

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC: OHIO EDISON/FIRST ENERGY
2600 ERIE STREET SOUTH
MASSILLON, OH 44646
ATTN: KEVIN McCLUSKY
MCCLUSKY@FIRSTENERGYCORP.COM
330.830.7083

GAS: DOMINION ENERGY OHIO
320 SPRINGSIDE DRIVE, SUITE 320
AKRON, OH 44333
ATTN: RICHARD HOUSEHOLDER
RELOCATION@DOMINIONENERGY.COM
330.664.2409

CABLE: MASSILLON CABLE TV (MCTV)
814 CABLE COURT NW
MASSILLON, OH 44647
ATTN: JEFF CAMPBELL
JCAMPBELL@MCTVOHIO.COM
330.833.4134 X116

WATER: AQUA OHIO, INC
870 THIRD STREET NW
MASSILLON, OH 44647
ATTN: JACOB FLANARY
JLFLANARY@AQUAAMERICA.COM
330.832.5764 X50650

TELEPHONE: AT&T LEGAL MANDATE
50 WEST BOWERY STREET, FLOOR 6
AKRON, OH 44308
ATTN: STEVE HYLTON
SH1513@ATT.COM
330.384.3055

SEWER, SIGNAL/LIGHTING CITY OF MASSILLON
401 WALNUT ROAD SE
MASSILLON, OH 44647
ATTN: LEE McBRIDE
LMCBRIDE@MASSILONOHIO.GOV
330.833.5746

AT&T REQUESTS THAT IF AN UNDERGROUND CONFLICT IS DISCOVERED DURING CONSTRUCTION THAT THE CONTRACTOR PROVIDE AT&T THREE (3) DAYS' NOTICE AND AN ADDITIONAL SEVEN (7) WORKING DAYS TO RESOLVE THE CONFLICT, WITH ALLOWANCE FOR ADDITIONAL TIME DEPENDING ON THE SEVERITY AND COMPLEXITY INVOLVED.

THE CROSSING OF DOMINION ENERGY OHIO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND THE EXISTING DOMINION ENERGY OHIO FACILITY. PLEASE CONTACT DOMINION'S CORROSION DEPARTMENT: DAVE CUTLIP (330-266-2121), RICK McDONALD (330-266-2122), OR AL HUMRICHOUER (330-478-3757).

THE UNDERGROUND UTILITIES ON THIS PLAN HAVE BEEN LOCATED BY USING A SUBSURFACE UTILITY ENGINEERING COMPANY [SUE]. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD MARKINGS AND WHAT THE PLAN INDICATES, PLEASE CONTACT MATTHEW STEELE, DISTRICT UTILITY COORDINATOR 330-786-4832, PRIOR TO ANY SUBSURFACE WORK BEING INITIATED.

EXISTING PLANS

EXISTING PLANS ENTITLED STA-241-(8.83-10.42), STA-241-7.94, AND WALES RD. (S.R. 241) AND HILLS AND DALES RELOCATION MAY BE INSPECTED IN THE ODOT DISTRICT 4 OFFICE IN AKRON.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

CONSTRUCTION COORDINATION WITH UTILITY WORK

NO COMPENSABLE DELAYS WILL BE CONSIDERED DUE TO UTILITY RELOCATION INTERFERENCE. TO AVOID CONSTRUCTION DELAY DUE TO UTILITY CONSTRUCTION/RELOCATION, THE CONTRACTOR SHALL WORK IN AN AREA NOT AFFECTED BY ONGOING UTILITY WORK, AS APPROVED BY THE ENGINEER.



CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF SUNSET AND 7:00AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PRIVATE-USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT, AT MAXIMUM OPERATING HEIGHT, SHALL EXCEED A HEIGHT OF 50 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, COORDINATION WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS OR HELIPORTS, COORDINATE WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

GAINEY HELIPORT
ODELL W. GAINEY
1900 ERIE N
MASSILLON, OH 44646
(216) 832-8395

AFFINITY MEDICAL CENTER
HELIPORT
875 8TH STREET NE
MASSILLON, OH 44646
(330) 832-8761

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 4 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: RTK ODOT VRS
(PER 2016 ODOT SPEC.)
MONUMENT TYPE: TYPE B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE,
NORTH ZONE (3401)
COMBINED SCALE FACTOR: 1.00009465
ORIGIN OF COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

CONSTRUCTION STAGING

CONTRACTOR EQUIPMENT AND MATERIAL STORAGE SHALL BE LIMITED TO:

1. THE CITY OF MASSILLON PROPERTY ON THE EAST SIDE OF WALES ROAD NE ADJACENT TO HILLS AND DALES ROAD NE. SEE TEMPORARY CONSTRUCTION FENCE NOTE ON THIS SHEET FOR ADDITIONAL DETAILS.
2. AN OFF-SITE STAGING AREA, THE CITY OF MASSILLON PARK MAINTENANCE FACILITY LOT, IS LOCATED AT STATE AVENUE NE AND RESERVOIR DRIVE NE. THIS AREA IS FENCED. THE GATES SHALL BE LOCKED AT THE END OF EACH WORK DAY. THE CITY SHALL PROVIDE THE CONTRACTOR WITH A KEY. ALL WASHOUT WORK SHALL BE RESTRICTED TO THE OFF-SITE STAGING AREA.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

TEMPORARY CONSTRUCTION FENCE

THE CONTRACTOR SHALL PLACE A CONSTRUCTION FENCE AROUND THE STAGING AREA ON CITY PROPERTY AT THE HILLS AND DALES ROAD NE INTERSECTION AREA UTILIZING FENCES AND GATES THROUGHOUT THE DURATION OF CONSTRUCTION. THE TEMPORARY CONSTRUCTION FENCE AND GATES SHALL BE SIX FEET (6') HIGH CHAIN LINK, INCLUDING A GATE FOR CONTRACTOR ACCESS. THE GATES SHALL BE LOCKED AT THE END OF EACH WORK DAY. THREE (3) KEYS SHALL BE PROVIDED TO THE CITY.

THE CONTRACT UNIT PRICE FOR FENCE, MISC.: TEMPORARY CONSTRUCTION FENCE WITH GATE SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, HARDWARE, WARNING SIGNS, AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK. THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY AND IS TO BE USED AS DIRECTED BY THE ENGINEER:

607, FENCE, MISC.: TEMPORARY
CONSTRUCTION FENCE WITH GATE 400 FT

CLEARING AND GRUBBING

MANY TREES AND STUMPS SHOWN ON THESE PLANS HAVE BEEN REMOVED PRIOR TO THE START OF CONSTRUCTION. REMOVE ALL REMAINING TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. REMOVAL ITEMS SHOWN ON THE RIGHT OF WAY PLAN THAT ARE NOT SPECIFICALLY ITEMIZED FOR REMOVAL SHALL BE INCIDENTAL TO ITEM 201, CLEARING AND GRUBBING.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	1,927 CY
659, REPAIR SEEDING AND MULCHING	868 SY
659, INTER-SEEDING	868 SY
659, COMMERCIAL FERTILIZER	2.34 TON
659, LIME	3.59 ACRES
659, WATER	96 MGAL

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS. FOR SEEDING AND MULCHING QUANTITIES SEE SHEET 80. THE ABOVE QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS LUMP SUM ITEM INCLUDES ALL WORK, LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS TO REMOVE AND DISPOSE OF THE EXISTING LEANING RETAINING WALL BETWEEN STA. 103+72 TO STA. 103+86, LT ON SR 241.

WORK NEAR BUILDING FACES

THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR BUILDING FACES.

