

Exhibit 4

Engineer's Statement of Cost of Survey.

Names of Assistants	No. of Days	Amount per Day	Total Amount	Other Expenses	Amount	Grand Total
K.C. Richardson - asst. En	21	\$6.00	\$126.00			\$126.00
K.P. Caswell - Chairman	10	2.50	62.50			62.50
Ross Cutter - Chairman	6	2.50	35.00			35.00
Wayne L. Ridge - Eng	20	6.00	120.00	Penk. Marks Stakes, etc.	\$35.10	155.10
Merrill Groat - Livery	15	2.00	30.00			30.00
Warren Foote - Chairman	10	2.00	20.00			20.00
						\$448.60

Engineer's Estimate

of laying out, establishing and constructing County Ditch No. 54

Cost of excavation and construction work.	\$12,822.55
Cost of Survey and Report	448.60
Cost of Viewers and Report	125.00
Legal publications required	150.00
Posting Notices	18.00
Auditor's Compensation	150.00
Attorney's Compensation	150.00
Register of Deed's Fees	10.00
County Commissioners' Meetings	80.00
Supervising, Inspecting Work.	300.00
	\$12,714.15

Description of County Ditch No. 54
Main Ditch

Commencing in the SE 1/4 of the SE 1/4 of Sec. 4 Twp 31, R. 24, 33 ft North and 5625 ft West of the S.E. Corner of said Sec. 4, thence running Southwesterly through the NE 1/4 of NE 1/4 and Southeasterly through the SE 1/4 of the NE 1/4, all in Sec. 9 Twp 31, R. 24, and continuing Southeasterly through the NW 1/4 of SW 1/4, the NE 1/4 of SW 1/4, the SE 1/4 of the SW 1/4, the NW 1/4 of SE 1/4, the SW 1/4 of the SE 1/4, the NE 1/4 of the SE 1/4, and the SE 1/4 of the SE 1/4, all in Sec. 10 Twp 31, R. 24, and continuing Southeasterly through the NW 1/4 of the NW 1/4, the SW 1/4 of the NW 1/4, the SE 1/4 of the NW 1/4 and about 500 ft into the NE 1/4 of the SW 1/4, all in Sec. 14 Twp 31, R. 24, and thence ending.

Branch No. 1

Commencing North 18° E, 1124 ft. of a point 100 ft West of the South one-quarter Corner of Sec. 4, Twp 31, R. 24, thence running Southeasterly through the SE 1/4 of the SW 1/4 and the SW 1/4 of the SE 1/4 all in said Sec. 4, thence East Parallel with and 33 ft South of North line of Sec. 9 Twp 31, R. 24, through the NW 1/4 of the NE 1/4 of said Sec. 9 and ending in the Main Ditch in the NE 1/4 of the NE 1/4 of Sec. 9 Twp 31, R. 24.

Branch No. 2

Commencing 1930 ft. West of the SE 1/4 of the NE 1/4 of the NW 1/4 of Sec. 9 Twp 31, R. 24, thence Westerly through the SW 1/4 of the NW 1/4, the SE 1/4 of the NW 1/4, the SW 1/4 of the NE 1/4, and ending in the Main Ditch in the SE 1/4 of the NE 1/4, all in Sec. 9 Twp 31, R. 24.

Branch No. 3

Commencing in the SW 1/4 of the SE 1/4 of Sec. 9 Twp 31, R. 24, thence running Northeasterly through the NW 1/4 of the SE 1/4, the NE 1/4 of the SE 1/4 and ending in the Main Ditch in the SE 1/4 of the NE 1/4, all in Sec. 9 Twp 31, R. 24.

Branch No. 4

Commencing in the NW 1/4 of the SE 1/4 of Sec. 3, Twp 31, R. 24, thence running Southerly through the SW 1/4 of the SE 1/4 of said Sec. 3, and continuing Southerly through the NW 1/4 of the NE 1/4, the SW 1/4 of the NE 1/4, and the NW 1/4 of the SE 1/4, all in Sec. 10 Twp 31, R. 24, and ending in the Main Ditch on the South line of said NW 1/4 of SE 1/4 of said Sec. 10.

Engineers Report
County Ditch No. 54
Anoka Co. Minn.

To The Board of County Commissioners of
Anoka Co. Minn.

