

In the Matter of the Petition of A. Matushak and others
for Repairs County Ditch No. 41, Anoka County, Minnesota.

To the Board of County Commissioners of the County of Anoka:
I, the undersigned Engineer, appointed by your board to
survey the route of County Ditch No. 41, would respectfully report
that I have made a complete survey of the Main Ditch as petitioned.

I did further cause to be made in tabular form a statement
showing the depth of cut, the width at the bottom, width at the
top, the number of cubic yards in the old ditch and the number of
cubic yards to be excavated between each one hundred (100) feet
stakes, the cost of excavating same per cubic yard, the total
estimated number of cubic yards to be excavated, the total estimated
cost of said work complete to its completion, which tabular state-
ment is hereto attached and marked exhibit "2".

I did further cause to be set forth in tabular statement,
showing the time occupied by me in making said survey and my
compensation therefor; the names of the assistants and laborers,
employed in making said survey; the time each was employed, the
amount per day of each and their compensation, and the total amount
each is to be paid; and the other expenses of every kind and nature
incurred by me in making said survey, and the amounts thereof; which
statement is hereto attached and marked exhibit "3".

I did cause to be prepared a form of contract under which the
work of construction of repairs of said Public Ditch and its branches
is to be done, with complete specifications of the manner in which
work of said construction is to be done attached thereto, which said
form of contract and specifications is hereto attached and marked
exhibit "4".

Walter F. Ridge
Engineer Repairs Ditch No. 41.

Anoka, Minnesota.
December 16th, 1916.

man held from slo 185 to 398+81

ESTIMATED COST OF REPAIRS COUNTY DITCH NO. 41

Cost of construction -----; ;	\$ 7465.45
Posting notices, Sheriff's fees -----	35.00
Survey and report -----	277.00
Supervision and Inspection -----;	200.00
Auditors fees -----	200.00
Register of Deeds fees -----	10.00
Legal publications required -----;	50.00
Attorney's fees -----	50.00
Commissioners Meetings -----;	80.00
Viewers REport -----	200.00

Total	\$ 8567.45

EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS

Showing Estimated Depth of Cut, Width, No. of Cubic Yards Removed and Cost of Same, in Ditch No.

SECTION	(1) DEPTH OF CUT	(2) WIDTH OF CUT AT BOTTOM	(3) WIDTH OF CUT AT TOP	(4) NO. OF CUBIC YARDS TO BE REMOVED		(5) Estimated Cost Per Cubic Yard \$ CTS.	(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section		(7) Total Estimated Cost per Section			
				cu. yds in	cu. yds to Excav.		\$	CTS.	\$	CTS.	\$	CTS.
				Old Ditch	to Excav.							
Between Stake No. 185 and Stake No. 186	8.0 6.5	8.0	24.0	187	225					45 00		
Between Stake No. 187 and Stake No. 188	7.7 6.8		23.4	181	217					43 40		
Between Stake No. 189 and Stake No. 190	6.8 6.7		21.6	183	227					45 40		
Between Stake No. 189 and Stake No. 190	6.8 6.7		21.6	160	213					42 60		
Between Stake No. 191 and Stake No. 192	6.8 7.4		21.4	168	201					40 20		
Between Stake No. 191 and Stake No. 192	6.8 7.4		21.6	183	186					37 20		
Between Stake No. 193 and Stake No. 194	8.4 7.4		22.8	194	202					40 40		
Between Stake No. 193 and Stake No. 194	8.4 7.4		24.8	214	252					50 40		
Between Stake No. 194 and Stake No. 195	7.4 7.0		22.8	212	254					50 80		
Between Stake No. 195 and Stake No. 196	7.0 6.4		22.0	196	210					42 00		
Between Stake No. 196 and Stake No. 197	6.4 6.5		20.8	191	174					34 80		
Between Stake No. 197 and Stake No.	6.5		21.0	184	161					32 20		
Between Stake No. and Stake No. Between Stake No. and Stake No. Between Stake No. and Stake No.												

