Town Road Redevelopment Plan Concept Introduction & Overview

Town of Boulder Junction 1 December, 2015

Background

- Roads are the Town's most important infrastructure asset
 - Important to residents, seasonal owners and visitors
- Budget makes it impossible to adequately maintain
 - Able to patch / repair for routine wear & tear only
 - Emergent major repairs & heavy industrial use (logging) strain our abilities
- Most common complaint from electors is "roads....."
- Continuing on our current path will not yield better results
 - We need a 'redevelopment' strategy for our roads

Town Road Basics

- 120 Town Roads, approximately 93 miles
 - · Approximately 45, or 26 miles are unpaved, and
 - · Approximately 75, or 67 miles are paved
- Many of our roads have not been resurfaced in >25 years
 - · Approaching, or past their useful life limits
- Type & volume of traffic varies significantly
 - Seasonal, main feeder, logging or other industrial, etc

Life Cycle Basics

- Paved Roads can have a 25-30 year life, depending on various factors
 - Usage: traffic volume, gross weight, weather, material, foundation
 - Maintenance: type, frequency, timing, quality
- Approximate Road 'paving' costs (per mile)
 - Gravel
- \$40,000
- Chip Seal
- \$95,000
- Asphalt
- \$155,000
- Current Town Budget levels do not allow us to maintain or improve the situation if we do nothing it gets worse

Road Redevelopment Plan / Approach

- Address the <u>complete</u> road system in <u>shortest</u> period of time
 - · Accomplish in 24 month period
 - · Re-baseline overall condition
 - · Improve our ability to 'maintain' the roads with traditional budget
- Finance via State Loan or G.O. Bonds
 - 20 year term
- Seek Grants & other cost share for at least 25% of total cost

This approach would set us up for the next 30-40 years if we maintain the roads at a higher level

Draft Concept Highlights

- Work planned on 84 of 120 Town Roads (69% by mileage)
 - Upgrades 16 gravel roads to paved
 - Upgrades 7 paved roads to Asphalt (~14 miles)
- Key Road features to be Re-Engineered/Improved (TBD)
 - Culverts, shoulders, turn arounds, signage, visibility, etc.
- Adds 'Bike Lanes' creating local 'Loops' (where possible)
 - Airport Loop: Dairyman's, Airport
 - White Deer Loop: High-Fishtrap, High, Allen
 - Old K Loop: Old K
 - Marsh Road Bypass: Marsh
 - · North Creek Loop: North Creek

Redevelopment Plan Preliminary Estimate

These are preliminary estimates for planning and consideration

Road Surface Work

\$6,393,400

Road Improvements

\$ 350,000

Engineering Work

\$ 250,000

Legal Work

\$ 100,000

Sub-Total

\$ 7,093,400

• Grants / Cost Share

\$-1,775,000 (~25%)

Total Estimate Cost

\$5,318,400

Financing Plan

- Option 1
 - State Trust Fund Loan
 - Slightly Higher Finance Cost
 - Higher Potential Tax impact
 - · Slightly less complicated

