CONTRACT NO. 64647

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	1-3-K	ROCK ISLAND	476	323
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DISTRICT STANDARDS

SEWER AND WATER MAIN CROSSINGS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.		TO STA.		
FED. ROAD DIST. NO. ?	ILLINOIS	FED. AID PROJECT		

THIS DETAIL IS FOR UNKNOWN UTILITIES UNLESS QUANTITIES ARE INCLUDED IN THE PLANS THE EXTRA WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.
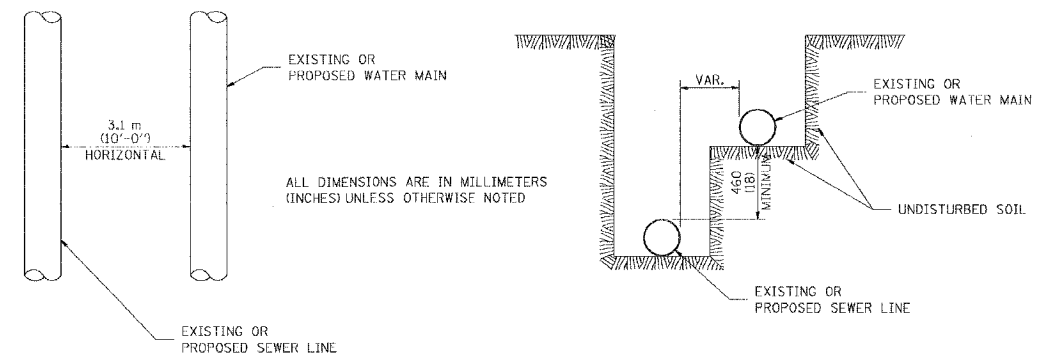
WHEN PROPOSED SEWER (OR WATER) IS LOCATED 3.1 m (10'-0") OR MORE FROM EXISTING WATER (OR SEWER) NO SPECIAL CONSTRUCTION REQUIRED.

WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 3.1 m (10'-0") FROM EXISTING WATER (OR SEWER) DETAILS BELOW SHALL APPLY.


PROPOSED CASING

EXISTING OR PROPOSED MANHOLE

FLOW

EXISTING STORM SEWER OR STORM SEWER TO BE CONSTRUCTED

INLET

OUTLET

EXISTING SANITARY SEWER OR SEWER TO BE CONSTRUCTED

ELEVATION - ECCENTRIC

3m (10'-0")   PROPOSED CASING   3m (10'-0")

NO JOINT CONNECTION SHALL BE ALLOWED IN THE SANITARY OR THE CASING INSIDE THE MANHOLE

EXISTING STORM SEWER OR STORM SEWER TO BE CONSTRUCTED

ELEVATION - CONCENTRIC

CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 50 (2) LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

AT GRADE CROSSING OF SANITARY AND STORM SEWER

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

EXISTING OR PROPOSED WATER MAIN

3.1 m (10'-0") HORIZONTAL

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

EXISTING OR PROPOSED SEWER LINE

PLAN VIEW

VAR.   EXISTING OR PROPOSED WATER MAIN

460 (18) MINIMUM

UNDISTURBED SOIL

EXISTING OR PROPOSED SEWER LINE

WATER AND SEWER HORIZONTAL SEPARATION REQUIREMENTS

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

EXISTING WATER MAIN

LESS THAN 460 (18)

PROPOSED SEWER

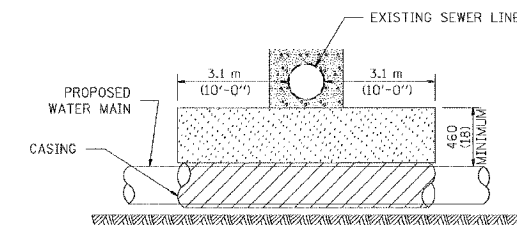3.1 m (10'-0")   3.1 m (10'-0")

