

Rev: 2/11/2021

GENERAL NOTES  
FOR SANITARY SEWER CONSTRUCTION IN THE FOX METRO WATER  
RECLAMATION DISTRICT

- All sanitary sewer construction shall be performed in accordance with the "Fox Metro Water Reclamation District Sewer Use Ordinance No. 885", the "Standard Specifications for Water and Sewer Main Construction in Illinois", and "77 Illinois Administrative Code, part 890, Illinois Plumbing Code", latest edition.
- Final-approved set of plans and specifications must be kept on the job site. Failure to do this may result in a fine and/or be considered cause to stop the job.
- Contractors for all sanitary public sewer extension projects shall notify the District's Engineering Department twenty-four (24) hours prior to the start of work. Notification shall be done via telephone at (630) 301-6882, or by email at [submittals@foxmetro.org](mailto:submittals@foxmetro.org).
- For service connection inspections, call 630-301-6811 by 3:00 p.m. the day prior to the requested inspection time.
- To prevent any possible infiltration, inflow or debris from entering the downstream sanitary system, a factory-made plug shall be placed in the manhole by the contractor, as indicated on the final-approved plans. The placement of the plug(s) shall not interrupt the service of any user. This plug is to be removed only upon approval by the District or the city/village, and only after any construction drainage and/or debris has been properly removed. Under no circumstances is overlaid surface drainage allowed to drain into the sanitary system.
- All sanitary sewers shall be tested in accordance with Section 31-1.12 of the "Standard Specifications for Water and Sewer Main Construction in Illinois", including all manholes shall be vacuum tested (manhole testing will be in accordance with ASTM-1244-93 or in accordance with District requirements). In case of testing specification conflict, where deeper manholes are constructed, the more stringent requirement will apply.
- When connecting to an existing public sewer where a tee or wye is not provided, an "Inserta Tee" fitting must be installed. The minimum distance between fittings is four (4) feet center to center.

- Installation of a tee/wye on an existing main is prohibited. The angle of any new connection shall not exceed 1/1 or 45 degrees.

- Only "Infi-Shield", "Adaptor-Seal", and "Wrapid Seal" or approved equal chimney seals shall be installed on all manholes.

- Only PVC transition fittings shall be used in all new construction when joining PVC pipes which are damaged, disturbed during construction or have different outside diameters. Refer to Fox Metro "Manhole/Sewer Pipe Specifications" for information relating to repairs of mains damaged during construction.

- All existing sanitary interceptor (15" in diameter or greater) manhole frames located within any proposed development will be required to be adjusted to grade. Under no circumstances may the vertical height of the adjusting rings exceed eight (8) inches (two total). Extreme care should be taken when working near all sanitary manholes.

- Approved cast iron or concrete cleanout enclosures are required over the top of all cleanout covers in areas deemed necessary by the District.

- Ductile iron and cast iron pipe are not allowed for the use of gravity sewers in the District.

- Landscaping within any District easement is prohibited without review and subsequent plan approval.

- District easements shall be graded so that the ground surface does not exceed a six (6) percent gradient in all directions.

- All building drains/sewers shall be overhead or "hung" through the basement wall of any new building.

- All sanitary risers shall be required to be constructed to a depth of no greater than six (6) to seven (7) feet at the right of way. If a conflict arises between a sanitary sewer and a water line, IEPA water & sewer separation requirements take precedent.

- Whether any grease removal system is newly constructed or "retrofitted" to an existing building, a minimum of 1% slope and 3.5' of cover for pipes are required.

- Minimum design slopes shall be 1.00% for six (6) inch building sewers, .40% for eight (8) inch sewers, and .28% for ten (10) inch sewers with all other design slopes conforming to the requirements of the "Standard Specifications for Water and Sewer Main Construction in Illinois"

- with a "6" or "9" wide (min.) wrap meeting the requirements of ASTM C-877, "Type II or Type III.

- All sags, leaks, pipe defects, or other related issues with any newly televised sanitary sewer shall be repaired by the contractor at the discretion of the District. Approval of repairs will need to be confirmed in writing by the appropriate municipality, or re-televised by the District. At the District's discretion, connection permits may be withheld if confirmation of completed repairs cannot be obtained.

