

FITTING - PIPE	HBL
11-1/4" - 16"	5'
22-1/2" - 16"	10'
45" - 16"	21'
90" - 16"	50'
45" - 8"	13'

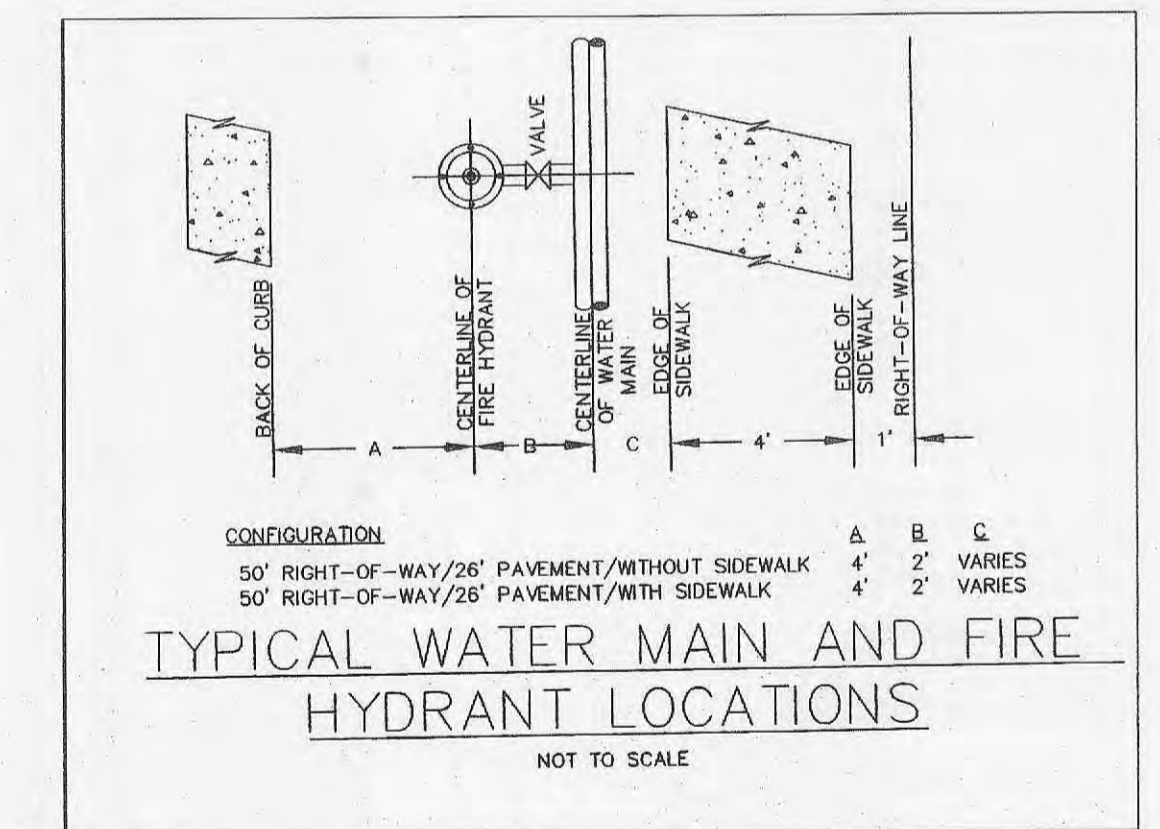
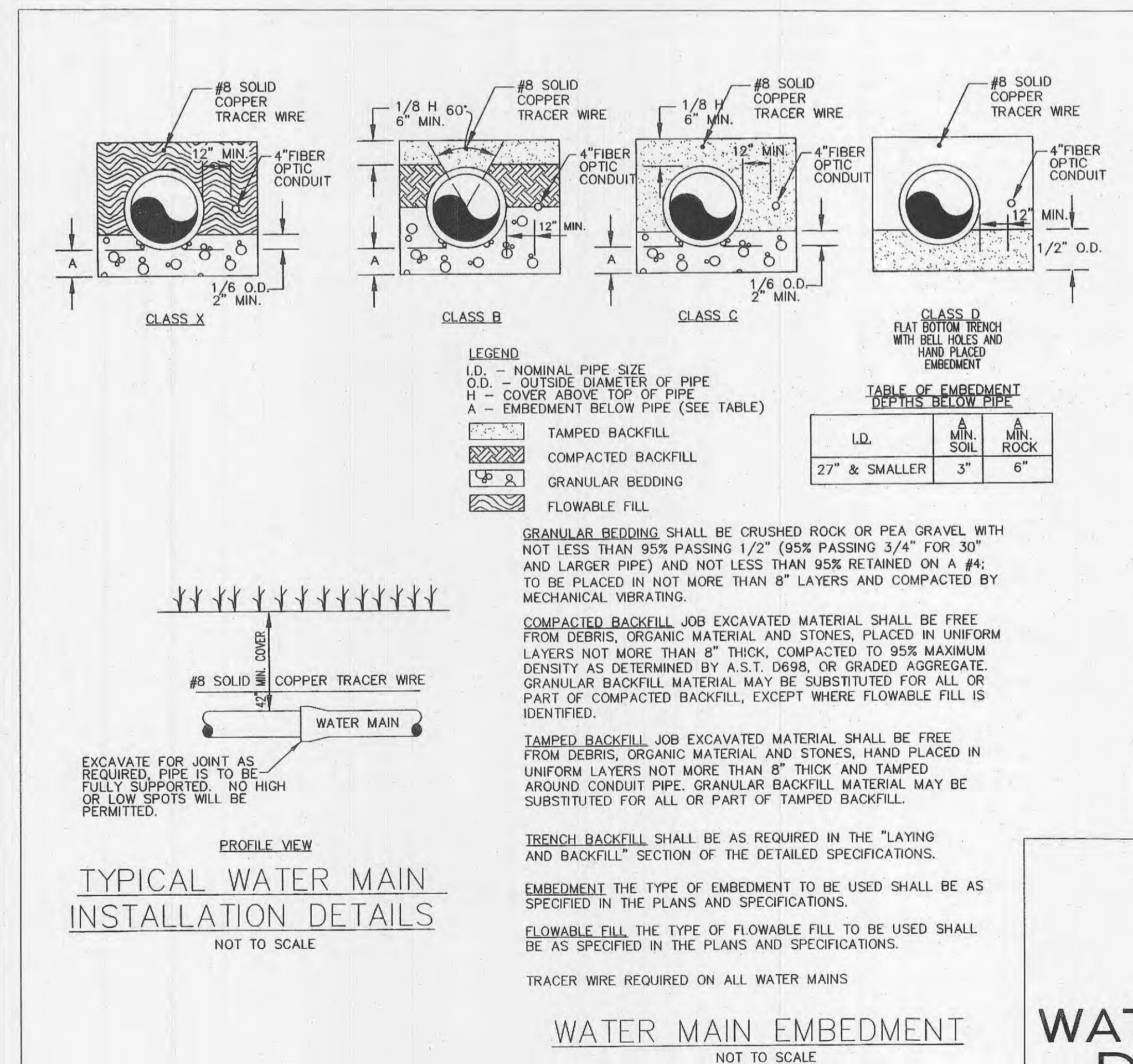
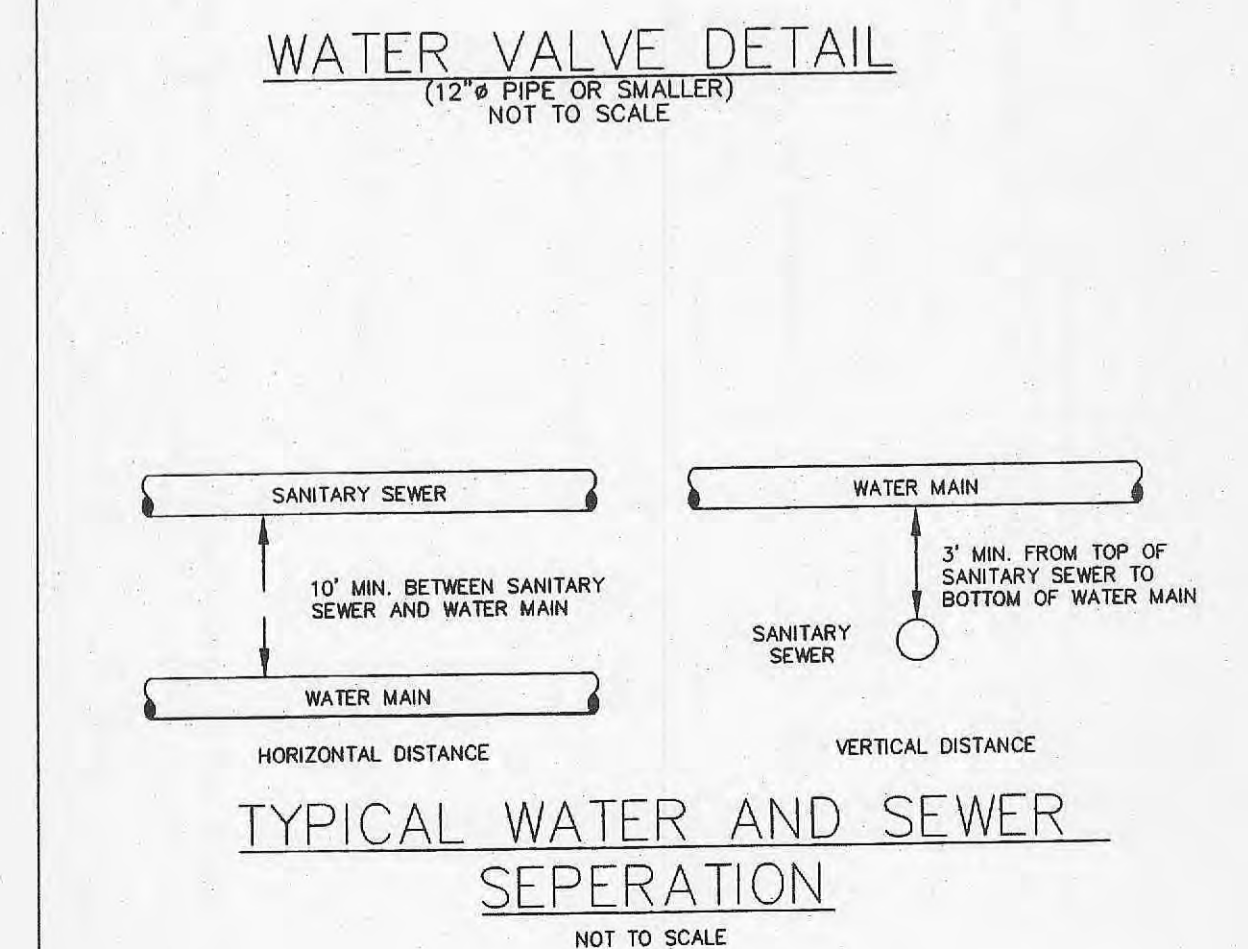
