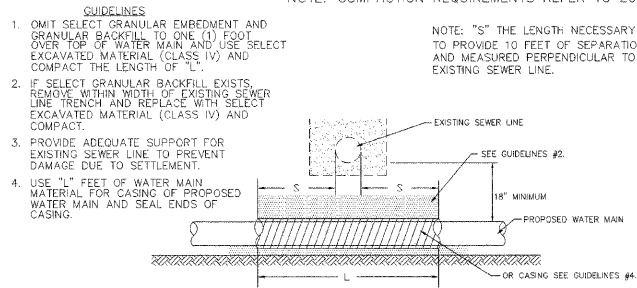
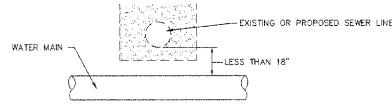


PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION.

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B



PLACEMENT OF WATER MAIN BELOW EXISTING OR PROPOSED SEWER LINE WITH LESS THAN 18" MINIMUM VERTICAL SEPARATION. NOT ALLOWED*

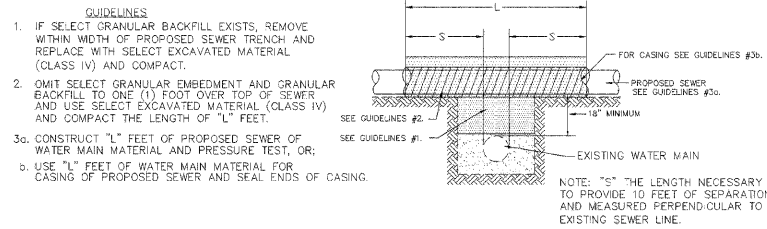


MUST MAINTAIN 18" VERTICAL SEPARATION

WATER AND SEWER SEPARATION REQUIREMENTS

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

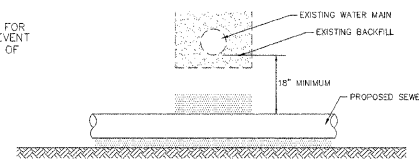
NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B



WATER AND SEWER SEPARATION REQUIREMENTS

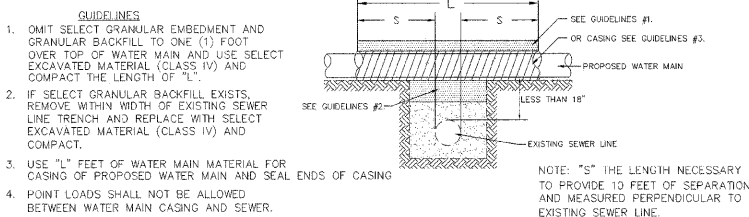
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH 18" MINIMUM VERTICAL SEPARATION.

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



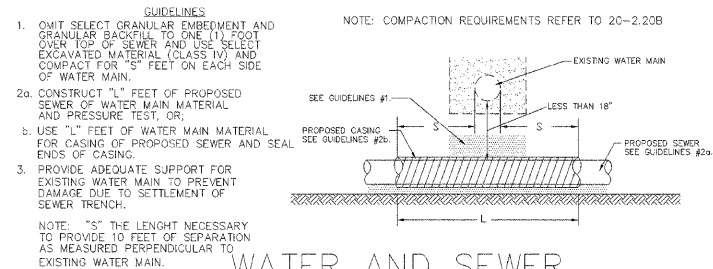
PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" VERTICAL SEPARATION.

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B



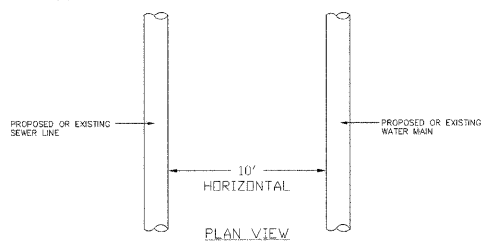
WATER AND SEWER SEPARATION REQUIREMENTS

PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH LESS THAN 18" VERTICAL SEPARATION.

