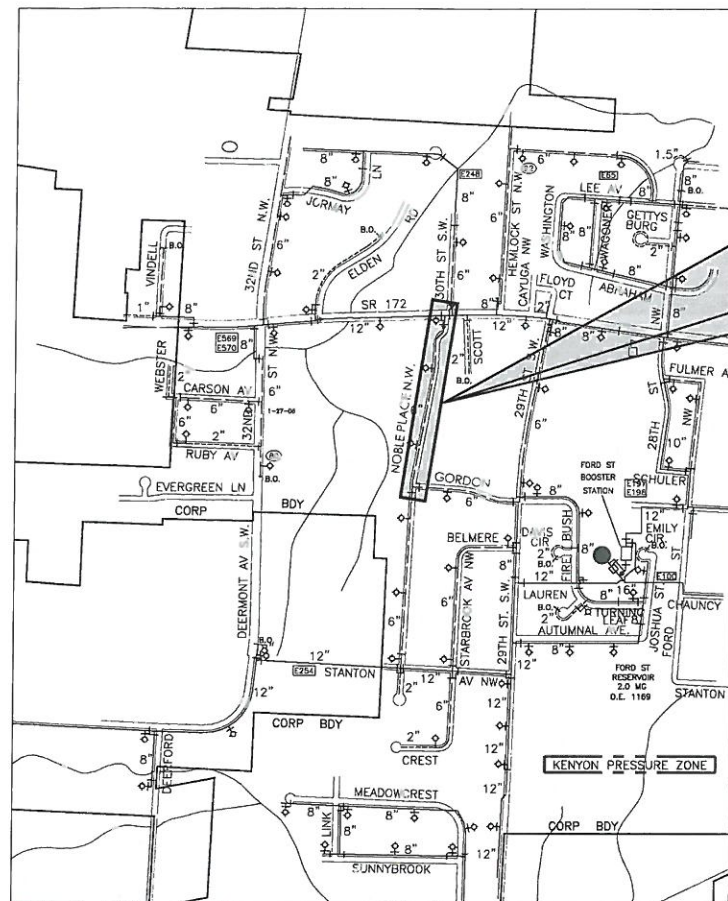




AQUA

AQUA OHIO, INC.
STARK DIVISION

NOBLE PLACE NW ~ 8" WATER LINE REPLACEMENT
CITY of MASSILLON, STARK COUNTY, OHIO
Contract No. 23020012642

PREPARED BY
THE SERVICE CENTER ENGINEERING DEPT.

LEGEND

WATER METER/SERVICE	W
WATER VALVE	W
EXISTING WATER LINE	W
PROPOSED WATER LINE	W
FIRE HYDRANT	W
GAS LINE	GAS
FENCE LINE	X
SANITARY SEWER	S
STORM SEWER	S
MANHOLES	M
CATCH BASIN	C.B.
BURIED TELE.	T
RIGHT-OF-WAY	R.O.W.
PROPERTY LINE	P.L.
POWER POLE	P
LIGHT POLE	L
GUY WIRE	G
PROPERTY PIN	P
PINE TREE	P
TREE	T
MAIL BOX	M

TABLE OF CONTENTS

DRAWING No.	DESCRIPTION
1a	TITLE AND APPROVALS
1b	WATER LINE DETAILS AND SPECS.
2A	NOBLE PLACE PLAN - STA. 0+00 - 6+50
2B	NOBLE PLACE PLAN - STA. 6+50 - 14+00
	STANDARD DETAILS

Registered Professional Engineer

Date

1" WATER SERVICE RECONNECTIONS (22 TO BE INSTALLED UNDER THIS CONTRACT)	
SHORT SIDE - 13	
CURB STOPS - 13	METER VAULTS -
LONG SIDE - 9	
CURB STOPS - 9	METER VAULTS -
8" D.I.P. Water Main - Approximately 1,400 L.F.	

LOCATOR MAP

N.T.S.

drawn	date	no.	date	revisions	by	file no.	drawing no.
checked	date						1a
approved	date						

