

Village of Wheeling – General Underground Utility Notes

- 1) All sewer construction shall conform to the approved permit plans unless revisions have been approved by the Village, as well as any and all other Agencies.
- 2) Trench backfill shall be provided under and within two feet (2') of all existing and proposed pavement. Concrete Curb & Gutter shall be considered a part of the existing and proposed pavement. Trench backfill material shall be CA-6, Grade 8, Crushed Limestone, virgin material unless otherwise approved.
- 3) All manholes and catch basin structures must be a minimum of 48" in diameter, valve vaults must be a minimum of 60" diameter, unless approved otherwise.
- 4) All underground construction requires CA-7, 8, 11 or 13 gravel or limestone bedding and backfill material. Bedding beneath the pipe shall be placed to a thickness equal to 1/4 of the outside diameter of the sewer pipe with a maximum thickness of 8 inches, but shall not be less than 4 inches. Bedding material shall extend to the spring line for rigid pipe or 12" above top of PVC pipe.
- 5) If required, all trenches shall be dewatered PRIOR to laying any pipe or jointing. Trenches shall be dewatered to maintain the water level below the base of the bedding.
- 6) Structures shall have a maximum of twelve inches (12") of adjustment rings with any combination up to a maximum of three (3) rings.
- 7) Concentric cone sections shall be used on all manholes, catch basins, vaults, etc. unless approved otherwise by the Village Engineer.
- 8) All storm, sanitary and watermain services to end at R.O.W. with proper termination for subdivision construction.
- 9) The contractor shall mark location of the ends, if necessary, of any sanitary, water, and storm services with buried 4" x 4" wood posts extending a minimum of three (3) feet out of the ground and painted red, blue, and green respectively, with appropriate signs attached stating "caution B-box do not remove until landscaping is complete."
- 10) A minimum ten feet (10') horizontal separation shall be maintained between watermain and sewer or drain lines unless precluded by local conditions. When the watermain is located closer than ten feet (10') horizontally or the invert of the watermain is located closer than eighteen inches (18") vertically above the crown of any sewer or drain line, then:
 - a. The sewer or drain line shall be constructed of pipe equivalent to watermain standards and shall be pressure tested to assure water tightness in accordance with the Illinois Environmental Protection Agency (I.E.P.A.) requirements and Sewer and the latest edition of Sewer and Water Standards.
 - b. When a watermain is crossing over a sewer or drain line closer than eighteen inches (18") vertically above the crown of that sewer or drain line, then that sewer or drain line shall be constructed according to the requirements listed in item "a" above.
 - c. If the watermain passes under a sewer or drain line, the following conditions shall be met: a vertical separation of eighteen inches (18") between the invert of the sewer or drain line and the crown of the watermain shall be maintained with support provided for the sewer or drain line(s) to prevent any moving or settling, rupture or breaking, and sewer or drain line shall be constructed as described in item 4) above.

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- 11) The cost of all required testing of underground utilities shall be incidental to the construction cost of the same.
- 12) When connecting to an existing sewer main by means other than an existing wye, tee, or an existing manhole. The sewer shall be circular saw-cut by proper tools (“sewer-tap” machine or similar) and proper installation of hub-wye saddle or hub-tee saddle.
- 13) Sewer connections to an existing structure shall be machine cored.
- 14) A flexible rubber boot shall be used at all sanitary sewer manhole penetration connections with Kor-n-tee fitting.
- 15) Protect and/or cover all pipes and underground structures until final grading, paving and landscaping are complete.
- 16) For modification or repair of all sewers; addition of, or repair of, sewer clean outs, **non shear** couplings shall be used in connection of sewer pipes with prior approval from Village Engineering Division of the Department of Public Works.