

UTILITY COMMITTEE MEETING AGENDA

September 05, 2023 at 5:45 PM

Kronenwetter Municipal Center - 1582 Kronenwetter Drive Board Room (Lower Level)

1. CALL MEETING TO ORDER

- A. Pledge of Allegiance
- B. Roll Call

2. PUBLIC COMMENT

Please be advised per State Statute Section 19.84(2), information will be received from the public. It is the policy of this Village that Public Comment will take no longer than 15 minutes with a three-minute time period, per person, with time extension per the Chief Presiding Officer's discretion. Be further advised that there may be limited discussion on the information received, however, no action will be taken under public comments.

- 3. APPROVAL OF MINUTES
 - C. Approval of 08-01-2023 minutes
- 4. REPORTS AND DISCUSSIONS
- 5. OLD BUSINESS
- 6. **NEW BUSINESS**
 - D. Discussion & Possible Action: Lift Station update from RPS
 - E. Discussion & Possible Action: Sewer & Water Project List
 - F. Discussion: Water Meter Change Out
 - **G.** Discussion of Facility Tour
- 7. NEXT MEETING:
- 8. CONSIDERATION OF ITEMS FOR FUTURE AGENDA
- ADJOURNMENT



REVISED UTILITY COMMITTEE MEETING MINUTES

August 01, 2023 at 5:45 PM

Kronenwetter Municipal Center - 1582 Kronenwetter Drive Board Room (Lower Level)

1. CALL MEETING TO ORDER @ 5:46pm

- A. Pledge of Allegiance
- B. Roll Call

PRESENT

Craig Mortensen (via telephone)

Vice-Chair Jim Buck

Sean Dumais

Chair Alex Vedvik

2. PUBLIC COMMENT – No Public Comment

3. OLD BUSINESS

C. Discussion/Possible Action: Water/Sewer Rate Study - Phase 1 - presented by Ehlers Sewer rates increase tentatively scheduled at the end of the 4th quarter of 2023. Water increases tentatively scheduled for beginning of 2025. Motion to send the presented 8% sewer increase to the board at the August 14th, 2023, meeting.

Motion made by Chair Vedvik, Seconded by Dumais.

Voting Yea: Vice-Chair Buck, Dumais, Chair Vedvik

Voting Abstaining: Mortensen

- D. Discussion/Possible Action: Lift Station and Sewer Capacity Study Project presented by RPS
- E. Discussion: Update on the Water Filtration Project presented by Becher Hoppe

4. REPORTS AND DISCUSSIONS

F. Update of SCADA System Replacement

Motion to send quote to Village Board for approval.

Motion made by Dumais, Seconded by Vice-Chair Buck.

Voting Yea: Vice-Chair Buck, Dumais, Chair Vedvik

5. APPROVAL OF MINUTES

G. Approval of July 6, 2023 Minutes

Motion made by Vice-Chair Buck, Seconded by Dumais.

Voting Yea: Vice-Chair Buck, Dumais, Chair Vedvik

6. CONSIDERATION OF ITEMS FOR FUTURE AGENDA

- 1. Budget
- 2. Tour of Water and Sewer Buildings.
- 7. NEXT MEETING: September 5, 2023

Section 3, ItemC.

8. ADJOURNMENT @ 7:53pm

Motion made by Vice-Chair Buck, Seconded by Dumais. Voting Yea: Vice-Chair Buck, Dumais, Chair Vedvik



Robert J. Roth, P.E., President

315 DeWitt Street, Portage, WI 53901

(608) 697-5857

▼ robert@rpsprofessionalsolutions.com

psprofessionalsolutions.com

SUPPLEMENTARY PROJECT MEMO TID#2

Date: September 1, 2023

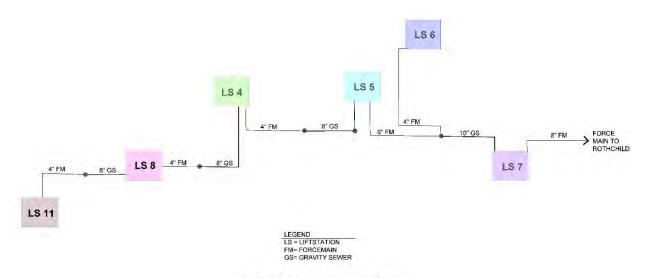
To: Village of Kronenwetter

Re: Lift Station #8 and Related Service Area is it Relates to TID #2

Lift Station, Force main & Electric Service Upgrades

This memo is intended to provide a high-level planning document for decision making and budget estimate purposes for a specific portion of the Village's wastewater collection system. The memo is the product of focused efforts in evaluation of Lift Station #8 and connected basins lying within TID #2 (hereinafter TID2).

The connected basin along old highway "51" and I-39 (hereinafter westside collection system) is tied together within a linked lift station system starting at lift station #11 (LS11) and continuing to LS8, LS4 and LS5. The entire leg of the area served by TID2 eventually flows to LS7, which is a main lift station that is metered and discharges to the Village of Rothschild and Rib Mountain Metropolitan Sewerage District. A graphic flow diagram of the westside collection system is provided below:



WESTSIDE LIFTSTATION SCHEMATIC

The make-up of the westside collection system requires that, currently, Lift Station #8 (hereinafter LS8) flows through two (2) other lift stations on its way to the main LS7. LS8 resides within TID2 and LS4Therefore, if in analysis of LS8 there are improvements required in other stations, it is possible there are improvements within the 1.5-mile area boundary of TID2 and potentially eligible as a tax incremental district expense pending inclusion within the TID2 Plan.

This supplementary break-out study focused on such improvements and evaluated short-term and long-term considerations with the westside collection system, particularly LS4 & LS5, as they pertain to TID2.

