



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

June 1, 2026

SUBJECT: FAP Route 611 (IL 81)
Project STP-9NIE(950)
Section 104R
Henry County
Contract No. 64L94
Item No. 45, June 12, 2026 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised the Schedule of Prices.
2. Revised the Recurring Special Provisions check sheet.
3. Revised page iii of the Table of Contents to the Special Provisions.
4. Added page iv to the Table of Contents to the Special Provisions.
5. Added pages 135-155 to the Special Provisions.
6. Revised sheets 1-2, 6-7, 9-13, 16-18, 41-48, 58, 145-146, 149-151, 186, 188-199, 202, 204-205, 207-208, 210-211, 213, 221, 223, and 295-303 of the Plans.
7. Added sheets 19A-C, 58A-D, 220A-Z, and 299A to the Plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any changes to the Schedule of Prices in their bid.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Jack A. Elston'.

Jack A. Elston, P.E.
Bureau Chief, Design and Environment

RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

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WATER MAIN, 4"

WATER MAIN, 6"

WATER MAIN, 8"

This work shall be done in accordance with Sections 40 and 41 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

Watermain on this project shall be PVC pipe unless otherwise shown on the Drawings. The PVC pipe shall meet AWWA C900 and shall be DR18 with push-on joints with rubber gaskets meeting ASTM Specification F477. The Contractor shall submit shop drawings, including the manufacturer's literature, for all sizes of watermain being provided.

Restraint for AWWA C900 PVC Pipe shall consist of the following: The restraint shall be manufactured of ductile iron conforming to ASTM A536. The combination of the restraint(s) and fasteners shall have a pressure rating to the full pressure rating of the pipe. The restraint shall have a two to one safety factor. A split serrated ring shall be used to grip the plain-end of the pipe. A split serrated ring shall also be used to grip the barrel of the pipe behind the bell, and a sufficient number of bolts shall be used to connect the restraint rings. Restrained joints shall be megalug or star pipe products.

Watermain installation shall be done in accordance with the recommendations of the manufacturer of the watermain pipe and in accordance with the Standard Specifications for Water and Sewer Construction in Illinois, latest edition. Installation of flexible thermoplastic watermain pipe (PVC pipe) shall be done in accordance with Sections 20 of the Specifications for Water and Sewer Construction in Illinois, latest edition. Minimum depth of cover over watermains shall be 4 feet.

Prior to the start of construction, the Contractor shall establish the depth of the existing water lines and other utility lines that will be crossed with the proposed water main. Proposed water lines at the points of crossing shall have their depth adjusted to provide clearance and no interruption of existing utilities. The cost of the establishment of the depth of the existing water lines and utilities, including exploratory excavations, shall be included in this pay item.

All excavation, dewatering, and soil/construction debris removal and disposal necessary to install the proposed watermain shall be included in this pay item.

The embedding the watermain (4" below the bottom of the watermain to 12" above the top of the watermain) during construction shall be included in this pay item. Granular cradle shall be used for all watermain under this project. Watermain embedment (Granular Cradle) shall meet gradation CA-6 or CA-7. Costs for granular cradle installed as specified shall be included in the contract unit price bid per lineal foot for WATER MAIN, 4", WATER MAIN, 6", and WATER MAIN, 8". No additional compensation for Granular Cradle will be made. The Contractor shall submit material certifications for the granular cradle.

Added June 1, 2026

The contractor shall carefully place granular material and compact evenly on both sides of the pipe from 4" below the bottom of the pipe to 12" above the pipe. Contractor shall spade or shovel slice material under the pipe haunches. Care should be taken during placement and compaction to not damage the pipe.

All PVC watermain shall be installed with a parallel 12-gauge copper wire (thnn, soft drawn) along side the pipe. The wire shall be electrically continuous. Only waterproof splices shall be permitted. Wire shall terminate at the inside top of each valve box.

The Contractor shall perform flushing, testing, and disinfection of all of the proposed watermains in this project in accordance with the provisions of AWWA Standard C651-14.

Testing pressure shall be a minimum of 150 psi. Costs associated with pressure testing of all newly installed mains shall be incidental to the contract unit price of WATER MAIN, 4", WATER MAIN, 6", and WATER MAIN, 8". Water required for flushing and testing shall be furnished by the City at no charge to the Contractor, unless bacteriological samples do not pass the first time. Water will be charged at regular City rates for any quantities required for repetitive flushing and testing as a result of an unsatisfactory bacterial test. Costs associated with flushing and disinfecting shall be incidental to the contract unit price for the watermain.

The water main shall be disinfected with liquid chlorine or a chlorine-bearing compound in water in accordance with Section 41-2.14 of the Standard Specifications for Water and Sewer Construction in Illinois.

Measurement and Payment for work included in this item shall be made at the contract unit price per linear foot for WATER MAIN, 4", WATER MAIN, 6", and WATER MAIN, 8". The contract unit price shall include furnishing all labor, equipment, and materials which are necessary for the installation and testing of the watermain. Excavation, Disposal, and Pipe Embedment (Granular Cradle) shall be included in the cost of the contract unit price of the watermain.

