

REFERENCE WAT-2, WAT-3, AND WAT-4
FOR PLAN VIEWS BASED ON TYPE.



CONCRETE BLOCKS OR POURED CONCRETE ONLY FOR SUPPORTS. BLOCKS SHALL BE 6"x8"x16" (MIN.) SOLID.

1. THE CONTRACTOR SHALL FURNISH HYDRANT BRANCHES HAVING RESTRAINED MECHANICAL JOINTS INCLUDING HYDRANT SHOE. ALL MECHANICAL JOINTS SHALL BE POLYETHYLENE WRAPPED IN ACCORDANCE WITH AWWA C-105/A21.5-88 CLASS "C", METHOD "B".
2. ALL BOLTS AND NUTS FURNISHED WITH RESTRAINED MECHANICAL JOINTS INCLUDING RETAINER OR WEDGE ACTION TYPE GLANDS SHALL BE GRADE 5 HIGH STRENGTH GALVANIZED STEEL OR EQUIVALENT.
3. ALL FIRE HYDRANTS AND VALVE BOXES SHALL BE SECURELY BRACED WHEN SET AND BACKFILLED. ALL FIRE HYDRANTS, VALVES, VALVE BOXES, AND FITTINGS SHALL MEET THE LATEST STANDARD SPECIFICATIONS FOR CONSTRUCTING WATER MAINS AND APPURTENANCES OF THE CITY OF NORTH RIDGEVILLE WATER DEPARTMENT.
4. NORTH RIDGEVILLE STANDARD HYDRANT IS A MUELLER "SUPER CENTURION". HYDRANTS SHALL OPEN IN A COUNTER-CLOCKWISE DIRECTION.
5. HYDRANT SHALL BE FACTORY PAINTED (BARREL-RED, TOP-WHITE) AND TOUCHED UP IN THE FIELD AS NECESSARY.
6. THE FIRE HYDRANTS SHALL MEET THE REQUIREMENTS OF THE AWWA SPECIFICATIONS C502, LATEST REVISION. THE HYDRANT SHALL HAVE TWO 2-1/2" NST HOSE NOZZLES AND ONE 5" MUELLER QUICK DISCONNECT STORZ NOZZLE.
7. THE 2-1/2" NOZZLE SHALL HAVE THE NATIONAL STANDARD THREADS.
8. THE HYDRANTS SHALL BE OF THE COMPRESSION TYPE WITH THE MAIN VALVE OPENING AGAINST THE PRESSURE AND CLOSING WITH THE PRESSURE.
9. THE UPPER SECTION OF THE HYDRANT WHICH HOUSES THE UPPER STEM THREADS AND BRONZE OPERATION NUT SHALL BE DESIGNED SO THAT ALL THREADED AND BEARING METAL SURFACES ARE SEALED AWAY FROM LINE PRESSURE WHEN THE HYDRANT IS IN EITHER THE OPEN OR CLOSED POSITION. THE SEAL SHALL BE MADE BY USE OF "O" RINGS. ALL THREADED AND BEARING PARTS SHALL BE IN A LUBRICATED STATE AT ALL TIMES. THE LUBRICANT MUST BE FOOD GRADE MINERAL OIL.
10. ALL FIRE HYDRANTS SHALL BE OF THE TRAFFIC MODEL TYPE. THE DESIGN SHALL BE SUCH THAT THE UPPER AND LOWER BARREL FLANGES ARE AN INTEGRAL CAST PART OF THE BARREL. THE UPPER AND LOWER BARRELS ARE TO BE JOINED AT THE GROUND LINE BY MEANS OF A BREAKABLE 2-PIECE CAST IRON SAFETY FLANGE ON THE BARREL AND A BREAKABLE STAINLESS STEEL SAFETY COUPLING ON THE STEM WHICH IS RESTRAINED BY CLEVIS AND COTTER PINS.
11. THE OPERATING STEM NUT IS TO BE BRONZE AND OF ONE PIECE CONSTRUCTION.
12. HYDRANTS SHALL BE EQUIPPED WITH A FIVE-INCH INTEGRAL STORZ QUICK DISCONNECT FITTING OF THE LOCKING-TYPE CAP. NOZZLE SHALL BE FACTORY INSTALLED AND TESTED AND MUST HAVE UL LISTING AND FM APPROVAL.



CITY ENGINEER:

CITY OF NORTH RIDGEVILLE, OHIO
STANDARD CONSTRUCTION DRAWINGS

CITY
ENGINEER:

DATE 12/1/18

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GENERAL HYDRANT

DETAIL
WAT-1

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