

WATER QUALITY

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

ITEM 611 - 10' x 8' CONDUIT, TYPE A, 706.05, AS PER PLAN

THIS ITEM SHALL BE CONSTRUCTED IN CONFORMANCE WITH ITEM 611, EXCEPT THAT THE CONDUIT SHALL BE CAST-IN PLACE.

ITEM 611 - DRAINAGE STRUCTURE MISC.: UNDERGROUND DETENTION STORAGE 1

ITEM 611 - DRAINAGE STRUCTURE MISC.: UNDERGROUND DETENTION STORAGE 2

ITEM 611 - DRAINAGE STRUCTURE MISC.: UNDERGROUND DETENTION STORAGE 3

THESE ITEMS SHALL CONSIST OF FURNISHING AND INSTALLING UNDERGROUND DETENTION STORAGE SYSTEMS AT THE LOCATIONS SHOWN IN THE PLANS AND PER THE DETAILS SHOWN ON SHEETS 695-705. THE CONTRACTOR IS RESPONSIBLE TO FURNISH ALL LABOR, MATERIALS (INCLUDING BUT NOT LIMITED TO EXCAVATION, BEDDING, AND BACKFILL REQUIREMENTS), INSTALLATION PLANS, INSPECTIONS, REPORTS, AND EQUIPMENT NECESSARY IN ACCORDANCE WITH ODOT CMS ITEM 611 AND THE MANUFACTURERS SPECIFICATIONS.

THE UNDERGROUND DETENTION STORAGE SYSTEMS SHALL BE PIPE CONDUIT, CONCRETE VAULT, OR STORMTECH MC-4500 CHAMBER SYSTEM, OR AN APPROVED EQUIVALENT. EACH SYSTEM SHALL INCLUDE AN INSPECTION MANHOLE AT NO ADDITIONAL COST. THIS INSPECTION MANHOLE SHALL BE LOCATED NEAR THE OUTLET END OF THE SYSTEM AND SHALL BE NO MORE THAN 20 FEET FROM THE EDGE OF PAVEMENT

ALL HEADER SYSTEMS, END CAPS, AND LENGTH OF PIPE FROM STORAGE UNIT TO THE OUTLET CONTROL STRUCTURE SHALL BE INCLUDED AT NO ADDITIONAL COST.

UNDERGROUND STORAGE 1 MUST PROVIDE 16880 CUBIC FEET OF STORAGE.

UNDERGROUND STORAGE 2 MUST PROVIDE 7552 CUBIC FEET OF STORAGE.

UNDERGROUND STORAGE 3 MUST PROVIDE 7613 CUBIC FEET OF STORAGE.

THE FOLLOWING STRUCTURES ARE THE OUTLET CONTROLLING STRUCTURES FOR THE UNDERGROUND DETENTION SYSTEMS, REGARDLESS OF WHICH ALTERNATE IS SELECTED:

- UNDERGROUND STORAGE 1 - D-201B, STA. 126+22.91, 47.33' LT.
- UNDERGROUND STORAGE 2 - D-88B STA. 177+54.13, 78.43' LT.
- UNDERGROUND STORAGE 3 - D-195A STA. 174+94.06, 56.42' RT.

THESE STRUCTURES CANNOT BE CHANGED WITHOUT APPROVAL BY THE ENGINEER. SEE SHEETS 695-705 FOR STRUCTURE DETAILS.

THE CONTRACTOR IS RESPONSIBLE FOR ALL SHOP DRAWING SUBMITTALS THAT ILLUSTRATE CONFORMANCE WITH THE PLANS AS WELL AS THE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT VERIFICATIONS, SIGNED AND STAMPED BY AN OHIO LICENSED ENGINEER, THAT THE DETENTION STORAGE VOLUME WAS MET.

ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, SHALL BE INCLUDED IN THE CONTRACT PRICE BID FOR:

ITEM 611 - DRAINAGE STRUCTURE MISC.: UNDERGROUND DETENTION STORAGE

ITEM 611 - MANHOLE, NO. 3, AS PER PLAN "A"

THE OUTLET CONTROL STRUCTURE MANHOLES SHALL BE CONSTRUCTED IN CONFORMANCE WITH ITEM 611 AND STANDARD CONSTRUCTION DRAWING MH-1.2, EXCEPT THAT THE WORK SHALL ALSO CONSIST OF THE INSTALLATION OF AN INTERNAL WEIR WALL WITH ORIFICES AND TOP OF WALL LOCATIONS AS SPECIFIED ON THE OUTLET CONTROL STRUCTURE DETAILS.

MAINTENANCE OF MANUFACTURED SYSTEMS AND UNDERGROUND DETENTION SYSTEMS

REGULAR MAINTENANCE/VACUUMING OF THE WATER QUALITY AND DETENTION STRUCTURES IS NECESSARY FOR THESE STRUCTURES TO FUNCTION AS DESIGNED. LOCATIONS FOR MAINTENANCE VEHICLE ACCESS FOR EACH SYSTEM ARE SHOWN ON SHEETS 695 - 705 .

THE CONTRACTOR SHALL PROVIDE THE OWNER WITH ALL MAINTENANCE AND INSPECTION MANUALS FOR ANY PROPRIETY SYSTEM UTILIZED AS PART OF THIS PROJECT.

THE WATER QUALITY OUTLET ON THE OUTLET CONTROL STRUCTURE FOR EACH DETENTION SYSTEM SHALL BE INSPECTED AND UNCLOGGED EVERY 6 MONTHS.

MANUFACTURED WATER QUALITY STRUCTURE

THIS PLAN UTILIZES MANUFACTURED WATER QUALITY STRUCTURES FOR WATER QUALITY TREATMENT. AREAS HAVE BEEN SHOWN IN THE PLANS FOR PLACEMENT OF OFF-LINE SYSTEMS. PAYMENT FOR THESE DEVICES SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR ITEM 895, MANUFACTURED WATER QUALITY STRUCTURE, TYPE 2, ITEM 895, MANUFACTURED WATER QUALITY STRUCTURE, TYPE 3 AND ITEM 895, MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4.

	LOCATION	TYPE
WATER QUALITY 1	STA. 125+00	4
WATER QUALITY 2	STA. 175+96.06	2
WATER QUALITY 3	STA. 41+68.63 (N.FRONTAGE)	3

SANITARY SEWER

MEDINA COUNTY SANITARY SEWER NOTES

ALL SEWER WORK ITEMS AND CONSTRUCTION SHALL CONFORM TO ODOT ITEM 611 AND THE MEDINA COUNTY STANDARD DETAILS. WHERE THERE IS CONTRADICTION, THE MEDINA COUNTY STANDARD DETAILS WILL TAKE PRECEDENCE.

**ITEM 611 - MANHOLE ADJUSTED TO GRADE (SANITARY)
ITEM 611 - MANHOLE RECONSTRUCTED TO GRADE (SANITARY)**

ALL SANITARY SEWER MANHOLE CONSTRUCTION, ADJUSTMENT AND RECONSTRUCTED SHALL CONFORM TO ODOT ITEM 611, ODOT STANDARD CONSTRUCTION DRAWINGS MH-1.2 AND MH-3.1 (DROP PIPE DETAILS) EXCEPT AS MODIFIED BY THE MEDINA COUNTY SANITARY SEWER STANDARDS AS SHOWN ON SHEET 54 WITH THE FOLLOWING MODIFICATIONS:

BY THIS NOTE, ALL SANITARY OR COMBINED SEWER MANHOLES SHALL BE EPOXY COATED.

UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS

FURNISH A CONTINUANCE FOR ALL UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS SUCH AS SANITARY, WASTE-WATER, CURTAIN/ GRADIENT DRAINS, AND FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. FURNISH AN UNOBSERVED CONTINUANCE OF THE UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS TO THE SATISFACTION OF THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT. ALL SANITARY AND SANITARY WASTE-WATER CONTINUANCE MAY ALSO REQUIRE A NPDES PERMIT FROM THE OHIO ENVIRONMENTAL PROTECTION AGENCY. REPORT ALL CONTINUANCE TO THE LOCAL HEALTH DEPARTMENT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.42, 707.43, 707.44, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35, 706.01, 706.02, OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

ITEM 611	6" CONDUIT, TYPE B, FOR SANITARY	200 FT.
ITEM 611	6" CONDUIT, TYPE C, FOR SANITARY	200 FT.

WATER WORK

CITY OF MEDINA WATER WORK

ALL WATER WORK ITEMS AND CONSTRUCTION SHALL CONFORM TO ODOT ITEM 638 AND THE CITY OF MEDINA CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHERE THERE IS CONTRADICTION, THE CITY OF MEDINA SPEC. WILL TAKE PRECEDENCE SEE SHEETS 43 - 53, 753 - 754 FOR DETAILS. THE CONTRACTOR SHALL HAVE A COPY OF THE CURRENT EDITION OF THE CITY OF MEDINA CONSTRUCTION AND MATERIAL SPECIFICATIONS ON SITE FOR REFERENCE AT ALL TIMES DURING CONSTRUCTION. IF THE CONTRACTOR DOES NOT HAVE A COPY OF THE CURRENT EDITION OF THE CITY OF MEDINA CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE CONTRACTOR SHALL PURCHASE A COPY FROM THE CITY OF MEDINA. THE PURCHASE OF THE CITY OF MEDINA CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL BE CONSIDERED INCIDENTAL.