Added June 1, 2026

DUCTILE IRON WATER MAIN FITTINGS, 4", 11.25 DEGREE BEND

DUCTILE IRON WATER MAIN FITTINGS, 4", 45 DEGREE BEND

DUCTILE IRON WATER MAIN FITTINGS, 6", 11.25 DEGREE BEND

DUCTILE IRON WATER MAIN FITTINGS, 6", 22.5 DEGREE BEND

DUCTILE IRON WATER MAIN FITTINGS, 6", 45 DEGREE BEND

DUCTILE IRON WATER MAIN FITTINGS, 8", 45 DEGREE BEND

DUCTILE IRON WATER MAIN FITTINGS, 8", 90 DEGREE BEND

DUCTILE IRON WATER MAIN REDUCER, 8" X 6"

DUCTILE IRON WATER MAIN TEE, 4" X 4"

DUCTILE IRON WATER MAIN TEE, 6" X 6"

DUCTILE IRON WATER MAIN TEE, 8" X 4"

DUCTILE IRON WATER MAIN TEE, 8" X 6"

This work shall comply with Sections 40 and 41 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

Fittings shall conform to AWWA Standard C153/A21.53-19. All fittings shall be flanged, restrained retainer gland, or restrained joint and shall be cement-lined in accordance with AWWA Specification C104/A21.4-16. A bituminous seal coating shall be applied to all interior and exterior surfaces according to AWWA C151. Mechanical joints for fittings shall conform to AWWA C111 and be 250 psi pressure-rated. Fittings shall be manufactured by McWane, U.S. Pipe Company, American Cast Iron Pipe Company, Tyler, or Griffin Pipe Company. All mechanical joints shall be constructed with Cor-Blue T-Bolts (NSS) by Birmingham Fastener or R-Blue by Romac Industries.

All fittings which deflect the flow 22.5° or greater shall have a thrust block. Thrust blocks shall be concrete block of standard dimensions.

All mechanical joint fittings shall be encased in a polyethylene sleeve for 3 meters (10 feet) on each side of the valve or fitting. Sleeves shall be linear low-density polyethylene, 8 mil thickness, Class C (black) conforming to the requirements of AWWA C105 / ANSI A21.5.

The Contractor shall submit shop drawings, including the manufacturer's literature, for all types and sizes of fittings being provided.

Fittings installation shall be done in accordance with the recommendations of the manufacturer of the ductile iron fitting and in accordance with AWWA C600-17 Installation of Ductile-Iron Mains and their Appurtenances.

Added June 1, 2026

Fittings specifically required for connections to existing mains that are not shown on the plans shall be included in the contract unit price per each for NON-PRESSURE CONNECTION TO EXISTING WATER MAIN and PRESSURE CONNECTION TO EXISTING WATER MAIN.

Payment will be made at the contract unit price each for DUCTILE IRON WATER MAIN FITTINGS, 4", 11.25 DEGREE BEND, DUCTILE IRON WATER MAIN FITTINGS, 4", 45 DEGREE BEND, DUCTILE IRON WATER MAIN FITTINGS, 6", 11.25 DEGREE BEND, DUCTILE IRON WATER MAIN FITTINGS, 6", 22.5 DEGREE BEND, DUCTILE IRON WATER MAIN FITTINGS, 6", 45 DEGREE BEND, DUCTILE IRON WATER MAIN FITTINGS, 8", 45 DEGREE BEND, DUCTILE IRON WATER MAIN FITTINGS, 8", 90 DEGREE BEND, DUCTILE IRON WATER MAIN REDUCER, 8" X 6", DUCTILE IRON WATER MAIN TEE, 4" X 4", DUCTILE IRON WATER MAIN TEE, 6" X 6", DUCTILE IRON WATER MAIN TEE, 8" X 4", and DUCTILE IRON WATER MAIN TEE, 8" X 6, which shall include all labor, equipment, and materials necessary to complete these items.

CONCRETE THRUST BLOCKS

Thrust blocking shall be provided as designed in Section 41 of the Standard Specifications for Water and Sewer Construction in Illinois, Latest Edition and shall be accomplished using a joint restraint system consisting of mechanical joint restraints designed for the type of piping on which it will be installed. All tees, plugs, bends, and fittings which deflect the flow 22.5° or greater shall have a thrust block. Thrust blocks shall be concrete block of standard dimensions. All fittings shall be separated from the concrete thrust blocking with a layer of 8 mil. polyethylene. Concrete thrust blocking shall be constructed according to the plans, standard details, and specifications herein.

This work shall include all labor, equipment, and materials necessary to install concrete thrust blocks at all applicable ductile iron fittings and will be paid for at the contract unit price per each for CONCRETE THRUST BLOCKS.

WATER MAIN CASING PIPE

This work shall be done in accordance with Sections 40 and 41 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

At the locations shown on the drawings where the proposed watermain crosses above an existing sewer with less than 18" separation or when a watermain crosses below an existing sewer with greater than 18" separation, the watermain shall be placed in casing pipe using open cut construction methods in accordance with the details on the plans and the standard specifications.

The casing pipe shall be PVC, water main quality pipe. The inside diameter of the casing pipe shall be at least 2 inches greater than the largest outside diameter of the watermain pipe to be installed in it.

Watermain pipe shall be protected from damage while being installed in the casing. The pipe shall be installed inside the casing pipe utilizing non-corrosive casing spacers acceptable to the Engineer.

Added June 1, 2026

After the watermain is installed in the casing, the ends of the casing pipe shall be fitted with an end seal securely fastened with SST clamps. The end seal shall be 1/8" thick (min) rubber, Cascade Waterworks Manufacturing model CCES or Advance Products & Systems.

The contractor shall submit shop drawings, including the manufacturers literature, for all casing pipe being installed.

Measurement of the watermain in casing pipe shall be equal to the actual length of casing installed, but shall not be greater than the length shown on the plans unless the Engineer specifically requires a longer casing during construction.

Payment for casing pipe for sewer crossings shall be made at the contract unit price per linear foot for WATER MAIN CASING PIPE. The contract unit price shall include furnishing all labor, equipment, and materials, including the casing pipe, installation of the watermain in the casing pipe, sealing of the casing, and other operations involved with the installation of the pipe in the casing.