In the matter of County Ditch No. 54

To the County Commissioners above named:
I, the undersigned engineer appointed by your order dated the 6th day of June A.D. 1914 and duly filed herein, reference to which is hereby made, to survey the route of the drain above specified, respectfully report as follows:

FIRST: That I did take the oath required by law, and executed the bond required by law, which bond has approved by the County Attorney and filed in the office of the County Auditor.

SECOND: That immediately thereafter I did proceed to make such survey of said drain from its sources to its outlets and of the branches thereof which in my opinion are necessary to give the land owners likely to be assessed for the construction thereof the full benefit thereof; and that I did proceed to make a carefull and complete survey of the territory proposed to be drained by said ditch, drain and watercourse, and did cause to be set along the line of said drain and the said branches thereof, stakes numbered progressively down stream at each one hundred feet thereof; that in making such survey I did locate the sources and outlets and lines of said drain as near as practicable to the points and lines specified in the partition theretore; that wherever the line of said drain is along an established highway, I did locate it at a sufficient distance from the center line of said highway to admit of good drainage thereof and good roads along the center line thereof and of the working and improving of the same as herein after specified; that I did, so far as practicable, locate said drains on division lines between lands owned by different persons, and did avoid, as far as possible, with out sacrificing the general utility thereof, laying or locating the lines of said drain diagonally across lands owned by one person;

That I have caused a map to be made of said survey, showing the line and location of said drain and of the branches thereof; the number of each stake along the line thereof and along the branches thereof; the highways along which said drain will run; the separate tracts of land over or across or along which any part of said drain and of the branches thereof will pass, the description thereof, the boundaries thereof, the number of acres therein and the name of the owner thereof; which said map is hereto attached as a part hereof, marked "Exhibit 1"

THIRD: That I did cause to be ascertained the number of cubic yards to be excavated between each two of the stakes set as aforesaid every one hundred feet along the line of said drain and of the branches thereof; the cost of excavating the same per cubic yard; the abstractions to be removed and the structures necessary to be built, such as bridges, fences, masonry and woodwork between each of said one hundred feet stakes, and the estimated cost thereof; the underground work necessary to be done and the character thereof, together with the size and kind of tile and other material therefor and the estimated cost of same between each of said one hundred feet stakes; the total estimated number of cubic yards of earth to be removed from said drain and the branches thereof; the estimated preliminary expenses, expenses of inspection and other expenses of said drain and its branches to its completion; and did cause all the same to be shown in a tabular statement which is hereto attached as a part hereof marked "Exhibit 2"

FOURTH: That I did cause to be ascertained the necessary depth of cut, the width thereof at the bottom, the width thereof at the top, between each of said one hundred feet stakes along the line of said drain and of the branches thereof; the manner and the time in which said work is to be done between each of said one hundred feet stakes along the line of said drain and the branches thereof; and have caused the same to be shown in a tabular statement which is attached hereto and made a part hereof, marked "Exhibit 3"

FIFTH: That I have caused to be ascertained and set forth in a tabular statement, the time occupied by me in making said survey and my compensation therefor; the names of the assistants employed by me in making said survey, the time each was employed, the amount per day to be paid to them and the total amount to be paid to each; all of the other expenses of every kind and nature incurred by me in making said survey, the amounts thereof and the total expense of said survey; which said tabular statement is hereto attached as a part hereof and marked "Exhibit 4"

SIXTH: That with the assistance of the County Attorney of said county, I did cause to be prepared a form of contract under which said work of construction of said drain is to be done, with complete specifications and plans of said work and the manner in which the same is to be done, which said form of contract is hereto attached as a part hereof, marked "Exhibit 5"

SEVENTH: This drainage project is proposed by me to be an open ditch in its entirety, with the exceptions as shown on the plans, and the excavation will consist of loam, peat, clay, gravel and some rock, and is to be a dredge job on the main ditch and wherever possible on the branches thereof.

Dated November 21st 1914

Respectfully submitted
Wayne L. Ridge
Engineer

Subscribed and sworn to before me this 21st day of November 1914

Dennis Clavett
Deputy County Auditor
Anoka Co. Minn.

This report certified as to 8 plat sheets & Profile and Estimate sheets, Contract, specifications and bond.

Wayne L. Ridge
Engineer

Manner in which work is to be done and time for completion thereof.

Main ditch to be open ditch dredge work and to be completed on or before July 15th, 1915.

Branch ditches are to open ditch dredge work and are to be completed on or before November 1st, 1915.

54