Town of Boulder Junction WI

ESTIMATED TAX IMPACT OF 20 YR. State Trust Fund Loan

Schedule 1

Rates	STATE TO Da Cum	67,000,000 RUST FUND I ted 4/1/2016 ent STF Rates lect to change		TID-Out Equalized Value	Tax Rate for G.O. Debt Rate per \$1,000 of Equalized Value		
YEAR	15-Mar PRINC	Current Rate	15-Mar INT	PRINC & INT	2015@ Acutal then 1% Adjustment		YEAR
2016					476,887,900	0.00	2016
2017	252,710	3.75%	250,274	502,984	481,656,779	1,04	2017
2018	249,960	3.75%	253,023	502,984	486,473,347	1.03	2018
2019	259,334	3.75%	243,650	502,984	491,338,080	1.02	2019
2020	268,418	3.75%	234,566	502,984	496,251,461	1.01	2020
2021	279,124	3.75%	223,859	502,984	501,213,976	1.00	2021
2022	289,591	3.75%	213,392	502,984	506,226,115	0.99	2022
2023	300,451	3.75%	202,532	502,984	511,288,377	0.98	2023
2024	311,194	3.75%	191,789	502,984	518,401,260	0.97	2024
2025	323,388	3.75%	179,598	502,984	521,565,273	0.96	2025
2026	335,515	3.75%	167,469	502,984	526,780,926	0.95	2026
2027	348,097	3.75%	154,887	502,984	532,048,735	0.95	2027
2028	360,762	3.75%	142,222	502,984	537,369,222	0.94	2028
2029	374,679	3.75%	128,305	502,984	542,742,915	0.93	2029
2030	388,729	3.75%	114,254	502,984	548,170,344	0.92	2030
2031	403,307	3.75%	99,677	502,984	553,652,047	0.91	2031
2032	418,199	3.75%	84,784	502,984	559,188,568	0.90	2032
2033	434,113	3.75%	68,870	502,984	564,780,463	0.89	2033
2034	450,392	3.75%	52,591	502,984	570,428,258	88.0	2034
2035	467,282	3.75%	35,701	502,984	576,132,540	0.87	2035
2036	484,755	3.75%	18,228	502,984	581,893,866	0.86	2036
1	7.000.000	-	3.059.670	10.059.670			

Financing Plan (cont'd)

- Option 2
 - · General Obligation Bond Issue
 - Lower potential Finance Cost
 - · Lower Potential Tax impact
 - · Slightly more complicated
 - · Higher Admin Cost?
- Bond Special Rules
 - >\$7m, use within 24 months
 - <\$5m, use with 36 months</p>
 - To be explored more

Town of Boulder Junction, WI	Schedule 2
ESTIMATED TAX IMPACT OF 20 YR. G.O. REFUNDING BONDS	

Rates		O REFUNDIN Dated 4/1// ted sale plus 2 Subject to of	2018 25 basis poin	Equalized Value	for G.O. Debt Rate per \$1,000 of Equalized Value		
	1-Apr	Current 4	11 and 10/1	PRINC	2015@ Acutal		
YEAR	PRINC	Rate	INT	& INT	then 1% Adjustment		YEAR
2016			89,625	89.625			22000
2017	285.000	1.10%	177,683	462,683		0.19	2016
2018	290,000	1.40%	174,085	464.085		0.96	2017
2019	295,000	1.60%	169,695	464,695		0.95	2018
2020	300,000	1.60%	164,935	464,935		0.95	2019
2021	300,000	1.60%	180,135	460,135		0.94	2020
2022	305,000	2.10%	154,533	459.533		0.92	2021
2023	315.000	2.10%	148,023	463.023		0.91	2022
2024	320,000	2.10%	141,355	461,355	511,288,377 516,401,260	0.91	2023
2025	325.000	2.50%	133,933	458,933	521,585,273	0.89	2024
2026	335,000	2.50%	125.683	480.683	526,780,928		2025
2027	345.000	2.50%	117,183	482.183		0.87	2026
2028	350,000	2.90%	107,795	457,795		0.87	2027
2029	365,000	2.90%	97,428	482.428	542,742,915	0.85	2028
2030	375,000	2.90%	86.698	461,698	548,170,344	0.83	2029
2031	385,000	3.10%	75.293	480,293	553,652,047	0.84	2030
2032	395,000	3.10%	63,203	458.203	559,188,568	0.83	2031
2033	410,000	3,10%	50,725	460,725	564,780,453	0.82	2032
2034	420,000	3,40%	37,230	457.230	570,428,258	0.80	2033
2035	435,000	3.40%	22,695	457.695	576,132,540	0.79	2035
2036	450,000	3.40%	7,650	457,650	581,893,866	0.79	2036
1	7,000,000		2.305.580	9 305 580			

Going Forward Plan / Schedule

· Approval to Proceed

• Finalize Analysis & Plan

Electors Review of Plan

Competitive Bidding process

Contract Award

• Road Redevelopment Work

• Phase 1 AUG-OCT 2016

• Phase 2 JUN-OCT 2017

• Phase 3 JUN-AUG 2018

DEC 2105

DEC-FEB 2016

FEB 2016

MAR-APR 2016

MAY 2016

2016-2018

Summary

- Town Board is asking for advisory vote/direction from electors with regard to the Road Redevelopment Plan concept
 - There is a lot of work that remains to be done, and we will not devote our resources to the project if is not a viable concept
- Preliminary Road Analysis (plan) follows
 - Complete Microsoft Excel File and Powerpoint Summary Briefing will be on Town Website
 - This is a working copy and represents our planning efforts to-date, it is not the final plan
 - It does reasonably reflect the magnitude of the proposal and challenge

