

UNDISTURBED EARTH-SECTION A-A (BEDDING SHALL BE PROVIDED AS REQUIRED BY CONTRACT PLANS AND D.I. BENDS SPECIFICATIONS)

"WATER" ON LID

RETAINER GLANDS SHALL BE USED ON ALL FITTINGS. NO ADDITIONAL COMPENSATION ALLOWED.

-SCREW TYPE ADJUSTMENTS FOR DEPTH. IN PAVEMENT USE SLIDE TYPE ADJUSTMENTS



PROVIDED AS REQUIRED BY CONTRACT PLANS AND D.I. TEE & PLUG

D.I. TEE-

D.I. PLUG-

CONCRETE BLOCKING

UNDISTURBED EARTH

(BEDDING SHALL BE

AREA OF BEARING FACE REQUIRED - SQ. FT.									
	PIPE SIZE	1/4 BEND	1/8 OR 1/16 BEND	TEES & PLUGS					
	4,6,8 3		3	3					
	10	4	. 3	3					
	12	6	3	4					
	16	11	4	7					
	18	16	6	10					
	20	18	8	12					

-MUELLER THREE WAY A-442 5 ½" BARREL. SET FIRE HYDRANT W/ BURY LINE AT GRADE - INSTALL BARREL EXTENSIONS AS NECESSARY (INCIDENTAL)

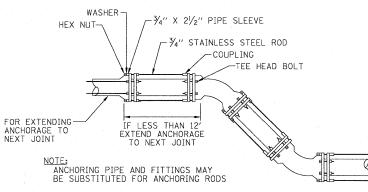
FORCE MAIN AND PRESSURE RATED MINIMUM RESTRAINED JOINT FITTINGS REFERENCE LENGTH TABLE WHERE RESTRAINED LENGTHS ARE NOT INDICATED ON THE PLANS (SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

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FITTING	PIPE SIZE AND RESTRAINED JOINT LENGTH (BOTH SIDES OF FITTING) IN L.F.					
PIPE DIAMETER	3′′	4′′	6"	8''	10′′	12''
11 1/4° TO 45° ELBOW	9′	11'	16′	21′	26′	31′
90° ELBOW	23′	28′	39′	51′	63′	74′
VERTICAL OFFSET 11 1/4° TO 45°	21′	26′	- 37′	48′	59′	70′
TEE (BRANCH) RUN 10FT. EACH WAY	19′	25′	38′	52′	65′	78′
REDUCER		10′	23′	24′	24′	25′
DEAD END	25′	31′	44′	58′	71′	85′

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CURB BOX MUELLER H-10306—W/ EXTENSION ROD, W/ LID, W/ BRASS PENTAGON CLUB W/ COMPATIBLE MUELLER SLEEVE IF IN PAVEMENT -EXTENSION ROD CORPORATION STOP-MUELLER H-15008 #12 COPPER TRACER WIRE (CONNECT TO EXTENSION ROD) CAST BRONZE SERVICE-CLAMP (SADDLE) MUELLER H-13433 CURB STOP FOR MUELLER H-15219 -1" CTS POLYETHYLENE PIPE (SEE SPECIAL PROVISIONS FOR SERVICE PIPE MATERIAL) -WATER MAIN

TYPICAL WATER SERVICE 1"



PIPE SIZE ANCHORAGE OF FITTINGS LYING IN VERTICAL PLANE

12"& UNDER

- M.J. FIRE HYDRANT

CLOW F1215 ANCHORING COUPLING OR F1216 ANCHORING PIPE OR EQUAL

-CLOW F1215 ANCHORING COUPLING OR F1216 ANCHORING PIPE OR EQUAL CLOW F1218 ELBOW OR EQUAL -M.J. FIRE HYDRANT -CLOW F1215 ANCHORING COUPLING OR F1216 ANCHORING PIPE OR APPROVED EQUAL M.J. TEE-

PRECAST CONCRETE BLOCK HYDRANT DRAIN OPENINGS-

-1/3 CU. YD. COARSE APPROVED GRANULAR MATERIAL

HYDRANT CONNECTION TYPE 5

HYDRANT CONNECTION TYPE 3 CITY OF HAVANA - BROADWAY STREET WATERMAIN DETAILS

SHEETS STA. 23+45

SECTION COUNTY 36 26 05-00035-00-SS MASON CONTRACT NO. 93502 TO STA. 31+99.5

DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS

EDGE OF TRENCH

-CONCRETE BLOCKING

UNDISTURBED EARTH

EDGE OF TRENCH

- PIPE DIA.

UNDISTURBED EARTH

UNDISTURBED EARTH

PLAN

 \Diamond

SECTION B-B

RETAINER GLANDS SHALL BE USED ON ALL FITTINGS. NO ADDITIONAL COMPENSATION ALLOWED.

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PROVIDE CONCRETE BASE-AND BLOCKING AGAINST UNDISTURBED EARTH.

EXTENSION ROD-

TRACER WIRE VALVE BOX-STABILIZER

TYPICAL VALVE BOX INSTALLATION

NOT TO SCALE

Farnsworth