

City-Wide Basin	Probable Cost	Public Property Construction Impacts
Maximum Points	15	5
Alternative A	12	1
Alternative B	9	1
Alternative C	15	5
Johnson St Outfall	Probable Cost	Public Property Construction Impacts
Maximum Points	15	5
Alternative 1	12	2
Alternative 1a	9	1
Alternative 2	9	1
Alternative 3	6	1
Alternative 4	12	2
Alternative 5	12	2
Alternative 6 (full)	6	5
North Industrial Park	Probable Cost	Public Property Construction Impacts
Maximum Points	15	5
Alternative 1 - 60in	12	1
Alternative 1 - 72in	9	1
Alternative 3	15	5
Alternative 4 - 36in	12	3
Alternative 4 - 48in	12	2
Alternative 7	9	5
North La Crosse		
Maximum Points	15	5
Alternative 1	15	3
Alternative 2	15	3
Alternative 3	15	4
Alternative 4	9	2
Alternative 5	12	3
Alternative 6 (full)	6	5

Pammel Creek		
Maximum Points	15	5
Alternative 1a	6	1
Alternative 1b	9	1
Alternative 2	9	1
Alternative 3	9	1
Alternative 4	9	1
Alternative 5	9	1
Alternative 6	6	5
Alternative 7	15	4
Pine St		
	Public Property Construction Impacts	Private Property Construction Impacts
Maximum Points	5	5
Alternative 1a	4	4
Alternative 1b	3	4
Alternative 1c	4	4
Alternative 2a	2	4
Alternative 2b	1	4
Alternative 3	2	5
Alternative 4	2	5
Alternative 6 (full)	1	1
Alternative 1a		
Alternative 1b		
Alternative 1c		
Alternative 2a		
Alternative 2b		
Alternative 3		
Alternative 4		
Alternative 6 (full)		

Private Property Construction Impacts	Street Flooding Benefits	
	5	20
	5	12
	4	12
	4	4

Private Property Construction Impacts	Street Flooding Benefits	
	5	20
	5	12
	5	20
	5	20
	5	16
	5	8
	5	12
	1	20

Private Property Construction Impacts	Street Flooding Benefits	
	5	20
	5	12
	4	12
	4	4
	4	4
	4	8
	1	20

	5	20
	5	20
	5	8
	5	12
	5	20
	5	20
	1	20

5 20

5 12

5 12

5 12

5 20

4 20

5 20

1 20

4 4

Street Flooding Benefits

Private Property Flooding Benefits

20 20

8 4

8 4

8 4

20 20

20 20

8 20

12 8

20 20

Private Property Flooding Benefits	Intersection Closure Benefits
20	20
8	16
12	20
0	20

Private Property Flooding Benefits	Intersection Closure Benefits
20	20
20	20
20	20
20	20
20	20
12	12
16	20
20	20

Private Property Flooding Benefits	Intersection Closure Benefits
20	20
8	16
12	20
0	20
8	4
8	12
20	20

20	20
16	16
12	20
16	8
20	20
20	20
20	20

20 20

20 20

20 20

4 20

20 20

20 20

20 20

20 20

16 20

Intersestion Closure Benefits Street Condition (Pacer Rating)

20 10

16 0

20 0

16 8

20 8

20 8

16 4

16 10

20 0

Coordination with other CIP Projects	Sustainability	Total	
	5	10	100
	5	2	61
	5	2	65
	1	2	51

--	--	--	--

Coordination with other CIP Projects	Sustainability	Total	
	5	10	100
	3	2	76
	3	2	80
	3	2	80
	1	2	71
	1	2	54
	3	2	72
	1	10	83

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Coordination with other CIP Projects	Sustainability	Total	
	5	10	100
	5	2	61
	5	2	65
	1	2	51
	1	2	38
	1	2	49
	1	10	86

--	--	--	--

	5	10	100
	3	2	80
	1	2	66
	3	2	75
	1	2	79
	3	2	85
	1	10	83

5	10	100
3	2	69
3	2	72
3	2	56
3	2	80
3	2	79
3	2	80
1	10	83

1	2	66
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Water Main Condition (Pacer Rating)	Sanitary Sewer Condition (Pacer Rating)	Sustainability
5	5	10
0	0	2
0	0	2
0	0	2
4	5	2
5	5	2
5	5	2
5	5	2
0	0	10

Cost Effectiveness
Rating/\$100,000



7.6
4.4

3.4
2.7
5.5
6.9



1.8

7.2
5.2
107.3
6.7
7.7



14.9

7.2
11.8

24

7.8

13



1.6



2.5

4.9

4.1

6.4

4.9

5.2

1.5



12.2

Total

100

38

41

46

85

85

67

65



72

Cost Effectivness



10.91954023

11.20218579

19.49152542

9.330406147

4.654983571

10.06006006

13.85927505

0.280155642

Significantly Affected Intersections

King/10th, Cameron/8th, Cass/15th, Farnam/20th, Green Bay/10th, Travis/West

Cass and 9th

Cass and 9th, king and 10th, Cameron and 8th

Cameron and 8th, King and 10th, Cass and 15th, Farnam and 20th

Cameron and 8th, King and 10th, Cass and 15th

Farnam and 20th

Green Bay and 10th, Travis and West

Oak/Palace, Enterprise/(Oak-City Limits), Cunningham/Hemstock

Oak and Palace

Oak and Palace

Enterprise and Agropur

Enterprise, Oak and Palace

Enterprise, Oak and Palace, Cunningham and Hemstock

George/Stoddard, Camp/Hamilton, Cunningham/Kane, Caledonia/Livingston,
Onlaska/Gohres, Charles/Hayes, Liberty/Island, Charles/Hagar, Monitor/Copeland,
Causeway/Sumner, Buchner/Copeland, West End of Buchner, Milwaukee/(Causeway-
Buchner)

George and Stoddard, Camp and Hamilton

Liberty and Charles

Charles and Hayes

Milwaukee(Buchner-Causeway), W end Buchner, Causeway and Sumner, Buchner and
Copeland

George and Stoddard, Camp and Hamilton

Cass/20, Jackson/19, Green Bay/(East-23), (Weston-East)/(Hyde-21), Garden, Mormon

Cass and 20th S

Cass and 20th S

Farnam and 20th, Jackson and 19th

Hyde and 22nd, Green Bay and East Ave S

Weston and East S, Travis and 20th, Hyde and 20th

Diagonal and Losey, 22nd and Diagonal, 22nd (Garden-Victory), 25th and Hewitt

Mormon Coulee north of Birch, Mormon Coulee and Lakota Court

Front/Pine, Losey/(Vine-Pine), Cass/20th, State/(20th-Losey), 17th/(Main-State)

Front and Pine

Front and Pine

Front and Pine

Losey and Pine, Losey and Vine, Cass and 20th

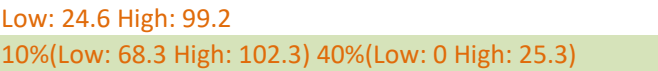
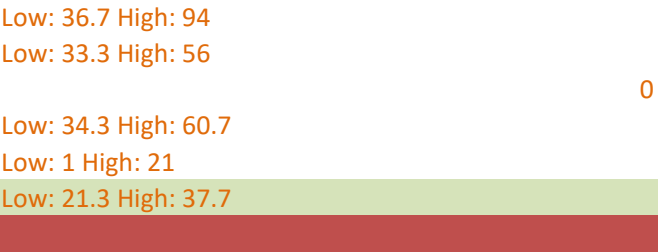
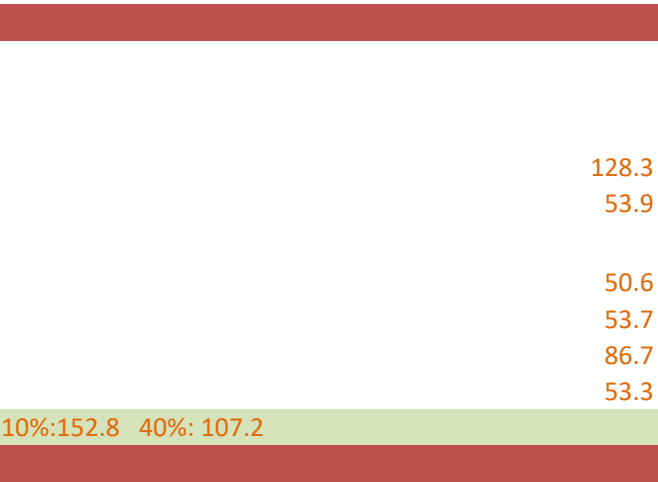
Losey and Pine, Losey and Vine, Cass and 20th

