



Appendix G

Bridge Inspection and Maintenance Cost Estimates



Alternative 1 Inspection & Routine Maint. Cost Calculations					
Year	Present Value Factor	Inspection Cost	Routine Maint. Cost	Total Cost	Present Value Cost
2025	1.0000	\$7,500	\$74,900	\$82,400	\$82,400
2026	0.9756	\$47,700	\$74,900	\$122,600	\$119,610
2027	0.9518	\$7,500	\$74,900	\$82,400	\$78,430
2028	0.9286	\$85,700	\$74,900	\$160,600	\$149,133
2029	0.9060	\$7,500	\$74,900	\$82,400	\$74,650
2030	0.8839	\$47,700	\$74,900	\$122,600	\$108,361
2031	0.8623	\$7,500	\$74,900	\$82,400	\$71,053
2032	0.8413	\$85,700	\$74,900	\$160,600	\$135,107
2033	0.8207	\$7,500	\$74,900	\$82,400	\$67,630
2034	0.8007	\$47,700	\$74,900	\$122,600	\$98,169
2035	0.7812	\$7,500	\$74,900	\$82,400	\$64,371
2036	0.7621	\$85,700	\$74,900	\$160,600	\$122,400
2037	0.7436	\$7,500	\$74,900	\$82,400	\$61,269
2038	0.7254	\$47,700	\$74,900	\$122,600	\$88,937
2039	0.7077	\$7,500	\$74,900	\$82,400	\$58,317
2040	0.6905	\$85,700	\$74,900	\$160,600	\$110,889
2041	0.6736	\$7,500	\$74,900	\$82,400	\$55,507
2042	0.6572	\$47,700	\$74,900	\$122,600	\$80,572
2043	0.6412	\$7,500	\$74,900	\$82,400	\$52,832
2044	0.6255	\$85,700	\$74,900	\$160,600	\$100,460
2045	0.6103	\$7,500	\$74,900	\$82,400	\$50,286
2046	0.5954	\$47,700	\$74,900	\$122,600	\$72,994
2047	0.5809	\$7,500	\$74,900	\$82,400	\$47,863
2048	0.5667	\$85,700	\$74,900	\$160,600	\$91,012
2049	0.5529	\$7,500	\$74,900	\$82,400	\$45,557
2050	0.5394	\$47,700	\$74,900	\$122,600	\$66,129
2051	0.5262	\$7,500	\$74,900	\$82,400	\$43,362
2052	0.5134	\$85,700	\$74,900	\$160,600	\$82,452
2053	0.5009	\$7,500	\$74,900	\$82,400	\$41,272
2054	0.4887	\$47,700	\$74,900	\$122,600	\$59,910
2055	0.4767	\$7,500	\$74,900	\$82,400	\$39,284
2056	0.4651	\$85,700	\$74,900	\$160,600	\$74,697
2057	0.4538	\$7,500	\$74,900	\$82,400	\$37,391
2058	0.4427	\$47,700	\$74,900	\$122,600	\$54,275
2059	0.4319	\$7,500	\$74,900	\$82,400	\$35,589
2060	0.4214	\$85,700	\$74,900	\$160,600	\$67,672
2061	0.4111	\$7,500	\$74,900	\$82,400	\$33,874
2062	0.4011	\$47,700	\$74,900	\$122,600	\$49,171
2063	0.3913	\$7,500	\$74,900	\$82,400	\$32,242
2064	0.3817	\$85,700	\$74,900	\$160,600	\$61,308
2065	0.3724	\$7,500	\$74,900	\$82,400	\$30,688
2066	0.3633	\$47,700	\$74,900	\$122,600	\$44,546
2067	0.3545	\$7,500	\$74,900	\$82,400	\$29,210
2068	0.3458	\$85,700	\$74,900	\$160,600	\$55,542
2069	0.3374	\$7,500	\$74,900	\$82,400	\$27,802
2070	0.3292	\$47,700	\$74,900	\$122,600	\$40,357
2071	0.3211	\$7,500	\$74,900	\$82,400	\$26,462
2072	0.3133	\$85,700	\$74,900	\$160,600	\$50,318
2073	0.3057	\$7,500	\$74,900	\$82,400	\$25,187
2074	0.2982	\$47,700	\$74,900	\$122,600	\$36,561
2075	0.2909	\$7,500	\$74,900	\$82,400	\$23,974