FOR PURPOSES OF PAYMENT, ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO INSTALL ANY AND ALL WATER WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE ITEMS LISTED BELOW:

ITEM SPECIAL - 8" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS (FT) (CITY OF MEDINA)

ITEM SPECIAL - 12" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS (FT) (CITY OF MEDINA)

ITEM SPECIAL - 8" GATE VALVE WITH VALVE BOX (EACH) (CITY OF MEDINA)

ITEM SPECIAL - 12" GATE VALVE WITH VALVE BOX (EACH) (CITY OF MEDINA)

ITEM SPECIAL - 8" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (EACH) (CITY OF MEDINA)

ITEM SPECIAL - 12" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (EACH) (CITY OF MEDINA)

ITEM SPECIAL - CUT AND PLUG EXISTING 24" WATER LINE (EACH) (CITY OF MEDINA)

ITEM SPECIAL - FIRE HYDRANT SERVICE LINE EXTENDED AND ADJUSTED TO GRADE (EACH) (CITY OF MEDINA)

ITEM SPECIAL - FIRE HYDRANT AND GATE VALVE REMOVED AND RESET (EACH) (CITY OF MEDINA)

ITEM 638 - WATER WORK, MISC.: WATER SERVICE CONNECTION, "EXTENSION" (EACH) (CITY OF MEDINA)

ITEM 638 - WATER WORK, MISC.: WATER SERVICE CONNECTION, "RECONNECTION" (EACH) (CITY OF MEDINA)

ITEM 638 - FIRE HYDRANT ADJUSTED TO GRADE (EACH)

ITEM 638 - VALVE BOX ADJUSTED TO GRADE (EACH)

ITEM 638 - SERVICE BOX ADJUSTED TO GRADE (EACH)

ITEM SPECIAL - 6" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (FT) (MEDINA COUNTY)

IN ADDITION TO THE STANDARDS DESCRIBED IN THE 'MEDINA COUNTY WATER WORK' NOTE, RESTRAINED POLYVINYL CHLORIDE PIPE C-900 SHALL BE INSTALLED BEFORE AND AFTER EACH BEND/FITTING.

ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO INSTALL THE ABOVE DESCRIBED ITEM SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR ITEM SPECIAL - 6" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (FT) (MEDINA COUNTY).

PRE-CONSTRUCTION NOTIFICATION REQUIRED (MEDINA COUNTY OR CITY OF MEDINA WATER)

THE CONTRACTOR SHALL CONTACT THE MEDINA COUNTY SANITARY ENGINEERING DEPARTMENT OR THE CITY OF MEDINA WATER DEPARTMENT PRIOR TO STARTING ANY WORK ON THE CORRESPONDING WATER SYSTEM.

MEDINA COUNTY WATER WORK

ALL WATER WORK ITEMS AND CONSTRUCTION SHALL CONFORM TO ODOT ITEM 638 AND THE MEDINA COUNTY CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHERE THERE IS CONTRADICTION, THE MEDINA COUNTY SPEC. WILL TAKE PRECEDENCE, SEE SHEET 54 FOR NOTES AND SHEETS 752 & 755 FOR DETAILS. THE CONTRACTOR SHALL HAVE A COPY OF THE CURRENT EDITION OF THE MEDINA COUNTY CONSTRUCTION AND MATERIAL SPECIFICATIONS ON SITE FOR REFERENCE AT ALL TIMES DURING CONSTRUCTION. IF THE CONTRACTOR DOES NOT HAVE A COPY OF THE CURRENT EDITION OF THE MEDINA COUNTY CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE CONTRACTOR SHALL PURCHASE A COPY FROM MEDINA COUNTY. THE PURCHASE OF THE MEDINA COUNTY CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL BE CONSIDERED INCIDENTAL.

FOR PURPOSES OF PAYMENT, ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO INSTALL ANY AND ALL WATER WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE ITEMS LISTED BELOW:

ITEM SPECIAL - 6" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (FT) (MEDINA COUNTY)

ITEM SPECIAL - 8" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (FT) (MEDINA COUNTY)

ITEM SPECIAL - 12" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (FT) (MEDINA COUNTY)

ITEM SPECIAL - 6" GATE VALVE WITH VALVE BOX (EACH) (MEDINA COUNTY)

ITEM SPECIAL - 8" GATE VALVE WITH VALVE BOX (EACH) (MEDINA COUNTY)

ITEM SPECIAL - 12" GATE VALVE WITH VALVE BOX (EACH) (MEDINA COUNTY)

ITEM SPECIAL - 6" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (EACH) (MEDINA COUNTY)

ITEM SPECIAL - 8" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (EACH) (MEDINA COUNTY)

ITEM SPECIAL - 12" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (EACH) (MEDINA COUNTY)

ITEM SPECIAL - 12" X 6" TAPPING SLEEVE, VALVE AND VALVE BOX (EACH) (MEDINA COUNTY)

ITEM SPECIAL - 12" X 8" TAPPING SLEEVE, VALVE AND VALVE BOX (EACH) (MEDINA COUNTY)

ITEM SPECIAL - 12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX (EACH) (MEDINA COUNTY)

ITEM SPECIAL - FIRE HYDRANT SERVICE LINE EXTENDED AND ADJUSTED TO GRADE (EACH) (MEDINA COUNTY)

ITEM SPECIAL - FIRE HYDRANT AND GATE VALVE REMOVED AND RESET (EACH) (MEDINA COUNTY)

ITEM 638 - WATER WORK, MISC.: FIRE VAULT (EACH) (MEDINA COUNTY)

ITEM 638 - WATER WORK, MISC.: WATER SERVICE CONNECTION, "EXTENSION" (EACH) (MEDINA COUNTY)

ITEM 638 - WATER WORK, MISC.: WATER SERVICE CONNECTION, "RECONNECTION" (EACH) (MEDINA COUNTY)

ITEM 638 - FIRE HYDRANT ADJUSTED TO GRADE (EACH)

ITEM 638 - VALVE BOX ADJUSTED TO GRADE (EACH)

ITEM 638 - SERVICE BOX ADJUSTED TO GRADE (EACH)

TEMPORARY WATER CONNECTIONS

THE CONTRACTOR SHALL SUBMIT A TEMPORARY WATER SERVICE PLAN TO BOTH THE CITY OF MEDINA WATER DEPARTMENT AND THE MEDINA COUNTY SANITARY ENGINEERING DEPARTMENT AS APPLICABLE AND PRIOR TO ANY WORK ON THE WATER SYSTEMS. TEMPORARY SERVICE IS TO BE PROVIDED AND IS CONSIDERED TO BE INCIDENTAL TO THE PROPOSED WORK.

NO.	DESCRIPTION	REV. BY	DATE
1	ADDED NOTES, REVISED ITEM DESCRIPTIONS, AND ADDED SHEET NUMBERS	TMT	12-17-2020

QUANTITIES CARRIED TO GENERAL NOTES SUBSUMMARY ON SHEET 55

CALCULATED
ATR
CHECKED
CWL

GENERAL NOTES

MED - 18 - 12.99

42
1085

WATER & SEWER NOTES

GENERAL NOTES

OHIO EPA GENERAL NOTES

- Water mains are to be installed in accordance with the construction and material specifications as detailed in the Medina County Sanitary Engineers Rules and Regulations. All bends, tees, crosses, valves, hydrants, and appurtenances shall be trust blocked and have restrained joints.
- All PVC or Ductile Iron water main trenches within a 1:1 slope of existing or future pavements (Zone of Influence) is to be backfilled with #411 crushed limestone for State Highways, #57 crushed limestone to within one foot (1') of the pavement base topped off with #304 crushed limestone for County Highways, or meet the requirements of the authority having highway maintenance responsibility. Trench conditions for type "K" copper waterline (1" or larger service connection) shall be backfilled with #310 bank run gravel for one foot, then #57 crushed limestone topped off with #304 crushed limestone to the pavement base for County Highways, or meet the requirements of the authority having highway maintenance responsibility.
- Minimum depth of cover shall be five feet (5') unless otherwise noted.
- A six inch (6") hydrant assembly shall include the tee, valve, pipe, a standard six inch (6") hydrant, thrust blocking, anchor couplings at all joints, and necessary offset to set hydrant to proper grade. Hydrants shall be Mueller Centurion Model A-423, A.V.K. Model 2780, or Kennedy K-81D; 5/2" valve opening, minimum 200 P.S.I. operating pressure.
- In the testing of a new water main installation, where it is connected to an existing water main for the test, failure of the test or any damage to the existing facilities shall be the sole responsibility of the contractor.
- The contractor shall assume full responsibility for making all necessary arrangements with all utility companies.
- The contractor shall provide a six foot by six foot (6'x6') I.D. plywood or boxed sheeted chlorination pit at various locations as specified by the Medina County Sanitary Engineers. The MCSE will perform chlorination and final flushing following completion of pressure and leakage test by the contractor.
- The contractor shall make arrangements with the MCSE department for the installation of all water connections. Prior to paving, the MCSE department shall make the water taps and install the connections to one foot (1') beyond the utility easement with a curb stop and box. All excavation and backfill will be performed by the contractor.
- All water service connections shall be maintained at a minimum of four feet (4') of cover. At the end of each curb box a four inch by four inch by eight foot (4"x4"x8') long treated lumber shall be buried four feet (4') deep (leaving four feet (4') exposed). *NOTE: The subplot number or city lot number (whichever is applicable) must be permanently displayed on the front of each four by four (4x4) before final inspection of the project.
- Minimum horizontal separation between water main and storm sewers is ten feet (10'). Minimum horizontal separation between water main and sanitary sewers is ten feet (10'). When this condition cannot be met, the bottom of the water main must be at least eighteen inches (18") above the top of sewer, or the sewer must have joints equivalent to the water main standards and must be pressure tested.
- A final inspection by the MCSE of all water mains is required. Inspection requirements for acceptance of the water lines are:
 - A hydrostatic pressure and leakage test per MCSE standard specs.
 - A disinfection (chlorination) test per MCSE standard specs.
- Costs for all tests relative to testing and inspection shall be borne by the developer (owner).
- All fittings to be mechanical joint. Resilient Wedge Gate Valves must be Mueller series A-2360-20, A.V.K. Series 25, or Kennedy Kenseal II, minimum 250 P.S.I. operating pressure.
- Prior to performing tap and installing the individual water service connections, the developer shall pay the current permit and meter fees.
- Pipe Specifications:

Water Main Material	A.W.W.A. Specifications	Sizes	Class
Ductile Iron Cement Lined	A.W.W.A. C-151-76	4" - 12"	52
Ductile Iron Cement Lined Pressure Class	A.W.W.A. C-151	14" - 64"	350
(Use a MCSE approved Restraint Gland with all fittings)			
PVC Pressure Pipe	A.W.W.A. C-900-75	4" - 12"	150
PVC Pressure Pipe	A.W.W.A. C-909-02	4" - 12"	200
PVC Pressure Pipe	A.W.W.A. C-905-10	14" - Up	235
(When using PVC C-900 or C-909 with Ductile iron valves or fittings UNI-FLANGE 1300 restrainer glands or approved equal must be used)			
- Polyethylene Encasement:

All mechanical joints, all restrained mechanical joints, all valves, all pipe, and fittings where shown on the drawing, or where required, shall be polyethylene encased. Polyethylene Encasement for mechanical joints, restrained mechanical joints, or any joint requiring bolts, shall be generally in accordance with American National Standard ANSI/A.W.W.A. C105/A21.5-82 for Polyethylene Encasement for Ductile Iron Piping for Water and Other Liquids. Mechanical joints, restrained mechanical joints, and all bolted joints shall have double Polyethylene Encasement of class "C" (black) film, method "C" doubling sheet and providing one foot (1') minimum overlap on pipe or fitting on both sides of joint. All pipe and fittings where shown on the drawings or where otherwise required to be Polyethylene Encased shall be encased in using class "C" film, method "B". Polyethylene Encasement shall be securely taped snug around pipe and fittings.
- Painting and Stainless Steel Bolts:

After erection and before polyethylene encasement, all exposed or damaged coating shall be cleaned and painted with three (3) field coats of Interol 50, Bitumastic 50, or equivalent. All bolts exposed to the ground shall be 316 stainless steel, including valve and packing nuts/bolts, mechanical "T" bolts, and bolts used on Mega-Lug anchors. Field painting of stainless steel items will not be required.
- Standard plastic tracer tape is to be buried approximately four feet (4') directly above water line to facilitate its location at a later date.
- The installation of Polyvinyl Chloride (PVC) pressure pipe and fittings for water mains shall follow ANSI/A.W.W.A. C 605.
- The installation of water mains shall follow ANSI/A.W.W.A. C 651.
- The installation of Ductile Iron (D.I.) pressure pipe and fittings for water mains shall follow ANSI/A.W.W.A. C 600.
- All valves and hydrants must be from the same manufacturer (i.e. Mueller valves and Mueller hydrants, not Kennedy valves and Mueller hydrants).

- All manholes shall be set to grade per the manhole schedule by the sewer contractor at the time of installation. The final adjustment of the castings shall be the responsibility of the paving contractor and the final inspection, approval and acceptance of the sewer system by the Medina County Sanitary Engineer Department and Medina City or County Engineer where applicable shall be contingent upon this final adjustment of the casting.
- All manholes shall be constructed of precast reinforced concrete with compression (premium) type joints. In addition to premium joints, all riser ledges must have a layer of either mastic roping, flexible tar mastic, or butyle strips.
- All sanitary sewers and appurtenances shall be constructed in accordance with the Medina County Sanitary Engineering Department standards.
- Sanitary sewer house connections shall be four inch (4") PVC (same as sanitary specifications). Sanitary sewer connections to be laid at a minimum slope of 1.00% and carried to a point one foot (1') beyond the utility easement. Roof drains, foundation drains, and other clean water connections to the sanitary sewer system are prohibited.
- R.C.P. and P.V.C. Trench Conditions:
 - Use Class "I" bedding per O.D.O.T. section 603.06. The material for this bedding shall meet O.D.O.T. specifications for #8 limestone.
 - Trenches within a 1:1 slope of existing or future pavements (Zone of Influence) is to be backfilled with #411 crushed limestone for State Highways, #57 crushed limestone to within one foot (1') of the pavement base topped off with #304 crushed limestone for County Highways, or meet the requirements of the authority having highway maintenance responsibility.
 - For P.V.C., modify O.D.O.T. section 603.06 to carry the bedding material to a minimum of six inches (6") above the pipe.
 - For R.C.P., bedding material shall be #57 limestone, for R.C.P. modify section 603.06 to carry bedding material to a minimum of half the pipe outside diameter (see trench section on standard detail in the plans).
 - If fill is to be constructed below the sanitary sewer, compaction tests indicating 95% compaction must be performed and observed by the M.C.S.E. and submitted for approval before construction of any sanitary sewer within said fill area can begin.
- Testing:
 - Photographic or T.V. inspection of all sanitary sewers and passage of standard infiltration test shall be required before the acceptance of the sanitary system by the Medina County Sanitary Engineers Department.
 - Deflection tests will be run on all P.V.C. pipe, not less than 30 days after final backfill has been placed. No pipe shall exceed a deflection of 5%. These test shall consist of pulling a "GO-NO-GO" Mandrel through the line. The contractor has the option of:
 - A testing company certified by the MCSE performing said work.
 - The contractor performing the work under county supervision.
 - Maximum allowable leakage inward, or outward (Infiltration or Exfiltration) for any sanitary sewer section tested, including all manholes, is 100 gallons per inch of diameter per mile of pipe per day. Manholes may be tested separately. The above allowable leakage rate is equivalent to 0.08 gallons per inch of diameter per 100 feet of pipe per hour.
 - Low pressure air testing will be required on all main line sanitary sewer, laterals, and manholes, per MCSE Rules and Regulations (Resolution 07-874).
 - All costs relative to the above tests shall be borne by the contractor.

Sanitary Sewer Pipe	Material Specs & Size	Joint Specs	Lateral Specs	Minimum Pipe Stiffness or SDR
Truss pipe	8" - 15" ASTM D2680	ASTM D3212 Compression Type	ASTM 3034	200 P.S.I.
Solid Wall Polyvinyl Chloride (PVC)	4" - 15" ASTM D3034 18" - 27" ASTM F679	ASTM D3212 Compression Type	ASTM 3034	SDR 35
PVC Force Main Polyvinyl Chloride	2" - 18" ASTM D2241	ASTM F477 or D3139	N/A	SDR 21
Profile Wall Polyvinyl Chloride (PVC)	18" - 36" ASTM D1784 Cell Classification 12454C, 12454A, 12364A, 12364C	ASTM F477	ASTM 3034	46 P.S.I.
Reinforced Concrete (RCIP)	36" - 96" ASTM C76	ASTM C443	ASTM 3034	Class IV & Class V (As shown on plans)

- Sewers shall be deep enough to receive wastewater from basements, and to prevent freezing.
- Sewers shall be laid with uniform slope between manholes.
- Manholes shall be installed at the end of each line; at all changes of grade, size, and alignment; all intersections; and all distances less than 400'. However, MCSE can test up to 750'.
- Water tight manhole covers shall be used where the manhole tops may be flooded by street run-off or high water. Inlet and outlet pipes shall be joined to the manhole by a gasketed, flexible, water tight connection.

- Underground facilities, structures, and utilities have been plotted from available surveys and drawings from various sources. Therefore, their locations must be considered approximate only. Also, there may be others, the existence of which is not presently known. The Board of County Commissioners of Medina County and the Medina County Sanitary Engineering Department expressly disclaims any responsibility for the accuracy and completeness of information given regarding existing underground utilities.
- The owner offers the existing underground information as shown on the profile sheets as a guide only, but does not guarantee or assume any liability implied or otherwise for the accuracy of information given hereon. It shall be the contractor's responsibility to ascertain for himself the conditions that he may encounter during completion of the project.
- All survey centerline locations for ground control will be established by the engineer. During construction, the survey centerlines, offset locations, hubs, stakes, flags, markers, pins, and/or reference points must be protected by the contractor. If it is necessary to reset any hubs, stakes, flags, markers, pins, and/or reference points which have been disturbed, the contractor shall pay the engineer all such costs of restaking at prevailing wage rates.
- All existing property pins, rods, monuments, monument boxes, and/or benchmarks in the construction area must be protected at all times. It shall be the responsibility of the contractor to re-establish those items disturbed by his work, by using his own engineering forces, and/or as directed by the engineer at no additional cost to the owner.
- The contractor shall visit the site and become familiar with the existing conditions prior to placement of his bid for the project.
- Blasting will not be permitted unless approved by the owner.
- All abandoned pipes shall be bulkheaded and filled with grout.
- Existing catch basins, where disturbed, shall be reset to finished grade, or pavement elevation as directed by the engineer.
- All utility services shall be maintained throughout the construction period.
- All manholes, catch basins, monument rims, valve boxes, castings, and covers shall be adjusted to finished pavement elevations, final grade or as directed by the engineer.
- The contractor shall submit shop drawings for approval before any work can commence.
- The contractor shall verify all dimensions and conditions related to existing construction, existing services, temporary service, and the site.
- The contractor shall be responsible for the design, installation, and final clearance of any required needling, underpinning, shoring or bracing of existing structures.
- Notify the engineer of any unusual soil conditions, such as springs or seepage of water encountered, or where a different bearing material is evident and there is a question of the bearing capacity.
- See Specifications Book for: Quality of construction required, performance levels of workmanship, manufacturing and industrial standards, strength regulations, and guarantee requirements.
- Minor alignment changes may be required during construction due to possible utility conflicts, as directed and/or approved by the engineer.
- No supplemental clauses, conditions, notations, or stipulations by the bidders shall be permitted on or attached to the bid proposal.
- Errors in bidding computations shall be at the peril of the bidder. All errors shall be resolved as most favorable to the owner and the successful bidder waives

- any and all claims against the owner or right of reformation of the bid after the public opening of the bids.
- The contractor is to confirm the invert elevations of all existing sewers affected by his work prior to commencement of work and report all findings to the engineer.
- Paving and/or resurfacing work shall not be scheduled for completion until prior approval of the contractor's progress schedule has been granted or directed by the engineer.
- The contractor shall obtain highway use permits from the Medina County Highway Engineer prior to construction on township or county roads. The Medina County Sanitary Engineer will obtain O.D.O.T. permits for work in State of Ohio roadways.
- Work limits shall be limited to within the Right-of-Way. All of the contractor's operations must be confined within the existing street's Right-of-Way limits or existing easements acquired by the owner. Any additional construction easements needed for completion of his work must be secured from the property owners by the contractor at his expense and at no additional cost to the owner.
- Excess excavation for the project shall be wasted on the project site as directed by the engineer, or excess excavation not wasted on the job site shall be hauled away by the contractor at his expense at no additional cost to the owner. Materials disposed of off-site must be disposed in an environmentally sound fashion and in accordance with all local, state, and federal regulations.
- Trees: All trees shall be saved unless otherwise noted, or as directed by the engineer. Extreme caution must be taken to protect trees. Any damage to the trees must be repaired and the method of repair must receive prior approval from the engineer.
- Restoration of the work area: Before release of the final payment a complete review of the entire work area will be made to verify the area is restored to pre-construction condition or better.
- The locations of the underground utilities shown on the plans are as obtained from the owners of the utility, as required by section 153.64 Ohio Revised Code. At least two (2) working days prior to commencing construction operations, in an area which may involve underground utility facilities, the Ohio Utility Protection Service (OUPS), the Oil & Gas Producers Underground Protection Service (OGPUPS), and the owners of each underground utility facility shown on the plans shall be contacted by the contractor. The owner of the underground utility facility shall, within forty-eight (48) hours, excluding Saturdays, Sundays, and legal holidays, after notice is received, staked, mark or otherwise designate the location of the underground utility facilities in the construction area in such a manner as to indicate their course together with the approximate depth at which they were installed. The marking or locating shall be coordinated to stay two (2) days ahead of the planned construction.
- Sanitary sewers are to be separated from existing and proposed potable water lines by a minimum horizontal distance of ten feet (10'), outside of pipe to outside of pipe. In instances where water and sewer line must cross, the water line is to maintain a vertical distance of eighteen inches (18") above the sanitary sewer, outside of pipe to outside of pipe.
- All construction equipment shall be equipped with mufflers in accordance with federal safety standards.
- All heavy equipment on road surfaces shall include metal or rubber pavement tracks.