- Any contractor, who consistently fails to perform in accordance with the District's standards and specifications as provided on the plans, may be prohibited from performing work in the District. The District reserves the right to revoke or disallow any contractor's bond.

- The District shall televise all sewers eight (8) inches in diameter or greater. In order to access each manhole, the developer is responsible for providing a smooth, level area of sufficient width along the sanitary sewer system.

- During televising, if any newly constructed public sewer requires "heavy cleaning", additional charges may be incurred by the developer.

- Full-sized cleanouts are required on all building sewers

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FOX METRO WATER RECLAMATION DISTRICT  
MANHOLE / SEWER PIPE MATERIALS AND INSTALLATION SPECIFICATIONS

1. PIPE & FITTINGS

Pipe and fittings used in sanitary sewer construction shall be polyvinyl chloride (PVC) pipe. PVC pipe and fittings dated over one-year-old shall not be permitted for use. **No solvent-welding joints shall be allowed outside of the foundation wall of any building.**

The types of PVC pipe and fittings that shall be used in the District include:

- Poly Vinyl Chloride (PVC) Sewer Pipe and Fittings (ASTM – SDR series), conforming to ASTM Numbers D-1784 (cell classification), D-3034, D-3212 (joint spec), and F-477 (gaskets).
- Poly Vinyl Chloride (PVC) Pressure Rated Pipe and Fittings (ASTM – SDR series), conforming to ASTM Numbers D-1784 (cell classification), D-2241, D-3139 (joint spec), and F-477 (gaskets).
- Poly Vinyl Chloride (PVC) Pressure Rated Pipe and Fittings (AWWA DR-series) conforming to AWWA C-900 and ASTM Numbers D-1784 (cell classification), D-3139 (joint spec), F-477 & F-913 (gaskets).

All PVC plastic pipe and fittings shall have a cell classification of 12454 as defined in ASTM D-1784 and shall have minimum pipe stiffness as shown below in Table 1. The required Standard Dimension Ratio (SDR) or Dimension Ratio (DR) for PVC pipe and fittings shall be selected based upon the depth of cover, as also shown in the table below:

Depth of Cover	Pipe Diameter	Minimum Thickness	National Standard	Minimum Pipe Stiffness
3.5' - <15'	6" - 12"	SDR 26	ASTM D-3034	.115
3.5' - <20'	6" - 12"	SDR 21	ASTM D-2241	.224
3.5' - <30'	6" - 12"	DR-18	AWWA C-900	.364
3.5' - <30'	14"	DR-18	AWWA C-905	.364

Fittings in sizes through twelve (12) inches shall have elastomeric joints and minimum socket depths as specified in each respective section. Fittings above twelve (12) inches shall be molded or fabricated with elastomeric joints in accordance with ASTM standards D-1784 and D-3139 incorporating the manufacturer's standard pipe bells and gaskets. Gaskets shall conform to ASTM F-477 and ASTM F-913.

The District reserves the right to approve/reject all pipe and fittings on a case-by-case basis.

2. BEDDING, HAUNCHING, AND INITIAL BACKFILL

Bedding material shall be CA-7 Class 1A, as outlined in ASTM D-2321 and shall be certified by the manufacturer and approved by the District prior to installation, to have the following characteristics:

- Description: Shall be crushed stone or crushed gravel, as produced by mechanical means.
- Gradation: Shall meet the IDOT gradation of CA-7, Class 1A.
- Plasticity Index: Shall meet a plasticity index of 0 to 4 percent as determined by the method given in AASHTO T 90.
- Specific Gravity: Shall have a specific gravity (dry) of greater than 2.45.

LABORATORY TEST

The District reserves the right to require a contractor to submit certified copies of all reports of tests conducted by an independent laboratory before installation of PVC plastic pipe. Tests shall be conducted in accordance with Standard Method of Test for "External Loading Properties of Plastic Pipe by Parallel-Plate Loading" per ASTM D2412.

PIPE INSTALLATION AND FIELD TESTING

1. INSTALLATION

If the invert of any overhead sewer exceeds two (2) feet above the footing, plate compaction of the CA-7 Class 1A aggregate shall be required in twelve (12) inch lifts.

