PLEASE ADD THE FOLLOWING NOTES TO THE ATTACHED PLAN
(MUNICIPALITIES ONLY)

GENERAL NOTES

[ ] The City of Columbus Construction and Material Specifications, 2018 edition and all revisions, including all supplements thereto, shall govern all construction items that are a part of this plan, unless otherwise noted.

[ ] All water main materials and installations shall be in accordance with the current rules and regulations of the City of Columbus, Division of Water. All City of Columbus, Division of Water Standard Drawings shall apply to the project, unless otherwise noted.

[ ] For any emergencies involving the water distribution system, please contact the Division of Water Distribution Maintenance Office at 614-645-7788.

[ ] All brass fittings associated with water work, including repairs to the existing system, shall conform to the **revised allowable lead extraction limit per the updated NSF/ANSI 61 Standard**. The Division of Water's Approved Materials List has been updated to reflect this requirement.

[ ] It shall be unlawful for any person to perform any work on City of Columbus water main systems without first securing license to engage in such work, as indicated in Columbus City Code Section 1103.02 and 1103.06. This work includes any attachments, additions to or alterations in any city service pipe or appurtenances (including water service lines and taps). This requirement may be met by utilization of a subcontractor who holds a City of Columbus Water Contractor License or a Combined Water/Sewer Contractor License to perform this work. Utilization of a subcontractor must meet the licensing requirements of City of Columbus Building Code, in particular Section 4114.119 and 4114.529.

[ ] No person shall begin construction or installation of a public water main until plans have been approved by the State of Ohio Environmental Protection Agency (OEPA).

[ ] Approval on the part of the City of Columbus is given pursuant to the provisions of the Water Service Agreement between ____(municipality name)___ and the City of Columbus, Ohio, on ____(agreement date)____ and all subsequent amendments thereof. (Must appear above Columbus signature block).

(Bexley – January 01, 1991): (Brice – January 01, 2015): (Dublin – April 13, 1993):
(Franklin County – March 5, 2013): (Franklin Sewer District No. 4 – January 01, 1995):
(Gahanna – July 01, 1999): (Grandview – August 13, 2014):
(Groveport – June 03, 2015): (Grove City – February 05, 2001):
(Hilliard – February 09, 1990): (Marble Cliff – March 05, 2013):
(Minerva Park – July 01, 2013): (New Albany – January 26, 2012)
(Obetz – April 03, 1995): (Reynoldsburg – January 01, 1995):
(Riverlea – May 05, 2014): (Upper Arlington – December 03, 1999):
(Urbancrest – July 26, 1999): (Valley View – January 01, 2014):
(Whitehall – March 05, 2013): (Worthington – April 9, 2008):

[ ] The Contractor shall obtain the proper hydrant permit(s), and pay any applicable fees, for any approved hydrant usage deemed necessary for work under this improvement. Permits must be obtained from the respective hydrant owner (municipality or township) prior to contacting the Division of Water Permit Office (645-7330). The contractor shall adhere to all rules & regulations governing said permit and must have the original permit on site anytime in which the hydrant is in use. Permits may be obtained by accessing http://portal.columbus.gov/permits/.

[ ] The chart below identifies locations in which PVC piping is permitted for use on this project:

Street Name	Description of Limits	Size of Water Main	Linear Footage of Pipe

PVC pipe may only be used as an alternate for 6 and 8-inch ductile iron water mains, and shall not be used for hydrant leads or water taps.

[ ] Continuity testing shall be performed for any tracer wire installed on the PVC pipe. After installation of the tracer wire, testing of the tracer wire shall be performed with a low frequency tracer signal. Tracer wire shall be installed as per 801.07. Continuity testing shall be witnessed and documented by the inspector. The tracer wire test report shall also be included in any chlorination request submittals.

[ ] These design plans have assumed ductile iron as the baseline pipe material for design. All fittings, deflections, and other design elements are based off of the ductile iron standards. If PVC piping is to be utilized in the permitted locations for construction, a formal plan revision shall be submitted for review and approval regarding any changes to the design plans.

NOTE TO CONSULTANT: PVC will only be permitted with written approval from the Contract Community.

[ ] All water mains shall be cleaned and flushed, and any water main 12-inch and larger must be properly pigged, in accordance with section 801.15 of the City of Columbus, Construction and Material Specifications.

[ ] All water mains shall be pressure tested in accordance with section 801.16 of the City of Columbus, Construction and Material Specifications. The City may not approve any test lasting less than two hours, regardless of the amount of leakage.

[ ] All water mains shall be disinfected in accordance with section 801.17 of the City of Columbus, Construction and Material Specifications. Special attention is directed to applicable sections of A.W.W.A. C-651. When the water mains are ready for disinfection, the City of _____ shall submit a written request for chlorination of the mains that need disinfected, three (3) sets of "as-built" plans (full size sheets only), the as-built survey coordinates, water service reports and a pressure test to the City of Columbus, Division of Water. The contractor shall be responsible for all costs associated with the disinfection of all water mains constructed under this plan.

