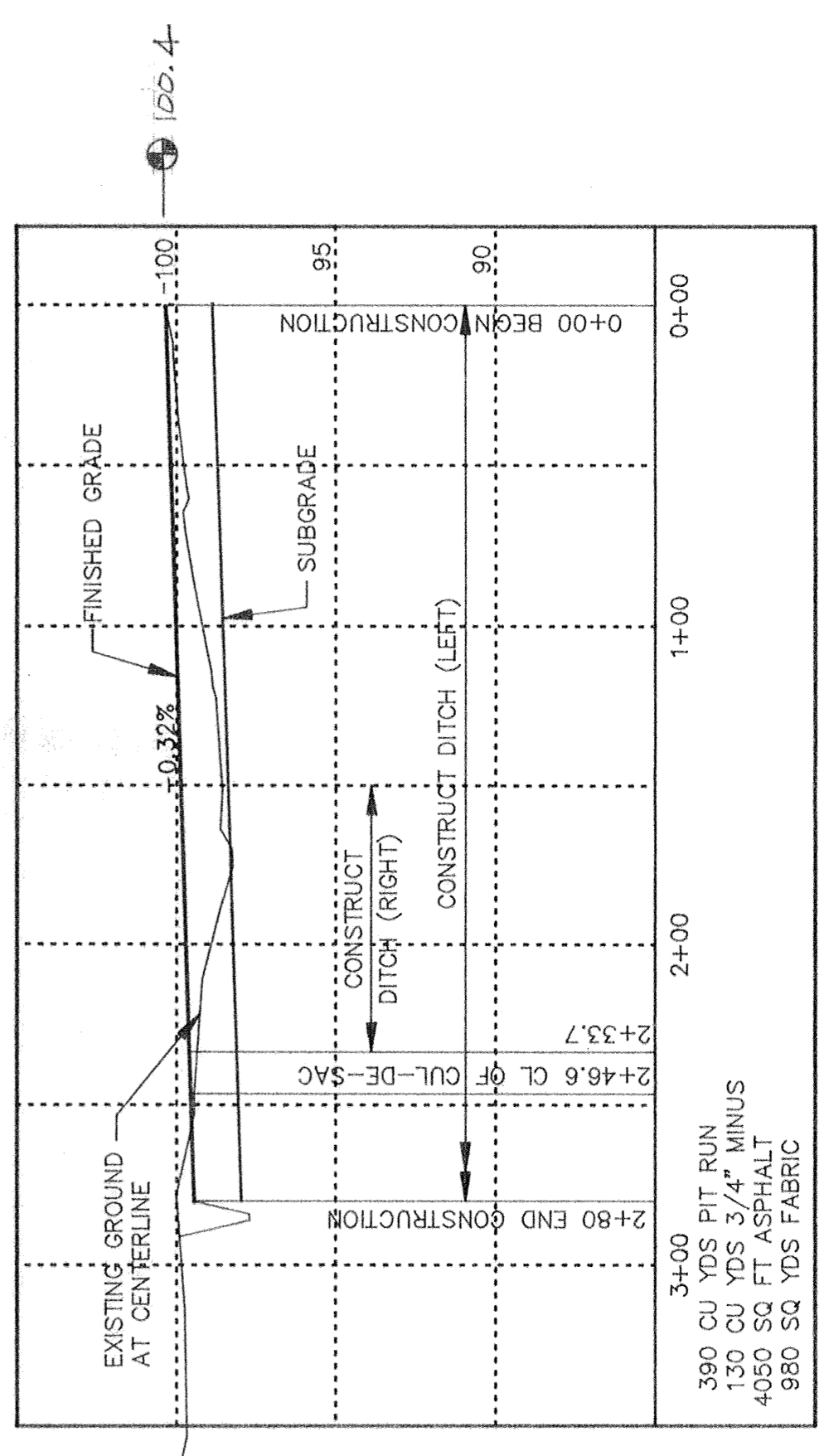
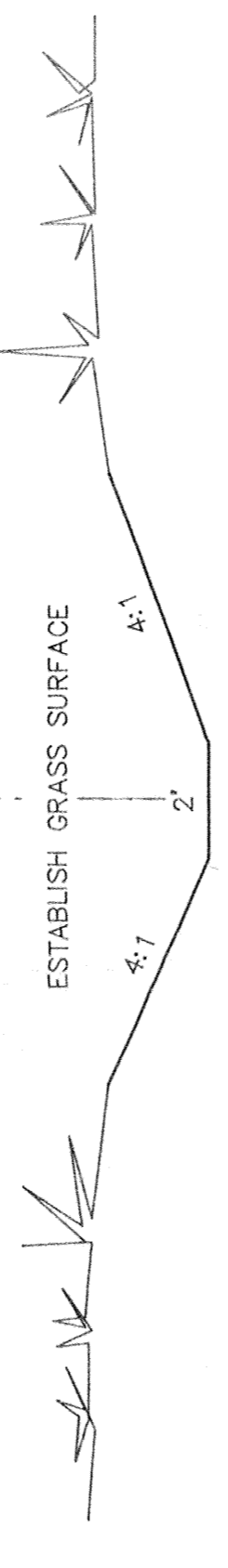
