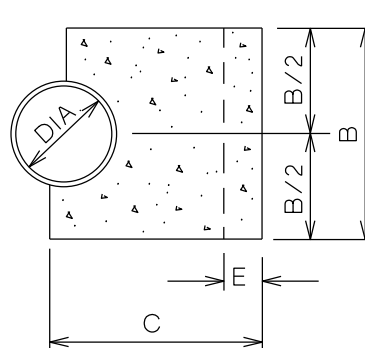
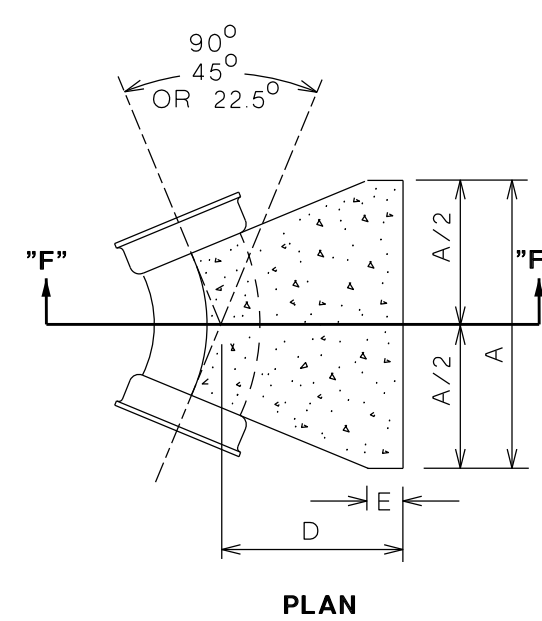


STD. ANCHORAGE DETAILS FOR 45° & 22 1/2° BENDS

DIA. OF MAIN	A	B	C	D	E
6"	2'-0"	2'-4"	1'-8"	1'-6"	0'-9"
8"	3'-4"	3'-0"	1'-11"	1'-9"	0'-9"
12"	5'-6"	4'-0"	2'-4"	2'-1"	0'-9"
16"	6'-0"	5'-0"	3'-0"	2'-8"	1'-0"

DIA. OF MAIN	A	B	C	D	E
8"	2'-4"	2'-0"	1'-11"	1'-9"	0'-9"
12"	3'-6"	2'-6"	2'-4"	2'-1"	0'-9"
16"	5'-4"	3'-0"	3'-0"	2'-8"	1'-0"

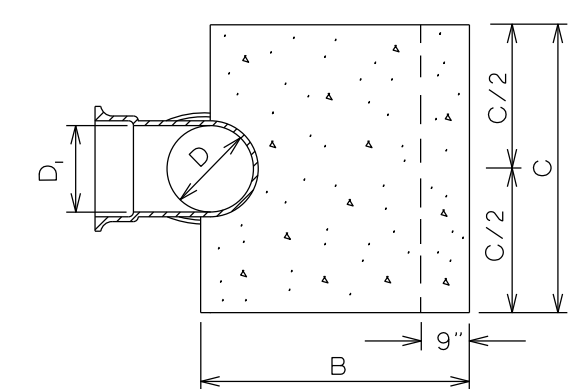
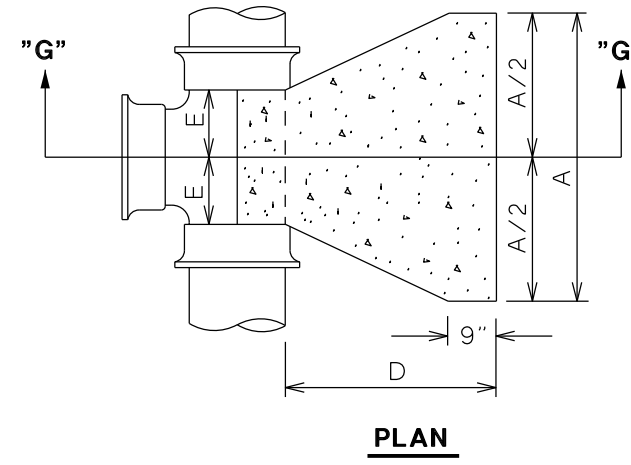
DIA. OF MAIN	A	B	C	D	E
12"	2'-6"	2'-0"	2'-0"	1'-9"	0'-9"
16"	3'-4"	2'-6"	3'-0"	2'-8"	1'-0"
20"	4'-0"	3'-0"	4'-0"	3'-6"	1'-0"