Preliminary Plan - Reading Key

1 of 5

- Color Key
 - Each color is tied to type of road work planned
 - Equates to prelim cost estimate



Preliminary Plan 2 of 5

- Alpha Sort
- Use key for cost plan

	PLAN		SI	JRFACE TY	/PE	RESURFACE PLAN				Estimated	
TYPE	CAT	ROAD NAME	Gravel Chip		Asphalt	Gravel	Chip	Asphalt	-	RESURFACE COS	
TR	1	Ada Street		0.25		Section 1	0.00	•	5	-	
TR	4	Airport Road	1.00		1.45	0.00	1.00	0.00	Ś	60,000.00	
TR	3	Allen Road		0.68			0.00	0.68	Ś	158,100.00	
TR	2	Allequash Lake Road		0.94			0.94	100	\$	89,300.00	
TR	2	Annes Place		0.14			0.14		\$	13,300.00	
TR	2	Arrowhead Drive	0.15	0.45			0.60		\$	51,750.00	
TR	2	Bakken Road (East)		1.07			1.07		\$	101,650.00	
TR	1	Bakken Road (West)		2.15			0.00		\$	101,030.00	
TR	4	Balsam Lane	0.35				0.35		\$	21,000.00	
TR	5	Bass Lake Road	0.41	-		0.41	0.00		\$	15,400.00	
TR	1	Bear Lake Road		1.0000000000000000000000000000000000000	3.26			0.00	\$	10,400.00	
TR	1	Ben Bendrick Drive (Lake Shore Drive)			1.70			0.00	\$	-	
TR	4	Big Muskellunge Road	1.20	1.00	0.50		2.20	0.00	\$	167,000.00	
TR	6	Birch Drive	0.25		0.50	0.00	220		\$	107,000.00	
TR	5	Birch Point Lane	0.19			0.19			\$	7,600.00	
TR	1	Birchwood Lane		0.36		0.125	0.00		\$		
TR	1	Blaisdell Street		0.17			0.00		\$		
TR	4	Blue Heron Lane	0.12				0.12		\$	7 200 00	
TR	1	Blueberry Lane		0.25			0.00		\$	7,200.00	
TR	5	Boat Landing Road (Island lake)	0.50	0.20		0.50	0.00		\$	-	
TR	2	Boulder Lane	0.50	0.40		0.30	0.40		\$	20,000.00	
TR	4	Camp Manitowish Lane (East)	0.50	0.40			0.40		\$	38,000.00	
TR	1	Camp Manitowish Lane (West)	0.00	0.50			0.00	-	\$	30,000.00	
TR	2	Campo Fiesta Lane		0.13			0.13		\$	40.000.00	
TR	2	Cattail Cove Lane		0.75			0.13		\$	12,350.00	
TR	1	Cemetary Road		0.18		-	0.00		\$	71,250.00	
TR	1	Center Street		0.31			0.00				
TR	2	Charlotte Place Lane		0.25		-	0.00		\$		
TR	2	Church Street		0.14	J. 18875					23,750.00	
TR	-	Clear View Drive	0.34	0.14		0.00	0.14		\$	13,300.00	
TR	Andrew Street	Community Street	0.34	0.20		0.00	0.00		\$		
TR		Concora Road		0.20			0.00		\$		
TR	-	Dairymens Road		1.55		enter et	0.80		\$	76,000.00	
MATERIA .	ALL PROPERTY.	Dan ymens noau	L	4.55				1.55	\$	360,375.00	

