

WALWORTH COUNTY DEPARTMENT OF PUBLIC WORKS

FULL FED FUNDING (SCENARIO 1)

2022 - 2031 Major Highway / Bridge Improvement Plan

- SUMMARY -

Updated: May 06, 2022

PASER

SUFFIC

LEAST LIKELY

	HWY	PROJECT NAME	CL MI	(Present) (Anticipated)	(Present) (Anticipated)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
1	CTH-B	Castle Terrace to Linton Road	2.6	5 5		Construct \$1,650,000									
2	CTH-O	CTH-A to USH-12	5.4	5 5		Design \$189,000	Construct \$2,808,000								
3	CTH-O	USH-14 To I-43	3.7	6 5		Design \$129,500	Construct \$1,924,000								
4	CTH-P	Bridge over Turtle Creek	N/A		62 45	Design \$98,000	Construct \$625,000								
5	CTH-C	Bridge over Turtle Creek	N/A		39 30	Final Design \$55,000	Construct \$1,800,000								
6	CTH-C	USH-14 to USH-14	3.6	5 4		Design \$126,000	Construct \$1,872,000								
7	CTH-B	Gregory Drive to CTH-H - Genoa	0.6	5 4		Re-Design \$80,000	Construct \$2,650,000								
8	CTH-A	West Co. Line to CTH-P (south)	5.9	6 5		Design \$354,000	Design	Construct \$3,392,500							
9	CTH-C	CTH-B to CTH-X	4.1	6 4		Design \$246,000	Design	Design	Construct \$2,357,500						
10	CTH-DD	CTH-JS to CTH-D	5.2	5 4		Design \$312,000	Design	Design	Construct \$2,990,000						
11	CTH-H	USH-12 to Jefferson Co. Line	3.2	5 4		Design \$112,000	Design	Construct \$1,664,000							
12	CTH-L	STH-20 to Racine Co. Line	4.0	7 5		Design \$140,000	Design	Construct \$2,080,000							
13	CTH-A	CTH-P (south) to STH-67	6.3	6 5		Design \$220,500	Design	Design	Construct \$3,276,000						
14	CTH-H	Williams St to STH-120 (Lake Geneva)	0.6	5 3		Design \$45,000	Design	Design	Construct \$336,000						
15	CTH-K	S. County Line to USH-14	5.7	6 4		Design \$199,500	Design	Design	Construct \$2,964,000						
16	CTH-ES	USH-12 to CTH-A	1.7	7 5		Design \$59,500	Design	Design	Construct \$884,000						
17	CTH-G	STH-120 to Ausitn St.	0.7	5 4		Design \$52,500	Design	Design	Construct \$392,000						
18	CTH-B	Linton Road to STH-120	5.3	6 4		Design \$185,500	Design	Design	Construct \$2,756,000						
19	CTH-B	CTH-U to Kenosha Co. Line	0.9	5 4		Design \$31,500	Design	Design	Construct \$468,000						
20	CTH-C	State Line to CTH-B	4.6	7 4		Design \$161,000	Design	Design	Construct \$2,392,000						
21	CTH-F	STH-67 to STH-50	4.2	8 5		Design \$147,000	Design	Design	Construct \$2,184,000						
22	CTH-N	STH-20 to CTH-J	1.6	8 5		Design \$56,000	Design	Design	Construct \$832,000						
23	CTH-H	Lake Geneva Limits to CTH-NN (EIK)	6.0	8 5		Design \$210,000	Design	Design	Design						
24	TBD					Design \$175,000	Design	Design	Design						
PROJECTED TOTALS:						\$2,121,500	\$7,717,000	\$5,192,000	\$5,196,500	\$7,693,000	\$3,923,500	\$4,457,000	\$3,385,000	\$2,595,000	\$3,401,000
ESTIMATED CHI:							-\$222,172		-\$225,000		-\$225,000		-\$225,000		-\$225,000
ESTIMATED CHI-D:							-\$387,252		-\$387,252		-\$387,252		-\$387,252		-\$387,252
Other / CHI-S:								-\$694,506							-\$694,506
LOCAL PROGRAM - STP:									-\$2,714,000	-\$4,278,000					-\$6,992,000
LOCAL REIMBURSEMENT:							-\$2,808,000	-\$1,000,000							-\$3,808,000
(2022 Dollars) TOTAL w/AID:						\$2,121,500	\$4,299,576	\$3,497,494	\$1,870,248	\$3,415,000	\$3,311,248	\$4,457,000	\$2,772,748	\$2,595,000	\$2,788,748
TOTAL w/ 3.5% Annual Inflation:						\$2,121,500	\$4,450,061	\$3,746,603	\$2,073,577	\$3,918,791	\$3,932,724	\$5,478,791	\$3,527,710	\$3,417,119	\$3,800,777
						(2022-2026) 5-YEAR AVERAGE w/ Inflation:				\$3,262,106.52	(2027-2031) 5-YEAR AVERAGE w/ Inflation:				\$4,031,424.28
						Shortage				\$562,107	Shortage				\$1,331,424

