

Project Name:						
Pro	ject	Loc	cation:			
Submittal Documents: Yes No N/A Comments						
0			2 Sets of Signed Plans for Review			
0	0	0	PDF Version of the Signed Plans			
0	0	0	Hydraulic Analysis  Hydrant flow tests shall be completed by District personnel only			
0	0	0	Hydraulic Analysis Fees			
0	0	0	KY Division of Water Approval Letter &			
0	0	0	Water Line Extension Policy, Developer Agreement & Agreement for dechlorination and samples			
0	0	0	Escrow Deposit			
0	0	0	Encroachment Application(s)  KYDOT, County, Railroad, Electric, etc.			
Water Construction Plans: Yes No N/A Comments						
0	0	0	Project Title			
0	0	0	Date			
0	0	0	Vicinity Map			
0	0	0	Legend			
0	0	0	Sheet Index			
0	0	0	Contact Information			
0	0	0	Engineer's Seal and COA			
0	0	0	Benchmark (State Plane and NAVD)			
0	0	0	Overall Project Layout			
0	0	0	Overall Utility Layout no smaller than 1:200  Only necessary if water lines require multiple plan sheets			
0	0	0				
0	0	0	Plan sheets shall be 24" × 26"			



Water Construction Plans (cont'd): Yes No N/A Comments						
			Comments			
0	0	0	Street Names and R/W widths			
0	0	0	Lot Numbers			
0	0	0	North Arrow and Bar Scale			
0	0	0	Property Lines and Owner Info			
Ü	Ü	Ü	Troperty Lines and Owner mile			
0	0	0	Project Notes  Verify project notes do not conflict with the District's specification			
0	0	0	Water main construction sequence  Describe in detail how tie-ins, change overs, startups, etc. should be completed			
0	0	0	Existing Utilities			
			With size and material, if known			
0	0	0	Existing topography with labels			
0	0	0	Floodplains and water courses			
0	0	0	Proposed grading with labels			
			Shade so that proposed utilities are legible			
0	0	0	Proposed Utilities w/ Size and Material			
0	0	0	Project stationing increases left to right			
0	0	0	Minimum water line cover is 30"			
0	0	0	Existing and Proposed Valves  Proposed: 3 at tees, 4 at crosses, 1 at stubs; so that no more than 800 ft. of main should be shut down			
0	0	0	Existing Fire Hydrant(s)			
Ü	Ü	Ü				
0	0	0	Water line extends full length of property			
0	0	0	Stubouts for future development  Valve required before blow-off			
0	0	0	Water line behind curb/edge of pavement			
0	0	0	Water system is looped			
0	0	0	Profiles for proposed water line			
0	0	0	Utilities shown at all water line crossings			
0	0	0	On profiles only Appropriate blocking or pipe restraint			
0	<u> </u>	_	Appropriate blocking or pipe restraint			
0	0	0	Individual water services and meters			
0	0	0	Air release valves indicated if required			



# Water Construction Plans (cont'd): Yes No N/A **Comments** O O Blow-offs or means of flushing at dead ends sized to provide at least 2.5 ft./sec Label all proposed water appurtenances ○ ○ Encasement shall extend from right-of -way to right-of-way or 5' beyond edge of pavements (proposed or existing) 0 All existing and proposed easements ○ ○ Easement shown along water lines outside public right-of-way 0 O No proposed trees within 10' of water line O Proposed site improvements are shown clearly legible O O District's standard details Minimum clearances: Water 24" vertically above sewer ○ ○ Water 10' horizontally from sewer Water line must be encased if above clearances cannot be met **Proposed Fire Hydrants and Spacing:** Street Intersections ○ ○ 500 ft. maximum spacing for developments

If necessary, larger mains shall be required to maintain minimum residual pressure

0 0

Minimum 6" water line diameter

#### Standard General Water Notes:

- 1. The Contractor shall fully comply will all Local, State and Federal safety and environmental regulations governing utility construction.
- 2. The Contractor shall verify the location of all existing utilities prior to beginning construction. Contact Kentucky811 at 811, 1-800-752-6007 (nationwide), or www.kentucky811.org at least 72 hours prior to beginning construction. Contractor shall be responsible for any and all damages to existing utilities resulting from negligence and/or failure to properly locate and protect said utilities.
- 3. Existing and proposed water main locations shall be verified by Hardin County Water District No. 2 prior to construction.
- 4. The Contractor shall notify the District forty-eight (48) hours prior to beginning water line construction, including to inspect/witness taps and pressure tests.
- 5. Construction practices and procedures shall conform to current AWWA standards and also conform to Hardin County Water District No. 2 Standards Specifications and Details for water main design, construction and materials. Specifications are on file at the District office. The Contractor shall refer to said specifications and details for all typical detail drawings.
- 6. Submit shop drawings to the District for review and approval prior to beginning work.
- 7. All water lines shall conform to ASTM specifications D–1784, C900–DR18 joints shall be slip—type with rubber gaskets conforming to ASTM–1869.
- 8. Fittings shall be Ductile Iron in accordance with AWWA C110 or C153 and shall be manufactured for the size and pressure class of the line on which they are used.
- 9. All valves shall conform to AWWA C509. Blow-off valves smaller than 4" shall conform to AWWA C500.
- 10. All water line crossing proposed paved surface shall be backfilled full depth with crushed stone.
- 11. All pipe and fittings shall have a minimum of 6" bedding of dirt under and on both sides of pipe unless otherwise specified. All pipe and fittings shall be backfilled with dirt unless otherwise specified.
- 12. All fittings: 90° bends, tees, etc., shall be blocked with a minimum of 12" poured concrete against undisturbed soil.
- 13. Water lines shall be installed a minimum 30" below the elevation of the finished roadway immediately adjacent to the pipe.
- 14. All fire hydrants shall be standard 3–way 5 ¼" breakaway type with a minimum 3 ½–foot bury, turning left to open and right to close. All fire hydrants shall be painted Body National Blue and Caps Silver in color. Fire hydrants must be installed with the base of the fire hydrant 2–3" above final grade.
- 15. Valves shall not be installed within sidewalks, curb or gutter, or driveways. All valves shall have cast iron valve boxes extending no more than ½" above final grade or 2" in unsodded areas. Gate valves shall turn right to close and turn left to open.
- 16. Only District personnel shall operate the District's existing valves.
- 17. The Contactor shall notify the District and all property owners 24 hours prior to cutting any existing water service off. Water service shall not be interrupted for more than 4 hours at any one time unless otherwise directed by the District.
- 18. All water lines and services, regardless of material, shall have a tracer wire installed along the top half of the pipe.
- 19. After installation, all water lines shall be pressure tested (150 PSI @ 2 hours), disinfected with a chlorine solution (50 PPM initially and 25 PPM after 24 hours), and have passing bacteriological tests prior to being placed into service.