

15720 - Natural Gas Polyethylene Main Installation		March 1, 2018
1.3.2	Depth means the distance from the top of the distribution line to finished grade	
3.1.12	Above ground pipeline markers (KUB Item #362420) shall be installed directly over, where possible, or as close to the pipeline in areas where frequent excavation occurs, major intersections, railroad or railroad spur crossings, any type of water crossing such as a creek, stream, or river and/or per the RPR's request.	
3.3.1.5	Warning tape (KUB Item #371534) shall be installed 12 to 18 inches below existing or proposed grade directly above the PE main.	
3.3.2.3	When pulling the pipe through reamed borehole, the tensile loads in TABLE 2: Maximum Allowable Tensile Loads shall not be exceeded. RPR shall be notified one full business day prior to pull back operations and may require on-site presence during pull back operations. An appropriately sized Condux International, Inc break away swivel weak link device shall be used during pull back activities. Break away weak link devices other than the Condux International products shall be submitted for approval to OWNER prior to use.	
3.4.4	When crossing a heat source, including, but not limited to a steam line, installation of PE Pipe shall follow the utility crossing detail, Detail 1: Crossing a Heat Source , as shown below.	
3.8.1	Backfill shall be free from any material that could cause damage to the pipe including, but not limited to: large rocks, sharp rocks, large dirt clods and/or any construction debris or trash.	
3.8.2	In rocky excavation zones, a minimum of 6 inches of clean and compacted fill material shall be installed prior to the pipe being lowered into the trench. The pipe is then installed and side filled to the required trench width with clean and well-compacted fill material. Pipe shall be covered with a minimum of 6 inches of clean and well-compacted fill material prior to final backfill.	
3.10.1	RPR shall be notified, at a minimum, one full business day prior to pigging main(s).	
3.10.4	The pig shall be caught as it exits pipe in a manner that ensures prevention of property damage, injury to employees, and injury to the public.	
3.11.1	Pressure testing shall be performed for all main and appurtenances after installation.	
3.11.3	All main and appurtenances shall be pressure tested with inert gas or air free of contaminants to a minimum of 92 psig and a maximum of 96 psig. The pressure test shall establish an MAOP of 60 psig and detect any potentially hazardous leaks.	
3.11.6	Edited TABLE 4: Pressure Testing Durations by increasing the test segment length to 10,000 feet.	
TABLE 4. Note 1.	If the pipe length to be tested is not included in this Table, a plan for pressure testing shall be developed by OWNER as a part of the startup plan.	
TABLE 4. Note 2.	It is OWNER's intent to limit pressure tests for 8-inch and 12-inch pipe to 2,000 feet or less. OWNER reserves the right to reject proposed pressure tests not within the limits of TABLE 4 .	
3.12.4	To prevent unintended customer outages, RPR shall check existing valve positions within the applicable areas to ensure system conditions are understood just prior to tie-in activities. RPR shall coordinate with System Operations on all valve operations and shall install pressure gauges as per the startup plan to monitor pressures during tie-in activities.	
3.12.9	All final tie-in connection points shall be soap tested at operating pressure.	

3.13.2	A fire extinguisher shall be manned and positioned, upwind if possible, from the purge point at all times during purging activities.
3.13.7	RPR must be notified no less than three full business days prior to the start of any purging activities and RPR must approve the request to purge.
3.14.1.2	Excluding KUB holidays and weekends, RPR shall be notified three full business days prior to condemning a natural gas main.
3.14.1.3	To prevent unintended customer outages, RPR shall coordinate with System Operations to check and confirm the position of all valves within the applicable areas and system conditions are understood just prior to condemnation activities. RPR shall install pressure gauges as per the startup plan to monitor pressures during condemnation activities.
3.14.2.2	If valve boxes are not immediately demolished or removed when natural gas is purged from the main, valve box lids shall be painted white until demolishing per 3.14.2.1.
3.14.4.1	Mains on bridges shall be condemned by physically removing all above ground main and its components. Fused, mechanical, or welded end caps shall be installed on the pipeline that is abandoned below ground.
3.16.2.2	Test station NGUS's shall be submitted to the RPR within two business days of completed installation or condemnation.
3.16.3.1	A final boring profile (electronic is preferred) shall be submitted to RPR within two business days of completed bore.