FIRE HYDRANT ASSEMBLY COMPLETE

FIRE HYDRANT AND VALVE (SPECIAL)

This work shall comply with Section 45 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

The fire hydrants shall conform to the latest version of AWWA C502-18 for dry barrel fire hydrants for ordinary water works service and have a traffic flange and a replaceable unit above the ground line for minimizing repairs due to traffic damage.

Hydrants shall be of the dry top design with O-ring seals to ensure that the operating threads will be protected from water entry. The dry top design shall include a factory lubricated operating mechanism which allows a supplemental lubricant to be added in the field without the removal of the top section.

Hydrants shall have a "weather shield" or "weather cap" to protect the clearance area between the top casting and the operating nut from moisture and possible frost damage.

The operating nut and nozzle cap nuts are to be pentagonal in shape and measure 12 inches from the point to the opposite flat at the base of the nut. Caps shall be provided with rubber gaskets and chains.

All 6" hydrants (FIRE HYDRANT ASSEMBLY COMPLETE) shall have a minimum 5-1/4" internal valve with two 2-1/2" hose nozzles with national standard threads and one 4-1/2" pumper nozzle and nozzle caps chained to the hydrant barrel. Hydrant nozzle section shall be capable of rotation through 360 degrees with respect to the standpipe. The allowable distance between the centerline of the lowest nozzle and the ground line shall be not less than 16 inches and not greater than 22 inches.

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All 4" hydrants (FIRE HYDRANT AND VALVE (SPECIAL)) shall have a minimum 4-1/2" internal valve with two 2-1/2" hose nozzles with national standard threads and nozzle caps chained to the hydrant barrel. Hydrant nozzle section shall be capable of rotation through 360 degrees with respect to the standpipe. The allowable distance between the centerline of the lowest nozzle and the ground line shall be not less than 16 inches and not greater than 22 inches

Hydrants shall also have two automatic drain valves and outlets to drain the hydrant's barrel when the main valve is closed. The port and seat of the main valve are to be bronze. The bronze valve seat shall be threaded into a bronze drain ring or shoe bushing to prevent electrolysis between these components. The drain channel shall be all bronze or lined with naval brass.

The shoe of the hydrant shall be provided with a standard flange connection 6 inches in size for FIRE HYDRANT ASSEMBLY COMPLETE and 4 inches in size for FIRE HYDRANT AND VALVE (SPECIAL). The internal surface of the shoe and lower valve assembly shall be coated with a factory applied epoxy coating with a minimum dry film thickness of 4 mm.

Hydrants shall have permanent markings cast into the upper barrel assembly, identifying the manufacturer, name and size of the main valve opening, and year of manufacture. Hydrants shall have an identification mark indicating direction of opening, shall be "open left", and close with pressure. Hydrants shall be painted to match existing hydrants in the City.

Hydrants shall be designed to permit the use of extension sections and allow all parts to be removable from the ground level without requiring excavation of the hydrant.

Fire hydrants shall have a 6" restrained joint opening for FIRE HYDRANT ASSEMBLY COMPLETE and 4" restrained joint opening for FIRE HYDRANT VALVE (SPECIAL).

Mechanical joint connections shall be designed to match the type of joint installed on the pipe.

The Contractor shall determine the depth of bury necessary prior to ordering the hydrant. Because of variations in ground elevation, the depth of bury for hydrants can be different from the minimum depth of cover for the watermain.

The fire hydrants shall be manufactured by Waterous and include a 2-way stub for 4" fire hydrants branching off a 4" watermain or a 3-way stub for 6" fire hydrants branching off a 6" watermain. The Contractor shall submit shop drawings, including the manufacturer's literature, for each type and size of fire hydrant being provided. Hydrants shall have a standard 250 psig working water pressure and 500 psig test pressure and be certified as such by the manufacturer.

Auxiliary valve shall meet the requirements of GATE VALVE, 6" WITH VAULT BOX for FIRE HYDRANT ASSEMBLY COMPLETE and GATE VALVE, 4" WITH VAULT BOX for FIRE HYDRANT AND VALVE (SPECIAL). Hydrant lead shall meet the requirements of WATER MAIN, 6" for FIRE HYDRANT ASSEMBLY COMPLETE and WATER MAIN, 4" for FIRE HYDRANT AND VALVE (SPECIAL).

Added June 1, 2026

Each hydrant shall stand plumb and shall rest on a precast solid concrete block base. Under and around the drip of each hydrant shall be placed with a minimum of 4 cubic feet of clean aggregate (CA-7) extending above the drain holes. All fittings and valves in connection with the fire hydrant shall be the anchoring type. No hydrant shall be placed closer than 2-1/2 feet from the back of curb or edge of pavement to the centerline of the hydrant.

Fire Hydrant installation shall be done in accordance with the recommendations of the manufacturer of the fire hydrant and in accordance with the Standard Specifications. Hydrant testing shall be according to AWWA C600 and AWWA Manual M-17.

Payment for furnishing and installing a fire hydrant, drainage stone, and thrust block shall be at the contract unit price each for FIRE HYDRANT ASSEMBLY COMPLETE and FIRE HYDRANT AND VALVE (SPECIAL). The contract unit price shall include furnishing all labor, equipment, and materials which are necessary for the installation of the fire hydrant, hydrant lead, and auxiliary valve.

FIRE HYDRANTS TO BE REMOVED

This work shall consist of removing a fire hydrant from the water main, along with the fire hydrant lead piping and any thrust blocking. Work shall also include excavation and backfilling. Fire hydrants removed will not be reinstalled on this project. Fire hydrant auxiliary valve and valve box shall be included in the REMOVE EXISTING WATER VALVE pay item. Contractor shall coordinate with the Owner to deliver all yellow-painted removed hydrants to the City's Public Works Department. Delivery shall be included in the cost of this item. Contractor shall dispose of all non-yellow painted removed hydrants. Existing fire hydrants shall be removed and disposed of according to IDOT Article 202.03.

