

RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED. SANITARY SEWER SERVICE LINE TRENCH DETAIL

2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS

ORGANIC MATERIALS, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE

DUTCHESS COUNTY DEPARTMENT OF HEALTH AND THE CITY OF

BEACON. CONCRETE ENCASEMENT OF WATERLINE OR

SEPARATION DISTANCES CANNOT BE MAINTAINED.

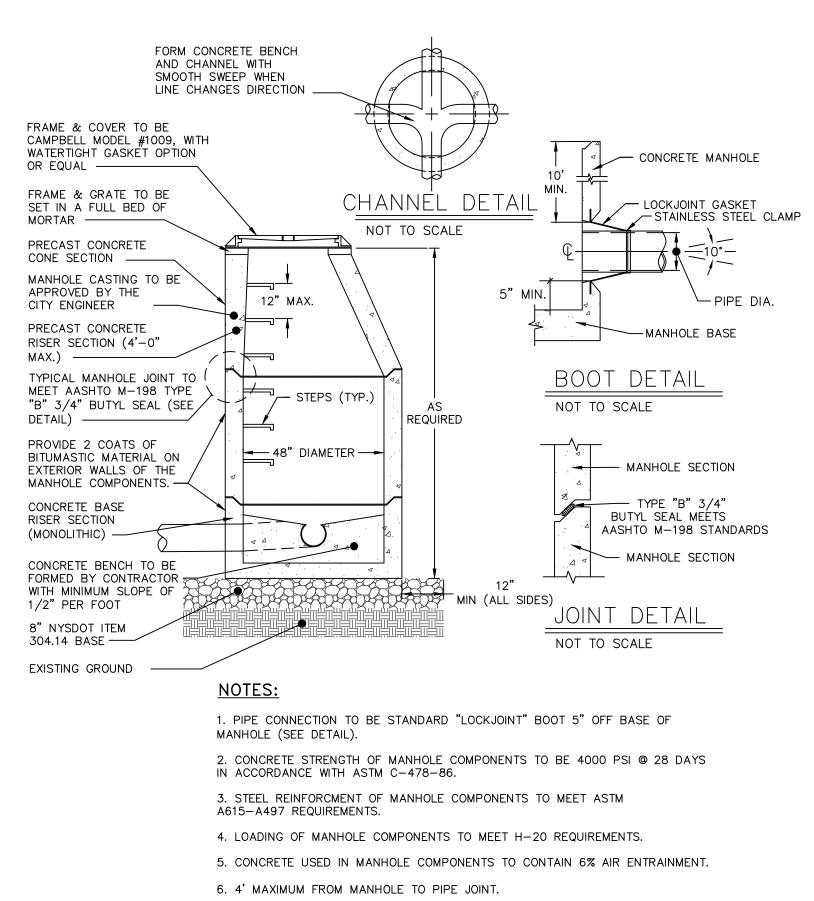
Scenic Beacon Development, LLC

Beacon, NY 12508