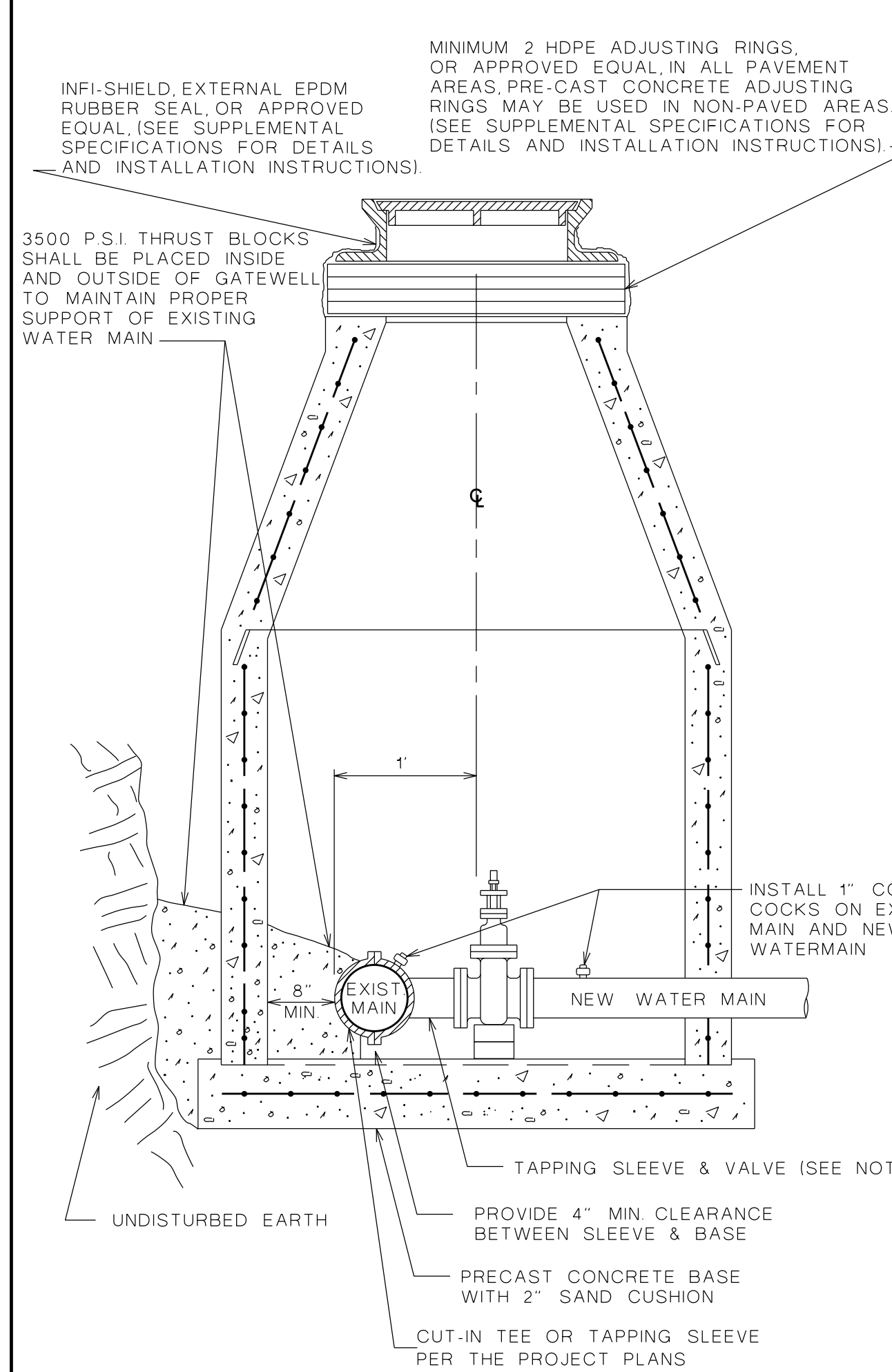
STD. THRUST BLOCK AT BENDS

TEE SIZE	D	D ₁	A	B	C	D	E
8"	8"	3'-0"	2'-3"	2'-0"	1'-9"	0'-6"	
12"	8"	3'-0"	2'-5"	2'-0"	1'-9"	0'-6"	
12"	12"	4'-0"	2'-9"	3'-0"	2'-1"	0'-8"	
16"	8"	3'-0"	2'-9"	2'-0"	1'-9"	0'-6"	
16"	12"	4'-0"	3'-1"	3'-0"	2'-1"	0'-8"	
16"	16"	5'-0"	3'-8"	4'-0"	2'-8"	0'-11"	

