## 12G. FIELD INSTALLED SERVICE LATERAL CONNECTION SPECIFICATIONS

### 12G.01 General

a. A separate and independent building sewer shall be provided for each building. The minimum size shall be four (4) inches for a single-family unit and six (6) inches for a commercial unit.

b. The building sewer shall be connected into the public sewer at the curb or property line, if a service connection sewer is available at this location. Where no curb or property line located service connection is available; the owner of the building sewer shall extend the building sewer to the public sewer and connect to the nearest wye or tee available on the public sewer. If no wye or tee exists on the public sewer within the immediate vicinity of the frontage of the lot or tract of land that the building sewer is to serve, the owner of the building sewer shall have a wye or tee installed on the public sewer in accordance with requirements hereinafter set forth. The building sewer lateral shall be owned and maintained by the owner of the property served by such building sewer from the easement or right-of–way line to the building served.

c. The depth shall be a minimum of three (3) feet and be sufficient to afford protection from frost. The sanitary building sewer shall be laid at uniform grade and in straight alignment. Changes in direction shall be made only with proper pipe fittings.

d. In those instances where the public sewer is not of sufficient depth to serve the basement fixtures, the owner will be permitted to install a high level connection and pump laundry waste and the waste from the basement floor drains to the sanitary sewer by means of an approved sanitary pump.

### 12G.02 INSTALLING FACTORY WYE ON EXISTING MAINS

a. Connections to existing public sewers where wyes or tees are not available shall be made by one of the following methods:

i. In the event that a standard wye or tee is to be installed in the field: The fitting shall be installed by cutting out a section of the sewer main, maintaining square ends, and inserting the standard wye or tee pipe section. The joints created as a result of the cuts shall be sealed using Hymax couplers or Hymax flanged adapters or approved equal. Each joint space between the existing pipe and the inserted section shall not exceed one (1) inch. All pipe and wye connections will require installation of two couplers (one at each end of the insertion).

ii. Whenever the sewer is deeper than nine (9) feet at the service lateral, a 45° riser pipe shall be installed up from the fitting unless full depth is required for service lateral grades.

iii. A Department Representative shall inspect each service lateral connection at the time of its installation. The Department Representative shall be present during the physical installation of the wye connection. Inspection must be performed prior to covering the service lateral connection. All materials for proper backfill

must be on site at the time of inspection. If the inspector must return to the site to reinspect the sewer due to lack of proper materials being on site, a reinspection fee shall be assessed. Because the work will require a Department Representative to be present during the entire installation of the field tap, actual costs incurred will be paid by the party requesting this exception.

iv. Sanitary sewage shall be contained within the sanitary sewer system during the installation process.

## 12G.03 INSTALLING SADDLE TAP ON EXISTING MAINS

a. The standards generally require all sewer lines to have factory installed wye or tee fittings for each building unit occupied. The standards allow for an exception to this general practice. The exception must be requested on a case by case basis. The request must be accompanied by a written request stating the reason for the exception. A specification sheet of the tapping saddle to be used must also be submitted with the written request. The Utility Committee shall have the authority to accept or deny the request.

b. If the Utility Committee approves the Field Saddle Tap, the following procedures shall be followed:

1. All recommendations from the manufacturer of the saddle shall be followed; including banding the saddle to the receiving pipe with stainless steel straps after the saddle is glued to the pipe.

2. Only factory manufactured and molded saddle wye connectors shall be acceptable.

3. The saddle shall properly match the sanitary sewer main pipe type. The primer and glue used must match the manufactures recommendation.

4. Upon exposing the sewer main and prior to cutting the insertion hole in the main, a Department Representative must be present at the site. The inspection of the tap should be scheduled with the Department at least 24 hours in advance.

5. The cut on the existing pipe must be no larger than is necessary to install the saddle and, generally, must be made by following a properly applied template to assist the worker making the cut. The coupon cut out of the sewer main must be presented to the Department Representative.

6. Rough edges left by the saw cut should be smoothed with a file or sand paper. The saddle should then be dry-fit to assure proper alignment and fit of the hole to the saddle. Over cutting the hole or otherwise damaging the sewer main will be considered unacceptable and will warrant the replacement of the damaged main line segment and the installation of a factory wye per Section 12G.02.