Trench widths should be stable or supported, provide a width sufficient, but no greater than necessary to ensure working room to properly and safely place haunching and other embedment materials. The minimum trench width shall be 32" plus the outside diameter of the pipe and the maximum trench width shall be 48" plus the outside diameter of the pipe.

Pipe size shall be a minimum of eight (8) inches for public sewers and six (6) inches for building sewers.

Pipes shall be laid in a manner which provides uniform support over the entire length. No blocking of any kind shall be used to adjust the pipe to grade except when embedment concrete is used. Bedding shall be a minimum of six (6) inches in depth. The bedding material shall be placed and worked in around pipe by hand to provide uniform support, then around and over the crown of the pipe by a minimum of twelve (12) inches. The granular embedment material shall be placed and consolidated along the full width of the trench. The contractor shall be required to install the pipe in such a manner that the diametric deflection of the pipe shall not exceed five (5) percent.

PVC transition fittings shall be used in all new construction when joining PVC pipes of different outside dimensions.

Service connections to new mains shall be with a tee/wye fitting with a six (6) inch branch and shall connect to the main at a (max.) forty-five (45) degree angle. Where no tee/wye exists, an Inserta Tee branch fitting shall be required.

Cast iron enclosures shall be required for all sanitary sewer service cleanouts located in any paved surface. Locations of said cleanouts and covers shall be limited to a spacing of no greater than one hundred (100) feet.

Either 4" X 6" rubber or non-shear couplings shall be used to connect the building drain to the building sewer. If using a rubber fitting, the four-inch pipe shall be inserted six (6) to twelve (12) inches inside of the six inch building sewer.

Whether any grease removal system (GRS) is newly constructed or retrofitted to an existing building, all District guidelines pertaining to minimum slope and cover depth for sanitary construction shall be strictly adhered to.

All building drains/sewers shall be overhead or "hung" through the wall of any basement.

Full-sized cleanouts shall be installed five (5) feet from the foundation wall.

2. TESTING

Before final acceptance, all public sewers shall be tested in accordance with Section 31-1.12 of the "Standard Specifications for Water and Sewer Main Construction in Illinois" (see item #2 under "Manhole Installation and Field Testing" below for vacuum testing).

All pipelines constructed of polyvinyl chloride (PVC) shall be subject to air exfiltration, deflection, vacuum and televising tests.

The deflection test shall be performed no sooner than thirty (30) days after the backfilling operation and shall consist of measuring the pipe for vertical ring deflection. Maximum ring deflection of the pipeline under load shall be limited to five (5) percent of the internal pipe diameter. All pipes exceeding this deflection shall be considered to have reached the limit of its serviceability and shall be re-laid or replaced by the contractor at their sole expense.

The cost of all deflection testing shall be borne by the contractor and shall be accomplished by pulling a mandrel, sphere, or pin-type "go / no go" device, with a diameter equal to ninety-five (95) percent of the un-deflected inside diameter of the flexible pipe through the pipeline. Pipe shall be constructed so that the internal diameter does not decrease by more than five (5) percent.

All sanitary sewer (public or private) having a diameter of eight (8) inches or greater shall be televised by the District. Said televising work is scheduled once all sanitary testing (air & vacuum) has been received by the District. Any defects in said sewer shall be excavated, then repaired, at the contractor's or developer's sole expense. Caution should be taken before constructing roads, curbs, sidewalks or any other infrastructure, whether it is above or below the ground surface. It is the responsibility of the utility contractor and the developer to contact the District prior to installing any of these utilities or infrastructure. Repairs to defective sanitary sewers shall be performed regardless of the status of other construction or extraneous expenses.

MANHOLE INSTALLATION AND FIELD TESTING

1. INSTALLATION

All manhole castings, adjusting rings and manhole sections shall be set in butyl rope. The inside joints of manhole sections, adjusting rings, and frame shall not be mortared. However, the area between the pipe and flow channel shall be filled with cement mortar to provide a flush smooth surface.

Each manhole cone and barrel section joint shall also be externally sealed with a "6" or "9" wide (min.) sealing band of rubber and mastic (see "REPAIRS" below). The band shall have an outer layer of rubber or polyethylene with an under layer of rubberized mastic (with a protective film), meeting the requirements of ASTM C-877, "Type II or Type III.