EVALUATION CRITERIA

Under the main LS Assessment and Sewer Capacity study the following general lift station criteria were evaluated:

Site & Structural	Operational	Current Service	Collector Service	Future Service (Within 208 area)
Flood Issues, General Access, Safety	Power & Electrical	Existing Service Area	Flow from Other Lift Stations	Future Service Area, 5-10 Years ²
Condition of Wet well	Functionality, Controls, Communications	Infiltration & Inflow (I&I)	Reduction, Peaking, I&I, Run Times	Future Service Area, 10+ Years ²
Condition of Valve Vault	Pump Configuration	Reduction & Peaking Factors	Likelihood of Collector Upsizing	Lift Station Sizing
Metal Material Condition	Valve & Force main Configuration	Basic Sizing	Modeling of Interceptors	Modeling of Interceptors
Panel Condition	Serviceability	Pump Run Times	Modeling of Collector Lift Stations Together	Modeling of Collector Lift Stations Together
Gas Issues	Back-up Power	Pump Sizing	Force main Configuration	Force main Configuration

Each lift station was evaluated with these general criteria. Cost estimates were prepared for necessary repairs or upgrades where significant deficiencies are identified. Due to high variability in project items, a 15% contingency was utilized. The full landscape of improvement options were considered, leaving several alternatives for consideration.

For more detail regarding the full evaluation of each lift station, see the Lift Station Assessment and Sewer Capacity Study, September 2023.



ROTH PROFESSIONAL SOLUTIONS



SUMMARY EVALUATION OF LS8

In our review LS8 summarizes the following issues:

- Electrical issues (random phase fails, shorts, overheats)
- Lack of full 3-phase power
- No back-up power supply
- Undersized lift station capacity
- Undersized force main
- Pump performance issues
- Long run times
- Reduced pump off periods

Currently, LS8 is fed primarily with flows from LS11. LS8 is sized approximately the same as LS11 in terms of wet well size, force main discharge, and pump capacity. LS11 is fed primarily by apartments with some single family residential and commercial. The basin for LS11 lies adjacent to Mosinee corporate boundary and is built-out to about 80-85%, whereby the basin for LS8 is approximately 25% built-out and includes the entire TID2 area as well as additional areas within the 208-sewer service area.

With the potential for additional service area likely in the development of TID2, and the issues already present in LS8, an evaluation of possible upgrades to LS8 was completed. Since LS8 flows to LS4-LS5-LS7, other stations require review so the full cost of improvements can be reviewed. Several alternatives have been identified (see below Cost Summary Analysis). As mentioned above, a true evaluation calls for a life cycle cost analysis for each alternative.

SUMMARY EVALUATION OF LS4

As noted above, LS4 receives wastewater from LS8. The station was retrofitted in 2020. It lies within 0.5-miles of the TID2 boundary. In review of LS4, we determined there are some limitations to the current station setup to receive future expansion flows from LS8. Specifically with its existing 4-inch forcemain that would be a restriction for the current pumping conditions where future flows are added. There is some potential for future flow within the basin of LS4, approximately 185 acres within the 208 sewer service area. This flow is anticipated to occur out into the planning period at least 10-years and more likely to about 20-years.

Costs for LS4 in connection with LS8 improvements are provided above. The basis for those costs is included below:

COST SUMMARY LS4 UPGRADE

Item	Quantity	Units	Budget Cost
Replacement pumps, valves, vault	1 LS	\$120,000	\$120,000
Electrical service – 277/480	1 LS	\$50,000	\$50,000
Controls upgrade	1 LS	\$30,000	\$30,000
Pipe burst 4" to 6" FM	3,210 LF	\$70/LF	\$224,700
Restorations*	1 LS	\$15,000	\$15,000
		Subt	otal \$439,700
Ancillaries	10%		\$43,970
Planning, Engineering, Surveying, Legal	10%		\$43,970
Contingencies	15%		\$65,955
	Cotal Estimated 1	S4 Ungrade (Cost \$594 000

^{*} Road Rehabilitation is not required in this option; therefore, it is not included.

ROTH PROFESSIONAL SOLUTIONS

Professional Consulting. Practical Solutions.



Costs presented for the LS4 upgrade are not necessarily required at the present time. However, as LS8 expands to receive TID2 development and lands within the remaining 208 area (including its own basin 20-year flows), LS4 will be required to upgrade its 4" forcemain and upsize the pumping and valving. For the purpose of our analysis, we assumed 10-years.

SUMMARY EVALUATION OF LS5

LS5 receives flow from LS4. There have been little to no upgrades to the station since its initial build in 1999, including original pumps operating at the present time. LS5 is outside the TID2 improvement area. It is sensitive to increased flow, but on a lesser degree than LS4. Where there are increased flows from LS4, the existing forcemain will need to be increased from 8" to 10" along Old Highway 51. Similar to LS4, LS5 will require a forcemain and pump upgrade when the increased development occurs for TID2, as well as the areas remaining within the 208 sewer service area. With the increase in future flows, existing 6" force main will need to be upgraded to an 8-inch force main and an interceptor from receiving point to LS7 on Gate of Heaven Drive would need to be constructed to handle the increased flow. At that future time, the pumps would be upgraded, the electrical service improved to 277/480V, and valving/piping will be reconfigured. Because LS5 is outside the TID2 area, it was not included in any present value cost analysis herein. However, a high-level cost estimate is provided for reference:

COST SUMMARY FOR LS5

Item	Quantity	Units	Budget Cost
Pipe burst 6" to 8"	4,770 LF	\$81/LF	\$333,900
Upgrade pumps & controls	1 LS	\$75,000	\$75,000
Electrical service	1 LS	\$40,000	\$40,000
Piping & Valves	1 LS	\$50,000	\$50,000
Increase 8" gravity 10" interceptor	2,960 LF	\$70/LF	207,200
Restorations*	1 LS	\$35,000	\$35,000
		Subt	otal \$533,900
Ancillaries	10%		\$53,390
Planning, Engineering, Surveying, Legal	10%		\$53,390
Contingencies	15%		\$80,085
	Tot	al Estimated (Cost \$721,000

^{*} Road Rehabilitation is not required in this option; cost not included.