- A minimum 35 PSI pressure shall be delivered to the curb stop boxes during normal operating conditions for all water service connections.
 - Booster pumps are not permitted on water service connections.
 - The sanitary sewers must pass a leakage test which shall be a low pressure air test in accordance with the "Ten State Standards" section 33.95 and ASTM F-1417 hydrostatic testing will have a leakage limit of 100 Gal./In./Mi./Day.
 - All sanitary manholes shall be air tested per ASTM specification C 1244-93 to verify water tightness and proper construction per plan details.
 - All flexible sanitary sewers must pass a deflection test (5% Max.)
- Deflection tests shall be performed no sooner than 30 days following completion of backfill. Maximum ring deflection of the pipe under load shall be limited to 5% of the average inside diameter listed in ASTM D-2751 for ABS solid wall pipe and ASTM D-2680 for ABS composite wall pipe. ASTM-3034 for Polyvinyl Chloride (PVC) pipe lists outside dimensions and minimum wall thicknesses which may be used to calculate applicable base diameters. The proper sized mandrels shall be pulled through the pipe.
- All pipe failing to maintain the minimum deflection diameter or larger for the applicable type of pipe shall be considered to have been improperly installed and shall be relayed or replaced by the contractor at their expense.
- All water mains shall be installed and pressure tested per AWWA C600.
 - All water mains shall be disinfected per AWWA C651.
 - The following minimum horizontal separations (measured out-to-out clear) between the proposed water line and the sewers shall be maintained:
 - 10 foot separation from the storm sewer
 - 10 foot separation from the sanitary sewer
 - The following minimum vertical clearances (measured out-to-out clear) between the proposed water line and the sewers shall be maintained:
 - 18 inch clearance from the storm sewer
 - 18 inch clearance from the sanitary sewer

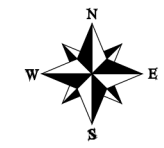
Water Lines Sanitary Sewers Storm Sewers	County of Medina 791 West Smith Road Medina, Ohio 44225 (216) 225-3113 or (330) 723-9575
OUPS	Rural Lorain County Water Authority P.O. Box 567 LA Grange, Ohio 44050 (216) 355-5121
OGPUPS	Registered Underground Utilities Protection Service 1-800-352-2764 The Oil & Gas Producers Underground Protection Service 1-800-925-0988

Additional Notes for Townships and County Highways:

Medina County Highway Engineer inspectors will periodically check that:

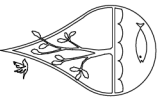
- Signs & Flaggers (Patrolmen) are used every day.
- The road is washed every day.
- The excavated area is closed or plated daily.
- Premium fill is used if the trench is within 5'-0" of the edge of the pavement.
- Trench boxes & ladders are used as required by M.C.H.E.
- All equipment is parked 10'-0" minimum from the pavement edge.

CAUTION:
Contact all utilities before beginning construction (Refer to General Note #26).



COUNTY: MEDINA	TOWNSHIP: VARIOUS
DATE: SEPTEMBER 2014	REVIEWED BY: [Blank]
SCALE: N/A / N/A	ADDED: C905 PVC
DATE: [Blank]	DESCRIPTION: [Blank]

GENERAL NOTES



PLANNED BY:
**MEDINA COUNTY
SANITARY ENGINEER**
AMY S. LYON-GALVIN, P.E.
770 WEST SMITH RD.
MEDINA, OHIO 44225
(330) 725-9585

PROJECT NUMBER	000/00-00.0
SHEET NUMBER	2 / 1

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD CLOSURES	>= 2 WEEKS > 12 HOURS & < 2 WEEKS < = 12 HOURS	21 CALENDAR DAYS PRIOR TO CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE 4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE 5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

THE ENTITIES LISTED BELOW HAVE BEEN INCLUDED FOR REFERENCE:

- | | |
|--|--|
| 1. ODOT DISTRICT 3
906 NORTH CLARK AVENUE
ASHLAND, OHIO 44805
(419) 207-7182 | 8. CITY OF MEDINA
FIRE DEPARTMENT
300 WEST REAGAN PARKWAY
MEDINA, OHIO 44256
(330) 725-1772 |
| 2. MEDINA TOWNSHIP
ROADS DEPARTMENT
3718 WEYMOUTH ROAD
MEDINA, OHIO 44256
(330) 725-8780 | 9. MEDINA CITY SCHOOLS
739 WEYMOUTH ROAD
MEDINA, OHIO 44256
(330) 725-8831 |
| 3. MEDINA TOWNSHIP
POLICE DEPARTMENT
4877 FENN ROAD
MEDINA, OHIO 44256
(330) 723-1408 | 10. MEDINA HOSPITAL
CLEVELAND CLINIC
1000 EAST WASHINGTON STREET
MEDINA, OHIO 44256
(330) 725-1000 |
| 4. MEDINA TOWNSHIP
FIRE DEPARTMENT
3803 HUFFMAN ROAD
MEDINA, OHIO 44256
(330) 723-6900 | 11. MEDINA COUNTY ENGINEER'S OFFICE
791 WEST SMITH ROAD
MEDINA, OHIO 44256
(330) 723-9561 |
| 5. MEDINA COUNTY SHERIFF
555 INDEPENDENCE DRIVE
MEDINA, OHIO 44256
(330) 725-0028 | 12. MONTVILLE TOWNSHIP
SAFETY SERVICES
665 WADSWORTH ROAD
MEDINA, OHIO 44256
(330) 725-8314 |
| 6. CITY OF MEDINA ENGINEER
132 NORTH ELMWOOD AVENUE
MEDINA, OHIO 44256
(330) 722-9034 | 13. OHIO STATE HIGHWAY PATROL
3149 FRANTZ ROAD
MEDINA, OHIO 44212
(330) 725-4921 |
| 7. CITY OF MEDINA
POLICE DEPARTMENT
150 WEST FRIENDSHIP STREET
MEDINA, OHIO 44256
(330) 725-7777 | |

CONSTRUCTION SCHEDULE

AS SHOWN IN THE SEQUENCE OF CONSTRUCTION, IT IS ANTICIPATED PHASE 1 IS TO BE CONSTRUCTED DURING 2021, PHASES 2-4 ARE TO BE CONSTRUCTED IN 2022 (EXCEPT RIVER STYX ROAD WORK WHICH SHOULD BE COMPLETED IN 2023), PHASES 5-7 ARE TO BE CONSTRUCTED DURING 2023, AND PHASE 8 MAY BE CONSTRUCTED IN 2023 OR 2024. THE CONTRACTOR SHALL SCHEDULE HIS/HER WORK FOR THE PHASES OF CONSTRUCTION TO BE COMPLETED IN THE CONSTRUCTION SEASON AS NOTED. ANY DEVIATIONS FROM THE SEASON RESTRICTION REQUIRES APPROVAL BY THE ENGINEER.

SEQUENCE OF CONSTRUCTION

PHASE 1 - S.R. 18 (BEGIN PROJECT TO FOOTE ROAD & RIVER STYX ROAD TO END PROJECT) - CONSTRUCTION EXPECTED 2021

RETAINING WALL #4, TEMPORARY PAVEMENT AND WALK REQUIRED FOR PHASE 2 SHALL BE CONSTRUCTED ON THE SOUTH SIDE OF S.R. 18. THE EXISTING RAISED MEDIAN BETWEEN RUSTIC HILLS ROAD AND NETTLETON ROAD SHALL BE REMOVED AND REPLACED WITH TEMPORARY PAVEMENT. THIS WORK SHALL BE PERFORMED DURING OFF-PEAK HOURS WHILE MAINTAINING A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION; A LEFT TURN LANE AT ALL SIGNALIZED INTERSECTIONS SHALL ALSO BE MAINTAINED, WITH THE EXCEPTION OF THE WEST HOSPITAL DRIVEWAY. FULL TRAFFIC PATTERNS SHALL BE RESTORED AT THE END OF EACH WORK DAY.

THE CONTRACTOR SHALL INSTALL WORK ZONE TRAFFIC SIGNALS AT THE FOLLOWING INTERSECTIONS:

- S.R. 18/W. HOSPITAL DRIVEWAY/WOODLAND DRIVE
- S.R. 18/E. HOSPITAL DRIVEWAY
- S.R. 18/SHADY BROOKE LANE/RIVER STYX ROAD
- S.R. 18/FRONTAGE ROAD (AFTER DRIVES ARE COMBINED ON ONE SIDE)

AT NO TIME SHALL ANY EXISTING SIGNAL BE OUT OF SERVICE BEFORE THE WORK ZONE TRAFFIC SIGNAL HAS BEEN INSTALLED AND IS IN WORKING ORDER AND PASSED ALL TESTING. THE CONSTRUCTION OF WORK ZONE TRAFFIC SIGNALS WHICH REQUIRE LANE CLOSURES SHALL BE PERMITTED DURING NIGHTTIME HOURS WHERE A MINIMUM TWO-WAY, ONE-LANE TRAFFIC SHALL BE MAINTAINED UNDER FLAGGER CONTROL.