1522

\$ 504.40

Total Estimated Cost of Whole Work, \$

EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS

Showing Estimated Depth of Cut, Width, No. of Cubic Yards Removed and Cost of Same, in Repairs County Ditch No. 41

SECTION	(1) DEPTH OF CUT	(2) WIDTH OF CUT AT BOTTOM	(3) WIDTH OF CUT AT TOP	(4) Cuyds		(5) Estimated Cost Per Cubic Yard \$ CTS.	(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section		(7) Total Estimated Cost per Section	
				No. OF CUBIC YARDS TO BE REMOVED <i>Old Ditch.</i>	<i>Excav</i>		\$	CTS.	\$	CTS.
Between Stake No. 198	7.1	8.0'	22.2	183	190	.20			38	00
and Stake No. 199	7.4		22.8	189	221				44	20
Between Stake No. 200	6.9		21.8	183	219			43	80	
and Stake No. 201	6.8		21.6	181	196			39	20	
Between Stake No. 202	6.6		21.2	177	188			37	60	
and Stake No. 203	7.1		22.2	166	211			42	20	
Between Stake No. 204	6.6		21.2	166	211			42	20	
and Stake No. 205	6.3		20.6	167	178			35	60	
Between Stake No. 206	7.8		23.6	202	193			38	60	
and Stake No. 207	10.8		29.6	303	301			60	20	
Between Stake No. 208	10.6		29.2	403	338			67	60	
and Stake No. 209	9.1		26.2	439	214			42	80	
	+18		30.2	89	34					
Between Stake No. 210	9.5		27.0	373	201			40	20	
and Stake No. 211	8.7		25.4	286	291			58	20	
Between Stake No. 212	9.5		27.0	303	274			54	80	
and Stake No. 213	9.0		26.0	323	268			53	60	
Between Stake No. 214	9.5		27.0	299	292			58	40	
and Stake No. 215	7.3		22.6	249	266			53	20	
Between Stake No. 216	7.1		22.2	189	217			43	40	
and Stake No. 217	7.4		22.8	193	217			43	40	
				4720						944.00

Total Estimated Cost of Whole Work, \$.....

EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS

Showing Estimated Depth of Cut, Width, No. of Cubic Yards Removed and Cost of Same, in *Repairs County* Ditch No. *41*

SECTION	(1) DEPTH OF CUT	(2) WIDTH OF CUT AT BOTTOM	(3) WIDTH OF CUT AT TOP	(4) Cuyds.		(5) Estimated Cost Per Cubic Yard \$ CTS.	(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section		(7) Total Estimated Cost per Section	
				No. OF CUBIC YARDS TO BE REMOVED <i>Old Ditch</i>	<i>To be Excav</i>		\$	CTS.	\$	CTS.
Between Stake No. <i>218</i>	<i>7.2</i>	<i>8.0'</i>	<i>22.4</i>	<i>198</i>	<i>216</i>	<i>20</i>			<i>43</i>	<i>20</i>
and Stake No. <i>219</i>	<i>6.8</i>		<i>21.6</i>	<i>195</i>	<i>204</i>				<i>40</i>	<i>80</i>
Between Stake No. <i>220</i>	<i>7.5</i>		<i>23.0</i>	<i>198</i>	<i>204</i>			<i>40</i>	<i>80</i>	
and Stake No. <i>221</i>	<i>9.2</i>		<i>26.4</i>	<i>264</i>	<i>245</i>			<i>49</i>	<i>00</i>	
Between Stake No. <i>222</i>	<i>7.4</i>		<i>22.8</i>	<i>270</i>	<i>234</i>			<i>46</i>	<i>80</i>	
and Stake No. <i>223</i>	<i>6.8</i>		<i>21.6</i>	<i>201</i>	<i>196</i>			<i>39</i>	<i>20</i>	
Between Stake No. <i>224</i>	<i>9.4</i>		<i>26.8</i>	<i>256</i>	<i>233</i>			<i>46</i>	<i>60</i>	
and Stake No. <i>225</i>	<i>7.7</i>		<i>23.4</i>	<i>267</i>	<i>260</i>			<i>52</i>	<i>00</i>	
Between Stake No. <i>226</i>	<i>7.8</i>		<i>23.6</i>	<i>220</i>	<i>232</i>			<i>46</i>	<i>40</i>	
and Stake No. <i>227</i>	<i>7.1</i>		<i>22.2</i>	<i>214</i>	<i>213</i>			<i>42</i>	<i>60</i>	
Between Stake No. <i>228</i>	<i>7.2</i>		<i>22.4</i>	<i>187</i>	<i>214</i>			<i>42</i>	<i>80</i>	
and Stake No. <i>229</i>	<i>7.3</i>		<i>22.6</i>	<i>211</i>	<i>199</i>			<i>39</i>	<i>80</i>	
Between Stake No. <i>230</i>	<i>7.2</i>		<i>22.4</i>	<i>205</i>	<i>205</i>			<i>41</i>	<i>00</i>	
and Stake No. <i>231</i>	<i>7.1</i>		<i>22.2</i>	<i>173</i>	<i>228</i>			<i>43</i>	<i>60</i>	
Between Stake No. <i>232</i>	<i>7.1</i>		<i>22.2</i>	<i>167</i>	<i>230</i>			<i>46</i>	<i>00</i>	
and Stake No. <i>233</i>	<i>6.7</i>		<i>21.4</i>	<i>158</i>	<i>223</i>			<i>44</i>	<i>60</i>	
Between Stake No. <i>234</i>	<i>6.9</i>		<i>21.8</i>	<i>154</i>	<i>219</i>			<i>43</i>	<i>80</i>	
and Stake No. <i>235</i>	<i>7.0</i>		<i>22.0</i>	<i>187</i>	<i>198</i>			<i>39</i>	<i>60</i>	
Between Stake No. <i>236</i>	<i>7.1</i>		<i>22.2</i>	<i>213</i>	<i>180</i>			<i>36</i>	<i>00</i>	
and Stake No. <i>237</i>	<i>7.1</i>		<i>2</i>	<i>192</i>	<i>205</i>			<i>41</i>	<i>00</i>	
				<i>4338</i>				<i>867.60</i>		

