UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR EXTENDING WATER DISTRIBUTION SYSTEMS

SECTION 3

CONSTRUCTION REQUIREMENTS
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CONSTRUCTION REQUIREMENTS

3.01 Preconstruction Requirements

A. Submission of the Authority’s agreements

1. Developer shall enter into a Main Extension Agreement (MEA), an Agreement for a Private Water Main Extension Off a Public Main (PWME), or a Water Service Installation Agreement (WSIA) with the Authority and a Private Fire Protection Service Agreement and/or a Maintenance Agreement when required. Submit all required payments, before any of these agreements will be executed by the Authority. Developer shall submit the properly executed MEA, PWME, or WSIA with completed insurance forms from both the Developer and the Developer’s Contractor, and all required payments to the Authority at least two weeks in advance of construction.

2. Developer shall submit two signed and notarized originals of the MEA, PWME, or WSIA to the Authority. One copy will be returned to the Developer after execution by the Authority.

3. Executed agreements become void if the Authority’s plan approval expires. After plan approval expiration, the Developer’s payment(s), less any of the Authority’s costs incurred, shall be returned, and the agreement closed.

B. Submission of insurance documents

1. Developer shall, along with every contractor and sub-contractor involved in the water system construction, furnish the required insurance certificate, as stipulated in the MEA, PWME and WSIA agreements.

2. Submit certificates that are signed by the insurance carrier’s authorized representative with the MEA, PWME, or WSIA agreement. If the Developer or involved contractor(s) have more than one insurance carrier, then each carrier must sign its own certificate.

3. When a Developer has no employees it is exempt from having to obtain Worker’s Compensation insurance. If a Developer has no vehicles, then it is not required to have Comprehensive Auto Liability coverage. These are the only exceptions to the insurance coverage requirements.

4. Whenever there is a partnership, joint venture or other cooperative group, which is not a legal entity and which cannot provide insurance, then the underlying individuals or companies making up the partnership, etc., must be a party to the MEA, PWME, or WSIA agreement. All the involved individuals or companies must sign the applicable agreement and provide the required insurance coverages.
C. Submission of permits and approvals

1. Developer shall obtain all necessary permits and approvals required to install the proposed water system, which includes, but is not limited to the following: Department of Public Health (DOPH) Approval of Public Water Supply Improvements, DOPH Approval of Backflow Prevention Device(s), all applicable highway permits, DEC permit(s), Army Corps permit(s), and any special utility crossing approvals (petroleum pipelines, high pressure gas mains, etc.). Submit copies of all permits and approvals prior to the start of construction.

2. The Authority will not schedule any connections to be made, on existing mains, without having all of the proper permits and approvals in hand.

D. Submission of plans

1. Developer’s Engineer shall furnish the Authority with one complete set of contract drawings and four prints of approved utility drawings, including signatures for all involved agencies that can impact the water system design.

2. Developer’s Engineer shall furnish the Authority one utility plan in electronic format (AutoCAD in non-Civil 3D formatting) before work commences.

3. Developer’s Engineer shall furnish GPS records of water main and appurtenances installed.

E. Notification of Engineer

1. Developer shall submit to the Engineer the name of the Contractor who will install the water mains and appurtenances. Submit information with the executed MEA, PWME, or WSIA agreement.

F. Submission of Soil Testing Reports

1. Submit results of DIPRA Ten-Point tests performed on soil samples taken from the proposed water main location, at main elevations proposed.

2. Submit results of sampling for volatile organic compounds and hydrocarbons at Hazmat Spill sites and gas stations (existing or abandoned), and areas with contaminated soil.

G. Submission of Water System Cut Sheet

1. Developer’s Engineer shall provide a copy of the water system cut sheet from which the construction survey controls will be established.

H. Notice for Scheduling Water Main Connections
1. Developer and/or Contractor shall contact the Authority’s Distribution System Supervisor to schedule taps or any other tie-in connections to existing mains. Taps will not be scheduled if any forms, permits, approvals, agreements, insurance or cross connection control approvals are outstanding.

3.02 Contractor’s Preliminary Responsibilities

A. Install the water system in accordance with the Approved Plans, the Material and Performance Specifications in Section 4 and as shown on the drawings in Section 5. Any additions, deletions or changes shall first be submitted by the Developer’s Engineer for the Authority’s review and approval prior to constructing any change.

B. Comply with all restrictions imposed by any permit, easement or approval obtained for this project.

C. Complete all rough grading, within construction limits of the proposed water system, to within one foot of final grade prior to installing the water main, services and appurtenances.