SUMMARY EVALUATION OF LS6

LS6 takes primarily residential flows within its basin and discharges directly to LS7. Since LS6 is outside TID2 and is also outside of the 0.5-mile project boundary limit, it is not further evaluated in this supplementary memo except for total flow capacity for LS7. Similar to LS11, LS6 is well-developed with limited developable area remaining except by addition of small diameter low pressure force main systems possibly along the Wisconsin River waterway and nearby areas for a total of approximately 10 acres. Such flow would not impact LS6 or LS7 in our review. Further recommendations for LS6 will be addressed in the main Lift Station Assessment and Sewer Capacity Study.

SUMMARY EVALUATION OF LS7

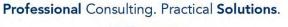
LS7 receives flow from the entire westside collection system (LS11+LS8+LS4+LS5+LS6) and its own basin. As any development occurs in the TID2, LS7 may require upgrades. However, this may occur later in the planning period to allow for such development to occur. LS7 is outside of the TID2 boundary and 0.5-mile expenditure limit. Further recommendations for LS7 will be addressed in the main *Lift Station Assessment and Sewer Capacity Study, September 2023*. ROTH PROFESSIONAL SOLUTIONS

SUMMARY OF ALTERNATIVES

This memo is intended to outline a general framework for a particular alternative and then put budgetary numbers to those possible alternatives. Since lift stations incur expense to the sewer utility perennially, in the form of operation and maintenance expense, life cycle cost analysis method was utilized to develop present worth costs on each alternative on an apples-to-apples basis. Because almost all of the lift stations include a concrete wetwell & valve vault with a relatively long service life, 50-years are estimated for each lift station to be in service. Pumps & valves were assumed to have a 20-year replacement life, but on a lesser interest rate schedule as a derivative of inflation.

The ultimate selected alternative will involve further input, factor all topographical and property considerations, and follow a design process that allows for further refinement/evaluation of potential options. Alternatives are generally described as follows:

- A. Refurbish LS8. Use existing wet well and valve vault. Replace valves, controls, install one new pump (keep one that was installed in May 2023), upgrade electrical service. Increase force main from 4" to 6" by pipe burst method. Replace existing air release valve about 300 ft north of Beranek Road. This option requires a replacement cost at roughly the 10-year annum to address future capacity.
- B. Replace station, new electrical service, and controls. Pipe burst 4" FM to 6" FM to existing discharge point, and air release valve replacement. This option requires an upgrade cost for larger pumps at the 10-year annum to address future capacity, and for a future 10-year annum upgrade on LS4 including an upsizing of the force main of LS4.
- C. This is essentially Alternate B with the modification that LS4 costs (including the forcemain upsizing) would be completed with TID2 expenditures at the present time. That would make all costs capital costs for this alternative, except for the long-term lift station operation and maintenance.
- D. Lift Station Elimination. These options consider the possibility of eliminating either LS8 or LS4:
 - D1. Eliminate LS4. New gravity line from LS4 to TID2, TID 2 new gravity line as part of TID2 costs, bore across I-39, deepen LS8 and extend forcemain to LS5 basin, with a portion being pipe-burst from LS4 to LS5. Abandon LS4 & remaining unused forcemain.
 - D2. Eliminate LS8. Station 4 would be redesigned and deepened approximately 13 feet. New 12" gravity interceptor from LS8 to Beranek Road (LS11 to remain), bore across I-39, relay gravity line on Flanner to Old 51 as part of TID2 work, relay gravity line to LS4. Abandon LS8 & force main.





ROTH PROFESSIONAL SOLUTIONS

BUDGETARY COSTS ANALYSIS

Budgetary estimates are provided as follows for alternatives described above:

A. REFURBISH LS8, 6" FORCEMAIN - ALTERNATE A

Item	Quantity	Units	Budget Cost	
Upgrade, pumps, valves, vault	1 LS		\$75,000	
Electrical service – 277/480	1 LS		\$64,000	
Controls upgrade	1 LS		\$30,000	
Pipe burst 4" to 6" FM	3,500 LF	\$77/LF	\$270,000	
Restorations*	1 LS		\$20,000	
		Subto	otal \$459,000	
Ancillaries	10%		\$45,000	
Planning, Engineering, Surveying, Legal	15%		\$69,000	
Contingencies	15%		\$69,000	
Total Estimat	ed Alternati	ve Cost (Present Wo	orth) \$642,000	
Interest Rate for Present Value	5%			
Life Cycle	50	Years		
Annual Cost per Lift Station (LS4 & LS8)	2 LS	\$26,350/Ea./Year		
	Present Va	lue of Annual Expe	enses \$962,000	
LS8 Capacity Upgrade @ 10-Year Annum, 2.5%	1 LS	\$400,000		
LS4 Capacity Upgrade & FM @ 10-Year Annum, 2.5%	1 LS	\$594,000		
Pump Replacements @ 20-Year Annum, 2.5%	2 LS	\$50,000/Ea./Year		
Present Value of One-Time Future Costs \$874,000				
Alternate A - Total Estimated Present Worth \$2,478,000				

^{*} Road Rehabilitation is not required in this option; therefore, it is not included.

B. REPLACE AND UPSIZE LS8 WITH 6" FORCEMAIN - ALTERNATE B

Item	Quantity	Units	Budget Cost	
Replacement wet well, pumps, valves, vault	1 LS		\$300,000	
Electrical service – 277/480	1 LS	-==	\$64,000	
Controls upgrade	1 LS	-==	\$30,000	
Pipe burst 4" to 6" FM	3,500 LF	\$77/LF	\$270,000	
Restorations*	1 LS	-==	\$50,000	
		Subto	otal \$714,000	
Ancillaries	10%		\$71,000	
Planning, Engineering, Surveying, Legal	15%		\$107,000	
Contingencies	15%		\$107,000	
Total Estimat	ed Alternati	ve Cost (Present Wo	orth) \$999,000	
Interest Rate for Present Value	5%			
Life Cycle	50	Years		
Annual Cost per Lift Station	2 LS	\$26,350/Ea./Year		
	Present Va	lue of Annual Expo	enses \$962,000	
LS8 Capacity Modification @ 10-Year Annum, 2.5%	1 LS	\$75,000		
LS4 Capacity Upgrade & FM @ 10-Year Annum, 2.5%	1 LS	\$594,000		
Pump Replacements @ 20-Year Annum, 2.5%	2 LS	\$50,000/Ea./Year		
Present Value of One-Time Future Costs \$599,000				
Alternate B - Total Estimated Present Worth \$2,560,000				

^{*} Road Rehabilitation is not required in this option; therefore, it is not included.