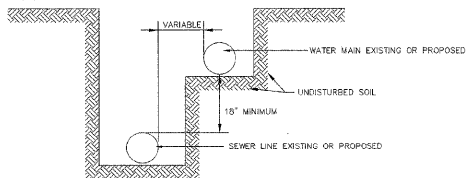


WATER AND SEWER SEPARATION REQUIREMENTS

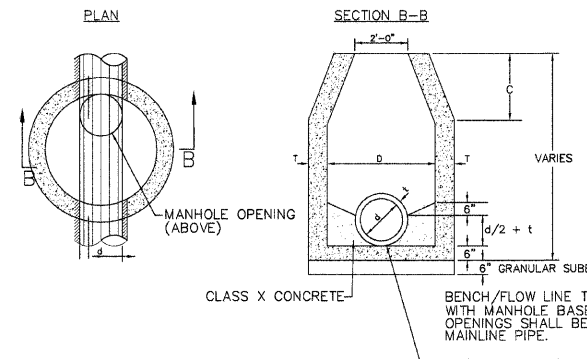
WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER), NO SPECIAL CONSTRUCTION REQUIRED. SEE SECTION 41-2.01B (1)



WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10 FEET FROM EXISTING WATER (OR SEWER), DETAILS BELOW SHALL APPLY. SEE SECTION 41-2.01B (2)



WATER AND SEWER SEPARATION REQUIREMENTS

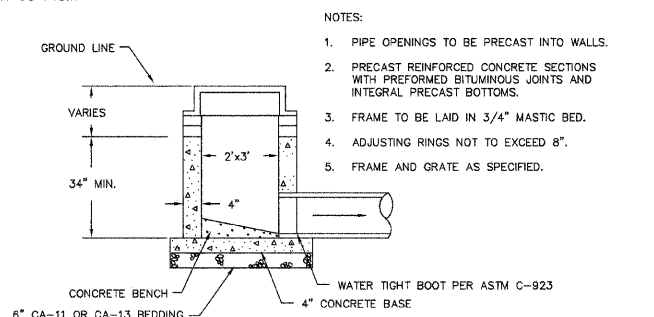


ALTERNATE MATERIALS FOR WALLS	D	C	T (MIN.)
PRECAST REINFORCED CONCRETE SECTIONS	4'-0"	2'-6"	4"
	5'-0"	3'-0"	5"

1. ALL MANHOLE BASES SHALL BE FURNISHED WITH FLEXIBLE SLEEVES PER A.S.T.M. C-923 FOR CONNECTION OF PIPE.
2. MANHOLE TYPE "A" TO BE PROVIDED WITH FRAME AND CLOSED LID.
3. EXTERIOR NEOPRENE CHIMNEY SEAL REQUIRED ON ALL MANHOLE RIMS.

*** FOR OPTIONAL PRECAST CONCRETE FLAT SLAB TOP REFER TO IDOT STANDARD 602406

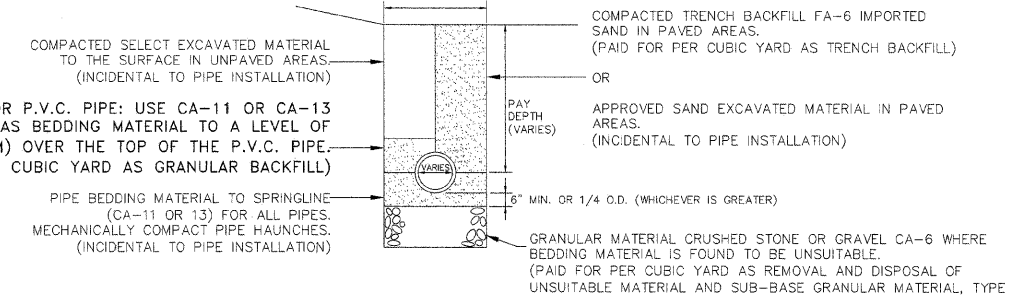
DETAIL OF MANHOLE TYPE A (4 FT. AND 5 FT. DIAMETER)



HIGH CAPACITY INLET

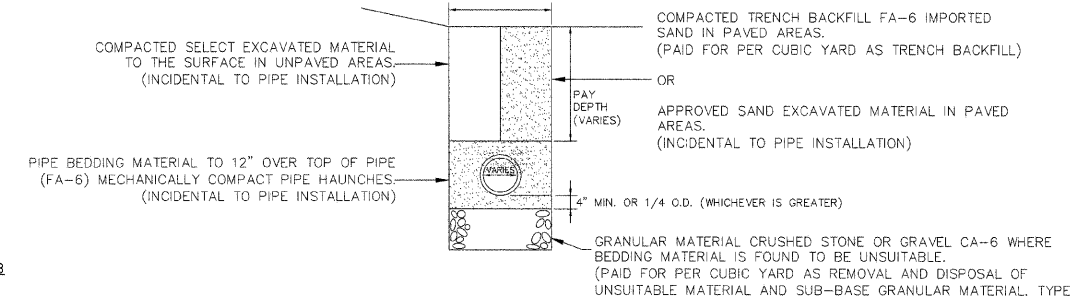
1. ALL INLET BASES SHALL BE FURNISHED WITH FLEXIBLE SLEEVES PER A.S.T.M. C-923 FOR CONNECTION OF PIPE.