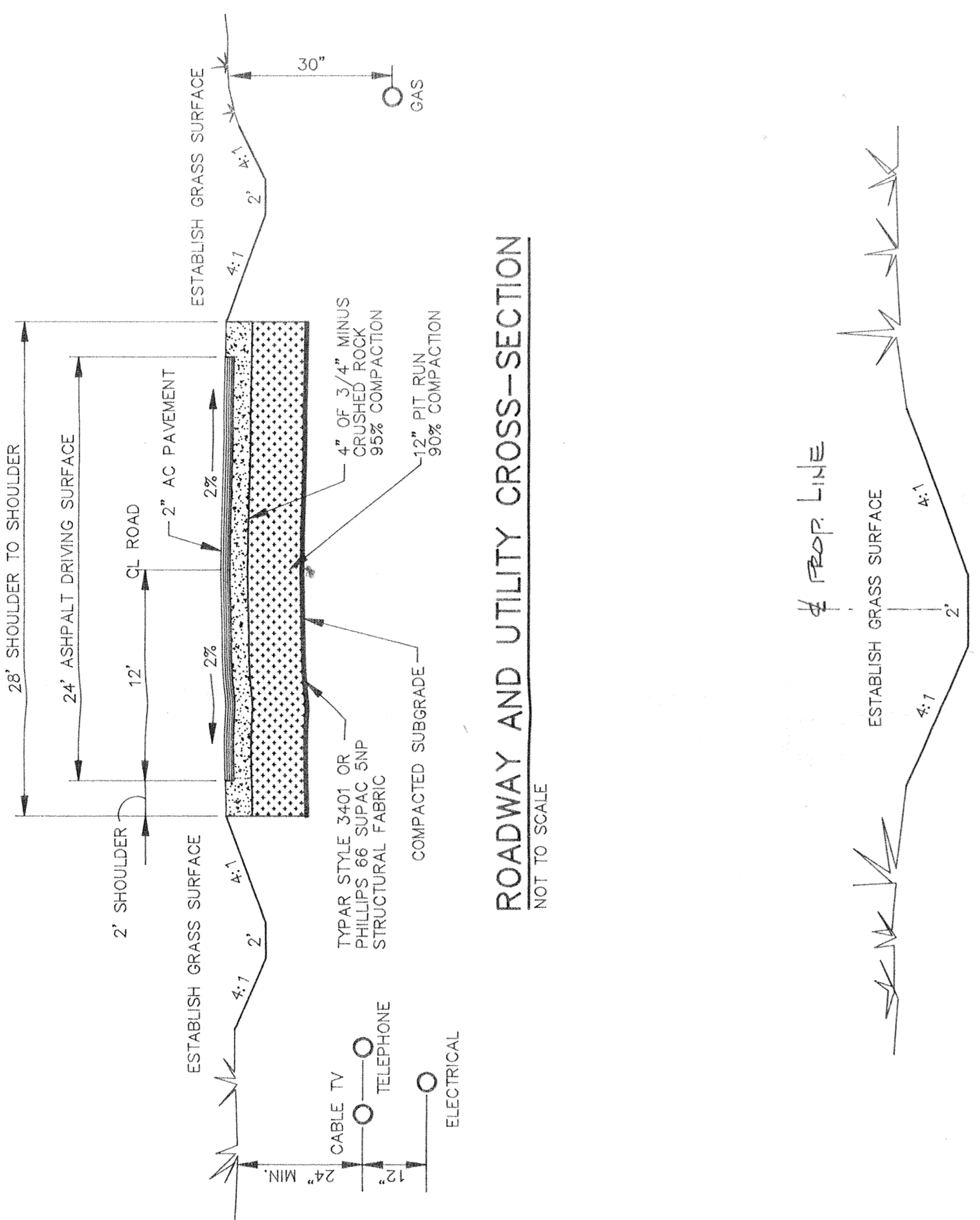
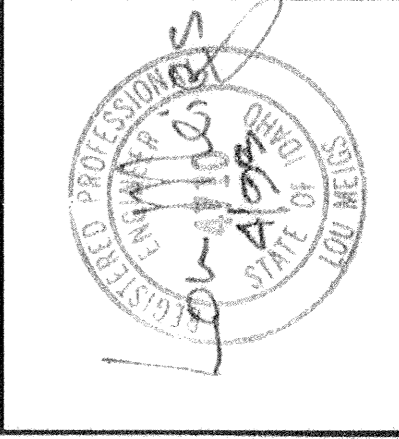


