

ELBOW

1. CONCRETE COLLAR TO BE PROVIDED IN AREAS THAT ARE NOT PAVED. THE COLLAR SHALL BE 6" FROM THE COVER AND SHALL EXTEND 6" BELOW FINAL GRADE.

2. CURB STOP TO BE COMPRESSION TYPE BY MUELLER.

WATER SHUT-OFF VALVE DETAIL

CAST IRON COVER CONCRETE COLLAR WITH THE WORD "WATER" (SEE NOTE 1 CAST IN THE TOP BELOW) -FINAL GRADE TELESCOPING VALVE 5' MINIMUM BOX BY MUELLER COVER — 8"ø CLASS 52 CEMENT LINED DUCTILE IRON WATER MAIN MUELLER RESILIENT WEDGE NON-RISING STEM MODEL # A-2360, MECHANICAL JOINT GATE VALVE AS APPROVED BY THE CITY OF BEACON WATER DEPARTMENT CONCRETE THRUST BLOCK BENEATH VALVE WITH RODDING

1. CONCRETE COLLAR TO BE PROVIDED IN AREAS THAT ARE NOT PAVED. THE COLLAR SHALL BE 6" FROM THE

GATE VALVE DETAIL

NOT TO SCALE

NOTIFIED PRIOR TO COMMENCEMENT OF THE WATER MAIN INSTALLATION.

14. THE OWNER SHALL ANNUALLY EXERCISE ALL WATER VALVES.

2. A PRESSURE TEST AND LEAKAGE TEST ARE REQUIRED FOR ALL PIPE.

WATER MAIN PRESSURE & LEAKAGE TESTING

8. GATE VALVES SHALL BE MUELLER RESILIENT WEDGE, NON-RISING STEM, MECHANICAL JOINT.

10. SERVICE LINES SHALL BE 2" COPPER K, UNLESS OTHERWISE NOTED ON THE PLAN.

HOURS TO CURE OR BLOCKING USING STANDARD CEMENT HAS HAD 7 DAYS TO CURE.

9. HYDRANTS SHALL BE A-423 MUELLER CENTURION, WITH A MUELLER GATE VALVE BEFORE THE HYDRANT.

EXPOSED PARTS AGAIN EXAMINED. THE MINIMUM DURATION OF THE LEAKAGE TEST SHALL BE TWO (2) HOURS.

1. A MINIMUM 5' COVER SHALL BE PROVIDED ON THE WATER SERVICE LINE (CONDITIONED ON ACTUAL WATER MAIN DEPTH).

2. CORPORATION STOP TO BE COMPRESSION TYPE BY MUELLER.

3. WATER SERVICE LINE TO HAVE A 'GOOSENECK' NEAR CORPORATION

PLAN VIEW

DUCTILE

IRON WATER

- 1"ø COPPER

SERVICE LINE

CORPORATION STOP

H-15008 AS APPROVED BY

BY MUELLER MODEL #

SECTION VIEW THE CITY OF BEACON WATER

DEPARTMENT

K WATER

4. CORPORATION STOP TO BE INSTALLED IN THE UPPER HALF OF THE WATER MAIN AT AN ANGLE OF APPROXIMATELY 45° FROM

WATER SERVICE CONNECTION DETAIL NOT TO SCALE

1. THE PROPOSED APARTMENT BUILDINGS ARE TO BE SERVED BY THE CITY OF BEACON MUNICIPAL WATER SYSTEM. INSTALLATION OF ALL

3. THE WATER MAIN SHALL BE INSTALLED, PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C600

4. THE DUTCHESS COUNTY DEPARTMENT OF HEALTH, CITY OF BEACON WATER OPERATOR, AND THE CERTIFYING PROFESSIONAL ENGINEER SHALL BE

6. WATER MAIN MATERIAL SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON PIPE WITH MECHANICAL JOINTS AND SHALL MEET THE REQUIREMENTS

11. THE CONTRACTOR SHALL VERIFY THE EXISTING WATER MAIN MATERIAL AND BE PREPARED TO PROVIDE A SPECIAL COUPLING FOR CONNECTION

12. A PRESSURE REDUCING VALVE SHALL BE INSTALLED FOR EACH NEW CONDO, WATTS MODEL 25AUB-Z3 OR EQUAL AS APPROVED BY THE CITY