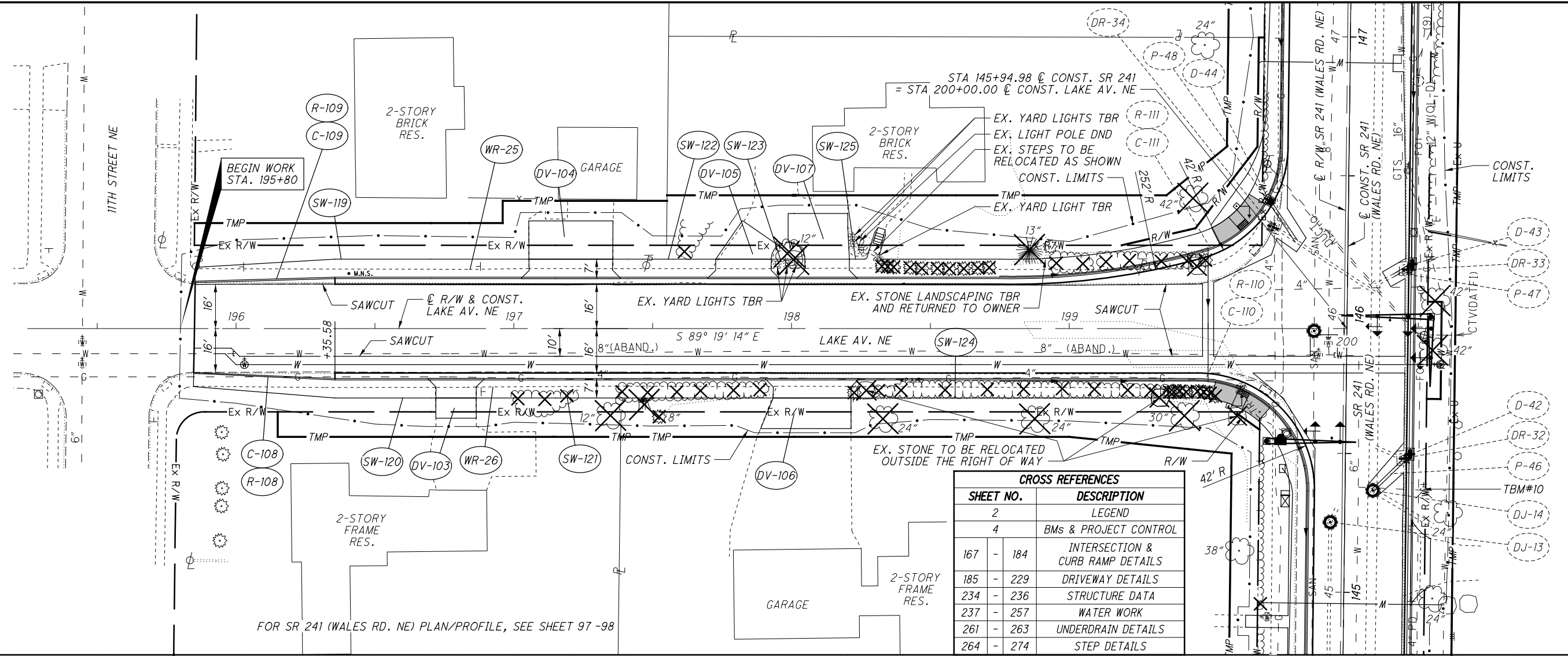
1 ADDENDUM 1 03/31/21

CALCULATED
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GENERAL NOTES

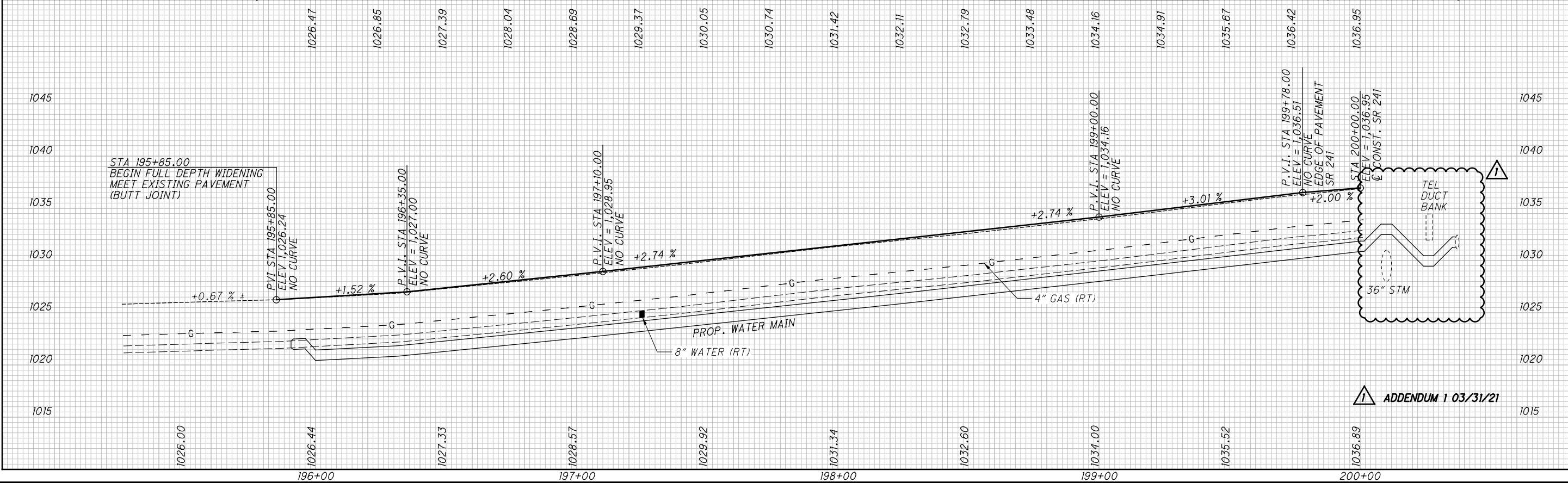
STA - 241 - 9.71

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395



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
2	LEGEND
4	BMS & PROJECT CONTROL
167 - 184	INTERSECTION & CURB RAMP DETAILS
185 - 229	DRIVEWAY DETAILS
234 - 236	STRUCTURE DATA
237 - 257	WATER WORK
261 - 263	UNDERDRAIN DETAILS
264 - 274	STEP DETAILS

