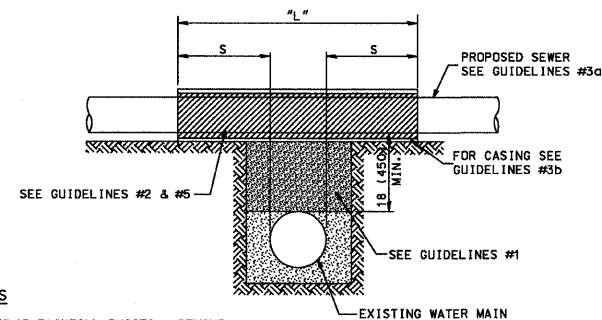


All dimensions are in inches (millimeters) unless otherwise shown.

PROPOSED SEWER LINE WITH 18 (450) MINIMUM VERTICAL SEPARATION ABOVE EXISTING WATER MAIN

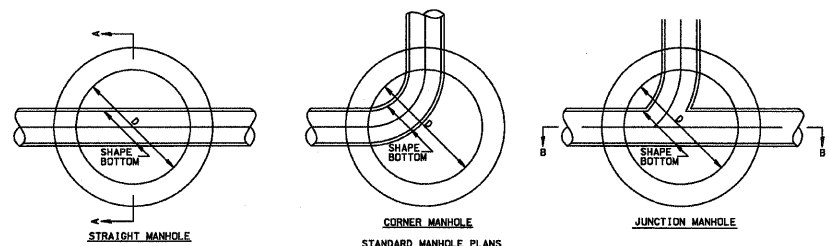


GUIDELINES

- IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
- OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO 12 (300) OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
- a. CONSTRUCT "L" OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR b. USE "L" OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.
- 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.

NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10' (3m) OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN.

All dimensions are in inches (millimeters) unless otherwise shown.



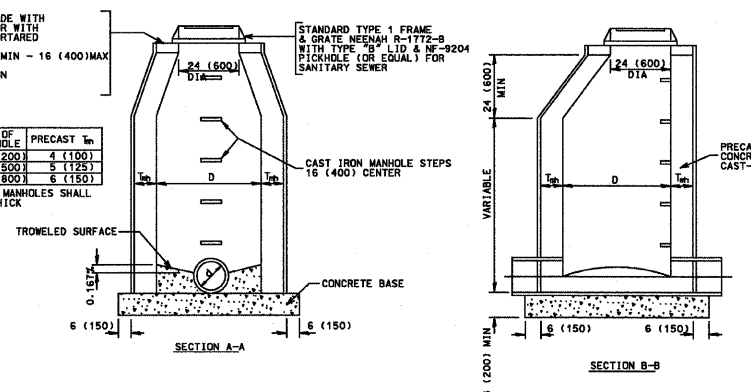
FINAL ADJUSTMENT TO BE MADE WITH PRECAST ADJUSTING RINGS OR WITH BRICKS LAID RADIALLY & MORTARED

ADJUSTMENT RANGE: 4 (100)MIN - 16 (400)MAX

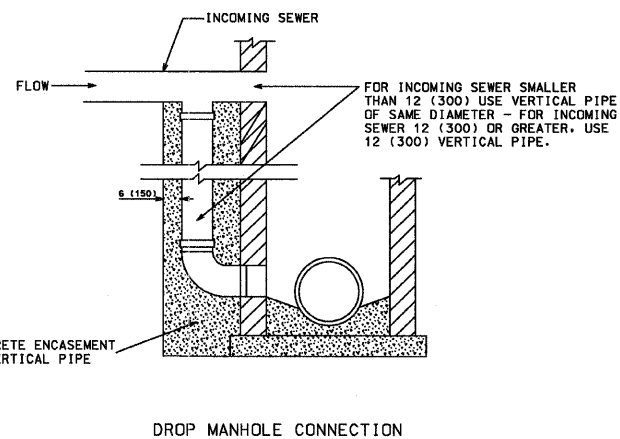
MASTIC IS NOT PERMITTED ON ADJUSTING RINGS

DIA OF SEWER	DIA OF MANHOLE	PRECAST 1m
8 (200) THRU 30 (750)	48 (1200)	4 (100)
33 (825) THRU 48 (1200)	60 (1500)	5 (125)
54 (1350)	72 (1800)	6 (150)

ALL CAST-IN-PLACE MANHOLES SHALL BE 1/2" = 150 (6) THICK



All dimensions are in inches (millimeters) unless otherwise shown.