10th and King, 10th and Main

17th and State, 17th and Main

10%: Losey and Vine, Front and Pine 40%: 17th and State, 17th and Main,

Average Minutes of Intersection Closure: 10-100-yr





0

0

0

32.8

65

53

10% : 167.7 40%: 96.1



0.83

16.7

0

18.3

1.33

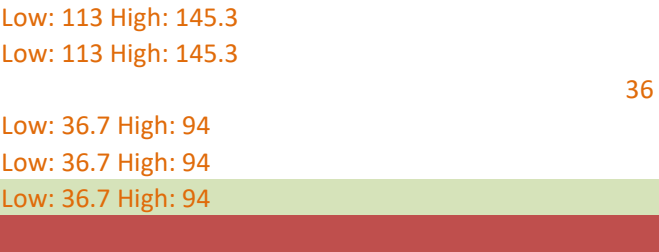
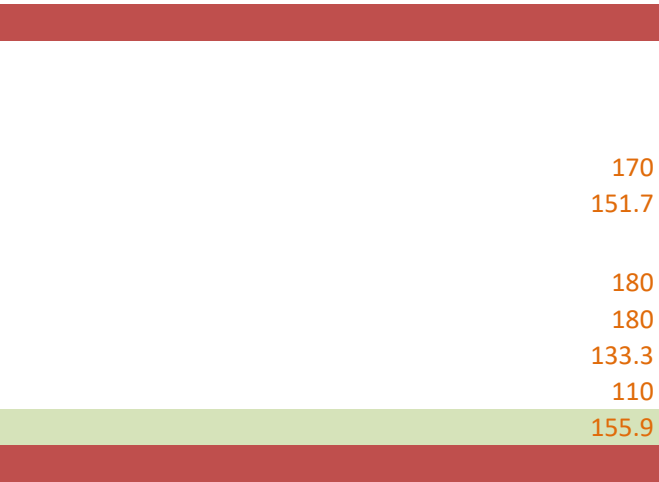
0

20.8

40



Average Minutes: Baseline 10-100 yr





253.3

253.3

119.2

182.8

290

185.8

182.9



90



63.3

63.3

63.3

58.3

58.3

202.5

205



Total Difference

Cost (thousand) Cost/Time Difference

	41.7	993	23.81294964
	97.8	1900	19.42740286
	129.4	2440	18.85625966
	126.3	2930	23.19873317
	46.6	875	18.77682403
	56.7	929	16.38447972
10%: 3.1 40%:48.7	2500-5000		

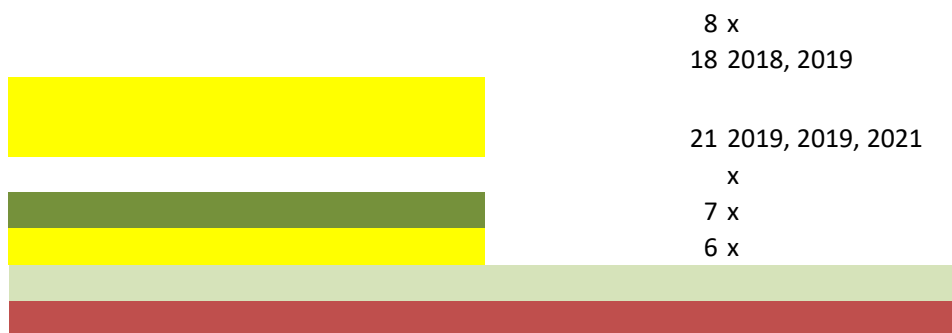
Low: 76.3 High: 51		845	Low: 11.1 High: 16.6
Low: 79.7 High: 89.3		1298	Low: 16.3 High: 14.5
	36	41	1.1
Low: 2.4 High: 33.3		546	Low: 227.5 High: 16.4
Low: 35.7 High: 73		626	Low: 17.5 High: 8.6
Low: 15.4 High: 56.3	-		