OFFSETTING OF WATERLINE SHALL BE REQUIRED WHERE

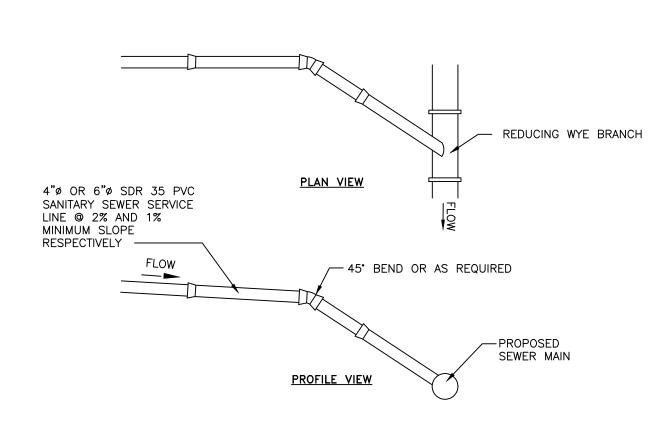
WATER LINE SEPARATION DETAIL

NOT TO SCALE



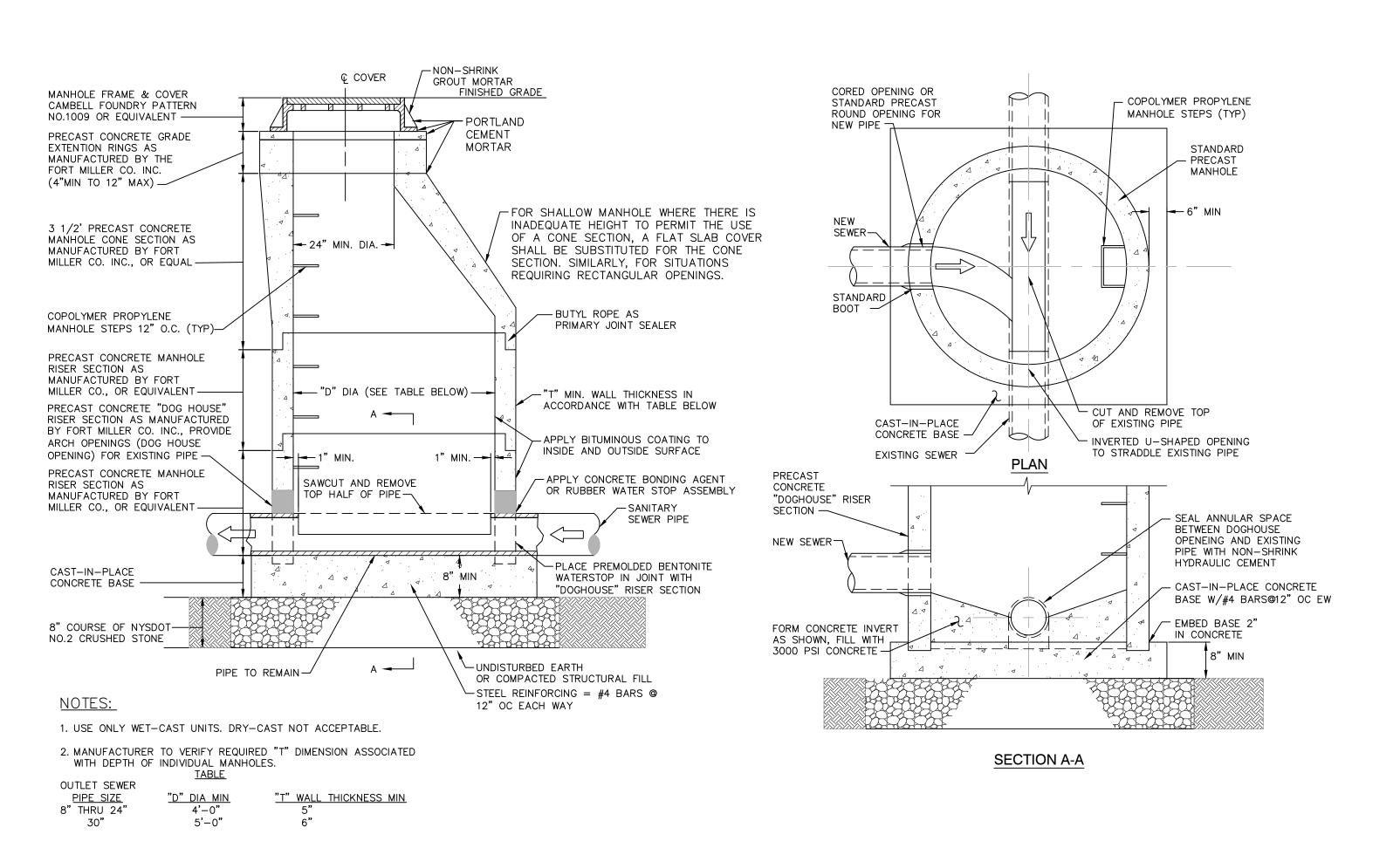
PRE-CAST CONCRETE SANITARY MANHOLE DETAIL

NOT TO SCALE

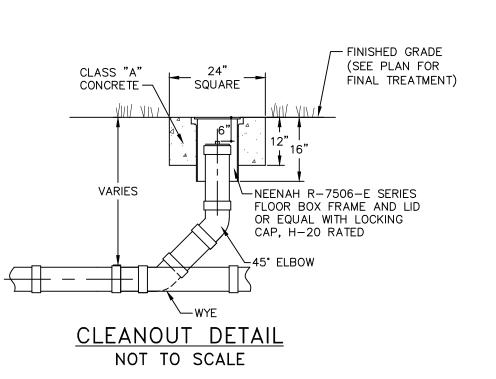


1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS. 2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS ORGANIC MATERIALS, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.