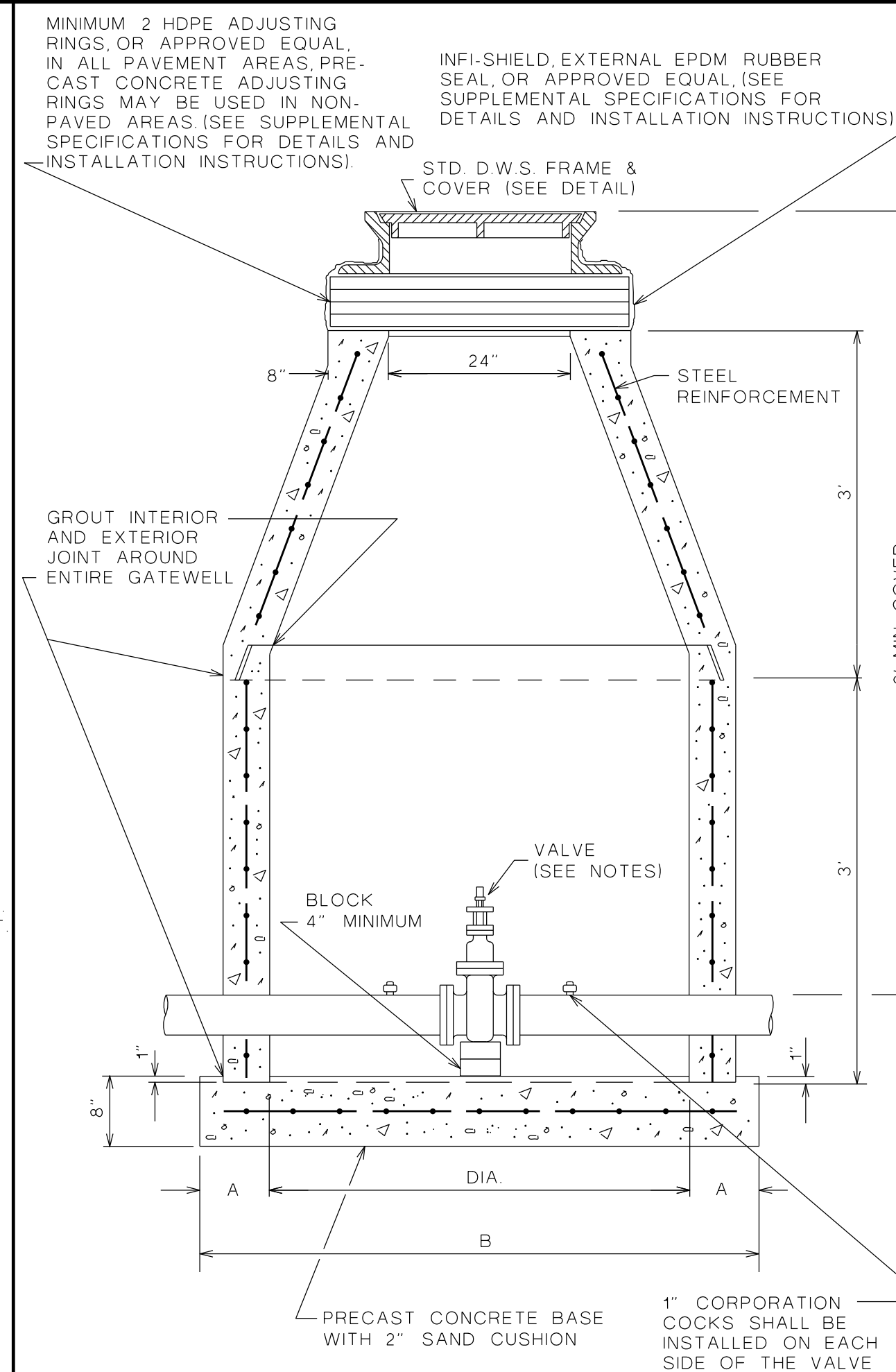
DIA. (D ₁) OF PIPE	D ₁	A	B	C
6"	2'-0"	1'-8"	1'-10"	
8"	3'-0"	1'-11"	2'-0"	
12"	4'-0"	2'-1"	3'-0"	
16"	5'-0"	2'-8"	4'-0"	