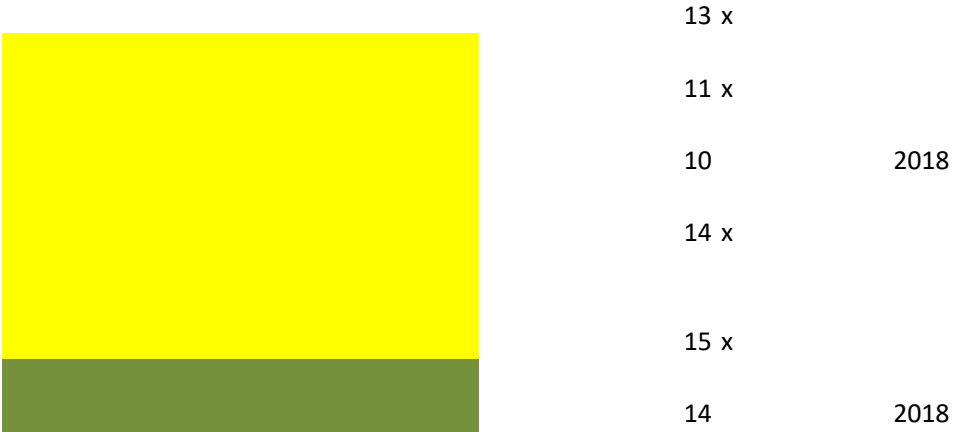
Low: 60.8 High: 60.8		494	Low: 8.13 High: 8.13
	127.9	443	3.46
Low: 21.7 High: 118.3		217	Low: 10 High: 1.83
		1030	
Low: 90.4 High: 46.6		539	Low: 5.96 High: 11.6
10%(Low: 34.3 High: 0.3) 40%(Low: 102.6 High: 108.4)			

	253.3	2270	8.961705488
	253.3	1120	4.421634426
	119.2	1580	13.25503356
	150	1490	9.933333333
	225	1440	6.4
	132.8	1460	10.9939759
10%: 15.2 40%:86.8	-		
	89.17	320	3.588650892

	46.6	348	7.467811159
	63.3	366	5.781990521
	45	236	5.244444444
	56.97	911	15.99087239
	58.3	1826	31.32075472
	181.7	666	3.665382499
	165	469	2.842424242
	62032/25716		

Recommendation	# of blocks	CIP project year
Primary Recommendation		4 2017, 2022, x,2017
Secondary Recommendation		





Block Order	Curb Rating	Pacer rating 3,5,9,3	Private property disturbance?
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Ferry to Cass	G,x,G,G,G,	6,V,6,6,6,	N N
10th to Cass	G,G,P,F,F,G,G,G	6,6,3,5,5,8,8,10	N N
Johnson to Farnam	P,G,F,G,G,G,G	5,7,7,9,9,10,10	N
Green Bay to Cook	G,G,x,x,G,G	4,9,x,x,10,4	N

Kwik Trip to Kramer	G,G	10,2	N
Kwik Trip to Kramer	G,G	10,2	Y
	G		3 N
West to East	x,G,G	10,5,7	N
West to East	x,G,G	10,5,7	N

George, Onalaska, Talor to Camp	G,F,F,G,F	9,5,3,7,4	N
Bridgeview Service to Rose	G,G,G	8,9,4	N
Hayes from Charles to Kane, Moore St to Onalaska	F,F,G,G,F,G,G	5,3,7,5,5,6,9	N
Monitor (West to East,)			
Gould(W to E), Liberty, Cahrles (S to N)	G,G,G,G,F,P,	6,6,6,7,3,6,	N
Buchner to Causeway, East Causeway, Copeland	F,F,G,G,G	3,6,6,7,7	N