2076	0.2838	\$85,700	\$74,900	\$160,600	\$45,586
2077	0.2769	\$7,500	\$74,900	\$82,400	\$22,818
2078	0.2702	\$47,700	\$74,900	\$122,600	\$33,123
2079	0.2636	\$7,500	\$74,900	\$82,400	\$21,719
2080	0.2572	\$85,700	\$74,900	\$160,600	\$41,298
2081	0.2509	\$7,500	\$74,900	\$82,400	\$20,672
2082	0.2448	\$47,700	\$74,900	\$122,600	\$30,008
2083	0.2388	\$7,500	\$74,900	\$82,400	\$19,676
2084	0.2330	\$85,700	\$74,900	\$160,600	\$37,414
2085	0.2273	\$7,500	\$74,900	\$82,400	\$18,728
2086	0.2217	\$47,700	\$74,900	\$122,600	\$27,185
2087	0.2163	\$7,500	\$74,900	\$82,400	\$17,826
2088	0.2111	\$85,700	\$74,900	\$160,600	\$33,895
2089	0.2059	\$7,500	\$74,900	\$82,400	\$16,967
2090	0.2009	\$47,700	\$74,900	\$122,600	\$24,629
2091	0.1960	\$7,500	\$74,900	\$82,400	\$16,149
2092	0.1912	\$85,700	\$74,900	\$160,600	\$30,708
2093	0.1865	\$7,500	\$74,900	\$82,400	\$15,371
2094	0.1820	\$47,700	\$74,900	\$122,600	\$22,312
2095	0.1776	\$7,500	\$74,900	\$82,400	\$14,630
2096	0.1732	\$85,700	\$74,900	\$160,600	\$27,820
2097	0.1690	\$7,500	\$74,900	\$82,400	\$13,925
2098	0.1649	\$47,700	\$74,900	\$122,600	\$20,214
2099	0.1609	\$7,500	\$74,900	\$82,400	\$13,254
2100	0.1569	\$85,700	\$74,900	\$160,600	\$25,203
2101	0.1531	\$7,500	\$74,900	\$82,400	\$12,616
2102	0.1494	\$47,700	\$74,900	\$122,600	\$18,313
2103	0.1457	\$7,500	\$74,900	\$82,400	\$12,008
2104	0.1422	\$85,700	\$74,900	\$160,600	\$22,833
2105	0.1387	\$7,500	\$74,900	\$82,400	\$11,429
2106	0.1353	\$47,700	\$74,900	\$122,600	\$16,590
2107	0.1320	\$7,500	\$74,900	\$82,400	\$10,879
2108	0.1288	\$85,700	\$74,900	\$160,600	\$20,685
2109	0.1257	\$7,500	\$74,900	\$82,400	\$10,354
2110	0.1226	\$47,700	\$74,900	\$122,600	\$15,030
2111	0.1196	\$7,500	\$74,900	\$82,400	\$9,855
2112	0.1167	\$85,700	\$74,900	\$160,600	\$18,740
2113	0.1138	\$7,500	\$74,900	\$82,400	\$9,381
2114	0.1111	\$47,700	\$74,900	\$122,600	\$13,617
2115	0.1084	\$7,500	\$74,900	\$82,400	\$8,929
2116	0.1057	\$85,700	\$74,900	\$160,600	\$16,978
2117	0.1031	\$7,500	\$74,900	\$82,400	\$8,498
2118	0.1006	\$47,700	\$74,900	\$122,600	\$12,336
2119	0.0982	\$7,500	\$74,900	\$82,400	\$8,089
2120	0.0958	\$85,700	\$74,900	\$160,600	\$15,381
2121	0.0934	\$7,500	\$74,900	\$82,400	\$7,699
2122	0.0912	\$47,700	\$74,900	\$122,600	\$11,176
2123	0.0889	\$7,500	\$74,900	\$82,400	\$7,328
2124	0.0868	\$85,700	\$74,900	\$160,600	\$13,934
2125	0.0846	\$7,500	\$74,900	\$82,400	\$6,975
2126	0.0826	\$47,700	\$74,900	\$122,600	\$10,125
2127	0.0806	\$7,500	\$74,900	\$82,400	\$6,639
2128	0.0786	\$85,700	\$74,900	\$160,600	\$12,624
2129	0.0767	\$7,500	\$74,900	\$82,400	\$6,319
2130	0.0748	\$47,700	\$74,900	\$122,600	\$9,172
2131	0.0730	\$7,500	\$74,900	\$82,400	\$6,014
2132	0.0712	\$85,700	\$74,900	\$160,600	\$11,436