STD. THRUST BLOCK AT TEE & PLUG



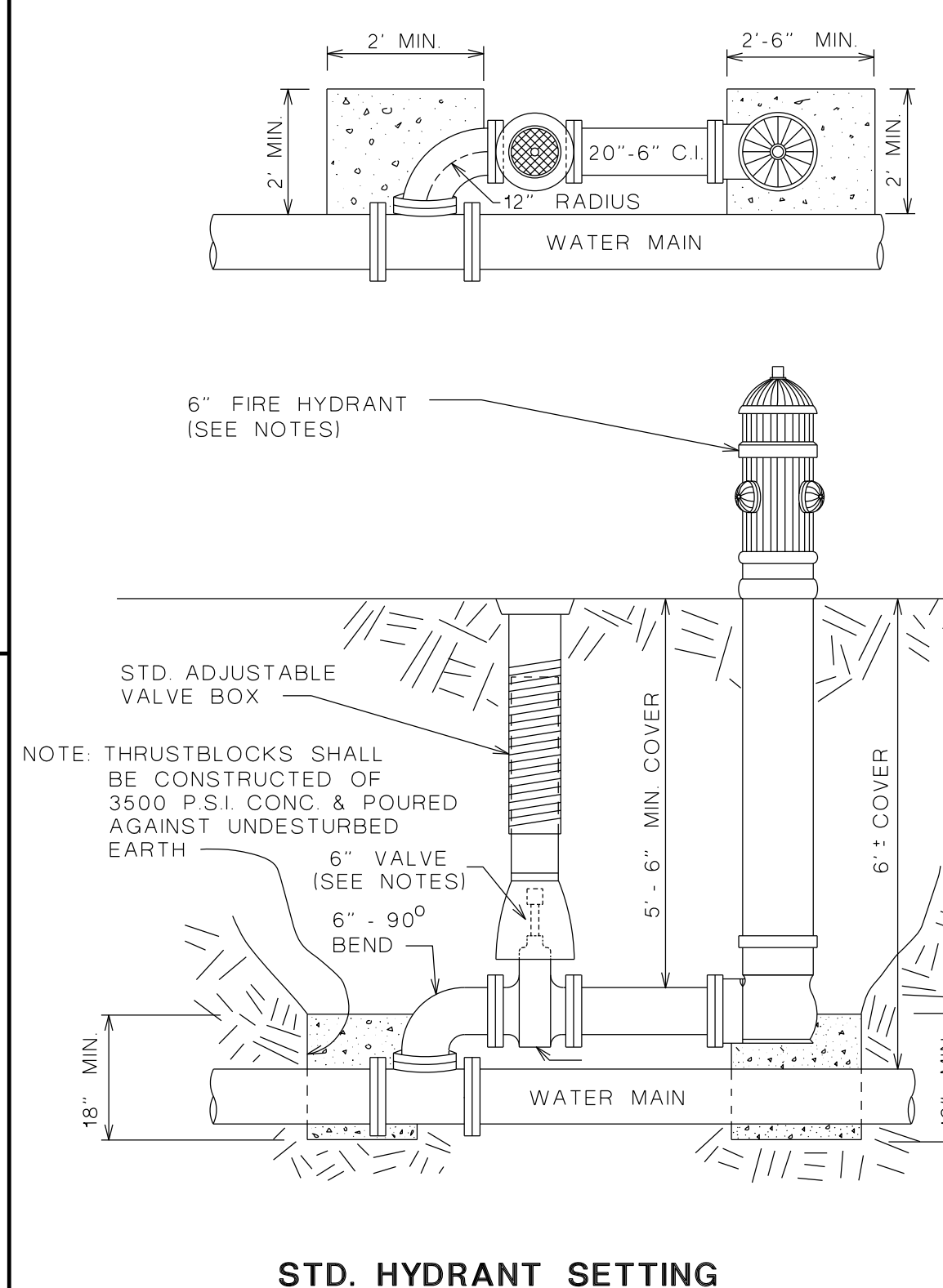
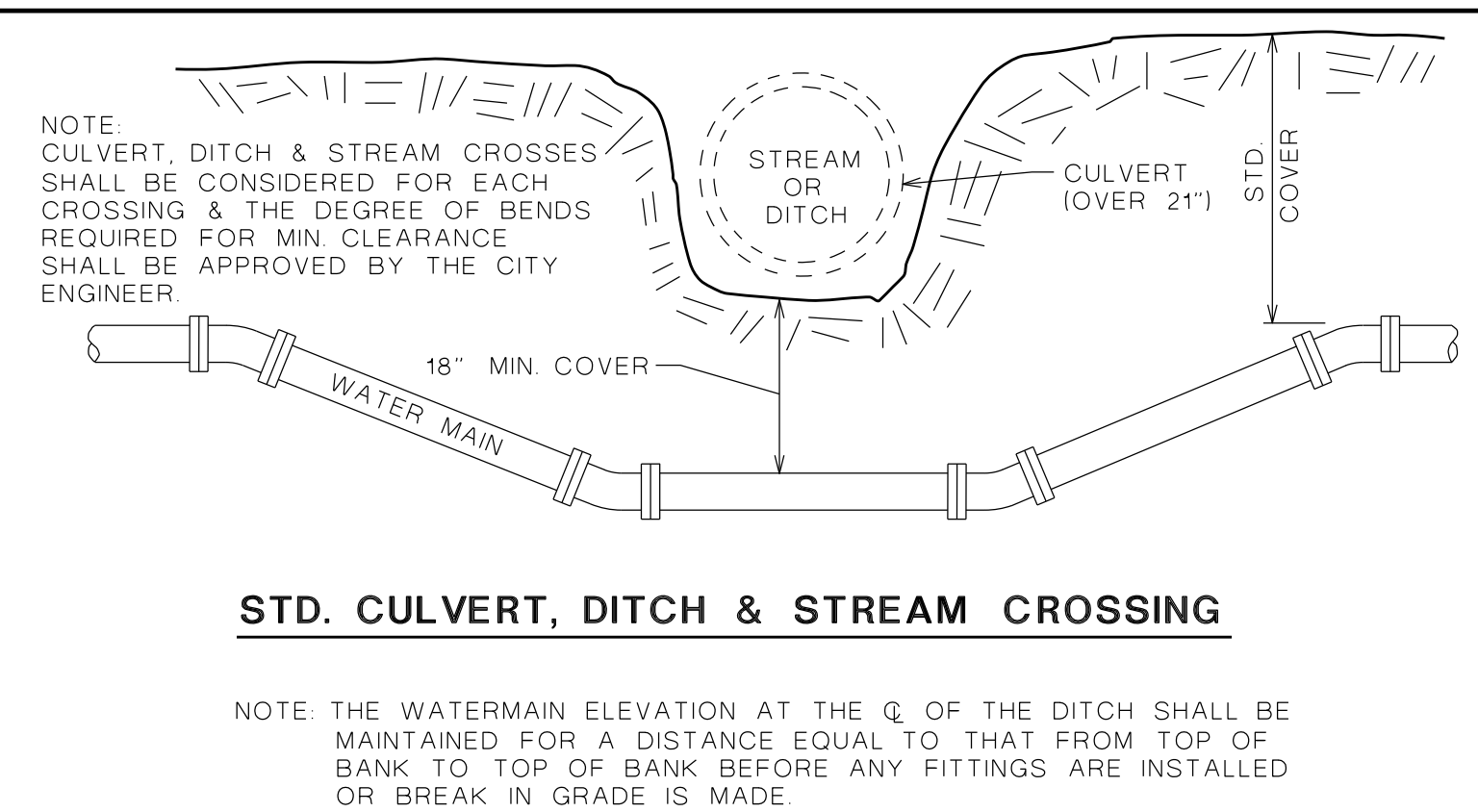