MAXIMUM TRENCH PAY WIDTH = 9' + O.D. + 9", WHEN TRENCH < 5 FT DEEP
MAXIMUM TRENCH PAY WIDTH = 18' + O.D. + 18", WHEN TRENCH ≥ 5 FT DEEP
(TRENCH DEPTH = SUBGRADE ELEVATION - PIPE INVERT ELEVATION)

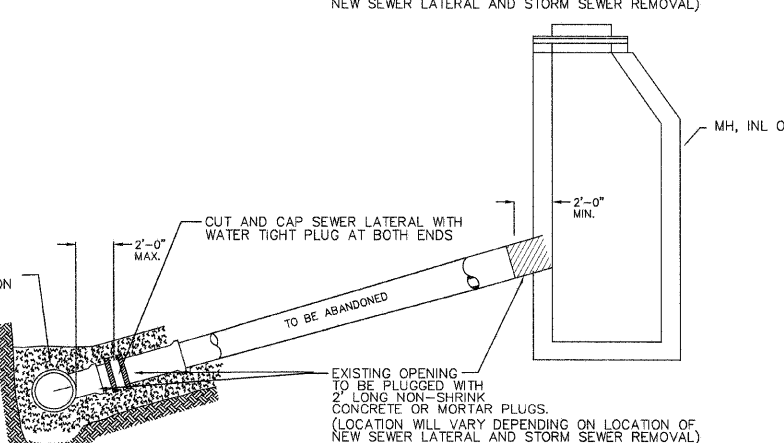
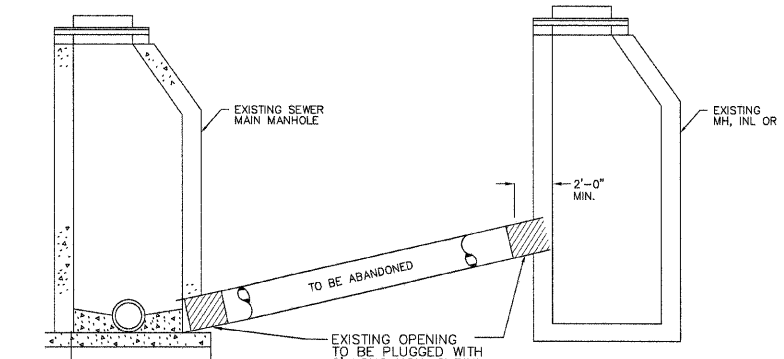


SEWER TRENCH DETAIL

MAXIMUM TRENCH PAY WIDTH = 9' + O.D. + 9", WHEN TRENCH < 5 FT DEEP
MAXIMUM TRENCH PAY WIDTH = 18' + O.D. + 18", WHEN TRENCH ≥ 5 FT DEEP
(TRENCH DEPTH = SUBGRADE ELEVATION - PIPE INVERT ELEVATION)



WATER MAIN TRENCH DETAIL



PLUG EXISTING STORM SEWERS (MANHOLE, CATCH BASIN, INLET OR SEWER MAIN)

PLANS PREPARED BY: CITY OF EVANSTON PUBLIC WORKS DEPARTMENT TRANSPORTATION AND ENGINEERING DIVISION PHONE: (847) 866-2924

DESIGNED — DSM, AA	REVISED — 5/20/09 PER MWRD
DRAWN — DSM	REVISED — 5/20/09 PER IDOT
CHECKED — SN, PC	REVISED —
DATE — 2 / 3 / 2009	REVISED —

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS SHERIDAN ROAD

SCALE: N.T.S. SHEET NO. 22 OF 31 SHEETS STA. N.A. TO STA. N.A.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2865	08-00250-01-PV	COOK	31	22
CONTRACT NO. 63189				ILLINOIS FED. AID PROJECT