

MINNESOTA DRAIN
INTERIM DESIGN
(W/O DETENTION) **

PROJECT COST ESTIMATE

ITEM DESCRIPTION	COST	
MINNESOTA DRAIN LENGTH OF PROJECT = 1.25 MILES		
PROJECT ESTIMATED CONSTRUCTION COST		\$663,718.00
BASIC SERVICES FEE		
Engineering Services Fee (8% of Construction Cost)	\$53,097.44	
Topographic Survey Services Fee (2.5% of Construction Cost)	\$16,592.95	
Basic Fee (Prelim Eng, Design & Construction Services Fee)	\$69,680.39	
RIGHT-OF-WAY SERVICES COST (Add'l Service):		
Obtain Title Reports (Est 16 Parcels @ \$600.00/Parcel)	\$9,600.00	
Develop Parcels & R.O.W. Map (Est 16 Parcels @ \$2,200.00/Parcel)	\$35,200.00	
R.O.W. Map Services Fee	\$44,800.00	
GEOTECHNICAL INVESTIGATION (Add'l Services)		
Geotechnical Services	\$8,000.00	
Geotechnical Investigations Services Fee	\$8,000.00	
TOTAL PROJECT PROFESSIONAL SERVICES COST		\$122,490.39

TOTAL PROJECT ESTIMATED COST		
ESTIMATED CONSTRUCTION COST	\$663,718.00	
PROFESSIONAL SERVICES COST	\$122,490.39	
R.O.W. ACQUISITION COST (Est. 9 Ac @ \$20,000/Ac)	\$180,000.00	
EASEMENT ACQUISITION COST (Est. 50,000 SF @ \$2.00/SF)	\$100,000.00	
APPRAISAL REPORTS (@ \$2,500.00 per Parcel)	\$40,000.00	
REVIEW APPRAISALS (@ \$600.00 per Parcel)	\$9,600.00	
CLOSING COSTS (@ \$600.00 per Parcel)	\$9,600.00	
MISCELLANEOUS LEGAL COSTS	\$10,000.00	
TOTAL PROJECT COST		\$1,135,408.39

R. Gutierrez Engineering Corporation**Statement of Probable Cost**

Description: Minnesota Drain - Interim w/o Detention **

Project: Eng09.001

By: R.G.

Date: 5-Jan-11

ITEM NO.	DESCRIPTION	UNIT	UNIT COST	ESTIMATED QUANTITY	TOTAL COST
	I. DRAIN DITCH				
1	Ditch Excavation	CY	\$2.50	58,305	\$145,762.50
2	Ditch Fill	CY	\$2.50	27,009	\$67,522.50
3	Detention Pond Excavation	CY	\$2.50	0	\$0.00
4	7x5' CONC BOX CULVERT	LF	\$280.00	156	\$40,560.00
5	7x6' CONC BOX CULVERT	LF	\$270.00	156	\$42,120.00
6	3'X3' CONC BOX CULVERT	LF	\$125.00	138	\$17,250.00
7	42" R.C.P. CULVERT	LF	\$55.00	2,714	\$149,270.00
8	36" R.C.P. CULVERT	LF	\$44.00	448	\$19,712.00
9	30" R.C.P. CULVERT	LF	\$32.00	619	\$19,808.00
10	24" R.C.P. CULVERT	LF	\$26.00	602	\$15,652.00
11	18" R.C.P. CULVERT	LF	\$20.00	392	\$7,840.00
12	MANHOLE (TY A1)	EA	\$2,400.00	4	\$9,600.00
13	TYPE "C" INLET	EA	\$2,000.00	11	\$22,000.00
14	Concrete Riprap	CY	\$320.00	77	\$24,640.00
15	Concrete Wingwall (H=6 FT)	EA	\$3,200.00	2	\$6,400.00
16	Concrete Wingwall (H=5 FT)	EA	\$3,000.00	2	\$6,000.00
17	Concrete Wingwall (H=3 FT)	EA	\$2,400.00	1	\$2,400.00
18	Trench Safety Protection	LF	\$1.50	4,562	\$6,843.00
DRAIN DITCH SUB-TOTAL :					\$803,380.00
GRAND TOTAL :					\$803,380.00
10% CONTINGENCY :					\$80,338.00
TOTAL PROBABLE CONSTRUCTION COST :					\$883,718.00

** Note: Drain ditch design without detention will not handle a 2-year design frequency storm and may cause water to be backed up in the streets within the subdivisions and low-lying areas being serviced by this ditch.