FOR SR 241 (WALES RD. NE) PLAN/PROFILE, SEE SHEET 97-98

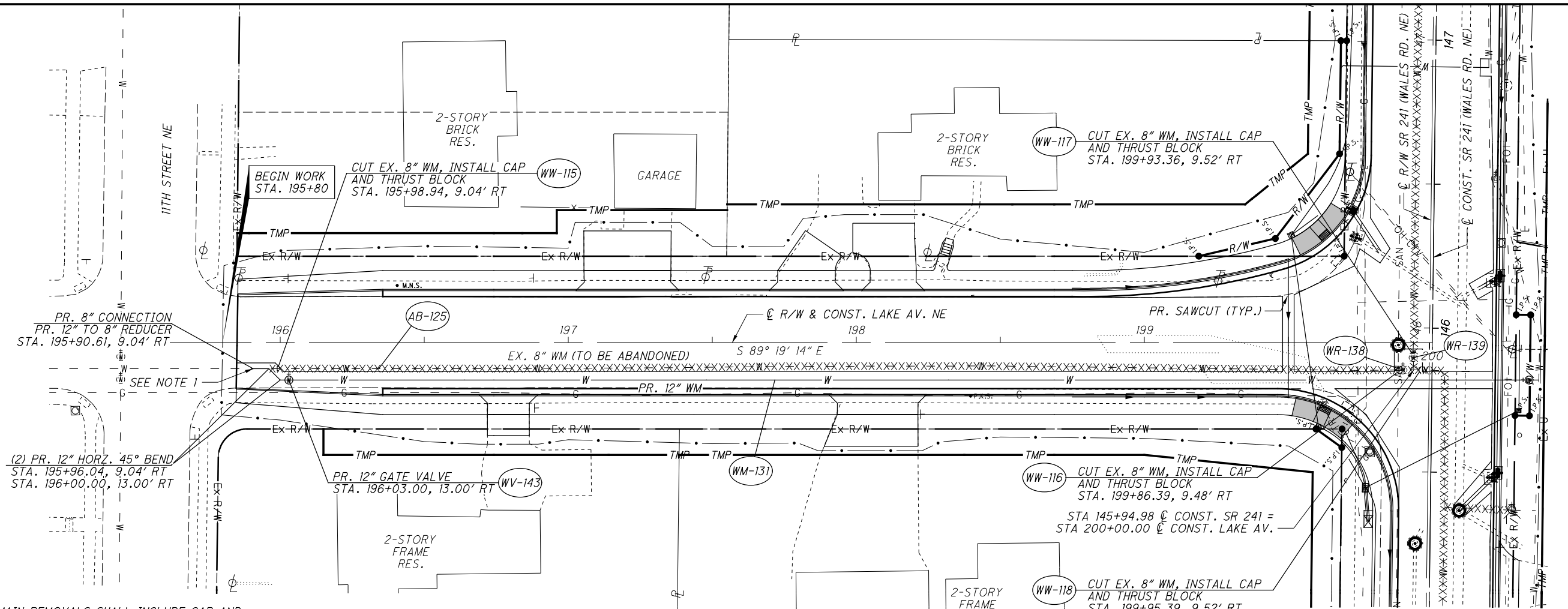


ADDENDUM 1 03/31/21



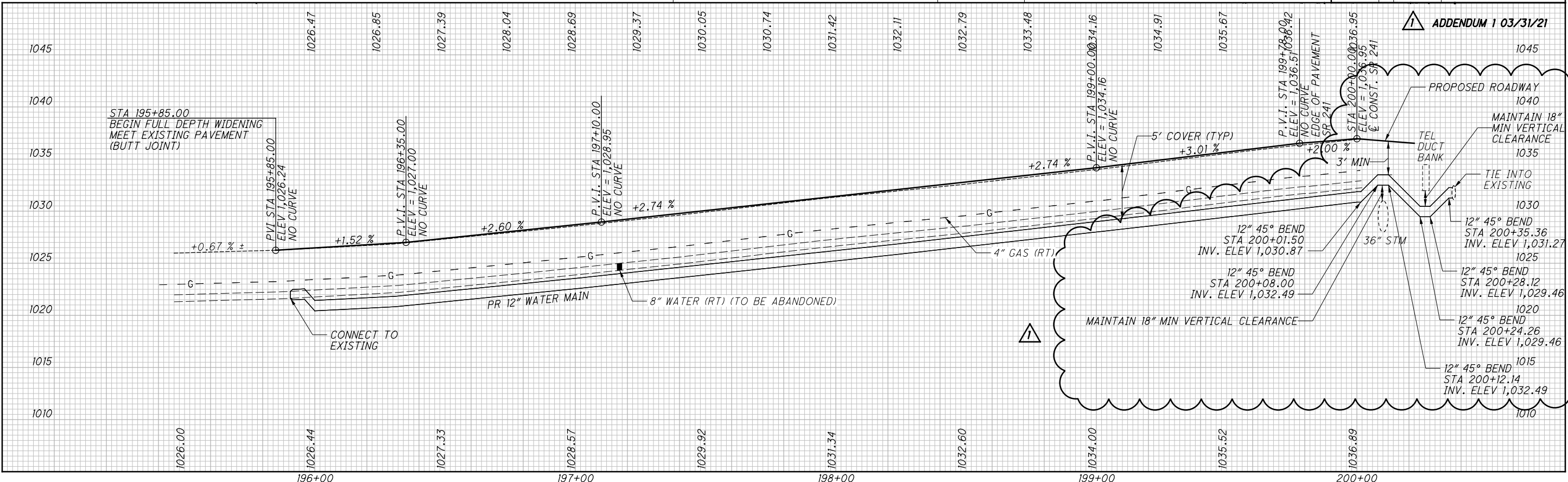
PLAN AND PROFILE - LAKE AV. NE
BEGIN TO END

STA-241-9.71

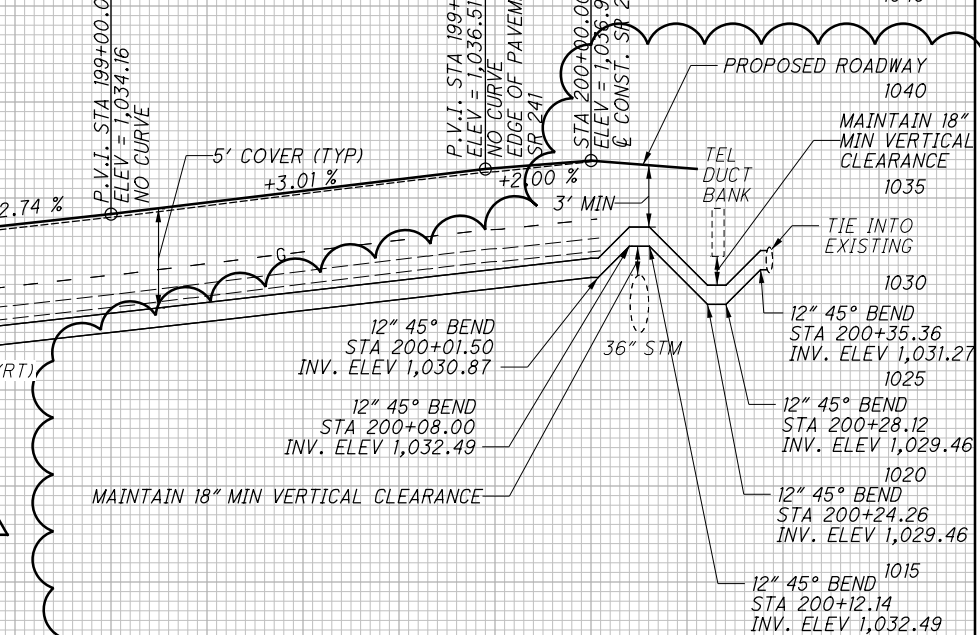


- NOTES:
1. WATER MAIN REMOVALS SHALL INCLUDE CAP AND THRUST BLOCKS ON THE ABANDONED MAIN.
 2. HYDRANT REMOVAL SHALL INCLUDE REMOVAL OF EXISTING HYDRANT, 6" WATER MAIN, TEE, 6" GATE VALVE, AND 2 PLUGS FOR THE ABANDONED WATER MAIN (TYP).
 3. WATER SERVICE LATERALS ARE SHOWN AS A GRAPHICAL REPRESENTATION ONLY. ACTUAL LOCATIONS TO BE DETERMINED PRIOR TO CONSTRUCTION.

