



**ENGINEER'S OPINION
OF PROBABLE COST**

Date: 4/26/2018
 Project #: 1657.040
 Project Name: City of Missoula Storm Water Facility
 Engineer: and Operations Planning Project

4.3.1 - Grant Creek Levee

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Cost
101	Taxes, Bonds, & Insurance	1	LS	\$5,482.50	\$5,483
102	General Requirements	1	LS	\$12,792.50	\$12,793
103	Mobilization/Demobilization	1	LS	\$9,137.50	\$9,138
104	Tree Removal & Disposal	325	EA	\$550.00	\$178,750
105	Traffic Control	1	LS	\$4,000.00	\$4,000
CONSTRUCTION SUB-TOTAL					\$210,163
CONTINGENCY		25%			\$52,540
CONSTRUCTION TOTAL					\$262,703
DESIGN/BIDDING		5%			\$13,140
CONSTRUCTION ADMINISTRATION		0%			\$0
TOTAL PROJECT COST					\$275,843



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4.3.2 - Grantland #13 Subdivision Storm Water Drain Study

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total	Cost
001	SURVEY	1	LS	\$10,000	\$10,000	
002	HYDRAULICS & HYDROLOGY	1	LS	\$30,000	\$30,000	
003	REPORTS	1	LS	\$15,000	\$15,000	
004	FINAL REPORT & PRESENTATION	1	LS	\$5,000	\$5,000	
TOTAL PROJECT COST						\$60,000



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4.3.3 - Mullan Road Corridor Storm Drain Master Plan

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Cost
SURVEY		1	LS	\$10,000	\$10,000
HYDRAULICS & HYDROLOGY		1	LS	\$30,000	\$30,000
REPORTS		1	LS	\$15,000	\$15,000
FINAL REPORT & PRESENTATION		1	LS	\$5,000	\$5,000
TOTAL PROJECT COST					\$60,000



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4.3.4 Highpark Drainage System Improvements

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Cost
001	Taxes, Bonds, & Insurance	1	LS	\$5,500.00	\$5,500
002	General Requirements	1	LS	\$12,900.00	\$12,900
003	Mobilization/Demobilization	1	LS	\$9,200.00	\$9,200

Area 1 - Rimel and Whitaker:

101	Excavation & Embankment	250	CY	\$20.00	\$5,000
102	Retaining Wall	150	LF	\$135.00	\$20,250
105	4" Perforated Drain Pipe	150	LF	\$30.00	\$4,500
106	Traffic Control	1	LS	\$2,500.00	\$2,500
107	Surface Restoration	1	LS	\$2,500.00	\$2,500
Area 1 Sub-Total Construction Cost					\$34,750

Area 2 - Mansion Heights and Dean Stone:

201	Excavation & Embankment	1300	CY	\$12.00	\$15,600
202	Asphalt	800	SY	\$50.00	\$40,000
203	Subbase	200	CY	\$32.00	\$6,400
204	4" Perforated Drain Pipe	120	LF	\$30.00	\$3,600
205	Catch Basin	1	EA	\$2,500.00	\$2,500
206	12" PVC Pipe	35	LF	\$80.00	\$2,800
207	Traffic Control	1	LS	\$3,500.00	\$3,500
208	Surface Restoration	1	LS	\$2,500.00	\$2,500
Area 2 Sub-Total Construction Cost					\$76,900

Area 3 - Ben Hogan and Highland:

301	Excavation & Embankment	1350	CY	\$12.00	\$16,200
302	Asphalt	450	SY	\$50.00	\$22,500
303	Subbase	100	CY	\$32.00	\$3,200
304	12" PVC Pipe	200	LF	\$80.00	\$16,000
305	Inlet Grates	4	EA	\$2,500.00	\$10,000
306	Traffic Control	1	LS	\$2,500.00	\$2,500
307	Surface Restoration	1	LS	\$2,500.00	\$2,500
Area 3 Sub-Total Construction Cost					\$72,900

CONSTRUCTION SUB-TOTAL				\$212,150
CONTINGENCY		25%		\$53,040
CONSTRUCTION TOTAL				\$265,190
DESIGN/BIDDING		15%		\$39,780
CONSTRUCTION ADMINISTRATION		10%		\$26,520

Area 4 - Highpark Drainage Study:

SURVEY	1	LS	\$10,000	\$10,000
HYDRAULICS & HYDROLOGY	1	LS	\$30,000	\$30,000
REPORTS	1	LS	\$15,000	\$15,000
FINAL REPORT & PRESENTATION	1	LS	\$5,000	\$5,000
Area 4 Sub-Total Study Cost				
TOTAL PROJECT COST				\$391,490



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4.3.5 - Hillview Heights Storm Water Drainage Upgrades

