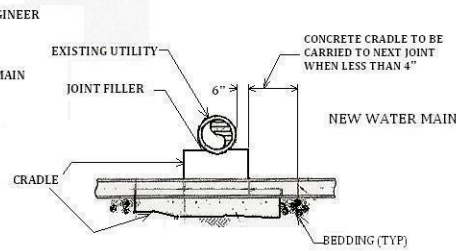
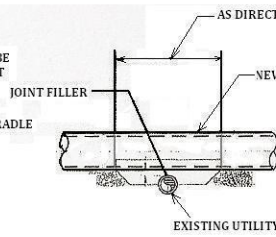
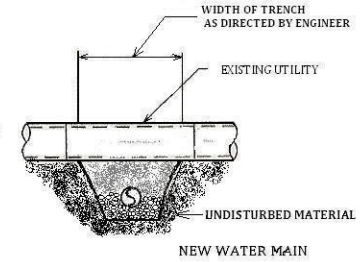


NEW PIPE OVER SANITARY SEWER

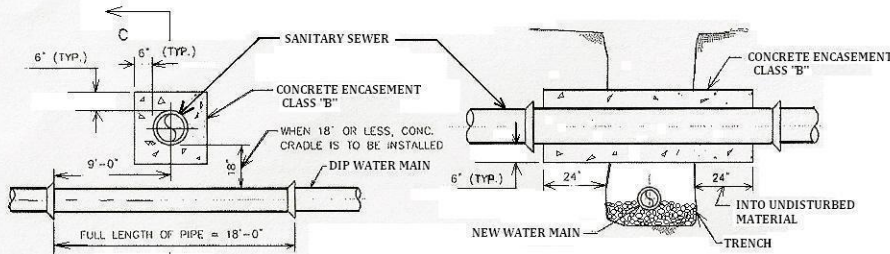


NEW PIPE UNDER EXISTING UTILITIES



NOTES:

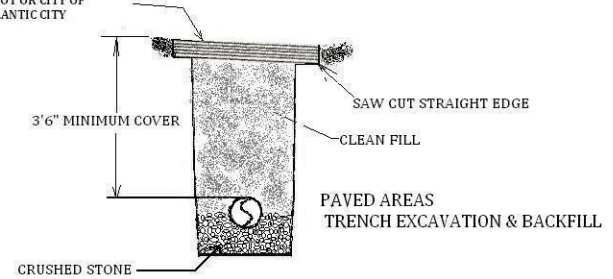
- 1) ARRANGE SO NEITHER NEW OR EXISTING PIPE HAS A JOINT IN CONTACT WITH CONCRETE
- 2) JUTE OR SIMILAR BITUMINOUS IMPREGNATED JOINT FILLER SHALL BE INSTALLED BETWEEN BOTH PIPE AND CONCRETE



WATER MAIN CROSSING UNDER SANITARY SEWER

NOTE:  
WHERE JOINT ON EXISTING SANITARY SEWER FALLS WITHIN THE WATER MAIN TRENCH, THE COMPLETE JOINT IS TO BE ENCASED IN CONCRETE

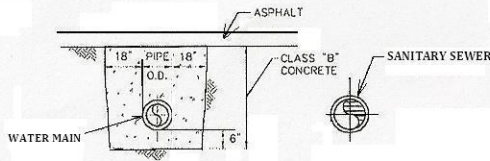
PAVING AS REQUIRED BY NIDOT OR CITY OF ATLANTIC CITY



TRENCH NOTES

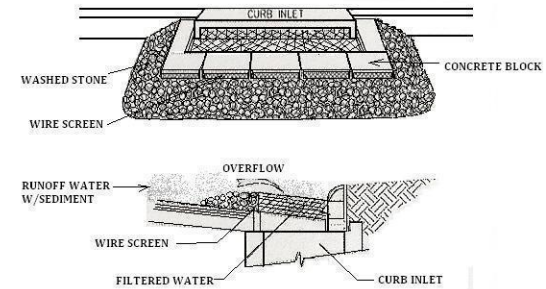
- 1) ALL NEW WATER MAINS, HOUSE SERVICE LINES AND TEMPORARY WATER MAIN BYPASS LINES SHALL BE DIRECTED IN ACCORDANCE WITH AWWA STANDARD C-651-86 AS AMENDED AND SUPPLEMENTED. MAINS AND SERVICES SHALL NOT BE PLACED INTO SERVICE UNTIL ACCEPTABLE BACTERIOLOGICAL RESULTS ARE OBTAINED AND PERMISSION TO PLACE THE SERVICES IN OPERATION HAS BEEN RECEIVED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
- 2) ALL WATER MAINS AND SANITARY OR INDUSTRIAL SEWER LINES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 10 FEET. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN OR WITH SUCH OTHER SEPARATION EXPRESSLY APPROVED BY THE NJDEP. AT CROSSING OF SEWER LINES AND WATER MAINS THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN (SEWER SERVICE LATERALS ARE NOT SUBJECT TO THIS REQUIREMENT). IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER LINE SHALL BE OF WATERTIGHT CONSTRUCTION (IE DUCTILE IRON OR REINFORCED CONCRETE PIPE), WITH WATERTIGHT JOINTS THAT ARE A MINIMUM OF 10 FEET FROM THE WATER MAIN
- 3) TRENCHES MUST BE BACKFILLED AT THE END OF EACH DAY, EXCEPT IN EMERGENCY SITUATIONS STEEL PLATES WILL BE USED. ATLANTIC CITY AND/OR NIDOT PERMIT REQUIRED. ENGINEER MUST BE NOTIFIED OF EMERGENCY SITUATIONS WITHIN THE CITY AND/OR STATE ROW
- 4) ALL NEW WATER MAINS SHALL HAVE BLUE IDENTIFIER TAPE LAID IN THE TRENCH AND CENTERED OVER THE WATER MAIN NO CLOSER THAN SIX (6) INCHES

NOTE: DEVIATION REQUIRES NJDEP APPROVAL AND CONCRETE ENCASEMENT



MINIMUM HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY

CURB INLET SEDIMENT CONTROL



ATLANTIC CITY MUNICIPAL UTILITIES AUTHORITY

401 NORTH VIRGINIA AVENUE  
PO BOX 117  
ATLANTIC CITY, NJ 08404-0117

## TYPICAL WATER MAIN/SEWER MAIN CROSSING DETAIL

DESIGN GUIDE

DESIGN GUIDE  
APPROVED BY: M MEGELLA  
DEC 2009