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
237	WATER WORK LEGEND
108 - 162	CROSS SECTIONS



ADDENDUM 1 03/31/21



GENERAL CONSTRUCTION NOTES:

1. PRE-CONSTRUCTION MEETING WILL BE SCHEDULED PRIOR TO CONSTRUCTION WITH ALL APPROVING AGENCIES INVITED.
2. PRE-CONSTRUCTION VIDEOTAPE WILL BE MADE TO DOCUMENT EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO THE WATER MAIN WORK.
3. THE CONTRACTOR SHALL COORDINATE THE CROSSING OF RESIDENTIAL DRIVEWAYS TO MAINTAIN ACCESS.
4. TRAFFIC CONTROL WILL CONFORM TO STATE AND LOCAL REGULATIONS.
5. CONTRACTOR WILL PROVIDE AQUA WITH A SET OF AS BUILT DRAWINGS ONCE ALL WATER WORK RELATED WORK IS COMPLETED. THIS WILL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM SPECIAL, AS-BUILT CONSTRUCTION PLANS.

WHEN A LEAD WATER SERVICE IS UNCOVERED (CUSTOMER'S OR AQUA'S), THE CONTRACTOR SHALL NOTIFY THE AQUA CONSTRUCTION INSPECTOR FOR COORDINATION OF WORK.

PROHIBITION ON USING CUT-OFF SAWS. CONTRACTOR IS PROHIBITED FROM USING CUT-OFF SAWS TO PERFORM SERVICES FOR AQUA WHILE IN THE EXCAVATION TRENCH. A CUT-OFF SAW IS A POWER TOOL WHICH IS TYPICALLY USED TO CUT HARD MATERIALS, SUCH AS METALS. THE CUTTING ACTION IS PERFORMED BY AN ABRASIVE DISC, SIMILAR TO A GRINDING WHEEL OR A DIAMOND TIP STEEL BLADE. THESE TYPES OF SAWS CAN BE GASOLINE, HYDRAULIC OR PNEUMATIC POWERED. THIS TYPE OF SAW IS SOMETIMES REFERRED TO AS A DEMO SAW.

ENVIRONMENTAL WORK INVOLVING PETROLEUM CONTAMINATED SOILS AND GROUNDWATER

ENVIRONMENTAL STUDIES HAVE SHOWN THAT PETROLEUM-CONTAMINATED MATERIALS WILL BE ENCOUNTERED IN EXCAVATIONS ON OR ABUTTING THE PROPERTY AT 145 WALES ROAD (STA. 104+84 TO STA. 104+99), WHICH IS IN THE AREA OF CUT FOR WATER MAIN CONSTRUCTION. THE FOLLOWING QUANTITIES ARE INCLUDED FOR PAYMENT BY AQUA OHIO FOR REMEDIATION OF PETROLEUM CONTAMINATED SOILS AND GROUNDWATER. SEE THE PLAN NOTE ON SHEET 14 FOR A COMPLETE DESCRIPTION AND PAYMENT FOR THE WORK.

SPECIAL, WORK INVOLVING PETROLEUM CONTAMINATED SOILS	4 TON
690, WORK INVOLVING REGULATED WATER	50 GAL
690, WORK INVOLVING WATER	50 GAL

GENERAL WATERLINE INSTALLATION NOTES

1. 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. THIS WORK IS TO BE INCIDENTAL TO ALL PERTAINING ITEM 638 PAY ITEMS.
2. WATER WORK SHALL NOT BEGIN UNTIL AREAS OF WATERLINE CONSTRUCTION ARE ROUGH GRADED (WITHIN 1 FT. OF FINISHED GRADE AND FILL AREAS ARE COMPLETED AND COMPACTED.)
3. NO WATER SERVICE CONNECTIONS TO ANY BUILDINGS SHALL BE PERMITTED PRIOR TO FINAL ACCEPTANCE BY AQUA OHIO, INC. WHICH SHALL INCLUDE APPROVED RECTIFICATION OF ALL PUNCH LIST ITEMS. 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.
4. A MINIMUM OF 5 FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN UTILITY CONDUIT CROSSOVERS AND WATERLINE APPURTENANCES, I.E. HYDRANTS, VALVES, TEES, ETC.
5. 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.
6. WATERLINE MATERIAL AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH AQUA OHIO SPECIFICATIONS. CLASS 52 D.I.P. POLYWRAPPED, FITTINGS CLASS 53 CEMENT LINED POLYWRAPPED AND 1" K COPPER TUBING WITH COMPRESSION FITTINGS FOR DOMESTIC SERVICES OR 2" HDPE SDR 9 POLYETHYLENE 3408 PIPE AROUND CUL-DE-SAC. IF POLYETHYLENE IS USED, A 12 GAUGE WIRE AND METALLIC CAUTION TAPE MUST BE USED.
7. 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.
8. 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.
9. A RESTRAINT GASKET (FIELD-LOK OR APPROVED EQUAL) SHALL BE UTILIZED ON PUSH-ON JOINTS AS REQUIRED BY AQUA OHIO STANDARDS.
10. ALL DUCTILE IRON PIPE AND FITTINGS TO BE POLYWRAPPED AND TAPED AS PER DUCTILE IRON PIPE RESEARCH ASSOCIATION RECOMMENDATIONS.

