

GENERAL PROVISIONS

The Contractor is advised that there are several changes to the most recent edition of the City of Cincinnati Supplement dated January 1, 2023. These General Provisions include these changes. The Supplement and a Summary of Changes can be purchased or downloaded from the City's website: <http://www.cincinnati-oh.gov/date/assets/File/2023%20CITY%20SUPPLEMENT-FINAL.pdf>

Water main items are to be constructed in accordance with the provisions of the State of Ohio, Department of Transportation, Construction and Material Specifications, dated January 1, 2023, and modified by the City of Cincinnati Supplement to said State of Ohio Specifications, effective January 1, 2023, and any supplements or changes thereto. Copies of the State specifications are on file at the Office of Contract Sales of the State of Ohio, Department of Transportation, 25 South Front Street, Columbus, Ohio, and at the offices of the City Engineer of Cincinnati, Ohio. Submittal of a bid for this project implies that the Contractor has taken all provisions of the Supplement into account.

The Greater Cincinnati Water Works (GCWW) understands that differing site conditions results in extra work/change orders to the project. Change orders on GCWW contracts will be done in strict accordance with Item 109.05 C of the State of Ohio Department of Transportation Construction and Material Specifications dated January 1, 2023 or most recent edition and as modified in this City of Cincinnati Supplement. GCWW limits the mark up on wages and fringe benefits as described in 109.05 C. 2. "Labor" to 30%. It is expressly understood that regardless of the nature of the claim, or change in scope of work, the Contractor is not entitled to compensation for loss of anticipated profit or production.

As defined in the City of Cincinnati Supplement, sections 107.07 and 107.071, the Contractor is required to submit, at the time of the pre-construction meeting, a Site Safety Plan. Furthermore, the Contractor shall have an authorized and competent safety representative assigned to the project site.

The Contractor is advised that he has certain responsibilities under Section 153.64 of The Ohio Revised Code. For all underground utilities, contact the Ohio Utilities Protection Service at 1-800-362-2764 (toll free) 48 hours in advance of work. The Contractor is advised that all utility information has been shown on the contract plans from information provided by the owner of each utility in compliance with Sec. 153.64 of the Ohio Revised Code. In cases where utility information is incorrect and it results in a change in the contract plans the Contractor shall first notify the owner of the utility to determine the necessary course of action. The Contractor shall submit any subsequent claims as a result of downtime or additional work to the owner of the conflicting utility. The GCWW will not accept claims for any utility other than those as a result of incorrect water main and related appurtenance information.

The Contractor must locate or "pot hole" all utilities within the alignment of the proposed main a minimum of 50 feet ahead of pipe laying. Test holes must be dug, or trench excavated, a minimum of 50 feet (15.2 m) in advance of pipe laying, to assure proper clearance between the water main and any utility crossing, or underground structure. All utilities and structures shall be suitably braced and supported. The Contractor shall understand that any obstructions encountered in the installation of the main, due to the failure of having 50 feet (15.2m) of trench excavated ahead of laying operations, may require removal and relaying of the pipe at the contractors expense. The GCWW will not accept a claim for different utility conditions encountered when test holes are not performed as required.

Item 1120, "Exploratory Excavation", shall not include excavations within the limits of the proposed trench as defined in 1101.04 and 1101.05. Test holes are required on all utilities within 50 feet of the last laid pipe. Test holes within the alignment of the proposed trench are included in the Contractor's unit bid for Item 1101. Locations to be explored will vary from areas within the roadway to areas outside of the roadway.

It is the nature of construction that unmarked utilities or utilities not shown on the plans may be encountered within the excavation for the proposed work. The contractor is responsible for identifying all utilities encountered within the excavation and removing any abandoned utilities as necessary for the work. If abandoned utilities are encountered that: are shown on the plans, are crossing the trench, or do not impede the excavation; no extra payment will be made to the contractor. Such work shall be included in the contractor's unit price bid for the appropriate "Item 1101 Furnishing & Laying Pipe and Fittings". If abandoned utilities are encountered that: are not shown on the plans, are along the length of the trench, and impede the excavation, such work will be paid via the contractor's unit price for "Item 202 Existing Pipe Removal".