PLAN VIEW OF DRAINAGE AND ROAD
 SCALE: 1" = 50'



PROFILE OF ROAD
 SCALE: VERT. = 5', HORIZ. = 50'

REVISIONS:
 5-10-93 - REVISED DRAINAGE ALONG HIGHWAY
 RIGHT-OF-WAY.

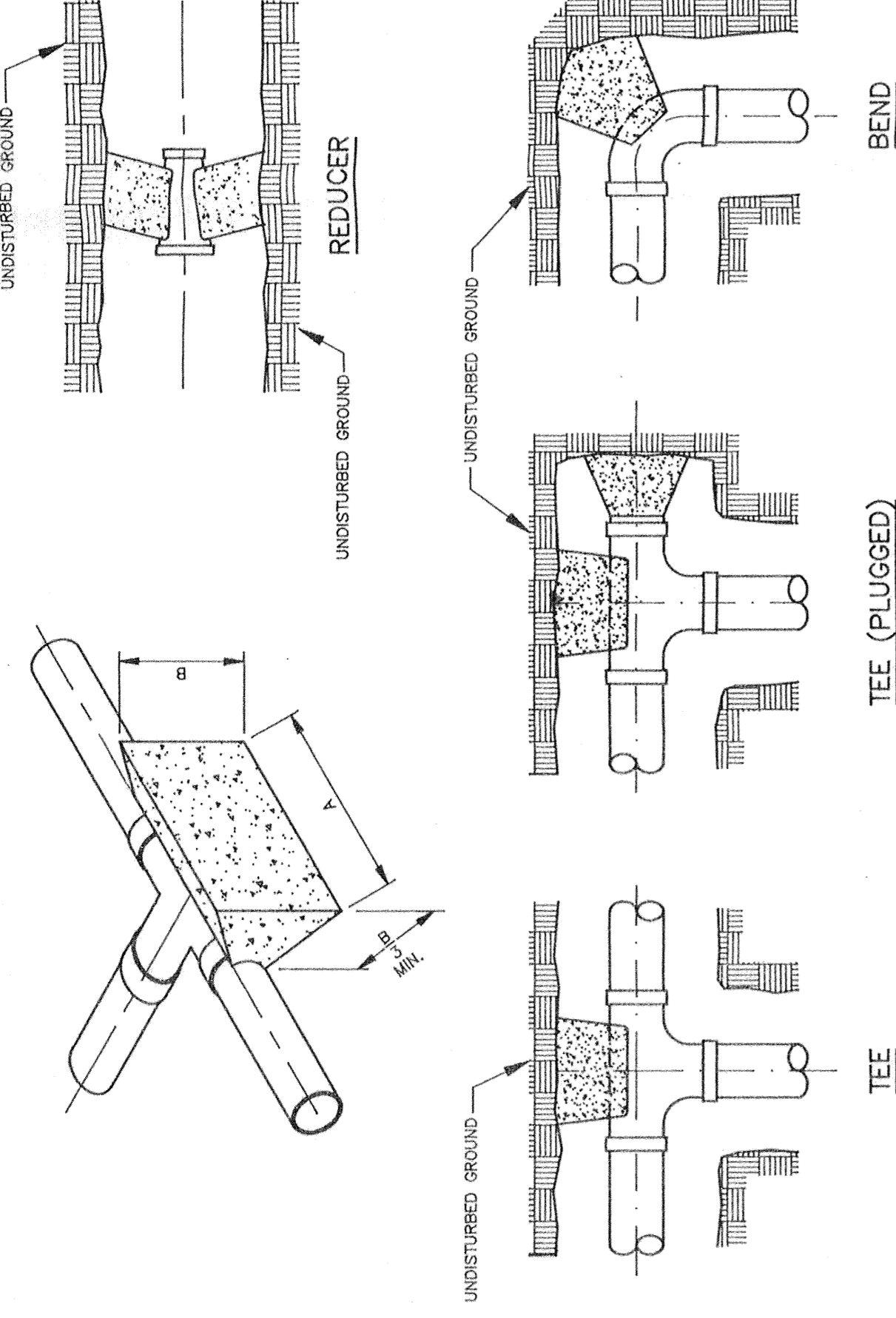


WESTWOOD VILLAGE SQUARE
 ROAD & DRAINAGE PLANS
Weich Engineering, Inc.
 ENGINEERING & SURVEYING
 P. O. BOX 894 - DOVER, HIGHWAY - SANDPOINT, IDAHO 83884
 Ph: (208) 283-6881

Drawn by: AS Date: 4/93 Sheet: 2 of 2
 Checked by: AS Scale: AS NOTED

THRUST BLOCKING DETAILS

NOT TO SCALE



FITTING SIZES	DIMENSION FOR THRUST BLOCKING					
	TEES AND PLUGS		45° BEND AND WYES		REDUCERS AND 22 1/2° BEND	
	A	B	A	B	A	B
4"	19"	14"	21"	18"	19"	6"
6"	24"	23"	29"	26"	21"	10"
8"	32"	30"	38"	36"	29"	18"
10"	40"	39"	48"	46"	36"	26"
12"	48"	46"	56"	54"	44"	31"
14"	65"	46"	78"	59"	57"	41"
						29"

NOTES:

- THIS TABLE IS BASED ON 150 PSI MAIN PRESSURE 2000 PSF SOIL BEARING PRESSURE.
- WRAP ALL FITTINGS WITH POLYETHYLENE.

Testing - Hydrostatic Pressure Test

Test all sections of pressure sewer line, using the hydrostatic pressure test described below. Perform test in the presence of the Inspector.

Preparation for Test Plug pipe ends or close valves to isolate the section to be tested prior to beginning the test. Fill the section slowly with water, expelling the air gently.

Timing of Test Final acceptance hydrostatic test shall be performed after trench has been backfilled sufficiently to provide a minimum of 2 feet of cover over the pipe, except at pipe joints. Thrust blocks to be in place and cured prior to performing test. No person shall be allowed in the trench excavation during testing.