Payment for removing fire hydrants shall be at the contract unit price each for FIRE HYDRANTS TO BE REMOVED. The contract unit price shall include furnishing all labor, equipment, and materials which are necessary for the removal of all fire hydrants as shown on the plans, including hydrant lead piping and any thrust blocking.

Added June 1, 2026

GATE VALVE 4" WITH VAULT BOX

GATE VALVE AND BOX, 6"

GATE VALVE AND BOX, 8"

This work shall comply with Section 42 and 44 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

Gate valves shall be suitable for buried use and shall be resilient-seated type with non-rising stem, mechanical joints and NRS type rated for 250 p.s.i.g. cold water working pressure. Valves shall open left and provided with 2" square opening nut with the word OPEN and an arrow cast in the metal to indicate direction to open.

Valves shall conform to AWWA C509 or AWWA C515 and be approved by ULFM. Gate valves shall be manufactured by Clow or Mueller.

The wedge shall be of cast iron completely encapsulated in rubber. The sealing rubber shall be permanently bonded to the cast iron wedge to meet ASTM tests for rubber metal bond ASTM D429.

All fittings and valves shall be mechanical joint type. All valves and mechanical joint fittings shall be encased in a polyethylene sleeve for 3 meters (10 feet) on each side of the valve or fitting. Sleeves shall be linear low-density polyethylene, 8 mil thickness, Class C (black) conforming to the requirements of AWWA C105 / ANSI A21.5.

Valve boxes shall be two pieces, cast iron, and screw-type adjustable boxes with a cover marked WATER. Box shall have a 5-1/4" inside diameter. Valve boxes shall be Tyler Series 6860 with #6 base, Tyler Union 6850 with rubber boot between valve and box base, or East Jordan Iron Works 8550.

The Contractor shall submit shop drawings, including the manufacturer's literature, for each valve being provided, and for all valve boxes.

Valve installation shall be done in accordance with the recommendations of the manufacturer of the ductile iron fitting and in accordance with the Standard Specifications.

Payment for work included in this item shall be at the contract unit price each for GATE VALVE 4" WITH VAULT BOX, GATE VALVE AND BOX, 6" and GATE VALVE AND BOX, 8". The contract unit price shall include furnishing all labor, equipment, and materials, which are necessary for the installation of the gate valve and box.

Added June 1, 2026

REMOVE EXISTING WATER VALVE

This work shall consist of removing existing water valves, including fire hydrant auxiliary valves, as shown on the plans. Contractor shall dispose of all removed valves. Existing water valves shall be removed and disposed of according to IDOT Article 202.03. Removal of existing water valves shall not be completed until the proposed watermain is tested, sanitized, and in operation. Additionally, all water services should be transferred to the new main and all tie-ins should be made to the existing water main prior to removing water valves.

Payment for work included in this item shall be at the contract unit price each for REMOVE EXISTING WATER VALVE.

NON-PRESSURE CONNECTION TO EXISTING WATER MAIN

This work shall be done in accordance with Sections 40 and 41 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

This work shall consist of a non-pressure connection to the existing watermain and any necessary special fittings not indicated on the drawings but required for installation. The Contractor shall be responsible for determining the type and outside diameter of the existing watermain pipe to obtain the proper fittings. Connections to existing mains shall have no visible leakage.

For each segment of watermain being installed, the main shall be initially connected to the existing main as indicated on the Plans. Connection points shall be valved and shall be the source of water for flushing, chlorination, and testing.

Where short lengths of main must be returned to service immediately after installation, all pipe and fittings shall be swabbed with chlorine solution prior to installation.

If the connection to an existing water main requires a shutdown of the existing main, the Contractor shall notify all users of the affected main a minimum 48 hours ahead of the shutdown. The Contractor shall re-chlorinate that portion of the existing water main which is shut down before it is put back into service. The Contractor shall provide the necessary blocking or restraining of the existing main when they make the new connection.

Payment for the work associated with connecting to existing mains shall be made at the contract unit price each for NON-PRESSURE CONNECTION TO EXISTING WATER MAIN. Payment shall be made once at each location, regardless of the number of pipes to be connected at each location. Payment shall include removal of existing pipe and fittings, and cleaning of existing pipe and fittings prior to connection. Payment shall include relocation of existing gate valves and boxes, if required.

Added June 1, 2026

PRESSURE CONNECTION TO EXISTING WATERMAIN

This work shall comply with Section 46 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

The connection point shall be valved and shall be the source of water for flushing, testing, and chlorination. The proposed main shall be kept isolated from the existing main until the proposed main has been tested and passed for both leakage and bacteriological contamination. Under pressure connection shall consist of installing a tee (tapping sleeve) and gate valve with the existing main pressurized, which shall be performed by the Contractor.

Hot tapping shall result in a hole in the existing pipe, which has a diameter at least 90% of the inside diameter of the new pipe being connected. Contractor shall repair any damage to the existing pipe caused by hot tapping.

The Contractor shall be responsible for purchasing the tapping sleeves and tapping valve.

Tapping valves shall conform to AWWA C500 and the latest revision of AWWA C509, and be approved by ULFM. Tapping valve shall be full ported gate valve which will allow the shell cutter to pass through it to affect the pressure tap.

The tapping fittings (sleeve, saddle, and tapping tee) shall be two- or three-piece bolted fittings, split to allow placement over the main to be pressure tapped. Tapping sleeves shall be stainless steel with stainless steel bolts. Tapping sleeves for 8-inch and smaller watermain shall be Cascade CST-SL or Ford FAST.