PHASE 2 - S.R. 18 (BEGIN PROJECT TO FOOTE ROAD & RIVER STYX ROAD TO END PROJECT) - CONSTRUCTION EXPECTED 2022

TRAFFIC SHALL BE SHIFTED TO THE SOUTH SIDE OF S.R. 18. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED; A LEFT TURN LANE AT ALL SIGNALIZED INTERSECTIONS SHALL ALSO BE MAINTAINED. THE CONTRACTOR SHALL CONSTRUCT ALL ROADWAY IMPROVEMENTS TO THE NORTH SIDE OF S.R. 18, INCLUDING THE ASPHALT PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE COURSE, AND THE TEMPORARY PAVEMENT AND WALK TO BE USED IN PHASE 3. PAVEMENT RECONSTRUCTION SHALL BE SUSPENDED IN THE AREA OF THE PROPOSED RAISED MEDIAN ON S.R. 18 BETWEEN FRONTAGE ROAD AND NETTLETON ROAD. THE CONTRACTOR SHALL SUSPEND CONSTRUCTION OF THE NORTH CURB AT THE WOODLAND DRIVE INTERSECTION. WOODLAND DRIVE SHALL BE CLOSED AND DETOURED.

THE STORM LATERAL AT STA. 92+49 SHALL BE CONSTRUCTED DURING NIGHTTIME HOURS WHILE MAINTAINING TWO-WAY, ONE LANE TRAFFIC UNDER FLAGGER CONTROL.

THE WATER HYDRANT AT STA. 91+98, 33' LT SHALL BE SUSPENDED UNTIL PHASE 3F.

THE CONTRACTOR SHALL CONSTRUCT ROADWAY IMPROVEMENTS FOR THE FOLLOWING SIDE ROADS (SEE MAINTAINING TRAFFIC DURING SIDE ROAD CONSTRUCTION NOTE FOR ADDITIONAL DETAILS):

- ALBER DRIVE
- WOODLAND DRIVE
- GLENSHIRE LANE
- SHADY BROOKE LANE
- FRONTAGE ROAD (NORTH OF S.R. 18)
- N. FRONTAGE ROAD

SEQUENCE OF CONSTRUCTION (CONTINUED)

PHASE 2A - SHADY BROOKE LANE - CONSTRUCTION EXPECTED 2022

TEMPORARY PAVEMENT REQUIRED FOR PHASE 2B SHALL BE CONSTRUCTED ON THE EAST SIDE OF SHADY BROOKE LANE DURING OFF-PEAK HOURS WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. EXISTING TRAFFIC PATTERNS SHALL BE RESTORED AT THE END OF EACH WORK DAY.

THE STORM LATERAL AT STA. 923+59 SHALL BE CONSTRUCTED DURING NIGHTTIME HOURS WHILE MAINTAINING TWO-WAY, ONE LANE TRAFFIC UNDER FLAGGER CONTROL.

PHASE 2B - SHADY BROOKE LANE - CONSTRUCTION EXPECTED 2022

TRAFFIC SHALL BE SHIFTED TO THE EAST SIDE OF SHADY BROOKE LANE WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE WEST SIDE OF SHADY BROOKE LANE INCLUDING THE TEMPORARY PAVEMENT TO BE USED IN PHASE 2C.

PHASE 2C - SHADY BROOKE LANE - CONSTRUCTION EXPECTED 2022

TRAFFIC SHALL BE SHIFTED TO THE WEST SIDE OF SHADY BROOKE LANE WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE EAST SIDE OF SHADY BROOKE LANE.

PHASE 2D - SHADY BROOKE LANE - CONSTRUCTION EXPECTED 2022

TRAFFIC SHALL BE SHIFTED TO THE EAST ONTO THE NEWLY CONSTRUCTED PAVEMENT WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE REMAINING CURB ON THE WEST SIDE OF SHADY BROOKE LANE.

PHASES 2A, 2B, 2C & 2D SHALL BE PERFORMED CONCURRENTLY WITH PHASE 2.

PHASE 3 - S.R. 18 (BEGIN PROJECT TO FOOTE ROAD & RIVER STYX ROAD TO END PROJECT) - CONSTRUCTION EXPECTED 2022 (**RIVER STYX ROAD CONSTRUCTED IN 2023)

TRAFFIC SHALL BE SHIFTED TO THE NORTH SIDE OF S.R. 18. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED; A LEFT TURN LANE AT ALL SIGNALIZED INTERSECTION SHALL ALSO BE MAINTAINED. THE CONTRACTOR SHALL CONSTRUCT ALL ROADWAY IMPROVEMENTS TO THE SOUTH SIDE OF S.R. 18 INCLUDING THE ASPHALT PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE COURSE. PAVEMENT RECONSTRUCTION SHALL BE SUSPENDED IN THE AREA OF THE PROPOSED RAISED MEDIAN ON S.R. 18 BETWEEN RUSTIC HILLS DRIVE AND NETTLETON ROAD.

THE CONTRACTOR SHALL CONSTRUCT ROADWAY IMPROVEMENTS FOR THE FOLLOWING SIDE ROADS (SEE MAINTAINING TRAFFIC DURING SIDE ROAD CONSTRUCTION NOTE FOR ADDITIONAL DETAILS):

- W. HOSPITAL DRIVEWAY
- E. HOSPITAL DRIVEWAY
- RIVER STYX ROAD
- FRONTAGE ROAD (SOUTH OF S.R. 18)
- S. FRONTAGE ROAD
- RUSTIC HILLS DRIVE
- OCTAGON DRIVE

PERMANENT TRAFFIC SIGNALS SHALL BE INSTALLED AND FUNCTIONAL AT THE FOLLOWING INTERSECTIONS PRIOR TO PHASE 4:

- S.R. 18/W. HOSPITAL DRIVEWAY/WOODLAND DRIVE
- S.R. 18/E. HOSPITAL DRIVEWAY
- S.R. 18/SHADY BROOKE LANE/RIVER STYX ROAD
- S.R. 18/FRONTAGE ROAD
- S.R. 18/SMITH ROAD/RIVER STYX ROAD

THE CONTRACTOR SHALL NOT WORK ON RIVER STYX ROAD BEFORE MARCH 1ST, 2023.

NO.	DESCRIPTION	REV. BY	DATE
1	ADDED CONSTRUCTION YEAR	AKF	12/17/20

SEQUENCE OF CONSTRUCTION (CONTINUED)

PHASE 3A - E. HOSPITAL DRIVEWAY - CONSTRUCTION EXPECTED 2022

TRAFFIC SHALL BE SHIFTED TO THE EAST SIDE OF E. HOSPITAL DRIVEWAY WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE WEST SIDE OF E. HOSPITAL DRIVEWAY.

PHASE 3B - E. HOSPITAL DRIVEWAY - CONSTRUCTION EXPECTED 2022

TRAFFIC SHALL BE SHIFTED TO THE WEST SIDE OF E. HOSPITAL DRIVEWAY WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE EAST SIDE OF E. HOSPITAL DRIVEWAY.

PHASE 3A - RIVER STYX ROAD - CONSTRUCTION EXPECTED 2023

TEMPORARY PAVEMENT REQUIRED FOR PHASE 3B SHALL BE CONSTRUCTED ON THE EAST SIDE OF RIVER STYX ROAD DURING OFF-PEAK HOURS WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. EXISTING TRAFFIC PATTERNS SHALL BE RESTORED AT THE END OF EACH WORK DAY.

PHASE 3A (E. HOSPITAL DRIVEWAY) AND 3B (E. HOSPITAL DRIVEWAY) SHALL BE PERFORMED CONCURRENTLY WITH PHASE 3.

PHASE 3B - RIVER STYX ROAD - CONSTRUCTION EXPECTED 2023

TRAFFIC SHALL BE SHIFTED TO THE EAST SIDE OF RIVER STYX ROAD WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE WEST SIDE OF RIVER STYX ROAD, INCLUDING OCTAGON DRIVE. OCTAGON DRIVE SHALL BE CLOSED AND DETOURED.

PHASE 3C - RIVER STYX ROAD (PROPOSED CULVERT) - CONSTRUCTION EXPECTED 2023

TRAFFIC SHALL REMAIN SHIFTED ON THE EAST SIDE OF RIVER STYX ROAD WHILE MAINTAINING ONE SOUTHBOUND LANE OF TRAFFIC. NORTHBOUND TRAFFIC SHALL BE DETOURED. THE CONTRACTOR SHALL CONSTRUCT THE WEST SIDE OF THE PROPOSED CULVERT ON RIVER STYX ROAD. OCTAGON DRIVE SHALL REMAIN CLOSED AND DETOURED.

PHASE 3D - RIVER STYX ROAD (PROPOSED CULVERT) - CONSTRUCTION EXPECTED 2023

TRAFFIC SHALL BE SHIFTED TO THE WEST SIDE OF RIVER STYX ROAD WHILE MAINTAINING ONE SOUTHBOUND LANE OF TRAFFIC. NORTHBOUND TRAFFIC SHALL BE DETOURED. THE CONTRACTOR SHALL CONSTRUCT THE EAST SIDE OF THE PROPOSED CULVERT ON RIVER STYX ROAD.

PHASE 3E - RIVER STYX ROAD - CONSTRUCTION EXPECTED 2023

TRAFFIC SHALL BE SHIFTED TO THE WEST SIDE OF RIVER STYX ROAD WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE EAST SIDE OF RIVER STYX ROAD.

PHASE 3F - S.R. 18 INTERSECTION AT WOODLAND DRIVE (NORTH CURB) - CONSTRUCTION EXPECTED 2022

UPON COMPLETION OF THE ROADWAY IMPROVEMENTS ON THE SOUTH SIDE OF THE WOODLAND DRIVE INTERSECTION, TRAFFIC SHALL BE SHIFTED TO THE SOUTH SIDE OF S.R. 18 WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION IN ORDER TO CONSTRUCT THE REMAINING NORTH CURB AT THIS INTERSECTION.

THE PREVIOUSLY SUSPENDED WATER HYDRANT AT STA. 91+98, 33' LT SHALL BE COMPLETED.