C. REPLACE AND UPSIZE LS8, UPGRADE LS4 & FORCEMAIN - ALTERNATE C

Note: Alternate C requires work related to station 4

Item	Quantity	Units	Budget Cost	
New station, wet well, pumps, valves, vault	1 LS		\$300,000	
LS8 Electrical service – 277/480	1 LS		\$50,000	
Controls upgrade	1 LS		\$50,000	
Pipe burst 4" to 6" FM (LS8)	3,500 LF	\$77/LF	\$270,000	
Upgrade LS4	1 LS		\$300,000	
Pipe Burst 4" to 6" FM (LS4)	3,500 LF	\$77/LF	\$270,000	
Restorations*	1 LS	\$50,000	\$50,000	
		Subtot	al \$1,290,000	
Ancillaries	10%		\$129,000	
Planning, Engineering, Surveying, Legal	10%		\$129,000	
Contingencies	15%		\$194,000	
Total Estimated Alternative Cost (Present Worth) \$1,742,000				

Interest Rate for Present Value	5%			
Life Cycle	50	Years		
Annual Cost per Lift Station	2 LS	\$26,350/Ea./Year		
Present Value of Annual Expenses \$962,000				
Pump Replacements @ 20-Year Annum, 2.5%	2 LS	\$50,000/Ea./Year		
Present Value of One-Time Replacements \$98,000				
Alternate C - Total Estimated Present Worth \$2,802,000				

D1. REPLACE AND UPSIZE LS8, ABANDON LS4, INTERCEPTOR TO LS8 - ALTERNATE D1

Note: Alternate D1 requires work related to station 4

Item	Quantity	Units	Budget Cost		
New station, valves, & vault (increase 6' deep)	1 LS		\$350,000		
Electrical service – 277/480	1 LS		\$64,000		
Controls upgrade	1 LS		\$50,000		
Pipe burst 4" to 6" FM	3,500 LF	\$80/LF	\$280,000		
Install 6" FM w/restoration (current discharge 8 to 4 fm)	1,860 LF	\$70/LF	\$130,200		
Pipe burst 4" to 6" (Fm from LS4 to LS5)	3,220 LF	\$80/LF	\$257,600		
Install 12" interceptor sewer (from discharge to LS5)	1,700 LF	\$75/LF	\$127,500		
Bore 6" FM under interstate w/pipe	300 LF	\$650/LF	\$195,000		
Abandon Station 4	1 LS		\$50,000		
Install 10" interceptor from Station 4 to Station 8 (4)	4,300 LF	\$70/LF	\$301,000		
Bore 10" gravity under interstate w/pipe (4)	450 LF	\$750/LF	\$337,500		
Restorations*	1 LS		\$50,000		
		Subtota	al \$2,192,000		
Ancillaries	10%		\$219,000		
Planning, Engineering, Surveying, Legal	10%		\$219,000		
Contingencies	15%		\$329,000		
Total Estimated A	Total Estimated Alternative Cost (Present Worth) \$2,959,000				

Interest Rate for Present Value	5%				
Life Cycle	50	Years			
Annual Cost per Lift Station (10 Stations)	1 LS	\$29,000/Ea./Year			
Savings of Abandoned Lift Station	1 LS	(\$29,000/Ea./Year)			
Present Value of Annual Expenses Net Zero					
Pump Replacements @ 20-Year Annum, 2.5%	1 LS	\$50,000/Ea./Year			
Present Value of One-Time Replacements \$49,000					
Alternate D1 - Total Estimated Present Worth \$3,008,000					

ROTH PROFESSIONAL SOLUTIONS

Professional Consulting. Practical Solutions.



D2. DEEPEN LS4, ELIMINATE LS8, INTERCEPTOR FROM LS8 TO LS4, ALTERNATE D2

Note: Alternate D2 requires work related to station 4

Item	Quantity	Units	Budget Cost	
New station, wet well, pumps, valves, vault @ Station 4	1 LS		\$750,000	
Controls upgrade	1 LS		\$50,000	
Pipe burst 4" to 6" FM (LS4 to LS5)	3,500 LF	\$77/LF	\$269,500	
Install 12" interceptor sewer (8 to 4) (average 30 ft deep)	4,940 LF	\$160/LF	\$790,400	
Bore 12" under interstate w/pipe (8 to 4)	260 LF	\$750/LF*	\$195,000	
Manholes (approx. 15 @ 30' deep)	1 LS		\$100,000	
Restorations*	1 LS		\$50,000	
		Subtota	al \$2,205,000	
Ancillaries	10%		\$220,000	
Planning, Engineering, Surveying, Legal	10%		\$220,000	
Contingencies	15%		\$331,000	
Total Estimated Alternative Cost (Present Worth) \$2,976,000				

Interest Rate for Present Value	5%				
Life Cycle	50	Years			
Annual Cost per Lift Station (10 Stations)	1 LS	\$29,000/Ea./Year			
Savings of Abandoned Lift Station	1 LS	(\$29,000/Ea./Year)			
Present Value of Annual Expenses Net Zero					
Pump Replacements @ 20-Year Annum, 2.5%	1 LS	\$50,000/Ea./Year			
Present Value of One-Time Replacements \$49,000					
Alternate D2 - Total Estimated Present Worth \$3,025,000					

SUMMARY OF COSTS:

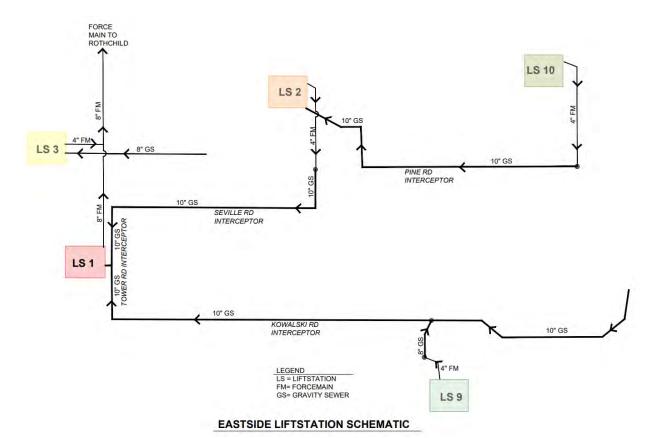
Alt.	Description	Capital Cost	Present Worth Cost
A	Refurbish LS8, 6" Forcemain (LS4 & LS8 Upgrade in 10-years)	\$642,000	\$2,478,000
В	Rebuild LS8 with 6" Forcemain (LS4 Upgrade in 10-years)	\$999,000	\$2,560,000
С	Replace and Upsize LS8, Upgrade LS4 & Forcemain (LS4 Upgrade at Present Time)	\$1,742,000	\$2,802,000
D1	Replace and Upsize LS8, Abandon LS4, Interceptor to LS8 (All Costs at Present Time)	\$2,959,000	\$3,008,000
D2	Abandon LS8, Deepen LS4, Interceptor from LS8 to LS4 (All Costs at Present Time)	\$2,976,000	\$3,025,000

EASTSIDE COLLECTION SYSTEM COMMENTARY

Although the Eastside system does not affect TID#2, LS8 or LS4, it is appropriate to mention the outcome of our analysis with respect to required capital improvement costs to the utility. Our analysis of the eastside indicates that all interceptors and forcemains are adequate for their current capacity. Additionally, the lift stations are adequate for their current purpose and demand. There are no immediate capital improvement projects stemming from a critical system need, other than power and generator service to the stations, especially the collector lift stations.

A summary of power service costs is as follows for the Eastside Collection System:

LS1 Generator System Upgrade	\$150,000
LS2 Generator System & 3-Phase Power	\$100,000
LS1 3-Phase Power	\$300,000



As for future projects, where additional development occurs in the areas east of Pleasant Road, this area can be served by the gravity sewer interceptor system of LS1 and avoid future lift stations should that area go into continued rural residential development as the Comprehensive Plan calls for. This requires upsizing of the existing Kowalski interceptor as it collects to LS1.

The area on the south side of the Bull Junior Creek can be served by LS9 if development should occur in the near occurrence. In the long term, LS9 could potentially be eliminated with careful planning and the extension of an interceptor as those projects are able to be phased in over time.

Similarly LS10, with careful planning can be eliminated with the extension of an an interceptor to LS2 and its existing interceptor system.

RECOMMENDATION

Since LS8 and LS4 are within the TID expenditure range and are linked in system required upgrades that are needed for TID2 development as well as future capacity within the 208 area, those projects are recommended to be moved along a timeframe that allows for contracting by the end of 2024 prior to the close out deadline of TID2. The ultimate design and final improvement schedule will be identified as more detail and design is completed. But overall, the improvements would go towards better system reliability, improved planning capacity, and orderly minimization of long-term replacement costs with those lift stations.

Respectfully,

ROTH PROFESSIONAL SOLUTIONS

Robert J. Roth, PE

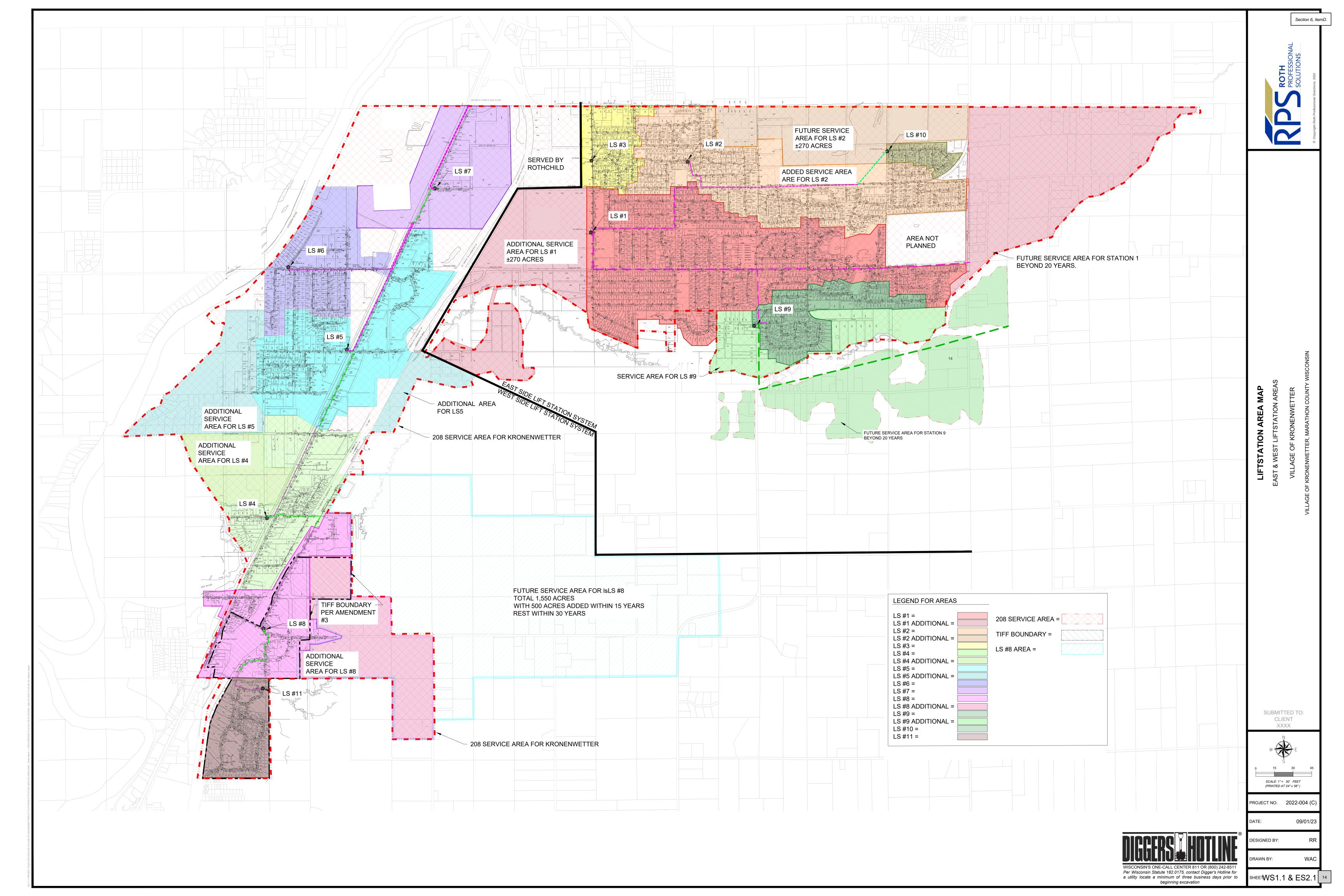
Attachments: Overall Sewer Collection & LS Basin Map

