

2019 Financial Assurance Estimate Form
(with pre-plat construction)

Updated: 6/7/2019

PROJECT INFORMATION		
Monument Academy - Public Road Improvements	5/15/2020	CDR-20-001
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	17,000	CY	\$ 5.00	= \$ 85,000.00	50.00%	\$ 42,500.00
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.)	10	AC	\$ 800.00	= \$ 8,000.00		\$ 8,000.00
* Mulching	10	AC	\$ 750.00	= \$ 7,500.00		\$ 7,500.00
* Permanent Erosion Control Blanket	500	SY	\$ 6.00	= \$ 3,000.00		\$ 3,000.00
* Rain Garden Construction	130	CY	\$ 20.00	= \$ 2,600.00		\$ 2,600.00
* Permanent Pond/BMP (Spillway)	2	EA	\$ 4,000.00	= \$ 8,000.00		\$ 8,000.00
* Permanent Pond/BMP (Outlet Structure)	2	EA	\$ 6,000.00	= \$ 12,000.00		\$ 12,000.00
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Vehicle Tracking Control	1	EA	\$ 2,370.00	= \$ 2,370.00		\$ 2,370.00
Silt Fence	1,200	LF	\$ 2.50	= \$ 3,000.00		\$ 3,000.00
Temporary Seeding		AC	\$ 628.00	= \$ -		\$ -
Temporary Mulch		AC	\$ 750.00	= \$ -		\$ -
Erosion Bales		EA	\$ 25.00	= \$ -		\$ -
Erosion Logs/Straw Waddle	156	LF	\$ 5.00	= \$ 780.00		\$ 780.00
Rock Check Dams	15	EA	\$ 500.00	= \$ 7,500.00		\$ 7,500.00
Inlet Protection	15	EA	\$ 167.00	= \$ 2,505.00		\$ 2,505.00
Sediment Basin	4	EA	\$ 1,762.00	= \$ 7,048.00		\$ 7,048.00
Concrete Washout Basin	1	EA	\$ 900.00	= \$ 900.00		\$ 900.00
[insert items not listed but part of construction plans]				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ 8,436.05		\$ 8,436.05
* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)				Section 1 Subtotal	= \$ 158,639.05	\$ 116,139.05

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	\$ 28.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)	2,750	CY	\$ 50.00	= \$ 137,500.00		\$ 137,500.00
Asphalt Pavement (3" thick)		SY	\$ 14.00	= \$ -		\$ -
Asphalt Pavement (4" thick)	18,475	SY	\$ 19.00	= \$ 351,025.00		\$ 351,025.00
Asphalt Pavement (6" thick)		SY	\$ 29.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 88.00	= \$ -		\$ -
Raised Median, Paved	10,250	SF	\$ 8.00	= \$ 82,000.00		\$ 82,000.00
Roundabout Apron / Center Patterned Concrete	8,500	SF	\$ 8.00	= \$ 68,000.00		\$ 68,000.00
Regulatory Sign/Advisory Sign	10	EA	\$ 300.00	= \$ 3,000.00		\$ 3,000.00
Guide/Street Name Sign	10	EA	\$ 150.00	= \$ 1,500.00		\$ 1,500.00
Epoxy Pavement Marking	5,700	SF	\$ 13.00	= \$ 74,100.00		\$ 74,100.00
Thermoplastic Pavement Marking	300	SF	\$ 23.00	= \$ 6,900.00		\$ 6,900.00
Barricade - Type 3	1	EA	\$ 200.00	= \$ 200.00		\$ 200.00
Delineator - Type I	10	EA	\$ 24.00	= \$ 240.00		\$ 240.00
Curb and Gutter, Type A (6" Vertical)	6,850	LF	\$ 30.00	= \$ 205,500.00		\$ 205,500.00
Curb and Gutter, Type B (Median)	300	LF	\$ 30.00	= \$ 9,000.00		\$ 9,000.00
Roundabout Apron Curb and Gutter	840	LF	\$ 30.00	= \$ 25,200.00		\$ 25,200.00
4" Sidewalk (common areas only)	2,045	SY	\$ 48.00	= \$ 98,160.00		\$ 98,160.00
5" Sidewalk		SY	\$ 60.00	= \$ -		\$ -
6" Sidewalk		SY	\$ 72.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 96.00	= \$ -		\$ -
Pedestrian Ramp	24	EA	\$ 1,150.00	= \$ 27,600.00		\$ 27,600.00
Cross Pan, local (8" thick, 6' wide to include return)	50	LF	\$ 61.00	= \$ 3,050.00		\$ 3,050.00
Cross Pan, collector (9" thick, 8' wide to include return)	350	LF	\$ 92.00	= \$ 32,200.00		\$ 32,200.00
Curb Chase	4	EA	\$ 1,480.00	= \$ 5,920.00		\$ 5,920.00
Guardrail Type 3 (W-Beam)		LF	\$ 49.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 72.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,098.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,767.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 78.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 80.00	= \$ -		\$ -
Electrical Conduit, Size =		LF	\$ 16.00	= \$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 425,000	= \$ -		\$ -

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5/15/2020

CDR-20-001

Project Name

Date

PCD File No.

