

EXHIBIT “B”



**WHATCOM COUNTY
2017-2030 FOURTEEN-YEAR
FERRY CAPITAL PROGRAM**

Overview

This program provides a blueprint for the effective, efficient, and continuing operation of the Whatcom County Ferry System within existing financial constraints. Capital improvements are scheduled based on many years of experience operating and maintaining the system, while complying with applicable regulations.

Inevitably, priorities and available funds for the ferry system will change over the fourteen years projected in this program. Therefore, the intention of the program is to be a guide indicating long-range improvements and anticipated revenues and expenditures. Strict adherence is not required.

Enacted in 1975, Revised Code of Washington (**RCW**) **36.54.015** states “The legislative authority of every county operating ferries shall prepare, with the advice and assistance of the county engineer, a fourteen year long range capital improvement plan embracing all major elements of the ferry system. Such plan shall include a listing of each major element of the system showing its estimated current value, its estimated replacement cost, and its amortization period.”

Table 1: Ferry System Current and Replacement Values – meets applicable requirements, showing the current value, replacement cost, and amortization periods for the vessels and facilities. The current value of the M/V Whatcom Chief is the book value, calculated from the depreciated original construction cost and any depreciated improvements/major repairs. The facilities’ current value is book value; original cost less depreciation plus depreciated improvements.

RCW 36.81.121 (1) states “...the legislative authority of each county, after one or more public hearings thereon, shall prepare and adopt a comprehensive transportation program for the ensuing six calendar years....and for those counties operating ferries shall also include a separate section showing proposed capital expenditures for ferries, docks, and related facilities. Copies of the program shall be filed with the county road administration board and the secretary of transportation not more than thirty days after its adoption by the legislative authority...” Subsection (2) requires expanded information on how a county will spend all its money on the various facets of the transportation program. This RCW Section was enacted in 1961. The capital expenditure portion of Subsection (1) is satisfied by:

Table 2: Projected Revenues defines the known and/or anticipated sources of operating and capital project funding for the 14-Year Plan.

Table 3: Projected Expenditures includes all other expenditures on the system that meet Subsection (2) requirements. Operational expenditures are delineated

between vessel and non-vessel costs. U.S. Coast Guard regulations currently require the ferries to be dry-docked every two years, however to extend the life, improve reliability and protect our capital investment Whatcom County schedules dry-docking every year for its vessel. The landings are inspected regularly as required by the National Bridge Inspection Standards administered through the Washington State Department of Transportation. The inspection report helps identify and schedule major maintenance and replacement of these facilities.

This RCW section also provides the reporting requirement and timing of program submission, as well as establishing the annual update requirement.

Additionally, the Federal Highway Administration requires all agencies within a Metropolitan Planning Organization to develop and annually update the long range Transportation Improvement Plans and their Biennial Element. Whatcom County updates this 14-Year plan each year and incorporates the results into the Six-Year Transportation Improvement Program.

Major Project Analysis

Gooseberry Point dock improvements include electrical system upgrades and terminal painting which are in the design and permitting stages in 2017 with construction anticipated for 2018. In 2019, preliminary plans will be developed for the replacement of the approach span and transfer span decks.

Design work will continue in 2017 and 2018 for the Lummi Island dock improvements which include dolphin and breakwater replacement. Electrical system upgrades and terminal painting are in the design and permitting stages in 2017 with construction anticipated for 2018. In 2019, preliminary plans will be developed for the replacement of the approach span and transfer span decks.

Major Maintenance/Reconstruction

Pile, dolphin & fender work:

Major pile dolphin and fender work replacement is scheduled as funding and operational periods allow.

Vessel dry-docking:

US Coast Guard regulations require periodic inspections of all ferry vessels. In addition to yearly certifications, each vessel is required to be dry-docked every two years, with an underwater hull survey required as part of the annual certification between dry dockings. Whatcom County schedules dry-docking every year. The engine overhaul, vessel painting, hull repairs, and other major and minor repairs occur during dry-docking. Propulsion engine overhauls occur every third year. Generator engines are overhauled on a six-year cycle. Engines are replaced every ten to twelve years. Every three to five years, a vessel survey is conducted to assess the vessel's overall condition (last valuation was in 2014),

establish the fair market value, estimate replacement cost, and provide a detailed hull strength assessment. This survey is used in part to determine the requirements for hull plating and framing replacement, and is also a requirement of the current insurance carrier.

Minor Maintenance

General minor maintenance is continual on the ferry, landings, aprons, approaches, and waiting facilities. The costs and extent of the work is unpredictable and frequently, problems must be repaired immediately upon detection. Routine maintenance such as building painting and roof cleaning is more predictable and scheduled in advance.