GENERAL: ALL PIPING SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF AWWA C600, EXCEPT AS ADDED OR

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR ANY AND ALL REQUIRED PIPE TAPS FOR TESTING,

3. TESTING TO BE PERFORMED ONLY AFTER PARTIAL OR COMPLETE BACKFILL AND RESTRAINT BLOCKING (USING HIGH EARLY CEMENT) HAS HAD 36

4. THE MAIN SHALL BE PARTIALLY BACKFILLED OR BRACED AGAINST MOVEMENT DURING THE TEST. ALL AIR MUST BE BLED OUT OF THE SECTION

TO BE TESTED. IF NECESSARY, CONTRACTOR SHALL INSTALL CORPORATION STOPS AT THE HIGH POINTS, FOR BLOW-OFFS. AFTER ALL AIR HAS BEEN EXPELLED, THE CORPORATION COCKS SHALL BE CLOSED AND THE PRESSURE TEST APPLIED. AFTER EXAMINATION OF EXPOSED PARTS OF

THE SYSTEM, THE TEST PRESSURE SHALL BE INCREASED TO 1 1/2 TIMES THE NORMAL PRESSURE, BASED UPON THE ELEVATION OF THE LOWEST

CONTRACTOR WILL LOCATE AND REPAIR SYSTEM AT HIS EXPENSE AND RETEST, CONTINUE TO TEST AND REPAIR THE SYSTEM UNTIL LEAKAGE IS

POINT IN THE LINE OR SECTION UNDER THE TEST, BUT SUCH PRESSURE SHALL NOT BE LESS THAN 150 PSI NOR MORE THAN 200 PSI, AND

5. ALLOWABLE SYSTEM LEAKAGE AS SPECIFIED IN THE REFERENCED STANDARDS. IF LEAKAGE IN SYSTEM IS GREATER THAN ALLOWABLE,

AND AS NECESSARY FOR TESTING AS SPECIFIED. EQUIPMENT WILL BE SUCH THAT THE ENGINEER MAY INSTALL HIS OWN PRESSURE GAUGE.

13. THE CONDO ASSOCIATION SHALL OWN, OPERATE, AND MAINTAIN THE WATER MAIN THROUGHOUT THE SITE, INCLUDING ALL APPURTENANCES.

COMPONENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY CODE, CHAPTER 219.

2. REFER TO THE DUTCHESS COUNTY DEPARTMENT OF HEALTH STANDARD NOTES FOR ADDITIONAL PERTINENT INFORMATION.

5. THE WATER MAIN SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C651 (SEE NOTES BELOW).

7. MEGALUG RESTRAINING SYSTEMS SHALL BE USED AT ALL FITTINGS, VALVES AND HYDRANTS (SEE SCHEDULE ON SHEET 14).

CAST IRON COVER -CONCRETE COLLAR (SEE NOTE 1 BELOW) — —CURB BOX BY MUELLER -1" CURB STOP BY MUELLER MODEL 1"ø COPPER # H-15209 AS APPROVED BY THE 'K' WATER CITY OF BEACON WATER SERVICE LINE -DEPARTMENT -PROVIDE SUPPORT BELOW CURB STOP PER MANUFACTURER'S RECOMMENDATIONS

NOTES:

COVER AND SHALL EXTEND 6" BELOW FINAL GRADE.

PACKING, DESIGNED FOR A WORKING PRESSURE OF 150 PSI AND BE IN TAPPING SLEEVE AND GATE VALVE SHOWN ARE MUELLER H-615,

SUITABLE RUN OF TRENCH IN 6"

OUTSIDE OF ROADWAY AND ROAD RIGHT-OF-WAY ONLY (SEE NOTE

2 BELOW). UNDER ROADWAY

AND RIGHT-OF-WAY ENTIRE

MATERIAL SHALL BE NYSDOT

TRENCH TO PIPE CROWN

PROPOSED OR EXISTING

ITEM 304.14.

WATERLINE

CONCRETE THRUST BLOCK

COMPACTED SUBGRADE

BENEATH ELBOW WITH RODDING

MAX. COMPACTED LIFTS -

FULL CONFORMANCE WITH AWWA C500.