Pipe connections to all manholes through openings (cast or core-drilled) shall be provided with a flexible rubber watertight connector conforming to ASTM C-923, "Standard Specifications for Resilient Connectors between Reinforced Concrete Manhole Structures and Pipes".

A maximum of eight (8) inches of adjusting rings (2 total rings) is allowed. The frame, chimney, and top "lip" of the cone section shall be required to be sealed with a chimney seal.

Only "Adaptor-Seal", "Infi-Shield", Canusa (Wrapid Seal), or an approved equal will be allowed. Do not use unapproved seals.

When a new manhole is approved to be constructed on an existing public sewer, only Cascade brand (CR style), or approved equal, stainless steel repair clamps shall be installed. Only repair clamps conforming to ANSINSF-61 shall be allowed. This work shall be inspected by the District.

2. TESTING

Each new manhole shall be vacuum tested after manhole is at finished grade. The manhole frame, adjusting rings and chimney seals shall be in place when testing. All lift holes shall be plugged with a non-shrinking grout. No grout shall be placed in the horizontal joints before, after or during testing in order to achieve a passing test result. All pipes entering the manhole shall be plugged, taking care to securely brace the plugs from being drawn into the manhole. A vacuum of ten (10) inches of mercury shall be drawn and the vacuum pump shut off. With the valves closed, the time shall be measured for the vacuum to drop to nine (9) inches of mercury (Hg) for the following time periods for each size manhole:

- \*Forty-eight (48) inches Diameter - sixty (60) seconds
- \*Sixty (60) inches Diameter - seventy-five (75) seconds
- \*Seventy-two (72) inches Diameter - ninety (90) seconds

\*Manhole testing will be in accordance with ASTM-1244-93 or in accordance with District requirements. In case of conflict, the more stringent requirement will apply (e.g. where deeper manholes are constructed).

The contractor shall provide all material and equipment necessary for testing. Should the manhole fail the vacuum test, the structure shall be disassembled to a point that said leak can be repaired with butyl rope. After the repair is complete, the manhole shall be re-tested until a satisfactory result is obtained.

REPAIRS & REHABILITATION OF EXISTING PIPES AND MANHOLES

1. PIPES

Pipe connections of dissimilar materials where no hub exists shall be made with a non-shear coupling.

Existing non-PVC building sewers or "stubs" may not be used in connection with new buildings where a District connection permit is requested. In such cases, said building sewer or "stub" will either need to be removed to within one foot (1') of the public sewer and then replaced with appropriate PVC material. Any existing sanitary sewer main or service, which is required to be lined, shall be repaired with a cured-in-place pipe (CIPP) meeting the requirements of ASTM F1216, D5813, D790 and D2690. Said CIPP shall be installed using the inversion method only. Hot water or steam shall be used to cure all liners.

Building sewers shall be permanently abandoned using one of following two methods.

- Removed to within one (1) foot of the public sewer and plugged using a mechanical plug and mortar. This is the preferred method. If it is not feasible, see item two below.
- The building sewer connection shall be sealed within the public sewer with a four (4) foot minimum length cured in place pipe (C.I.P.P.) liner with hydrophilic gaskets.

Where a newly constructed public sewer needs to be repaired due to damage having occurred during construction, Cascade brand (CR style), or approved equal, stainless steel repair clamps shall be required. Only repair clamps conforming to ANSINSF-61 shall be allowed. When the damage occurs within thirty (30) feet of a manhole, the contractor shall remove and replace the damaged main from the nearest joint to the manhole.

2. MANHOLES

Each manhole, which has been disturbed in any way, including being raised or lowered, should be cleaned and dried before re-sealing. Each cone and barrel section joint shall require a double-layer of butyl rope and also be externally sealed with a "6" or "9" wide (min.) sealing band of rubber and mastic. The band shall have an outer layer of rubber or polyethylene with an under layer of rubberized mastic (with a protective film), meeting the requirements of ASTM C-877, "Type II or Type III.

A maximum of eight (8) inches of adjusting rings (2 total rings) is allowed in any repair. The frame and chimney of the cone section shall be required to be sealed with a chimney seal. Only "Adaptor-Seal", "Infi-Shield", Canusa (Wrapid Seal), or approved equal will be allowed.