ITEM SPECIAL & 638 - PAY ITEMS

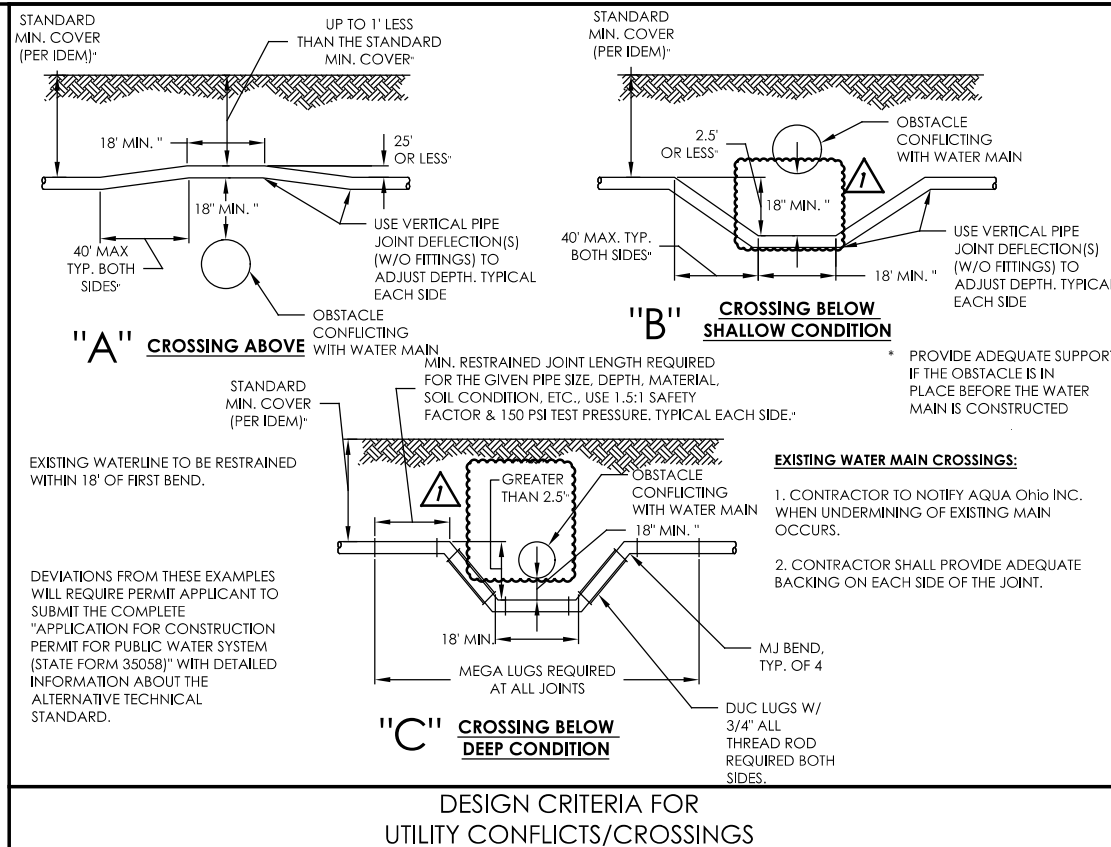
ALL ITEM SPECIAL & 638 PAY ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH ITEM 638 IN THE CMS, EXCEPT AS MODIFIED HEREIN.

AQUA OHIO WILL PROVIDE ALL WATER MAIN PIPE, FIRE HYDRANTS AND ASSEMBLY, 6" HYDRANT VALVES, AND WATER MAIN GATE VALVES TO THE CONTRACTOR AT NO ADDITIONAL COST. THIS AFFECTS THE FOLLOWING PAY ITEMS:

- SPECIAL, 6" WATER MAIN DIP CLASS 52 PUSH ON JOINTS AND FITTINGS
- SPECIAL, 8" WATER MAIN DIP CLASS 52 PUSH ON JOINTS AND FITTINGS
- SPECIAL, 12" WATER MAIN DIP CLASS 52 PUSH ON JOINTS AND FITTINGS
- 638, WATER WORK, MISC.: 14" WATER MAIN DIP CLASS 52 PUSH ON JOINTS AND FITTINGS
- SPECIAL, 16" WATER MAIN DIP CLASS 52 PUSH ON JOINTS AND FITTINGS
- SPECIAL, 6" GATE VALVE WITH VALVE BOX
- SPECIAL, 8" GATE VALVE WITH VALVE BOX
- SPECIAL, 12" GATE VALVE WITH VALVE BOX
- SPECIAL, 16" GATE VALVE WITH VALVE BOX
- SPECIAL, 8"x8" TAPPING SLEEVE, VALVE AND VALVE BOX
- 638, WATER WORK, MISC.: 14"x12" TAPPING SLEEVE, VALVE AND VALVE BOX
- SPECIAL, 16"x6" TAPPING SLEEVE, VALVE AND VALVE BOX
- SPECIAL, 16"x8" TAPPING SLEEVE, VALVE AND VALVE BOX
- SPECIAL, 16"x12" TAPPING SLEEVE, VALVE AND VALVE BOX
- 638, WATER WORK, MISC.: 18"x6" TAPPING SLEEVE, VALVE AND VALVE BOX
- 638, WATER WORK, MISC.: 18"x8" TAPPING SLEEVE, VALVE AND VALVE BOX
- 638, WATER WORK, MISC.: 20"x8" TAPPING SLEEVE, VALVE AND VALVE BOX
- SPECIAL, 6" FIRE HYDRANT

COST FOR ALL WORK, LABOR, EQUIPMENT, AND ANY INCIDENTAL MATERIALS, INCLUDING FITTINGS, BENDS, TEES, CROSSES, MECHANICAL JOINT RESTRAINTS, TAPPING SLEEVES, VALVE BOXES, ETC. SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THESE ITEMS. THE AQUA SUPPLIED MATERIALS WILL BE AVAILABLE FOR CONTRACTOR PICK-UP FROM THE FOLLOWING LOCATION:

D.I. PIPE WILL BE DELIVERED TO JOB SITE YARD. CONTRACTOR TO UNLOAD. VALVES AND HYDRANTS TO BE PICKED UP BY CONTRACTOR AT 870 3RD ST. NW, MASSILLON, OH.



DESIGN CRITERIA FOR UTILITY CONFLICTS/CROSSINGS

ADDENDUM 1 03/31/21

11. 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.
12. ALL THRUST BLOCKING WILL BE SOLID CONCRETE BLOCKS WITH OAK WEDGES OR POURED CONCRETE, PER AQUA STANDARDS DRAWING.
13. ALL VALVES ARE OPEN RIGHT AND 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.
14. 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 4-1/2" NOZZLE FACING STREET WITH 5" STORZ FITTING AND MEETING FIRE DEPARTMENT SPECIFICATIONS.
15. ALL VALVE BOX COVERS ARE TO BE PAINTED BLUE. CONTRACTOR IS 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.
16. WATERLINE WILL NOT BE ACCEPTED OR PLACED IN SERVICE UNTIL CONTRACTOR CONDUCTS AND OBTAINS SATISFACTORY RESULTS OF PRESSURE AND CHLORINE TESTS. BACTERIA TEST WILL THEN BE CONDUCTED BY AQUA OHIO. ALL VALVES, HYDRANTS, AND CURB BOXES ARE TO BE AT PROPER GRADE PRIOR TO ACCEPTANCE.
17. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO ENSURE SAFETY OF THE PUBLIC ON AND SURROUNDING THE SITE DURING CONSTRUCTION.
18. 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.
19. 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.
20. A MINIMUM 10'-0" HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN ALL STORM AND SANITARY SEWERS AND WATERLINE, OUT TO OUT.
21. A MINIMUM 18" VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL STORM AND SANITARY SEWERS AND WATERLINE, OUT TO OUT.
22. 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.
23. 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.
24. 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.
25. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE SITE (YARDS, DITCHES, DRIVEWAYS, ETC.) TO ITS ORIGINAL OR BETTER CONDITION UPON COMPLETION OF THE WATERLINE INSTALLATION.
26. 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.
27. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, AND 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.
28. 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.
29. WATER SERVICE LINE CONNECTIONS ARE NOT TO BE INSTALLED UNTIL PRESSURE TEST AND BACTERIA TESTS HAVE BEEN APPROVED.
30. THE NORMAL WORKING PRESSURE IN WATER LINES SHALL NOT BE LESS THAN 35 PSI.
31. COMPACTION TESTING REQUIREMENTS AS PER ITEM 611.06 AND CONSTRUCTION INSPECTION FORMS SUBMITTALS AS PER ITEM 611.04.C APPLY AND INCIDENTAL TO ANY PERTAINING ITEM 638 WATER WORK PAY ITEM.

NOTE: THIS LIST DOES NOT SUPERCEDE 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.

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WATER WORK - AQUA DETAILS

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