Street pavement or sidewalk should not be disturbed for a distance of more than 200 Feet (61.0 m) ahead of the last laid pipe. Backfill shall be completed within 50 feet (15.2 m) of the last laid pipe. Temporary or permanent surface restoration must be installed within a distance of 200 feet (61.0 m) of the laid pipe, including those areas where main installations occur within a closed lane or closed street condition. Roadway plates may be used as a temporary measure for a period not to exceed 24 hours without the approval of the GCWW.

Any undermined pavement of more than 6 inches horizontal must be removed prior to starting trench backfill. If undermining of pavement occurs more than 1 foot, then pavement must be shored to protect traffic, or arrangements made for additional lane closures must be made. If problems continue to occur regarding trenching integrity, sheeting and bracing can be required by the City Engineer or the City Engineer's representative, at the contractor's expense. If any tunneling is necessary, adequate information shown in both plan and profile and tunneling procedures must be submitted to the City Engineer's Office prior to commencement of work.

The GCWW has made every effort to depict the pipe sewers and lateral information on the plans. The Contractor is advised that sewer laterals are shown in plan view only. The Contractor shall determine the elevation of the sewer laterals in advance of laying the water main at these crossings. If the sewer laterals require changing in order to avoid conflict with the water main, or if the Contractor encounters a pipe sewer or lateral in the excavation that was not shown on the plans and requires a change of grade or alignment due to the installation of the water main, the Contractor shall furnish all necessary labor, material, tools, and equipment required to change the grade or alignment of pipe sewers and laterals of various sizes, allowing installation of water mains and appurtenances as shown on the plans, or as directed by the GCWW Inspector. This work shall include all necessary excavation, backfill, and restoration. The Contractor will be compensated under Item 1123, "Changing Pipe Sewers 8 Inch and Under". When crossing sanitary and combination sewers, a vertical clearance of 18" must be maintained.

Notice of Confidentiality – Public Infrastructure Record

This Document is a Public Infrastructure Record of the City of Cincinnati and its Greater Cincinnati Water Works, and is not subject to the public disclosure requirements of the public records laws of the State of Ohio and federal government. This Document is being provided on the basis of your reported need, and shall be considered confidential. By accepting this Document, you agree that it will not be shared or otherwise disclosed to anyone other than persons who have a direct need to know for the sole purpose of carrying out the project for which this Document was obtained. Anyone receiving this Document is bound by the same confidentiality requirements and must take precautions to protect against its dissemination.

The failure to observe the confidentiality requirements of this Notice shall serve as the basis for the City of Cincinnati to immediately seek legal recourse, including the recovery of actual damages resulting from unauthorized access or disclosure of the Document.



The Contractor is advised that due to the alignment of the proposed water main, it may be necessary to install a temporary valve box over an existing chambered valve that must remain in service during the water main installation as directed by the GCWW Inspector. The chamber shall be abandoned, a valve box (furnished by the contractor) placed over the valve, and upon project completion, the valve box must be removed. The contractor will not receive additional compensation for this work, but should include the cost of this work in his unit bid price for Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

It is the Contractor's responsibility to provide adequate water supply for domestic and fire fighting purposes. In order to accomplish the water main connections with a minimum amount of inconvenience to the consumers, it may be necessary to do the work at other than normal working hours or as may be scheduled by the GCWW.

The Contractor is advised that the operating pressure of the existing water main within the limits of the subject project is approximately **50–60 P.S.I.**

In order to minimize the inconvenience of the consumers, the number of shutdowns required to do the proposed water main work shall be limited. Only one shutdown, limited to 8 hours, will be allowed during a 24 hour period.

All water service branches have a minimum cover of 3.0 feet.

The Contractor is advised that it shall be necessary to install temporary Plug/caps on the existing and proposed water mains in order to maintain service during testing and water main and branch connections. These temporary Plug shall be furnished by the contractor. He is responsible for their proper installation. The cost for this work shall be included in the Contractor's unit bid price for the appropriate Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

The Contractor is required to excavate and expose the existing utilities and existing water mains along the line of the proposed water main and all proposed connection points to verify location, diameter, line and grade. Also, if the removal of the bulkhead or plug is required all excavation and temporary/permanent restoration shall be compensated under the Contractor's unit bid price for Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

The Contractor is advised that all C.J. Plug are to be restrained with a Field Lok Gasket and all M.J. caps are to be restrained using a M.J.R.G.. This includes temporary Plug and caps for testing purposes. When a temporary plug is used, the contractor is permitted to remove the plug by cutting the section of pipe containing the plug and using a solid sleeve at that point to complete the tie-in. In the event that a cap is used, the contractor shall remove the M.J.R.G. and cap before completing the tie-in.