History of the Ferry System

The ferry system is the only public transportation link for the majority of Lummi Island residents and vehicles to the mainland at Gooseberry Point. In the event of an emergency ferry outage or mechanical failure, the County has contracted pedestrian only ferry services while the vessel is being repaired.

Following is a brief chronology outlining the history of the Whatcom County Ferry System.

YEAR EVENT

- 1926 Lummi Shore Road from Bellingham was completed and a ferry, the Central, owned by Whatcom County and large enough to hold six small Model-T Fords started making scheduled runs between Lummi Island and Gooseberry Point.
- 1929 The slightly larger Chief Kwina replaces the Central.
- 1950 Gooseberry Point terminal built.
- 1962 The M/V Whatcom Chief begins service.
- 1978 Lummi Island terminal is relocated.
- 1982 New lift mechanism installed on transfer span at Lummi Island.
Gooseberry Point pier refurbished
- 1987 Gooseberry Point Transfer span, wing walls and dolphins replaced
- 1997 Major refurbishment of Gooseberry point landing accomplished
- 2002 20-Year Plan Phase 1 Process and report completed.
- 2005 Major Status Report on Ferry System
- 2006 Lummi Island Dock preservation project (Bearing Seats Rebuild).
Major corrosion repair to vessel hull.
Completed design package for a 35-car replacement vessel.
Completed design package for urgent electrical/structural terminal repairs.
First Rate Increase in 5 years.
- 2008 Rate Increase
- 2009 Rate adjustment

- 2009 Emergency wing wall replacement on Lummi Island
- 2010 Emergency wing wall replacement on Lummi Island
- 2011 Rate increase and long term lease with the Lummi Nation
- 2012 Planning and design for the remote control installation at Lummi Island and the wing wall replacement at Gooseberry Point.
- 2013 Gooseberry Point terminal wooden wingwalls replaced with modern steel-pile supported wingwalls.
- 2013 Lummi Island terminal transfer span and apron remote control system installed.
- 2014 Gooseberry Point terminal wooden dolphins replaced with modern steel-pile supported dolphins.
- 2015 Rate adjustment
- 2015 Dolphin Emergency Repair – Lummi Island Terminal

FERRY SYSTEM CURRENT AND REPLACEMENT VALUES - 2015

VESSELS

Current Statistics	M/V Whatcom Chief
LENGTH (ft)	94
BEAM (ft)	44
DISPLACEMENT (tons)	78
YEAR BUILT	1962
CAPACITY -- Passengers	100
CAPACITY -- Cars	20
CURRENT INSURED VALUE - 2015	\$910,000
TOTAL CURRENT VALUE - 2015⁽¹⁾	

\$910,000

Replacement Statistics	
YEAR	2015
CAPACITY -- Passengers	100
CAPACITY -- Cars	20
REPLACEMENT VALUE - 2015 ⁽²⁾	\$5,886,000
TOTAL - REPLACEMENT VALUE - 2015	

\$5,886,000

FACILITIES

LOCATION	YEAR BUILT	REPLACE MENT YEAR	CURRENT BOOK VALUE ⁽⁴⁾	REPLACEMENT VALUE - 2009 ⁽⁵⁾
Lummi Island Landing				
Transfer Span	1982	2022	\$195,000	\$1,990,000
Dock	1978	2018	\$23,000	\$360,000
Dolphins/Wingwall ⁽³⁾	1978	2018	\$485,000	\$1,750,000
Parking Lots	2005	2045	\$50,000	\$85,000
Passenger Waiting/Office	1978	2018	\$10,000	\$25,000
Subtotal - Lummi Island Landing			\$763,000	\$4,210,000
Gooseberry Point Landing				
Transfer Span	1987	2027	\$445,000	\$2,200,000
Dock	1997	2037	\$87,000	\$590,000
North and South Wingwalls	2009, 2010	2037, 2038	\$326,000	\$326,000
Dolphins/Wingwall ⁽³⁾	2013, 2014	2053, 2054	\$1,400,000	\$1,540,000
Subtotal - Gooseberry Point Landing			\$2,258,000	\$4,656,000
TOTAL FACILITIES VALUE			\$3,021,000	\$8,866,000
TOTAL VESSEL & FACILITIES VALUE			\$3,931,000	\$14,752,000

NOTES:

- (1) Depreciated Columbia Sentinel Engineers (2015) Value plus Depreciated Improvements
- (2) Appreciated Columbia Sentinel Engineers (2015) Replacement Value
- (3) Replace with Steel Pilings, estimation of replacement value due to recent replacement timeframe
- (4) Estimated using a 40-year life and straight-line depreciation (including depreciated improvements)
- (5) Replacement value based on cost estimates by Art Anderson Associates (2009)