Preliminary Plan 3 of 5

- Alpha Sort
- Use key for cost plan

	PLAN		St	SURFACE TYPE				RESURFACE PLAN			
TYPE	CAT 5	ROAD NAME	ROAD NAME Gravel	Chip	Asphalt	Gravel	Chip	Asphalt	RESURFACE COST		
TR		Dam Road 0.80			0.80			\$ 32,000.00			
TR	1	Day Lake Landing Road	0.22			0.00			\$ -		
TR	5	Day Lake Road	2.91			2.91			\$ 58,200.00		
TR	2	Dolittle Road		0.15		Manufacture Column	0.15		\$ 14,250.00		
TR	2	East Fitzgerald Lane		0.11			0.11		\$ 10,450.00		
TR	4	En-Dah Win Lane	0.15				0.10		\$ 6,000,00		
TR	2	Evergreen Lane		1.98		Trace I	1.98		5 188,100.00		
TR	3	Fallon Road		2.08				2.08	\$ 322,400.00		
TR		Fishtrap Lake Road		2:04			0.64	1.40	\$ 255,400.00		
TR	2	Fitzgerald Lane		0.20	11 -247		0.20		\$ 19,000.00		
TR	2	Glen Lake Road		0.25			0.25	1	\$ 23,750.00		
TR	1	Good Life Lane			0.44			0.00	\$ -		
TR	3	Grahl Lane	0.43				0.43		\$ 25,800.00		
TR	2	Green Street		0.27			0.27	10-100	\$ 25,650.00		
TR	5	Halverson Lane	0.12			0.12			\$ 4,800.00		
TR	2	Harmony Point Lane		0.60	-		0.60		\$ 57,000.00		
TR	2	High Lake Road			3.80		1.10	0.70	\$ 267,250.00		
TR	2	High Pines Lane		1.10			1.10		\$ 104,500.00		
TR	2	High-Fishtrap Lake Road			1.10			1.10	\$ 255,750.00		
TR	3	Highland Drive		0.28			-	0.28	\$ 43,400.00		
TR	2	Island Lake Road		1.28			1.28		\$ 121,600.00		
TR	6	Jag Lake Road	0.08			0.00			\$ -		
TR	1	Kassien Lane		0.54			0.00		\$ -		
TR	2	Keego Road		1.25			1.25		\$ 118,750.00		
TR	6	Keego Road East	1.31			0.00			\$ -		
TR	2	Kern Lane		1.10		0.00	1.10		\$ 104,500.00		
TR	2	La Fave Road		1.24			0.25		\$ 23,750.00		
TR	4	Little Crooked Lane	0.38				0.38		\$ 22,800.00		
TR	2	Little Rice Lane		0.28			0.28		\$ 26,600.00		
TR	2	Lucas Lane		0.15	-		0.15		\$ 14,250.00		
TR	2	Major Road		0.50			0.50		\$ 47,500.00		
TR	2	Mann Lake Road		0.75			0.65		\$ 61,750.00		
TR	5	Maple Lake Road	0.35			0.35	0.00		\$ 14,000.00		