The Contractor is advised that on any fire hydrant required to be relocated with this project, all bolt assemblies shall be replaced. The cost for this work shall be included in the unit bid price for Item 1113 "Relocating Existing Fire Hydrants". No part of any fire hydrant setting shall be installed closer than five feet to any driveway, inlet, utility pole or guy wire anchor. No part of any fire hydrant setting shall be installed closer than five feet to any driveway, inlet, utility pole or guy wire anchor. Contractor shall provide all labor, material, equipment and traffic control to test fire flow on all fire hydrants included in this water main replacement project in accordance with the fire hydrant flow testing scope included with the bid documents. If necessary, existing adjacent hydrants may need to be included in the fire hydrant testing. The need to test existing hydrants will be determined by the GCWW inspector. Contractor shall provide all labor, material and equipment to point [all] fire hydrants [numbered F.H.#xx – F.H.#yy] that are located within the Cincinnati City limits in accordance with the fire hydrant painting scope included with the bid documents. Painting shall only apply to fire hydrants inside the Cincinnati City limits as noted on the plans.

Item 1111, "Water Works Valve Chambers", shall also cover the furnishing and installing of Precast Reinforced Concrete Chambers in accordance with O.D.O.T. Specification 706.13. All pertinent provisions of this item and GCWW Standard Drawing No. 104-1A shall apply. Precast chambers shall be used in all locations where space permits and as directed by the GCWW.

Air cocks may be necessary for the proper operation of the water system. The Air Release Assembly, which may not be shown on the drawing, will be furnished and installed by the Contractor per the detail on these plans, if required by the GCWW.

It shall be the Contractor's responsibility to arrange for the removal and replacement of any poles and guys necessary for the installation of the proposed water mains, and any cost connected thereto shall be at his expense.

All pipe and specials shall be in accordance with City of Cincinnati Specification 40-110-16.

All procured water main and appurtenance materials, other than those furnished through the GCWW must be properly certified; certified for GCWW Inspection: or already inspected by the GCWW. Pipe, fittings, valves and fire hydrants must be GCWW inspected and stamped materials.

The Contractor should be advised that all Fittings (Bends, Offset Bends, Tees, Crosses, Sleeves, Caps and Plug) supplied for this job may be either ANSI/AWWA C-110 Full-body Ductile Iron, Cement Lined Fittings or ANSI/AWWA C-153 Compact Ductile Iron, Fusion Bonded Epoxy Coated Fittings in accordance with City of Cincinnati, Department of Purchasing, Standard Specification No. 40-110-12 for Pipe and Fittings Water, Ductile Iron 3" to 60". All fittings are subject to inspection and approval by appropriate GCWW Inspection personnel. Minor pinholes and abrasions to epoxy coated valves and fittings are to be repaired using 3M Hot Melt Patch Compounds (H.M.P.C.) in the stick form. Repair procedures shall be in accordance with the General Application Steps identified for the H.M.P.C. All repairs to epoxy coated fittings are subject to inspection and approval by appropriate GCWW Inspection personnel.

All rejected material, including pipe and fittings, shall be removed from the project site immediately.

The Contractor must maintain access to sidewalks at all times. Storage of any materials within the public Right of Way, including sidewalks, is not permitted unless approved by GCWW, the Project Engineer, or as indicated on the approved plans.

All copper tubing shall be type "K" of a standard nominal size: 3/4", 1", 1-1/2" and 2". All fittings will have copper flare type connections and shall be in accordance with City of Cincinnati Specification No. 40-113-05.

The contractor shall furnish the necessary certifications for branch material.

All proposed water mains will be hydrostatically tested for leakage in accordance with 1101.054,"Hydrostatic Test for Leakage", of the appropriate Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

The Contractor will be responsible for filling, flushing, and pressure testing new water mains, 20" or smaller. The contractor will provide all labor, material and equipment (including the necessary pumps to apply the pressure test). The Water Works will provide the necessary meter and gauge. All costs for this work shall be included in the contractor's unit bid price for Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings". Once the filling and pressure testing are completed, the Contractor will be responsible for flushing the proposed water main and the GCWW will be responsible for bacteria sampling. The GCWW will be responsible for filling, pressure testing and flushing new water mains greater than 20".

