

13. ALL FITTINGS SHALL BE RESTRAINED WITH POURED CONCRETE THRUST BLOCK, UNLESS NOTED OTHERWISE ALL VALVES SHALL BE RESTRAINED WITH MECHANICAL RESTRAINERS. NON BLOCKED

14. EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, 1995 AS AMENDED. IT WAS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES, CONSERVATION SERVICES.

15. ALL EXCAVATION SHALL BE KEPT DEWATERED DURING CONSTRUCTION OPERATIONS UNTIL BACKFILL

16. CONSTRUCTION OPERATIONS WILL BE REQUIRED ADJACENT TO PRIVATE PROPERTY. THE OWNER DOES NOT AND WILL NOT ASSUME RESPONSIBILITY FOR ANY DAMAGE TO PRIVATE PROPERTY. CLEANUP OF CONSTRUCTION AREAS IS CONSIDERED TO BE AN ESSENTIAL AND INCIDENTAL PART OF THE CONTRACT.

17. ALL WORK BY CITY FORCES. PAY QUANTITIES DO NOT APPLY

FIRE HYDRANT

POURED CONCRETE

BASE AND BLOCKING

SHALL NOT BLOCK HY-

FILTER FABRIC

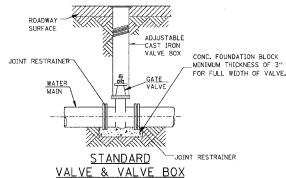
OTHER)

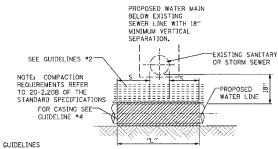
1" CLEAN AGG-

REGATE (CA 7 OR

DRANT DRAINS PER

AWWA M 17





JIDELINES

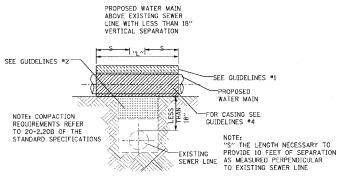
OMIT SELECT GRANULAR EMBEMBENT AND GRANULAR
BACKFILL TO ONE FOOT OVER TOP OF WATER MAIN AND USE SELECT
EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
IF SELECT GRANULAR BACKFILL EXISTS REMOVE WITHIN WIDTH OF
EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED

EXISTING SEMER LINE INENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.

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

USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING

## VERTICAL SEPARATION



GUIDELINES

1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR
BACKFILL TO ONE FOOT OVER TOP OF WATER MAIN AND USE SELECT
EXCAVATED MATERIAL (CLASS 1)/A AND COMPACT THE LENGTH OF "L".

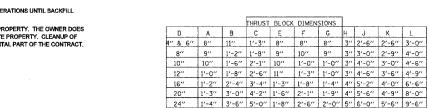
2. IF SELECT GRANULAR BACKFILL EXISTS REMOVE WITHIN WIDTH OF
EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED
MATERIAL (CLASS IN) AND COMPACT.

3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT
DAMAGE DIFT TO SETTIEMENT.

DAMAGE DUE TO SETTLEMENT.

4. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING

VERTICAL SEPARATION



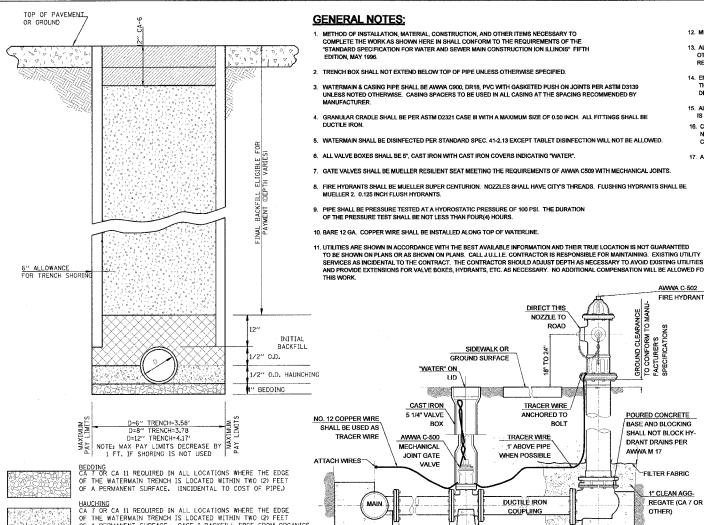
PLAN DOUBLE ACTING DOUBLE ACTING STEEL WEDGE PLAN EMBED #6 BARS - 22" AND <u>ELEVATION</u> THRUST BLOCK FOR VERTICAL ELBOW PAINT EXPOSED BARS WITH TWO COATS OF APPROVED BITUMINOUS PAINT SECTION Y-Y

VERTICAL 1/16 & 1/8 BEND 2/3 D 8" MIN. PLAN D/4 | E 6 PLAN

<u>PLAN</u>

THRUST BLOCK DETAIL

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	TEEINOIS BEFANTWENT OF TRANSPORTATION
		TYPICAL WATER DETAILS
		THE WATER BETTIES
		SCALE: VERT. DRAWN BY KOJ
		DATE CHECKED BY BWC



HAUCHING
CA 7 OR CA 11 REQUIRED IN ALL LOCATIONS WHERE THE EDGE
OF THE WATERMAIN TRENCH IS LOCATED WITHIN TWO (2) FEET
OF A PERMANENT SURFACE. CASE I BACKFILL FREE FROM ORGANICS
AT ALL OTHER LOCATIONS. (INCIDENTAL TO COST OF PIPE.)

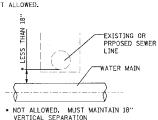
INITIAL BACKFILL
CA 15, CA 16, CM 15 OR CM 16 REQUIRED IN ALL LOCATIONS WHERE
THE EDGE OF THE WATERMAIN TRENCH IS LOCATED WITHIN TWO (2) FEET
OF A PERMANENT SURFACE. CASE I BACKFILL FREE FROM ORGANICS
AT ALL OTHER LOCATIONS. (INCIDENTAL TO COST OF PIPE.)

FINAL BACKFILL
CA 15, CA 16, CM 15 OR CM 16 REQUIRED IN ALL LOCATIONS WHERE
THE EDGE OF THE WATERMAIN TRENCH IS LOCATED WITHIN TWO (2) FEET
OF A PERMANENT SURFACE EXCEPT TOP 12" TO BE CA-6.

CASE I BACKFILL FREE FROM ORGANICS AT ALL OTHER LOCATIONS. (ELIGIBLE FOR PAYMENT)

## TRENCHING DETAIL

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



VERTICAL SEPARATION

PROPOSED OR EXISTING SEWER LINE WATER MAIN WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER PLAN VIEW VARIABLE WATER MAIN UNDISTURBED SEWER LINE EXISTING OR

AND PROVIDE EXTENSIONS FOR VALVE BOXES, HYDRANTS, ETC. AS NECESSARY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR

SIDEWALK OR

LID

BOX

CASTIRON

5 1/4" VALVE

AWWA C-500

JOINT GATE

DUCTILE IRON

COUPLING

TRACER WIRE

MAIN.

DIRECT THIS NOZZLE TO

TRACER WIRE

TRACER WIRE

WHEN POSSIBLE

COUPLING

VPOURED CONCRETE THRUST

BLOCKING OR MECHANICALLY

RESTRAINED JOINTS (TYP.)

**STANDARD** HYDRANT & VALVE BOX

ROAD

WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10 FEET FROM EXISTING WATER (OR SEWER), DETAIL ABOVE SHALL APPLY