18" Reinforced Concrete Pipe	LF		\$ 67.00	=	\$	-	\$ -
30" Reinforced Concrete Pipe	LF		\$ 100.00	=	\$	-	\$ -
1.5'X2.0' Reinforced Concrete Box Culvert	LF		\$ 100.00	=	\$	-	\$ -
				=	\$	-	\$ -
				=	\$	-	\$ -
				=	\$	-	\$ -
WATER SYSTEM IMPROVEMENTS							
Water Main Pipe (PVC), Size 8"	LF		\$ 66.00	=	\$	-	\$ -
Water Main Pipe (Ductile Iron), Size 8"	LF		\$ 78.00	=	\$	-	\$ -
Gate Valves, 8"	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			=	\$	-	\$ -
				=	\$	-	\$ -
<i>[insert items not listed but part of construction plans]</i>							
				=	\$	-	\$ -
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)							
				=	\$	-	\$ -
				=	\$	-	\$ -
				=	\$	-	\$ -
				=	\$	-	\$ -
				=	\$	-	\$ -
** - Section 3 is not subject to defect warranty requirements							
Section 3 Subtotal				=	\$	-	\$ -

Add the Aggregate Base Course for Moonglow Heights & Satellite View

Add quantity for private stop sign and private street name sign

Add 28LF for the 18" Culvert
Add 41 LF for the 21" Culvert

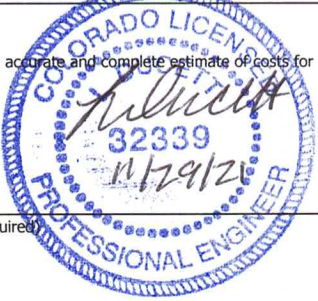
PROJECT INFORMATION

Falcon Acres	11/26/2021	xxxxxxxx
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	\$ 5,000.00	= \$ 5,000.00		\$ 5,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 5,000.00	= \$ 5,000.00		\$ 5,000.00
Total Construction Financial Assurance						\$ 254,569.69
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$ 254,569.69
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
Total Defect Warranty Financial Assurance						\$ 46,010.79
(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)						

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