STRATEGIC OPTION A (Major Federal Support w/Reduced State Funding)
P1 - ARPA Funding Included on Table, Along with Traditional LRIP funding sources
P2 - Frontloads mileage to sustain 30-year average because of federal funding windows
P3 - Completes final two bridges in original 5 bridges in 5 years strategy
P4 - Address large and small segments of road in poor (critical) condition
P5 - Assumes sustain levels of LRIP funding despite low growth
P6 - By the end of the decade County returns to a keep good roads good strategy

Director's Comment: Least likely scenario but the department will know more come August. Results in annual shortage of \$600,000 (2022-2026) and \$1.3M (2027-2031)

ANNUAL TOTALS		
Year	Miles	Bridges
2022	2.6	
2023	9.1	2
2024	4.2	
2025	9.1	
2026	13.3	
2027	6.9	
2028	8.1	
2029	6.2	
2030	4.6	
2031	5.8	
Total	69.9	

10-YEAR SUMMARY:	
	\$45,681,500
	-\$1,122,172
	-\$1,936,260
	-\$694,506
	-\$6,992,000
	-\$3,808,000
	\$31,128,562
	\$36,467,654

WALWORTH COUNTY DEPARTMENT OF PUBLIC WORKS

FULL FED FUNDING W/MAX LRIP (SCENARIO 2)

