ALL WATER MAIN RELOCATION SHALL BE DONE WITH SHUT DOWN CONNECTIONS

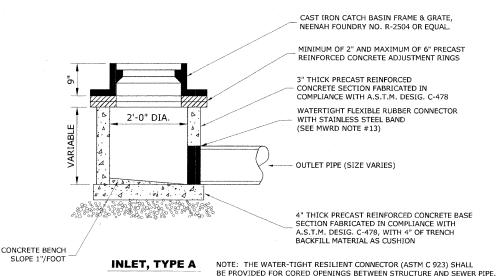
WATER MAIN ADJUSTMENT DETAIL

DUCTILE IRON PIPE SPECIFICATIONS

1. ALL DUCTILE IRON PIPE WATER MAINS AND SEWER MAINS SHALL BE CLASS 52, CEMENT-LINED AND TAR-COATED, MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C151/A21.51 WITH "PUSH-ON" JOINTS MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C111/A21.11. WHERE SPECIFIED ON THE PLANS, OR IN THE SPECIFICATIONS, MECHANICAL JOINTS AND "LOCK-TYPE" JOINTS SHALL BE USED IN LIEU OF "PUSH-ON" JOINTS.

2. ALL PIPE FITTINGS AND SPECIAL CASTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C153/A21.53 AND ANSI/AWWA C111/A21.11 SPECIFICATIONS AND SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS 150 DUCTILE IRON PIPE. IF CERTAIN FITTINGS ARE NOT MANUFACTURED IN DUCTILE IRON, CAST IRON FITTINGS SHALL BE ACCEPTABLE. MECHANICAL JOINT TYPE FITTINGS SHALL BE LISED.

3. ALL PROPOSED DUCTILE IRON PIPE WATER MAIN AND SEWER MAIN WILL BE ENCASED WITHIN FOUR (4) MIL THICK, HIGH-DENSITY POLYETHYLENE TUBING. ALL FITTINGS SHALL BE ENCASED IN A DOUBLE-LAYER OF POLYETHYLENE TUBING. THE POLYETHYLENE MATERIAL SHALL BE MANUFACTURED AND INSTALLED IN COMPLIANCE WITH ANSI/AWWA C105/A21.5. ALL PROPOSED WATER AND SEWER SERVICES SHALL BE ENCASED IN POLYETHYLENE TUBING FOR A MINIMUM DISTANCE OF THREE FEET (3') FROM THE PROPOSED WATER MAIN AND SEWER MAIN.



1'-10 3/4" CAST IRON CATCH BASIN FRAME AND GRATE, NEENAH FOUNDRY NO. R-2504 OR EOUAL. MINIMUM OF 2" AND MAXIMUM OF 6" OF PRECAST REINFORCED CONCRETE ADJUSTMENT RINGS PRECAST REINFORCED CONCRETE FLAT TOP 1'-0 1/4" (SEE I.D.O.T. STANDARD 602601 FOR REINFORCEMENT) PRECAST REINFORCED CONCRETE SECTIONS FABRICATED IN ACCORDANCE WITH A.S.T.M. DESIG. C-478 4'-0' WATERTIGHT FLEXIBLE RUBBER CONNECTOR WITH STAINLESS STEEL BAND (SEE MWRD NOTE #13) PRECAST REINFORCED CONCRETE BASE SECTION - FABRICATED IN ACCORDANCE WITH A.S.T.M. DESIGN C-478, WITH 4" TRENCH BACKFILL MATERIAL AS CUSHION

RESTRICTED DEPTH CATCH BASIN

NOTE

A WATERTIGHT RESILIENT CONNECTOR (ASTM C-923) SHALL BE USED FOR ALL NEW STRUCTURES AND CORED OPENINGS IN EXISTING STRUCTURES BETWEEN STRUCTURE WALL AND SEWER PIPE.

10" DIAMETER OUTLET PIPE

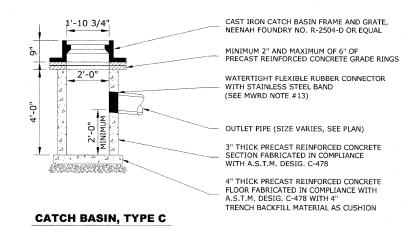
DIRECTION OF FLOW

CATCH BASIN WALL

(10" X 4") CATCH BASIN

RESTRICTOR

NOTE: THE WATER-TIGHT RESILIENT CONNECTOR (ASTM C 923) SHALL BE PROVIDED FOR CORED OPENINGS BETWEEN STRUCTURE AND SEWER PIPE.



CAST IRON MANHOLE FRAME & SELF-SEALING LID, WITH O-RING GASKET & RECESSED PICK HOLES, NEENAH FOUNDRY 1'-10 3/4" NO. R-1713 OR EQUAL, FRAME & LID WITH WORD "SANITARY" CAST INTO LID PRECAST REINFORCED CONCRETE GRADE STEPS 16" O.C., M.A. INDUSTRIES INC. PS-1 PF OR EQUAL KEYED JOINT WITH O-RING OR MASTIC PRECAST REINFORCED CONCRETE SECTIONS FABRICATED IN ACCORDANCE 4'-0" OR 5'-0" DIA AS SPECIFIED ON PLANS) WITH A.S.T.M. DESIG. C-478 FLEXIBLE SEWER PIPE COUPLING (AT EACH SEWER PIPE OPENING) AS PER ASTM DESIGNATION C-923 PRECAST REINFORCED CONCRETE BASE SECTION, INCLUDING PLATFORM, TROUGH, & COUPLING COMPONENTS. FABRICATED IN COMPLIANCE WITH A.S.T.M. DESIG. C-478 4" TRENCH BACKFILL MATERIAL AS

NOTE: THE WATER-TIGHT RESILIENT CONNECTOR (ASTM C 923) SHALL BE PROVIDED FOR CORED OPENINGS BETWEEN STRUCTURE AND SERE PIPE

STANDARD COMBINED SEWER MANHOLE

USER NAME -DESIGNED - MK/SBC REVISED SECTION MK/LEV STATE OF ILLINOIS **DRAINAGE AND UTILITIES DETAILS** 1397 09-00129-00-PV соок 103 49 LOT SCALE CHECKED SBC/JG/MV REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 63428 SHEET NO. 2 OF 4 SHEETS STA TO STA. (BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-2900

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