NOTES

PAYMENT FOR DROP MANHOLE CONNECTION TO BE MADE AT CONTRACT UNIT PRICE PER EACH "DROP MANHOLE CONNECTION".

TO BE USED IN CONJUNCTION WITH TYPE "A" MANHOLES WHERE SEWER ENTERS 24 (600) OR MORE ABOVE LOWEST INVERT. NOT TO BE USED FOR INLET OR CATCH BASIN CONNECTION.

THIS DETAIL APPLIES TO INCOMING SEWERS OF 18 (450) DIA. OR LESS.

GENERAL SANITARY SEWER NOTES:

- THIS CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
 - "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", 6TH EDITION, DATED JULY, 2009.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES AND HAVING ALL UNDERGROUND UTILITIES PROPERLY LOCATED PRIOR TO ANY CONSTRUCTION.
- ALL UTILITY TRENCHES SHALL BE BACKFILLED WITH SELECTED GRANULAR MATERIAL, WHERE THE TRENCH IS UNDER OR WITHIN 2 FEET OF PROPOSED OR EXISTING CURB, PAVEMENT OR SIDEWALK.
- ALL DUCTILE IRON (D.I.) SANITARY SEWER MAIN SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
 - CLASS 52 DUCTILE IRON PIPE PER AWWA C-150 WITH A 40 MIL THICK, FACTORY APPLIED, CERAMIC EPOXY INTERIOR LINING. INTERIOR LINING SHALL BE PROTECTO 401; OR APPROVED EQUAL.
 - RUBBER GASKETS PER AWWA C-111.
 - PUSH-ON JOINTS PER AWWA C-151.
 - PIPE SHALL BE WRAPPED IN A MINIMUM 8 MIL THICK POLYETHYLENE FILM PER ANSI/AWWA C-105/A21.5-02.
- BEDDING - CLASS IB. GRANULAR CRADLE & BACKFILL; THE BEDDING AND HAUNCHING MATERIAL SHALL BE CRUSHED STONE WITH A SIZE RANGE 3/4" - 1/4" WHICH MEETS THE REQUIREMENTS OF I.D.O.T. GRADUATION CA-11 AND THAT THE BEDDING SHALL HAVE A MINIMUM BEDDING CLASS OF CLASS B WHICH RESULTS IN A MINIMUM SAFETY FACTOR OF 1.20 AS CALCULATED PER ASTM C 12-04.
- TESTING AND INSPECTION OF SANITARY SEWERS FOR ACCEPTABILITY SHALL BE CONDUCTED BY:
 - EXFILTRATION OF AIR UNDER PRESSURE
 - LAMPING
 - TELEVISION
- ALL SANITARY MANHOLES SHALL BE 4 FEET IN DIAMETER. LEAKAGE TESTING OF ALL MANHOLES SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C1244-93, VOL. 4.05.

#FILE# 84786
 #DATE# 02/25/11
 #BY# JTC/JWK
 #TOWN# TOWN OF NORMAL
 #PROJECT# 07-00233-00-BR
 #DRAWN# JTC/JWK
 #CHECKED# MSW
 #DATE# 02/25/11

DESIGNED -	BAB/JCZ	REVISED -	
DRAWN -	JTC/JWK	REVISED -	
CHECKED -	MSW	REVISED -	
DATE -	02/25/11	REVISED -	

TOWN OF NORMAL

ENGINEERING DEPARTMENT

STANDARD 7.07A

SHEET 1 OF 1

SANITARY SEWER DETAILS

SCALE: N.T.S. SHEET NO. 13 OF 40 SHEETS STA. B+30 TO STA. 11+75

BROADWAY AVENUE OVER SUGAR CREEK

SECTION 07-00233-00-BR

MCLEAN COUNTY

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	13
S.N. 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT				