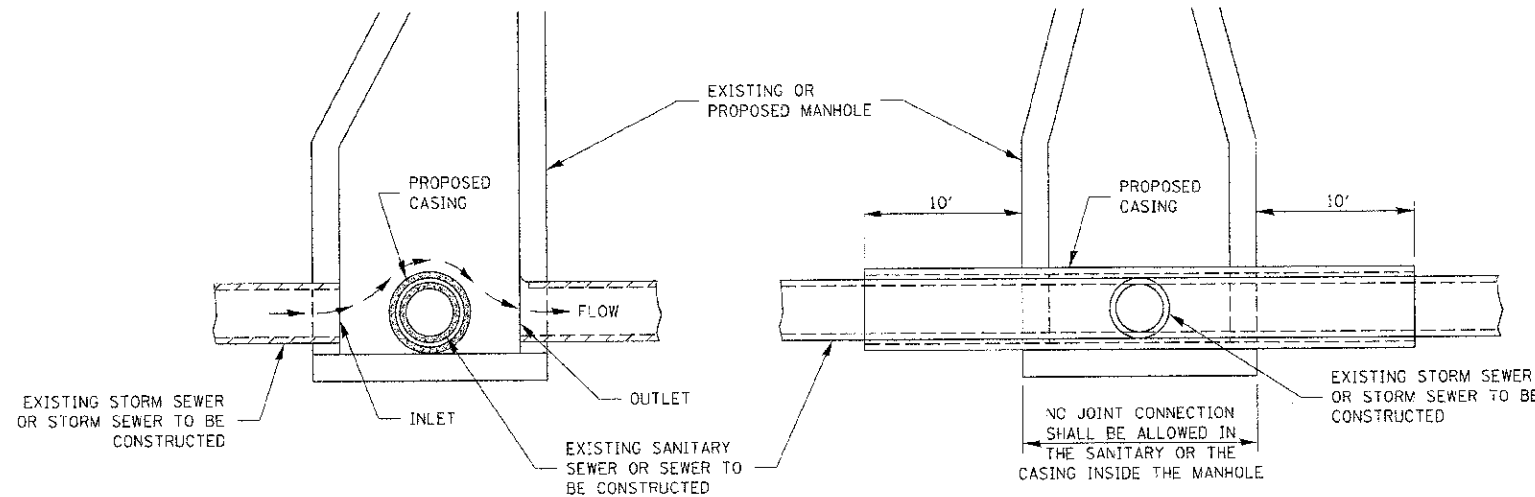


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	(1-1)R	KENDALL	514	434
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

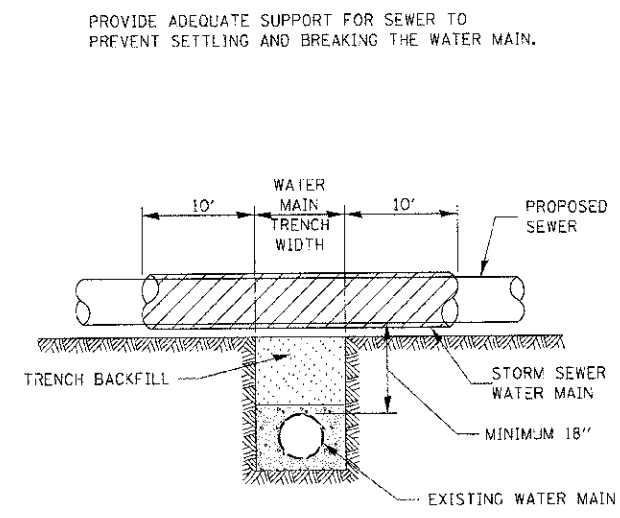


ELEVATION - ECCENTRIC

ELEVATION - CONCENTRIC

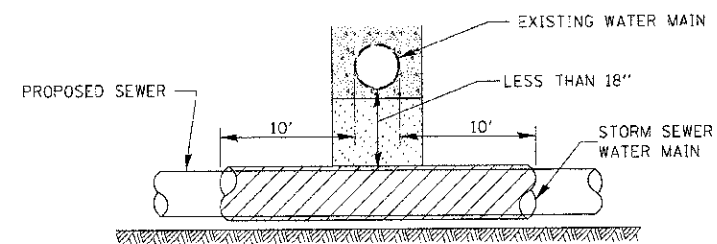
**AT GRADE CROSSING OF  
SANITARY AND STORM SEWER**

CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED



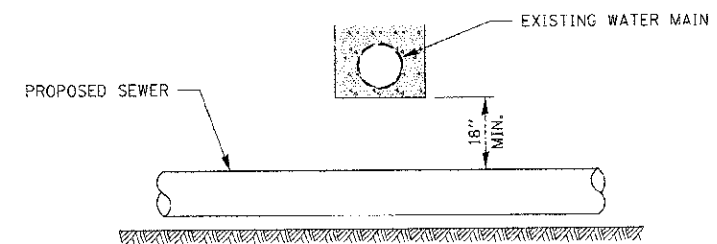
EXISTING WATER MAIN BELOW  
PROPOSED SEWER LINE WITH MINIMUM  
18" VERTICAL SEPARATION

POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN  
PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH



PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH

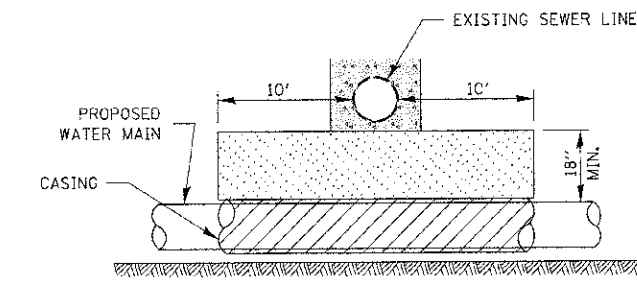
MAINTAIN 18" MINIMUM VERTICAL SEPARATION FOR 10' HORIZONTALLY



PROPOSED SEWER LINE  
BELOW EXISTING WATER MAIN

PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT

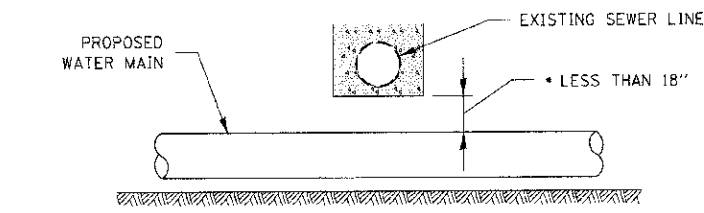
PLACE TRENCH BACKFILL FOR 10' ON EITHER SIDE OF SEWER LINE



CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH

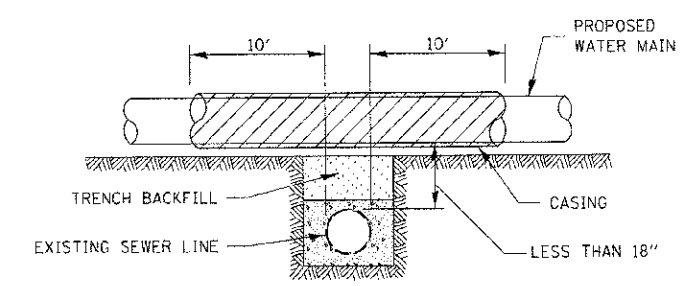
MAINTAIN 18" MINIMUM VERTICAL SEPARATION FOR 10' HORIZONTALLY



• NOT ALLOWED  
MUST MAINTAIN 18" VERTICAL SEPARATION

PROPOSED WATER MAIN  
BELOW EXISTING SEWER LINE

POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATER MAIN CASING AND SEWER



CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 50 LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

PROPOSED WATER MAIN  
ABOVE EXISTING SEWER LINE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SEWER AND WATER  
MAIN CROSSING**

SCALE: VERT.  
HORIZ.  
DATE 7/5/2012

DRAWN BY  
CHECKED BY MED

1105 PROJ. # 3100014  
 PLOT DATE = 7/5/2012  
 FILE NAME = P:\C\111\DOT\DIS\3100014\Phase 1\INLET\_SEW\_WAT\_CROSS.dgn