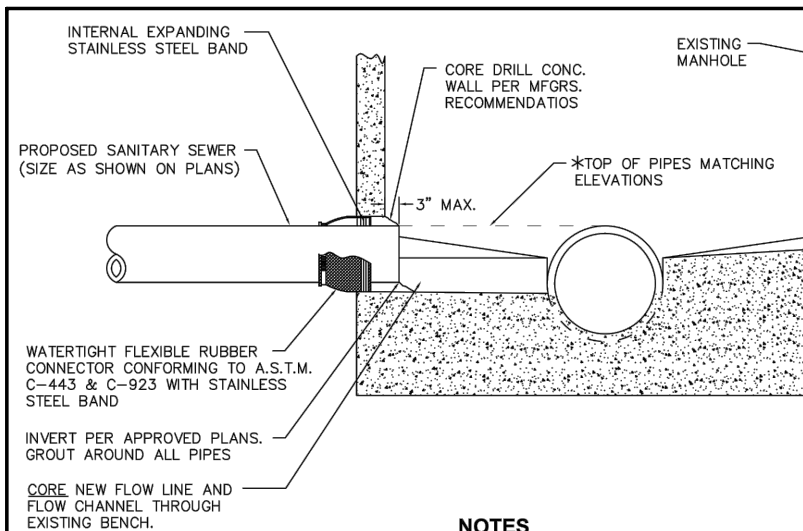
CONTRACTOR NOTICE  
Fox Metro Water Reclamation District  
IMPORTANT - PLEASE READ!

The following list represents costly problems or violations that commonly occur during or after construction. Our goal is to make everyone aware of these problems and hopefully reduce unnecessary delays, expenses, and fines.

In order to perform new construction or repair work on any private sanitary or water service, the following must be completed before work may commence:

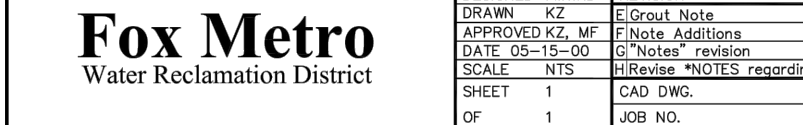
- A \$25,000 license & permit bond made out to "Fox Metro Water Reclamation District" must be received and approved for new construction or repair work. Please instruct your insurance company to call out the work to be performed as "sanitary sewer construction".
- A District permit for new construction or a repair permit needs to be issued.
- An inspection is required by the District. To save a \$50 same day inspection fee, please provide twenty-four (24) hour notice.
- All public sanitary sewer construction must have an IEPA permit and plan approval letter on file at the District prior to commencing. Please provide our office with 48-hour notification to verify this before starting construction.
- To prevent unnecessary flow or discharge into the existing sanitary system, all new sanitary construction must be securely plugged and maintained by the contractor. The plug(s) may only be removed after permission has been obtained from the municipality or from the District's engineering department. All construction drainage must be properly removed from the new sanitary sewer system.
- All newly proposed private building sewer construction must have a connection permit from the District. In addition, this work shall be inspected by the District. Please call (630) 301-6811 by 3:00 pm the day prior to the requested inspection time. No building sewers shall be installed until all proposed public sewers have been tested and approved by the District and a final recorded subdivision plan is submitted.
- All domestic water service installations (except for the Village of Oswego and the United City of Yorkville) are to be inspected by the District. Any final connection(s) to any building, made by any plumber or excavator, shall also be inspected by the District. **Do not backfill this connection before this inspection is completed.**
- All sanitary manholes are to be sealed (exterior of chimney & barrels) and vacuum tested. Any disruption of these manholes will break the seal(s), requiring a costly resealing and retesting process. Please stay clear of all manholes.

For questions regarding permitting and construction, call the District's engineering department at (630) 301-6882. For questions regarding inspections or to report violations, open manholes, or other issues please call (630) 301-6811.