Test Sections Perform tests on isolated sections between valves or on entire pressure sewer line from pump station to outfall to gravity.

Test Procedure Perform hydrostatic test for all force mains in the following manner:

Apply pressure through a pump connected to the pipe line. Bring the pressure to 100 psi.

Test the section at 100 psi for two hours and determine pipe leakage by accurately measuring the amount of water pumped to maintain the 100 psi in the pipe.

Performance Required for Acceptance For hydrostatic test, determine the allowable leakage in gallons from the formula below. In a passing test, the measured leakage must be equal to, or less than, the number of gallons as determined in Formula 1 below.

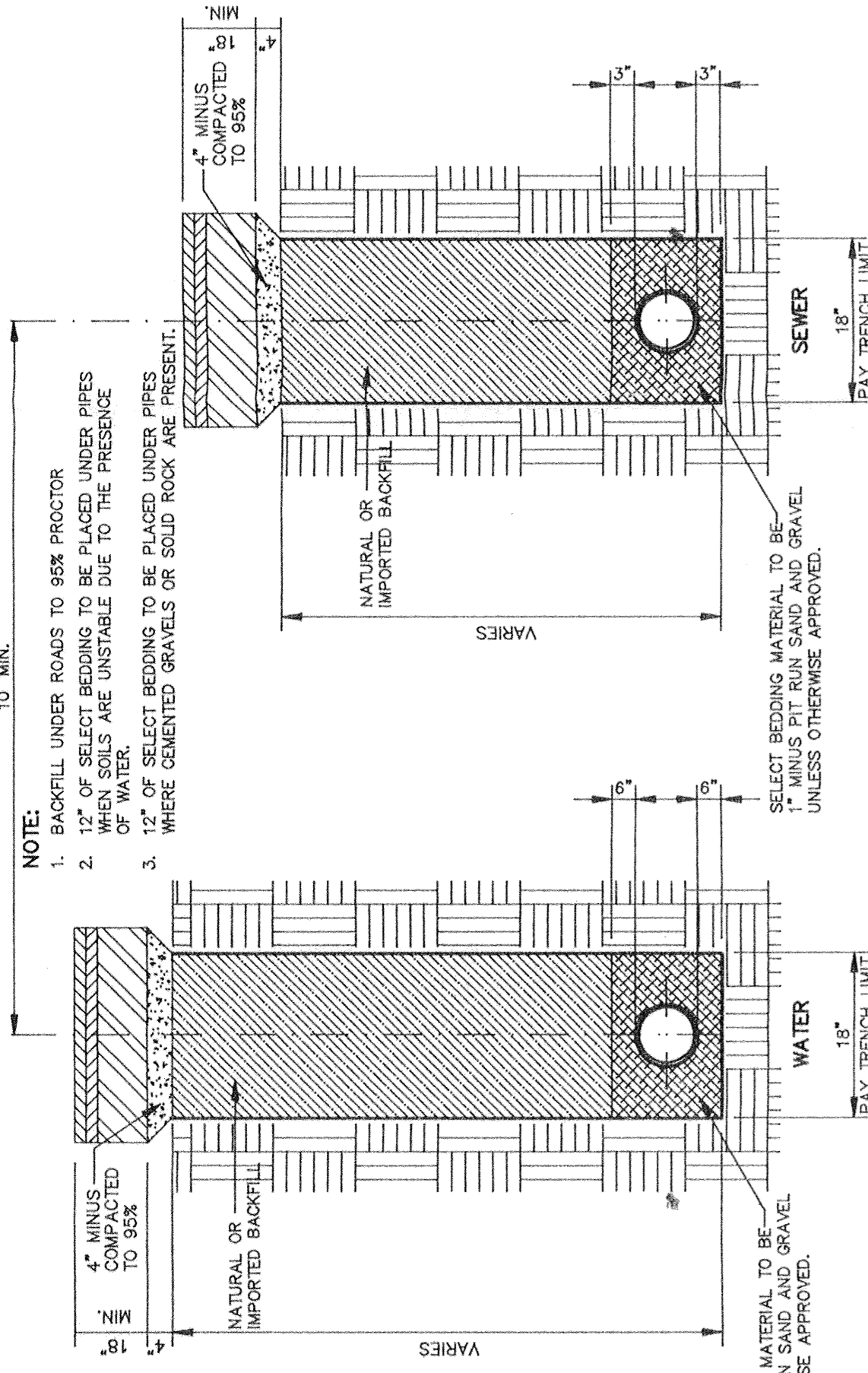
$$L = \frac{(N) \times (D)}{10} \text{ Formula 1}$$