	F,G,G,G,G,G,G,G,	3,7,8,8,7,7,10,3,6	
Cass to Farnam	G,G,G,G	,5,5,4,4	N
	G,G,G,G,F,G,G,G,F,	7,7,7,7,6,7,7,7,	
Cass to Main	G,F	4,10	Golf Course
Farnam from 20 to State,		10,9,5,5,5,5,5,4	
Jackson to Farnam at 27th	G,G,F,F,F,F,G,G,G	,4	N
	F,F,F,G,G,F,G,G,G,G,	4,4,4,5,3,7,8,8,6,	
Green Bay to Farnam,22ND	G,G,G,F	5,4,4,4,3	Y
Thompson to Horton, 20th			
from Weston to Hyde, Travis	G,G,F,G,F,G,G,G,G,	6,10,6,6,3,9,9,9,9	
from East to 20th	G,F,F,F,G,G	,9,6,6,5,4,7	Y
	G,G,F,F,F,G,G,G,G,G	3,3,4,4,4,7,10,10,	
21st to Hass, 22nd to Losey	,G,F,F	3,3,3,4,4,	Y

Mormon Coulee to			
Woodbridge	G,G	10,10	Y

Front (S to N)	G,G	4,6	Y
x	x	x	Park
Front (S to N)	G,G	4,6	Y
Vine to 24th	G,G,F,F,G,P	8,8,7,7,7,3	N
20th to 24th, Vine to 24th and	G,G,G,G,G,G,G,F,F,F	7,7,7,7,7,7,7,7,7,	
Pine	,F,F,G,P,G,G	7,7,7,7,3,8,8	N
Pine to King	G,G,G,F	8,9,9,4	N
Main to Vine	G,F,G,G	10,2,7,7	UWL