2022 - 2031 Major Highway / Bridge Improvement Plan

- SUMMARY -

Updated: May 06, 2022

PASER

SUFFIC

UNLIKELY

	HWY	PROJECT NAME	CL MI	(Present) (Anticipated)	(Present) (Anticipated)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
	1	CTH-B	Castle Terrace to Linton Road	2.6	5	Construct \$1,650,000									
ARPA	2	CTH-O	CTH-A to USH-12	5.4	5	Design \$189,000	Construct \$2,808,000	P1							
LRIP	3	CTH-O	USH-14 To I-43	3.7	6	Design \$129,500	Construct \$1,924,000				STRATEGIC OPTION B (Same Federal Funds w/Sustained State Funding) P1 - ARPA Funding Included on Table, Along with Present LRIP funding sources P2 - Frontloads mileage to sustain 30-year average because of federal funding windows P3 - Completes final two bridges in original 5 bridges in 5 years strategy P4 - Address large and small segments of road in poor (critical) condition P5 - Assumes <u>sustained</u> levels of LRIP funding despite low growth P6 - By the end of the decade County returns to a keep good roads good strategy P7 - Three (3) Federal STP Projects Director's Comment: <u>Un-likely</u> scenario but the department will know more come August. Results in annual shortage of \$500K (2022-2026) and \$750K (2027-2031)				
	4	CTH-P	Bridge over Turtle Creek	N/A	62	Design \$98,000	Construct \$625,000								
	5	CTH-C	Bridge over Turtle Creek	N/A	39	Final Design \$55,000	Construct \$1,800,000								
	6	CTH-C	USH-14 to USH-14	3.6	5	Design \$126,000	Construct \$1,872,000								
LRIP-S 2023	7	CTH-B	Gregory Drive to CTH-H - Genoa	0.6	5	Re-Design \$80,000	Construct \$2,650,000								
STP-R	8	CTH-A	West Co. Line to CTH-P (south)	5.9	6	Design \$354,000	Design	Construct \$3,392,500	P7						
STP-R	9	CTH-C	CTH-B to CTH-X	4.1	6	Design \$246,000	Design	Construct* \$2,357,500							
STP-R	10	CTH-DD	CTH-JS to CTH-D	5.2	5	Design \$312,000	Design	Construct* \$2,990,000							
LRIP	11	CTH-H	USH-12 to Jefferson Co. Line	3.2	5	Design \$112,000	Construct \$1,664,000								
LRIP-S 2025	12	CTH-L	STH-20 to Racine Co. Line	4.0	7	Design \$140,000	Design	Construct \$2,080,000							
LRIP	13	CTH-A	CTH-P (south) to STH-67	6.3	6	Design \$220,500	Design	Construct \$3,276,000							
	14	CTH-H	Williams St to STH-120 (Lake Geneva)	0.6	5	Design \$45,000	Design	Construct \$336,000							
LRIP-S 2027	15	CTH-K	S. County Line to USH-14	5.7	6	Design \$199,500	Design	Construct \$2,964,000	Moved Up to Qualify for LRIP-S						
LRIP	16	CTH-ES	USH-12 to CTH-A	1.7	7	Design \$59,500	Design	Construct \$884,000							
	17	CTH-G	STH-120 to Ausitn St.	0.7	5	Design \$52,500	Design	Construct \$392,000							
LRIP-S 2029	18	CTH-B	Linton Road to STH-120	5.3	6	Design \$185,500	Design	Construct \$2,756,000							
	19	CTH-B	CTH-U to Kenosha Co. Line	0.9	5	Design \$31,500	Design	Construct \$468,000							
	20	CTH-N	STH-20 to CTH-J	1.6	8	Design \$56,000	Design	Construct \$832,000							
LRIP-S 2031	21	CTH-C	State Line to CTH-B	4.6	7	Design \$161,000	Design	Construct \$2,392,000	Moved Back to Qualify for LRIP-S						
LRIP	22	CTH-F	STH-67 to STH-50	4.2	8	Design \$147,000	Design	Construct \$2,184,000							
	23	CTH-H	Lake Geneva Limits to CTH-NN (Elk)	6.0	8	Design \$210,000	Design	Design \$175,000							
	24	TBD													
PROJECTED TOTALS:						\$2,121,500	\$7,717,000	\$5,192,000	\$5,196,500	\$7,892,500	\$6,628,500	\$668,500	\$4,164,000	\$1,140,000	\$4,961,000
ESTIMATED CHI:							-\$222,172		-\$225,000		-\$225,000		-\$225,000		-\$225,000
ESTIMATED CHI-D:							-\$387,252		-\$387,252		-\$387,252		-\$387,252		-\$387,252
Other / CHI-S:							----->	-\$694,506	----->	-\$694,506	-\$694,506		-\$694,506		-\$694,506
ARPA Funds							-\$2,808,000	P1							
LOCAL PROGRAM - STP:									-\$2,714,000	-\$4,278,000					
LOCAL REIMBURSEMENT:								-\$1,000,000							
(2022 Dollars) TOTAL w/AID:						\$2,121,500	\$4,299,576	\$3,497,494	\$1,870,248	\$2,919,994	\$5,321,742	\$668,500	\$2,857,242	\$1,140,000	\$3,654,242
TOTAL w/ 3.5% Annual Inflation:						\$2,121,500	\$4,450,061	\$3,746,603	\$2,073,577	\$3,350,760	\$6,320,560	\$821,757	\$3,635,210	\$1,501,162	\$4,980,357
(2022-2026) 5-YEAR AVERAGE w/ Inflation:										\$3,148,500.37	(2027-2031) 5-YEAR AVERAGE w/ Inflation:			\$3,451,809.22	
Shortage										\$448,500	Shortage			\$751,809	

