



**JACOBSON-WESTERGARD
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“Bettering Iowa since 1970”

December 5, 2024

Bremer County Board of Supervisors
415 E. Bremer Avenue
Waverly, IA 50677

Re: Drainage District No. 5 Main Tile Improvement / Re-Route Completion Report
Bremer County, Iowa
JWA PROJECT NO: E22159

Dear Board Members and Landowners:

A. Introduction

The contract for the Main Tile improvement / re-route to Drainage District No. 5 in Bremer County has been satisfactorily completed. The work generally included tile improvements comprising of 2,819 feet of 42” dia. reinforced concrete pipe (RCP) as the Main Tile improvement / re-route, 2,480 feet of 12” – 8” dual-wall HDPE pipe to replace the existing 36” dia. cement main, and 1,028 feet of 5” single-wall HDPE pipe to keep private tile encountered on the Strottmann property disconnected from the new 42” dia. Main Tile.

Bids were tabulated on June 4, 2024, and included a Base Bid (reinforced concrete pipe) and a Bid Alternate (dual-wall plastic). The low bid for both the Base Bid and Bid Alternate was submitted by Denver Underground & Grading of Denver, Iowa. They were subsequently awarded the contract for their Base Bid in the amount of **\$453,334.00**, as compared to the engineer’s estimate of \$468,870.00. With change orders, the final contract amount is **\$451,348.50**.

B. Liquidated Damages

The contract completion date was set as January 15, 2025, and this project was completed before this date therefore liquidated damages are not applicable.

C. Retainage and Warranty

The contractor has been paid, or is in the process of being paid, for all but 10% of the contract (retainage, as required by Iowa Code), which is eligible for payment a minimum of 30 days after the acceptance of the work at the Completion Hearing. The 1-year warranty period also begins upon the acceptance of the work by the Board.

D. Damages

We note that although the contractor could have opted to start the work during the crop season, resulting in the destruction of standing crops, they opted to delay the start of construction until after harvest had been completed. This helped save on overall project costs by limiting damage reimbursements for crop damage.

However, despite standing crops not being destroyed, we acknowledge that with a project of this nature the compaction will cause future yield reductions. We estimate that an area of approximately 40 feet wide centered on the tile trench will cumulatively lose one (1) full crop. To estimate the damage reimbursement, we used the Bremer County 5-year yield averages, the 2024 average closing prices, and assumed a corn-soybean rotation for a total of \$733.48 / acre in recommended damage reimbursement. See the enclosed map and table.

Additionally, we note that grass in pastureland near Crane Creek was destroyed and reimbursement is recommended at \$250 / acre. The area was surveyed with GPS equipment on December 3, 2024.

If there is any damage not described in this report, we recommend a claim be filed in the Bremer County Auditor's office in advance of the project completion hearing. We will complete the as-built plans, which will include locations and pictures of private tile connections, and make them available at the completion hearing, or upon request.

Sincerely,

JACOBSON-WESTERGARD & ASSOCIATES, INC.

A handwritten signature in black ink that reads "Collin Klingbeil". The signature is written in a cursive, flowing style.

Collin J. Klingbeil, PE

Recommended Crop Damage Reimbursement for Drainage District No. 5 Tile Improvements
 Bremer County, Iowa
 JWA Project No: E22159

Inputs	Corn	Beans	Units	Source
Yield	208	60	bushels/acre	5-year average Bremer County Yields, USDA Statistics
Price	4.22	9.82	\$ / bushel	2024 YTD Avg Closing Price, MacroTrends
Damage	\$877.76	\$589.20	\$/acre	Calculated, Yield x Price
Average	\$733.48		C-S rotation	Calculated, Average of Corn & Soybean \$/acre damage values
Equivalent to one crop loss in the future due to compaction				

Landowner Name	Parcel ID	S-T-R	Legal Description	2024 Crop	2024 Crop	2024 Crop	Future	Future Crop
				(Type)	Destroyed (ac)	Destroyed	Damage (ac)	Damage
Strottmann, Larry L & Carol R	1116400001	16-91-12	NW SE	Corn	0.0	\$0.00	0.5	\$366.74
	1116400001	16-91-12	NW SE	Pasture	1.3	\$325.00	0.0	\$0.00
Total							\$691.74	
Grober, Thomas	1116200007	16-91-12	S 1/2 SE NE	Beans	0.0	\$0.00	1.1	\$806.83
Lau, Dawn	1116200003	16-91-12	SW NE	Beans	0.0	\$0.00	1.2	\$880.18
	1116200006	16-91-12	N 1/2 SE NE	Beans	0.0	\$0.00	1.7	\$1,246.92
Total							\$2,127.09	
Totals					1.3	\$325.00	4.50	\$3,300.66

Grand Total Crop Damages	\$3,625.66
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Drainage District No. 5 Main Tile Improvement/Re-Route Crop Damage Map

Bremer County, Iowa