Routine Inspection
NSTM Inspection
Routine Inspection
In-Depth Inspection* } 4-Year Repeating Cycle

* In-Depth Inspection includes NSTM Inspection, Ultrasonic Pin Testing, & Full Condition/Recommendation Report.

Notes:

1. Costs are based on the 2017 LCCA Report/actual costs incurred by the county to inspect and maintain the existing bridge between 2006 and 2015. They were inflated to 2024 dollar values.

2. The Subtotal Net Present Value was then inflated (by 33%) to match the initial and future cost estimate dollar values used for a 2030 construction start date.

3. Discount Rate (i) is assumed to be 2.50%.

	Total = \$12,096,000	
Subtotal Net Present Value =		\$4,250,200
33% (Inflation, 2030 begin construction) =		\$1,402,600
Total Net Present Value =		\$5,652,800

Alternative 2B, 2C Inspection & Routine Maint. Cost Calculations					
Year	Present Value Factor	Inspection Cost	Routine Maint. Cost	Total Cost	Present Value Cost
2025	1.0000	\$7,500	\$74,900	\$82,400	\$82,400
2026	0.9756	\$47,700	\$74,900	\$122,600	\$119,610
2027	0.9518	\$7,500	\$74,900	\$82,400	\$78,430
2028	0.9286	\$85,700	\$74,900	\$160,600	\$149,133
2029	0.9060	\$7,500	\$74,900	\$82,400	\$74,650
2030	0.8839	\$47,700	\$74,900	\$122,600	\$108,361
2031	0.8623	\$7,500	\$74,900	\$82,400	\$71,053
2032	0.8413	\$2,200	\$15,000	\$17,200	\$14,470
2033	0.8207	\$2,200	\$15,000	\$17,200	\$14,117
2034	0.8007	\$2,200	\$15,000	\$17,200	\$13,773
2035	0.7812	\$2,200	\$15,000	\$17,200	\$13,437
2036	0.7621	\$22,400	\$15,000	\$37,400	\$28,504
2037	0.7436	\$2,200	\$15,000	\$17,200	\$12,789
2038	0.7254	\$2,200	\$15,000	\$17,200	\$12,477
2039	0.7077	\$2,200	\$15,000	\$17,200	\$12,173
2040	0.6905	\$2,200	\$15,000	\$17,200	\$11,876
2041	0.6736	\$22,400	\$15,000	\$37,400	\$25,194
2042	0.6572	\$2,200	\$15,000	\$17,200	\$11,304
2043	0.6412	\$2,200	\$15,000	\$17,200	\$11,028
2044	0.6255	\$2,200	\$15,000	\$17,200	\$10,759
2045	0.6103	\$2,200	\$15,000	\$17,200	\$10,497
2046	0.5954	\$22,400	\$15,000	\$37,400	\$22,267
2047	0.5809	\$2,200	\$15,000	\$17,200	\$9,991
2048	0.5667	\$2,200	\$15,000	\$17,200	\$9,747
2049	0.5529	\$2,200	\$15,000	\$17,200	\$9,509
2050	0.5394	\$2,200	\$15,000	\$17,200	\$9,278
2051	0.5262	\$22,400	\$15,000	\$37,400	\$19,681
2052	0.5134	\$2,200	\$15,000	\$17,200	\$8,830
2053	0.5009	\$2,200	\$15,000	\$17,200	\$8,615
2054	0.4887	\$2,200	\$15,000	\$17,200	\$8,405
2055	0.4767	\$2,200	\$15,000	\$17,200	\$8,200
2056	0.4651	\$22,400	\$15,000	\$37,400	\$17,395
2057	0.4538	\$2,200	\$15,000	\$17,200	\$7,805
2058	0.4427	\$2,200	\$15,000	\$17,200	\$7,614
2059	0.4319	\$2,200	\$15,000	\$17,200	\$7,429
2060	0.4214	\$2,200	\$15,000	\$17,200	\$7,248
2061	0.4111	\$22,400	\$15,000	\$37,400	\$15,375
2062	0.4011	\$2,200	\$15,000	\$17,200	\$6,898
2063	0.3913	\$2,200	\$15,000	\$17,200	\$6,730
2064	0.3817	\$2,200	\$15,000	\$17,200	\$6,566
2065	0.3724	\$2,200	\$15,000	\$17,200	\$6,406
2066	0.3633	\$22,400	\$15,000	\$37,400	\$13,589
2067	0.3545	\$2,200	\$15,000	\$17,200	\$6,097
