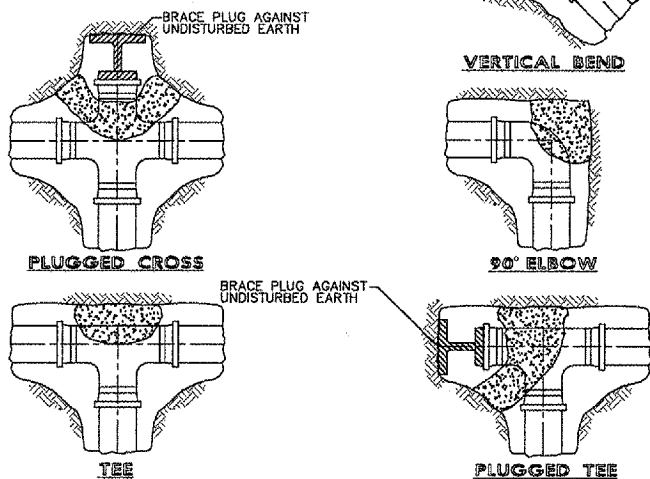
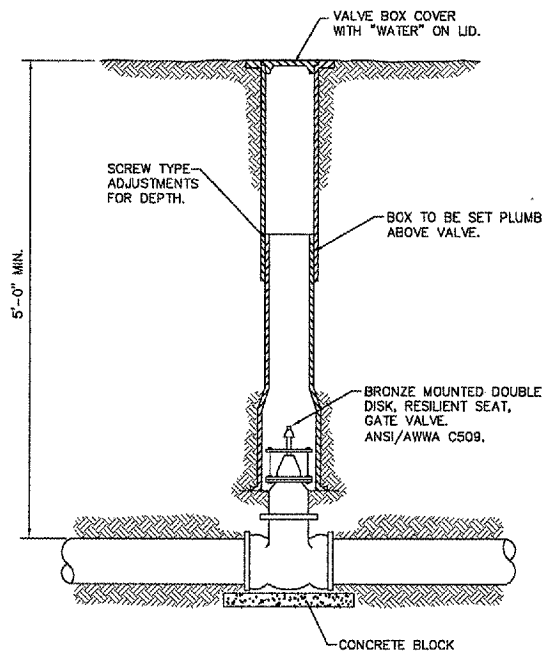


NOTES:

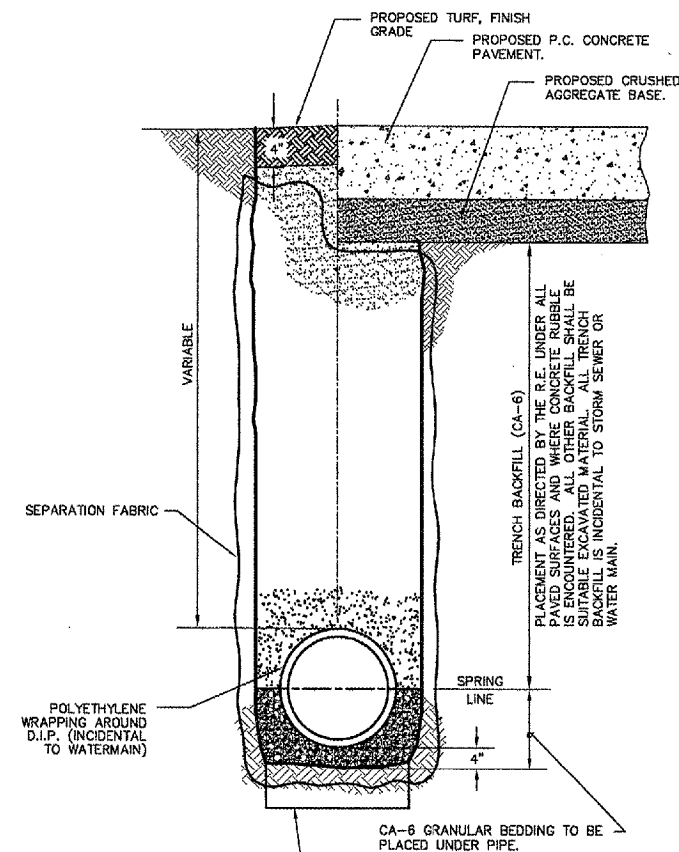
- 1.) ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH.
- 2.) ALL BLOCKS TO BE 3,000 P.S.I. CONCRETE, OR SOLID CONCRETE BLOCK
- 3.) ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.



