

Note to users of the online version of this document:

The City of Mebane's Standard Specifications and Details are separated out to allow for easier access and downloading from the City's website but the Standards Details and Specifications are to be used as a complete product. It is the users responsibility to download the entire document.



**WATER TAPS OVER ¾" IN SIZE**

1. WATER TAPS OVER ¾" SHALL BE MADE BY OTHERS TO CITY SPECS.
2. A PRE-CAST VAULT SHALL BE USED WITH PRIOR CITY APPROVAL.
3. AN ALUMINUM DOUBLE HATCH BILCO TYPE COVER WITH DOUBLE DOORS WITH A MINIMUM OF 30" X 30" OPENING.
4. COPPER PIPE, BRASS VALVES AND BRASS FITTINGS SHALL BE USED WITH PRIOR CITY APPROVAL.
5. A BY-PASS SHALL BE USED ON ALL TAPS 1 ½" AND GREATER.
6. ALL METERS AND METER VAULTS SHALL BE PLACED ON THE PROPERTY LINE OR RIGHT OF WAY.
7. ALL BACKFLOW ASSEMBLIES SHALL BE TESTED PRIOR TO CITY ACCEPTANCE.
8. ALL BACKFLOW PREVENTION DEVICES SHALL BE ABOVE GROUND IN A HOT BOX WITH AN ELECTRIC POWER OUTLET FOR A HEATER.

## **SEWER TAPS**

1. ALL SEWER TAPS SHALL BE MADE BY THE CITY UNLESS OTHERWISE SPECIFIED.
2. 4" SEWER TAPS SHALL BE THE MINIMUM SIZE PERMITTED BY THE CITY.
3. ALL SEWER SERVICES SHALL BE WITH THE WATER SERVICE.
4. ALL SEWER SERVICES SHALL HAVE A CLEANOUT AT THE PROPERTY LINE.
5. ALL SERVICE PIPE SHALL BE PVC, SCHEDULE 40.

## **FIRE LINES AND SPRINKER SYSTEMS**

1. ALL VAULTS AND DETECTOR CHECKS SHALL BE SET ON THE PROPERTY LINE OR RIGHT OF WAY.
2. DETECTOR CHECKS SHALL HAVE A BY-PASS METER SET AT GROUND LEVEL IN A CAST IRON METER BOX WITH CAST IRON LID.
3. VAULTS SHALL HAVE A PROVISION FOR DRAINAGE.
4. ALL BACKFLOW ASSEMBLIES LARGER THAN 2 INCHES SHALL BE ABOVE GROUND IN "HOT BOX" OR EQUAL ENCLOSURE AND TESTED PRIOR TO CITY ACCEPTANCE. BACKFLOW ASSEMBLIES ARE ALLOWED IN VERTICAL RISERS IN BUILDINGS WHERE ACCESS CAN BE READILY GAINED BY THE CITY.
5. ALL FIRE DEPARTMENT CONNECTIONS SHALL BE LABELED (FDC) WITH 6 INCH LETTERS IN FRONT OF BUILDING WITH DIRECTIONAL ARROWS POINTING TOWARD LOCATION.

## **GENERAL UTILITY REQUIREMENTS**

### **1. UTILITY LOCATIONS**

- Water line under the sidewalk or roadway shoulder 5-feet off edge of pavement.
- Sewer line - middle of street or 5-feet off edge of pavement.
- Natural gas between sidewalk and curb and gutter or in roadway shoulder.
- Electric underground in 10' utility easement.
- Telephone in 10' utility easement.
- Cablevision in right of way behind sidewalk or in utility easement.

### **2. WATER AND SEWER IMPROVEMENTS**

- All water lines are to be a minimum of 8" in size except for cul-de-sacs where 6" is allowed when less than 600 ft. and 4" is allowed when less than 400 ft.
- Water main is to be ductile iron pipe class 50 only.
- Sewer mains are to be a minimum of 8" in size.
- Sewer mains are to be Vitrified Clay Pipe or D.I.P., Class 50, except that SDR 35 may be used in residential areas.

### **3. STORM DRAINAGE**

- All storm drains are to be a minimum of 15" in size.
- Materials are to be reinforced concrete pipe. Alternative pipe material may be used as approved by the Public Works Director.
- Curb inlets to be located where no more than 1.0 acre of drainage contributes to any inlet except in sags where 6' wide basins can be used which will be allowed to drain 1.5 acre sub-basins.

### **4. CONCRETE SIDEWALKS**

- 3,000 P.S.I.
- 5' wide and 5" thick.

### **5. OTHER**

- Any changes to the general requirements shall be preapproved by the Public Works Director.
- City of Mebane Standard Specifications and Details are to be used.
- No burning allowed inside the City of Mebane.

## **BROKEN OR DAMAGED CURB AND GUTTER REPLACEMENT POLICY**

The following methods will be permitted for replacement of broken or damaged curb and gutter:

1. REPLACE THE COMPLETE SECTION OF CURB AND GUTTER.
2. REPLACE A 5-FOOT SECTION OF CURB AND GUTTER WITH 2 - #6 REBAR ON EACH END OF THE 5-FOOT SECTION EMBEDDED 1-FOOT DEEP INTO EACH PIECE OF ORIGINAL CURB DOWELED IN WITH NON-SHRINK GROUT OR APPROVED EXPOXY.
3. REPLACE A 5-FOOT SECTION OF CURB AND GUTTER WITHOUT THE REBAR AND GIVE AN ADDITIONAL 12-MONTH WARRANTY FOR A TOTAL OF 24 MONTHS AFTER ACCEPTANCE BY THE CITY.

## **CONSTRUCTION INSPECTION**

Construction inspection on improvements to become city owned and maintained shall be provided by the city or their designated representative, upon payment of required utility inspection fees. The City shall be advised of any construction problems during the project and shall witness all tests prior to acceptance by the City. All costs associated with tests, etc., shall be borne by the contractor. It is noted that the developer/contractor will need to provide compaction testing in trenches and roads by a certified geotechnical company at their own cost and at an interval as approved by the city.

Any substantial changes made in the approved plans shall be made by the design engineer and copies provided to the city. Should such changes require a permit modification, the design engineer shall provide such revised plans and permits to affect approval of the modifications.

The City will provide the required engineering certifications related to water and sewer permits; however, the design engineer shall provide the as built plans prior to such certifications and acceptance by the City.

## **CONSTRUCTION AS-BUILTS**

The City shall be furnished a complete set of "As Built" plans at the completion of all water, sewer and street projects. No service will be provided until such "as built" plans are provided.

"As Builts" shall include actual rim, top of grate, top of curb, invert elevations of all sewer and storm sewer manholes, catch basins, and junction boxes. The "As-Builts" shall also include all valve and blow off "tie downs" to at least two (2) permanent markers and provided on 8 1/2" x 11" sheets as Intersection Drawings with each street name clearly identified. Provide one (1) reproducible copy and one (1) copy of the "As-Builts". If in digital format, provide a copy on CD-ROM.

### **SEWER LINE TIE-INS**

All sewer tie-ins to existing manholes shall be cored with a boot.

All 6" or greater sewer service lines shall tie into manholes.

### **Parking Lots**

1. All parking lots shall be paved.
2. All parking lots to have standard curb and gutter.
3. Curb and gutter to meet the same specification as in street specifications.