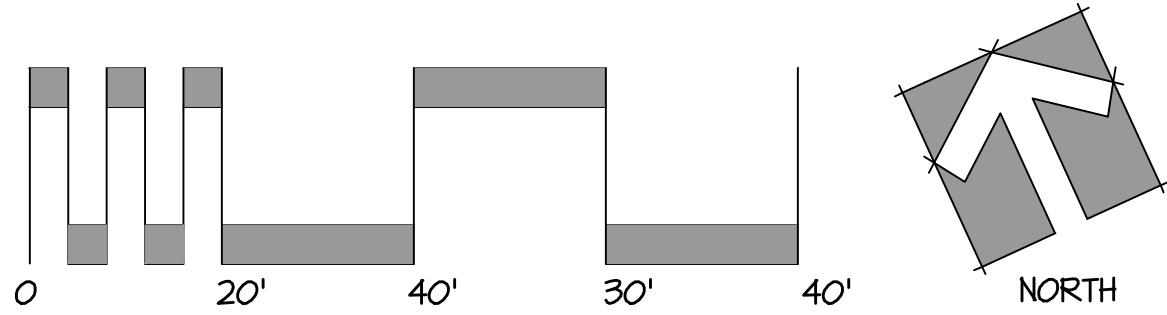

APPENDIX A
CONCEPT SKETCHES



OPTION - 1

SEA LEVEL RISE ADAPTATION PLANNING STUDY
 DOWNTOWN WATERFRONT AREA
 DAMARISCOTTA, MAINE
 JANUARY 30, 2015



APPENDIX B

ENGINEERS OPINION OF PROBABLE CONSTRUCTION COSTS

**TOWN OF DAMARISCOTTA
DOWNTOWN SEA LEVEL RISE MITIGATION
OPTION 1
PRELIMINARY COST OPINION
REVISED FEBRUARY 2, 2015**

ITEM NO.	ITEM/DESCRIPTION	UNIT	QTY	UNIT COST	AMOUNT IN FIGURES
1	Common Excavation and Pavement Removal	CY	1,600	\$ 13.00	\$20,800
2	Aggregate Base Course-Crushed (Type A)	CY	800	\$ 29.00	\$23,200
3	Aggregate Subbase Course-Gravel (Type D)	CY	3,000	\$ 24.00	\$72,000
4	3" Hot Mix Asphalt (Binder & Surface)	Ton	1,330	\$ 125.00	\$166,250
5	Culvert Pipe Option 1 (RCP) less than 24" DIA	LF	600	\$ 70.00	\$42,000
6	Concrete Headwall and Backflow Prevention Device	LS	1	\$ 25,000.00	\$25,000
7	Catch Basin Type B1-C	EA	5	\$ 2,500.00	\$12,500
9	Construct Concrete Wall	SF	10,200	\$ 60.00	\$612,000
10	Reconstruct shoreline with boulder revetment and vegetated littoral fringe	LS	1	\$ 15,000.00	\$15,000
11	Relocate Utility Poles and Connected wires	LS	1	\$ 20,000.00	\$20,000
12	Furnish and Install Lock System	Allowance	1	\$ 20,000.00	\$20,000
13	Minor Items - 35% Allowance	Allowance	1	\$ 360,062.50	\$360,063
14	Mobilization (5%)	LS	1	\$ 69,440.63	\$69,441

PROJECT SUBTOTAL = \$1,458,253

DESIGN and PERMITTING BUDGET ±10% = \$145,825

TOWN OF DAMARISCOTTA
DOWNTOWN SEA LEVEL RISE MITIGATION
OPTION 1
PRELIMINARY COST OPINION
REVISED FEBRUARY 2, 2015

ITEM NO.	ITEM/DESCRIPTION	UNIT	QTY	UNIT COST	AMOUNT IN FIGURES
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PROJECT TOTAL = \$1,604,078

TOTAL (ROUNDED) = **\$1,605,000**

**TOWN OF DAMARISCOTTA
DOWNTOWN SEA LEVEL RISE MITIGATION
OPTION 2
PRELIMINARY COST OPINION
REVISED FEBRUARY 2, 2015**

ITEM NO.	ITEM/DESCRIPTION	UNIT	QTY	UNIT COST	AMOUNT IN FIGURES
1	Common Excavation and Pavement Removal	CY	140	\$ 15.00	\$2,100
2	Aggregate Base Course-Crushed (Type A)	CY	250	\$ 29.00	\$7,250
3	Aggregate Subbase Course-Gravel (Type D)	CY	500	\$ 24.00	\$12,000
4	3" Hot Mix Asphalt (Binder & Surface)	Ton	150	\$ 125.00	\$18,750
5	Culvert Pipe Option 1 (RCP) less than 24" DIA	LF	125	\$ 70.00	\$8,750
6	Pipe outlet and Backflow Prevention Device	LS	1	\$ 8,000.00	\$8,000
7	Catch Basin Type B1-C	EA	1	\$ 2,500.00	\$2,500
8	Construct Concrete Wall	SF	2,000	\$ 60.00	\$120,000
9	Concrete Stairs	LS	1	\$ 15,000.00	\$15,000
10	Minor Items - 35% Allowance	Allowance	1	\$ 68,022.50	\$68,023
11	Mobilization (5%)	LS	1	\$ 13,118.63	\$13,119

PROJECT SUBTOTAL = \$275,491

DESIGN and PERMITTING BUDGET ±10% = \$27,549

PROJECT TOTAL = \$303,040

TOTAL (ROUNDED) = \$304,000