Preliminary Plan

- Alpha Sort
- Use key for cost plan

	PLAN		St	JRFACE TY	PE	RESURFACE PLAN				Estimated	
TYPE	CAT	ROAD NAME	Gravel Chip		Asphalt	Gravel	Chip	Asphalt	RESURFACE COS		
TR	4	Marsh Road	1.04				1.04		Ś	62,400.0	
TR	2	Middle Gresham Lane		0.43			0.43		\$	40,850.0	
TR	5	Nebish lake Road	1.97			1.97			\$	78,800.0	
TR	3	Newcomb Lane		3,50				3.50	\$	542,500.0	
TR	1	Nichols Lake Lane		0.63			0.00		\$	- 12,500.0	
TR	5	Nixon Lake Road	2.60			2.60			\$	104,000.0	
TR	3	North Creek Road		4.57	N CONTR			4.57	Ś	708,350.0	
TR	5	North Oswego Lake Road	0.24			0.24			\$	9,600.0	
TR	1	North Town Line Rd (Town Road 116)		1.00			0.00		\$	5,000.0	
TR	0	Old 51 East Hoffman Road					0.00		7		
TR	0	Old 51 Old H				100.00	7.52511				
TR	5	Old 51 Road (Bakken Rd - Island Lake Rd)	1.80			1.80			\$	72,000.0	
TR	1	Old 51 Road (Town Line - Island Lake Rd)		1.07			0.00		\$	72,000.0	
TR	6	Old Flambeau Road	0.74	-		0.00	0.00		\$		
TR	2	Old K Road		2.79		0.00	2.79		\$	397,575.0	
TR	1	Oswego-Fishtrap Lake Road		1.90			0.00		\$	397,373.0	
TR	4	Partridge Lane	1.10			2027	1.10		Ś	66,000.0	
TR	4	Perch Lane	0.23				0.23		\$	13,800.0	
TR	2	Pine Lane		0.45			0.45		\$	42,750.0	
TR	5	Pine Shores Lane	0.06			0.06	0.40		\$	2,400.0	
TR	4	Pinewood Lane	0.12			0.00	0.12		\$	7,200.00	
TR	4	Platinum Lane	0.23	110000			0.12		\$	13,800.00	
TR	6	Point Lane	0.25			0.00	0.25		\$	13,800.00	
TR	2	Red Fox Lane	Charles and the	0.09		0.00	0.09		\$	8,550.00	
TR	2	Reible Court		0.12			0.12		\$	11,400.00	
TR	5	Ridge Lane	0.30	0.90		0.30	0.00		\$	12,000.00	
TR	2	Rintlemen	0.00	0.60		0.30	0.60		\$	57,000.00	
TR	6	Riverlane	0.20	0.00	-	0.00	0.00		\$	57,000.00	
TR	1	Rocky Reef Lane	0.20	0.54		0.00	0.00		\$		
TR	1	Round Lake Road		0.10	-		0.00		\$	-	
TR	1	Round Lake Road (Presque Isle)		1.25	-		0.00		\$		
TR	2	Rudolph Lake Lane		0.60			0.60		\$	F7 000 00	
TR	6	Rudolph Lake Lane (South)	0.26	0,00		0.00	0.00		\$	57,000.00	

Preliminary Plan 5 of 5

- Still some work to be done
 - Old records have old road names
 - Sorting duplications
- Minimal impact due to remaining work

	PLAN		SI	JRFACE TY	PE	RESURFACE PLAN				Estimated	
TYPE	CAT	ROAD NAME	Gravel	Chip	Asphalt	Gravel	Chip	Asphalt	RESURFACE COST		
TR	1	Rustic Colony Lane		0.27			0.00		\$	-	
TR	1	Senior Drive		0.20	- I for the		0.00		\$	-	
TR	2	Shamrock Lane		0.40			0.40		\$	38,000.00	
TR	2	Sherry Drive		0.05			0.05		S	4,750.00	
TR	2	Shore Drive		1.03		ALTERNATION TO	1.03		\$	97,850.00	
TR		South Rudolph Lake Lane									
TR	4	South Shore Bay Lane	0.15	aconomic services			0.15		\$	9,000.00	
TR	1	South Town Line		1.36			0.00		\$	-	
TR	2	Spruce Drive		0.22			0.22		\$	20,900.00	
TR	2	Stiloski Lane		0.37		ō .	0.37		\$	35,150.00	
TR	6	Street Lake Lane	0.65			0.00			\$	-	
TR	4	Sunset Lane	0.30				0.30		\$	18,000.00	
TR	1	Town Hall Road			0.12			0.00	\$	20,000.00	
TR		Town Road 119				į.			-		
TR		Town Road 127	489								
TR		Town Road 133	X								
TR	2	Trout Lane		0.20			0.20		\$	19,000.00	
TR	6	Vandercook Road	0.08			0.00	0,20		\$	15,000.00	
TR	5	West Big Lake Road	1.04			1.04			\$	41,600.00	
TR	5	White Birch Lane	0.45			0.45			\$	18,000.00	
TR	4	White Deer Lane	0.12				0.12		\$	7,200.00	
TR	2	Whitney Lake Road	0.10	0.90			1.00		\$	91,500.00	
TR	2	Wool Lake Lane		0.76			0.76		\$	72,200.00	
		L	25.79	55.17	12.37	13.74	34.61	15.86	\$	6,393,400.00	
			Town Roa	d Mileage	93.33	Gravel	Chip	Asphalt	•	-,, 100100	
				-	99.7%			68.6%	n	ent of Town R	