

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	BID QUANT.	FINAL QUANT.
1	EXCAVATING, TRENCHING AND BACKFILLING			
	a. ENCASEMENT GRAVEL	TON	1,800	1,432
	b. GRAVEL BACKFILL	TON	1,000	0
	c. SUBCUT GRAVEL	TON	100	0
2	SANITARY SEWER PIPE			
	a. 15" PVC	LF	110	112
	b. 12" PVC	LF	375	360
	c. 10" PVC	LF	1,200	1,164
3	SANITARY MANHOLES	EA	7	7
4	AIR RELEASE MANHOLE	EA	2	2
5	REMOVE AND REPLACE ASPHALT			
	a. 5" DEPTH	SY	420	701
	b. 3" DEPTH	SY	480	0
6	ROCK EXCAVATION	CY	130	105.3
7	SEEDING	AC	5.0	4.3
8	REMOVE AND REPLACE CURB & GUTTER	LF	140	71.5
9	FORCEMAIN			
	a. 4" D.I. FORCEMAIN	LF	30	10
	b. 8" D.I. FORCEMAIN	LF	130	132
	c. 8" PVC FORCEMAIN	LF	40	74
	d. 10" PVC FORCEMAIN	LF	5,480	5,452.6
	e. 10" D.I. FORCEMAIN	LF	52	28
	f. 24" D.I. FORCEMAIN	LF	30	16.75
10	CAST IRON FITTINGS	LBS	5,600	6,088
11	VALVES			
	a. 8" PLUG VALVE WITH BOX	EA	1	1
	b. 10" PLUG VALVE WITH BOX	EA	3	3
	c. 24" BUTTERFLY VALVE WITH BOX	EA	2	2
12	PUMP STATIONS			
	a. PUMP STATION NO. 2	LS	--	--
	b. PUMP STATION NO. 6	LS	--	--
	c. PUMP STATION NO. 12	LS	--	--
	d. PUMP STATION AT WASTEWATER TREATMENT PLANT	LS	--	--
13	VALVE VAULT			
	a. PUMP STATION NO. 2	LS	--	--
	b. PUMP STATION NO. 12	LS	--	--
14	DEMOLITION OF PUMP STATIONS			
	a. NO. 2	LS	--	--
	b. NO. 6	LS	--	--
	c. NO. 13	LS	--	--
15	DEMOLITION OF VALVE VAULT			
	a. NO. 12	LS	--	--
16	ROAD GRAVEL	SY	2,080	2,084
17	REMOVE SEWER PIPE	LF	300	294
18	24" TRANSITION FITTINGS	EA	2	2
19	MONITOR AND ALARM SYSTEM	LS	--	--

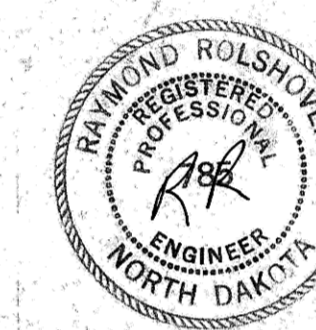
INDEX

SHT. NO.	DESCRIPTION
1	QUANTITY & INDEX
2	LOCATION MAP
3	LIFT STATION #2
4	LIFT STATION #6
5	LIFT STATION AT TREATMENT PLANT
6	NEW LIFT STATION #12
7 & 8	37TH STREET NW - 33RD AVENUE NW TO 30TH AVENUE NW
9	30TH AVENUE NW
10 & 11	ALLEY - MANDAN INDUSTRIAL PARK
12	37TH STREET NW STA. 22+00 TO OLD RED TRAIL
13-16	OLD RED TRAIL - 37TH STREET NW TO STA. 56+09
17	DETAIL SHEET
18	ELECTRICAL LAYOUTS & DETAILS
19	ELECTRICAL DETAILS
20	ELECTRICAL DIAGRAMS

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 R. Ralston

DATE March 6, 1984 REG. NO. 735



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. Olsen

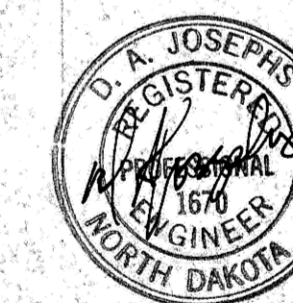
DATE March 6, 1984 REG. NO. 2518



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.

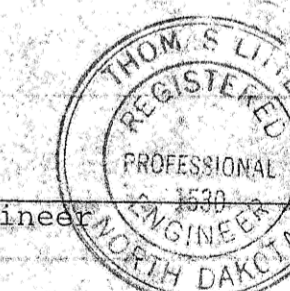
D. A. Josephs

DATE March 6, 1984 REG. NO. 1670



Approved By *Thomas L. Lyle*

Mandan City Engineer



Record Drawing

PHASE 2

REV	DATE	DESCRIPTION	BY

MANDAN INTERCEPTOR 1983 MANDAN, NORTH DAKOTA		
QUANTITY AND INDEX		
ULTEIG ENGINEERS, INC. CONSULTING ENGINEERS • ARCHITECT FARGO • BISMARCK • MINNEAPOLIS	PROJECT NO. 4160.01	
DRAWN BY: <i>T.R.</i>	SCALE	
CHECKED BY: <i>SD</i>	DATE: <u>MARCH 1984</u>	
APPROVED BY: <i>RR</i>	SHEET <u>1</u> of <u>20</u>	