- PAVEMENT SECTION (SEE NOTE 4)

SANITARY SEWER O

STORM SEWER

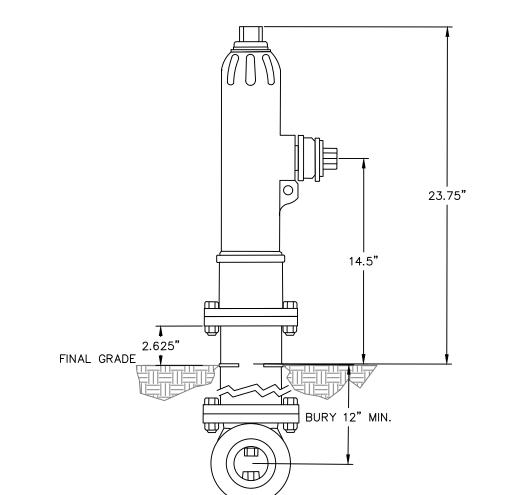
TAPPING SLEEVE DETAIL

NOT TO SCALE

AND T-2630 RESPECTIVELY.

NOT TO SCALE

3. AREA AROUND CURB BOX TO BE BACKFILLED WITH GRAVELLY



1. FLUSH HYDRANT SHALL BE MUELLER CENTURION 2 1 POST TYPE FLUSH

NOT TO SCALE

6. NO DUCTILE IRON PIPE INSTALLATION WILL BE ACCEPTED IF THE LEAKAGE IS GREATER THAN THAT DETERMINED BY THE FOLLOWING FORMULA: WHERE

L = LEAKAGE IN GALLONS PER HOUR S = LENGTH OF PIPE TESTED, IN FEET

WITHIN ACCEPTABLE LIMITS.

(SEE NOTES BELOW).

D = NOMINAL DIAMETER OF PIPE IN INCHES

OF THE PROPOSED DUCTILE IRON WATER MAIN.

OF BEACON WATER DEPARTMENT, IF NECESSARY.

P = AVERAGE TEST PRESSURE DURING LEAKAGE TEST, IN PSI (GAUGE)

WATER MAIN DISINFECTION & TESTING

THE CITY ENGINEER SO AS TO AVOID UNDUE DISTURBANCE OF THE WATER SUPPLY TO ANY EXISTING USERS. 2. THE CONTRACTOR SHALL INFORM THE DESIGN ENGINEER'S AND CITY ENGINEER'S OFFICE A MINIMUM OF 24 HOURS PRIOR TO TESTING SUCH

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF BEACON WATER DEPARTMENT PRIOR TO TESTING AND SHALL ALSO COORDINATE HIS ACTIONS WITH

THAT WITNESSING CAN TAKE PLACE AND PROPER CERTIFICATIONS CAN BE ISSUED.

3. ALL NEWLY INSTALLED WATER MAINS SHALL BE FLUSHED AT A MINIMUM VELOCITY OF 2.5 FT/SECOND BEFORE AND AFTER DISINFECTION.

4. ALL WATER LINES SHALL BE DISINFECTED USING THE PROCEDURES DESCRIBED IN THE LATEST EDITION OF AWWA C651 SPECIFICATIONS FOR DISINFECTION OF WATER LINES (WITH THE EXCEPTION OF THE TABLET METHOD). WATER ENTERING THE NEW MAIN SHALL RECEIVE A DOSE OF CHLORINE FED AT A CONSTANT RATE SUCH THAT THE WATER WILL HAVE NOT LESS THAN 25 MG/L FREE CHLORINE. CHLORINE APPLICATION SHALL NOT CEASE UNTIL THE ENTIRE MAIN IS FILLED WITH HEAVILY CHLORINATED WATER.

5. DISINFECTED WATER SHALL REMAIN IN THE NEWLY INSTALLED WATER LINE FOR A MINIMUM OF 24 HOURS. AFTER THIS RETENTION PERIOD, THE HEAVILY CHLORINATED WATER SHALL BE FLUSHED FROM THE MAIN UNTIL CHLORINE MEASUREMENTS SHOW A CONCENTRATION IN THE WATER LEAVING THE MAIN HAS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. AT SUCH TIME, BACTERIOLOGICAL SAMPLING FOR SUBMITTAL TO STATE HEALTH LABORATORIES SHALL BE PERFORMED BY THE CONTRACTOR

6. WATER SAMPLES SHALL BE TESTED FOR TOTAL COLIFORM, TPC (HETEROTROPHIC PLATE COUNT), TURBIDITY & COLOR.

7. CONTRACTOR WILL CONTINUE FLUSHING AND DISINFECTION OPERATION UNTIL ACCEPTABLE BACTERIOLOGICAL RESULTS ARE OBTAINED. TWO (2) SUCCESSIVE SAMPLES ARE TO BE TAKEN AT TWENTY-FOUR (24) HOUR INTERVALS.

