

include costs for pond structures (forebay, trickle channel, outlet, spillway, etc.)

EPC STORMWATER REVIEW COMMENTS ARE SHOWN IN ORANGE BOXES WITH BLACK TEXT

2022 Financial Assurance Estimate Form (with pre-plat construction) mulching should match seeding quantity

Updated: 11/4/2021

PROJECT INFORMATION		
D49 Transportation Center	6/15/2022	
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)
SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)					
<i>* Earthwork</i>					
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	30,875	CY	\$ 3.50	= \$ 108,062	-
50,001-200,000; \$175,000 min		CY	\$ 2.50	= \$ -	-
greater than 200,000; \$500,000 min		CY	\$ 2.00	= \$ -	-
<i>* Permanent Seeding (inc. noxious weed mgmnt.)</i>	6	AC	\$ 886.00	= \$ 5,316	-
<i>* Mulching</i>	NA	AC	\$ 831.00	= \$ -	-
<i>* Permanent Erosion Control Blanket</i>	NA	SY	\$ 7.00	= \$ -	-
<i>* Permanent Pond/BMP Construction</i>	5,885	CY	\$ 22.00	= \$ 129,470	-
<i>* Permanent Pond/BMP (provide engineer's estimate)</i>		EA		= \$ -	-
Safety Fence	NA	EA		= \$ -	-
Temporary Erosion Control Blanket	NA	LF	\$ 3.00	= \$ -	-
Vehicle Tracking Control	3	SY	\$ 3.00	= \$ 9.00	-
Silt Fence	1,028	EA	\$ 2,625.00	= \$ 7,875	-
Temporary Seeding	4	LF	\$ 3.00	= \$ 3,084	-
Temporary Mulch	NA	AC	\$ 695.00	= \$ 2,780	-
Erosion Bales	NA	AC	\$ 831.00	= \$ -	-
Erosion Logs/Straw Wattles	1,734	EA	\$ 28.00	= \$ -	-
Rock Check Dams	NA	LF	\$ 6.00	= \$ 10,404	-
Inlet Protection	13	EA	\$ 554.00	= \$ -	-
Sediment Basin	1			= \$ -	-
Concrete Washout Basin	3			= \$ -	-
<i>[insert items not listed but part of construction plans]</i>					

insert "PPR2236"

RCDs shown on figures

Revise. Quantities within Section 2 shall be limited to public improvements within County ROW. The only public improvements shown on the plans are improvements within Swingline Road ROW. Remove all other quantities.



MAINTENANCE
 * - 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 *

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)
ROADWAY IMPROVEMENTS					
Construction Traffic Control	1			= \$ -	-
Aggregate Base Course (135 lbs/cf)	17,074			= \$ -	-
Asphalt Pavement (3" thick)	NA	SY	\$ 16.00	= \$ -	-
Asphalt Pavement (4" thick)	NA	SY	\$ 21.00	= \$ -	-
Asphalt Pavement (6" thick)	1,695	SY	\$ 32.00	= \$ 54,240	-
Asphalt Pavement (147 lbs/cf) ___" thick	NA	Tons	\$ 97.00	= \$ -	-
Raised Median, Paved	NA	SF	\$ 9.00	= \$ -	-
Regulatory Sign/Advisory Sign	21	EA	\$ 333.00	= \$ 6,993	-
Guide/Street Name Sign	NA	EA		= \$ -	-
Epoxy Pavement Marking	NA	SF	\$ 15.00	= \$ -	-
Thermoplastic Pavement Marking	NA	SF	\$ 26.00	= \$ -	-
Barricade - Type 3	NA	EA	\$ 221.00	= \$ -	-
Delineator - Type I	25	EA	\$ 27.00	= \$ 675	-
Curb and Gutter, Type A (6" Vertical)	1,060	LF	\$ 32.00	= \$ 33,920	-
Curb and Gutter, Type B (Median)	NA	LF	\$ 32.00	= \$ -	-
Curb and Gutter, Type C (Ramp)	298	LF	\$ 32.00	= \$ 9,536	-
4" Sidewalk (common areas only)	378	SY	\$ 53.00	= \$ 20,034	-
5" Sidewalk	NA	SY	\$ 66.00	= \$ -	-
6" Sidewalk	NA	SY	\$ 80.00	= \$ -	-
8" Sidewalk	NA	SY	\$ 106.00	= \$ -	-
Pedestrian Ramp	2	EA	\$ 1,273.00	= \$ 2,546	-
Cross Pan, local (8" thick, 6' wide to include return)	NA	LF	\$ 67.00	= \$ -	-
Cross Pan, collector (9" thick, 8' wide to include return)	NA	LF	\$ 102.00	= \$ -	-
Curb Chase	NA	EA	\$ 1,639.00	= \$ -	-
Guardrail Type 3 (W-Beam)	NA	LF	\$ 55.00	= \$ -	-
Guardrail Type 7 (Concrete)	NA	LF	\$ 80.00	= \$ -	-
Guardrail End Anchorage	NA	EA	\$ 2,324.00	= \$ -	-
Guardrail Impact Attenuator	NA	EA	\$ 4,172.00	= \$ -	-
Sound Barrier Fence (CMU block, 6' high)	NA	LF	\$ 87.00	= \$ -	-
Sound Barrier Fence (panels, 6' high)	NA	LF	\$ 89.00	= \$ -	-
Electrical Conduit, Size =	NA	LF	\$ 18.00	= \$ -	-
Traffic Signal, complete intersection	NA	EA	\$ 470,666	= \$ -	-