NOTES  
\* TO ESTABLISH THE INVERT OF THE NEW PIPE(S) WHERE THE EXISTING SEWER IS 14" OR LESS, MATCH THE ELEVATION OF THE TOP OF THE INCOMING PIPE TO THE TOP OF THE EXISTING DOWNSTREAM PIPE. FOR EXISTING SEWERS GREATER THAN OR EQUAL TO 15", SEE APPROVED PLANS.  
SERVICES: NO DROP CONNECTIONS ALLOWED. CORE AT THE MANHOLE BOTTOM PER ABOVE WITH A SINGLE CONNECTION. MEN TO ESTABLISH UPSTREAM LINE/GRADE. USE TWO 45 DEGREE FITTINGS.

PIPE TO EXISTING MANHOLE CONNECTION



SANITARY SERVICE CONNECTION

DESIGNED: JMW/MD  
DRAWN: JZ  
APPROVED: JZ  
DATE: 08-12-10  
SHEET: 1  
OF: 1

REVISION  
NO. 1  
DATE: 08-12-10  
BY: JZ  
DESCRIPTION: REVISED PER DISTRICT COMMENTS

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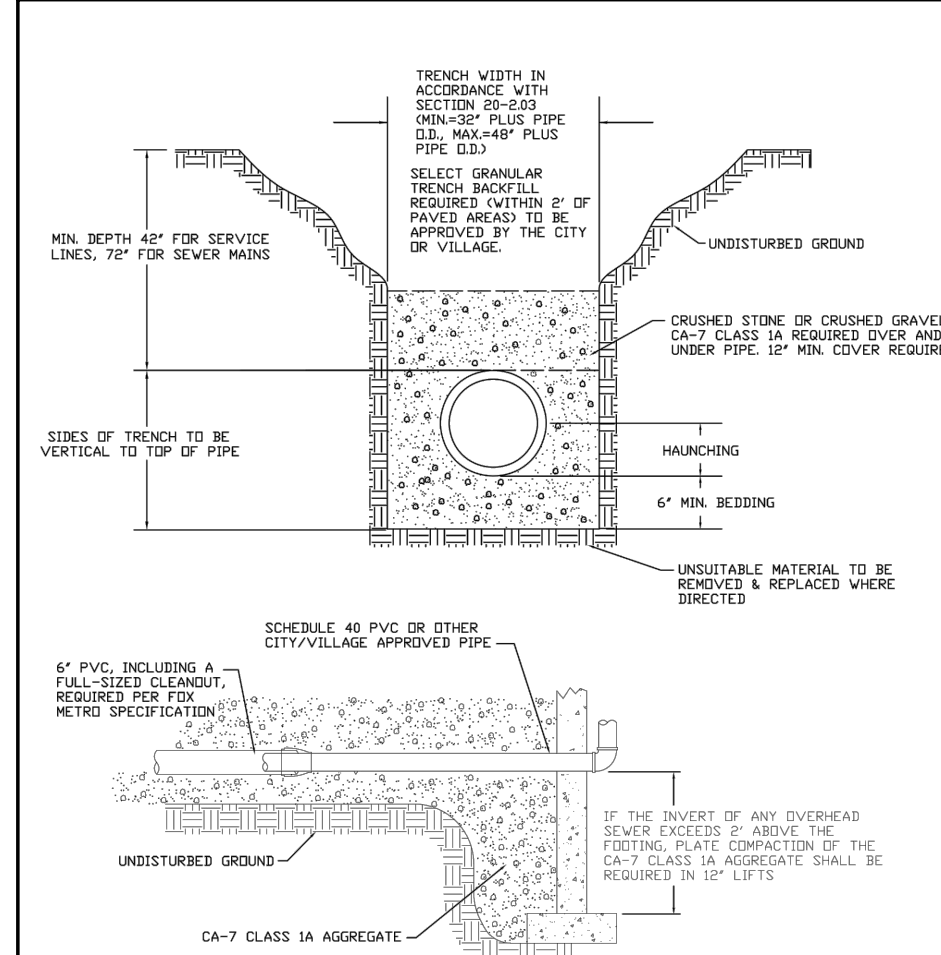
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TRENCH DETAIL FOR SANITARY SERVICES & MAINS

DESIGNED: JMW/MD  
DRAWN: JZ  
APPROVED: JZ  
DATE: 08-12-10  
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REVISION  
NO. 1  
DATE: 08-12-10  
BY: JZ  
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