



* SPECIAL DESIGN REQUIRED IF GREATER THAN 5'-0"

* BEARING AREAS ARE BASED ON SOIL HAVING AN ALLOWABLE SAFE LATERAL BEARING OF 2000 POUNDS PER SQUARE FOOT AND 200 PSI TEST PRESSURE AND A 1.5 FACTOR OF SAFETY. AREA MUST BE REVISED FOR SOILS WITH A LOWER BEARING CAPACITY OR HIGHER TEST PRESSURE.

GENERAL NOTES:

1. COVER OVER TOP OF PIPE SHALL BE 42" MINIMUM. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
2. THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
3. NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES OR OTHER UTILITY TRENCHES.
4. THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
5. POLYETHYLENE ENCASEMENT ON ALL D.I. PIPE AND FITTINGS.
6. PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
7. ALL BOLTS SHALL BE PTFE POLYMER COATED BOLTS (EX. Xylan, FLUOROKOTE #1), MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH APPROVED MATERIAL AFTER CONCRETE HAS SET.
8. ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
9. THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
10. PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE 3000 PSI CONCRETE MINIMUM.

REVISIONS

MISSOURI AMERICAN WATER STANDARD
CIVIL
THRUST BLOCK AT HORIZONTAL BENDS
(EXCEEDING 3 FT. IN THICKNESS) - DETAIL

MISSOURI AMERICAN WATER
ST. LOUIS, MO. 63141

MISSOURI AMERICAN WATER ENGINEERING
727 CRAIG ROAD
ST. LOUIS, MO. 63141



AMERICAN WATER

DRAWN BY KKM
PROJECT ENG'R
APPROVED

DATE 09-16-11
PROJECT IP

USE DIMENSIONS ONLY
SCALE N.T.S.

USE APPROVED DRAWINGS ONLY
FOR CONSTRUCTION PURPOSES

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