L = Allowable leakage in gallons per 2 hour test.
N = Number of pipe joints in length of pipe tested.
D = Nominal pipe diameter of pipe in inches

Repair and Retesting of Defective Sections

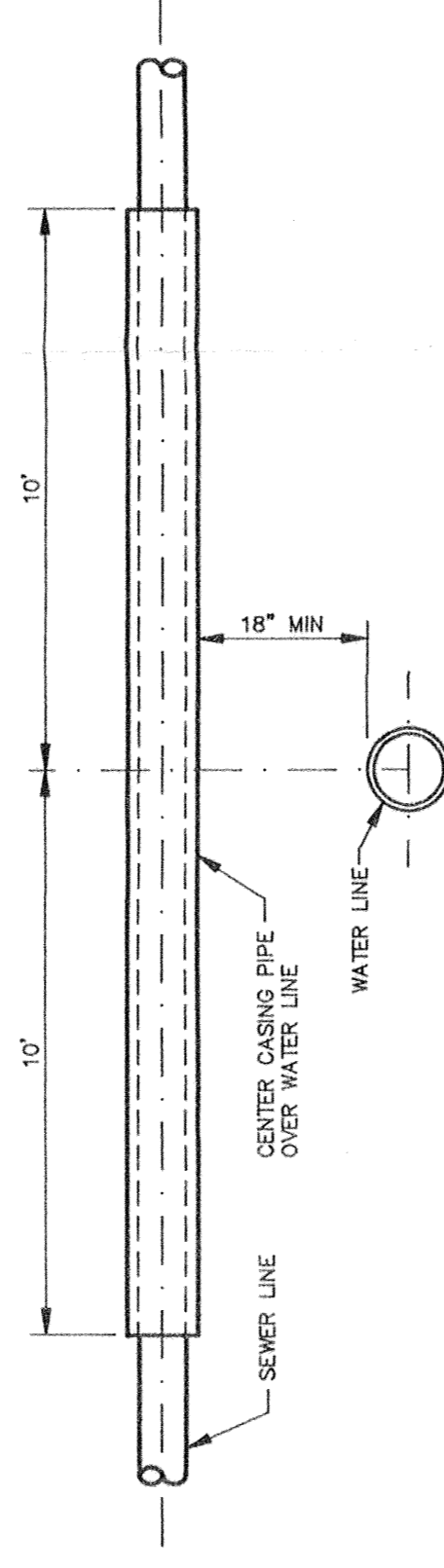
Determine the source(s) of leakage and repair all visible leaks and defective pipe section(s) valve(s), coupling(s) and fitting(s) by removing and replacing them.

Repair and retest the section until a passing test is obtained. Repair and retesting of sections shall be done at no expense to the Owner.