7. Proper preparation of the pipe exterior surface shall be required in accordance with the manufacturer's specifications. The exterior surface of

the pipe shall be clean, dry and primer applied to the mating surfaces before the glue is applied and the saddle is installed and strapped down. The saddle must not be moved once it makes contact with the pipe. Under normal conditions (73 degrees F and 50% of humidity) the joint, when properly made, will reach 50% of its ultimate strength in 24 hours. The chemical bond between the PVC main and saddle must be allowed to set a minimum of one (1) hour prior to backfilling the trench

8. Backfill should be carefully selected and tamped around the pipe and saddle to provide firm and continuous support for both.

NOTE: The colder the weather, the greater the time required for the primer to etch the saddle. Saddle should be heated to 40 degrees F or higher by means of light bulbs, catalytic heater, etc. During cold weather it may be necessary to apply two or more coats to create sufficient etching. See that both mating surfaces are allowed sufficient time for the joint to set up before applying any load. P-70 primer and 717 glue have been used successfully at temperatures below zero; however, it is difficult to obtain good joints under these conditions and it is not recommended. The Department representative shall inspect the connection to determine if the pipe and surfaces are etched and wet with primer before applying the cement. The chemical bond between the PVC main and saddle must be allowed to set a minimum of one (1) hour prior to backfilling.

**Town of Newburgh**
**Field Installed Service Tap**
**Inspection Report**

Newburgh Wastewater Treatment Facilities
6366 Vanada Road, Newburgh, IN 47630
Phone: (812) 853-6412 Fax: (812) 853-1731

Owner: _____ Contractor: _____

Subdivision: _____ Section: _____ Date: _____

Lot Number: _____ Time: _____ Temperature: _____

Address: _____ Account Number: _____

| | | |
|---|---|---|
| 1. Is the Tap a field installed factory wye that is being cut into the sewer main? If "YES", go to 1a. If "NO", go to 2. | Yes ☐ | No ☐ |
| 1a. For an active line, is there a means to prevent sewer overflows onto the ground by using by- pass pumping, a suction truck or other means? | Yes ☐ | No ☐ |
| 1b. Are the ends of the main cut square (perpendicular) to the pipe? | Yes ☐ | No ☐ |
| 1c. Is the gap between the existing main and the new pipe ends (where the mechanical couplers are to be installed) one inch or less? | Yes ☐ | No ☐ |
| 1d. Have two mechanical couplers been provided for the installation? | Yes ☐ | No ☐ |
| 1e. Is the sewer main deeper than nine feet? If "YES", a 45° riser pipe must be installed to lessen the depth of the lateral serving the unit. | Yes ☐ | No ☐ |
| 1f. Is sufficient quantity of granular backfill provided at the site to bed, backfill and cover the lateral as shown in detail A2.1? | Yes ☐ | No ☐ |
| 2. For installation of a Saddle Tap, has the exception to the tap policy been approved by the Utility Committee? If, "NO", the tap cannot be installed. | Yes ☐ | No ☐ |
| 2a. Does the contractor have the template to make the exact location of the hole to be cut for the saddle tap? The saddle hole can be used as a template. | Yes ☐ | No ☐ |
| 2b. Has the contractor presented the coupon cut-out to the Newburgh Representative for proper disposal? | Yes ☐ | No ☐ |
| 2c. Has the contractor dry-fit the saddle after the hole was cut to confirm a proper fit? | Yes ☐ | No ☐ |
| 2d. Has the sewer main been damaged? If the answer is yes, the contractor must cut in a factory wye per Section 12G.02, removing and repairing the damaged section of pipe. | Yes ☐ | No ☐ |
| 2e. Prior to applying the primer has the hole opened for the saddle been cleaned of all foreign material and burs from the sawing operation? | Yes ☐ | No ☐ |
| 2f. When applying the primer, has the entire mating face of the saddle and pipe been covered with the primer material? | Yes ☐ | No ☐ |
| 2g. When applying glue, has the entire mating face of the saddle and pipe be covered with glue? | Yes ☐ | No ☐ |
| 2h. Are two stainless steel straps provided to hold the saddle to the pipe during the curing process? | Yes ☐ | No ☐ |
| 2i. Has the contractor waited one hour prior to backfilling the new saddle tap? | Yes ☐ | No ☐ |

Inspector's Comments:

Inspected by: Partial Approval (explain above): ☐ Final Approval: ☐ Rejected: ☐

Drawing: Include tap location from nearest down stream manhole, main size, main location, building location, lateral location, cleanout locations, upstream MH, and MH #, with distances to all structures and building. Also, indicate the direction "North".

Approved: 08-13-08
Original to Office Manager, Yellow Copy to C.S. Supervisor, Pink Copy to Contractor