2068	0.3458	\$2,200	\$15,000	\$17,200	\$5,948
2069	0.3374	\$2,200	\$15,000	\$17,200	\$5,803
2070	0.3292	\$2,200	\$15,000	\$17,200	\$5,662
2071	0.3211	\$22,400	\$15,000	\$37,400	\$12,011
2072	0.3133	\$2,200	\$15,000	\$17,200	\$5,389
2073	0.3057	\$2,200	\$15,000	\$17,200	\$5,258
2074	0.2982	\$2,200	\$15,000	\$17,200	\$5,129
2075	0.2909	\$2,200	\$15,000	\$17,200	\$5,004
2076	0.2838	\$22,400	\$15,000	\$37,400	\$10,616
2077	0.2769	\$2,200	\$15,000	\$17,200	\$4,763
2078	0.2702	\$2,200	\$15,000	\$17,200	\$4,647
2079	0.2636	\$2,200	\$15,000	\$17,200	\$4,534
2080	0.2572	\$2,200	\$15,000	\$17,200	\$4,423
2081	0.2509	\$22,400	\$15,000	\$37,400	\$9,383
2082	0.2448	\$2,200	\$15,000	\$17,200	\$4,210
2083	0.2388	\$2,200	\$15,000	\$17,200	\$4,107
2084	0.2330	\$2,200	\$15,000	\$17,200	\$4,007
2085	0.2273	\$2,200	\$15,000	\$17,200	\$3,909
2086	0.2217	\$22,400	\$15,000	\$37,400	\$8,293
2087	0.2163	\$2,200	\$15,000	\$17,200	\$3,721
2088	0.2111	\$2,200	\$15,000	\$17,200	\$3,630
2089	0.2059	\$2,200	\$15,000	\$17,200	\$3,542
2090	0.2009	\$2,200	\$15,000	\$17,200	\$3,455
2091	0.1960	\$22,400	\$15,000	\$37,400	\$7,330
2092	0.1912	\$2,200	\$15,000	\$17,200	\$3,289
2093	0.1865	\$2,200	\$15,000	\$17,200	\$3,209
2094	0.1820	\$2,200	\$15,000	\$17,200	\$3,130
2095	0.1776	\$2,200	\$15,000	\$17,200	\$3,054
2096	0.1732	\$22,400	\$15,000	\$37,400	\$6,479
2097	0.1690	\$2,200	\$15,000	\$17,200	\$2,907
2098	0.1649	\$2,200	\$15,000	\$17,200	\$2,836
2099	0.1609	\$2,200	\$15,000	\$17,200	\$2,767
2100	0.1569	\$2,200	\$15,000	\$17,200	\$2,699
2101	0.1531	\$22,400	\$15,000	\$37,400	\$5,726
2102	0.1494	\$2,200	\$15,000	\$17,200	\$2,569
2103	0.1457	\$2,200	\$15,000	\$17,200	\$2,506
2104	0.1422	\$2,200	\$15,000	\$17,200	\$2,445
2105	0.1387	\$2,200	\$15,000	\$17,200	\$2,386
2106	0.1353	\$22,400	\$15,000	\$37,400	\$5,061
2107	0.1320	\$2,200	\$15,000	\$17,200	\$2,271
2108	0.1288	\$2,200	\$15,000	\$17,200	\$2,215
2109	0.1257	\$2,200	\$15,000	\$17,200	\$2,161
2110	0.1226	\$2,200	\$15,000	\$17,200	\$2,109
2111	0.1196	\$22,400	\$15,000	\$37,400	\$4,473
2112	0.1167	\$2,200	\$15,000	\$17,200	\$2,007
2113	0.1138	\$2,200	\$15,000	\$17,200	\$1,958
2114	0.1111	\$2,200	\$15,000	\$17,200	\$1,910
2115	0.1084	\$2,200	\$15,000	\$17,200	\$1,864
2116	0.1057	\$22,400	\$15,000	\$37,400	\$3,954
2117	0.1031	\$2,200	\$15,000	\$17,200	\$1,774
2118	0.1006	\$2,200	\$15,000	\$17,200	\$1,731
2119	0.0982	\$2,200	\$15,000	\$17,200	\$1,688
2120	0.0958	\$2,200	\$15,000	\$17,200	\$1,647
2121	0.0934	\$22,400	\$15,000	\$37,400	\$3,494
2122	0.0912	\$2,200	\$15,000	\$17,200	\$1,568
2123	0.0889	\$2,200	\$15,000	\$17,200	\$1,530
2124	0.0868	\$2,200	\$15,000	\$17,200	\$1,492
2125	0.0846	\$2,200	\$15,000	\$17,200	\$1,456
2126	0.0826	\$22,400	\$15,000	\$37,400	\$3,089
2127	0.0806	\$2,200	\$15,000	\$17,200	\$1,386
2128	0.0786	\$2,200	\$15,000	\$17,200	\$1,352
2129	0.0767	\$2,200	\$15,000	\$17,200	\$1,319
2130	0.0748	\$2,200	\$15,000	\$17,200	\$1,287
2131	0.0730	\$22,400	\$15,000	\$37,400	\$2,730
2132	0.0712	\$2,200	\$15,000	\$17,200	\$1,225

