NOTE: Contractor to field verify location of all underground utilities prior to construction.

℄ OLD RED TRAIL
CURVE DATA
Δ = 28°06'44"
D = 4°00'00"
R = 1432.39
T = 356.63
L = 702.80

TELE. PED
T-V PED.

OLD RED TRAIL

INSTALL 160' 10" FORCEMAIN

10" SAN. S.

5" F.M.

SURVEY ℄

R/W

MATCH LINE STA. 49+50

STA. 49+50, 11.6' Lt.

50+00

51+00

52+00

53+00

P.C. OF CURVE

EXIST. TRANSITION M.H.
FORCEMAIN TO GRAVITY
(BEEHIVE GRATE COVER)
STA. 51+10.6, 6.3' Lt.
N. RIM 1996.02
S. INV. 1986.71
N. INV. 1988.70

M.H.
STA. 53+27, 32' Lt.
N. RIM 1993.03
N. INV. 1983.20
S. INV. ~~1983.19~~ 1983.04

REMOVE EXIST. 10" SEWER
INSTALL 294 L.F. 12" P.V.C. @ 0.847% 0.796

BREAK NEW 12" SEWER PIPE INTO EXISTING MANHOLE. SEAL WITH GROUT. (INCIDENTAL TO PROJECT)

M.H.
N. RIM 1979.53
W. INV. 1970.67

M.H. STA. 56+09, 112' Lt.
N. RIM 1990.11
N.W. INV. 1980.70
S.E. INV. 1980.56

10" SAN. S @ 3.296 %

SUNVIEW HEIGHTS

N.

0 15' 30' 60'

STA. 51+07, 11' Lt.
INSTALL 10", 1/8 BEND

STA. 51+10.6, 6.3' Lt.
BREAK NEW 10" FORCEMAIN INTO EXIST. M.H. SEAL WITH GROUT. (INCIDENTAL TO PROJECT)

SUMMARY OF QUANTITIES	
10" P.V.C. FORCEMAIN	160 L.F.
12" P.V.C. SEWER PIPE	294 L.F.
10" 1/8 BEND	1 Ea.
SEEDING	0.3 AC.
REMOVE SEWER PIPE	294 L.F.

RAYMOND ROLSHOVEN REGISTERED PROFESSIONAL ENGINEER NORTH DAKOTA

RR

B.M. 1996.02 N. RIM OF TRANSITION MANHOLE AT STA 51+10.6, 6.3' Lt.

EXISTING M.H. STA. 53+27, 32' Lt.

EXISTING M.H. STA. 56+09, 112' Lt.

EXISTING PROFILE

160 L.F. 10" P.V.C. FORCEMAIN

INV. 1986.80

INV. ~~1988.00~~ 1987.89

EXISTING M.H. STA. 51+10.6, 6.3' Lt.

EXISTING 10" P.V.C. @ 1.610%

INV. S. ~~1983.19~~ 1983.04

294 L.F. 12" P.V.C. @ ~~0.847%~~ 0.796%

INV. N.W. 1980.70

1996 1994 1992 1990 1988 1986 1984 1982 1980

49+50 50+00 51+00 52+00 53+00

Record Drawing

PHASE 2

REV.	DATE	DESCRIPTION	BY
△			
△			
△			
△			

MANDAN INTERCEPTOR 1983
MANDAN, NORTH DAKOTA

OLD RED TRAIL
STA. 49+50 to STA. 56+09

ULTEIG ENGINEERS, INC. FARGO-BISMARCK-MINNEAPOLIS

DRAWN BY: D.J.M.
CHECKED BY: RR
APPROVED BY: RR

SCALE: AS SHOWN
DATE: AUGUST 1983

PROJECT NO. 4160.01

SHEET 16 of 20

ULTEIG ENGINEERS