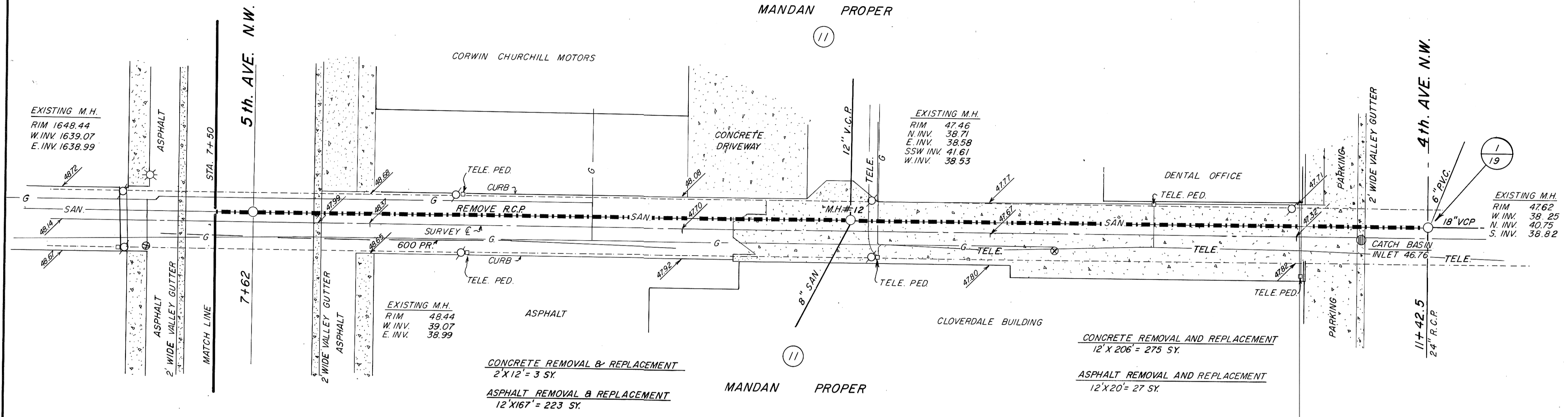
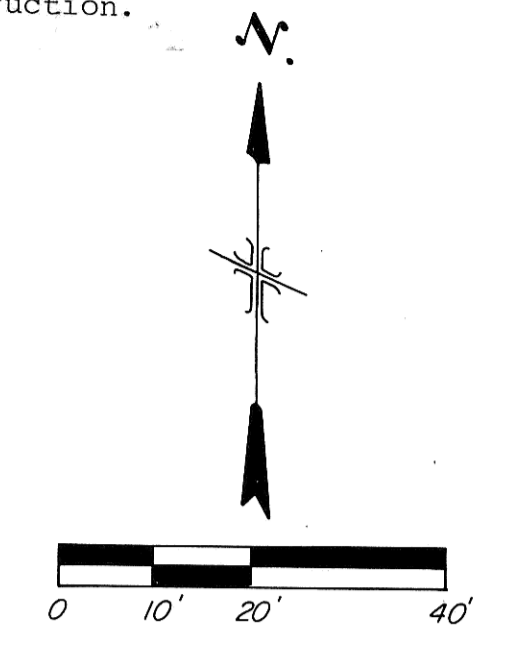


NOTE: CONTRACTOR SHALL CLEAN AND TELEWISE THE EXISTING 18" V.C. PIPE TO DETERMINE SERVICE LINE SIZES AND LOCATIONS. THE SOUNDNESS OF THE PIPE MUST BE CHECKED TO DETERMINE STRUCTURAL CONDITION OF THE PIPE.