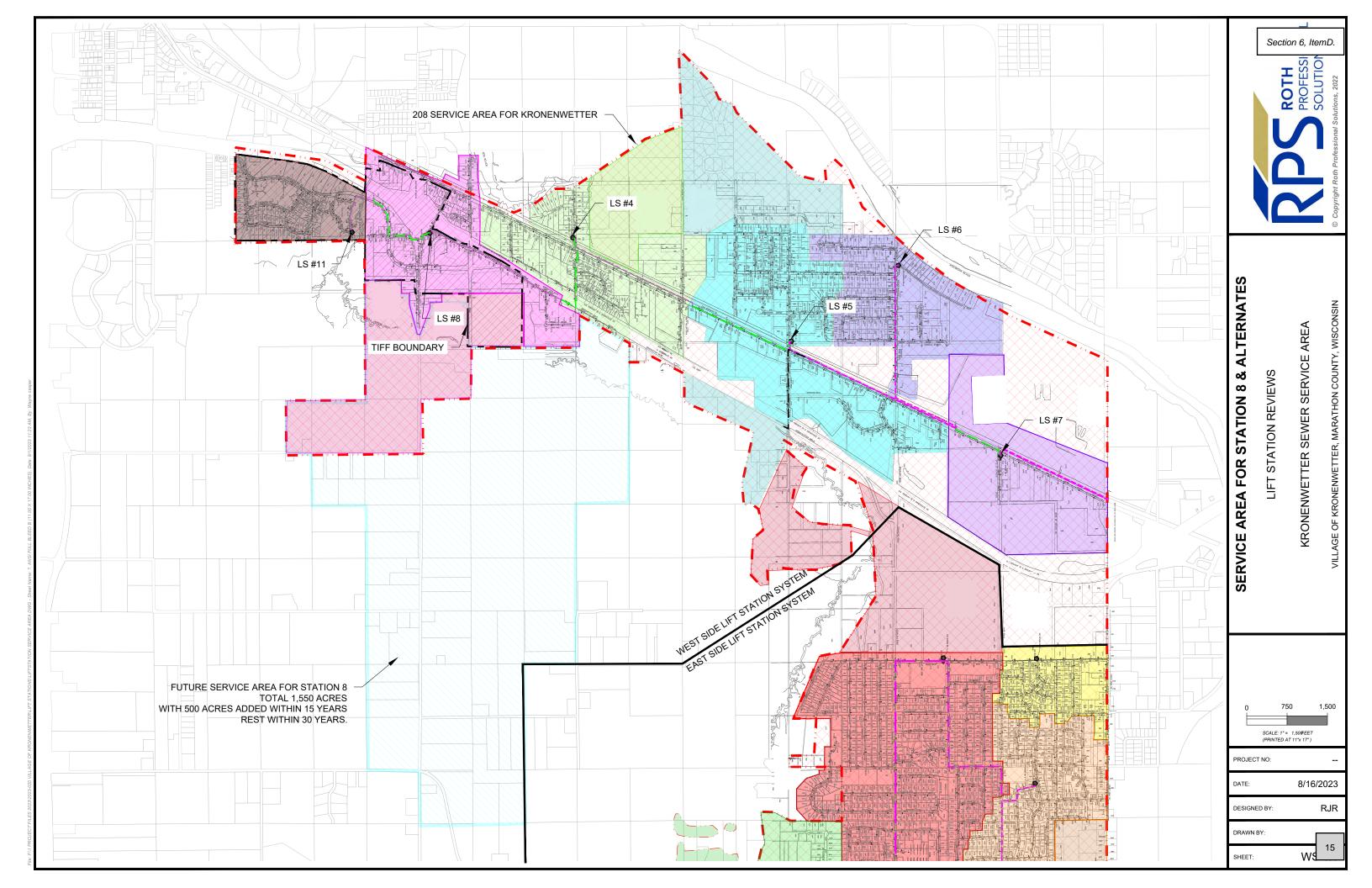
Westside Sewer Collection System Map

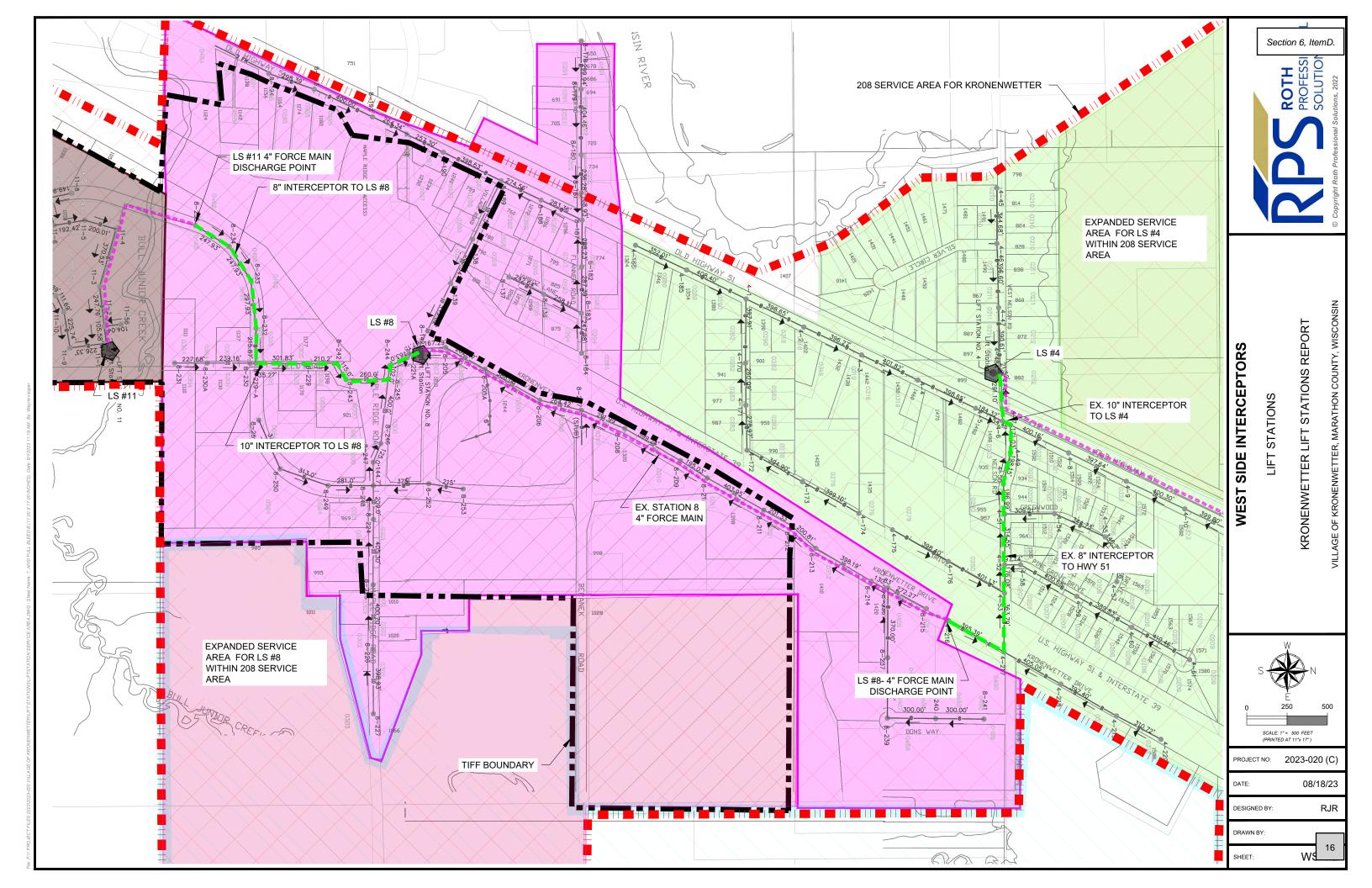
TID2 & LS8, LS4 Area Map

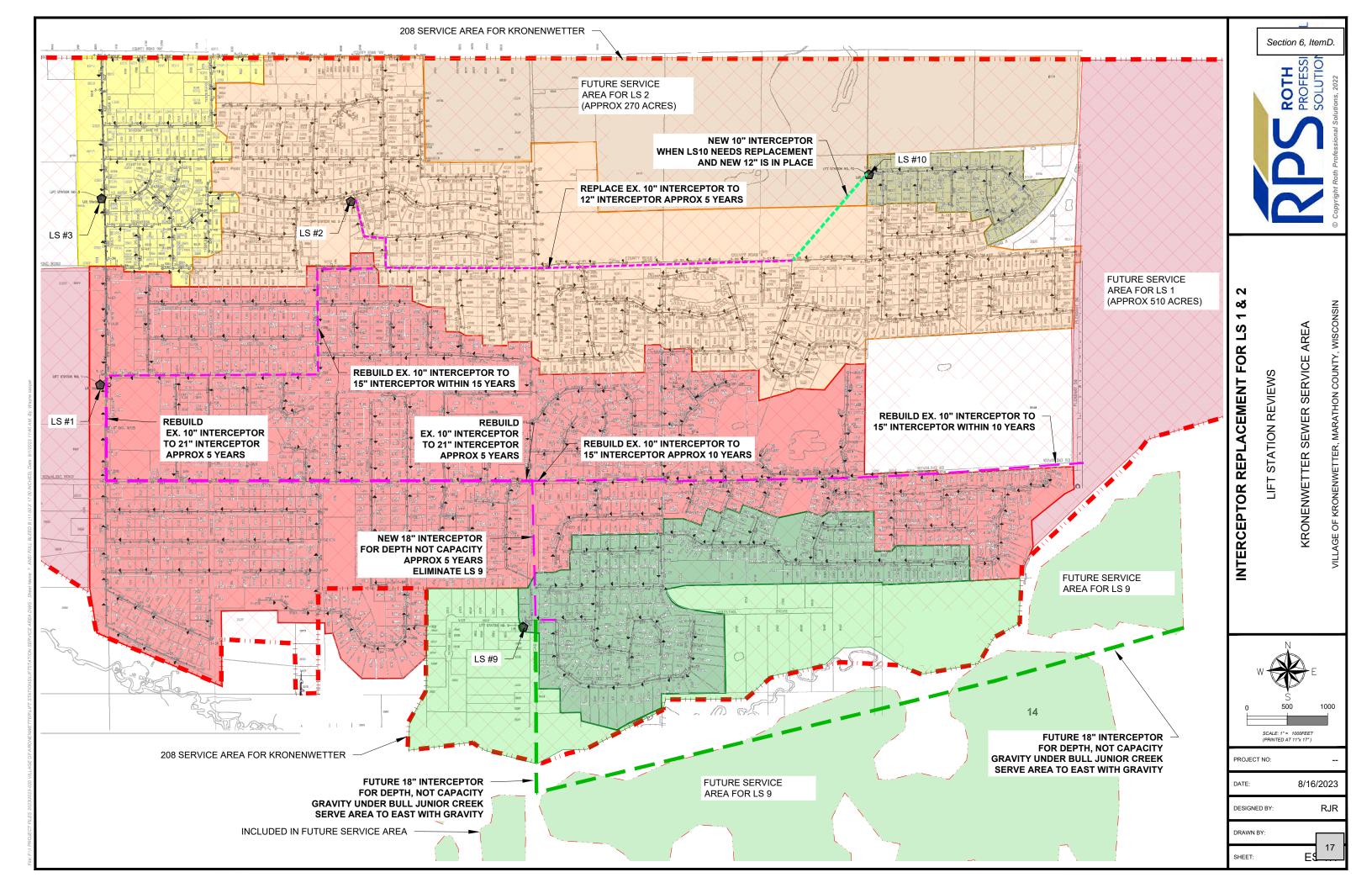
Eastside Sewer Collection System Map

ROTH PROFESSIONAL SOLUTIONS









Preliminary Project Priority List SUBJECT TO CHANGE

Rank	Project Description	Current	Short Term	Long Term				
	-	0-5 years	5-10 years	10+ years				
1	LS8 & FM Upgrade if within TID2	\$1,000,000						
2	LS4 & FM Upgrade if within TID2	\$600,000						
3	LS1 Generator Upgrade	\$150,000						
4	LS7 Gas Mitigation & 3-Phase Power	\$75,000						
5	LS2 Generator & 3-Phase Power		\$100,000					
6	LS3 Elimination, New Interceptor		\$500,000					
7	LS1 Interceptor Upsizings			TBD*				
8	LS10 Elimination			TBD*				
9	LS5 & FM Upgrade, Interceptor			\$721,000*				
10	LS7 Upgrade			TBD				
11	LS1 Upgrade & 3-Phase Power			TBD*				
12	LS6 Electrical Upgrade			TBD				
13	LS9 Elimination & Interceptor			TBD*				
*or as development occurs								

Section 6, ItemE.

REPORT TO UC



ITEM NAME: Sewer & Water Capital Project List

MEETING DATE: 9/5/2023
PRESENTING COMMITTEE: UC

COMMITTEE CONTACT:

STAFF CONTACT: Lisa Kerstner
PREPARED BY: Lisa Kerstner

ISSUE:

OBJECTIVES: Give an update on the projects on the capital project list.

ISSUE BACKGROUND/PREVIOUS ACTIONS:

PROPOSAL:

ADVANTAGES:

DISADVANTAGES:

ITEMIZE ALL ANTICIPATED COSTS (Direct or Indirect, Start-Up/One-Time, Capital, Ongoing & Annual, Debt Service, etc.)

