

**Life Cycle Cost Analysis**  
**50 Year Design Life**

**2011**

Discount Rate		7%								
Design Year	Description	Full Rehabilitation Alternative	Present Value	Partial Rehabilitation Alternative	Present Value	High Profile Replacement Alternative	Present Value	Low Profile Replacement Alternative	Present Value	
Year 0	Construction	\$28,163,239	\$28,163,239	\$21,515,144	\$21,515,144	\$21,400,000	\$21,400,000	\$37,307,876	\$37,307,876	
Year 1	M & O of Movable Span	\$103,500	\$96,729	\$103,500	\$96,729	\$0	\$0	\$103,500	\$96,729	
Year 2	"	\$103,500	\$90,401	\$103,500	\$90,401	\$0	\$0	\$103,500	\$90,401	
Year 3	"	\$103,500	\$84,487	\$103,500	\$84,487	\$0	\$0	\$103,500	\$84,487	
Year 4	"	\$103,500	\$78,960	\$103,500	\$78,960	\$0	\$0	\$103,500	\$78,960	
Year 5	"	\$103,500	\$73,794	\$103,500	\$73,794	\$0	\$0	\$103,500	\$73,794	
Year 6	"	\$103,500	\$68,966	\$103,500	\$68,966	\$0	\$0	\$103,500	\$68,966	
Year 7	"	\$103,500	\$64,455	\$103,500	\$64,455	\$0	\$0	\$103,500	\$64,455	
Year 8	"	\$103,500	\$60,238	\$103,500	\$60,238	\$0	\$0	\$103,500	\$60,238	
Year 9	"	\$103,500	\$56,297	\$103,500	\$56,297	\$0	\$0	\$103,500	\$56,297	
Year 10	"	\$103,500	\$52,614	\$103,500	\$52,614	\$0	\$0	\$103,500	\$52,614	
Year 11	"	\$103,500	\$49,172	\$103,500	\$49,172	\$0	\$0	\$103,500	\$49,172	
Year 12	"	\$103,500	\$45,955	\$103,500	\$45,955	\$0	\$0	\$103,500	\$45,955	
Year 13	"	\$103,500	\$42,949	\$103,500	\$42,949	\$0	\$0	\$103,500	\$42,949	
Year 14	"	\$103,500	\$40,139	\$103,500	\$40,139	\$0	\$0	\$103,500	\$40,139	
Year 15	M & O of Movable Span	\$103,500	\$37,513	\$103,500	\$37,513	\$0	\$0	\$103,500	\$37,513	
"	Deck Replacement	\$2,601,900	\$943,048	\$2,601,900	\$943,048	\$0	\$0	\$0	\$0	
Year 16	M & O of Movable Span	\$103,500	\$35,059	\$103,500	\$35,059	\$0	\$0	\$103,500	\$35,059	
Year 17	"	\$103,500	\$32,765	\$103,500	\$32,765	\$0	\$0	\$103,500	\$32,765	
Year 18	"	\$103,500	\$30,622	\$103,500	\$30,622	\$0	\$0	\$103,500	\$30,622	
Year 19	"	\$103,500	\$28,619	\$103,500	\$28,619	\$0	\$0	\$103,500	\$28,619	
Year 20	"	\$103,500	\$26,746	\$103,500	\$26,746	\$0	\$0	\$103,500	\$26,746	
Year 21	"	\$103,500	\$24,997	\$103,500	\$24,997	\$0	\$0	\$103,500	\$24,997	
Year 22	"	\$103,500	\$23,361	\$103,500	\$23,361	\$0	\$0	\$103,500	\$23,361	
Year 23	"	\$103,500	\$21,833	\$103,500	\$21,833	\$0	\$0	\$103,500	\$21,833	