Routine Inspection
NSTM Inspection
Routine Inspection
In-Depth Inspection*
Routine Inspection
NSTM Inspection
Routine Inspection
Routine Inspection
Routine Inspection
Routine Inspection
In-Depth Inspection**

4-Year Repeating Cycle (Exist. Bridge) until New Bridge is Constructed
5-Year Repeating Cycle (New Bridge)

* In-Depth Inspection includes NSTM Inspection, Ultrasonic Pin Testing, & Full Condition/Recommendation Report.

** In-Depth Inspection includes Full Condition/Recommendation Report.

Notes:
1. Costs are based on the 2017 LCCA Report. They were inflated to 2024 dollar values.
2. The Subtotal Net Present Value was then inflated (by 33%) to match the initial and future cost estimate dollar values used for a 2030 construction start date.
3. Discount Rate (i) is assumed to be 2.50%.

Total = \$2,876,600
Total Net Present Value = \$1,349,300
33% (Inflation, 2030 begin construction) = \$445,300
Total Net Present Value = \$1,794,600

Alternative 3 Inspection & Routine Maint. Cost Calculations					
Year	Present Value Factor	Inspection Cost	Routine Maint. Cost	Total Cost	Present Value Cost
2025	1.0000	\$7,500	\$74,900	\$82,400	\$82,400
2026	0.9756	\$47,700	\$74,900	\$122,600	\$119,610
2027	0.9518	\$7,500	\$74,900	\$82,400	\$78,430
2028	0.9286	\$85,700	\$74,900	\$160,600	\$149,133
2029	0.9060	\$7,500	\$74,900	\$82,400	\$74,650
2030	0.8839	\$47,700	\$74,900	\$122,600	\$108,361
2031	0.8623	\$7,500	\$74,900	\$82,400	\$71,053
2032	0.8413	\$5,000	\$15,000	\$20,000	\$16,825
2033	0.8207	\$5,000	\$15,000	\$20,000	\$16,415
2034	0.8007	\$5,000	\$15,000	\$20,000	\$16,015
2035	0.7812	\$5,000	\$15,000	\$20,000	\$15,624
2036	0.7621	\$50,000	\$15,000	\$65,000	\$49,539
2037	0.7436	\$5,000	\$15,000	\$20,000	\$14,871
2038	0.7254	\$5,000	\$15,000	\$20,000	\$14,508
2039	0.7077	\$5,000	\$15,000	\$20,000	\$14,155
2040	0.6905	\$5,000	\$15,000	\$20,000	\$13,809
2041	0.6736	\$50,000	\$15,000	\$65,000	\$43,786
2042	0.6572	\$5,000	\$15,000	\$20,000	\$13,144
2043	0.6412	\$5,000	\$15,000	\$20,000	\$12,823
2044	0.6255	\$5,000	\$15,000	\$20,000	\$12,511
2045	0.6103	\$5,000	\$15,000	\$20,000	\$12,205
2046	0.5954	\$50,000	\$15,000	\$65,000	\$38,700
2047	0.5809	\$5,000	\$15,000	\$20,000	\$11,617
2048	0.5667	\$5,000	\$15,000	\$20,000	\$11,334
2049	0.5529	\$5,000	\$15,000	\$20,000	\$11,058
2050	0.5394	\$5,000	\$15,000	\$20,000	\$10,788
2051	0.5262	\$50,000	\$15,000	\$65,000	\$34,205
2052	0.5134	\$5,000	\$15,000	\$20,000	\$10,268
2053	0.5009	\$5,000	\$15,000	\$20,000	\$10,018
2054	0.4887	\$5,000	\$15,000	\$20,000	\$9,773
2055	0.4767	\$5,000	\$15,000	\$20,000	\$9,535
2056	0.4651	\$50,000	\$15,000	\$65,000	\$30,232
2057	0.4538	\$5,000	\$15,000	\$20,000	\$9,075
2058	0.4427	\$5,000	\$15,000	\$20,000	\$8,854
2059	0.4319	\$5,000	\$15,000	\$20,000	\$8,638
2060	0.4214	\$5,000	\$15,000	\$20,000	\$8,427
2061	0.4111	\$50,000	\$15,000	\$65,000	\$26,721
2062	0.4011	\$5,000	\$15,000	\$20,000	\$8,021
2063	0.3913	\$5,000	\$15,000	\$20,000	\$7,826
2064	0.3817	\$5,000	\$15,000	\$20,000	\$7,635
2065	0.3724	\$5,000	\$15,000	\$20,000	\$7,449
2066	0.3633	\$50,000	\$15,000	\$65,000	\$23,618
