

PRE-CAST CONCRETE SANITARY MANHOLE DETAIL
NOT TO SCALE

MANHOLE NOTES:

- PIPE CONNECTION TO BE STANDARD "LOOKNPT" BOOT 5' OFF BASE OF MANHOLE (SEE DETAIL).
- CONCRETE STRENGTH OF MANHOLE COMPONENTS TO BE 4000 PSI @ 28 DAYS IN ACCORDANCE WITH ASTM C-478-98-86.
- STEEL REINFORCEMENT OF MANHOLE COMPONENTS TO MEET ASTM A615-A497 REQUIREMENTS.
- LOADING OF MANHOLE COMPONENTS TO MEET H-20 REQUIREMENTS.
- CONCRETE USED IN MANHOLE COMPONENTS TO CONTAIN 6% AIR ENTRAINMENT.
- 4" MAXIMUM FROM MANHOLE TO PIPE JOINT.

PRECAST CONCRETE INSERTION "DOGHOUSE" MANHOLE DETAIL
NOT TO SCALE

SECTION A-A

MANHOLE NOTES:

- USE ONLY WET-CAST UNITS, DRY-CAST NOT ACCEPTABLE.
- MANUFACTURER TO VERIFY REQUIRED "I" DIMENSION ASSOCIATED WITH DEPTH OF INDIVIDUAL MANHOLES.

OUTLET SEWER
RISE SIZE
TABLE

INLET DIA. MIN	OUTLET DIA. MIN	WALL THICKNESS MIN
10"	4"	8"
12"	6"	10"
14"	8"	12"

SANITARY SEWER SERVICE LINE TRENCH DETAIL
NOT TO SCALE

NOTES:

- EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
- 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 MAIN TRENCH DETAIL
NOT TO SCALE

NOTES:

- EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
- SEWER MAIN MATERIAL SHALL BE 8" DIAMETER SDR-26 PVC BELL AND SPIGOT GRAVITY SEWER PIPE, WITH GASTIGHT AND WATERIGHT JOINTS.
- 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
NOT TO SCALE

NOTES:

- EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
- 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.

WATER SERVICE LINE TRENCH DETAIL
NOT TO SCALE

TAPPING SLEEVE DETAIL
NOT TO SCALE

WATER SHUT-OFF VALVE DETAIL
NOT TO SCALE

GATE VALVE DETAIL
NOT TO SCALE

HYDRANT DETAIL
NOT TO SCALE

WATER LINE SEPARATION DETAIL
NOT TO SCALE

WATER LINE OFFSET DETAIL
NOT TO SCALE

WATER SERVICE CONNECTION DETAIL
NOT TO SCALE

WATER MAIN TRENCH DETAIL
NOT TO SCALE

NOTES:

- EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
- SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, ENLARGED 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.
- IN AREAS WHERE 5' COVER REQUIREMENT CANNOT BE MET, THE CONTRACTOR SHALL PROVIDE PIPE INSULATION TO PREVENT FREEZING.

NOTES:

- ALL VALVES SHALL OPEN BY TURNING LEFT (COUNTERCLOCKWISE) AND HAVE A 2-INCH SQUARE OPERATING NUT PAINTED RED.
- ALL VALVES SHALL BE W.J. RESILIENT WEDGE TYPE WITH "O" RING PADLOCK, DESIGNED FOR A WORKING PRESSURE OF 150 PSI AND BE IN FULL CONFORMANCE WITH AWWA C500.
- TAPPING SLEEVE AND GATE VALVE SHOWN ARE MUELLER H-615, T-2630 RESPECTIVELY.

NOTES:

- 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.
- CURB STOP TO BE COMPRESSION TYPE BY MUELLER.
- AREA AROUND CURB BOX TO BE BACKFILLED WITH GRAVELLY MATERIAL.

NOTES:

- 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.
- 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.
- THE ENVIRONMENT INTO WHICH THE HEAVILY CHLORINATED WATER IS TO BE DISCHARGED SHALL BE INSPECTED, AND IF THERE IS ANY UNLINED THAT THE CHLORINATED DISCHARGE WILL CAUSE DAMAGE, THEN A REDUCING AGENT SHALL THAT THE 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 HEAVILY CHLORINATED WATER.

NOTES:

- NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE DUTCHESS COUNTY DEPARTMENT OF HEALTH AND THE CITY OF BEACON. CONCRETE ENCASUREMENT OF WATERLINE OR OFFSETTING OF WATERLINE SHALL BE REQUIRED WHERE SEPARATION DISTANCES CANNOT BE MAINTAINED.

NOTES:

- THE RELOCATED WATER MAIN/SERVICE LINE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA, NYSDOH AND DCOH STANDARDS.
- PAYMENT RESTORATION SHALL BE IN ACCORDANCE WITH THE PAYMENT RESTORATION DETAIL.
- ALL REPLACED WATERMAIN SHALL BE 12" CLASS 52 DUCTILE IRON.

NOTES:

- EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
- 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, UNLESS NOTED OTHERWISE ON THE PLANS.

DRAWN BY: MAB				CHECKED BY: DGK			
REVISIONS:				REVISIONS:			
NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY
1	15/25/18	REVISED FOR PLANNING BOARD SUBMISSION	MAB				
2	05/26/19	REVISED FOR PLANNING BOARD SUBMISSION	MAB				

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WATER AND SEWER DETAILS
23-28 CREEK DRIVE

23-28 CREEK ROAD
CITY OF BEACON
HESS COUNTY, NEW YORK
X ID: 6054-37-037625

JOB #:	2018:029		
DATE:	10/23/2018		
SCALE:	AS SHOWN		
TITLE:	D-3		
SHEET:	12	OF	12