

MINIMUM LENGTH OF PIPE WITH RESTRAINED JOINTS SHALL BE DESIGNED BY THE ENGINEER AND SHOWN ON THE PLANS.

NOTCH GATE BOX SLEEVE 6" H x 4" W TO FIT AROUND 2" PIPE (BOTH SIDES)

NOTCH GATE BOX SLEEVE 6" H x 4" W TO FIT AROUND 2" PIPE

END OF WATER MAIN, STATION AS SHOWN ON PLANS

INSTALL CONCRETE BLOCK AROUND CIRCUMFERENCE OF GATE BOX PIPE WITH 3/4" CRUSHED ROCK IN CENTER. SUPPORT VALVE WITH CONC BLOCK. (TYPICAL)

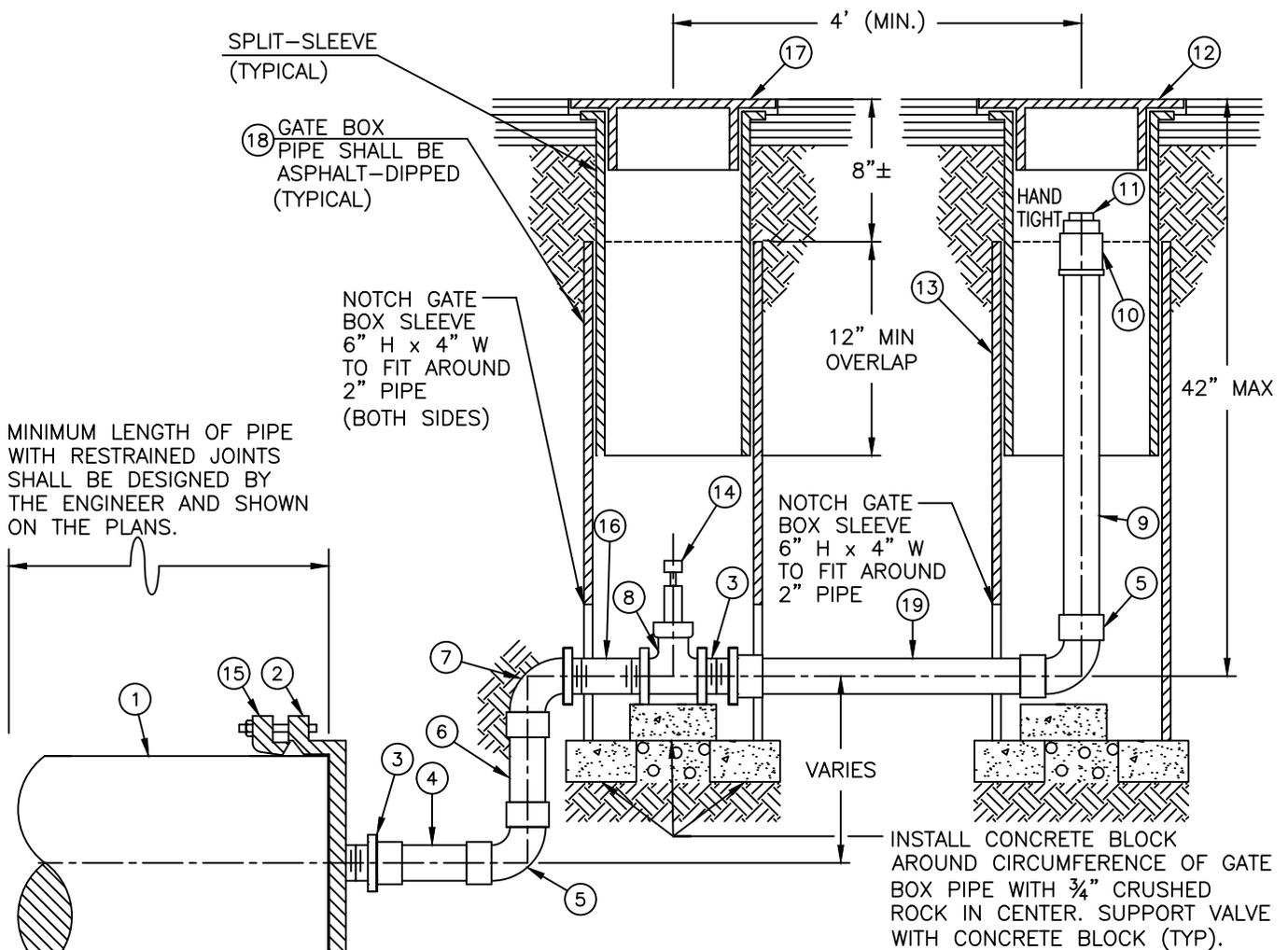
BILL OF MATERIALS

ITEM	QUANTITY	REFERENCE
① 4" THROUGH 12" MAIN	1	PER PLAN
② MAIN SIZE MJ CAP W/ 2" TAP, (FIPT)	1	PER PLAN
③ 2" x 12" BRASS NIPPLE	1	
④ 2" RW FULL BODY GATE VALVE, (FIPT)	1	
⑤ 2" 90° ELL (SW x SW)	1	
⑥ 2" x 30"± COPPER PIPE, HARD, NO JOINTS	VARIABLES	
⑦ 2" ADAPTER (SW x FIPT)	1	
⑧ 2" BRASS PLUG, (MIPT)	1	
⑨ 10" GATE BOX CAP AND SPLIT-SLEEVE	1	CWD-515
⑩ 10" DIA, 12 GA, STEEL PIPE	VARIABLES	
⑪ 2" SQUARE OPERATOR NUT	1	
⑫ MAIN SIZE GRIP RING KIT	1	
⑬ 8" GATE BOX CAP AND SPLIT-SLEEVE	1	CWD-515
⑭ 8" DIA, 12 GA, STEEL PIPE	VARIABLES	
⑮ 2" x 48"± COPPER PIPE, HARD, NO JOINTS	VARIABLES	
⑯ 2" ADAPTER (SW x MIPT)	1	