[ ] The Contractor shall provide chlorination taps and blowoffs as per the requirements of section 801.17 of the City of Columbus, Construction and Material Specifications. In addition to the blowoff locations noted in 801.17, the contractor shall also install blowoffs at every 1,100 linear feet of the water main installed for sampling.

[ ] Any section of water main that is longer than 20 feet in length shall be chlorinated. Hand swabbing methods will only be permitted for sections less than or equal to 20 feet in length. Use unscented household bleach for hand swabbing of pipe and fittings. Please note that cut-in-tees, sleeves, and any other required fittings or piping shall be taken into account and are included in the total length of the section (cut to cut).

[ ] Only one connection to an existing water main is permitted before disinfection of a new water main has been completed. All other connections must be made after the main has been disinfected.

[ ] Where indicated on the plans, the existing water main shall be abandoned; and any existing water service lines off this main shall be transferred to the new water main. Prior to abandonment of the existing water main, the proposed water main shall be pigged (if required), tested, chlorinated and put in service and then the existing water service lines shall be transferred. The Contractor shall maintain water service to all properties during construction of the new water main and shall notify all customers affected by the transfer of water service lines. To ensure that all existing water service lines are transferred to the new main, no water main shall be abandoned until the new water main has been put in service; all affected water service lines have been transferred; and the existing water main to be abandoned has been shut down for 24 hours. All visible valve boxes, fire hydrants, and water tap boxes on the water main to be abandoned, which will no longer be in service, shall be removed. All water mains to be abandoned shall be made water tight. The required surface restoration shall be paid for under the appropriate bid item(s).

[ ] All water meters associated with this project shall be installed inside the proposed structure unless a meter pit is approved by the Administrator of the Division of Water. All meter pits must conform to Standard Drawing L-7103 for 5/8" through 1" meters or L-6317 A, B, C, D, & E for 1-1/2" or larger meters.

[ ] No water service connection permits shall be issued or connections made to any water taps until water mains have been disinfected by the City of Columbus, Division of Water. When a 3-inch or larger tap is to occur on a 20-inch or larger water main, the Contractor shall notify the Division of Water Operations Control Center at (614)-645-7168 twenty-four (24) hours in advance of performing the tap.

[ ] Water tap boxes shall be placed 1’ from the edge of the proposed or existing sidewalk between the sidewalk and the curb, or 2 feet inside the right-of-way or easement line when no sidewalk is present or proposed. Refer to Standard Drawing L-9901 for additional information.

[ ] When performing water service line transfers, the Contractor shall flush the water tap prior to connecting to the existing service line

[ ] Maintain eighteen (18) inches vertical and ten (10) feet horizontal separation between any sanitary or storm sewer piping and all proposed water mains.

[ ] When crossing the existing water main, and Low Strength Mortar (Item 613) is to be used as backfill, the Contractor shall provide Size No. 57 Crushed Carbonate Stone (CCS) 1 foot below to 1 foot above the existing water main.

[ ] If during excavation, the polyethylene encasement on the existing water main becomes damaged, the contractor shall repair the polyethylene encasement per manufacturer’s specifications and DOW Standard Drawings L-1003 and L-1004, at their own expense. Ensure that the entire exposed area is covered with new polyethylene encasement and securely taped, prior to backfilling.

[ ] Contractor shall adhere to the requirements of the Ohio Administrative Code Chapter 3745-83-02 Water Disruption of Service Rule. Excavate pits sufficiently below the area to be connected to in order to maintain water levels below the water main. If water from the pit enters the existing main, contact Division of Water immediately. Ensure that sufficiently sized pumps are utilized to remove water from the trench and backup pumps are kept on site for redundancy.

[ ] "Item Special – Survey Coordinates" shall include all material, equipment, and labor necessary to obtain horizontal and vertical (northing, easting, and centerline of pipe elevation) survey coordinates for the water main improvements. The survey coordinates shall be obtained for the completed water main construction and shall include all valves, tees, crosses, bends, horizontal deflections, plugs, reducers, tapping sleeves, fire hydrants, air releases, curb stops, tracer wire boxes, and casing pipe termini. Additional survey coordinates are required on the water main every 200 feet where no fitting or other water main structure is being installed within that length of the improvement.

All survey coordinates shall be referenced to the applicable County Engineer's Monuments, and shall be based on the North American Datum of 1983 (NAD 83) with the (NSRS2011) adjustment, with further reference made to the Ohio State Plane South Coordinate System (grid), South Zone, with elevations based on NAVD 88 datum. All coordinates (northing, easting, and centerline of pipe elevation) shall be referenced to the nearest hundredth (N xxxxxx.xx, E xxxxxx.xx, C/L Elev. xxx.xx). All survey coordinates shall be accurate to within 1.0 foot horizontal and a tenth of a foot (0.10) or less vertical.

