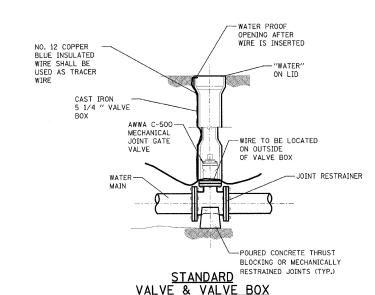
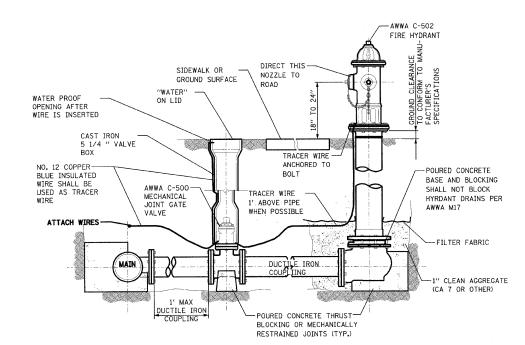
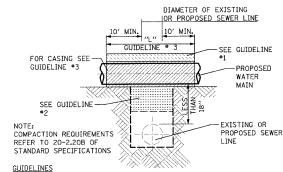
DETAIL FOR INSERTING GATE VALVE IN EXISTING WATER MAIN





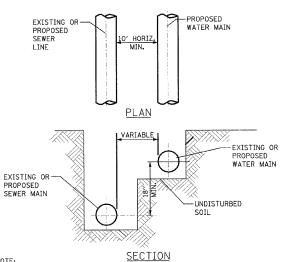
STANDARD HYDRANT & VALVE BOX



- GUIDELINES

 1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE 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. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING.
- 4. PROVED ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.

WATER MAIN ABOVE SEWER LINE WITH LESS THAN 18" VERITCAL SEPERATION

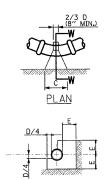


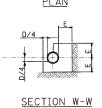
1. WHEN PROPOSED WATER MAIN IS LOCATED 10' OR MORE FROM EXISTING OR PROPOSED SEWER LINE NO SPECIAL CONSTRUCTION REQUIRED.

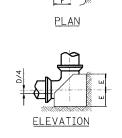
2. IF HORIZONTAL SEPERATION BETWEEN PROPOSED WATER MAIN & PROPOSED OR EXISTING SEWER LINE IS LESS THAN 10' MIN., PROPOSED WATER MAIN & PROPOSED OR EXISTING SEWER LINE MUST BE SEPERATED 18" VERTICAL IN UNDISTURED SOIL.

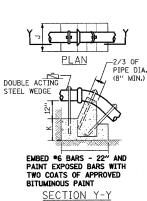
HORIZONTAL SEPARATION







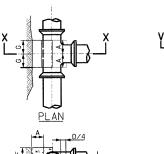




THRUST BLOCK FOR HORIZONTAL BEND

THRUST BLOCK FOR VERTICAL ELBOW

VERTICAL 1/16 & 1/8 BEND





SECTION "X-X"

THRUST BLOCK FOR TEES

THRUST BLOCK FOR CAP

SECTION "V-V"

			THRUST BLOCK DIMENSIONS							
D	Α	В	С	E	F	G	Н	J	К	L
4" & 6"	8′′	11"	1'-3"	8"	8"	8"	3"	2'-6"	2'-6"	3'-0"
8′′	9"	1'-2"	1'-8''	9"	10"	9"	3"	3'-0"	2'-9"	4'-0"
10"	10"	1'-6"	2'-1"	10"	1'-0"	1'-0"	3"	4'-0"	3'-0"	4'-6"
12"	1'-0"	1'-8"	2'-6"	11"	1'-3"	1'-0"	3"	4'-6"	3'-6"	4'-9"
16"	1'-2"	2'-4"	3'-4"	1'-3"	1'-8''	1'-4"	4"	5'-2"	4'-0"	6'-6"
20"	1'-3"	3'-0"	4'-2"	1'-6"	2'-1"	1'-9"	4"	5'-6"	4'-9''	8'-0"
24"	1'-4"	3'-6"	5'-0"	1'-8"	2'-6"	2'-0"	5"	6'-0"	5'-6"	9'-6"

MINIMUM REQUIRED BEARING DIMENSIONS. NOTE: CARRY CONCRETE TO SOLID GROUND

THRUST BLOCK DETAILS

ILLINOIS DEPARTMENT OF TRANSPORTATION				
_				
+				
TYPICAL	WATER DETAILS			
-				
- VEDT				
	DRAWN BY KOJ			
DATE	CHECKED BY LWJ			
	TYPICAL SCALE: VERT. HORIZ.			