

# **CITY OF HUBER HEIGHTS GENERAL NOTES**

## **GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF HUBER HEIGHTS SPECIFICATIONS AND STANDARD DRAWINGS. IF NO CITY STANDARD IS AVAILABLE, THEN STANDARD DRAWINGS AND SPECIFICATIONS FROM THE MONTGOMERY COUNTY, OHIO ENGINEERING DEPARTMENT OR THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION & MATERIALS SPECIFICATIONS" (LATEST EDITION) SHALL BE FOLLOWED.
2. ALL UTILITY TRENCH EXCAVATION WITHIN THE EXISTING AND PROPOSED RIGHT-OF-WAY AND EASEMENTS SHALL BE BACKFILLED WITH GRANULAR FILL MATERIAL IN ACCORDANCE WITH CITY SPECIFICATIONS AND COMPACTED BEFORE SUB-GRADE APPROVAL.
3. ALL UNDERGROUND UTILITY SERVICE LATERALS ARE TO BE INSTALLED FROM MAIN TO RIGHT-OF-WAY LINE BEFORE STREETS ARE SURFACED.
4. ALL CATCH BASINS (CURB AND GUTTER INLET) ODOT TYPE 3A UNLESS OTHERWISE SPECIFIED. THE CASTING HOOD SHALL HAVE "DUMP NO WASTE" LETTERING AND FISH IMAGE.
5. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE ASTM C-76, CLASS IV, UNLESS OTHERWISE NOTED.
6. ALL MANHOLES TO BE TYPE "A", UNLESS OTHERWISE NOTED.
7. CHANNEL BOTTOMS OF ALL MANHOLES.
8. CURB RAMPS TO BE LOCATED AS INDICATED ON PLANS AND CONSTRUCTED IN ACCORDANCE WITH CITY SPECIFICATIONS.
9. CONCRETE CURBING TO BE A TYPE SPECIFIED IN THE CITY OF HUBER HEIGHTS STANDARD DRAWINGS. EXTRUDED OR PRECAST CURB IS NOT PERMITTED.
10. ALL FIELD TILE ENCOUNTERED SHALL BE REPLACED OR CONNECTED TO THE STORM SEWER SYSTEM.
11. SITE GRADING WITHIN SUBDIVISIONS SHALL BE SUCH THAT ALL LOTS WILL READILY DRAIN. LOTS SHALL HAVE A 1.5% MINIMUM SLOPE IN GRASS AREAS. OVERLAND FLOW ON LOTS SHALL BE LIMITED TO A MAXIMUM DISTANCE OF THREE HUNDRED (300) FEET UNLESS APPROVED BY THE CITY ENGINEER.
12. ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE INFORMATION. FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: THE OHIO UTILITIES

PROTECTION SERVICE (OUPS) AT 1-800-362-2764; THE DAYTON POWER & LIGHT CO. AT 937-866-3303, AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF OUPS.

13. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO CONTROL SOIL EROSION AND SEDIMENTATION THROUGH THE LIFE OF THE CONTRACT. THESE MAY INVOLVE THE USE OF HAY AND STRAW BALES, DIKES, SEDIMENT PITS, MULCHES, FILTER FABRICS AND OTHER DEVICES AND METHODS. PARTICULAR CARE SHALL BE TAKEN TO AVOID EROSION AND SEDIMENTATION ON EXISTING PAVED AND GRAVELED AREAS. FOR RESIDENTIAL AND SMALL CONSTRUCTION SITES - PRIOR TO ANY SITE DISTURBANCE, THE CONTRACTOR SHALL HAVE IN PLACE EROSION CONTROL MEASURES PER EPA 830-F-15-001 GUIDELINES FOR STORMWATER PREVENTION.
14. ROOF AREA DRAIN LINES SHALL NOT BE EXTENDED THROUGH CURBS BUT SHALL BE DIRECTLY CONNECTED TO THE STORM SEWER SYSTEM.
15. ALL METAL CASTINGS SHALL BE PAINTED WITH TWO COATS OF BLACK ASPHALTUM PAINT.
16. WHENEVER STEEL PLATES ARE PLACED OVER A UTILITY TRENCH WITHIN THE ROADWAY PAVEMENT AREA, A TEMPORARY "STEEL PLATE" SIGN IS REQUIRED ON THE SIDE OF THE ROAD ON EACH SIDE OF THE TRENCH.
17. ALL EXISTING MONUMENTS SHALL BE PROTECTED AND OR REFERENCED BY THE CONTRACTOR. MONUMENTS SHOWN ON THE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN ON MONTGOMERY COUNTY STANDARD CONSTRUCTION DRAWING MC-1. MONUMENT BOXES SHALL BE LOCATED AT ROADWAY PI, PC, PT POINTS AS WELL AS CROSS STREETS CENTERLINE.
18. CONSTRUCTION STAKING MUST BE FURNISHED FOR THE CITY INSPECTOR TO VERIFY CONFORMANCE TO THE DESIGN PLAN. CONSTRUCTION STAKING IS REQUIRED AT SUFFICIENT DENSITY TO ENSURE THE CITY INSPECTOR CAN VERIFY THE WORK PERFORMED BY THE CONTRACTOR. CONTACT THE CITY INSPECTOR TO ENSURE ADEQUATE CONSTRUCTION STAKING IS FURNISHED.
19. ALL SURVEY MUST BE PERFORMED BY THE STATE OF OHIO LICENSED SURVEYOR.

