

# Schaaf & Wheeler

CONSULTING CIVIL ENGINEERS

## MARIN CITY DRAINAGE BYPASS ALTERNATIVES ALTERNATIVE 1 CONCEPTUAL PLANNING LEVEL COST ESTIMATE

Item No.	Item Description	Unit	Quantity	Item Unit Price	Item Cost
1	Mobilization and Demobilization (10%)	LS	1	\$ 900,000	\$ 900,000
2	Traffic & Pedestrian Control	LS	1	\$ 200,000	\$ 200,000
3	Shoring	LS	1	\$ 300,000	\$ 300,000
4	4'x4' RCB	LF	630	\$ 1,200	\$ 756,000
5	48" RCP	LF	340	\$ 900	\$ 306,000
6	42" RCP	LF	820	\$ 800	\$ 656,000
7	36" RCP	LF	171	\$ 700	\$ 119,700
8	30" RCP	LF	181	\$ 600	\$ 108,600
9	Manhole/Junction Structure	EA	8	\$ 25,000	\$ 200,000
10	Additional Inlets	LS	1	\$ 150,000	\$ 150,000
11	Below Grade Detention Basin	AC-FT	6.9	\$ 450,000	\$ 3,105,000
12	Detention Basin Connection	LS	1	\$ 100,000	\$ 100,000
13	Park Reconstruction	LS	1	\$ 1,500,000	\$ 1,500,000
14	Outfall Structure	LS	1	\$ 300,000	\$ 300,000
15	Utility Relocation	LS	1	\$ 200,000	\$ 200,000
16	Misc. Site Improvements	LS	1	\$ 100,000	\$ 100,000
Subtotal					<b>\$9,000,000</b>
25% Construction Contingency					\$2,250,000
<b>Total Estimated Construction Cost</b>					<b>\$11,250,000</b>
15% Engineering Design and Construction Support					\$1,687,500
10% Construction Management and Inspection					\$1,125,000
10% Permitting					\$1,125,000
10% Mitigation					\$1,125,000
15% Project Administration					\$1,687,500
<b>Total Estimated Project Cost</b>					<b>\$18,000,000</b>

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February 2, 2022

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## MARIN CITY DRAINAGE BYPASS ALTERNATIVES ALTERNATIVE 1A (No Detention) CONCEPTUAL PLANNING LEVEL COST ESTIMATE

Item No.	Item Description	Unit	Quantity	Item Unit Price	Item Cost
1	Mobilization and Demobilization (10%)	LS	1	\$ 400,000	\$ 400,000
2	Traffic & Pedestrian Control	LS	1	\$ 200,000	\$ 200,000
3	Shoring	LS	1	\$ 400,000	\$ 400,000
4	4'x4' RCB	LF	1172	\$ 1,200	\$ 1,406,400
5	10'x4' RCB	LF	965	\$ 1,600	\$ 1,544,000
6	Manhole/Junction Structure	EA	8	\$ 25,000	\$ 200,000
7	Additional Inlets	LS	1	\$ 150,000	\$ 150,000
8	Outfall Structure	LS	1	\$ 300,000	\$ 300,000
9	Utility Relocation	LS	1	\$ 200,000	\$ 200,000
10	Misc. Site Improvements	LS	1	\$ 100,000	\$ 100,000
Subtotal					<b>\$4,900,000</b>
25% Construction Contingency					\$1,230,000
<b>Total Estimated Construction Cost</b>					<b>\$6,130,000</b>
15% Engineering Design and Construction Support					\$919,500
10% Construction Management and Inspection					\$613,000
10% Permitting					\$613,000
10% Mitigation					\$613,000
15% Project Administration					\$919,500
<b>Total Estimated Project Cost</b>					<b>\$9,808,000</b>