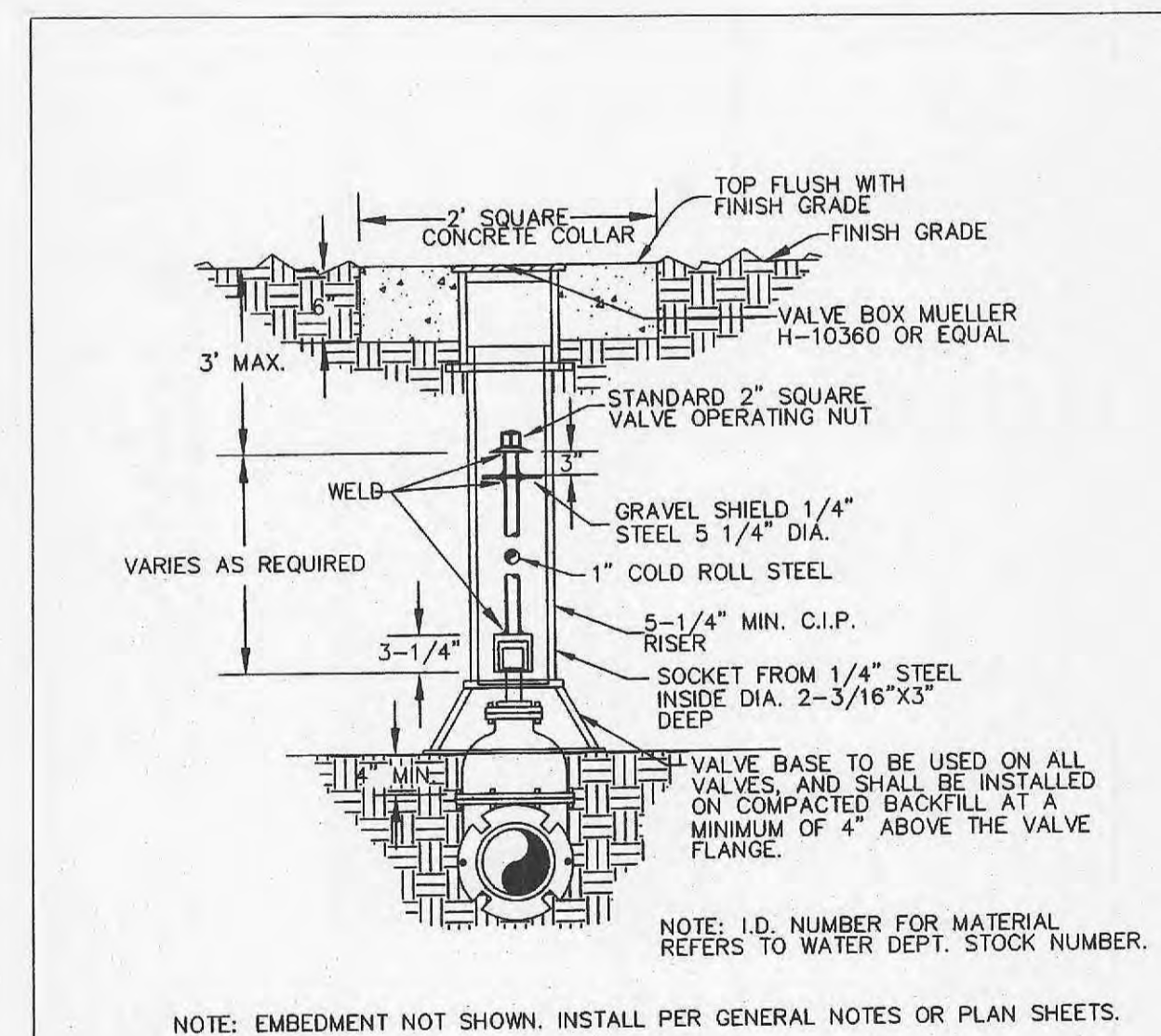
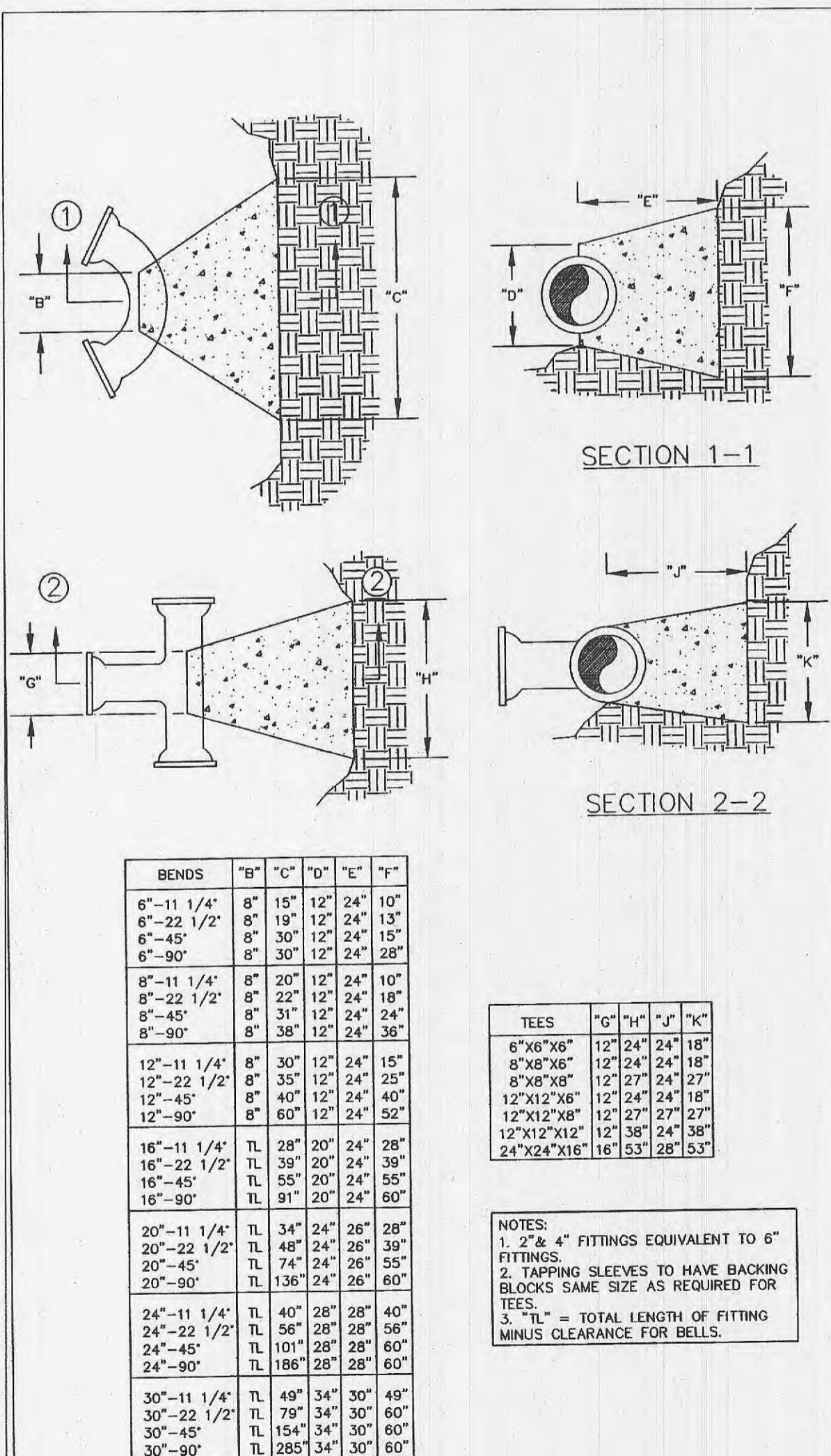
HBL=LENGTH OF RESTRAINT
HBL
ANGLE
HBL
HORZ. BEND

PIPE SIZE		
REDUCER	16"-12"	16"-8"
L	59'	95'

L=LENGTH OF RESTRAINT
REDUCER

1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
2. MINIMUM 3.5' GROUND COVER REQUIRED.
3. BASED ON 110 PSI INTERNAL PRESSURE AND 100 PSI SURGE PRESSURE FOR A TOTAL DESIGN PRESSURE OF 210 PSI.
4. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE RESTRAINED TOGETHER.
5. LENGTH OF RESTRAINED PIPE CHART IS ALSO FOR THE LENGTH OF JOINT RESTRAINT FOR MEGALUGS.
6. CROSSES MUST BE RESTRAINED IN ALL APPLICABLE DIRECTIONS.
7. REDUCER SHALL BE RESTRAINED ON THE LARGER PIPE ONLY.

RESTRAINT LENGTH DETAIL - PVC PIPE
NOT TO SCALE



ENGINEERS CERTIFICATION:
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STEVEN W. POLK
REGISTERED PROFESSIONAL ENGINEER
NUMBER E-18368
STATE OF MISSOURI
5/17/06
DATE