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Cost
101	Taxes, Bonds, & Insurance	1	LS	\$1,400	\$1,400
102	General Requirements	1	LS	\$3,300	\$3,300
103	Mobilization/Demobilization	1	LS	\$2,400	\$2,400
104	Asphalt Cutting & Removal	90	SY	\$30	\$2,700
105	Subbase	60	CY	\$32	\$1,920
106	Curb and Gutter	400	LF	\$30	\$12,000
107	Curb Inlet	4	EA	\$2,500	\$10,000
108	12" PVC Pipe	200	LF	\$80	\$16,000
109	Asphalt	90	SY	\$50	\$4,500
110	8' Precast Sump	1	EA	\$3,000	\$3,000
111	Rip Rap Level Spreader	4	EA	\$300	\$1,200
112	Traffic Control	1	LS	\$5,000	\$5,000
CONSTRUCTION SUB-TOTAL					\$63,420
CONTINGENCY		25%			\$15,860
CONSTRUCTION TOTAL					\$79,280
DESIGN/BIDDING		15%			\$11,890
CONSTRUCTION ADMINISTRATION		10%			\$7,930
TOTAL PROJECT COST					\$99,100



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4.3.6 - Linda Vista Storm Water Drainage Study

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Cost
	SURVEY	1	LS	\$10,000	\$10,000
	HYDRAULICS & HYDROLOGY	1	LS	\$30,000	\$30,000
	REPORTS	1	LS	\$15,000	\$15,000
	FINAL REPORT & PRESENTATION	1	LS	\$5,000	\$5,000
TOTAL PROJECT COST					\$60,000



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4.3.7 - Hillside Street Inlet Grate Replacement

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Cost
Materials					
101	Custom Circular Vaned Grate Pattern	1	LS	\$15,000	\$15,000
102	Vaned Grate Inlet Replacement - Level 1	159	EA	\$400	\$63,600
	MATERIALS SUB-TOTAL				\$78,600
	CONTINGENCY		LS	25%	\$19,650
	MATERIALS TOTAL				\$98,250
Construction					
201	Vaned Grate Inlet Replacement - Level 2	159	EA	\$2,500	\$397,500
202	Vaned Grate Inlet Replacement - Level 3	159	EA	\$5,000	\$795,000
	CONSTRUCTION SUB-TOTAL				\$1,192,500
	CONTINGENCY		1	25%	\$298,130
	CONSTRUCTION TOTAL				\$1,490,630
	DESIGN/BIDDING	1	LS	\$20,000	\$20,000
	TOTAL PROJECT COST				\$1,608,880



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4.3.8 - Caras Park Outfall Pretreatment Retrofit Project - Phase 2

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total	Cost
101	Taxes, Bonds, & Insurance	1	LS	\$7,200	\$7,200	
102	General Requirements	1	LS	\$16,900	\$16,900	
103	Mobilization/Demobilization	1	LS	\$12,000	\$12,000	
104	12" Storm Sewer	50	LF	\$55	\$2,750	
105	Retrofit Existing Manhole	1	EA	\$20,000	\$20,000	
105	Connection to Existing Manhole	1	EA	\$3,200	\$3,200	
106	Infiltration Chambers	100	EA	\$600	\$60,000	
107	Additional Excavation for Chambers	6,000	CY	\$20	\$120,000	
108	Surface Restoration - Pavers	1	LS	\$35,000	\$35,000	
108	Surface Restoration - Grass	1	LS	\$20,000	\$20,000	
109	Traffic Control/Pedestrian	1	LS	\$4,000	\$4,000	
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CONSTRUCTION SUB-TOTAL						\$301,050
CONTINGENCY						\$75,260
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DESIGN/BIDDING						\$37,630
CONSTRUCTION ADMINISTRATION						\$37,630
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4.3.9 - Missoula Levee System Geotechnical Inspection and Recertification

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Cost
001	Inspection and Recertification	18,900	LF	\$25.70	\$485,730
002	Contingency		20%		\$97,146
TOTAL PROJECT COST					\$582,876



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4.3.10 - Storm Water Facility and Operations Plan - Phase 2

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Cost
SURVEY		1	LS	\$20,000	\$20,000
MEETINGS & COORDINATION		1	LS	\$10,000	\$10,000
HYDRAULICS & HYDROLOGY		1	LS	\$35,000	\$35,000
HYDRAULIC MODELING		1	LS	\$75,000	\$75,000
GIS UPDATES		1	LS	\$10,000	\$10,000
OPERATIONS & MAINTENANCE		1	LS	\$15,000	\$15,000
REPORTS		1	LS	\$30,000	\$30,000
FINAL REPORT & PRESENTATION		1	LS	\$5,000	\$5,000
TOTAL PROJECT COST					\$200,000