Year 24	"	\$103,500	\$20,405	\$103,500	\$20,405	\$0	\$0	\$103,500	\$20,405	
Year 25	"	\$103,500	\$19,070	\$103,500	\$19,070	\$0	\$0	\$103,500	\$19,070	
Year 26	"	\$103,500	\$17,822	\$103,500	\$17,822	\$0	\$0	\$103,500	\$17,822	
Year 27	"	\$103,500	\$16,656	\$103,500	\$16,656	\$0	\$0	\$103,500	\$16,656	
Year 28	"	\$103,500	\$15,567	\$103,500	\$15,567	\$0	\$0	\$103,500	\$15,567	
Year 29	"	\$103,500	\$14,548	\$103,500	\$14,548	\$0	\$0	\$103,500	\$14,548	
Year 30	M & O of Movable Span	\$103,500	\$13,596	\$103,500	\$13,596	\$0	\$0	\$103,500	\$13,596	
"	Wearing Surface Rehabilitation	\$0	\$0	\$0	\$0	\$826,500	\$108,575	\$732,555	\$96,234	
Year 31	M & O of Movable Span	\$103,500	\$12,707	\$103,500	\$12,707	\$0	\$0	\$103,500	\$12,707	
Year 32	"	\$103,500	\$11,876	\$103,500	\$11,876	\$0	\$0	\$103,500	\$11,876	
Year 33	"	\$103,500	\$11,099	\$103,500	\$11,099	\$0	\$0	\$103,500	\$11,099	
Year 34	"	\$103,500	\$10,373	\$103,500	\$10,373	\$0	\$0	\$103,500	\$10,373	
Year 35	"	\$103,500	\$9,694	\$103,500	\$9,694	\$0	\$0	\$103,500	\$9,694	
Year 36	"	\$103,500	\$9,060	\$103,500	\$9,060	\$0	\$0	\$103,500	\$9,060	
Year 37	"	\$103,500	\$8,467	\$103,500	\$8,467	\$0	\$0	\$103,500	\$8,467	
Year 38	"	\$103,500	\$7,913	\$103,500	\$7,913	\$0	\$0	\$103,500	\$7,913	
Year 39	"	\$103,500	\$7,396	\$103,500	\$7,396	\$0	\$0	\$103,500	\$7,396	
Year 40	"	\$103,500	\$6,912	\$103,500	\$6,912	\$0	\$0	\$103,500	\$6,912	
Year 41	"	\$103,500	\$6,460	\$103,500	\$6,460	\$0	\$0	\$103,500	\$6,460	
Year 42	"	\$103,500	\$6,037	\$103,500	\$6,037	\$0	\$0	\$103,500	\$6,037	
Year 43	"	\$103,500	\$5,642	\$103,500	\$5,642	\$0	\$0	\$103,500	\$5,642	
Year 44	"	\$103,500	\$5,273	\$103,500	\$5,273	\$0	\$0	\$103,500	\$5,273	
Year 45	M & O of Movable Span	\$103,500	\$4,928	\$103,500	\$4,928	\$0	\$0	\$103,500	\$4,928	
"	Wearing Surface Rehabilitation	\$390,285	\$18,583	\$390,285	\$18,583	\$0	\$0	\$0	\$0	
Year 46	M & O of Movable Span	\$103,500	\$4,606	\$103,500	\$4,606	\$0	\$0	\$103,500	\$4,606	
Year 47	"	\$103,500	\$4,304	\$103,500	\$4,304	\$0	\$0	\$103,500	\$4,304	
Year 48	"	\$103,500	\$4,023	\$103,500	\$4,023	\$0	\$0	\$103,500	\$4,023	
Year 49	"	\$103,500	\$3,760	\$103,500	\$3,760	\$0	\$0	\$103,500	\$3,760	
Year 50	"	\$103,500	\$3,514	\$103,500	\$3,514	\$1	\$0	\$103,500	\$3,514	
Net Present Value			\$30,514,459		\$23,905,152		\$21,508,575		\$38,832,487	
% Above Least Cost Alternative			42%		11%		-		81%	