The Contractor is responsible for all pipe sewers disturbed in the completion of this project. In the event it becomes necessary to repair or replace existing pipe sewers, the Contractor must notify Sewer Maintenance, (513)244-1369, before proceeding with the work.

The Contractor is advised that his unit bid prices for the appropriate Item 1101, "Furnish & Install Pipe and Fittings", includes final restoration of all disturbed surfaces. The GCWW will not make full compensation under Item 1101 until final restoration is complete.

*All valve and air release box assemblies shall be domestically manufactured.

All box assemblies for 12-inch and smaller gate valves and 1-inch air releases shall be either Tyler Union Series 6850, EJ Series 8500, or Bingham & Taylor Series 4905, or GCWW approved equal. Box assemblies for these applications require a frost plug and "BOXLOK."

All box assemblies for 16-inch and above butterfly or gate valves and 2-inch air releases shall be EJ Series 460, or GCWW approved equal. Box assemblies for these applications require a frost plug.

All costs associated with adherence to these requirements shall be included in the Contractor's unit bid price for Item 1116 – Furnishing and Installing Valve Box Complete.

SUGGESTED BILL OF MATERIAL

FURNISHED BY CONTRACTOR

***Note: Contractor shall verify the size and material of each service branch at the property line prior to installing branch. Cost for this work to be included in Item 1126--"Furnishing and Installing Copper Service Pipe w/ Aqua Shield".

The materials listed are only suggested for use during the water main and branch relocation work as proposed on the drawings. The contractor shall furnish additional material where needed. No allowance will be made for unused material nor will any extra payment be made for additional specials required to complete the water main work. Before ordering material the contractor is responsible for making his own field measurements and for field verifying the O.D. of existing water mains where sleeves and pipe couplings are involved.

Note 1:
Valves furnished by the contractor shall be; American Resilient Wedge Gate Valve Series 2500, U.S. Pipe Metrosael Gate Valve, Kennedy Valve Ken Seal II Resilient Gate Valve, Clow F-6100 Series Resilient Wedge Gate Valve, Mueller 2360 Resilient Wedge Gate Valve.

Note 2:
Low-Lead Brass Material Requirements:
All components in contact with water shall be fabricated from Sebiloy II or Federalloy I-836 alloys or a material approved by the Engineer. All components that do not come in contact with water shall comply with the requirements of ASTM B 62 Copper Alloy Number. Coated or washed metals are not acceptable if their lead levels exceed .25% by weight prior to the coating or washing process. All service fittings and materials shall be certified as suitable for contact with drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 61, Drinking Water Systems Components – Health Effects. All service fittings shall either be stamped or embossed with the letter "NL", to indicate "No-Lead", or marked to indicate that the product is manufactured from the low-lead alloys.

Note 3:
Special Note on Service Pipe in Corrosive Soils:
Service tubing is to be soft K Copper manufactured to the requirements of ASTM B88. Service tubing coating shall have NOVA Polyethylene LLDPE extrusion resin PP-0118-F coating to meet minimum of .026 mil thickness containing UV inhibitors. Service tubing shall have identification & traceability on both copper & plastic continuously line-marked with tube contents, ASTM specification, size, & descending footage. Unique lot number printed on both copper & plastic allowing product to be traced back to origin and time of manufacturing. Service tubing shall be Aqua Shield as manufactured by KAMCO Products Inc. or approved equal.

Note 4:
Mechanical Joint Restrain Gland (MJRG):
All mechanical joint restraint glands furnished by the contractor shall be any of the following: EBAA--Megalug TYLER/UNION--Tufgrip STAR--Storgrip FORD--Uni-Flange Series 1400

All products shall be domestically manufactured.

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PLAINFIELD RD. AND BLUE ASH RD. IMPROVEMENT

APPROVED: WW004683 / 4-4181 / MF-17058

GCWW SUPERVISING ENGINEER - DESIGN

DATE

GCWW PRINCIPAL ENGINEER - SYSTEM FACILITIES

DATE

GCWW CHIEF ENGINEER

DATE

OhioEPA

Ohio Environmental Protection Agency "Self-Certification" letter required prior to the start of construction.

