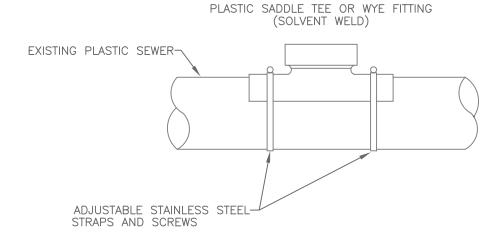


- 1. 6" V.C.P. WITH COMPRESSION JOINT. 2. 6" V.C.P. WITHOUT COMPRESSION JOINT. USE SEWER TITE AND
- 3. IF 4" HOUSE CONNECTION IS APPROVED, A 4" TO 6" INCREASER IS
- 4. IF 6" P.V.C. IS USED A FERNCO ADAPTER OR SEWER TITE AND
- OAKUM MAY BE USED TO MAKE THE JOINT. 5. A CLEAN, <u>DRY</u> BEDDING MATERIAL IS REQUIRED AROUND THE COMPLETED CONNECTION BEFORE BACK FILLING. THE BEDDING MATERIAL SHALL BE ONE OF THE FOLLOWING:
- A. TYPE 1 BEDDING B. 1 TO 3 CEMENT AND SAND C. PRE-MIX CONCRETE

(SIZES AND MATERIAL AS SPECIFIED) SERVICE CONNECTION TO WYE N.T.S.

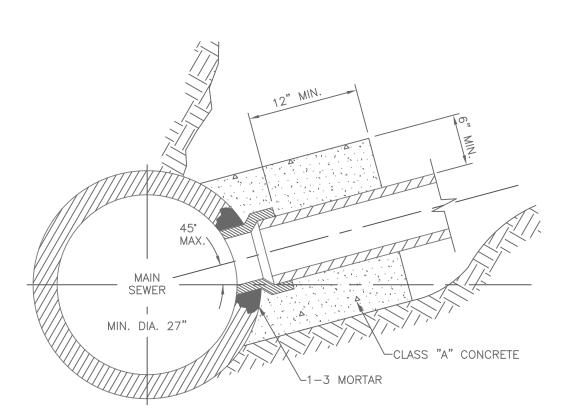


WHEN A CONNECTION TO A PLASTIC PIPE IS ALLOWED AND A CONNECTION IS LARGER THAN 6" IN DIAMETER, A SOLVENT WELD WYE OR TEE FITTING OF A SIMILAR MATERIAL MUST BE USED. (EXAMPLE: 10"X 8".)

THIS IS ACCOMPLISHED BY CAREFULLY CUTTING A HOLE WITH A SAW IN THE MAIN AT THE REQUIRED LOCATION. AFTER CUTTING AND SHAPING THE HOLE TO THE SIZE OF THE FITTING, THE FOLLOWING STEPS SHOULD BE TAKEN:

- 1. CLEAN AND DRY BOTH INSIDE SADDLE WYE SURFACE AND PIPE SURFACE TO BE SOLVENT CEMENTED.
- 2. <u>IMPORTANT:</u> APPLY A LIBERAL, HEAVY COAT OF A ONE-STEP SOLVENT CEMENT TO THE INSIDE SURFACE OF THE SADDLE WYE AND TO THE EXTERIOR WELDING SURFACE
- 3. WITHOUT DELAY, MATE THE SURFACES AND STRAP DOWN TIGHTLY. A BEAD OF SOLVENT SHOULD APPEAR AFTER SADDLE HAS BEEN STRAPPED
- 4. USING A RAG OR PAPER TOWEL, WIPE BEAD AND ANY EXCESS SOLVENT CEMENT OFF PIPE AND SADDLE.
- 5. ALLOW 30-60 MINUTES FOR SET-UP TIME BEFORE BACKFILLING. CURE TIME DEPENDS ON SIZE AND FIT OF MATERIALS BEING INSTALLED AND VARIOUS COLD DAMP CONDITIONS.
- 6. DISCARD OLD SOLVENT IF IT BECOMES JELLED OR LUMPY.
- 7. A CLEAN, DRY BEDDING MATERIAL IS REQUIRED AROUND THE COMPLETED CONNECTION BEFORE BACKFILLING. THE BEDDING MATERIAL SHOULD BE ONE OF THE FOLLOWING: A. TYPE 1 BEDDING B. 1 TO 3 CEMENT TO SAND MIX C. "PRE-MIX" CONCRETE

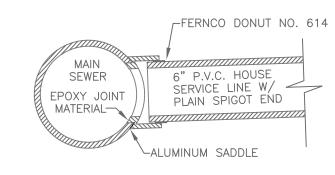
8" (& LARGER) CONNECTION TO PLASTIC MAIN N.T.S.