Total Estimated Cost of Whole Work, \$.....

EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS

Showing Estimated Depth of Cut, Width, No. of Cubic Yards Removed and Cost of Same, in Repairs County Ditch No. 41

SECTION	(1) DEPTH OF CUT	(2) WIDTH OF CUT AT BOTTOM	(3) WIDTH OF CUT AT TOP	(4) Cuyds.		(5)		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section	(7) Total Estimated Cost per Section		
				No. OF CUBIC YARDS TO BE REMOVED <i>Old Ditch.</i>	<i>To be Excav</i>	Estimated Cost Per Cubic Yard			\$	CTS.	\$
Between Stake No. <u>238</u>	<u>7.2</u>	<u>8.0'</u>	<u>22.4</u>	<u>170</u>	<u>231</u>	<u>20</u>				<u>46</u>	<u>20</u>
and Stake No. <u>239</u>	<u>7.2</u>		<u>22.4</u>	<u>182</u>	<u>223</u>					<u>44</u>	<u>60</u>
Between Stake No. <u>240</u>	<u>6.7</u>		<u>21.4</u>	<u>187</u>	<u>198</u>					<u>39</u>	<u>60</u>
and Stake No. <u>241</u>	<u>6.7</u>		<u>21.4</u>	<u>171</u>	<u>194</u>					<u>38</u>	<u>80</u>
Between Stake No. <u>242</u>	<u>7.2</u>		<u>22.4</u>	<u>211</u>	<u>174</u>					<u>34</u>	<u>80</u>
and Stake No. <u>243</u>	<u>8.1</u>		<u>24.2</u>	<u>270</u>	<u>174</u>					<u>34</u>	<u>80</u>
Between Stake No. <u>244</u>	<u>7.3</u>		<u>22.6</u>	<u>259</u>	<u>189</u>					<u>37</u>	<u>80</u>
and Stake No. <u>245</u>	<u>7.3</u>		<u>22.6</u>	<u>242</u>	<u>172</u>					<u>34</u>	<u>40</u>
Between Stake No. <u>246</u>	<u>7.0</u>		<u>22.0</u>	<u>231</u>	<u>170</u>					<u>34</u>	<u>00</u>
and Stake No. <u>247</u>	<u>6.5</u>		<u>21.0</u>	<u>207</u>	<u>152</u>					<u>30</u>	<u>40</u>
Between Stake No. <u>248</u>	<u>8.3</u>		<u>24.6</u>	<u>267</u>	<u>158</u>					<u>31</u>	<u>60</u>
and Stake No. <u>249</u>	<u>7.8</u>		<u>23.6</u>	<u>307</u>	<u>172</u>					<u>34</u>	<u>40</u>
Between Stake No. <u>250</u>	<u>8.2</u>		<u>24.4</u>	<u>285</u>	<u>189</u>					<u>37</u>	<u>80</u>
and Stake No. <u>251</u>	<u>8.1</u>		<u>24.2</u>	<u>337</u>	<u>150</u>					<u>30</u>	<u>00</u>
Between Stake No. <u>252</u>	<u>7.2</u>		<u>22.4</u>	<u>324</u>	<u>120</u>					<u>24</u>	<u>00</u>
and Stake No. <u>253</u>	<u>7.4</u>		<u>22.8</u>	<u>266</u>	<u>148</u>					<u>29</u>	<u>60</u>
Between Stake No. <u>254</u>	<u>7.5</u>		<u>23.0</u>	<u>310</u>	<u>116</u>					<u>23</u>	<u>20</u>
and Stake No. <u>255</u>	<u>7.5</u>		<u>23.0</u>	<u>337</u>	<u>94</u>					<u>18</u>	<u>80</u>
Between Stake No. <u>256</u>	<u>5.3</u>		<u>18.6</u>	<u>214</u>	<u>132</u>					<u>26</u>	<u>40</u>
and Stake No. <u>257</u>	<u>7.8</u>		<u>23.6</u>	<u>225</u>	<u>134</u>					<u>26</u>	<u>80</u>
					<u>3290</u>						<u>658.00</u>

Total Estimated Cost of Whole Work, \$.....

EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS

Showing Estimated Depth of Cut, Width, No. of Cubic Yards Removed and Cost of Same, in Repairs County Ditch No. 41

SECTION	(1) DEPTH OF CUT	(2) WIDTH OF CUT AT BOTTOM	(3) WIDTH OF CUT AT TOP	(4) Cuyds		(5) Estimated Cost Per Cubic Yard \$ CTS.	(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section		(7) Total Estimated Cost per Section		
				No. OF CUBIC YARDS TO BE REMOVED <i>Old Ditch</i>	<i>Excav</i>		\$	CTS.	\$	CTS.	\$
Between Stake No. 258	11.4	8.0	30.8	507	131					26 20	
and Stake No. 259	13.4		34.8	846	95					19 00	
Between Stake No. 260	10.4		28.8	812	73					14 60	
and Stake No. 261	8.4		24.8	486	124					24 80	
Between Stake No. 262	6.9		21.8	316	130					26 00	
and Stake No. 263	6.7		21.4	237	136					27 20	
Between Stake No. 264	6.5		21.0	220	137					27 40	
and Stake No. 265	5.9		19.8	209	117					23 40	
Between Stake No. 266	6.1		20.2	192	119					23 80	
and Stake No. 267	6.0		20.0	202	113					22 60	
Between Stake No. 268	6.0		20.0	189	122					24 40	
and Stake No. 269	6.0		20.0	173	138					27 60	
Between Stake No. 270	6.2		20.4	194	125					25 00	
and Stake No. 271	6.1		20.2	191	131					26 20	
Between Stake No. 272	8.0		24.0	228	168					33 60	
and Stake No. 273	7.7		23.4	308	153					30 60	
Between Stake No. 274	6.1		20.2	278	105					21 00	
and Stake No. 275	6.2		20.4	248	74					14 80	
Between Stake No. 276	7.4		22.8	301	73					14 60	
and Stake No. 277	6.2		20.4	320	54					10 80	
				2318							463.60

Total Estimated Cost of Whole Work, \$.....

EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS

Showing Estimated Depth of Cut, Width, No. of Cubic Yards Removed and Cost of Same, in Repairs County Ditch No. 41

SECTION	(1) DEPTH OF CUT	(2) WIDTH OF CUT AT BOTTOM	(3) WIDTH OF CUT AT TOP	(4) Cuyds. No. OF CUBIC YARDS TO BE REMOVED		(5) Estimated Cost Per Cubic Yard		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section			(7) Total Estimated Cost per Section	
				Old Ditch	Excav	\$	CTS.	\$	CTS.	\$	CTS.	
Between Stake No. 278	5.9	8.0'	19.8	250	65		20				13	00
and Stake No. 279	6.0		20.0	194	113						22	60
Between Stake No. 280	6.1		20.2	202	113						22	60
and Stake No. 281	5.9		19.8	216	95						19	00
Between Stake No. 282	5.7		19.4	205	91						18	20
and Stake No. 283	4.8		17.6	164	95						19	00
Between Stake No. 284	4.3		16.6	130	82						16	40
and Stake No. 285	4.9		17.8	132	83						16	60
Between Stake No. 285	4.4	9.0'	16.8	132	86						17	20
and Stake No. 286	4.3		17.6	134	73						14	60
and Stake No. 287	4.2		17.4	121	88						17	60
Between Stake No. 288	3.9		16.8	133	63						12	60
and Stake No. 289	4.2		17.4	133	63						12	60
Between Stake No. 290	3.8		16.6	120	73						14	60
and Stake No. 291	4.2		17.4	132	61						12	20
Between Stake No. 292	3.6		16.2	128	59						11	80
and Stake No. 293	3.9		16.8	110	67						13	40
Between Stake No. 294	4.4		17.8	117	85						17	00
and Stake No. 295	3.5		16.0	120	70						14	00
Between Stake No. 296	3.5		16.0	112	50						10	00
and Stake No. 297	3.1		15.2	94	56						11	20
				1631							326.20	

Total Estimated Cost of Whole Work, \$.....