FIRE HYDRANTS
1. All fire hydrants shall be either:
   - Mueller Crown 5-1/4-inch fire hydrant
     Manufactured by Mueller Co., Decatur, Illinois.
   - Kennedy K-810, 5-1/4-inch fire hydrant
     Manufactured by Kennedy Valve, Elmira, New York.

2. All fire hydrants shall have:
   - 6-inch mechanical joint nut connection
     One (1) 4-1/2-inch straight nozzle
     Two (2) 2-1/2-inch hose nozzles
     Open top fire hydrant including 2 1/2" cap nut, fire hydrant stem & hose threads to be National Standard or North Penn threads as noted on drawing.
   - Non-recessed water from fire hydrants may not be used for any purpose by the developer or contractor. Water may be obtained by contacting Penn Water Customer Service Department between April 15th and November 15th. Unauthorized use of water from fire hydrants is subject to criminal charges.

CHLORINE DOSAGES

<table>
<thead>
<tr>
<th>Depth of pipe in inches</th>
<th>Chlorine dosage in tablets per hour</th>
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<tr>
<td>2</td>
<td>4</td>
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<td>4</td>
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<td>10</td>
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<td>12</td>
<td>16</td>
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</table>

1. Tablets shall be attached with an FDA approved food grade adhesive (poly dip) in each piece of pipe installed.
2. Calcium Hypochlorite conforming to NS/AAWA Grade A is available in 5-4 tablets, and contains approx. 65 percent available chlorine by weight.

TRAFFIC CONTROL
1. Traffic control on all state, township, and borough roadways will be in accordance with Penn DOT specifications, publication 203, PC 178 & 179.

ROADWAY AND RIGHT OF WAY
1. roadway right of way restoration will be in accordance with Penn DOT specifications on state roadways, township and borough specification on local municipally maintained roadways.

TAPS
1. All service trenches are required to have 2 A modified stone backfill.
2. All taps are installed by either NFMA or contractor.
3. Services will be installed at the location determined by developer.
4. Service taps will be installed only when the following requirements are met:
   - A pressure test with a minimum pressure of 150 PSI for four (4) hours without leaks, conducted by the contractor and witnessed by NFMA.
   - A pressure test is taken after the lines are flushed with residual chlorine of 1.0 ppm or less, conducted by NFMA.
5. Curb boxes will be maintained in a vertical, operable condition. It is the developer’s responsibility to repair, replace and restore all damaged, destroyed or buried curb boxes.

All mains, corporations & curb stops shall be a compression type meeting the standards Mueller J9-250 or Mueller J9-250 with pressure rating of 300 PSI.
7. Curb boxes will be telegraphing type with stainless steel plug in center of 10” riser pipe will be 1” diameter to accommodate the stainless steel curb rod & service line will be type “C” copper.

ABANDONED MAIN
1. Any obsolete valve boxes and hydrants will be identified and removed under the direction of a NFMA inspector.
2. Abandoned valve boxes are to have the upper portion removed 1” below the grade. The valve box will be filled using 2-1/2 modified stone when working in paving or suitable fill when working outside the paved area. The work area will be restored to the surrounding conditions.
3. Abandoned non-breakaway hydrants are to be cut 1” below the ground surface. Abandoned breakaway hydrants are to be extracted from the mechanical joint of the connecting pipe. The hydrant extension will be placed using 2-1/2 modified stone when working in paving or suitable fill when working outside the paved area. Breakaway hydrants will be saved and returned to inventory.
4. Once removal is complete, the work area will be restored to the pre-existing surrounding conditions.

FIELD NOTES & FIELD DIMENSIONS
1. North Penn Water Authority requires their contractors to supply the Authority with daily field notes and an as-built drawing. NFMA’s Construction Inspector will supply daily field note sheets.