

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	BID QUANT.	FINAL QUANT.
1	Excavating, Trenching & Backfilling			
	a. Gravel Backfill	TON	200	0
	b. Subcut Gravel	TON	400	637
2	Sanitary Sewer			
	a. 6" PVC Pipe	LF	60	575
	b. 8" PVC Pipe	LF	550	598
	c. 24" PVC Pipe	LF	1,500	1454.3
	d. 24" DI Pipe	LF	50	375
3	Sanitary Manholes			
	a. Type A	EA	7	8
	b. Type B	EA	5	4
	c. Type C	EA	1	1
	d. Type D	EA	1	1
4	Storm Sewer			
	a. 15" R.C. Pipe Class III	LF	54	52
5	Catch Basins			
	a. Type A	LS	1	1
	b. Type B	LS	2	2
6	Forcemain, Fittings, and Valves			
	a. 12" DI Pipe	LF	150	141.83
	b. 16" DI Pipe	LF	16	10.33
	c. 12" Plug Valve w/Valve Box	EA	3	3
	d. Cast Iron Fittings	LBS	4,814	3720
7	16" Steel Couplings - 7" Long	EA	4	4
8	Pumping Station	LS	1	1
9	Water Service Connection			
	a. 1" Copper Pipe	LF	55	55
	b. 8"x1" Tapping Saddle and Corporation Cock	EA	1	1
	c. Curb Stop & Box	EA	1	1
10	Sewer Service Connection	EA	1	0
11	6" Watermain Lowering	EA	2	0
12	Clearing and Grubbing	LS	1	1
13	Sewer Removal			
	a. 8" Pipe	LF	120	123
	b. 24" Pipe	LF	1,450	1437
14	Rock Excavation	CY	70	32.63
15	Remove & Replace Sidewalk or Driveway			
	a. 4"	SF	500	6197
	b. 6"	SF	200	966.5
16	Remove & Replace 5" Asphalt	SY	1,100	1251
17	Separation of Storm Sewer Structure	LS	1	1
18	Embankment			
	a. Embankment	LS	1	1
	b. Borrow	CY	300	0
19	Remove and Replace Trees and Shrubs			
	a. Arborvitae	EA	5	0
	b. Flowering Crab	EA	1	0
20	6" Concrete Sidewalk	SF	110	106
21	Seeding	Acre	0.5	2.36
22	Sodding	SY	1,525	3287
23	Asphalt Pavement			
	a. 4" Base Course	TON	135	9723
	b. 2" Wearing Course	TON	68	68.39
	c. Seal Coat & Chips	SY	675	639

CERTIFICATES

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NORTH DAKOTA.



Scott E. Olson
DATE: July 20, 1984 REG. NO. 2518

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NORTH DAKOTA.



Raymond Rabe
DATE: May 25, 1984 REG. NO. 785

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NORTH DAKOTA.



R. M. Grogan
DATE: Aug 24, 1984 REG. NO. 1670

LEGEND

- SPOT ELEVATION (e.g. = EDGE ASPHALT, i.c. = TOP OF CURB OR CONCRETE)
- PROPOSED ELEVATION
- SURVEY STATION
- EXISTING BUILDING
- EASEMENT LINE
- PROPOSED GRAVITY SEWER LINE
- PROPOSED FORCEMAIN
- PROPOSED STORM SEWER LINE
- PROPOSED WATERLINE
- GAS METER
- UTILITY BOXES (POWER, CABLE T.V., TELEPHONE)
- VALVE
- FIRE HYDRANT
- MANHOLE
- STREET LIGHT
- POWER POLE
- TREE (NUMBER DENOTES TRUNK DIAMETER)
- CATCH BASIN
- FENCE LINE
- POWERLINE (U.G. = UNDERGROUND, O.H. = OVERHEAD)
- BORING LOCATION
- PROPOSED ASPHALT
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE

SHEET INDEX

GENERAL	SHEET No.
QUANTITY AND INDEX SHEET	G-1
LOCATION MAP	G-2

MASTER PUMPING STATION	SHEET No.
CIVIL	
SITE PLAN	C-1
ACCESS ROAD AND GRADING PLAN	C-2

ARCHITECTURAL	SHEET No.
FLOOR PLAN AT ELEV. 1641.00	A-1
ROOF PLAN	A-2
SECTION AND ELEVATION VIEWS	A-3

STRUCTURAL	SHEET No.
WALL SECTIONS AND STRUCTURAL DETAILS	S-1
WETWELL STRUCTURAL PLAN	S-2
STRUCTURAL FLOOR PLAN AT ELEV. 1625.00	S-3
STRUCTURAL FLOOR PLAN AT ELEV. 1641.00	S-4

MECHANICAL	SHEET No.
WETWELL MECHANICAL AND TRASH BASKET DETAIL	M-1
PUMP FLOOR MECHANICAL AND STAIR DETAIL	M-2
MECHANICAL FLOOR PLAN	M-3

ELECTRICAL	SHEET No.
ELECTRICAL SITE PLAN & LEGEND	E-1
EXISTING ELECTRICAL FLOOR PLAN	E-2
ELECTRICAL FLOOR PLAN	E-3
ELECTRICAL DIAGRAM	E-4
ELECTRICAL DIAGRAMS	E-5

INTERCEPTOR REPLACEMENT	SHEET No.
STATION 0+00 TO 5+00	R-1
STATION 5+00 TO 10+00	R-2
STATION 10+00 TO 14+45	R-3
6th ST. N.W.	R-4

DETAIL SHEETS	SHEET No.
DETAILS	D-1
SEPARATION OF STORM SEWER STRUCTURE	D-2

APPROVED BY: *Thomas Little*
MANDAN CITY ENGINEER

PHASE III

REV.	DATE	DESCRIPTION	BY

MANDAN INTERCEPTOR 1984
MANDAN, NORTH DAKOTA

QUANTITY & INDEX

ULTEIG ENGINEERS, INC. CONSULTING ENGINEERS • ARCHITECT
FARGO • BISMARCK • MINNEAPOLIS

DRAWN BY: *D.J.M.* SCALE: PROJECT NO. 4241
CHECKED BY: *S.D.* DATE: MAY 1984 SHEET G-1 of 1
APPROVED BY: *R.K.*

Record Drawing