Each valve shall have the manufacturer's name, pressure rating, and year of manufacture cast on the body. Prior to shipment from the factory, each valve shall be tested by hydrostatic pressure equal to AWWA requirements (twice the specified working pressure).

The Contractor shall submit shop drawings, including manufacturer's literature for all tapping fittings and valves being provided.

Tapping tee and valves shall be installed by the Contractor in accordance with the recommendations of the manufacturer of the tapping materials and in accordance with the Standard Specifications for Water and Sewer Construction in Illinois, latest edition. The Contractor shall be responsible for determining the type and outside diameter of the existing watermain pipe to obtain the proper fittings. Connections to existing mains shall have no visible leakage. Where valves, fittings, or short lengths of main must be returned to service immediately after installation, all pipe and fittings shall be swabbed with chlorine solution prior to installation.

Payment for work included in this item shall be at the contract unit price each for PRESSURE CONNECTION TO EXISTING WATERMAIN including tapping sleeve and tapping valve.

Added June 1, 2026

WATER SERVICE CONNECTION, 1"

WATER SERVICE LINE (SPECIAL)

This work shall comply with Sections 40, 41, and 46 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

Services which are connected to the existing main which is to be abandoned or removed shall be reconnected to the proposed watermain after the proposed main has been satisfactorily tested bacteriologically and placed in service.

The Contractor shall notify the Owner at least 3 days in advance of the day that the services will be reconnected so that the water customers can be notified by the Owner in advance of a temporary loss of service.

The Contractor shall shut-off each existing service at the corporation stop or meter pit on the main to be abandoned/removed. A new service line shall be installed and connected to the existing water service within the existing meter pit or at the existing curb stop. All existing curb stops shall be replaced.

All materials that come in contact with potable water shall comply with the requirements of NSF 61 and NSF 372. Contractor shall submit documentation that all products which come in contact with potable water comply with NSF 61 and NSF 372 standards.

PVC watermains shall have saddle clamps and corporation stops for service connections. Service saddles shall be double strap and made of bronze. Corporation stop shall be brass. Saddle tap and corporation stop shall be the same size as existing service line.

Water service lines shall be 1" diameter Polyethylene (PE) tubing conforming to the requirements of ASTM D3350 and ASTM D2737, pressure class of 200 psi minimum rating, with a minimum Dimension Ratio of SDR9, NSF listed, with an outside diameter equal to copper tubing in size. To enable future location of the buried PE tubing, an insulated copper wire, minimum #12 gauge shall be installed above the PE tubing in the same trench. The copper wire shall be electrically continuous between the curb box and the meter and terminate with an 18-inch whip in the curb box. PE tubing shall be placed in a bed of sand three inches deep, and covered with a minimum depth of six inches of sand. Said sand shall be free of rocks or other objects which could cut, deform, or otherwise cause physical damage to the PE tubing. All joints made in PE tubing shall be compression fittings with stainless steel stiffeners.

The length of PE tubing, between the water main and the curb stop valve, and between the curb stop valve and the water meter shall be single pieces of pipe or tubing with no joints or unions installed therein. For new, or replacement service installations, an exception to this requirement is allowed only if the distances involved are larger than the manufacturer's normally available lengths of continuous pipe.

Adapters to connect proposed service lines to existing service lines shall be brass or bronze body.

Added June 1, 2026

Water service valves shall be the same nominal size as the service line. Valves shall be all brass and the round way type with compression connections.

Unless noted otherwise on the Plans, the proposed water service line shall connect to the existing service line at a point nearest the existing right-of-way limits. Existing service pipe shall be cut and removed as required. Contractor shall furnish any adapters and couplings required to complete the watertight connection.

The WATER SERVICE LINE (SPECIAL) pay item shall include the removal of lead service lines and reconnection from proposed watermain to curb stop. Contractor shall coordinate with the City at least 14 days before any WATER SERVICE LINE (SPECIAL) so the private side (curb stop to the meter inside the residence) of the water service can be replaced by City staff at the same time. The WATER SERVICE LINE (SPECIAL) material and construction method shall conform to the above WATER SERVICE LINE, 1" pay item.

All water service lines shall be installed by a licensed plumber.

Payment for work included in this item shall be at the contract unit price each for WATER SERVICE CONNECTION, 1" and WATER SERVICE LINE (SPECIAL) and include all labor, equipment, and material to install the water service lines including the corporation and curb stops.

WATER MAIN REMOVAL

WATER MAIN REMOVAL, 4"

WATER MAIN REMOVAL, 6"

This work shall comply with the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

This work shall consist of removing portions of both existing water main and existing water service lines as shown on the plans or as directed by the Engineer. Where end location of water main or service line to be removed is not indicated, Contractor shall remove to the right-of-way and cap. All 4" water main removal shall be included in the WATER MAIN REMOVAL, 4" pay item. All 6" water main removal shall be included in the WATER MAIN REMOVAL, 6" pay item. All water service lines 1" in diameter or smaller shall be included in the WATER MAIN REMOVAL pay item. Water mains and water service lines to be removed shall be disposed of by the Contractor. This work shall also include dewatering (if necessary), excavation, backfilling, and all other labor, materials, and equipment necessary to completely removal and dispose of the existing water main and services. Existing water mains and water service lines shall be removed and disposed of according to IDOT Article 202.03.

Removal of existing water mains and service lines shall not be completed until the proposed watermain is tested, sanitized, and in operation. Additionally, all water services should be transferred to the new main and all tie-ins should be made to the existing water main prior to removing any water mains and services.

Added June 1, 2026

If any existing water mains or service lines, not shown on the plans, are encountered during construction, the Contractor shall verify with the Owner and obtain approval prior to removing any additional piping.

The Contractor shall provide the Owner with at least 72 hours advance notice prior to removing any water mains or water service lines.

All water service removals shall include any corporation and curb stops encountered along the length of the removal.

This work shall be measured for payment in feet of existing water main to be removed. Payment for work included in this item shall be at the contract unit price per foot for WATERMAIN REMOVAL, WATERMAIN REMOVAL, 4", and WATER MAIN REMOVAL, 6".

CAP EXISTING WATER MAIN

This section includes all labor, equipment, and material for capping existing water mains and water service lines as shown on the plans. Additionally, the work shall include all excavation and backfilling necessary to access and cap the existing water main or service line.

Cut and remove a sufficient length of pipe to provide access for installing cap and thrust restrain on the portion of the main to remain in service (if applicable). The water main or water service line shall be drained and the water safely discharged prior to capping. Seal end of unconnected water main or water service line with watertight rubber gasket plugs or caps of same pipe type and size. If applicable, the abandoned side of water mains 4" in diameter or greater called out to be capped on the plans or as directed by the Engineer, shall be filled with flowable fill, leaving no voids.

Existing water mains and service lines shall not be capped until the proposed watermain is tested, sanitized, and in operation. Additionally, all water services should be transferred to the new main and all tie-ins should be made to the existing water main prior to capping any existing water mains and service lines.

The Contractor shall submit shop drawings, including the manufacturer's literature, for each cap being provided.

This work shall be measured for payment per each of existing water main or water service line to be capped. Payment for work included in this item shall be at the contract unit price per each for CAP EXISTING WATER MAIN.

Added June 1, 2026

SANITARY MANHOLE (SPECIAL)

This work shall be done in accordance with Section 501 of the Standard Specifications for Road and Bridge Construction and Sections 32-4 and 32-6 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

All manholes shall have a 4-foot interior diameter and have granular bedding from 6" below the bottom of the manhole to the springline of the highest connecting sewer. Granular bedding shall be CA-6. Granular bedding shall be compacted after placement. Payment for granular bedding shall be incidental to the cost of SANITARY MANHOLE (SPECIAL).

Frame and lid shall be Neenah R1772 with solid lid or East Jordan Iron Works Casting No. 1076 with the word "Sanitary" across the top. It shall be non-rocking in pavement areas.

The Contractor shall adjust the manhole casting to the final ground line as shown on the plans or directed by the Engineer in the field. Concrete "adjustment rings" having the same inside diameter as the casting may be used to raise the casting up to a maximum of 6 inches.

Connections between a manhole and sewer pipe shall be watertight. The connection shall utilize a connector which meets ASTM C 923 "Resilient Connectors Between Reinforced Concrete Manhole Structures and Pipes" (latest revision). The connector shall be cast in the manhole wall and shall be capable of remaining watertight for pipe deflection up to 10 degrees in any direction and for differential loading between pipe and manhole. The sanitary manhole connection shall be Model X-Cel by A Lok Products, Inc. or Kwik Seal by Press Seal Corp. Pay item SANITARY MANHOLE (SPECIAL) shall include all connections between a manhole and proposed sewer pipe and existing sewer pipe.

The Contractor shall field verify the existing sewers to be connected to proposed sanitary manholes prior to fabricating any pre-cast concrete sanitary manholes. At any location where a sewer invert is at or greater than 2-feet above the interior bottom of the manhole, an interior drop connection shall be installed. Payment for drop connections shall be included in the DROP MANHOLE CONNECTION pay item.

Joints between precast manhole sections and under the casting frame shall be watertight and sealed by means of preformed butyl resin rope. Seal material shall not shrink, harden, or oxidize with age. Installation shall be according to the manufacturer's recommendations and as shown on the drawings.

All manholes shall be tested individually by negative air pressure test (vacuum test) in accordance with ASTM C1244 at the contractor's expense.

Manholes that fail the test shall be repaired to the satisfaction of the Engineer or replaced and retested until passing the test. All testing and repair or replacement shall be incidental to the unit cost per manhole, and no additional payment shall be made.

Added June 1, 2026

The Contractor shall submit shop drawings, including the manufacturer's literature, for each manhole being provided, including sanitary sewer invert connecting locations.

Payment for manholes shall include all labor, materials and equipment necessary to construct, install, and test the manholes as shown on the plans and described in the specifications.

Payment for manholes shall be made at the respective contract unit price each for SANITARY MANHOLE (SPECIAL).

DROP MANHOLE CONNECTION

This work shall be done in accordance with Section 602 of the Standard Specifications for Road and Bridge Construction and Sections 32 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

This work shall consist of constructing a drop connection within the interior of a sanitary manhole for any pipe with an invert 2-feet or greater above the bottom of the manhole.

Payment for drop manhole connections shall include all labor, materials and equipment necessary to construct and install the drop connection as shown on the plans, standard details, and described in the specifications. Payment for drop connections shall be made at the respective contract unit price each for DROP MANHOLE CONNECTION.

SANITARY MANHOLES TO BE REMOVED

This work shall be done in accordance with Section 605 of the Standard Specifications for Road and Bridge Construction and the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

This work shall consist of removing sanitary manholes, including excavation and backfilling, as shown on the plans. All portions of the existing sanitary manhole are to be removed and disposed of properly including the existing frame and lid. Care should be taken not to damage any existing sanitary sewers to remain. If any existing sanitary sewers to remain are damaged during the removal of a sanitary manhole, the Contractor shall replace the full length of damaged pipe in kind at the Contractor's expense.

