

SMS15010

STRUCTURE REPLACEMENT AND IMPROVEMENT NEEDS REPORT

MAR, 2014

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District : 01

Bridge Number : 10 0134	Total Length: 208.8	Permit Rating: POOXX	Suff Rating : 49.30
Feat Intersected: SALMON CREEK	Total Width : 9.8	Rail Rating : 0000	Approach Width: 8.8
Structure Name : SALMON CREEK	Location : 01-MEN-001-43.00	STRUCTURALLY DEFECIENT	

Item	Recom. Date	Project Type	Urgency Factor	Cost	Status	Tech. rank
1	02/10/1984	62 - Railing-Upgrade	2 years	\$724,880	2-Programmed	1.22
2	03/28/2007	70 - Seismic-Retrofit	2 years	\$1,018,000	2-Programmed	2.19
3	07/01/2002	80 - Bridge-Replace	2 years	\$12,068,000	2-Programmed	46.60

Project Details :

- F1-06 / F2-0 / F3-5 / Rail Type-SR. Replace the bridge rail.
- Steel truss members may require strengthening. Priority 4. Final Score 2.1875.
- THIS AGING STRUCTURE IS IN A MARGINAL AND DETERIORATING CONDITION. IT IS FUNCTIONALLY OBSOLETE, HAS A LOW LOAD RATING, AND IS AN INAPPROPRIATE DESIGN FOR THE ENVIRONMENT. THE LIFE CYCLE ECONOMIC COST OF ADEQUATE MAINTENANCE DOES NOT COMPARE FAVORABLY WITH COST OF REPLACEMENT WITH A STRUCTURE TYPE BETTER SUITED TO THE ENVIRONMENT.

IT IS THEREFORE URGENTLY RECOMMENDED THAT THIS STRUCTURE BE REPLACED. AN SM&I PEER REVIEW IN AUGUST 2007 REAFFIRMED THE RECOMMENDATION THAT THIS BRIDGE BE REPLACED.

Bridge Number : 10 0135	Total Length: 50.6	Permit Rating: P P P P P	Suff Rating : 85.90
Feat Intersected: U.S. 101 (@ PM R89.56)	Total Width : 12.8	Rail Rating : 0011	Approach Width: 12.2
Structure Name : ROUTE 271/101 SEPARATION (SCANDIA-SOUTH LEGGETT)	Location : 01-MEN-271-5.58		

Item	Recom. Date	Project Type	Urgency Factor	Cost	Status	Tech. rank
1	07/01/2012	62 - Railing-Upgrade	4 years	\$205,000	0-Proposed	1.00

Project Details :

- Upgrade Type 9 rail to current standards. (SMS)

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District : 01

Bridge Number : 10 0136	Total Length: 295.4	Permit Rating: PGGGO	Suff Rating : 61.70
Feat Intersected: ALBION RIVER	Total Width : 8.6	Rail Rating : 0010	Approach Width: 7.3
Structure Name : ALBION RIVER	Location : 01-MEN-001-43.74	STRUCTURALLY DEFECIENT	

Item	Recom. Date	Project Type	Urgency Factor	Cost	Status	Tech. rank
1	07/01/1986	23 - Sub-Rehab	2 years	\$1,500,000	2-Programmed	43.27
2	02/10/1984	62 - Railing-Upgrade	2 years	\$1,008,600	2-Programmed	14.06
3	03/28/2007	70 - Seismic-Retrofit	2 years	\$1,270,000	2-Programmed	2.81
4	04/05/1999	80 - Bridge-Replace	2 years	\$13,200,000	2-Programmed	43.27

Project Details :

- 1 Remove and replace the bolted connections and hardware (threaded rods, malleys, nuts, splice plates/straps, etc) throughout the entire timber sub-structure. Replace the top left horizontal timber element between Bent 15 and Bent 16.
- 2 F1-10 / F2-6 / F3-1 / Rail Type-WOOD. Replace the bridge rail.
- 3 Steel truss members may require strengthening. Priority 4. Final Score 2.8125.
- 4 Replace the steel main span. Estimated at \$2,000,000 (NOT including traffic handling costs). Or, replace the entire structure. Estimated at \$13,200,000.

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IT IS THEREFORE URGENTLY RECOMMENDED THAT THIS STRUCTURE BE REPLACED. AN SM&I PEER REVIEW IN AUGUST 2007 REAFFIRMED THE RECOMMENDATION THAT THIS BRIDGE BE REPLACED.

Bridge Number : 10 0139	Total Length: 142.3	Permit Rating: PPPPP	Suff Rating : 78.20
Feat Intersected: HOWARD CREEK	Total Width : 12.8	Rail Rating : 0111	Approach Width: 12.2
Structure Name : HOWARD CREEK	Location : 01-MEN-001-R80.55		

Item	Recom. Date	Project Type	Urgency Factor	Cost	Status	Tech. rank
1	07/01/2012	62 - Railing-Upgrade	4 years	\$506,760	0-Proposed	1.07

Project Details :

- 1 Upgrade Type 9-11 rail to current standards. (SMS)