APPROVALS

Aqua Ohio, Inc.	Date
	Date
	Date
	Date
	Date
	Date
	Date
	Date
	Date
	Date
	Date

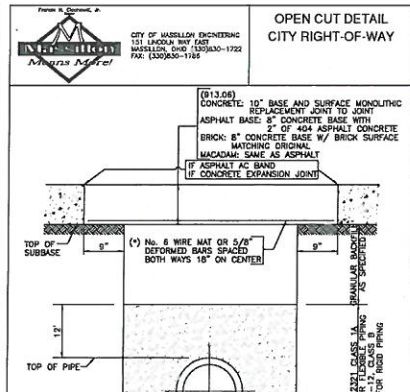
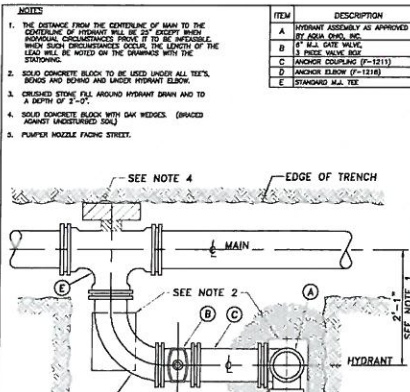
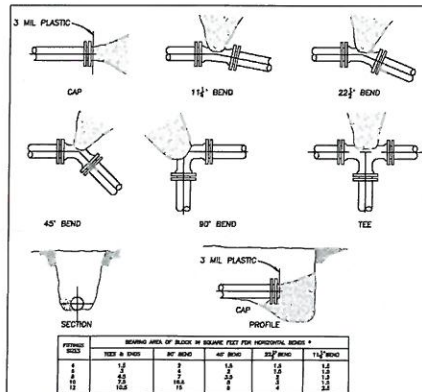
GENERAL CONSTRUCTION NOTES:

- PRE-CONSTRUCTION MEETING WILL BE SCHEDULED PRIOR TO CONSTRUCTION WITH ALL APPROVING AGENCIES INVITED.
- PRE-CONSTRUCTION VIDEO TAPE WILL BE MADE TO DOCUMENT EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE CROSSING OF RESIDENTIAL DRIVEWAYS TO MAINTAIN ACCESS.
- TRAFFIC CONTROL WILL CONFORM TO STATE AND LOCAL REGULATIONS.
- ALL ABANDONED VALVE BOXES AND HYDRANTS ARE TO BE REMOVED.
- ALL EXISTING SERVICES ARE TO BE TRANSFERRED TO NEW MAIN. ALL SERVICES TO BE RENEWED WITH 1" COPPER.
- SOIL CONDITIONS MAY REQUIRE ADDITIONAL FIELD-LOG GASKETS (TO BE DETERMINED BY INSPECTOR).
- ALL HYDRANTS, HYDRANT VALVES, AND CAPPING OF MAIN TO BE DONE BY CONTRACTOR AT COMPLETION OF SERVICE RENEWALS. REMOVING FIRE HYDRANTS TO INCLUDE REMOVAL OF VALVE, (PLUG TEE).
- A 72 HOUR NOTICE TO ALL RESIDENTS IS REQUIRED FOR NON EMERGENCY SHUT DOWNS.
- ALL TIES ARE TO BE COMPLETED AND EXISTING MAINS ARE TO BE CUT AND CAPPED ONCE PROPOSED MAIN HAS BEEN SUCCESSFULLY BACTERIA AND PRESSURE TESTED.
- CONTRACTOR TO USE CAUTION AS TO NOT DISTURB EXISTING PROPERTY PINS. IF PINS ARE DISTURBED THEY ARE TO BE RESET BY A SURVEYOR REGISTERED IN THE STATE OF OHIO.
- ALL CORNER SIDEWALK RAMPS THAT ARE REMOVED OR DISTURBED DURING WATER MAIN INSTALLATION SHALL BE REPLACED AS PER THE CITY OF MASSILLON SPECS. THAT IS USING CITY APPROVED A.D.A. TRUNCATED DOME SYSTEM. (SEE DETAIL THIS SHEET)

- ANY WORK THAT TAKES PLACE WITHIN THE CITY OF MASSILLON RIGHT-OF-WAY MUST HAVE A BACKFILL INSPECTION. CONTACT THE CITY OF MASSILLON ENGINEERING DEPT. AT 330-830-1722 TO SCHEDULE AN INSPECTION.
- ANY CONTRACTOR OF AQUA OHIO, INC. MUST BE LICENSED AND BONDED WITH THE CITY OF MASSILLON WHEN WORKING WITHIN THE CITY OF MASSILLON CORPORATION LIMITS. CONTACT THE CITY ENGINEERING DEPT. FOR REQUIREMENTS AT 330-830-1722.
- IF ANY EXISTING SIDEWALKS ARE DISBURBED OR BROKEN DURING CONSTRUCTION OF WATER MAIN, THE CONTRACTOR IS TO REPLACE SIDEWALK AS PER CITY OF MASSILLON AND JACKSON TWP. SPECS.