Payment for sanitary manholes to be removed, including all labor, materials, and equipment necessary, shall be made at the respective contract unit price per each for SANITARY MANHOLES TO BE REMOVED.

Added June 1, 2026

SANITARY SEWERS, PVC, 8"

This work shall be done in accordance with Section 560 of the IDOT Standard Specifications and Sections 30 and 31 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

Under this item, the Contractor shall provide all labor, equipment, and materials to construct and test the sanitary sewer as shown on the plans and as specified herein. Testing of all sanitary sewers shall be done by the Contractor.

Pipe materials will be PVC pipe meeting ASTM D3034 and shall be SDR26 with push-on joints with rubber gaskets meeting ASTM Specification F477. Pipe installation shall be per the pipe manufacturer and ASTM D2321.

The Contractor shall be responsible for purchasing and unloading the PVC SDR 26 pipe at the jobsite and storing it in a safe location. The Contractor shall accept all liability henceforth, and any damage to the pipe during or after unloading on the jobsite shall be the Contractor's responsibility.

Pipe bedding, haunching and initial backfill will be incidental to this item and shall not be measured for separate payment. Native backfill in turf areas will be incidental to this item and shall not be measured for separate payment.

All existing sanitary sewer shall be maintained in service during the entire period during which the new sewer is being constructed. The Contractor shall be responsible for installing and removing temporary piping and/or pumping required to maintain sanitary flow. Cost for installing and removing temporary piping and/or pumping shall be included in the SANITARY SEWERS, PVC, 8" pay item.

Work shall include excavation (including the removal of existing sanitary sewers or other abandoned utilities within the path of the new sanitary sewers); supply and placement of bedding material (Bedding and haunching material shall be CA-6); the supply and placement of sanitary sewers of the size noted on the plans.

Dewatering sufficient to maintain the water level 12 inches below the surface of the trench bottom or base of the bedding course, shall be accomplished prior to pipe laying and jointing, if not prior to excavation and placing of the bedding as called for in other sections of the specifications or Special Provisions. The dewatering operation, however accomplished, shall be carried out so that it does not destroy or weaken the strength of the soil under or alongside the trench. The normal water table shall be restored to its natural level in such a manner as to not disturb the pipe and its foundation. Cost of any dewatering operations shall be incidental to the sanitary sewer.

All sanitary sewers will receive a TV inspection by the Contractor and must be approved by the Engineer as having no remaining debris or buildup prior to payment approval. Cost for TV inspection shall be included in the SANITARY SEWERS, PVC, 8" pay item.

Added June 1, 2026

Conduct pressure and leakage tests on all newly installed pipelines or segments of pipelines. Furnish all necessary equipment and material and make all permanent or temporary connections or plugs to the pipe, as required to perform testing on pipe segments. Properly restrain all segments to be tested. Owner will monitor the tests. Test pressures and type of test shall be as specified. Sanitary sewer testing shall be per Standard Specifications for Water & Sewer Construction in Illinois, latest edition, provisions and as specified herein. The Contractor shall be required to test all the sanitary sewers installed on this project and all sections will be required to pass testing as outlined. Leakage tests shall be performed after the lines have been cleaned and the trench backfilled.

All gravity sanitary sewers shall be tested by exfiltration of water or exfiltration of air. The exfiltration of water method shall be done in accordance with Part 31-1.13 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition. The air testing method shall be done in accordance with ASTM F1417 and Part 31-1.13 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition. The appropriate method of leakage testing shall be determined by the Owner based on field conditions.

If any section fails to meet the tests, the section shall be repaired or replaced at the Contractor's expense and retested until it meets the leakage limits. Pressure grout or concrete encasement will not be acceptable methods of repair of joints.

The Contractor shall be required to conduct deflection testing on all flexible sewer pipe in accordance with applicable provisions of the Standard Specifications for Water and Sewer Construction in Illinois except as modified herein. Deflection testing shall be performed on all sewer which is installed. Sections of sewer shall be tested no sooner than 30 days after the sewer has been installed. Where feasible, testing shall be initiated at the downstream sections of the sewer and be followed by the upstream sections. Testing shall be performed by pulling through the sewer by hand a rigid ball or mandrel having an outside diameter equal to 95% of the base inside diameter of the pipe. Other instruments for measuring deflection may be used if they are approved by the Owner.

Deflection of flexible pipe shall not exceed 5% of the base inside diameter. Where deflection is found to be in excess of 5% of the original pipe diameter, the Contractor shall excavate to the point of excess deflection and carefully compact around the point where excess deflection was found. The line shall then be re-tested for deflection. However, should after the initial testing the deflected pipe fail to return to the original size (inside diameter) the line shall be replaced. The following report shall be submitted for each segment of installed pipe.

The Contractor shall submit shop drawings, including the manufacturer's literature, for all sizes of sanitary sewer being provided.

Cost for all testing required shall be included in the SANITARY SEWER, PVC, 8" pay item.

The work will be paid for at the contract unit price per lineal foot for SANITARY SEWER, PVC, 8". The cost of any exploratory excavation to locate all existing sanitary sewers shall be incidental to this item.

Added June 1, 2026

SANITARY SERVICE CONNECTION (SHORT)

This work shall comply with the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, in accordance with the details shown on the drawings, and as specified and modified below.

This work shall include furnishing all labor, equipment, and materials necessary to reconnect existing sanitary service laterals to the proposed sanitary sewer main. 6-inch service sewer pipe extensions required to reconnect the service to the main shall be SDR 26 solid wall PVC pipe conforming to ASTM D-3034. Joints shall be rubber gasketed slip-on type meeting ASTM D-3212. Connection of the existing service lateral to the new service sewer pipe shall be accomplished by use of the watertight compression-fit service connections. Prefabricated fittings shall be used to connect existing PVC service lines to proposed 6-inch PVC service sewer pipe. Fernco couplings shall be used when the existing service line is of a dissimilar material. A sanitary service connection shall include a maximum of 10 lineal feet of service lateral.