## **SANITARY NOTES**

1. THE CONTRACTOR SHALL BE QUALIFIED TO CONSTRUCT SANITARY SEWERS. ALL SUCH WORK SHALL BE CONSTRUCTED ACCORDING TO CITY OF HUBER HEIGHTS SPECIFICATIONS.
2. ALL MAINLINE SANITARY SEWER PIPE AND FITTINGS SHALL BE A MINIMUM 8" DIAMETER PVC S3034 SDR 26, BE PLACED IN A MINIMUM 15' SANITARY SEWER EASEMENT AND SHALL BE A PUBLIC LINE, MAINTAINED BY THE CITY.
3. SANITARY SEWER PIPE JOINTS SHALL CONFORM TO ASTM D 3212 FOR PVC.
4. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
5. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL PERMITS HAVE BEEN ISSUED.
6. ALL UTILITY TRENCHES WITHIN THE EXISTING OR PROPOSED STREET RIGHT-OF-WAY SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH THE CITY SPECIFICATIONS AND DETAILS.
7. NO ADDITIONS, DELETIONS OR REVISIONS TO THE SANITARY SEWER ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF HUBER HEIGHTS.
8. WATER LINES CROSSING ANY AND ALL SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN THE OUTSIDES OF THE WATER MAIN PIPE AND THE SEWER PIPE. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SUCH THAT BOTH JOINTS WILL BE EQUIDISTANT AND AS FAR FROM THE SEWER AS POSSIBLE. IF WATER CROSSES BELOW SANITARY SEWERS, THE SEWER MUST BE WATER MAIN MATERIAL FOR THAT SPAN.
9. ALL SERVICE LATERALS SHALL BE PVC SCHEDULE 40 AND ARE TO BE INSTALLED FROM MAIN TO RIGHT OF WAY OR EASEMENT BEFORE STREETS ARE SURFACED.
10. ALL MANHOLES SHALL BE PRECAST IN ACCORDANCE WITH CITY STANDARDS. MANHOLE STEPS SHALL BE PLASTIC. ALL MANHOLE FRAMES AND LIDS SHALL BE DUCTILE IRON TRAFFIC BEARING WITH VENT HOLES TO BE AT THE OPTION OF THE CITY ENGINEER.

## **WATER NOTES**

1. THE CONTRACTOR SHALL BE QUALIFIED TO CONSTRUCT WATER MAINS. ALL WATER LINES AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO CITY OF HUBER HEIGHTS SPECIFICATIONS.
2. ALL MAINLINE (FIRE LINE) WATER MAINS, BENDS AND FITTINGS SHALL BE A MINIMUM 8' DIAMETER ZINC COATED DUCTILE CAST IRON PIPE AND CONFORM TO ANSI A-21.51 (AWWA C-151), CLASS 53. THE WATER MAIN IS TO BE PLACED IN A MINIMUM 10' EASEMENT AND BE A PUBLIC LINE, MAINTAINED AND REPAIRED BY THE CITY. MECHANICAL JOINT FITTINGS DO NOT HAVE TO BE ZINC COATED. THE USE OF STANDARD DUCTILE IRON (ANSI A-21.51, AWWA C-151) CLASS 53 PIPE HAS TO BE PRE-APPROVED BY THE CITY ENGINEER. BENDS AND TEES SHALL BE RESTRAINED USING MECHANICAL JOINT RESTRAINTS SUCH AS MEGALUG OR APPROVED EQUAL.
3. ALL WATER MAINS SHALL HAVE 4' -6" MINIMUM COVER.
4. NO SERVICE CONNECTIONS SHALL BE MADE TO THE WATER MAIN UNTIL THE MAIN LINE HAS BEEN INSPECTED, TESTED, AND FLUSHED FOR 12 HOURS MINIMUM. NO TAPPING WILL BE PERMITTED IN INCLEMENT WEATHER.
5. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL PERMITS HAVE BEEN ISSUED.
6. ALL UTILITY TRENCHES WITHIN THE EXISTING OR PROPOSED PAVEMENT OR EASEMENTS SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL CONFORMING TO ODOT 310 IN ACCORDANCE WITH THE CITY SPECIFICATIONS.
7. NO ADDITIONS, DELETIONS, OR REVISIONS TO THE WATER FACILITIES ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF HUBER HEIGHTS.
8. ONLY CITY OF HUBER HEIGHTS OR VEOLIA PERSONNEL SHALL OPERATE MAIN LINE WATER VALVES.
9. ALL FIRE HYDRANTS SHALL BE LOCATED 2' FROM AND WITHIN 5' OF THE CURB OR EDGE OF PAVEMENT AND 4" OPENING TO FACE THE STREET. THE FIRE HYDRANT IS TO BE INSTALLED AS PER THE DETAIL LOCATED WITHIN THE CITY OF HUBER HEIGHTS STANDARD DRAWINGS.
10. WATER LINES CROSSING ANY AND ALL SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN THE OUTSIDES OF THE WATER MAIN PIPE AND THE SEWER PIPE. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SUCH THAT BOTH JOINTS WILL BE EQUIDISTANT AND AS FAR FROM THE SEWER AS POSSIBLE. IF WATER CROSSES BELOW SANITARY SEWERS, THE SEWER MUST BE WATER MAIN MATERIAL FOR THAT SPAN.