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						% Complete	Remaining
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							
Concrete Box Culvert (M Standard), Size (W x H)		LF		=	\$ -		\$ -
15" Reinforced Concrete Pipe		LF	\$ 55.00	=	\$ -		\$ -
18" Reinforced Concrete Pipe	925	LF	\$ 65.00	=	\$ 60,125.00		\$ 60,125.00
24" Reinforced Concrete Pipe		LF	\$ 78.00	=	\$ -		\$ -
30" Reinforced Concrete Pipe	89	LF	\$ 97.00	=	\$ 8,633.00		\$ 8,633.00
36" Reinforced Concrete Pipe		LF	\$ 120.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 160.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 195.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 245.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 288.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 332.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 380.00	=	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 84.00	=	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 96.00	=	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 122.00	=	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 147.00	=	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 168.00	=	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 178.00	=	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 260.00	=	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 280.00	=	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 340.00	=	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 400.00	=	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 460.00	=	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 550.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = 18"	5	EA	\$ 390.00	=	\$ 1,950.00		\$ 1,950.00
<small>(unit cost = 6x pipe unit cost)</small>							
Flared End Section (FES) RCP Size = 30"	1	EA	\$ 582.00	=	\$ 582.00		\$ 582.00
<small>(unit cost = 6x pipe unit cost)</small>							
Flared End Section (FES) CSP Size =		EA		=	\$ -		\$ -
<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'	4	EA	\$ 5,542.00	=	\$ 22,168.00		\$ 22,168.00
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,188.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 8,345.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'	1	EA	\$ 7,627.00	=	\$ 7,627.00		\$ 7,627.00
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 7,861.00	=	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 9,841.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 9,918.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 10,833.00	=	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 11,627.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 10,570.00	=	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 11,667.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,640.00	=	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 11,627.00	=	\$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	=	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"	30	Tons	\$ 80.00	=	\$ 2,400.00		\$ 2,400.00
Rip Rap, Grouted		Tons	\$ 95.00	=	\$ -		\$ -
Drainage Channel Construction, Size (W x H)		LF		=	\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 570.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 112.00	=	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,469.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
[insert items not listed but part of construction plans]				=	\$ -		\$ -
Section 2 Subtotal				=	\$ 1,244,580.00		\$ 1,244,580.00

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

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Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat 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	\$ 64.00	=	\$ -		\$ -	
Water Main Pipe (Ductile Iron), Size 8"		LF	\$ 75.00	=	\$ -		\$ -	
Gate Valves, 8"		EA	\$ 1,858.00	=	\$ -		\$ -	
Fire Hydrant Assembly, w/ all valves		EA	\$ 6,597.00	=	\$ -		\$ -	
Water Service Line Installation, inc. tap and valves		EA	\$ 1,324.00	=	\$ -		\$ -	
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	\$ 64.00	=	\$ -		\$ -	
Sanitary Sewer Manhole, Depth < 15 feet		EA	\$ 4,386.00	=	\$ -		\$ -	
Sanitary Service Line Installation, complete		EA	\$ 1,402.00	=	\$ -		\$ -	
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)								
Walker Road Roundabout / Median Landscaping	1	LS	\$ 12,000.00	=	\$ 12,000.00		\$ 12,000.00	
Roadway Lighting	1	LS	\$ 8,000.00	=	\$ 8,000.00		\$ 8,000.00	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
				=	\$ -		\$ -	
Section 3 Subtotal					=	\$ 20,000.00		\$ 20,000.00

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

PROJECT INFORMATION

Monument Academy - Public Road Improvements

5/15/2020

CDR-20-001

Project Name

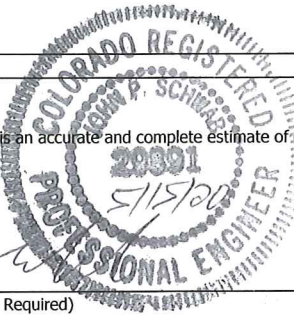
Date

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	\$ 3,000.00	=	\$ 3,000.00		\$ 3,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	\$ 3,000.00	=	\$ 3,000.00		\$ 3,000.00
Total Construction Financial Assurance						\$	1,429,219.05
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)						\$	1,386,719.05
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance						\$	274,136.00
(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

Date

15 May 2020