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CONSULTING CIVIL ENGINEERS

## MARIN CITY DRAINAGE BYPASS ALTERNATIVES ALTERNATIVE 2 CONCEPTUAL PLANNING LEVEL COST ESTIMATE

Item No.	Item Description	Unit	Quantity	Item Unit Price	Item Cost
1	Mobilization and Demobilization (10%)	LS	1	\$ 900,000	\$ 900,000
2	Traffic & Pedestrian Control	LS	1	\$ 200,000	\$ 200,000
3	Shoring	LS	1	\$ 300,000	\$ 300,000
4	6'x4' RCB	LF	435	\$ 1,400	\$ 609,000
5	48" RCP	LF	1310	\$ 900	\$ 1,179,000
6	36" RCP	LF	300	\$ 700	\$ 210,000
7	Manhole/Junction Structure	EA	8	\$ 25,000	\$ 200,000
8	Additional Inlets	LS	1	\$ 150,000	\$ 150,000
9	Below Grade Detention Basin	AC-FT	6.9	\$ 450,000	\$ 3,105,000
10	Detention Basin Connection	LS	1	\$ 100,000	\$ 100,000
11	Park Reconstruction	LS	1	\$ 1,500,000	\$ 1,500,000
12	Outfall Structure	LS	1	\$ 50,000	\$ 50,000
13	Outfall Channel Improvements	LS	1	\$ 150,000	\$ 150,000
14	Utility Relocation	LS	1	\$ 200,000	\$ 200,000
15	Misc. Site Improvements	LS	1	\$ 100,000	\$ 100,000
Subtotal					<b>\$8,950,000</b>
25% Construction Contingency					\$2,240,000
<b>Total Estimated Construction Cost</b>					<b>\$11,190,000</b>
15% Engineering Design and Construction Support					\$1,678,500
10% Construction Management and Inspection					\$1,119,000
10% Permitting					\$1,119,000
10% Mitigation					\$1,119,000
15% Project Administration					\$1,678,500
<b>Total Estimated Project Cost</b>					<b>\$17,904,000</b>

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## MARIN CITY DRAINAGE BYPASS ALTERNATIVES ALTERNATIVE 3 CONCEPTUAL PLANNING LEVEL COST ESTIMATE

Item No.	Item Description	Unit	Quantity	Item Unit Price	Item Cost
1	Mobilization and Demobilization	LS	1	\$ 1,000,000	\$ 1,000,000
2	Traffic & Pedestrian Control	LS	1	\$ 200,000	\$ 200,000
3	Shoring	LS	1	\$ 300,000	\$ 300,000
4	Temporary Facilities	LS	1	\$ 50,000	\$ 50,000
5	4'x4' RCB	LF	675	\$ 1,200	\$ 810,000
6	24" Force Main	LF	1420	\$ 800	\$ 1,136,000
7	Manhole/Junction Structure	EA	3	\$ 25,000	\$ 75,000
8	Additional Inlets	LS	1	\$ 150,000	\$ 150,000
9	Pump Station	LS	1	\$ 4,000,000	\$ 4,000,000
10	Below Grade Detention Basin	AC-FT	5.7	\$ 450,000	\$ 2,565,000
11	Detention Basin Connection	LS	1	\$ 100,000	\$ 100,000
12	Park Reconstruction	LS	1	\$ 1,500,000	\$ 1,500,000
13	Outfall Structure	LS	1	\$ 300,000	\$ 300,000
14	Utility Relocation	LS	1	\$ 150,000	\$ 150,000
15	Misc. Site Improvements	LS	1	\$ 100,000	\$ 100,000
Subtotal					<b>\$12,440,000</b>
25% Construction Contingency					\$3,110,000
<b>Total Estimated Construction Cost</b>					<b>\$15,550,000</b>
15% Engineering Design and Construction Support					\$2,332,500
10% Construction Management and Inspection					\$1,555,000
10% Permitting					\$1,555,000
10% Mitigation					\$1,555,000
15% Project Administration					\$2,332,500
<b>Total Estimated Project Cost</b>					<b>\$24,880,000</b>

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