SEQUENCE OF CONSTRUCTION (CONTINUED)

PHASE 4 - S.R. 18 (RUSTIC HILLS DRIVE TO NETTLETON ROAD) - CONSTRUCTION EXPECTED 2022

THE CONTRACTOR SHALL CONSTRUCT THE PREVIOUSLY SUSPENDED PAVEMENT AND RAISED MEDIAN ON S.R. 18 BETWEEN FRONTAGE ROAD AND NETTLETON ROAD. TRAFFIC SHALL BE SHIFTED ONTO THE NEWLY CONSTRUCTED PAVEMENT ADJACENT TO THE MEDIAN WORK AREA WHILE MAINTAINING TWO LANES OF TRAFFIC IN EACH DIRECTION. OUTSIDE OF THE WORK AREA, FROM RIVER STYX ROAD TO FRONTAGE ROAD, PROPOSED TRAFFIC PATTERNS SHALL BE MAINTAINED. EAST OF NETTLETON ROAD, EXISTING TRAFFIC PATTERNS SHALL BE MAINTAINED.

WINTER-OVER PHASE

THIS PHASE IS INTENDED TO BE UTILIZED DURING THE WINTER MONTHS (NOVEMBER 1 TO APRIL 1) BETWEEN PHASE 4 AND PHASE 5 WHEN NO PROPOSED ROADWAY RECONSTRUCTION/PAVING OPERATIONS IS OCCURRING AND FULL TRAFFIC PATTERNS ARE IN PLACE. OTHER WORK MAY BE PERFORMED DURING THE WINTER MONTHS, AT THE APPROVAL OF THE ENGINEER, AS LONG AS THE FULL TRAFFIC PATTERNS ARE RESTORED AT THE END OF EACH WORK DAY.

PHASE 5 - S.R. 18 (FOOTE ROAD TO RIVER STYX ROAD) - CONSTRUCTION EXPECTED 2023

TEMPORARY PAVEMENT REQUIRED FOR PHASE 6 SHALL BE CONSTRUCTED ON THE NORTH SIDE OF S.R. 18, BETWEEN FOOTE ROAD AND RIVER STYX ROAD, DURING OFF-PEAK HOURS. A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED; A LEFT TURN AT ALL SIGNALIZED INTERSECTIONS SHALL ALSO BE MAINTAINED. FULL TRAFFIC PATTERNS SHALL BE RESTORED AT THE END OF EACH WORK DAY. THE PROPOSED DRAINAGE ADJACENT TO THE TEMPORARY PAVEMENT SHALL BE CONSTRUCTED BETWEEN STA. 115+00 TO STA. 125+60 AND AT STA. 155+77.

THE STORM LATERAL AT STA. 115+60 SHALL BE CONSTRUCTED DURING NIGHTTIME HOURS WHILE MAINTAINING TWO-WAY, ONE-LANE TRAFFIC UNDER FLAGGER CONTROL.

PHASE 5 - S.R. 18 (FOOTE ROAD TO RIVER STYX ROAD) (CONTINUED) - CONSTRUCTION EXPECTED 2023

THE CONTRACTOR SHALL INSTALL WORK ZONE TRAFFIC SIGNALS AT THE FOLLOWING INTERSECTIONS:

- S.R. 18/FOOTE ROAD
- S.R. 18/SUMMA HEALTHCARE DRIVEWAY
- S.R. 18/VILLAGE GATE DRIVE/BUEHLER DRIVE

AT NO TIME SHALL ANY EXISTING SIGNAL BE OUT OF SERVICE BEFORE THE WORK ZONE TRAFFIC SIGNAL HAS BEEN INSTALLED AND IS IN WORKING ORDER AND PASSED ALL TESTING. THE CONSTRUCTION OF WORK ZONE TRAFFIC SIGNALS WHICH REQUIRE LANE CLOSURES SHALL BE PERMITTED DURING NIGHTTIME HOURS WHERE A MINIMUM TWO-WAY, ONE-LANE TRAFFIC SHALL BE MAINTAINED UNDER FLAGGER CONTROL.

SEQUENCE OF CONSTRUCTION (CONTINUED)

PHASE 6 - S.R. 18 (FOOTE ROAD TO RIVER STYX ROAD) - CONSTRUCTION EXPECTED 2023

TRAFFIC SHALL BE SHIFTED TO THE NORTH SIDE OF S.R. 18. ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION; A LEFT TURN LANE AT ALL SIGNALIZED INTERSECTIONS SHALL ALSO BE MAINTAINED. THE CONTRACTOR SHALL CONSTRUCT ALL ROADWAY IMPROVEMENTS TO THE SOUTH SIDE OF S.R. 18, INCLUDING THE ASPHALT PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE COURSE, AND THE TEMPORARY PAVEMENT TO BE USED IN PHASE 7. THE CONTRACTOR SHALL SUSPEND CONSTRUCTION OF THE SOUTH CURB AT THE FOOTE ROAD, SUMMA HEALTHCARE DRIVEWAY, AND BUEHLER DRIVE INTERSECTIONS. SCHOOL SIGNAL FLASHER OPERATION ON S.R. 18 SHALL BE MAINTAINED AT ALL TIMES.

THE STORM LATERAL AT STA. 125+58 SHALL BE CONSTRUCTED DURING NIGHTTIME HOURS WHILE MAINTAINING TWO-WAY, ONE LANE TRAFFIC UNDER FLAGGER CONTROL.

THE WATER HYDRANT AT STA. 152+68, 38' LT SHALL BE SUSPENDED UNTIL PHASE 7.

THE CONTRACTOR SHALL CONSTRUCT ROADWAY IMPROVEMENTS FOR THE FOLLOWING SIDE ROADS (SEE MAINTAINING TRAFFIC DURING SIDE ROAD CONSTRUCTION NOTE FOR ADDITIONAL DETAILS):

- FOOTE ROAD (SOUTH OF S.R. 18)
- CARRICK DRIVE
- WATERFORD DRIVE
- SUMMA HEALTHCARE DRIVEWAY
- BUEHLER DRIVE

PHASE 6A - FOOTE ROAD (SOUTH OF S.R. 18) - CONSTRUCTION EXPECTED 2023

TEMPORARY PAVEMENT AND WALK REQUIRED FOR PHASE 6B SHALL BE CONSTRUCTED ON THE EAST SIDE OF FOOTE ROAD DURING OFF-PEAK HOURS WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. EXISTING TRAFFIC PATTERNS SHALL BE RESTORED AT THE END OF EACH WORK DAY. THE PROPOSED DRAINAGE BELOW THE TEMPORARY PAVEMENT SHALL BE CONSTRUCTED.

THE STORM LATERALS AT STA. 11+70, STA. 14+20, AND STA. 15+80 SHALL BE CONSTRUCTED DURING NIGHTTIME HOURS WHILE MAINTAINING TWO-WAY, ONE-LANE TRAFFIC UNDER FLAGGER CONTROL.

THE CONTRACTOR SHALL NOT WORK ON FOOTE ROAD BEFORE MARCH 1ST, 2023.

PHASE 6B - FOOTE ROAD (SOUTH OF S.R. 18) - CONSTRUCTION EXPECTED 2023

TRAFFIC SHALL BE SHIFTED TO THE EAST SIDE OF FOOTE ROAD WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE WEST SIDE OF FOOTE ROAD.

PHASE 6C - FOOTE ROAD (SOUTH OF S.R. 18) - CONSTRUCTION EXPECTED 2023

TRAFFIC SHALL BE SHIFTED TO THE WEST SIDE OF FOOTE ROAD WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE EAST SIDE OF FOOTE ROAD. CARRICK DRIVE SHALL BE CLOSED AND DETOURED.

PHASES 6A, 6B & 6C SHALL BE PERFORMED CONCURRENTLY WITH PHASE 6.

NO.	DESCRIPTION	REV. BY	DATE
1	ADDED CONSTRUCTION YEAR	AKF	12/17/20

SEQUENCE OF CONSTRUCTION (CONTINUED)

△ PHASE 7 - S.R. 18 (FOOTE ROAD TO RIVER STYX ROAD) - CONSTRUCTION EXPECTED 2023
TRAFFIC SHALL BE SHIFTED TO THE SOUTH SIDE OF S.R. 18. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED; A LEFT TURN LANE AT ALL SIGNALIZED INTERSECTION SHALL ALSO BE MAINTAINED. THE CONTRACTOR SHALL CONSTRUCT ALL ROADWAY IMPROVEMENTS TO THE NORTH SIDE OF S.R. 18 INCLUDING THE ASPHALT PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE COURSE. VICTOR DRIVE SHALL BE CLOSED AND DETOURED. SCHOOL SIGNAL FLASHER OPERATION ON S.R. 18 SHALL BE MAINTAINED AT ALL TIMES.

THE PREVIOUSLY SUSPENDED WATER HYDRANT AT STA. 152+68, 38' LT SHALL BE COMPLETED.

THE CONTRACTOR SHALL CONSTRUCT ROADWAY IMPROVEMENTS FOR THE FOLLOWING SIDE ROADS (SEE MAINTAINING TRAFFIC DURING SIDE ROAD CONSTRUCTION NOTE FOR ADDITIONAL DETAILS):
- FOOTE ROAD (NORTH OF S.R. 18)
- BURGUNDY BAY BOULEVARD
- RETREAT DRIVE
- VICTOR DRIVE
- VILLAGE GATE DRIVE

PERMANENT TRAFFIC SIGNALS SHALL BE INSTALLED AND FUNCTIONAL AT THE FOLLOWING INTERSECTIONS PRIOR TO PHASE 8:
- S.R. 18/FOOTE ROAD
- S.R. 18/SUMMA HEALTHCARE DRIVEWAY
- S.R. 18/VILLAGE GATE DRIVE/BUEHLER DRIVE

△ PHASE 7A - FOOTE ROAD (NORTH OF S.R. 18), BURGUNDY BAY BOULEVARD, VILLAGE GATE DRIVE - CONSTRUCTION EXPECTED 2023
FOOTE ROAD:
TEMPORARY PAVEMENT REQUIRED FOR PHASE 7B SHALL BE CONSTRUCTED ON THE EAST SIDE OF FOOTE ROAD DURING OFF-PEAK HOURS WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. EXISTING TRAFFIC PATTERNS SHALL BE RESTORED AT THE END OF EACH WORK DAY.

THE STORM LATERAL AT STA. 18+50 SHALL BE CONSTRUCTED DURING NIGHTTIME HOURS WHILE MAINTAINING TWO-WAY, ONE LANE TRAFFIC UNDER FLAGGER CONTROL.