8. THE ENVIRONMENT INTO WHICH THE HEAVILY CHLORINATED WATER IS TO BE DISCHARGED SHALL BE INSPECTED, AND IF THERE IS ANY LIKELIHOOD THAT THE CHLORINATED DISCHARGE WILL CAUSE DAMAGE, THEN A REDUCING AGENT SHALL BE APPLIED TO THE WATER TO BE WASTED TO THOROUGHLY NEUTRALIZE THE CHLORINE RESIDUAL IN THE WATER. PERMITS MAY BE REQUIRED. THE CITY ENGINEER SHALL BE NOTIFIED PRIOR TO DISPOSAL OF HIGHLY CHLORINATED WATER.

## (TYP.) 1. WHEN THE ELEVATION OF THE SANITARY OR STORM SEWER CAN NOT - A423 MUELLER CENTURION FIRE SERVICE LINE OR MAIN SHALL BE RELOCATED TO PROVIDE THIS HYDRANT AS APPROVED BY THE CITY OF REQUIRED SEPARATION OR RECONSTRUCTED WITH MECHANICAL JOINT BEACON WATER AND FIRE DEPARTMENT PIPE FOR A DISTANCE OF TEN (10) FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATERMAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR AWAY FROM THE SEWER AS POSSIBLE 2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS. DEBRIS. ORGANIC MATERIALS, ENLOGATED PARTICLES, LARGE STONES OR OTHER UNSUITABLE MATERIALS, IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED. 3. THE RELOCATED WATER MAIN/SERVICE LINE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA. NYSDOH AND DCDOH STANDARDS. FINAL GRADE 4. PAVEMENT RESTORATION SHALL BE IN ACCORDANCE WITH THE PAVEMENT RESTORATION DETAIL. HYDRANT OR APPROVED EQUAL. 5. ALL REPLACED WATERMAIN SHALL BE 12" CLASS 52 DUCTILE IRON. PAVEMENT FLUSH HYDRANT CURB -WATER LINE OFFSET DETAIL NOT TO SCALE 5' MINIMUM COVER ┌─6"ø CLASS 52 CEMENT LINED - WATER MAIN DUCTILE IRON PIPE FILL TO 6" ABOVE DRAIN PORT \_\_\_\_ - CONCRETE THRUST WEEP HOLE ----BLOCK (TYP.) WEEP HOLE SHALL BE — UNDISTURBED EARTH UNOBSTRUCTED AND SURROUNDED BY ½ CUBIC YARD OF COARSE GRAVEL OR BROKEN STONE -- MUELLER RESILIENT WEDGE NON-RISING STEM MODEL # A-2360, MECHANICAL JOINT GATE VALVE AS APPROVED BY THE CITY - CONCRETE THRUST OF BEACON WATER DEPARTMENT BLOCK (TYP.) CONCRETE THRUST BLOCK BENEATH VALVE WITH RODDING NOTES: 1. THE GATE VALVE SHALL BE LOCATED THIRTY SIX (36) INCHES FROM THE HYDRANT CENTER LINE. 2. 1/2" STEEL TIE RODS TO BE PROVIDED BETWEEN THE GATE VALVE AND THE HYDRANT. HYDRANT DETAIL

NOT TO SCALE

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WATER MAIN

OR SERVICE

-SEWER

MAIN/LATERAL/FORCEMAIN

MIN





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WATER DETAILS

53 ELIZA STREET

53 ELIZA STREET CITY OF BEACON DUTCHESS COUNTY, NEW YORK

TAX ID: 6054-29-031870

DATE: 8/28/18 SCALE: AS NOTED

JOB #: 2018:032

TITLE: CD-3SHEET: 12 OF 13

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