SANITARY SEWER SERVICE CONNECTION DETAIL



PRECAST CONCRETE INSERTION "DOGHOUSE" MANHOLE DETAIL NOT TO SCALE



1" CORPORATION STOP

H-15008 AS APPROVED BY

THE CITY OF BEACON WATER

BY MUELLER MODEL #

RECOMMENDED FOR APPROVAL:

MAYOR OF THE CITY OF BEACON

AS APPROVED, SHALL VOID THIS APPROVAL.

RESPECTIVELY MAY SIGN IN THIS PLACE.

APPROVED BY RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BEACON

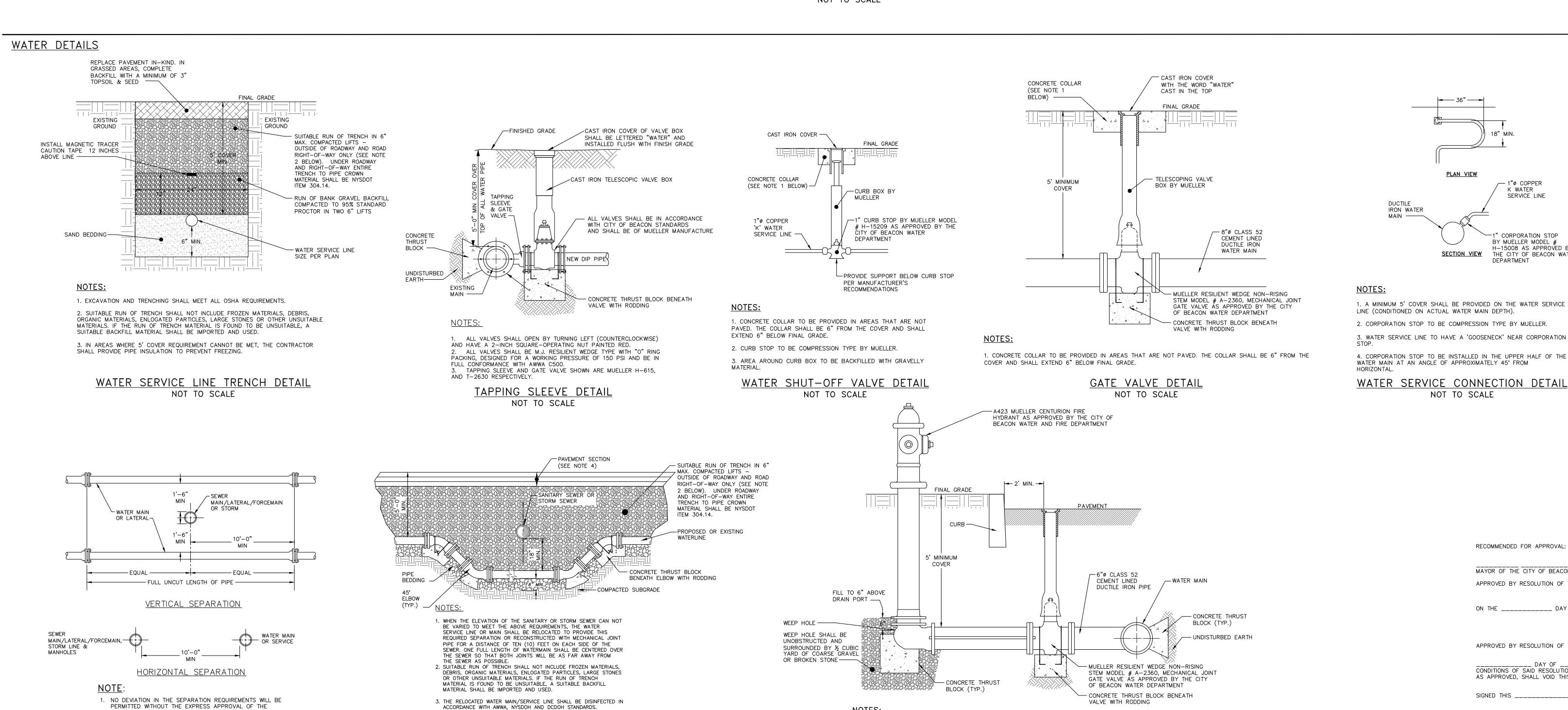
SIGNED THIS _____, 20___, BY

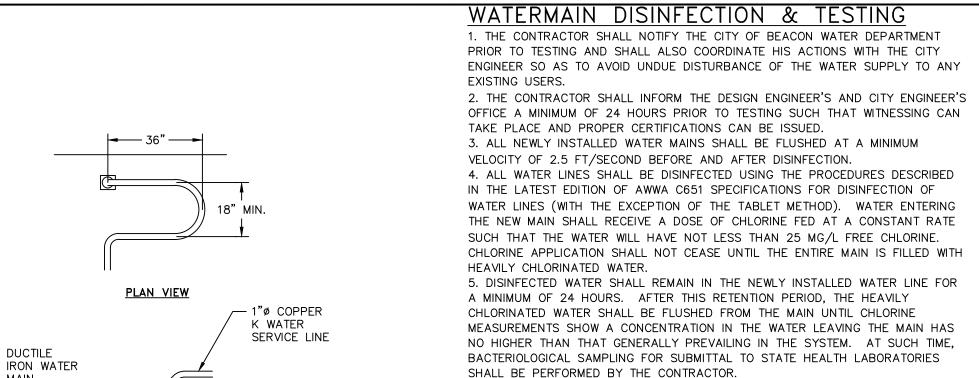
_ SECRETARY

IN ABSENCE OF THE CHAIRMAN OR SECRETARY, THE ACTING CHAIRMAN OR ACTING SECRETARY

ON THE _____, 20____,

NOT TO SCALE





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

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

SYSTEM. INSTALLATION OF ALL COMPONENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF 2. REFER TO THE DUTCHESS COUNTY DEPARTMENT OF HEALTH STANDARD NOTES FOR ADDITIONAL PERTINENT 3. THE WATER MAIN SHALL BE INSTALLED, PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C600 (SEE NOTES BELOW). 