The coordinates shall be documented to the Municipality Engineer or designated representative in digital spreadsheet form and shall include the applicable item, station, Northing, Easting, and Centerline of pipe elevation. Coordinates shall be submitted to the Municipality Engineer or designated representative on a bi-weekly basis. Coordinates shall also be required to be submitted to the Division of Water as part of the request for chlorination.

Lump sum payment is full compensation for all work involved in obtaining and documenting the survey Coordinates as described in this specification.

NOTE TO CONSULTANT: Provide the x, y, z coordinate table for proposed work and blank spaces for as-builts on the sheets as required by the C.O.C. Water Distribution Engineering Section.

SPECIAL NOTES

[ ] All water main valve boxes, water tap boxes, test stations, pitometer tap structures, meter pit covers, and other surface utility structures within the disturbed area shall be adjusted to grade. Any of these structures located within pavement, driveways, or other traveled areas, whether existing or proposed, shall be equipped with a traffic rated, heavy duty valve box and/or cover in accordance with the Standard Drawings. Existing water tap boxes to remain that are encountered within the project limits shall be cleaned out, centered over the curb stop, and adjusted to the proposed grade.

[ ] Where new conduit is proposed to cross an existing or proposed water main or water tap/service line, a minimum of 12-inches of vertical clearance shall be maintained between the conduit and the water main or tap/service line. A minimum of 3-feet of horizontal clearance (out to out) is required at locations where the conduit is parallel to the water main and at locations of water main thrust blocks.

[ ] A minimum of 3 feet of horizontal clearance (out to out) shall be maintained between all existing water mains and foundations for poles, pull boxes, push button pedestals, and any other miscellaneous electrical structure.

[ ] A minimum of 4 feet of cover is required prior to pressure testing any water main. A sufficient amount of backfill shall be installed to provide the adequate restraint in areas where required.

[ ] The proposed water main shall be located a minimum distance of twenty (20) feet away from any structure, overhang or footer.

[ ] All valve boxes, water tap boxes, and fire hydrants shall be located within the easement area.

[ ] The developer shall complete the construction of the proposed _____ inch water main within two (2) years after the completion of Phase I.

[ ] Approval of the water mains shown on this plan is contingent upon the completion of the water mains in _____ .

[ ] During construction, the Contractor shall use extreme caution not to damage the existing _____ inch water main due to minimal cover.

[ ] The Contractor shall coordinate his work such that no water customer will have their service disrupted more than two (2) times throughout the duration of this project.

[ ] Fire hydrant relocations shall conform to applicable sections of Item 809 of the Columbus Construction and Material Specifications. Work shall consist of removing the existing hydrant, installing new 6" pipe and fitting as required to locate the fire hydrant 2 feet from back of proposed curb or 8 feet off edge of pavement, resetting hydrant and blocking as required. All 6" pipe shall be installed at 4'-0" minimum cover. Hydrant extensions shall be provided per Item 810, as required. Relocated fire hydrants shall be adjusted to proper grade and faced in the proper direction. When a hydrant is relocated fifteen (15) feet or more from the "Typical Hydrant Setting" valve location (see L-6409 & L-6637), an additional valve shall be installed, and restrained, within two (2) feet of the relocated hydrant. Payment is to be included under Item 809, Fire hydrant relocated.

[ ] Relocated fire hydrants shall be put back in service as soon as possible. No two (2) adjacent fire hydrants shall be taken out of service concurrently.

[ ] If a lead water tap is encountered and is neither damaged nor part of a planned relocation/replacement, the Contractor shall report the presence of the lead tap to the Division of Water Distribution Maintenance Group at 614-645-7788.

[ ] If a lead tap is either damaged during construction or is part of a planned water tap relocation/replacement, the Contractor shall take the following steps:

1. If damaged, immediately contact Lew Flemister, Division of Water, (614-645-7028), to request the shut off of the existing curb stop. If Lew cannot be reached, contact The Division of Water Distribution Engineering Office at 614-645-7677 to request the shut off.
2. **Contractor shall expose the owner's side of the water service to confirm the material. The Inspector shall be present for this.**
3. If the customer's private service material is **lead**, stop work and notify the Division of Water Distribution Engineering Office (614-645-7677) immediately. If the material is **not lead**, the contractor shall replace the lead tap (from existing corporation stop to curb stop) and reinstate service to the customer. Partial repairs of the lead tap are **NOT** permitted.
4. Refer to Division of Water Standard Drawings L-7102C and L-9901 for information on water tap relocations, placing new curb stops, and relocating curb boxes.

[ ] Any work on the private water service line (between curb stop and meter) will require additional inspection by the Utility Meter Services Section. Contractor shall call 614-645-8276 to schedule inspection.

[ ] Site is located within the Wellfield Protection Area as established by Chapter 1115 of the City of Columbus Codes. As such, all construction activities must be done in compliance with Chapter 1115. For any questions, contact the Wellfield Protection Coordinator for the City of Columbus located at the Parsons Avenue Water Plant, 5600 Parsons Avenue, Lockbourne, Ohio 43137. Phone: (614) 645-3227; Email: reandrews@columbus.gov.