

June 11, 2025

Salix Drainage District
Board of Trustees

Subject: Maintenance Items

Main Ditch & Lateral Discussion

At the first meeting of the Salix Drainage District held on March 12, 2025 it was requested that the engineer review the Main Ditch and the laterals and recommend any repairs that may be needed. The Main Ditch starts at the intersection of Lakeport Street and Maple Street. It then goes south along the east side of Lakeport Street to the intersection of Lakeport Street and 280th Street. The Main Ditch then goes east along the north side of 280th Street to the terminus at the lift pump located at the intersection of King's Trail and 280th Street. A portion of the Main Ditch extends north along the west side of King's Trail to the intersection of King's Trail and Walnut Street.

Lateral 1 consists of 2,168 lineal feet of 12-15 inch storm sewer pipe running along Maple street from Travis Street to Oak Street. Lateral 1 connects to the Main Ditch at Lakeport Street.

Lateral 2 is made up of 1,066 lineal feet of 12-24 inch storm sewer pipe that's starts at the intersection of Walnut Street and Tama Street, goes northwesterly along Tama Street to Maple Street. It then goes along Maple Street from Tama Street to Pine Street.

Site Visit

Veenstra & Kimm Inc. acting as the engineer performed a site visit of the Main Ditch and Laterals 1 & 2. During the site visit it was noted that the Main ditch has a number of trees growing within the ditch side slopes and the flowline. There is a fair amount of foreign vegetation and trash in the flow line of the Main Ditch.

Laterals 1 & 2 had some standing water and were heavily filled with sedimentation. There were also a few inlets that are damaged and should be replaced.

Recommendations

This is the first review of the newly created Salix Drainage District. It is recommended that the Salix Drainage District complete the Classification. Once this is completed then make the following repairs to the Main Ditch and Laterals 1 & 2. The flowlines in the Main Ditch are extremely flat and will tend to silt in over time. These repairs will allow the Salix Drainage District to return the flowlines to their original grades and slopes.

1. Replace 2 inlets on the north side of the intersection of Oak Street and Maple Street.
2. Replace 1 inlet on the east side of the intersection of Pine Street and Maple Street
3. Clean and inspect all storm sewer pipes of Laterals 1 & 2. This includes removing debris from inlets.
4. Remove all trees that are within the ditch banks and flowline along Lakeport Street between Maple Street and 280th Street. Clean and regrade flowline.
5. Remove all trees that are within the ditch banks and flowline along 280th Street between Lakeport Street and S. Tama Street (Kings Trail). Clean and regrade flowline.
6. Remove all trees that are within the ditch banks and flowline along S. Tama Street (Kings Trail) between 280th Street and Walnut Street. Clean and regrade the flowline. Regrade east bank to a minimum of 3:1 slope.

Attachments

Engineers Estimate

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read "Chad Kehrt".

Chad Kehrt, P.E.
Veenstra & Kimm, Inc.

1 - Inlets @ Intersection of Oak & Maple							
Item No.	Description	Quantity	Unit		Unit Price		Total
1	Remove & Replace Inlets	2	EA	\$	\$3,000.00	\$	\$6,000.00

2 - Inlet @ Intersection of Pine & Maple							
Item No.	Description	Quantity	Unit		Unit Price		Total
1	Remove & Replace Inlets	1	EA	\$	\$3,000.00	\$	\$3,000.00

CONSTRUCTION SUBTOTAL							\$9,000.00
15% CONTINGENCY							\$1,350.00
Design & Survey							\$1,000.00
Construction Observation							\$1,000.00
TOTAL OPINION OF CONSTRUCTION COSTS							\$12,350.00

3 - Cleaning and Video of Laterals 1 & 2

Item No.	Description	Quantity	Unit		Unit Price		Total
1	Clean and inspect Storm Sewer Pipes	3,250	LF	\$	\$12.50	\$	\$40,625.00
	CONSTRUCTION SUBTOTAL						\$40,625.00
	15% CONTINGENCY						\$2,031.00
	Design & Survey						\$1,000.00
	Construction Observation						\$1,000.00
	TOTAL OPINION OF CONSTRUCTION COSTS						\$44,656.00

4- Clean Ditch (Lakeport Street)							
Item No.	Description	Quantity	Unit		Unit Price		Total
1	Clear Trees (1700X20)	0.80	ACRE	\$	\$10,000.00	\$	\$8,000.00
2	Excavation (1700X2X.75)	100	CY	\$	\$50.00	\$	\$5,000.00
5- Clean Ditch (280th Street)							
Item No.	Description	Quantity	Unit		Unit Price		Total
1	Clear Trees (2500X20)	1.15	ACRE	\$	\$10,000.00	\$	\$11,500.00
2	Excavation (2500X2X.75)	150	CY	\$	\$50.00	\$	\$7,500.00
6- Clean Ditch (S. Tama Street)							
Item No.	Description	Quantity	Unit		Unit Price		Total
1	Clear Trees (1500X30)	1.05	ACRE	\$	\$10,000.00	\$	\$10,500.00
2	Excavation (1500X4X1)	225	CY	\$	\$50.00	\$	\$11,250.00
CONSTRUCTION SUBTOTAL							\$53,750.00
15% CONTINGENCY							\$8,063.00
Design & Survey							\$7,500.00
Construction Observation							\$1,500.00
TOTAL OPINION OF CONSTRUCTION COSTS							\$70,813.00