

SC Region - Marine Engineering
Project Cost Estimate

PROJECT NUMBER: SSHWY00232
PROJECT TITLE: Cascade Point Ferry Terminal
DESCRIPTION: Cascade Point - Single Berth
Date: 3/22/2019

Item No.	Item	Units	Unit Price	Quantity	Amount	
1	General					
	Mobilization/Demobilization	LS	\$800,000	1	\$800,000	
	Temporary Erosion and Pollution Control	CS	\$250,000	1	\$250,000	
	Construction Surveying	LS	\$100,000	1	\$100,000	
	Field Offices	LS	\$75,000	1	\$75,000	
2	Dredged Mooring Basin					
Dredged Mooring Basin (Includes placement as upland fill or disposal)	CY	\$35	52,000	\$1,820,000		
3	Marine Facilities					
	Pile Supported Bridge Approach Abutment	EA	\$80,000	1	\$80,000	
	Sheet Pile Wave Barrier Structure	LF	\$40,000	500		
	20'x142' Steel Transfer Bridge	EA	\$900,000	1	\$900,000	
	50'x80' Steel Bridge Float (or Lift Bridge System) (w/ Intermediate Ramp, Apron & Fenders)	EA	\$1,600,000	1	\$1,600,000	
	4-Pile Stern Dolphin Structures	EA	\$650,000	2	\$1,300,000	
	4-Pile Breasting Dolphins	EA	\$650,000	3	\$1,950,000	
	3-Pile Mooring Dolphins	EA	\$500,000	2	\$1,000,000	
	Steel Access Catwalks	EA	\$65,000	5	\$325,000	
	Electrical Power and Lighting System (Terminal)	LS	\$400,000	1	\$400,000	
	3	Upland Improvements (Access/Staging Area)				
		Access Road Improvements (Widen/Reconstruct/Chip Seal)	LF	\$500	1,600	\$800,000
		Cascade Creek Bridge - 50' Length	EA	\$800,000	1	\$800,000
Staging/Parking Areas Excavation		CY	\$20	36,200	\$724,000	
Causeway Embankment (Local Excavation + Import)		CY	\$15	77,000	\$1,155,000	
Riprap Slope Protection		CY	\$70	15,000	\$1,050,000	
12" Aggregate Surface Course (Approx 3.62 acres uplands)		CY	\$25	5,840	\$146,007	
Asphalt Concrete Surfacing or Stabilized Base/Chip Seal (Approx 3.62 acres uplands + Access Road)		Ton	\$200	2,437	\$487,403	
Metal Beam Guardrail		LF	\$55	1,120	\$61,600	
Painted Traffic Markings		LS	\$45,000	1	\$45,000	
Potable Water Supply (Well & Piping)		LS	\$200,000	4	\$800,000	
Sanitary Sewer for Bldg (Pkg Treatment Plant/Outfall/Leach Field or Holding Tank)		LS	\$650,000	4	\$2,600,000	
Diesel Generator System, Bldg & Fuel Storage Tank		LS	\$600,000	1	\$600,000	
Electrical Power Supply & Area Lighting System	LS	\$650,000	1	\$650,000		
5	Building Structures					
	Utility / Restroom Building (46'x32')	SF	\$500	542.00	\$271,000	
	Pit Toilet Public Restroom Facility	LS	\$80,000	1	\$80,000	

Marine Structures = \$7,555,000

Upland / Access = \$5,269,010

Utilities = \$1,250,000

Item Totals \$17,119,010
 Estimating & Construction Contingencies @ 15% \$2,567,852

Construction Subtotal \$19,686,862

10% Design & Permitting \$1,968,686
 20% Construction Engineering \$3,937,372

5.7% ICAP \$1,458,796.45

Project Total = \$27,051,717

Prepared by: KDM
 Checked by: KDM

Date: 03/22/19
 Date:

SC Region - Marine Engineering

Project Cost Estimate

PROJECT NUMBER: SSHWY00232

PROJECT TITLE: Cascade Point Ferry Terminal Highway Improvements

DESCRIPTION: Resurface / Reconstruct Existing Highway Besse Creek to Cascade Point

Date: 3/22/2019

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Amount
A1	Chip Seal Besse Creek to Echo (no stabilized subbase / no widening) 26' Wide Chip Seal no Stabilized Base	5.87	26.00	806,000	SF	\$0.80	644,800

Item Totals \$644,800
 Estimating & Construction Contingencies @ 10% \$64,480
Construction Subtotal \$709,280
 10% Design & Permitting \$70,928
 10% Construction Engineering \$64,480
 5.7% ICAP \$48,147
Project Total = \$892,835

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Amount
A2	Chip Seal Echo to Cascade (no stabilized subbase / no widening) 26' Wide Chip Seal no Stabilized Base	2.84	26.00	390,000	SF	\$0.80	312,000

Item Totals \$312,000
 Estimating & Construction Contingencies @ 10% \$31,200
Construction Subtotal \$343,200
 10% Design & Permitting \$34,320
 10% Construction Engineering \$31,200
 5.7% ICAP \$23,297
Project Total = \$432,017

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Amount
B1	Stabilized Base + Chip Seal Besse Creek to Echo (no widening) 26' Wide Stabilized Base w/ Chip Seal Surfacing	5.87	26.00	806,000	SF	\$4.25	3,425,500

Item Totals \$3,425,500
 Estimating & Construction Contingencies @ 10% \$342,550
Construction Subtotal \$3,768,050
 10% Design & Permitting \$376,805
 15% Construction Engineering \$565,208
 5.7% ICAP \$268,473.56
Project Total = \$4,978,536

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Amount
B2	Stabilized Base + Chip Seal Echo to Cascade (no widening) 26' Wide Stabilized Base w/ Chip Seal Surfacing	2.84	26.00	390,000	SF	\$4.25	1,657,500

Item Totals \$1,657,500
 Estimating & Construction Contingencies @ 10% \$165,750
Construction Subtotal \$1,823,250
 10% Design & Permitting \$182,325
 15% Construction Engineering \$273,488
 5.7% ICAP \$129,906.56
Project Total = \$2,408,969

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Amount
C	Reconstruct Besse Creek to Echo Cove - 30' width 30' width w/ stabilized subbase/chip seal or AC pavement	5.87	30.00	930,000	SF	\$7.00	6,510,000

Item Totals \$6,510,000
 Estimating & Construction Contingencies @ 15% \$976,500
Construction Subtotal \$7,486,500
 15% Design & Permitting \$1,122,975
 20% Construction Engineering \$1,497,300
 5.7% ICAP \$576,086.18
Project Total = \$10,682,861

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Quantity
D	Reconstruct Echo Cove to Cascade Point - 30' width 30' width w/ stabilized subbase/chip seal or AC pavement	2.84	30.00	450,000	SF	\$7.00	3,150,000

Item Totals \$3,150,000
 Estimating & Construction Contingencies @ 15% \$472,500
Construction Subtotal \$3,622,500
 20% Design & Permitting \$724,500
 20% Construction Engineering \$724,500
 5.7% ICAP \$289,075.50
Project Total = \$5,360,576