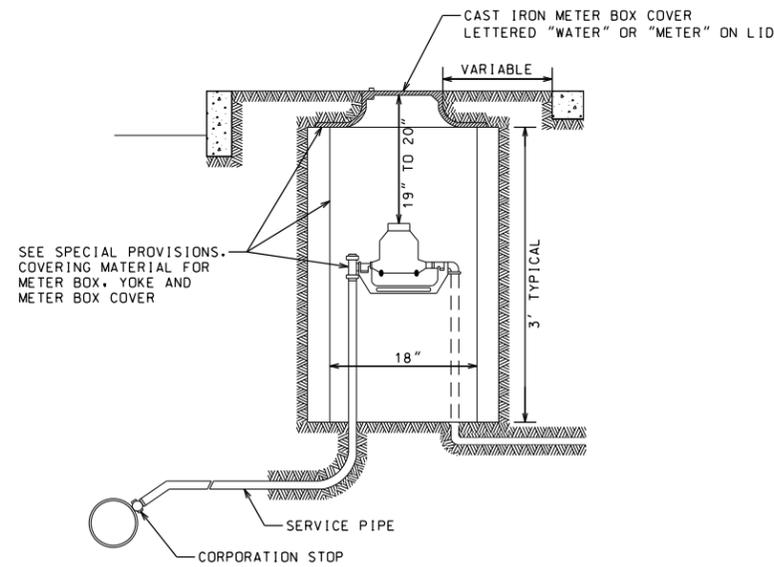


DETAIL SHEET

NOT TO SCALE



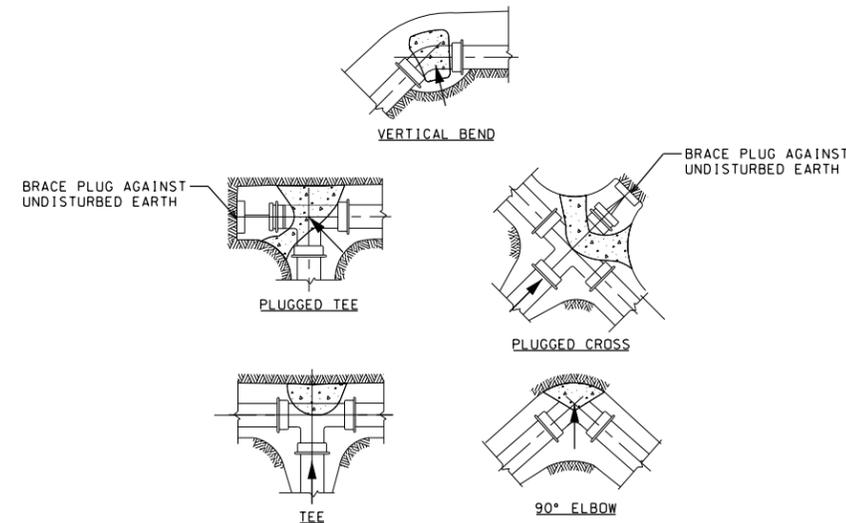
WATER METER BOX INSTALLATION

TYPICAL TAP SERVICE PIPING (COPPER)

WATER AND STORM SEWER SEPARATION (HORIZONTAL)

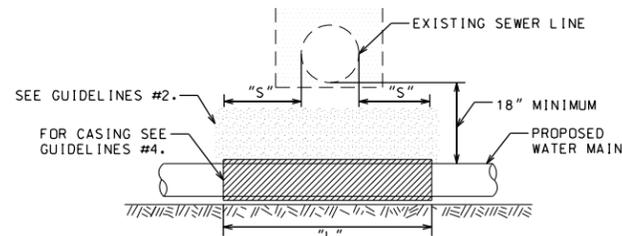
PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION.

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B



NOTE:
ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH. ARROWS INDICATE DIRECTION OF THRUST. ALL BLOCKS TO BE 3000 P.S.I. CONCRETE. ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

TYPICAL THRUST BLOCK INSTALLATIONS

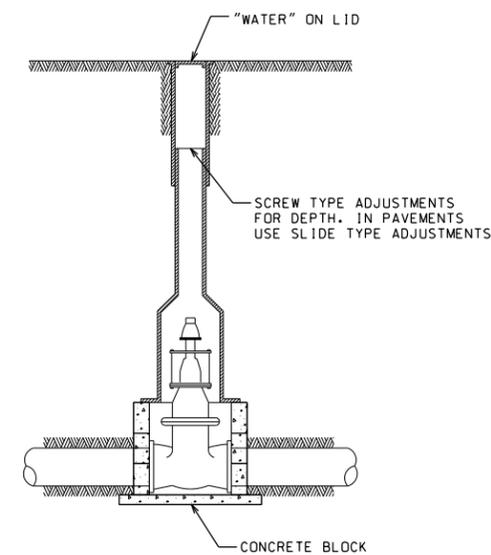


NOTE:
"S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AND MEASURED PERPENDICULAR TO EXISTING SEWER LINE.

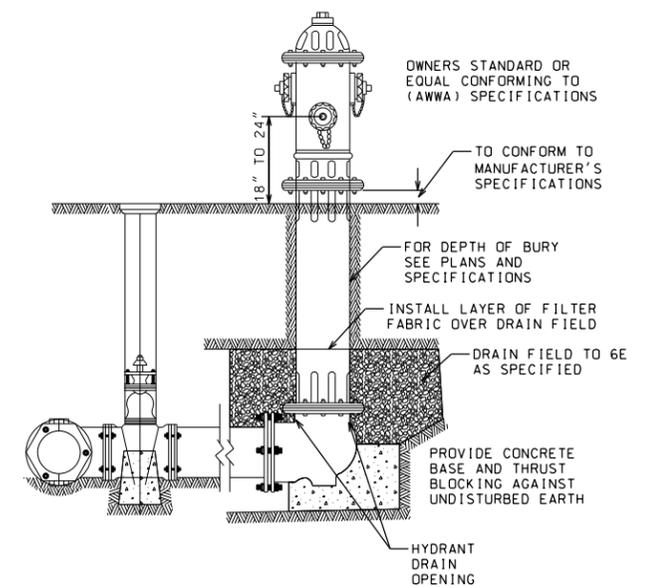
GUIDELINES

1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.
4. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING.

WATER AND STORM SEWER SEPARATION (VERTICAL)



TYPICAL VALVE BOX INSTALLATION



NOTES:

1. CONCRETE BASE AND BLOCKING MATERIAL SHALL NOT BLOCK NOR OBSTRUCT HYDRANT DRAIN AS SHOWN IN AWWA MANUAL M 17

FIRE HYDRANT ASSEMBLY

FILE NAME =	USER NAME = default	DESIGNED - DRH	REVISED -
P:\Projects\513501\CADD\DN\0876885-sht\drain-details.dgn		DRAWN - DRH	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - VAM	REVISED -
	PLOT DATE = 1/25/2013	DATE - 01/25/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

UTILITY RELOCATION DETAILS

SCALE: SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	60-(30,31,128)-3	MADISON	529	229
CONTRACT NO. 76B85				
ILLINOIS FED. AID PROJECT				