

Appendix M – MWRRI Planning Phase 5 Model for Annual Cyclic Capial Costs

HNTB SUMMARY OF MIDWEST REGIONAL RAIL SYSTEM MAINTENANCE COSTS

From	To	Through	Total Mileage	2	3	4	5	6	Total Track Mileage	ZT Maint Cost x Seg. Length x # of Annual Train Miles	Maximum Number of Pass. Trains	Highest Proposed Pass. Trn. Speed	Max. Corr. Freight Tonnage 2022	Cap. Cost Per Train Mile Times Total No. of Miles	Total Cost Capital Cost Plus Different. Maint. Cost
Chicago	Pontiac	Detroit	301.7	0.4	56.5	99.7	3.0	298.6	458.2	\$ 8,855,515	30	110	125	\$ 6,954,374	\$ 15,809,889
Chicago	St. Louis	Springfield	283.5	5.0	25.2	96.2	0.0	206.5	332.9	\$ 4,180,531	16	110	66	\$ 3,048,106	\$ 7,228,638
Chicago	St. Paul	Madison	443	3.8	28.6	71.8	187.0	598.6	889.8	\$ 12,096,577	34	110	79	\$ 7,451,580	\$ 19,548,157
Port Huron	Battle Creek	Flint	158.4	0.8	36.8	187.7	0.0	0.0	225.3	\$ 653,965	8	79	55	\$ 1,290,964	\$ 1,944,929
Holland	Kalamazoo	Grand Rapids	74.1	0.5	5.3	78.6	0.0	0.0	84.4	\$ 316,581	8	79	27	\$ 515,538	\$ 832,118
Chicago	Cleveland	Fort Wayne	346.5	0.0	34.5	149.6	0.0	303.8	487.9	\$ 7,412,032	18	110	10	\$ 6,722,939	\$ 14,134,971
Chicago	Quincy	Galesburg	258.6	0.0	48.5	17.2	404.4	0.0	470.1	\$ 2,679,281	18	110	72	\$ 2,189,523	\$ 4,868,804
Chicago	Omaha	Quad Cities	475.1	0.0	77.5	514.2	204.0	0.0	795.7	\$ 1,845,468	18	110	72	\$ 3,567,492	\$ 5,412,960
Chicago	Cincinnati	Indianapolis	309.9	4.6	60.8	202.7	0.0	181.1	449.2	\$ 4,440,835	12	110	91	\$ 4,720,840	\$ 9,161,675
Milwaukee	Green Bay	West Bend	128.6	0.7	30.0	72.1	0.0	84.2	187.0	\$ 1,525,099	14	110	70	\$ 1,443,457	\$ 2,968,556
St. Louis	Kansas City	Jefferson City	283.0	3.8	33.6	28.4	500.2	0.0	566.0	\$ 4,577,004	8	90*	278	\$ 3,242,064	\$ 7,819,068
Chicago	Carbondale	Champaign	308.4	2.4	43.3	103.2	488.6	0.0	637.5	\$ 3,576,150	10	90	50	\$ 3,009,239	\$ 6,585,388

Totals 3,370.7 22.0 480.6 1,621.4 1,787.2 1,672.8 5,584.0 \$ 52,159,036 194 \$ 44,156,117 \$ 96,315,153

Estimated Number of Annual Train Miles at Full Buildout 13,767,031
 Maintenance Cost/TM \$ 3.79
 Cyclic \$ 3.21
 Total \$ 7.00

Charlie Quandel of HNTB interpreted the FRA Technical Monograph dated January 2004; assured that infrastructure shown herein reflected the infrastructure used in the capital cost estimates; and calculated the maintenance and cyclic capital costs presented in this report

Robert Kollmar of Amtrak developed spreadsheet linkages, infrastructure build-up, and assembled freight information