11. ALL SERVICE LATERALS ARE TO BE INSTALLED FROM MAIN TO RIGHT OF WAY OR EASEMENT BEFORE STREETS ARE SURFACED.
12. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING WATER MAINS BEFORE CONSTRUCTION OF NEW WATER MAIN AT PROPOSED CONNECTIONS.
13. ALL GATE VALVES ARE TO BE LOCATED AT TEES OR CROSSES WITH A 2' MAXIMUM ANCHOR PIPE BETWEEN TEE OR CROSS AND VALVE. ALL PLUGS ARE TO BE CONNECTED TO VALVES EXCEPT WHERE SHOWN ON PLANS. PLUGS SHALL BE TAPPED WITH A 3/4" SHUT OFF VALVE FOR RELEASE OF AIR AND FOR FLUSHING.
14. ALL VALVES AND FIRE HYDRANTS SHALL HAVE RIGHT HAND (CLOCKWISE) OPENING DIRECTION.
15. GATE VALVES SHALL HAVE RESILIENT SEATS RATHER THAN BRASS SEATS. OPERATING RODS SHALL HAVE O-RING WATER SEALS RATHER THAN PACKING GLANDS.
16. ALL FIRE HYDRANTS IN **SINGLE FAMILY RESIDENTIAL DISTRICTS** SHALL BE MUELLER CENTURION 250 MODEL A-423 WITH 5-1 1/4" MAIN VALVE OPENING WITH ONE 5" STORTZ OUTLET WITH CAP AND 2 2-1/2" OUTLETS WITH CITY OF DAYTON THREADS.
17. ALL FIRE HYDRANTS IN **MULTI FAMILY RESIDENTIAL AND COMMERCIAL DISTRICTS** SHALL BE MUELLER CENTURION 200 MODEL A-425 WITH 5-1 1/4" MAIN VALVE OPENING TWO WAY WITH ONE 4" STORTZ OUTLET WITH CAP AND ONE 5" STORTZ OUTLET WITH CAP. OPERATING NUT TO BE A 1" SQUARE.
18. THE FIRE HYDRANT BREAKAWAY FLANGE SHALL BE LOCATED 4" ABOVE THE TOP OF CURB.
19. FIRE HYDRANTS SHALL BE PRIMED WITH RED OXIDE PRIMER AND PAINTED WITH TWO (2) COATS OF RED ENAMEL FROM THE BREAK-AWAY FLANGE TO THE TOP OF THE HYDRANT. LOWER SECTIONS OF THE HYDRANT, INCLUDING THE BARREL SHALL BE PAINTED WITH AN ASPHALTUM PAINT.
20. WATER SERVICE LINES SHALL BE 1" TYPE K COPPER PER CITY STANDARDS. METER YOKES AND METER VAULTS SHALL BE PER MONTGOMERY COUNTY STANDARDS.
21. BOLLARDS, WHERE REQUIRED, SHALL BE CONCRETE FILLED 8" DIAMETER POSTS WITH FOUNDATIONS SET 42" BELOW GRADE IN A CONCRETE FILLED EXCAVATION.
22. ALL HYDRANTS SHALL HAVE CITY OF DAYTON THREADS RATHER THAN NATIONAL STANDARD THREADS EXCEPT FOR THE STREAMER CONNECTION WHICH SHALL BE A STORTZ FITTING.

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