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



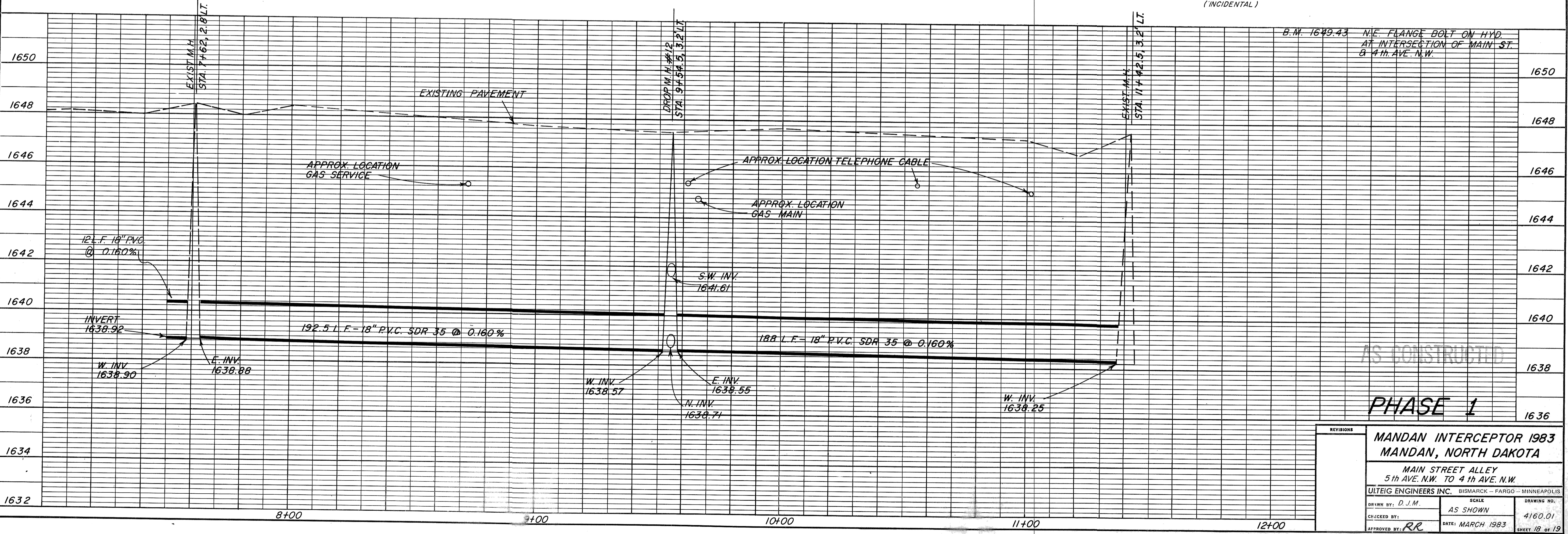
SUMMARY OF QUANTITIES	
18" P.V.C.	392.5 L.F.
DROP MANHOLE	1 EA.
ASPHALT REMOVAL AND REPLACEMENT	250 S.Y.
CONCRETE REMOVAL AND REPLACEMENT	279 S.Y.
RECONNECT SEWER SERVICES	4 EA.
4" SEWER SERVICE PIPE	12 L.F.
MANHOLE REWORK "C"	1 EA.
REMOVE SANITARY SEWER	392.5 L.F.
TELEWISE SEWER	393 L.F.



EXIST. M.H. STA. 7+62, 2.8' LT.
 REMOVE EXISTING 18" V.C. SEWER AND INSTALL 18" P.V.C. SEWER SEAL W/ GROUT AND FORM SMOOTH FLOW INVERT. (INCIDENTAL)

EXIST. M.H. STA. 9+54.5, 3.2' LT.
 REMOVE AND DISPOSE FRAME AND CASTING.
 REMOVE AND DISPOSE MANHOLE (BRICK)
 INSTALL NEW DROP MANHOLE W/ 6" P.V.C. DROP PIPE
 REMOVE EXISTING 18" V.C. SEWER AND INSTALL 18" P.V.C. SEWER.
 SEAL W/ GROUT (INCIDENTAL)

M.H. REWORK "C" STA. 11+42.5, 3.2' LT.
 BREAK OPENING IN MANHOLE FOR INSTALLATION OF 18" P.V.C.
 SEE SHEET #19 FOR MANHOLE MODIFICATIONS. DETAIL
 REMOVE 18" V.C. SEWER AND INSTALL 18" P.V.C. SEWER.
 SEAL W/ GROUT (INCIDENTAL)



B.M. 1649.43 N.E. FLANGE BOLT ON HYD. AT INTERSECTION OF MAIN ST. & 4th AVE. N.W.

AS CONSTRUCTED

PHASE 1

MANDAN INTERCEPTOR 1983 MANDAN, NORTH DAKOTA		
MAIN STREET ALLEY 5th AVE. N.W. TO 4th AVE. N.W.		
ULTEIG ENGINEERS INC. BISMARCK - FARGO - MINNEAPOLIS		
DRAWN BY: D.J.M. CHECKED BY: RR APPROVED BY: RR	SCALE: AS SHOWN DATE: MARCH 1983	DRAWING NO.: 4160.01 SHEET 18 OF 19