GENERAL WATERLINE INSTALLATION NOTES

- Contractor to provide line and grade stakes at 100' intervals for water main and for each fitting and appurtenance. A copy of cut sheet shall be provided to field inspector prior to installation.
- Water work shall not begin until areas of waterline construction are rough graded (within 1ft. of finished grade) and fill areas are completed and compacted.
- Once punch list items are completed, the builder shall be responsible for grade adjustments to water facilities at time of building construction and during final site grading.
- A minimum of 5 feet horizontal separation shall be maintained between utility conduit crossovers and waterline appurtenances, i.e. hydrants, valves, tees, etc.
- Water line materials and installation procedures shall meet or exceed all applicable A.W.W.A. standards including but not limited to the most recent versions of C600 and C651.
- Waterline material and installation procedures shall be in accordance with AQUA Ohio specifications. Pressure Class 350 D.I.P. polywrapped, fittings Class 53 cement lined polywrapped and HDPE tubing with compression fittings for domestic services. If polyethylene is used, a 12 gauge wire and metallic caution tape must be used.
- All pipe and appurtenances installed on a depressurized water main are to be wiped clean and all interior surfaces saturated with a minimum 1% chlorine solution.
- All mechanical joints are to be restrained using megalug or "Ford" equivalent. Fire line risers to include (2) 5/8" all thread rods extending from lower bend to riser flange.
- A restraint gasket (Field-Lok or approved equal) shall be utilized on push-on joints as required by AQUA Ohio standards.
- All ductile iron pipe and fittings to be polywrapped and taped as per Ductile Iron Pipe Research Association recommendations.
- Ductile iron in casing shall be Class 52, polywrapped and all push-on joints shall be equipped with restraint gaskets (Field-Lok or approved equal) and stainless steel casing spacers are required.
- All thrust blocking will be solid concrete blocks with oak wedges or poured concrete, per AQUA standards drawing.
- All valves are open right and need to be polywrapped. All main line valves are to be placed on a minimum of one 4" solid concrete block. All valves to have #57 limestone up to operating nut of valve.
- All fire hydrants to have a minimum of 1/2 cubic yard of #57 limestone 6" above drain hole or equivalent size bank run gravel. Plastic shall be placed over stone prior to backfill. All hydrants to be turned with nozzle facing street and meeting fire department specifications. Hydrants shall be self draining with 5" Storz connections.
- All valve box covers are to be painted blue. Contractor responsible for adjustments to valve boxes, curb boxes, and fire hydrants with respect to final grading. All valve boxes in new or proposed pavement shall be screw type.
- The contractor shall take precautionary measures to ensure safety of the public on and surrounding the site during construction.
- The location of existing utilities and structures, both above ground and underground are shown on the plans from data available at the time of the survey and are not necessarily complete and/or correct. The exact location and protection of existing utilities and structures is the responsibility of the contractor. During construction, the contractor shall use due diligence in protecting from damage all existing utilities and structures whether shown on plans or not. If damage is caused, the contractor shall be responsible for repair or restoration of same in accordance with the directions of the owner. The contractor shall contact Ohio Utilities Protection Service, at 1-800-362-2764, two working days prior to start of construction as required by Ohio law.
- The waterline shall be installed at 4' -0" of cover from existing/proposed grade to top of the waterline. This 4' shall be maintained unless otherwise noted.
- A minimum 10' -0" horizontal separation must be maintained between all storm and sanitary sewers and waterline, out to out.
- A minimum 18" vertical separation must be maintained between all storm and sanitary sewers and waterline, out to out.
- Driveway restoration shall be as follows: Concrete driveways will be replaced from the nearest existing joint to the street, full slab replacement. Asphalt driveways will be replaced from the farthest trench cut line to the street. Repairing only the trench width cut across a driveway only is not acceptable.
- The contractor shall visit the site to personally ascertain the nature of the work involved and thoroughly become familiar with the site prior to the submission of his or her bid.
- The contractor shall carefully layout the waterline and all related facilities to ensure that they are located within the public right-of-way and/or acquired easements as indicated.
- The contractor is responsible for restoring the site (yards, ditches, driveways, etc.) to its original or better condition upon completion of the waterline installation.
- The contractor may deflect the waterline as per manufacturer's specs with permission from Aqua as needed to maintain minimum horizontal and vertical separation distances.
- The contractor shall carefully preserve benchmarks, property corners, reference points, and stakes. Any benchmark, property corner, or survey marker damaged or disturbed by the contractor shall be reset by an Ohio registered professional surveyor at the contractors expense.
- All mail boxes, traffic control signs and advertising signs encountered during construction shall be replaced immediately after the water main has been installed and backfilled. Temporary signs to be used as needed.
- Booster pumps are not permitted on service connections.
- Water service line connections are not to be installed until pressure test and bacteria tests have been approved.
- The normal working pressure in water lines shall not be less than 35 psi.



AQUA OHIO, INC.

CONCRETE THRUST BLOCKING DETAILS

NOT TO SCALE

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OHIO Utilities Protection SERVICE

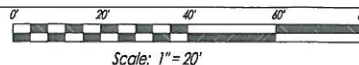
Call Before You Dig

1-800-362-2764

(48 hours prior to digging)

NOTE: This list does not supersede contract specifications and is intended only as a guideline to installing waterlines within the Aqua Ohio service area. Any questions specific to your project, should be discussed with the onsite inspector.

designed	L. McClary	date	May, 2014
drawn	L. McClary	date	May, 2014
background			



AQUA

PREPARED BY:
SERVICE CENTER-ENGINEERING DEPT.
6650 SOUTH AVE. BOARDMAN OHIO 44512

division
AQUA Ohio, Inc. - Stark

1b
2

NOBLE PLACE NW ~ 8" WATER LINE REPLACEMENT
City of Massillon, Stark County, Ohio