4. THE DUTCHESS COUNTY DEPARTMENT OF HEALTH, CITY OF BEACON WATER OPERATOR, AND THE CERTIFYING PROFESSIONAL ENGINEER SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF THE WATER MAIN INSTALLATION. 5. THE WATER MAIN SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C651 (SEE 6. WATER MAIN MATERIAL SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON PIPE WITH MECHANICAL JOINTS AND SHALL MEET THE REQUIREMENTS OF AWWA C150 AND ANSI A21.51. 7. MEGALUG RESTRAINING SYSTEMS SHALL BE USED AT ALL FITTINGS, VALVES AND HYDRANTS (SEE SCHEDULE

SANITARY SEWER NOTES:

FOR ADDITIONAL PERTINENT INFORMATION.

DEFLECTION TESTING.

PRESSURE OF 3.5 PSI.

REQUIREMENT IS MET.

HOMEOWNERS ASSOCIATION.

1. THE PROPOSED APARTMENTS ARE TO BE SERVED BY THE CITY OF BEACON

2. REFER TO THE DUTCHESS COUNTY DEPARTMENT OF HEALTH STANDARD NOTES

3. THE DUTCHESS COUNTY DEPARTMENT OF HEALTH, CITY OF BEACON CHIEF

SEWER OPERATOR, AND THE CERTIFYING PROFESSIONAL ENGINEER SHALL BE

AND SPIGOT GRAVITY SEWER PIPE, WITH GASTIGHT AND WATERTIGHT JOINTS.