ANNUAL TOTALS		
Year	Miles	Bridges
2022	2.6	
2023	9.1	2
2024	4.2	
2025	9.1	
2026	13.3	
2027	12.6	
2028	0.7	
2029	7.9	
2030	1.6	
2031	8.8	
Total	69.9	

10-YEAR SUMMARY:	
	\$45,681,500
	-\$1,122,172
	-\$1,936,260
	-\$3,472,530
	-\$2,808,000
	-\$6,992,000
	-\$1,000,000
	\$28,350,538
	\$33,001,548

WALWORTH COUNTY DEPARTMENT OF PUBLIC WORKS
 2022 - 2031 Major Highway / Bridge Improvement Plan
 Updated: May 06, 2022

PARTIAL FED FUNDING W/MAX LRIP BUT LEVY CONSTRAINED (SCENARIO 4)

- SUMMARY -

PASER SUFFIC SERVICE REDUCTION

	HWY	PROJECT NAME	CL MI	(Present) (Anticipated)	(Present) (Anticipated)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
	1	CTH-B	Castle Terrace to Linton Road	2.6	5	Construct \$1,650,000									
ARPA	2	CTH-O	CTH-A to USH-12	5.4	5	Design \$189,000	Construct \$2,808,000	P1★							
LRIP 2023	3	CTH-O	USH-14 To I-43	3.7	6	Design \$129,500	Construct \$1,924,000				STRATEGIC OPTION C Lower Federal Funds w/Sustained State Funding P1 - ARPA Funding Included on Table, Along with Present LRIP funding sources P2 - Frontloads mileage to sustain 30-year average because of federal funding windows P3 - Completes final two bridges in original 5 bridges in 5 years strategy P4 - Address large and small segments of road in poor (critical) condition with reserves P5 - Assumes <u>sustained</u> levels of LRIP funding despite low growth P6 - Potentially returns to a keep good roads good strategy P7 - One (1) Federal STP Project P8 - Overall road average 35-year average; kicking the can Director's Comment: Balanced 5-Year Segments at Levy but major increase in life-cycle improvements				
	4	CTH-P	Bridge over Turtle Creek	N/A	62	Design \$98,000	Construct \$625,000								
	5	CTH-C	Bridge over Turtle Creek	N/A	39	Final Design \$55,000	Construct \$1,800,000								
	6	CTH-C	USH-14 to USH-14	3.6	5		Design \$126,000	Construct \$1,872,000							
LRIP-S 2023	7	CTH-B	Gregory Drive to CTH-H - Genoa	0.6	5		Re-Design \$80,000	Construct \$2,650,000							
STP-R	8	CTH-A	West Co. Line to CTH-P (south)	5.9	6		Design \$354,000	Design	Construct \$3,392,500	P7★					
LRIP-S 2025*	9	CTH-C	CTH-B to CTH-X	4.1	6			Design \$246,000	Construct* \$2,132,000						
LRIP 2025	10	CTH-H	USH-12 to Jefferson Co. Line	3.2	5			Design \$112,000	Construct \$1,664,000						
	11	CTH-L	STH-20 to Racine Co. Line	4.0	7				Design \$140,000	Construct \$2,080,000					
LRIP-S 2027*	12	CTH-DD	CTH-JS to CTH-D	5.2	5					Design \$182,000	Construct 2,704,000.0				
LRIP 2027	13	CTH-ES	USH-12 to CTH-A	1.7	7					Design \$59,500	Construct \$884,000				
	14	CTH-H	Williams St to STH-120 (Lake Geneva)	0.6	5						Design \$45,000	Construct \$336,000			
	16	CTH-G	STH-120 to Ausitn St.	0.7	5						Design \$52,500	Construct \$392,000	P4★		
	15	CTH-K	S. County Line to USH-14	5.7	6							Design \$199,500	Construct \$2,964,000		
LRIP 2029	17	CTH-B	Linton Road to STH-120	5.3	6							Design \$185,500	Construct \$2,756,000		
	18	CTH-B	CTH-U to Kenosha Co. Line	0.9	5								Design \$31,500	Construct \$468,000	
	19	CTH-N	STH-20 to CTH-J	1.6	8									Design \$56,000	Construct \$832,000
LRIP-S 2029	20	CTH-C	State Line to CTH-B	4.6	7									Design \$161,000	Construct \$2,392,000
LRIP 2031	22	CTH-A	CTH-P (south) to STH-67	6.3	6										Design \$220,500
PROJECTED TOTALS:						\$2,121,500	\$7,717,000	\$4,880,000	\$7,328,500	\$2,321,500	\$3,685,500	\$1,113,000	\$5,751,500	\$685,000	\$3,444,500
ESTIMATED CHI:							-\$222,172		-\$225,000		-\$225,000		-\$225,000		-\$225,000
ESTIMATED CHI-D:							-\$387,252		-\$387,252		-\$387,252		-\$387,252		-\$387,252
Other / CHI-S:								-\$694,506	-\$694,506						
ARPA Funds							P1★ -\$2,808,000								
LOCAL PROGRAM - STP:									-\$2,714,000						
LOCAL REIMBURSEMENT:								-\$1,000,000					-\$392,000 P4★	-\$468,000	
(2022 Dollars) TOTAL w/AID:						\$2,121,500	\$4,299,576	\$3,185,494	\$3,307,742	\$2,321,500	\$2,378,742	\$1,113,000	\$4,747,248	-\$477,506	\$2,832,248
TOTAL w/ 3.5% Annual Inflation:						\$2,121,500	\$4,450,061	\$3,412,381	\$3,667,353	\$2,663,975	\$2,825,199	\$1,368,161	\$6,039,825	-\$628,784	\$3,860,063
(2022-2026) 5-YEAR AVERAGE w/ Inflation:									\$3,263,053.86					\$2,692,892.95	
Shortage									\$563,054					Shortage -\$7,107	