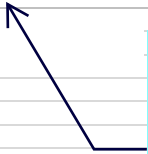
Leave cells blank if NA

PROJECT INFORMATION

D49 Transportation Center	6/15/2022	
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost		Total	(with Pre-Plat Construction)	
						% Complete	Remaining
12" Reinforced Concrete Pipe	1,480	LF	\$ 60.00	=	\$ 88,800	-	\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
STORM DRAIN IMPROVEMENTS							
6" PVC Pipe	906	LF	\$ 11.00	=	\$ 9,966		\$ -
			70.00	=	\$ -		\$ -
24" Reinforced Concrete Pipe			33.00	=	\$ -		\$ -
30" Reinforced Concrete Pipe			34.00	=	\$ -		\$ -
36" Reinforced Concrete Pipe			28.00	=	\$ -		\$ -
42" Reinforced Concrete Pipe			71.00	=	\$ -		\$ -
48" Reinforced Concrete Pipe			39.00	=	\$ -		\$ -
54" Reinforced Concrete Pipe			72.00	=	\$ -		\$ -
60" Reinforced Concrete Pipe			19.00	=	\$ -		\$ -
66" Reinforced Concrete Pipe			38.00	=	\$ -		\$ -
72" Reinforced Concrete Pipe			21.00	=	\$ -		\$ -
18" Corrugated Steel Pipe	NA	LF	\$ 90.00	=	\$ -		\$ -
24" Corrugated Steel Pipe	NA	LF	\$ 103.00	=	\$ -		\$ -
30" Corrugated Steel Pipe	NA	LF	\$ 131.00	=	\$ -		\$ -
36" Corrugated Steel Pipe	NA	LF	\$ 157.00	=	\$ -		\$ -
42" Corrugated Steel Pipe	NA	LF	\$ 180.00	=	\$ -		\$ -
48" Corrugated Steel Pipe	NA	LF	\$ 190.00	=	\$ -		\$ -
54" Corrugated Steel Pipe	NA	LF	\$ 278.00	=	\$ -		\$ -
60" Corrugated Steel Pipe	NA	LF	\$ 300.00	=	\$ -		\$ -
66" Corrugated Steel Pipe	NA	LF	\$ 364.00	=	\$ -		\$ -
72" Corrugated Steel Pipe	NA	LF	\$ 428.00	=	\$ -		\$ -
78" Corrugated Steel Pipe	NA	LF	\$ 492.00	=	\$ -		\$ -
84" Corrugated Steel Pipe	NA	LF	\$ 588.00	=	\$ -		\$ -
Flared End Section (FES) RCP Size = <i>(unit cost = 6x pipe unit cost)</i>	10	EA	\$ 360.00	=	\$ 3,600		\$ -
Flared End Section (FES) CSP Size = <i>(unit cost = 6x pipe unit cost)</i>		EA		=	\$ -		\$ -
End Treatment- Headwall	2	EA	\$ 115.00	=	\$ 230		\$ -
End Treatment- Wingwall	NA	EA		=	\$ -		\$ -
End Treatment - Cutoff Wall	NA	EA		=	\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'	NA	EA	\$ 6,138.00	=	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	NA	EA	\$ 7,981.00	=	\$ -		\$ -
Curb Inlet (Type R) L =5', 10' ≤ Depth < 15'	NA	EA	\$ 9,242.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', Depth < 5'	NA	EA	\$ 8,447.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', 5' ≤ Depth < 10'	NA	EA	\$ 8,706.00	=	\$ -		\$ -
Curb Inlet (Type R) L =10', 10' ≤ Depth < 15'	NA	EA	\$ 10,898.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', Depth < 5'	NA	EA	\$ 10,984.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 5' ≤ Depth < 10'	NA	EA	\$ 11,775.00	=	\$ -		\$ -
Curb Inlet (Type R) L =15', 10' ≤ Depth < 15'	NA	EA	\$ 12,876.00	=	\$ -		\$ -
Curb Inlet (Type R) L =20', Depth < 5'	NA	EA	\$ 11,706.00	=	\$ -		\$ -
Curb Inlet (Type R) L =20', 5' ≤ Depth < 10'	NA	EA	\$ 12,920.00	=	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'	1	EA	\$ 5,138.00	=	\$ 5,138		\$ -
Grated Inlet (Type D), Depth < 5'	NA	EA	\$ 6,347.00	=	\$ -		\$ -
Storm Sewer Manhole, Box Base	4	EA	\$ 12,876.00	=	\$ 51,504		\$ -
Storm Sewer Manhole, Slab Base	NA	EA	\$ 7,082.00	=	\$ -		\$ -
Geotextile (Erosion Control)	NA	SY	\$ 7.00	=	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"	NA	Tons	\$ 89.00	=	\$ -		\$ -
Rip Rap, Grouted	NA	Tons	\$ 105.00	=	\$ -		\$ -
Drainage Channel Construction, Size (W x H)	NA	LF	\$ -	=	\$ -		\$ -
Drainage Channel Lining, Concrete	NA	CY	\$ 631.00	=	\$ -		\$ -
Drainage Channel Lining, Rip Rap	NA	CY	\$ 124.00	=	\$ -		\$ -
Drainage Channel Lining, Grass	NA	AC	\$ 1,626.00	=	\$ -		\$ -
Drainage Channel Lining, Other Stabilization	NA			=	\$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -
Section 2 Subtotal				=	\$ 1,253,326		\$ -