BURGUNDY BAY BOULEVARD:
TRAFFIC SHALL BE SHIFTED TO THE EAST SIDE OF BURGUNDY BAY BOULEVARD. WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE WEST SIDE OF BURGUNDY BAY BOULEVARD.

VILLAGE GATE DRIVE:
TRAFFIC SHALL BE SHIFTED TO THE EAST SIDE OF VILLAGE GATE DRIVE WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE WEST SIDE OF VILLAGE GATE DRIVE.

△ PHASE 7B - FOOTE ROAD (NORTH OF S.R. 18), BURGUNDY BAY BOULEVARD, VILLAGE GATE DRIVE - CONSTRUCTION EXPECTED 2023
FOOTE ROAD:
TRAFFIC SHALL BE SHIFTED TO THE EAST SIDE OF FOOTE ROAD WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE WEST SIDE OF FOOTE ROAD.

BURGUNDY BAY BOULEVARD:
TRAFFIC SHALL BE SHIFTED TO THE WEST SIDE OF BURGUNDY BAY BOULEVARD. WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE EAST SIDE OF BURGUNDY BAY BOULEVARD.

VILLAGE GATE DRIVE:
TRAFFIC SHALL BE SHIFTED TO THE WEST SIDE OF VILLAGE GATE DRIVE WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE EAST SIDE OF VILLAGE GATE DRIVE.

△ PHASE 7C - FOOTE ROAD (NORTH OF S.R. 18) - CONSTRUCTION EXPECTED 2023
TRAFFIC SHALL BE SHIFTED TO THE WEST SIDE OF FOOTE ROAD WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE EAST SIDE OF FOOTE ROAD.

PHASE 7A, 7B & 7C SHALL BE PERFORMED CONCURRENTLY WITH PHASE 7.

SEQUENCE OF CONSTRUCTION (CONTINUED)

△ PHASE 7D - S.R. 18 INTERSECTIONS AT FOOTE ROAD, SUMMA HEALTHCARE DRIVEWAY & BUEHLER DRIVE (SOUTH CURB) - CONSTRUCTION EXPECTED 2023
UPON COMPLETION OF THE ROADWAY IMPROVEMENTS ON THE NORTH SIDE OF THE S.R.18/FOOTE ROAD, S.R.18/SUMMA HEALTHCARE DRIVEWAY, AND S.R. 18/BUEHLER DRIVE INTERSECTIONS, TRAFFIC SHALL BE SHIFTED TO THE NORTH SIDE OF S.R. 18 WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION IN ORDER TO CONSTRUCT THE FOLLOWING REMAINING SOUTH CURBS:

- SE & SW CORNERS OF S.R. 18/FOOTE ROAD INTERSECTION
- SE CORNER OF S.R.18/SUMMA HEALTHCARE DRIVEWAY
- SE & SW CORNERS OF S.R. 18/BUEHLER DRIVE INTERSECTION

△ PHASE 7E - S.R. 18 INTERSECTION AT SUMMA HEALTHCARE DRIVEWAY (SOUTH CURB) - CONSTRUCTION EXPECTED 2023
UPON COMPLETION OF THE SOUTHEAST CURB AT SUMMA HEALTHCARE DRIVEWAY, TRAFFIC SHALL REMAIN SHIFTED TO THE NORTH SIDE OF S.R. 18 WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION IN ORDER TO CONSTRUCT THE FOLLOWING REMAINING SOUTH CURB:

- SW CORNER OF S.R.18/SUMMA HEALTHCARE DRIVEWAY

△ PHASE 8 - ENTIRE PROJECT LENGTH - CONSTRUCTION EXPECTED 2023 OR 2024
THE CONTRACTOR SHALL PLACE THE ASPHALT SURFACE COURSE AND THE FINAL PAVEMENT MARKINGS THROUGHOUT THE ENTIRE PROJECT. THE WORK SHALL BE RESTRICTED TO NIGHTTIME HOURS. DURING PLACEMENT OF THE ASPHALT COURSES, TRAFFIC SHALL BE MAINTAINED UNDER FLAGGER CONTROL IN ACCORDANCE WITH MT-97.11. DURING FINAL PAVEMENT MARKING OPERATIONS, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MT-99.20.

MAINTAINING TRAFFIC OVER THE WINTER

ALL EXISTING LANES SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE ORIGINAL OR PROPOSED FINAL ALIGNMENT BETWEEN NOVEMBER 1 AND APRIL 1. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$2,000 PER CALENDAR DAY. IF APPROVED BY THE ENGINEER, THE CONTRACTOR MAY PERFORM OUT-OF-PHASE WORK DURING THE OCTOBER 30 - APRIL 1 WINTER PERIOD.

RESTRICTIONS

VICTOR DRIVE SHALL NOT BE CLOSED CONCURRENTLY WITH THE COMMERCIAL DRIVEWAY IMMEDIATELY TO THE WEST, WHICH SERVES SIGNATURE SQUARE PLAZA.

THE CONTRACTOR SHALL CONSTRUCT FRONTAGE ROAD (NORTH OF SR 18) AND N. FRONTAGE ROAD WHILE MAINTAINING ACCESS TO THE LUTHERAN CHURCH AND BIL-JAC PROPERTIES AT ALL TIMES.

THE CONTRACTOR SHALL CONSTRUCT FROM FRONTAGE ROAD (SOUTH OF SR 18) AND S. FRONTAGE ROAD WHILE MAINTAINING ACCESS TO KINDERCARE AND TACO BELL AT ALL TIMES.

△ THE CONTRACTOR SHALL NOT WORK ON FOOTE ROAD (PHASES 6A-6C AND PHASES 7A-7C) OR RIVER STYX ROAD (PHASES 3A-3E) BEFORE MARCH 1ST, 2023.

ACCESS TO PARCEL 42 (UNIVERSITY HOSPITALS MEDINA HEALTH CENTER) SHALL BE RESTRICTED TO 15 CONSECUTIVE CALENDAR DAYS FOR THE INSTALLATION OF PROPOSED WATERLINE TIE-IN.

PARKING IMPACTS TO PARCEL 64 (CARLSON FUNERAL HOMES) SHALL BE RESTRICTED TO 60 CONSECUTIVE CALENDAR DAYS.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO PARCEL 86 (ALDI) VIA THE EXISTING DRIVEWAY AT STA. 173+70 RT. UNTIL THE SOUTH FRONTAGE ROAD IS CONSTRUCTED.

△ THE CONTRACTOR SHALL NOT BEGIN PHASE 2 WORK BEFORE MARCH 1ST, 2022.

THE CONTRACTOR SHALL CONSTRUCT RIVER STYX ROAD PROVIDED IN PART 1 CONCURRENTLY WITH RIVER STYX ROAD IMPROVEMENTS PROVIDED IN PART 2.

MAINTAINING TRAFFIC DURING SIDE ROAD CONSTRUCTION

THE FOLLOWING (ASPHALT) SIDE ROADS SHALL BE CONSTRUCTED PART-WIDTH DURING NIGHTTIME HOURS WHILE MAINTAINING TWO-WAY, ONE-LANE TRAFFIC UNDER FLAGGER CONTROL. THE CONTRACTOR SHALL BACKFILL OR PLATE ANY EXCAVATED AREAS PRIOR TO OPENING THE SIDE ROAD TO TWO-WAY, TWO-LANE TRAFFIC BY 6:00AM DAILY.

- W. HOSPITAL DRIVEWAY (PHASE 3)
- SUMMA HEALTHCARE DRIVEWAY (PHASE 6)
- BUEHLER DRIVE (PHASE 6)

THE FOLLOWING (ASPHALT) SIDE ROADS SHALL BE CONSTRUCTED PART-WIDTH DURING OFF-PEAK HOURS WHILE MAINTAINING TWO-WAY, ONE-LANE TRAFFIC UNDER FLAGGER CONTROL. THE CONTRACTOR SHALL BACKFILL OR PLATE ANY EXCAVATED AREAS PRIOR TO OPENING THE SIDE ROAD TO TWO-WAY, TWO-LANE TRAFFIC.

- ALBER DRIVE (PHASE 2)
- GLENSHIRE LANE (PHASE 2)
- WATERFORD DRIVE (PHASE 6)
- RETREAT DRIVE (PHASE 7)
- RUSTIC HILLS DRIVE (PHASE 3)

THE FOLLOWING (CONCRETE) SIDE ROADS SHALL BE CONSTRUCTED PART-WIDTH WHILE MAINTAINING TWO-WAY, TWO-LANE TRAFFIC AT ALL TIMES:

- FOOTE ROAD (PHASES 6A-6C AND 7A-7C)
- BURGUNDY BAY BOULEVARD (PHASE 7A-7B)
- VILLAGE GATE DRIVE (PHASE 7A-7B)
- SHADY BROOKE LANE (PHASE 2A-2D)
- RIVER STYX ROAD (PHASE 3A, 3B, AND 3E)

THE FOLLOWING (ASPHALT) SIDE ROAD SHALL BE CONSTRUCTED PART-WIDTH WHILE MAINTAINING TWO-WAY, TWO-LANE TRAFFIC AT ALL TIMES:

- E. HOSPITAL DRIVEWAY (PHASE 3A-3B)

INTERIM CONSTRUCTION COMPLETION DATE

- △ 1. ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC BETWEEN NOVEMBER 15 AND MARCH 31 OF THE FOLLOWING YEAR. THESE TIME FRAMES ARE DEFINED AS THE WINTER PERIODS. NOVEMBER 14 SHALL BE CONSIDERED AN INTERIM COMPLETION DATE. IF THE CONTRACTOR FAILS TO MEET THESE REQUIREMENTS, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE OF \$2,000 FOR EACH CALENDAR DAY THAT ALL EXISTING LANES ARE NOT OPEN AND AVAILABLE TO THE PUBLIC.
2. WORK MAY PROCEED DURING THE WINTER PERIODS IN AREAS OUTSIDE OF PAVEMENTS THAT ARE NOT OPEN TO THE PUBLIC, THAT DO NOT REQUIRE A LANE CLOSURE, OR AFFECT THE TRAVELING PUBLIC.
3. WITH THE APPROVAL OF THE ENGINEER, WORK MAY PROCEED DURING THE WINTER PERIODS NOTED IN ITEM 1 IN AREAS WITHIN THE STREETS OPEN TO THE PUBLIC. IN THIS CASE, THE LANE CLOSURE MAY ONLY BE IN EFFECT WHILE CONSTRUCTION WORK IS BEING PERFORMED. AT THE END OF EACH WORK DAY, ALL LANE CLOSURES MUST BE REMOVED, TRENCHES FILLED AND TRAFFIC RETURNED TO NORMAL OPERATION. THERE WILL BE NO WORK ON THE PROJECT WHEN ROAD MAINTENANCE CREWS ARE TREATING OR PLOWING FOR SNOW OR ICE WITHIN THE PROJECT LIMITS.
4. ANY COSTS ASSOCIATED WITH RESTORING THE ROADWAY FOR WORK PERFORMED OUTSIDE OF THE PLAN SEQUENCE OF CONSTRUCTION DURING THE WINTER MONTHS SHALL BE BORNE BY THE CONTRACTOR. THE ROADWAY SURFACE SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THE ROADWAY RESTORATION COSTS SHALL BE CONSIDERED INCIDENTAL TO THE APPLICABLE ITEMS OF WORK.