THE OPENING SHALL BE CUT BY THE CONTRACTOR TO A SUFFICIENT SIZE TO PERMIT INSERTING A TEE SADDLE OR SHORT LENGTH OF PIPE AT THE REQUIRED ELEVATION AND ANGLE TO ALLOW AT LEAST TWO (2) INCHES SPACE AROUND THE PIPE. THIS SPACE WILL BE SOLIDLY FILLED WITH 1-3 CEMENT-SAND MORTAR AND THE NEW PIPE NEATLY TRIMMED AND POINTED UP FLUSH WITH THE INSIDE OF THE MAIN SEWER.

IF THERE ARE REINFORCING BARS IN THE SEWER WALL, ONLY THOSE PREVENTING INSERTION OF THE PIPE MAY BE CUT. ALL OTHERS SHALL BE BENT INTO A CLASS "A" CONCRETE COLLAR AT THE JUNCTION OF THE CONNECTION PIPE AND THE MAIN SEWER.

HOUSE CONNECTIONS ALLOWED BY TEE SADDLE N.T.S.



SEWER

MATERIAL___

SEWER

MATERIAL-

EPOXY JOINT

EPOXY JOINT

-TYPE I OR TYPE III

6" V.C.P. HOUSE

COMPRESSION JT.

FILL VOID WITH

6" V.C.P. HOUSE

PLAIN SPIGOT END

-ALUMINUM SADDLE

SEWER TITE & OAKUM

SERVICE LINE W/

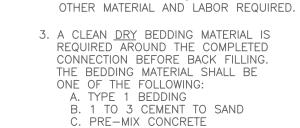
-ALUMINUM SADDLE

COMPRESSION JOINT

SERVICE LINE W/

24" DIAMETER AND NO WYE OR TEE AVAILABLE, A MACHINE TAP IS REQUIRED. 2. THE CONTRACTOR SHALL CUT THE HOLE IN THE MAIN, PROVIDE AND EPOXY THE SADDLE TO THE MAIN, AND PROVIDE ALL

NOTES:



1. 6" V.C.P. OR 6" P.V.C. HOUSE

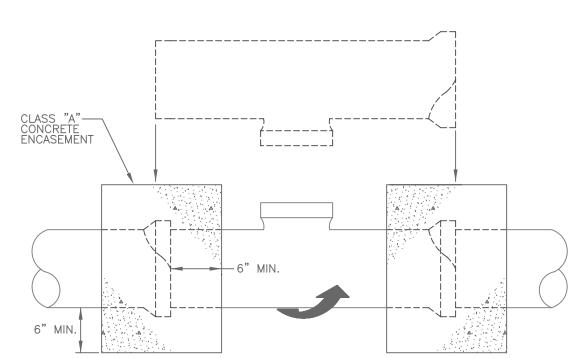
CONNECTION INTO PUBLIC V.C.P.

OR PUBLIC P.V.C. MAIN 8" TO

4. IF 4" HOUSE CONNECTION IS APPROVED, A 4" TO 6" INCREASER IS REQUIRED AT MACHINE TAP.

- 5. ALL EXCAVATION MUST BE ADEQUATELY BRACED BEFORE CITY INSPECTOR WILL MAKE AN INSPECTION.
- 6. ALL MATERIAL REQUIRED TO MAKE AN APPROVED CONNECTION MUST BE ON THE CONNECTION SITE AT THE TIME OF ARRIVAL OF THE CITY INSPECTOR. IF THE MATERIAL IS NOT AVAILABLE, THE TAP MUST BE RESCHEDULED.

MACHINE TAP N.T.S.