RECOMMENDED ACTION:

OTHER OPTIONS CONSIDERED: Timeframe of the projects and other new projects coming in the future.

TIMING REQUIREMENTS/CONSTRAINTS:

FUNDING SOURCE(s) - Must include Account Number/Description/Budgeted Amt CFY/% Used CFY/\$

Remaining CFY
Account Number:

Description:

Budgeted Amount:

Spent to Date:

Percentage Used:

Remaining:

ATTACHMENTS (describe briefly): Capital Project List

Project	Funding	Proj #	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Notes:
Sewer Lift Station Rebuild Program	Sewer	SW-17-001	50,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	11 Lift stations
New Lift Station (#12)	Sewer	SW-17-002	50,000	100,000	100,000	200,000	200,000	200,000					Phase I: Location/design, Phase II: Construction
Sewer Ordinance and Rate Study	Sewer	SW-17-003											
Sewer Interceptor Capacity Review & Design	Sewer	SW-17-004			140,000								Study and design (no construction)
Water Meter Change Out	Sewer	WT-17-002	40,000	40,000									2023-2025, ~100 meters per year
Water & Sewer GIS System	Sewer	WT-17-006	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	Split 50/50 with Water
Vac Truck	Sewer			360,000	360,000								
New Storage Building/Garage (heated)	Sewer		400,000	400,000									(360,000 - vac truck budget 2023)
Pickup Truck	Sewer		40,000										Split 50/50 with Sewer
Water Meter Change Out	Water	WT-17-002	40,000	40,000									
Repaint Water Tower	Water		500,000	500,000									Maintenance (10,000)