Notes



See 2017 Project
See 2017 Project

Ferry from 10th to Cass



10 Year Stormwater Project Plan

	Alternate	Cost	# of blocks	CIP project year	Notes	Rank	Streets by Block Order	Curb Rating	Pacer rating
1	pre-study	400,000		2014	DONE	x	Oak Street from Cunningham to Kwik Trip Way		
2	pre-study	605,000		2015	DONE	x	Kwik Trip Way from Oak to Kramer & Kramer from Kwik Trip Way to easement		
3	pre-study	122,000		2016	DONE	x	Bennett St from 16th to Townsend (Phase 3)		
4	N.I.P. Alt 1 - 60in	850,000	1.5	2016	DONE	0	Kwik Trip @ Oak to Kramer, Kramer @ Kwik Trip to 1/2 Rublee	G,G	10,2
5	North Alt 2	443,000	2	2016	DONE	0	Rose @ Palace to Moore	G,G,G	8,9,4
6	Johnson Phase 1 hybrid of 1a and 2	1,590,000	9	2017	DONE	0	Ferry from outfall to 6th; 6th from Ferry to Cass; Cass from 5th to 7th	--	--
7	Johnson Phase 2 hybrid of 1a and 2	220,000	1.5	2018		1	Cass 8th to 9th	F,F,F	5,5,5
8	Pammel Alt 6	800,000	16	2018	Best Approach to Diagonal Rd. Lots of bad roads now	1	GI	P-G	3-4
9	North Alt 1	494,000	5	In Phases 2018/2019/2020	started in 2017 with Camp and WDOT	2	George @ Stoddard to Interchange, Onalaska @ Stoddard to Taylor, Taylor @ Onalaska to Harvey, Harvey @ Taylor to Camp, Camp @ Harvey to Hamilton	G,F,F,G,F	9,5,3,7,4
10	North Alt 5	539,000	5	2019	Re-design with Mobil Oil Expansion /w TIF	2	Causeway @ Sumner to Copeland, Causeway @ Kraft to Milwaukee, Milwaukee @ Causeway to Buchner, Buchner @ Milwaukee to Dead End	F,F,G,G,G	3,6,6,7,7
11	North Alt 2-Phase 2	80,000	1	2019	Finish by upsizing Livingston	1	Livingstone from Caledonia to Rose Court		
12	Johnson Phase 3 hybrid of 1a and 2	700,000	4	2019	Gets us to Mayo and big pipe from north	1	Ferry 6th to 10th; 10th Ferry to King		
13	Pine Alt 1c	236,000	2	2019	raising road for surface drain	1	Front @ Vine to Dead End	G,G	4,6
14	North Alt 1	\$1 to \$2 million	--	2019	cost not calculated	2	Redo Tyler St lift Station		
15	Pine Alt 4	469,000	4	2020	1/2 blk 17th in 2018; most thru campus	3	Main @ 17th Pl to 17th St, 17th St @ Main to State, 16th @ Main to Vine	G,F,G,G	10,2,7,7
16	North Alt 3	217,000	7	2020	Feeders to improve Moore Main (might mean Rose pump add)	4	Hayes @ Liberty to Kane, Moore @ Prospect to Onalaska, Onalaska @ Moore to Gohres	F,F,G,G,F,G,G	5,3,7,5,5,6,9
17	North Alt 4	1,180,000	6	2020		5	Charles @ Hagar to Island, Liberty @ Island to Gould, Gould @ Avon to Dead End, Monitor @ Rose to 1/2 Lang	G,G,G,G,F,P,	6,6,6,7,3,6,
18	Pammel Alt 3	1,490,000	14	2021		4	Green Bay @ East to 22nd, 22nd @ Green Bay to Denton, Denton @ 22nd to Losey, Losey @ Denton to Farnam, Farnam @ Losey to 27th	F,F,F,G,G,F,G,G,G,G,G,G,G,G,G,F	4,4,4,5,3,7,8,8,6,5,4,4,4,3
19	Pammel Alt 4	1,440,000	15	2022		5	Losey @ Thompson to Chase, 21st @ Townsend to Weston, Weston @ 21st to East, East @ Weston to Horton, 20th @ Weston to Hyde, Travis @ East to 20th	G,G,F,G,F,G,G,G,G,G,G,F,F,F,G,G	6,10,6,6,3,9,9,9,9,9,6,6,5,4,7
20	Johnson Alt 5	929,000	6	2023	Find better route. Removing too many pipes that are good	4	Green Bay @ 10th to Sims Pl, Sims Pl @ Green Bay to Wollan, Wollan @ Sims Pl to 7th, 7th @ Wollan to Cook, Cook @ 7th to Steele	G,G,x,x,G,G	4,9,x,x,10,4
21	Johnson Phase 3 hybrid of 1a and 2	1,500,000		2024		5	Ferry from 10th to 15th; 15th from Ferry to Cass		
22	N.I.P. Alt 4 - 48 in	630,000	3	2025	bad idea during high water	5	Cunningham from Larson to Marsh	x,G,G	10,5,7
23	Johnson Alt 4	875,000	7	2025	Find better route. Removing too many pipes that are good	5	Johnson @ 15th to 16th, 16th @ Johnson to Farnam, Farnam @ 16th to 20th	P,G,F,G,G,G,G	5,7,7,9,9,10,10
24	N.I.P. Alt 3	40,000	0	2026	not under road	5		G	3
25	Pine Alt 2a	911,000	6	2026	Move from 24th to Losey and do with Losey	4	Losey @ Vine to Pine, Pine @ Losey to 24th, 24th @ Pine to Dead End (North)	G,G,F,F,G,P	8,8,7,7,7,3
26	Pine Alt 3	666,000	4	2026	wait to do with road resurface need	3	10th @ Pine to King	G,G,G,F	8,9,9,4
27	Pine Alt 2b	1,826,000	16	2027 2018 (2 blks)	Telecom in Cass. Move to Madison or King?	3	Cass @ 20th to 24th, 24th @ Cass to Dead End, Losey @ Vine to Pine, Pine @ Losey to 24th	G,G,G,G,G,G,G,G,F,F,F,F,F,F,G,P,G,G	7,7,7,7,7,7,7,7,7,7,7,7,7,3,8,8
28	Johnson Alt 6			ON-GOING	ALREADY STARTED	do with roads	GI		
29	North Alt 6			ON-GOING		do with roads	GI		
30	Pine Alt 6			ON-GOING	BEST APPROACH- vs Alt 2	do with roads	GI		
31	N.I.P. Alt 7			ON-GOING	ALREADY STARTED	do with roads	GI		