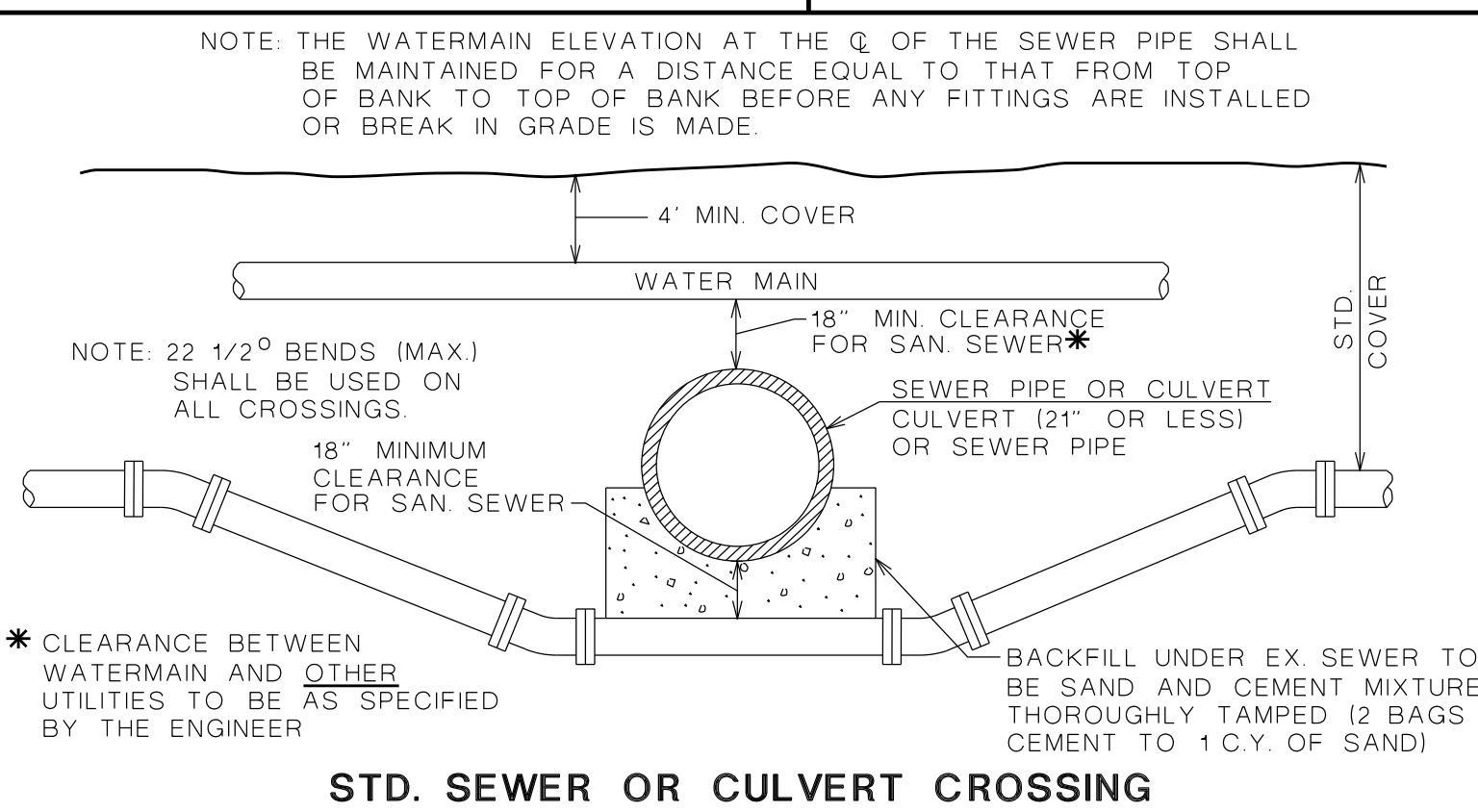
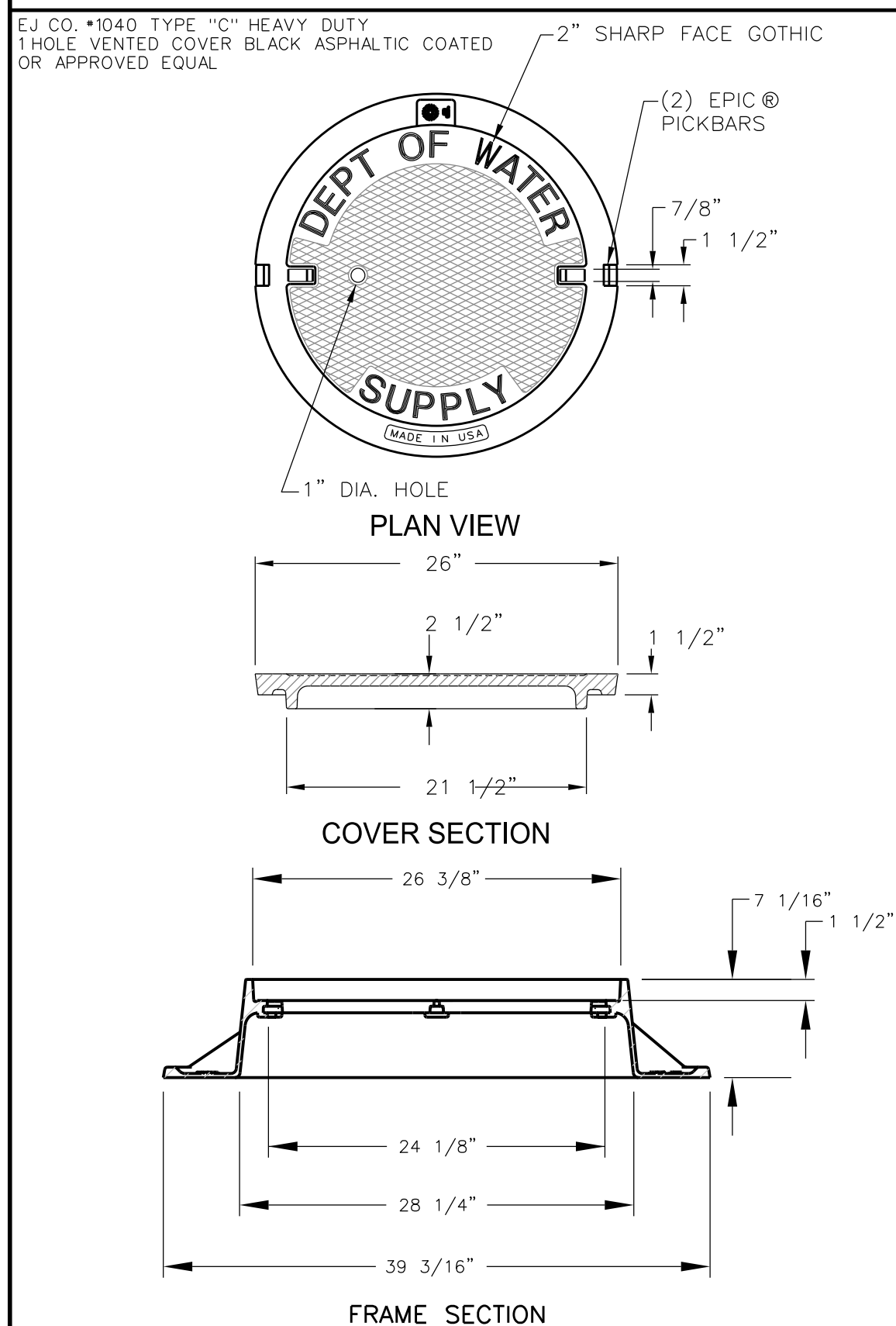
NOTE: THE TAPPING VALVE & WELL SHALL BE 6" DIA. FOR ALL TAPS FROM 8" ON 8" TO 12" ON 16". SEE CONSTRUCTION DRAWINGS FOR GATE WELL DIMENSIONS IF THE TAP IS OUTSIDE THESE DIMENSIONS.