STORM SEWER WATER MAIN

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

MAINTAIN 460 (18) MINIMUM VERTICAL SEPARATION FOR 3.1m (10') HORIZONTALLY

EXISTING WATER MAIN

PROPOSED SEWER
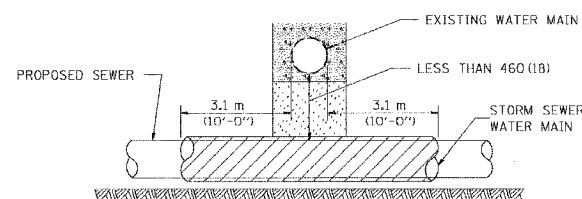
460 (18) MINIMUM
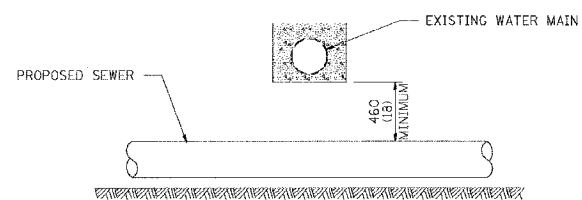
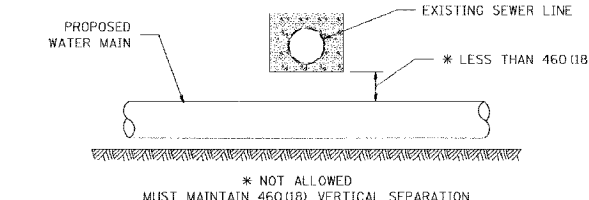ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

PROPOSED SEWER LINE BELOW EXISTING WATER MAIN

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

PLACE TRENCH BACKFILL FOR 3.1 m (10') ON EITHER SIDE OF SEWER LINE

EXISTING SEWER LINE

3.1 m (10'-0")   3.1 m (10'-0")

PROPOSED WATER MAIN

CASING

460 (18) MINIMUM

CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 50 (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 460 (18) MINIMUM VERTICAL SEPARATION FOR 3.1 m (10') HORIZONTALLY

PROPOSED WATER MAIN

EXISTING SEWER LINE

* LESS THAN 460 (18)

* NOT ALLOWED MUST MAINTAIN 460 (18) VERTICAL SEPARATION

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN BELOW EXISTING SEWER LINE

POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATER MAIN CASING AND SEWER
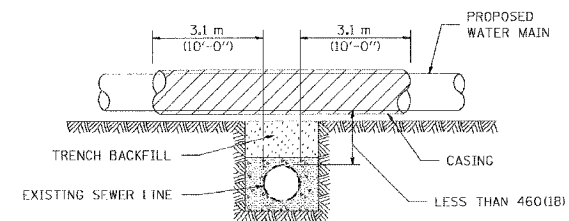
3.1 m (10'-0")   3.1 m (10'-0")

PROPOSED WATER MAIN

TRENCH BACKFILL

CASING

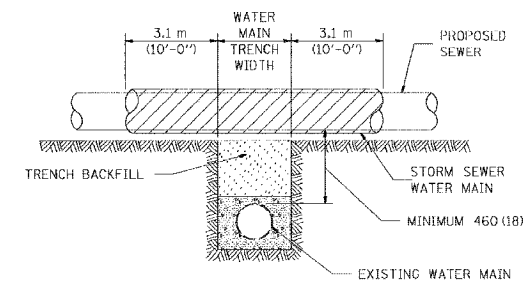EXISTING SEWER LINE

LESS THAN 460 (18)

CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 50 (2) LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE

PROVIDE ADEQUATE SUPPORT FOR SEWER TO PREVENT SETTLING AND BREAKING THE WATER MAIN.

WATER MAIN TRENCH WIDTH

3.1 m (10'-0")   3.1 m (10'-0")

PROPOSED SEWER

STORM SEWER WATER MAIN

TRENCH BACKFILL

MINIMUM 460 (18)

EXISTING WATER MAIN

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

EXISTING WATER MAIN BELOW PROPOSED SEWER LINE WITH MINIMUM 460 (18) VERTICAL SEPARATION

32.1