2067	0.3545	\$5,000	\$15,000	\$20,000	\$7,090
2068	0.3458	\$5,000	\$15,000	\$20,000	\$6,917
2069	0.3374	\$5,000	\$15,000	\$20,000	\$6,748
2070	0.3292	\$5,000	\$15,000	\$20,000	\$6,583
2071	0.3211	\$50,000	\$15,000	\$65,000	\$20,874
2072	0.3133	\$5,000	\$15,000	\$20,000	\$6,266
2073	0.3057	\$5,000	\$15,000	\$20,000	\$6,113
2074	0.2982	\$5,000	\$15,000	\$20,000	\$5,964
2075	0.2909	\$5,000	\$15,000	\$20,000	\$5,819
2076	0.2838	\$50,000	\$15,000	\$65,000	\$18,450
2077	0.2769	\$5,000	\$15,000	\$20,000	\$5,538
2078	0.2702	\$5,000	\$15,000	\$20,000	\$5,403
2079	0.2636	\$5,000	\$15,000	\$20,000	\$5,272
2080	0.2572	\$5,000	\$15,000	\$20,000	\$5,143
2081	0.2509	\$50,000	\$15,000	\$65,000	\$16,307
2082	0.2448	\$5,000	\$15,000	\$20,000	\$4,895
2083	0.2388	\$5,000	\$15,000	\$20,000	\$4,776
2084	0.2330	\$5,000	\$15,000	\$20,000	\$4,659
2085	0.2273	\$5,000	\$15,000	\$20,000	\$4,546
2086	0.2217	\$50,000	\$15,000	\$65,000	\$14,413
2087	0.2163	\$5,000	\$15,000	\$20,000	\$4,327
2088	0.2111	\$5,000	\$15,000	\$20,000	\$4,221
2089	0.2059	\$5,000	\$15,000	\$20,000	\$4,118
2090	0.2009	\$5,000	\$15,000	\$20,000	\$4,018
2091	0.1960	\$50,000	\$15,000	\$65,000	\$12,739
2092	0.1912	\$5,000	\$15,000	\$20,000	\$3,824
2093	0.1865	\$5,000	\$15,000	\$20,000	\$3,731
2094	0.1820	\$5,000	\$15,000	\$20,000	\$3,640
2095	0.1776	\$5,000	\$15,000	\$20,000	\$3,551
2096	0.1732	\$50,000	\$15,000	\$65,000	\$11,259
2097	0.1690	\$5,000	\$15,000	\$20,000	\$3,380
2098	0.1649	\$5,000	\$15,000	\$20,000	\$3,298
2099	0.1609	\$5,000	\$15,000	\$20,000	\$3,217
2100	0.1569	\$5,000	\$15,000	\$20,000	\$3,139
2101	0.1531	\$50,000	\$15,000	\$65,000	\$9,952
2102	0.1494	\$5,000	\$15,000	\$20,000	\$2,987
2103	0.1457	\$5,000	\$15,000	\$20,000	\$2,915
2104	0.1422	\$5,000	\$15,000	\$20,000	\$2,843
2105	0.1387	\$5,000	\$15,000	\$20,000	\$2,774
2106	0.1353	\$50,000	\$15,000	\$65,000	\$8,796
2107	0.1320	\$5,000	\$15,000	\$20,000	\$2,640
2108	0.1288	\$5,000	\$15,000	\$20,000	\$2,576
2109	0.1257	\$5,000	\$15,000	\$20,000	\$2,513
2110	0.1226	\$5,000	\$15,000	\$20,000	\$2,452
2111	0.1196	\$50,000	\$15,000	\$65,000	\$7,774
2112	0.1167	\$5,000	\$15,000	\$20,000	\$2,334
2113	0.1138	\$5,000	\$15,000	\$20,000	\$2,277
2114	0.1111	\$5,000	\$15,000	\$20,000	\$2,221
2115	0.1084	\$5,000	\$15,000	\$20,000	\$2,167
2116	0.1057	\$50,000	\$15,000	\$65,000	\$6,871
2117	0.1031	\$5,000	\$15,000	\$20,000	\$2,063
2118	0.1006	\$5,000	\$15,000	\$20,000	\$2,012
2119	0.0982	\$5,000	\$15,000	\$20,000	\$1,963
2120	0.0958	\$5,000	\$15,000	\$20,000	\$1,915
2121	0.0934	\$50,000	\$15,000	\$65,000	\$6,073
2122	0.0912	\$5,000	\$15,000	\$20,000	\$1,823
2123	0.0889	\$5,000	\$15,000	\$20,000	\$1,779
2124	0.0868	\$5,000	\$15,000	\$20,000	\$1,735
2125	0.0846	\$5,000	\$15,000	\$20,000	\$1,693
2126	0.0826	\$50,000	\$15,000	\$65,000	\$5,368
2127	0.0806	\$5,000	\$15,000	\$20,000	\$1,611
2128	0.0786	\$5,000	\$15,000	\$20,000	\$1,572
2129	0.0767	\$5,000	\$15,000	\$20,000	\$1,534
2130	0.0748	\$5,000	\$15,000	\$20,000	\$1,496
2131	0.0730	\$50,000	\$15,000	\$65,000	\$4,744
2132	0.0712	\$5,000	\$15,000	\$20,000	\$1,424