5. SEWER MAIN SHALL BE LAID IN STRAIGHT ALIGNMENT. MANHOLES SHALL BE

EXCEEDING 400 LINEAR FEET. STRAIGHT ALIGNMENT SHALL BE VERIFIED BY

CONSTRUCTED AT ALL CHANGES IN SLOPE. ALIGNMENT OR AT INTERVALS NOT

6. THE SEWER MAIN SHALL BE INSTALLED AND TESTED FOR EXFILTRATION PRIOR

TO BEING PERMITTED TO OPERATE. ALL NEW SANITARY SEWER GRAVITY LINES

SHALL PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH ASTM C-828 AT A

7. MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C-1244. IF

PRESSURE DROP EXCEEDS THE SPECIFIED AMOUNT, THE NECESSARY REPAIRS OR REPLACEMENTS REQUIRED SHALL BE MADE TO REDUCE THE PRESSURE DROP TO

WITHIN THE SPECIFIED LIMIT, AND THE TESTS SHALL BE REPEATED UNTIL THE

8. SERVICE LATERALS SHALL BE 4" DIAMETER SDR-35 PVC WITH A MINIMUM

EXISTING MANHOLE SHALL BE OWNED, OPERATED AND MAINTAINED BY THE

9. ALL SANITARY SEWER MAINS AND MANHOLES UP TO, BUT NOT INCLUDING, THE

SLOPE OF 2%, UNLESS OTHERWISE NOTED ON THE PLAN.

4. SEWER MAIN MATERIAL SHALL BE 8" DIAMETER SDR-35 OR SDR-26 PVC BELL

NOTIFIED PRIOR TO COMMENCEMENT OF THE SEWER MAIN INSTALLATION.

MUNICIPAL SEWER SYSTEM. INSTALLATION OF ALL COMPONENTS SHALL BE

PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY CODE,

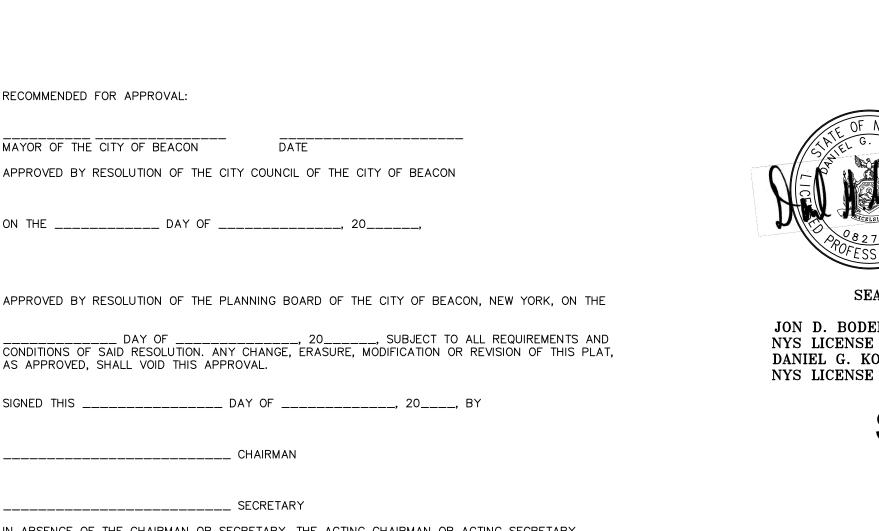
8. GATE VALVES SHALL BE MUELLER RESILIENT WEDGE, NON-RISING STEM, MECHANICAL JOINT. 9. HYDRANTS SHALL BE A-423 MUELLER CENTURION, WITH A MUELLER GATE VALVE BEFORE THE HYDRANT. 10. SERVICE LINES SHALL BE 3/4" COPPER K, UNLESS OTHERWISE NOTED ON THE PLAN. 11. THE CONTRACTOR SHALL VERIFY THE EXISTING WATER MAIN MATERIAL AND BE PREPARED TO PROVIDE A SPECIAL COUPLING FOR CONNECTION OF THE PROPOSED DUCTILE IRON WATER MAIN. 12. A PRESSURE REDUCING VALVE SHALL BE INSTALLED FOR EACH NEW TOWNHOME, WATTS MODEL 25AUB-Z3 OR EQUAL AS APPROVED BY THE CITY OF BEACON WATER DEPARTMENT. 13. THE CITY OF BEACON SHALL OWN, OPERATE AND MAINTAIN THE WATER MAIN THROUGHOUT THE SITE, INCLUDING ALL APPURTENANCES. 14. THE HOA OR OWNER SHALL ANNUALLY EXERCISE ALL WATER VALVES.