Lummi Island Ferry 14-Year Capital Program							
All \$ in 000's Revenues 2017-2023							
Category	2017	2018	2019	2020	2021	2022	2023
Punch Card Fares (3)	\$1,124	\$1,149	\$1,176	\$1,204	\$1,232	\$1,261	\$1,292
Cash Fares (4)	281	287	294	301	308	315	323
(Memo 55% of Operating Cost) (1)	1404	1437	1470	1505	1540	1577	1616
MVFT Deficit Subsidy	140	140	140	140	140	140	140
County Road Fund Subsidy	1172	1197	1223	1251	1279	0	1338
Total Revenues	2716	2774	2833	2895	2959	1717	3094
Total Expenditures (2)	3062	5144	2896	2948	3002	3058	3116
Net Unfunded	346	2370	63	53	43	1341	22

Lummi Island Ferry 14-Year Capital Program							
All \$ in 000's Revenues 2024-2030							
Category	2024	2025	2026	2027	2028	2029	2030
Punch Card Fares (3)	\$1,323	\$1,356	\$1,389	\$1,424	\$1,462	\$1,496	\$1,530
Cash Fares (4)	331	339	347	356	365	374	382
(Memo 55% of Operating Cost) (1)	1654	1695	1736	1780	1827	1869	1912
MVFT Deficity Subsidy	140	140	140	140	140	140	140
County Road Fund Subsidy	1369	1401	1433	1468	1506	1539	1572
Total Revenues	3162	3236	3309	3388	3473	3548	3624
Total Expenditures (2)	3174	3234	3295	3360	3425	3485	3549
Net Unfunded	12	(2)	(14)	(28)	(48)	(63)	(75)
Note 1: After Subtracting the MVFT Deficity Subsidy. Budgeted for 57% fare recovery based on historical							
Note 2: As Shown On Table 2, including capital expenditures							
Note 3: Equal to 80% of Fares							
Note 4: Equal to 20% of Fares							

Lummi Island Ferry 14-Year Capital Program

All in 000's Table 2 Expenditures 2017-2023 Page 1

Category	2017	2018	2019	2020	2021	2022	2023
Operating Expenses							
Vessel Operations							
Personnel	1297	1312	1327	1342	1357	1372	1387
Fuel & Operating Supplies	684	704	726	747	770	793	817
Insurance	60	62	63	65	67	69	71
Other Operating Expenses	146	146	153	159	165	172	179
Total Vessel Operations	2187	2224	2269	2313	2359	2406	2454
Other Operations							
Administration	289	294	300	306	312	319	325
Parking Lots							
Lummi Island	10	10	11	11	11	11	11
Gooseberry Pt.	5	5	5	5	6	6	6
Docks							
Lummi Island	45	45	45	46	47	48	50
Gooseberry Pt.	266	266	266	267	267	268	270
Total Operating Expenses	2802	2844	2896	2948	3002	3058	3116
Capital Expenditures							
Major Vessel Upgrades	5	-	-	-	-	-	-
Gooseberry Point							
Docks	25	575	-	-	-	-	-
Staging	-	-	-	-	-	-	--
Parking	-	-	-	-	-	-	-
Lummi Island							
Docks	100	575	-	-	-	-	-
Staging	-	-	-	-	-	-	-
Parking	-	-	-	-	-	-	-
Total Capital Program Costs	130	1150	0	0	0	0	0
Total Costs	3062	5144	2896	2948	3002	3058	3116

Lummi Island Ferry 14-Year Capital Program

All in 000's Table 2 Expenditures 2024-2030 Page 2

Category	2024	2025	2026	2027	2028	2029	2030
Operating Expenses							
Vessel Operations							
Personnel	1402	1417	1432	1447	1462	1477	1492
Fuel & Operating Supplies	841	866	892	919	947	975	1000
Insurance	73	76	78	80	83	85	87
Other Operating Expenses	186	194	201	209	216	222	230
Total Vessel Operations	2502	2553	2603	2655	2708	2759	2809
Other Operations							
Administration	332	338	345	352	359	366	373
Parking Lots							
Lummi Island	12	12	12	13	13	13	14
Gooseberry Pt.	6	6	6	7	7	7	8
Docks							
Lummi Island	51	53	54	56	58	60	62
Gooseberry Pt.	271	272	275	277	280	280	283
Total Operating Expenses	3174	3234	3295	3360	3425	3485	3549
Capital Expenditures							
Major Vessel Upgrades	-	-	-	-	-	-	-
Gooseberry Point							
Docks	-	-	-	-	-	-	-
Staging	-	-	-	-	-	-	-
Parking	-	-	-	-	-	-	-
Lummi Island							
Docks	-	-	-	-	-	-	-
Staging	-	-	-	-	-	-	-
Parking	-	-	-	-	-	-	-
Total Capital Program Costs	-	-	-	-	-	-	-
Total Costs	3174	3234	3295	3360	3425	3485	3549