Routine Inspection
NSTM Inspection
Routine Inspection
In-Depth Inspection*
Routine Inspection
NSTM Inspection
Routine Inspection
Routine Inspection
Routine Inspection
Routine Inspection
In-Depth Inspection**

4-Year Repeating Cycle (Exist. Bridge) until New Bridge is Constructed
5-Year Repeating Cycle (New Bridge)

* In-Depth Inspection includes NSTM Inspection, Ultrasonic Pin Testing, & Full Condition/Recommendation Report.

** In-Depth Inspection includes Full Condition/Recommendation Report.

Notes:
1. Costs are based on the 2017 LCCA Report. They were inflated to 2024 dollar values.
2. The Subtotal Net Present Value was then inflated (by 33%) to match the initial and future cost estimate dollar values used for a 2030 construction start date.
3. Discount Rate (i) is assumed to be 2.50%.

Total = \$3,655,400
Total Net Present Value = \$1,586,800
33% (Inflation, 2030 begin construction) = \$523,700
Total Net Present Value = \$2,110,500

Alternative 4 Inspection & Routine Maint. Cost Calculations					
Year	Present Value Factor	Inspection Cost	Routine Maint. Cost	Total Cost	Present Value Cost
2025	1.0000	\$7,500	\$74,900	\$82,400	\$82,400
2026	0.9756	\$47,700	\$74,900	\$122,600	\$119,610
2027	0.9518	\$7,500	\$74,900	\$82,400	\$78,430
2028	0.9286	\$85,700	\$74,900	\$160,600	\$149,133
2029	0.9060	\$7,500	\$74,900	\$82,400	\$74,650
2030	0.8839	\$47,700	\$74,900	\$122,600	\$108,361
2031	0.8623	\$7,500	\$74,900	\$82,400	\$71,053
2032	0.8413	\$3,000	\$15,000	\$18,000	\$15,143
2033	0.8207	\$3,000	\$15,000	\$18,000	\$14,773
2034	0.8007	\$3,000	\$15,000	\$18,000	\$14,413
2035	0.7812	\$3,000	\$15,000	\$18,000	\$14,062
2036	0.7621	\$30,000	\$15,000	\$45,000	\$34,297
2037	0.7436	\$3,000	\$15,000	\$18,000	\$13,384
2038	0.7254	\$3,000	\$15,000	\$18,000	\$13,058
2039	0.7077	\$3,000	\$15,000	\$18,000	\$12,739
2040	0.6905	\$3,000	\$15,000	\$18,000	\$12,428
2041	0.6736	\$30,000	\$15,000	\$45,000	\$30,313
2042	0.6572	\$3,000	\$15,000	\$18,000	\$11,830
2043	0.6412	\$3,000	\$15,000	\$18,000	\$11,541
2044	0.6255	\$3,000	\$15,000	\$18,000	\$11,259
2045	0.6103	\$3,000	\$15,000	\$18,000	\$10,985
2046	0.5954	\$30,000	\$15,000	\$45,000	\$26,792
2047	0.5809	\$3,000	\$15,000	\$18,000	\$10,456
2048	0.5667	\$3,000	\$15,000	\$18,000	\$10,201
2049	0.5529	\$3,000	\$15,000	\$18,000	\$9,952
2050	0.5394	\$3,000	\$15,000	\$18,000	\$9,709
2051	0.5262	\$30,000	\$15,000	\$45,000	\$23,681
2052	0.5134	\$3,000	\$15,000	\$18,000	\$9,241
2053	0.5009	\$3,000	\$15,000	\$18,000	\$9,016
2054	0.4887	\$3,000	\$15,000	\$18,000	\$8,796
2055	0.4767	\$3,000	\$15,000	\$18,000	\$8,581
2056	0.4651	\$30,000	\$15,000	\$45,000	\$20,930
2057	0.4538	\$3,000	\$15,000	\$18,000	\$8,168
2058	0.4427	\$3,000	\$15,000	\$18,000	\$7,969
2059	0.4319	\$3,000	\$15,000	\$18,000	\$7,774
2060	0.4214	\$3,000	\$15,000	\$18,000	\$7,585
2061	0.4111	\$30,000	\$15,000	\$45,000	\$18,499
2062	0.4011	\$3,000	\$15,000	\$18,000	\$7,219
2063	0.3913	\$3,000	\$15,000	\$18,000	\$7,043
2064	0.3817	\$3,000	\$15,000	\$18,000	\$6,871
2065	0.3724	\$3,000	\$15,000	\$18,000	\$6,704
2066	0.3633	\$30,000	\$15,000	\$45,000	\$16,351
2067	0.3545	\$3,000	\$15,000	\$18,000	\$6,381
2068	0.3458	\$3,000	\$15,000	\$18,000	\$6,225
2069	0.3374	\$3,000	\$15,000	\$18,000	\$6,073
2070	0.3292	\$3,000	\$15,000	\$18,000	\$5,925
2071	0.3211	\$30,000	\$15,000	\$45,000	\$14,452
2072	0.3133	\$3,000	\$15,000	\$18,000	\$5,640
2073	0.3057	\$3,000	\$15,000	\$18,000	\$5,502
2074	0.2982	\$3,000	\$15,000	\$18,000	\$5,368
2075	0.2909	\$3,000	\$15,000	\$18,000	\$5,237
2076	0.2838	\$30,000	\$15,000	\$45,000	\$12,773