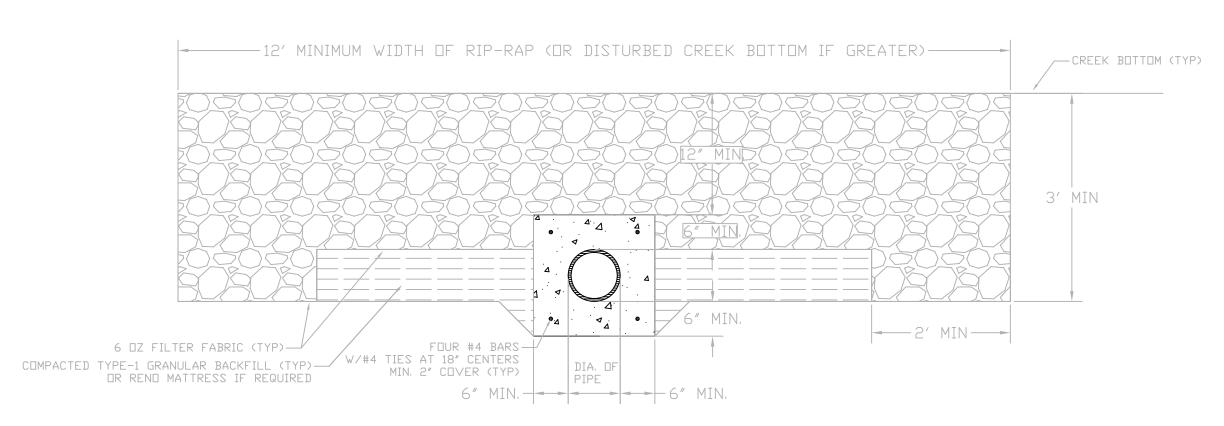


WHEN A CONNECTION IS ALLOWED LARGER THAN 6" DIAMETER A SADDLE MAY BE USED IF THE I.D. OF THE CONNECTION PIPE IS NOT GREATER THAN ONE-HALF (1/2) THE I.D. OF THE MAIN SEWER. (EXAMPLE; 24"X 10")

THIS IS ACCOMPLISHED BY BREAKING AWAY AND REMOVING ONE SECTION OF PIPE. THE TOP HALF OF THE BELL ON THE PIPE LYING ADJACENT TO THE GAP IS CAREFULLY BROKEN OFF. THE TOP HALF OF THE BELL ON THE MAIN REPLACEMENT SECTION (WITH A "TEE" OR "WYE" FITTING) IS ALSO BROKEN OFF. THE REPLACEMENT PIPE IS THEN PLACED ON THE LINE GAP WITH THE STUB POINTED IN THE WRONG DIRECTION. THE BROKEN BELLS ON THE RE-SECTION TO FIT INTO THE SEWER LINE WITHOUT DISTURBING THE ADJOINING

24" (MIN.) CLASS A CONCRETE ENCASEMENT -ENGINEER APPROVED - EXTEND CONCRETE TO UNDISTURBED EARTH AT ADAPTOR OR COUPLING -BOTTOM AND SIDES OF TRENCH

> PIPE CONNECTION OF DISSIMILAR MATERIAL OR DIFFERENT SIZES OF SIMILAR MATERIAL



NOTES:

1) CONCRETE ENCASEMENT WITH RIP-RAP BACKFILL SHALL BE USED FOR ALL CREEK CROSSINGS. 2) WHERE 12-INCH MINIMUM RIP-RAP COVERAGE OVER ENCASEMENT IS NOT POSSIBLE, 6-INCH THICK PVC COATED REND MATTRESS SHALL BE INSTALLED DVER, AND 9-INCH THICK REND MATTRESSES ON SIDES OF ENCASEMENT. 3) PIPE AND REBAR MUST BE SUPPORTED TO PREVENT DISPLACEMENT DURING PLACEMENT OF CONCRETE. 4) ALL REBAR SHALL BE 40 KSI AND CONCRETE SHALL BE 4000 PSI. 5) IF ENCASEMENT IS CUT INTO BEDROCK, TOP OF

> CREEK CROSSING NOT TO SCALE

ENCASEMENT MUST BE FLUSH WITH TOP OF BEDROCK.



REV. DATE DESCRIPTION CITY OF JACKSON, MISSOURI

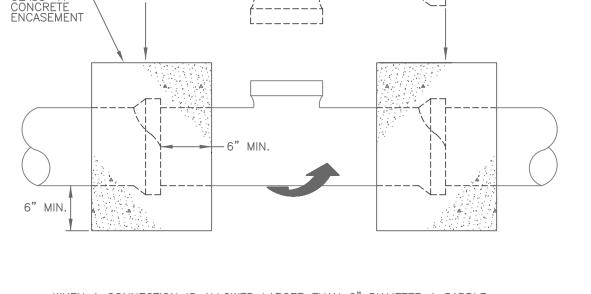
STANDARD DETAILS OF SANITARY SEWER CONSTRUCTION

REVISED: MARCH, 2013 DIRECTOR OF WASTEWATER UTILITIES:

KENT A. PEETZ, P.E.

DRAWN BY: HS NONE

SCALE: SHEET NO. 3 OF



IF THE I.D. OF THE CONNECTION PIPE $\underline{\rm IS}$ GREATER THAN ONE-HALF (1/2) THE I.D. OF THE MAIN SEWER THE WYE OR TEE MUST BE "ROLLED-IN". (EXAMPLE: 15"X8")

PLACEMENT AND THE ADJOINING PIPE MAKE IT POSSIBLE FOR THE REPLACEMENT PIPE SECTIONS. THE PLACEMENT SECTION IS THEN ROTATED TO THE DESIRED POSITION AND THE BROKEN BELLS ARE ENCASED WITH A 6" CLASS "A" CONCRETE ENCASEMENT.

(FOR EXISTING CLAY OR CONCRETE PIPE)