Pipe bedding, haunching and initial backfill will be incidental to this item and shall not be measured for separate payment. Native backfill in turf areas will be incidental to this item and shall not be measured for separate payment.

Work shall include excavation (including the removal of existing sanitary sewer laterals or other abandoned utilities within the path of the new sanitary sewer lateral); supply and placement of bedding material (Bedding and haunching material shall be CA-6); the supply and placement of sanitary sewer services of the size noted on the plans.

Service laterals shall be reconnected to the new sewer line after replacement and before video inspection is completed.

The Contractor shall minimize service interruption to the customer. Service outage shall be limited to the house of 8:00 AM to 5:00 PM, Monday through Friday, unless prior approval from the Owner has been granted. Notification to property owners at least 48 hours in advance of service interruption shall be provided by the Contractor.

Before joining and before any special pipe surface preparation, surfaces must be clean and dry. General dust and light soil may be removed by wiping the surfaces with clean, dry, lint-free clothes. Heavier soil may be washed or scrubbed off with soap and water solutions, followed by thorough rinsing with clean water, and drying with dry, clean, lint-free cloths. Join pipe and fittings in accordance with the manufacturer's written instructions and recommendations. Provide all special tools and devices required for proper installation. Lubricant for pipe gaskets shall be furnished by the pipe manufacturer.

In locations where riser pipes are required, backfill around the riser shall be compacted to properly support the riser pipe. Bends with an angle of not more than 45 degrees shall be used on the service sewer line as required to align the new and existing pipes.

The Contractor shall submit shop drawings for the pre-fabricated fittings, service sewer pipe extensions and couplings which they propose to use.

Added June 1, 2026

Payment shall include the cost of all fittings, plugs, and accessories, as well as labor, tools, and equipment necessary to perform the work described under this item. Payment for this work shall be made at the contract unit price each for SANITARY SERVICE CONNECTION (SHORT).

SANITARY SEWER REMOVAL

This work shall be done in accordance with applicable portions of the IDOT Standard Specifications and the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

This work shall consist of the removal and disposal of sanitary sewers as shown on the plans and described in the specifications. Existing sanitary sewers shall be removed and disposed of according to IDOT Article 202.03.

Removal of sanitary sewers will be measured in linear feet. Payment shall include all labor, equipment, and materials necessary to remove existing sanitary sewers as shown on the plans. Payment for this work shall be made at the contract unit price per foot of SANITARY SEWER REMOVAL.

TRENCH BACKFILL

This work shall be done in accordance with Section 208 of the Standard Specifications for Road and Bridge Construction and Section 20 of the Standard Specifications for Water and Sewer Construction in Illinois, latest edition, as specified and modified below.

Trench Backfill per Illinois Department of Transportation requirements shall be placed in accordance with the trench detail shown in the construction plans. Trench backfill shall also be utilized to backfill any trenches or excavations when within 2 feet of a street, sidewalk, multi-use path, curb, or driveway.

The term "Trench Backfill" shall be synonymous with the term "Select Granular Backfill" for this project.

Trench backfill shall be compacted in 6-to-8-inch lifts to 95% standard proctor dry density above the initial backfill. Jetting will not be allowed, nor will the use of a falling weight stomper or drop hammer.

The measurement for payment shall be per Illinois Department of Transportation Standard Specifications and Details.

Payment shall be made at the contract unit price per cubic yard for TRENCH BACKFILL, which shall include all labor, materials, and equipment necessary to complete this item.

Added June 1, 2026

STATUS OF UTILITIES (D2)

Utility companies located within the construction limits of this project have provided the following information regarding their facilities and the proposed improvements.

This represents the best information available to the Department and is included for the convenience of the bidder. The applicable portions of the Standard Specifications for Road and Bridge Construction shall apply.

The contractor may schedule a utility kickoff meeting and utility progress meetings between the Department, the Department's contractor and the utility companies when necessary. The Department's contractor is responsible for contacting J.U.L.I.E. prior to all excavation work.

UTILITIES TO BE ADJUSTED

The responsible agency must relocate or complete new installations as noted below for the Department's contractor to then work in the said location:

OWNER	TYPE	STAGE / LOCATION	DESCRIPTION	NOTES
Ameren	Electric	Through entire project	Poles & OH lines	They need all of 2026 for relocation.
Frontier	Telecom	Through entire project	OH lines	They are built on Ameren poles and dependent on Ameren to relocate first.
Comcast	Telecom	Through entire project	OH lines	They are built on Ameren poles and dependent on Ameren to relocate first.
Ameren	Gas	Through entire project	UG lines	They need all of 2026 for relocation.
Geneseo Communications	Telecom	Through entire project	UG lines	They need all of 2026 for relocation.

Added June 1, 2026

UTILITY CONTACT INFORMATION

The following contact information is provided by the utilities specifically for this project:

Agency/Company	Name of contact	Phone	E-mail address	Notes
Ameren	Gina Lovell	(309) 312-1679	glovell@ameren.com	Contact for electric & gas
Frontier	Terry Spurgeon	(309) 853-6293	terry.spurgeon@ftr.com	
Comcast	Tom Yuccas	(815) 509-8653	thomas_yuccas@cable.comcast.com	
Geneseo Communications	Chris Dunn	(309) 714-2429	chris.dunn@geneseo.com	

ATTACHMENTS

(none)

Added June 1, 2026