2077	0.2769	\$3,000	\$15,000	\$18,000	\$4,985
2078	0.2702	\$3,000	\$15,000	\$18,000	\$4,863
2079	0.2636	\$3,000	\$15,000	\$18,000	\$4,744
2080	0.2572	\$3,000	\$15,000	\$18,000	\$4,629
2081	0.2509	\$30,000	\$15,000	\$45,000	\$11,290
2082	0.2448	\$3,000	\$15,000	\$18,000	\$4,406
2083	0.2388	\$3,000	\$15,000	\$18,000	\$4,298
2084	0.2330	\$3,000	\$15,000	\$18,000	\$4,193
2085	0.2273	\$3,000	\$15,000	\$18,000	\$4,091
2086	0.2217	\$30,000	\$15,000	\$45,000	\$9,978
2087	0.2163	\$3,000	\$15,000	\$18,000	\$3,894
2088	0.2111	\$3,000	\$15,000	\$18,000	\$3,799
2089	0.2059	\$3,000	\$15,000	\$18,000	\$3,706
2090	0.2009	\$3,000	\$15,000	\$18,000	\$3,616
2091	0.1960	\$30,000	\$15,000	\$45,000	\$8,819
2092	0.1912	\$3,000	\$15,000	\$18,000	\$3,442
2093	0.1865	\$3,000	\$15,000	\$18,000	\$3,358
2094	0.1820	\$3,000	\$15,000	\$18,000	\$3,276
2095	0.1776	\$3,000	\$15,000	\$18,000	\$3,196
2096	0.1732	\$30,000	\$15,000	\$45,000	\$7,795
2097	0.1690	\$3,000	\$15,000	\$18,000	\$3,042
2098	0.1649	\$3,000	\$15,000	\$18,000	\$2,968
2099	0.1609	\$3,000	\$15,000	\$18,000	\$2,895
2100	0.1569	\$3,000	\$15,000	\$18,000	\$2,825
2101	0.1531	\$30,000	\$15,000	\$45,000	\$6,890
2102	0.1494	\$3,000	\$15,000	\$18,000	\$2,689
2103	0.1457	\$3,000	\$15,000	\$18,000	\$2,623
2104	0.1422	\$3,000	\$15,000	\$18,000	\$2,559
2105	0.1387	\$3,000	\$15,000	\$18,000	\$2,497
2106	0.1353	\$30,000	\$15,000	\$45,000	\$6,089
2107	0.1320	\$3,000	\$15,000	\$18,000	\$2,376
2108	0.1288	\$3,000	\$15,000	\$18,000	\$2,318
2109	0.1257	\$3,000	\$15,000	\$18,000	\$2,262
2110	0.1226	\$3,000	\$15,000	\$18,000	\$2,207
2111	0.1196	\$30,000	\$15,000	\$45,000	\$5,382
2112	0.1167	\$3,000	\$15,000	\$18,000	\$2,100
2113	0.1138	\$3,000	\$15,000	\$18,000	\$2,049
2114	0.1111	\$3,000	\$15,000	\$18,000	\$1,999
2115	0.1084	\$3,000	\$15,000	\$18,000	\$1,950
2116	0.1057	\$30,000	\$15,000	\$45,000	\$4,757
2117	0.1031	\$3,000	\$15,000	\$18,000	\$1,856
2118	0.1006	\$3,000	\$15,000	\$18,000	\$1,811
2119	0.0982	\$3,000	\$15,000	\$18,000	\$1,767
2120	0.0958	\$3,000	\$15,000	\$18,000	\$1,724
2121	0.0934	\$30,000	\$15,000	\$45,000	\$4,205
2122	0.0912	\$3,000	\$15,000	\$18,000	\$1,641
2123	0.0889	\$3,000	\$15,000	\$18,000	\$1,601
2124	0.0868	\$3,000	\$15,000	\$18,000	\$1,562
2125	0.0846	\$3,000	\$15,000	\$18,000	\$1,524
2126	0.0826	\$30,000	\$15,000	\$45,000	\$3,716
2127	0.0806	\$3,000	\$15,000	\$18,000	\$1,450
2128	0.0786	\$3,000	\$15,000	\$18,000	\$1,415
2129	0.0767	\$3,000	\$15,000	\$18,000	\$1,380
2130	0.0748	\$3,000	\$15,000	\$18,000	\$1,347
2131	0.0730	\$30,000	\$15,000	\$45,000	\$3,285
2132	0.0712	\$3,000	\$15,000	\$18,000	\$1,282

Routine Inspection
NSTM Inspection
Routine Inspection
In-Depth Inspection*
Routine Inspection
NSTM Inspection
Routine Inspection
Routine Inspection
Routine Inspection
Routine Inspection
In-Depth Inspection**

4-Year Repeating Cycle (Exist. Bridge) until New Bridge is Constructed
5-Year Repeating Cycle (New Bridge)

* In-Depth Inspection includes NSTM Inspection, Ultrasonic Pin Testing, & Full Condition/Recommendation Report.

** In-Depth Inspection includes Full Condition/Recommendation Report.

- Notes:
1. Costs are based on the 2017 LCCA Report. They were inflated to 2024 dollar values.
 2. The Subtotal Net Present Value was then inflated (by 33%) to match the initial and future cost estimate dollar values used for a 2030 construction start date.
 3. Discount Rate (i) is assumed to be 2.50%.

Total = \$3,093,400
Total Net Present Value = \$1,415,400
33% (Inflation, 2030 begin construction) = \$467,100
Total Net Present Value = \$1,882,500