☐ OEPA CERTIFICATION EXEMPT

☐ NON - EXEMPT

OEPA REVIEW

DATE



CALCULATED	REVISIONS
E.G.B.	
CHECKED	
D.L.	

51

56

73

74

75

76

77

0+00

1+00

2+00

2+55

Ex. 12" Storm

Prop. 12" Storm

Ex. 16" W.M. (2024)

Ex. 30" W.M. (1957)

Ex. 8" Gas

Ex. 8" Sewer

Prop. 16" W.M.

Ex. 16" W.M. (1926) (TBA)

Ex. 16" W.M. (1926)

Ex. 8" Gas

Ex. 8" Sewer

Sibley Ave.

Ex. 8" W.M. (2016)

Ex. 8" Gas

Ex. 8" Sewer

6108 Blue Ash Rd.

6110 Blue Ash Rd.

6108-1408-15" Cu/Cu

6110-2005-3/4" Cu/Cu

16-LF. 15" Copper Service Pipe

1-1.5" Stop Cock

1-1.5" Ferrule

1-1.5" Insulating Coupling

1-Roadway Box

1-1.5" Ferrule Cu/Cu

1-1.5" Insulating Coupling

1-Roadway Box

1-16" x6" Tee, 2MJ x Flg.

1-6" Valve, Flg. x MJ

1-6" Flange Tyte Rubber Gasket

1-6" Plug, MJ (Temp.)

1-6" Fire Hydrant, MJ

1-6" Fire Hydrant Ext. (24" Long)

1-Valve Box Complete

1-Valve Box Frost Plug

1-Valve Box Box Lok

2-6" M.J.R.G.

2-16" M.J.R.G.

1-8" 22.5' Bend, 2MJ

1-8" 45' Bend, 2MJ

2-16" 45' Bend, 2MJ

1-16"x8" Tee, 3MJ

1-8" Cap, MJ (Temporary)

1-16" Cap, MJ (Temporary)

1-8" Solid Sleeve, 2MJ

1-16" Solid Sleeve, 2MJ

10-8" M.J.R.G.

3-8" Field Lok Gasket

2-Remove Ex. Valve Box

4-16" 45' Bend, 2MJ

1-16" Cap, MJ (Temporary)

1-16" Solid Sleeve, DP

1-16" Valve, 2MJ

1-Valve Box Complete

1-Valve Box Frost Plug

1-Valve Box Box Lok

11-16" M.J.R.G.

#-16" Field Lok Gasket

2-2" Air Release Assembly

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Profile view of the sewer line. The vertical axis shows elevation in feet from 840 to 890. The horizontal axis shows stationing from 0+00 to 0+20. The sewer line is shown as a solid black line with a diameter of 8 inches. It starts at station 0+00 at an elevation of approximately 860 feet, passes through a 30-inch water main (W.M.) at station 0+05, and ends at station 0+20 at an elevation of approximately 860 feet. A fire hydrant is located at station 0+15 at an elevation of 856.40 feet. The sewer line is supported by 16x6 inch tee, 2 million x 4 foot flange (Fig. x MJ) and 6 inch valve, Fig. x MJ. The sewer line is restrained at all joints. The sewer line is labeled 'Ex. 8" Sewer' and 'Ex. 8" Gas'.

[illegible]

THE FAILURE TO OBSERVE THE CONFIDENTIALITY REQUIREMENTS OF THIS NOTICE SHALL SERVE AS THE BASIS FOR THE CITY OF CINCINNATI TO IMMEDIATELY SEEK LEGAL RECOURSE, INCLUDING THE RECOVERY OF ACTUAL DAMAGES RESULTING FROM UNAUTHORIZED ACCESS OR DISCLOSURE OF THE DOCUMENT.

REVISIONS		E.G.B.
		<u>CHECKED</u>
		D.L.

GREATER CINCINNATI
WATER WORKS
ENGINEERING DIVISION / DESIGN SECTION
3845 EASTERN AVENUE, CINCINNATI, OHIO 45226



BLUE ASH RD.
PLAN AND PROFILE

4-4181
NW004683
MF-17058

