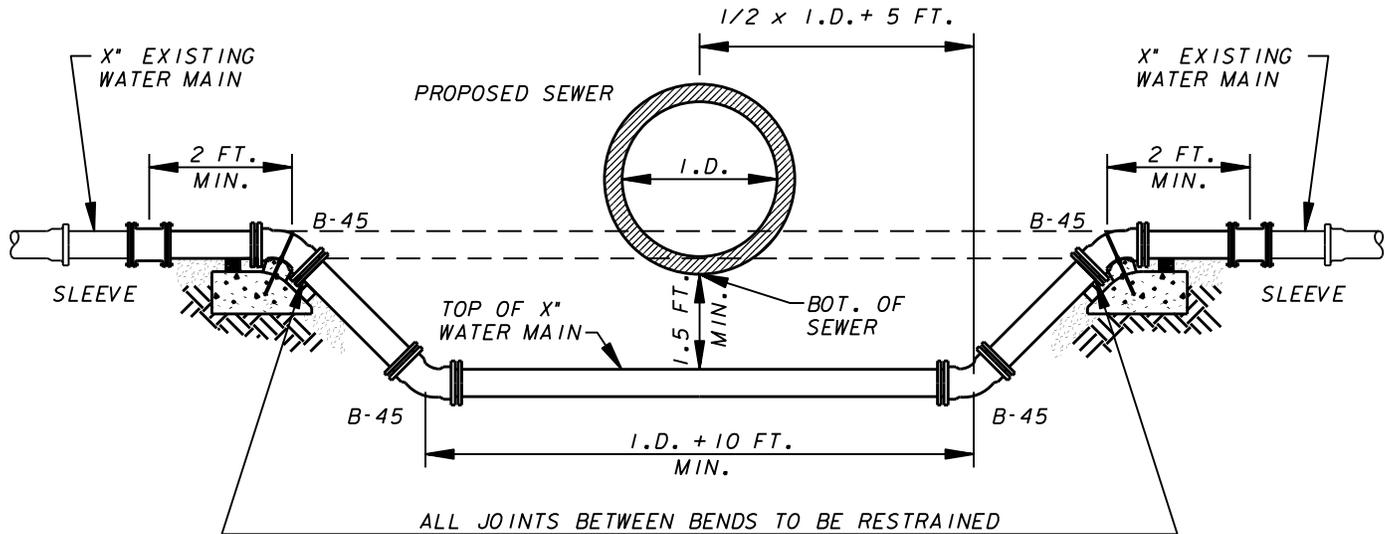


**STANDARD (4-16") WATER MAIN VERTICAL OFFSET  
BELOW PROPOSED SEWER**



NOTES:

DRAWING NOT TO SCALE

1) ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS", DATED JANUARY 2, 1987. ADDITIONALLY, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MILWAUKEE WATER WORKS "SPECIAL PROVISIONS FOR WATER MAIN CONSTRUCTION".

2) THE MILWAUKEE WATER WORKS WILL FURNISH WATER MAIN MATERIALS AS INDICATED IN SPECIFICATION SECTION 4.3.1.

3) THE CONTRACTOR SHALL FURNISH ALL OTHER ITEMS REQUIRED TO COMPLETE THIS PROJECT.

4) DUCTILE IRON PIPE AND FITTINGS MAY BE RESTRAINED USING MJ FIELDLOK RESTRAINT. BUTTRESSING MAY BE REQUIRED IN ADDITION TO THE FIELD LOK RESTRAINT. CONTRACTOR SHALL NOTIFY MWW CONSTRUCTION AT 414-286-8148 IF FIELD LOK RESTRAINT WILL BE USED. ADDITIONAL REQUIREMENTS FOR USE OF FIELD LOK RESTRAINT IS DETAILED IN THE STANDARD PLAN NOTES.

5) THE REQUIREMENTS FOR BACKFILL AND BEDDING MATERIAL SHALL BE AS STATED IN THE MILWAUKEE WATER WORKS "SPECIAL PROVISIONS FOR WATER MAIN CONSTRUCTION".

6) THE TOP BEND AT EACH END OF VERTICAL OFFSET WILL REQUIRE ANCHORS PER MWW SPEC DRAWINGS 10 AND 11.

7) ALL MATERIALS WILL REQUIRE INSPECTION BY THE CITY. THE CONTRACTOR SHALL ALLOW FOUR (4) WORKING DAYS NOTICE PRIOR TO START OF CONSTRUCTION FOR MATERIAL INSPECTION. CONTRACTOR SHALL CONTACT MR. STEVEN BRENGOSZ AT 414-286-2391 OR 414-708-2808 FOR MATERIAL INSPECTION.

8) THE MILWAUKEE WATER WORKS WILL SHUT OFF THE EXISTING WATER MAIN. PLEASE CONTACT MR. TIM SINGBEIL OF MWW DISTRIBUTION AT 414-708-7176, THREE (3) DAYS PRIOR, TO SCHEDULE THE NECESSARY SHUT-OFFS.

9) FOR CITY PROVIDED FITTINGS, THE SEWER CONTRACTOR SHALL CONTACT RICARDO LOPEZ, INVENTORY MANAGER, 414-286-6123. PROVIDE A LIST OF FITTINGS REQUIRED, THE SEWER PROJECT NUMBER AND LOCATION. CONTRACTOR IS REQUIRED TO PICK UP ALL MATERIAL.

FITTINGS LIST

4 - BX-45  
2 - SLX