Remove Stormdrain quantities that are outside the County ROW. Do not include private stormdrain lines in section 2.



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

PROJECT INFORMATION

D49 Transportation Center	6/15/2022	
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"	NA	LF	\$ 71.00	=	\$ -		\$ -	
Water Main Pipe (Ductile Iron), Size 8"	2,346	LF	\$ 83.00	=	\$ 194,718		\$ -	
Gate Valves, 8"	8	EA	\$ 2,058.00	=	\$ 16,464		\$ -	
Fire Hydrant Assembly, w/ all valves	3	EA	\$ 7,306.00	=	\$ 21,918		\$ -	
Water Service Line Installation, inc. tap and valves	2	EA	\$ 1,466.00	=	\$ 2,932		\$ -	
Fire Cistern Installation, complete	NA	EA		=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
SANITARY SEWER IMPROVEMENTS								
Sewer Main Pipe (PVC), Size 8"	2,066	LF	\$ 71.00	=	\$ 146,686		\$ -	
Sanitary Sewer Manhole, Depth < 15 feet	9	EA	\$ 4,858.00	=	\$ 43,722		\$ -	
Sanitary Service Line Installation, complete	1	EA	\$ 1,553.00	=	\$ 1,553		\$ -	
Sanitary Sewer Lift Station, complete	NA	EA		=	\$ -		\$ -	
<i>[insert items not listed but part of construction plans]</i>				=	\$ -		\$ -	
LANDSCAPING IMPROVEMENTS (For subdivision specific condition of approval, or PUD)								
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
		EA		=	\$ -		\$ -	
Section 3 Subtotal					=	\$ 427,993	-	\$ -

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

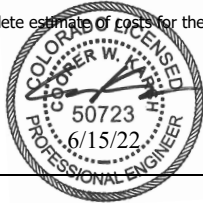
PROJECT INFORMATION

D49 Transportation Center	6/15/2022	
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	10,000	=	\$ 10,000	-	\$ -
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	5,000	=	\$ 5,000	-	\$ -
Total Construction Financial Assurance							\$ 2,050,531 -
(Sum of all section subtotals plus as-builts and pond/BMP certification)							
Total Remaining Construction Financial Assurance (with Pre-Plat Construction)							\$ 2,050,531 -
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)							
Total Defect Warranty Financial Assurance							\$ 299,235 -
(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.



Cooper Karsh, P.E.

Engineer (P.E. Seal Required)

Butt Ridgway

Approved by Owner / Applicant

6 / 20 / 2022

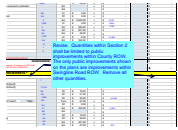
Date

Approved by El Paso County Engineer / ECM Administrator

Date

Financial Assurance Forms_V1.pdf Markup Summary

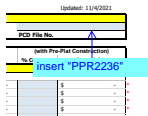
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Revise. Quantities within Section 2 shall be limited to public improvements within County ROW. The only public improvements shown on the plans are improvements within Swingline Road ROW. Remove all other quantities.

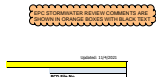
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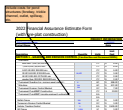
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8/9/2022 1:34:26 PM (1)



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include costs for pond structures (forebay, trickle channel, outlet, spillway, etc.)

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mulching should match seeding quantity

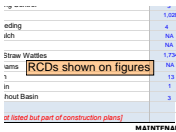
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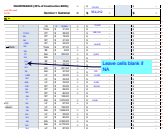
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RCDs shown on figures

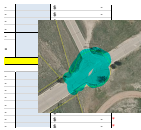
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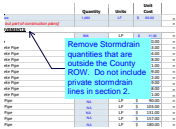
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8/9/2022 4:08:59 PM (1)



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Remove Stormdrain quantities that are outside the County ROW. Do not include private stormdrain lines in section 2.