													the well 1 rehab work will likely occur in 2024, after the new
New Water Well (3) & Filter Project	Water	WT-17-004	500,000										filtration plant is complete and well 2 is back online
Water & Sewer GIS System	Water	WT-17-006	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	Split 50/50 with Sewer
10 Year Well Inspection	Water	WT-19-002		50,000				50,000					
Well 3	Water			500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	Study, deisgn, etc.
Well 1 Rehab	Water		60,000										
Pickup Truck	Water		40,000										Split 50/50 with Sewer

Section 6, ItemF.

REPORT TO UC



ITEM NAME: Water Meter Change Out

MEETING DATE: 9/5/2023 PRESENTING COMMITTEE: UC

COMMITTEE CONTACT:

STAFF CONTACT: Lisa Kerstner PREPARED BY: Lisa Kerstner

ISSUE:

OBJECTIVES: Update on Water Meter Change Out.

ISSUE BACKGROUND/PREVIOUS ACTIONS: 54 Meter Change outs were completed in March/April.

PROPOSAL: 61 Meter Change outs are scheduled for this Fall/Winter.

ADVANTAGES:

DISADVANTAGES:

ITEMIZE ALL ANTICIPATED COSTS (Direct or Indirect, Start-Up/One-Time, Capital, Ongoing & Annual, Debt Service, etc.)

RECOMMENDED ACTION:

OTHER OPTIONS CONSIDERED: Meter Changes outs are pending on how many meters and radios we have.

TIMING REQUIREMENTS/CONSTRAINTS:

FUNDING SOURCE(s) - Must include Account Number/Description/Budgeted Amt CFY/% Used CFY/\$

Remaining CFY

Account Number:

Description:

Budgeted Amount:

Spent to Date:

Percentage Used:

Remaining:

ATTACHMENTS (describe briefly):