3.03 Construction Survey Control

A. Developer’s Engineer shall provide, prior to the start of construction, accurately established construction survey control, using stakes and hubs placed on the right-of-way line that is on the same side of the road as the proposed main or on the easement line if no right-of-way is nearby. Label each survey control stake with the offset to water main, station, final road grade at centerline, and the cut or fill required. Place hubs every 100 feet and at the beginning and end of all points of curvature. Place stakes every 50 feet on straight runs, every 25 feet on curves, and as required by the Authority. Stake property all corners that front the water system on both sides of the right-of-way or easement for each parcel receiving an advance service.

B. The Authority’s record drawings are created using exact measurements taken from accurately established survey controls, therefore each stake and hub must be established prior to the installation of the water system. Use of arbitrary off-sets to the proposed water main location is not acceptable. Contact the Authority after survey controls are establish to verify if they are acceptable, as no inspection work will be performed without proper survey control.

3.04 Material and Installation Requirements

A. Developer and Contractor shall perform all work in accordance with the Approved Plans, MEA, PWME, or WSIA agreement, and in accordance with the Material and Performance Specifications in Section 4 and as shown on the drawings in Section 5.

B. All manufactured materials (pipe, valves, fittings, meters, etc.) shall be new and suitable for use in municipal potable water distribution systems. Used or refurbished materials are not
permitted. Materials shall meet the minimum standards of AWWA, ASTM, NSF, or certifying entity acceptable to the Authority.

3.05 Water System Testing Requirements

A. Developer or Contractor shall pressure test, flush, disinfect and health sample all new water mains and appurtenances in accordance with the Materials and Performance Specifications in Section 4. All testing must be done in the presence of the Authority’s Representative and the Developer’s Engineer, and all health samples must be taken by the Department of Health or Department of Health approved and certified testing laboratory, at the Developer’s cost.

B. Coordinate filling and flushing with the Authority’s Representative as only Authority personnel are permitted to operate valves on existing mains, including new tie-in valves. Under no circumstances shall water from new water systems without a passing health sample be allowed to enter existing water mains.

3.06 Water System Activation Requirements

A. Developer shall submit a copy of the Department of Health approval of the health sample(s) to the Authority. After receipt of DOH approval and completion of the items noted under Article B below, the Authority’s Representative will place the water system in service.

B. Activation of the water system is dependant on the successful completion of the following:

1. Receipt of DOH approval of all health samples.

2. Inspection of all hydrants and valves, by the Authority’s Representative, to ensure proper operation and accessibility.

3. Removal and plugging of all sample taps under the inspection of the Authority’s Representative.

C. If the water system is not activated within six weeks of the Health Sample approvals, the system must be re-chlorinated and new Health Samples collected and approved.

3.07 Material Affidavit and Cost Statement

A. Developer shall submit to the Authority within two weeks of receiving passing health sample test results, and prior to the water system being placed in service, a Material Affidavit affirming that all materials installed meet the Authority’s standards and a statement of the total quantity and cost of water mains and appurtenances installed under the MEA or PWME agreement.
3.08 Guarantee and Warranty

A. Guarantee Period shall last for a minimum of one year. The Guarantee Period shall formally commence when the Authority activates the main and receives all required submittals and issues a letter stating so. The Guarantee period may be extended by the Authority during winter months and as stated in Article D below.

B. Developer’s responsibilities during the Guarantee Period include:

1. All items under the Guarantee Period and Responsibilities section of the MEA or PWME agreement, including items which require immediate action.

2. Bringing all valve, curb boxes and hydrants to final grade as it is established on each lot. Mini-manholes in new finished driveways can be kept if paved, if in stone, then remove the mini-manholes. Bring all blow-offs located in front of lots that can be developed to grade, and leave all blow-offs located in areas that will not to be developed above grade.

C. The Authority shall perform a preliminary final inspection and generate a list of deficient items that must be addressed by the Developer prior to the end of the Guarantee Period. The Authority shall generate the list of deficient items approximately two months prior to the end of the Guarantee Period.

D. In the event that the Developer does not adequately address all deficient items, the Authority may, at its discretion, extend the Guarantee Period or perform the work and deduct the cost of such work from the Developer’s repairs deposit. If the repairs deposit does not cover all of the cost of the Authority’s work, the Developer will be invoiced for the outstanding amount. Upon final resolution of all outstanding repair items and invoices, the Authority will notify Developer that the Guarantee Period has expired.

E. Developer shall warrant and guarantee, without time limitations, that all work performed under the MEA or PWME agreement has been performed in strict compliance with these Standards.

F. Nothing, including final acceptance, the expiration of the Guarantee Period or the discovery of a condition covered by this Section following the expiration of said period, nor partial or entire occupancy or use by the Authority, nor any other provision of the MEA, PWME agreement or these Standards shall operate to waive this warranty or relieve Developer from his obligations under this Section.

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