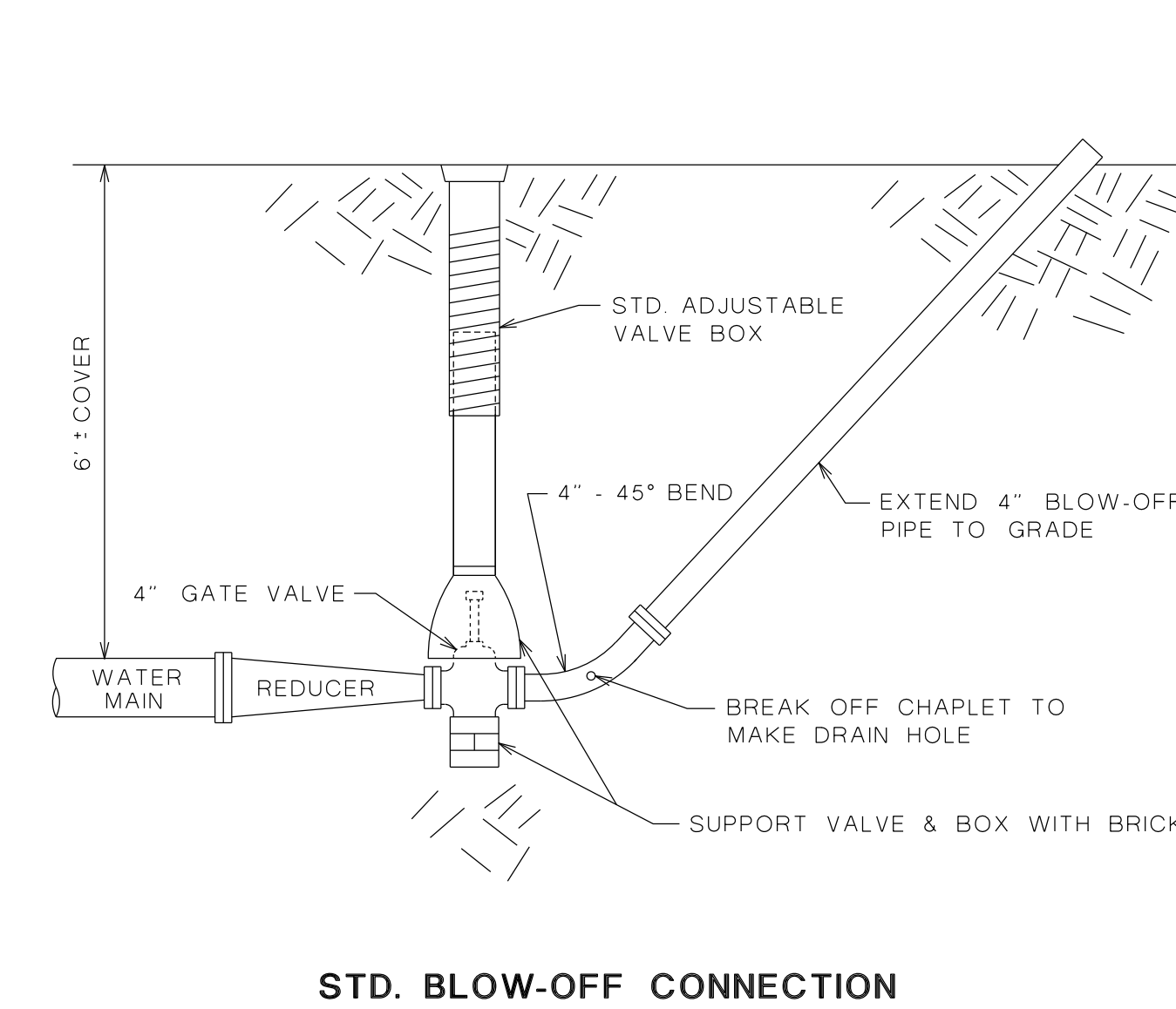
DIA.	60"	72"
A	5"	7"
B	84"	96"