WATER DISTRIBUTION & TRANSMISSION PIPELINE CONSTRUCTION METHODS

TYPICAL 2" BLOW-OFF ASSEMBLY FOR MAINS WITH LESS THAN 42" OF COVER



INSTALL CONCRETE BLOCK AROUND CIRCUMFERENCE OF GATE BOX PIPE WITH 3/4" CRUSHED ROCK IN CENTER. SUPPORT VALVE WITH CONCRETE BLOCK (TYP).

BILL OF MATERIALS

ITEM	QUANTITY	REFERENCE
① 4" THROUGH 12" MAIN	1	PER PLAN
② MAIN SIZE MJ CAP WITH 2" TAP, (IPF)	1	PER PLAN
③ 2" ADAPTER (MIPT x SW)	2	
④ 2" x 12" COPPER PIPE, SOFT	1	
⑤ 2" 90° ELL (SW x SW)	2	
⑥ 2" COPPER PIPE, HARD DRAWN	VARIES	
⑦ 2" 90° BRASS ELL (MIPT x SW)	1	
⑧ 2" RW FULL BODY GATE VALVE, (FIPT)	1	
⑨ 2" COPPER PIPE, HARD (NO JOINTS)	VARIES	
⑩ 2" ADAPTER (SW x FIPT)	1	
⑪ 2" BRASS PLUG (MIPT)	1	
⑫ 10" GATE BOX CAP AND SPLIT-SLEEVE	1	CWD-515
⑬ 10" DIA STEEL SLEEVE (VARIES)	VARIES	
⑭ 2" SQUARE OPERATOR NUT	1	SUPPLIED BY CITY
⑮ MAIN SIZE GRIP RING KIT	1	
⑯ 2" x 6" BRASS NIPPLE	1	
⑰ 8" GATE BOX CAP AND SPLIT-SLEEVE	1	
⑱ 8" DIA STEEL SLEEVE (VARIES)	1	
⑲ 2" x 48"± COPPER PIPE, HARD, NO JOINTS	VARIES	



WATER DISTRIBUTION & TRANSMISSION PIPELINE CONSTRUCTION METHODS

TYPICAL 2" BLOW-OFF ASSEMBLY FOR MAINS WITH MORE THAN 42" OF COVER