



# PLANS DITCH NO. 17 YELLOW MEDICINE RIVER WATERSHED DISTRICT MINNESOTA

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### ESTIMATED QUANTITIES

OPEN DITCH								CLEARING AND GRUBBING						
BRANCH	STA.	TO STA.	LENGTH	BOTTOM	CUBIC YARDS	SEEDING - ACRES		BRANCH	SECTION	TWP	RANGE	TREES	OPEN DITCH STUMPS	TILE LINES
MAIN	0+33	78+33	7,800'	4'	49,496	10.6	5.9	MAIN	31	111N.	45W	12		
								MAIN	6	110N.	45W	659	3	
								4	31	111N.	45W			4
TOTAL												671	3	4

  

OUTLET PIPE				TILE WORK				HIGHWAY CULVERTS			
NUMBER	TOTAL LENGTH	SIZE	TYPE	SIZE	LENGTH	AVE. DEPTH	INLETS	NUMBER	TOTAL LENGTH	SIZE	TYPE
2	40'	21"	CM 16	20"	860'	5.0'		1 REMOVE	24'	48"	CMP
1	20'	15"	CM 16	18"	600'	5.6'	20-8"	1	62'	48"	SCII
1	20'	12"	CM 16	16"	1,200'	5.3'	2-6"	WITH MECHANICAL COMPACTION			
1	20'	10"	CM 16	* 15" SC	56'	8.1'		CULVERTS			
INCLUDES FLAPGATES				* 14"	744'	7.0'		NUMBER	TOTAL LENGTH	SIZE	TYPE
				* 12" SC	90'	9.5'		1	36'	42" X 29"	C.M.14
				* 10"	2,806'	4.9'		1	36'	24"	C.M.16
				* 8"	1,981'	6.0'		2	72'	21"	C.M.16
				TOTAL	10,774'			1	36'	15"	C.M.16
				* WITH MECHANICAL COMPACTION							

- Revised July 2, 1987*
- RURAL WATER MAINS
  - EXISTING OPEN DITCH
  - PROPOSED OPEN DITCH
  - CULVERTS THRU WASTEBANKS
  - X PRIVATE CROSSING
  - - - EXISTING TILE LINES
  - - - PROPOSED COUNTY TILE
  - TILE INLETS
  - EXTERIOR WATERSHED
  - INTERIOR WATERSHED
  - ENERGY LINES OR UNDERGROUND CABLES
  - - - TELEPHONE LINES OR UNDERGROUND CABLES

SCALE - 1" = 660'

CHAMBERLAIN ENGINEERING COMPANY, MONTEVIDEO, MINNESOTA

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer in the State of Minnesota.	MAPPING	C.W. 12-83	DESIGN	
	PRELIM. SURVEY	L.T. 6-84	DRAFTING	
	DESIGN	T.L.C. 9-84	REVISED	
	DRAFTING	S.O. 8-84	CONST. SURVEY	
	FINAL SURVEY		CORRECTED PLAN	

DITCH NO. 17  
YELLOW MEDICINE RIVER WATERSHED DISTRICT, MINNESOTA

PLAT, INDEX & ESTIMATED QUANTITIES *Revised July 2, 1987* SHEET NO. 1