SIZE OF MAIN	DIA. OF GATE WELL
6"	5'-0"
8"	5'-0"
10"	5'-0"
12"	6'-0"
14"	6'-0"
16"	6'-0"

STANDARD PRECAST GATE WELLS



STANDARD PRECAST TAPPING VALVE & WELL



NOTES: ALL 4" THROUGH 12" DIA VALVES TO BE EJ CO. FLOWMASTER® RESILIENT WEDGE GATE VALVES, OR APPROVED EQUAL

FIRE HYDRANTS WILL BE EJ CO. TYPE 5BR250, OR APPROVED EQUAL WITH TWO 3 3/4" PUMPER NOZZLES

TAPPING SLEEVES WILL BE ROMAC® SST, OR APPROVED EQUAL

REVISIONS	DATE	BY	CHANGE
4/9/2021	RMA		CHANGED EJ FRAME & COVER DETAIL
12/16/2011	RMA		CHANGED NAME "EAST JORDAN"
5/19/2009	RMA		NOTE CHANGES
3/10/2005	RMA		ADDED APPURTENANCE INFORMATION
04/14/2004	DDZ		REMOVED STEPS IN GATEWELL
12/4/2002	RMA		ADDED HDPE ADJ RINGS/INFI-SHIELD
1-29-93	W.L.K.		REDRAWN

DIVISION OF ENGINEERING
CITY OF WARREN, MICHIGAN

WATER MAIN DETAILS