WATER MAIN PRESSURE & LEAKAGE TESTING GENERAL: ALL PIPING SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF AWWA C600, EXCEPT AS ADDED OR AMENDED BELOW: 1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR ANY AND ALL REQUIRED PIPE TAPS FOR TESTING, AND AS NECESSARY FOR TESTING AS SPECIFIED. EQUIPMENT WILL BE SUCH THAT THE ENGINEER MAY INSTALL HIS OWN PRESSURE GAUGE. 2. A PRESSURE TEST AND LEAKAGE TEST ARE REQUIRED FOR ALL PIPE.

3. TESTING TO BE PERFORMED ONLY AFTER PARTIAL OR COMPLETE BACKFILL AND RESTRAINT BLOCKING (USING HIGH EARLY CEMENT) HAS HAD 36 HOURS TO CURE OR BLOCKING USING STANDARD CEMENT HAS HAD 7 DAYS 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 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 EXPOSED PARTS AGAIN EXAMINED. THE MINIMUM DURATION OF THE LEAKAGE TEST SHALL BE TWO (2) HOURS.

5. ALLOWABLE SYSTEM LEAKAGE AS SPECIFIED IN THE REFERENCED STANDARDS. IF LEAKAGE IN SYSTEM IS GREATER THAN ALLOWABLE, CONTRACTOR WILL LOCATE AND REPAIR SYSTEM AT HIS EXPENSE AND RETEST. CONTINUE TO TEST AND REPAIR THE SYSTEM UNTIL LEAKAGE IS WITHIN ACCEPTABLE LIMITS. 6. NO DUCTILE IRON PIPE INSTALLATION WILL BE ACCEPTED IF THE LEAKAGE IS GREATER THAN THAT DETERMINED BY THE FOLLOWING FORMULA:

L = LEAKAGE IN GALLONS PER HOUR S = LENGTH OF PIPE TESTED, IN FEET D = NOMINAL DIAMETER OF PIPE IN INCHES P = AVERAGE TEST PRESSURE DURING LEAKAGE TEST, IN PSI (GAUGE)



	REVISIONS:			
	NO.	DATE	DESCRIPTION	BY
WER AND WASH	1	2/28/17	PER PLANNING BOARD COMMENTS	СМВ
	2	3/28/17	PER PLANNING BOARD COMMENTS	MAB
	3	4/25/17	NO CHANGE THIS SHEET	MAB
	4	5/30/17	NO CHANGE THIS SHEET	MAB
	5	7/25/17	NO CHANGE THIS SHEET	MAB
7 1 6	6	8/29/17	NO CHANGE THIS SHEET	MAB
SIONAL	7	9/26/17	NO CHANGE THIS SHEET	MAB
	8	10/31/17	NO CHANGE THIS SHEET	MAB
EAL	9	11/28/17	NO CHANGE THIS SHEET	MAB
ENDORF, P.E.	10	06/26/18	NO CHANGE THIS SHEET	MAB
E NO. 076245 KOEHLER, P.E.	11	07/31/18	NO CHANGE THIS SHEET	MAB
E NO. 082716	12	08/28/18	ADDED DCDOH NOTES	MAB

Special Use Permit Application Water and Sewer Details

Sheet 15 of 15

Aryeh Siegel, Architect

4. PAVEMENT RESTORATION SHALL BE IN ACCORDANCE WITH THE

5. ALL REPLACED WATERMAIN SHALL BE 12" CLASS 52 DUCTILE IRON.

WATER LINE OFFSET DETAIL

NOT TO SCALE

PAVEMENT RESTORATION DETAIL.

Beacon, New York 12508

Site/Civil Engineer:
Hudson Land Design Beacon, New York 12508

TEC Land Surveying Beacon, New York 12508

1. THE GATE VALVE SHALL BE LOCATED THIRTY SIX (36) INCHES FROM THE HYDRANT CENTER LINE

HYDRANT DETAIL

NOT TO SCALE

2. 1/2" STEEL TIE RODS TO BE PROVIDED BETWEEN THE GATE VALVE AND THE HYDRANT

Edgewater December 22, 2016