THRUST BLOCK INSTALLATION
NOT TO SCALE

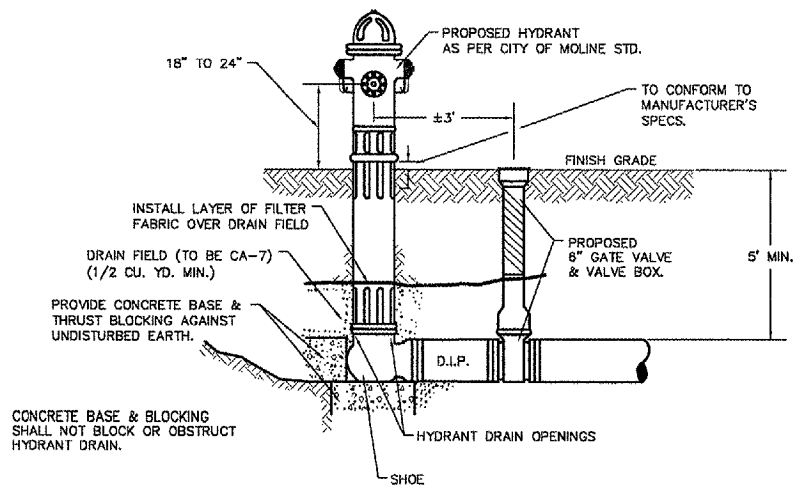


VALVE INSTALLATION DETAIL
NOT TO SCALE



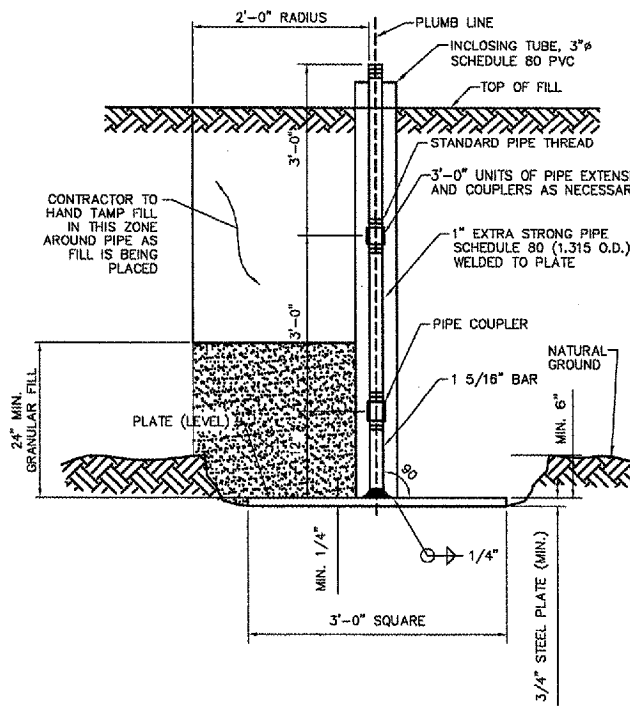
NOTE: GRANULAR BEDDING, TRENCH BACKFILL, AND SEPARATION FABRIC SHALL BE CONSIDERED INCIDENTAL TO THE STORM SEWER OR WATERMAIN. ADDITIONAL "GRANULAR BEDDING" (CA-6) MAY BE REQUIRED IN AREAS WITH UNSUITABLE SOIL. (AS REQUIRED BY THE ENGINEER).

TYPICAL STORM SEWER/WATERMAIN INSTALLATION DETAIL
NOT TO SCALE



TYPICAL FIRE HYDRANT
NOT TO SCALE

- NOTE:
- 1.) ALL REFERENCES TO SPECIFICATIONS REFER TO THE CITY OF MOLINE SPECIFICATIONS AND STANDARDS.
 - 2.) THRUST BLOCK AND WATER VALVE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DRAWINGS NOS. 12 AND 14 RESPECTIVELY.



SETTLEMENT PLATE DETAIL
NOT TO SCALE

- SETTLEMENT PLATES CONSTRUCTION NOTE:**
1. ALL SETTLEMENT PLATES AND ALL NECESSARY PIPE EXTENSIONS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
 2. PLATES AND EXTENSIONS SHALL BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION IS BEGUN ON THE FILL WHERE INDIVIDUAL SETTLEMENT PLATES ARE TO BE LOCATED.
 3. INSTALLATION SHALL BE MADE AS INDICATED HEREON OR AS DIRECTED BY THE ENGINEER.
 4. SETTLEMENT PLATES SHALL BE PLACED AT LOCATIONS AS SPECIFIED ON THE PROJECT PLANS.
 5. THE SETTLEMENT PLATES SHALL BE INSTALLED AT LEAST 6 INCHES BELOW SURFACE OF NATURAL GROUND FIRMLY SEATED AND LEVEL TO ENSURE INSTALLATION OF THE EXTENSIONS IN A PLUMB LINE. NECESSARY EXTENSIONS SHALL BE INSTALLED AS CONSTRUCTION OF THE FILL PROGRESSES.
 6. THE COST OF FURNISHING AND INSTALLING SETTLEMENT PLATES WITH EXTENSIONS WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED TO BE INCIDENTAL TO BORROW EXCAVATION.
 7. CONTRACTOR TO REMOVE INCLOSING TUBES AND 1" PIPES ABOVE THREADED COUPLINGS AT END OF SETTLEMENT PERIOD. FILL HOLES WITH SAND AND SATURATE WITH WATER.

IL. PROJ: MLI-3673 AIP PROJ: 3-17-0068-XX

REVISIONS		
NO.	ITEM	DATE

PLOTTING SCALE:	1" = 1'
DRAWN BY:	BLH
CHECKED BY:	SAS
DATE:	APRIL 2007