TYPICAL TRENCH DETAILS

NOT TO SCALE

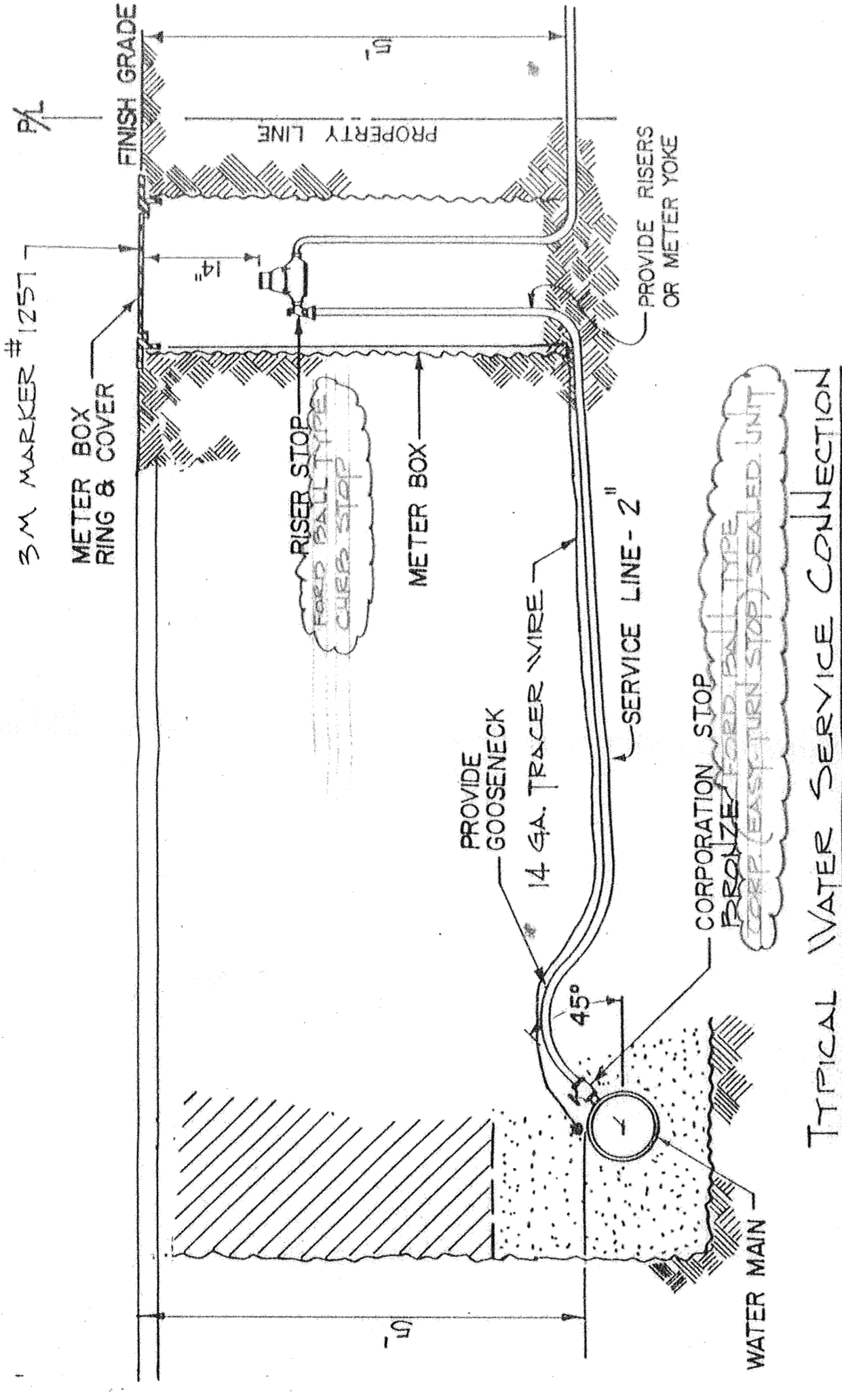


WATER-SEWER LINE CROSSING DETAIL

NOT TO SCALE

STERILIZATION OF WATER SYSTEM

ALL WATER PIPING IN THE PROJECT SHALL BE STERILIZED WITH CHLORINE AT THE COMPLETION OF THE INSTALLATION. HYPOCHLORITE USED SHALL COMPLY WITH STANDARD FOR DISINFECTING WATER MAINS BY THE ANWA C601-81.



REVISIONS:
5.10.93 -- REVISIONS SHOWN AS 0