Without ARPA, Federal STP, and Reserve Funding for projects our 10-Year Average Mileage drops and additional 12.9 centerline miles bringing total to **46.5 miles** of improvement or a **45-Year** replacement life-cycle.

ANNUAL TOTALS		
Year	Miles	Bridges
2022	2.6	
2023	9.1	2
2024	4.2	
2025	13.2	
2026	4.0	
2027	6.9	
2028	1.3	
2029	11	
2030	0.9	
2031	6.2	
Total	59.4	P8★

10-YEAR SUMMARY:	
\$39,048,000	
-\$1,122,172	
-\$1,936,260	
-\$2,778,024	
-\$2,808,000	
-\$2,714,000	
-\$1,860,000	
\$25,829,544	
\$29,779,734	

Baseline Highway Calculation Tables				
		Const. \$ / CL-Mile	Design Percentage	Const. Mgt Percentage
County	Reconstruction (Rural)	1,500,000	9.0%	6.0%
County	Reconstruction (Urban)	2,250,000	15.0%	12.0%
County	Reconditioning (RECON)	500,000	7.0%	4.0%
WisDOT	Pavement Replacement (PVPL) WisDOT	500,000	12.0%	15.0%
County	Hot In Place Recycling (HIP)	145,000	5.0%	3.0%
County	Resurfacing (RESUR)	300,000	5.0%	3.0%
Baseline Structure Calculation Tables				
		Const. \$ / SF-Deck	Design Percentage	Const. Mgt Percentage
	Structure Replacement		18.0%	15.0%