NO.	DESCRIPTION	REV. BY	DATE
1	ADDED CONSTRUCTION YEAR	AKF	12/17/20

SEEDING	NO.	DESCRIPTION	REV. BY	DATE
END WIDTH	1	MOVED CROSS SECTION	AKF	12/23/20

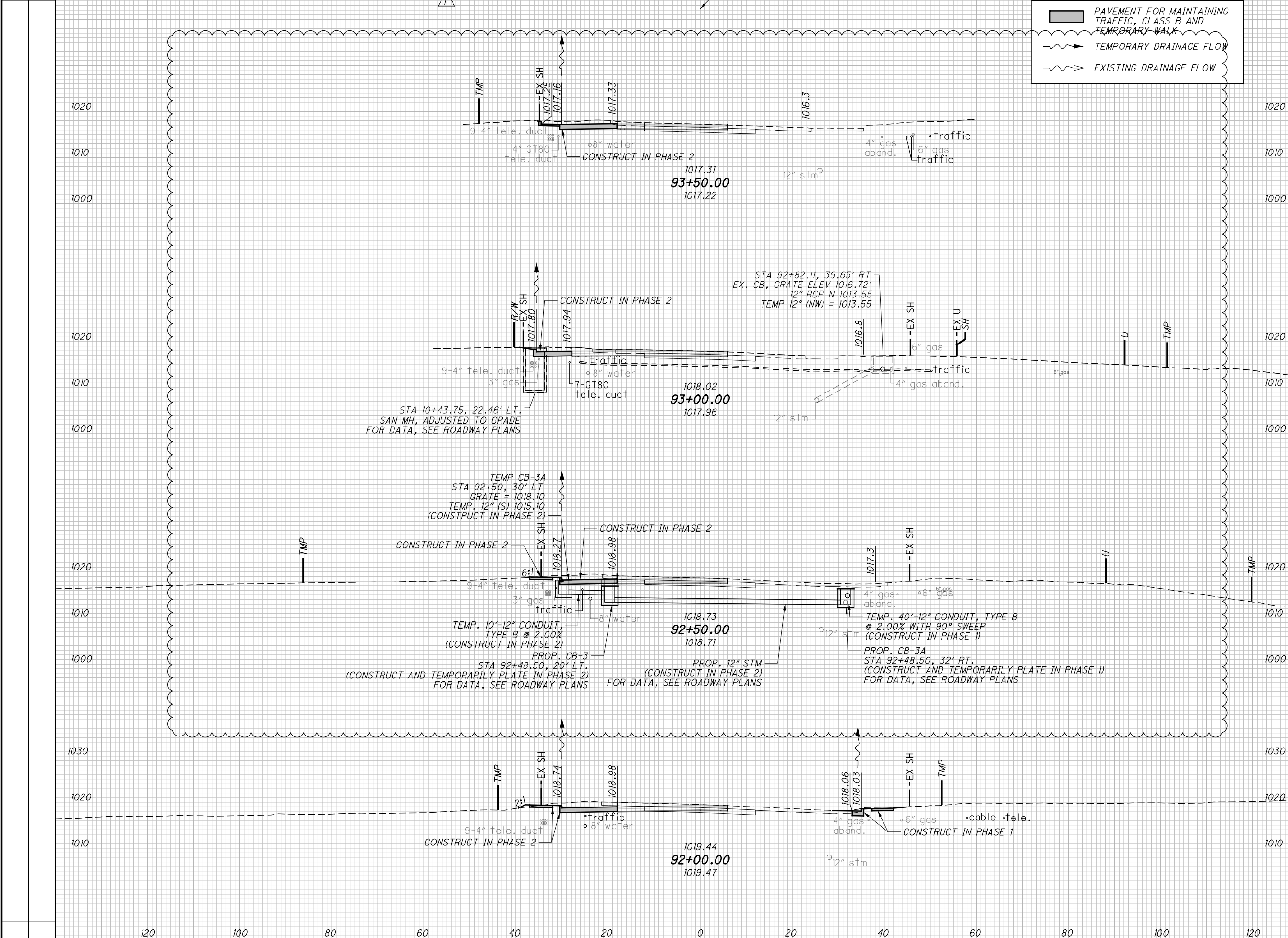
LEGEND

- PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B AND TEMPORARY WALK
- TEMPORARY DRAINAGE FLOW
- EXISTING DRAINAGE FLOW

END AREA	VOLUME	CALCULATED	CHECKED	LOB
3.8	0			
1.4	0			
1.3	0			
7.8	0			
37	0			

**MAINTENANCE OF TRAFFIC CROSS SECTIONS
S.R. 18 PHASE 2 - STA. 92+00 TO STA. 93+50**

MED - 18 - 12.99



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SEEDING	NO.	DESCRIPTION	REV. BY	DATE
END WIDTH	1	MOVED CROSS SECTION	AKF	12/23/20

LEGEND

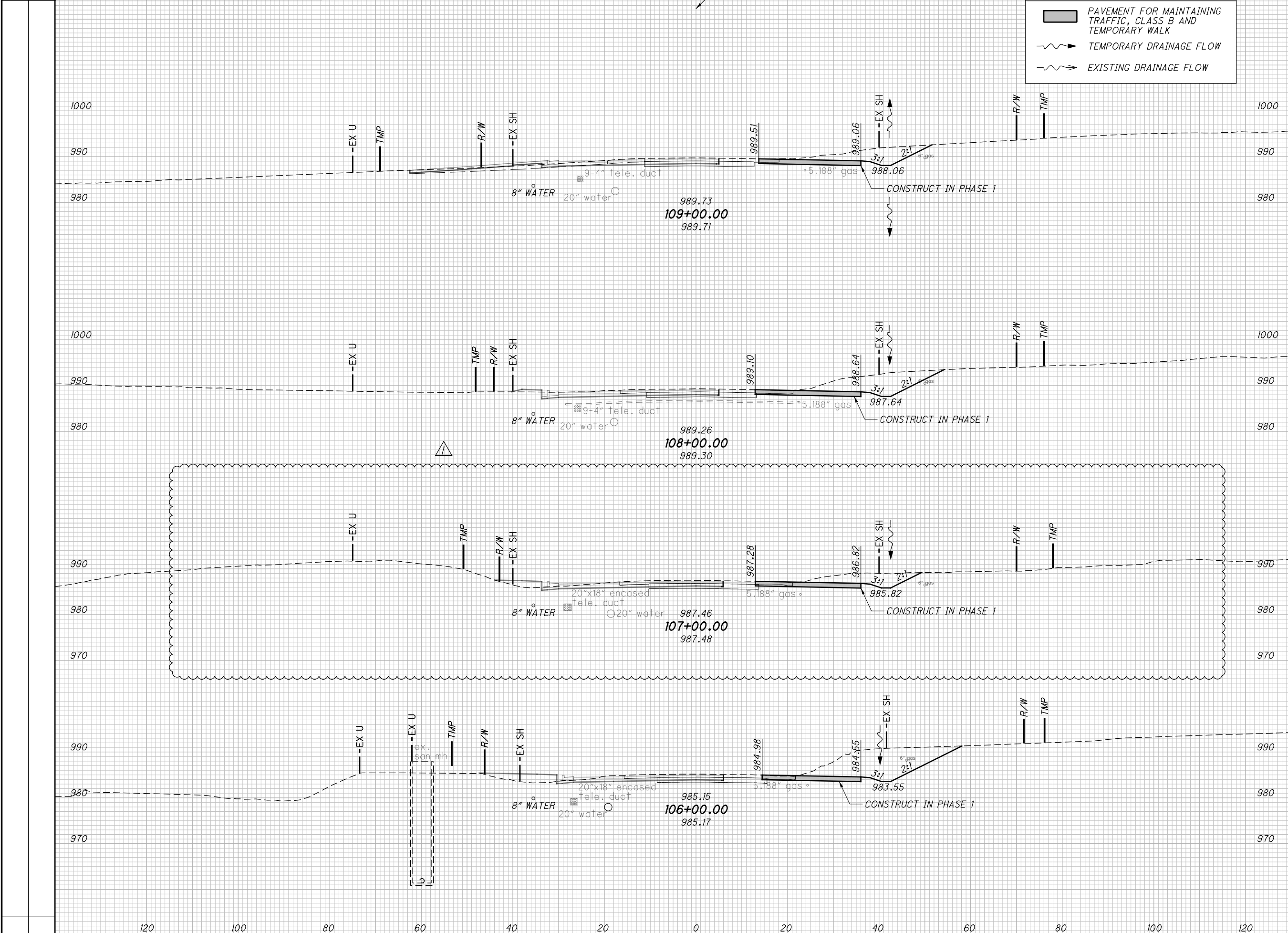
- PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B AND TEMPORARY WALK
- TEMPORARY DRAINAGE FLOW
- EXISTING DRAINAGE FLOW

END AREA	VOLUME	CALCULATED	CHECKED	LOB
10.6	0			
10.1	0			
10.5	0			
14	0			
147	0			

MAINTENANCE OF TRAFFIC CROSS SECTIONS
S.R. 18 PHASE 2 - STA. 106+00 TO STA. 109+00

MED-18-12.99

250
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SEEDING	NO.	DESCRIPTION	REV. BY	DATE
END WIDTH	1	MOVED CROSS SECTION	AKF	12/23/20

LEGEND

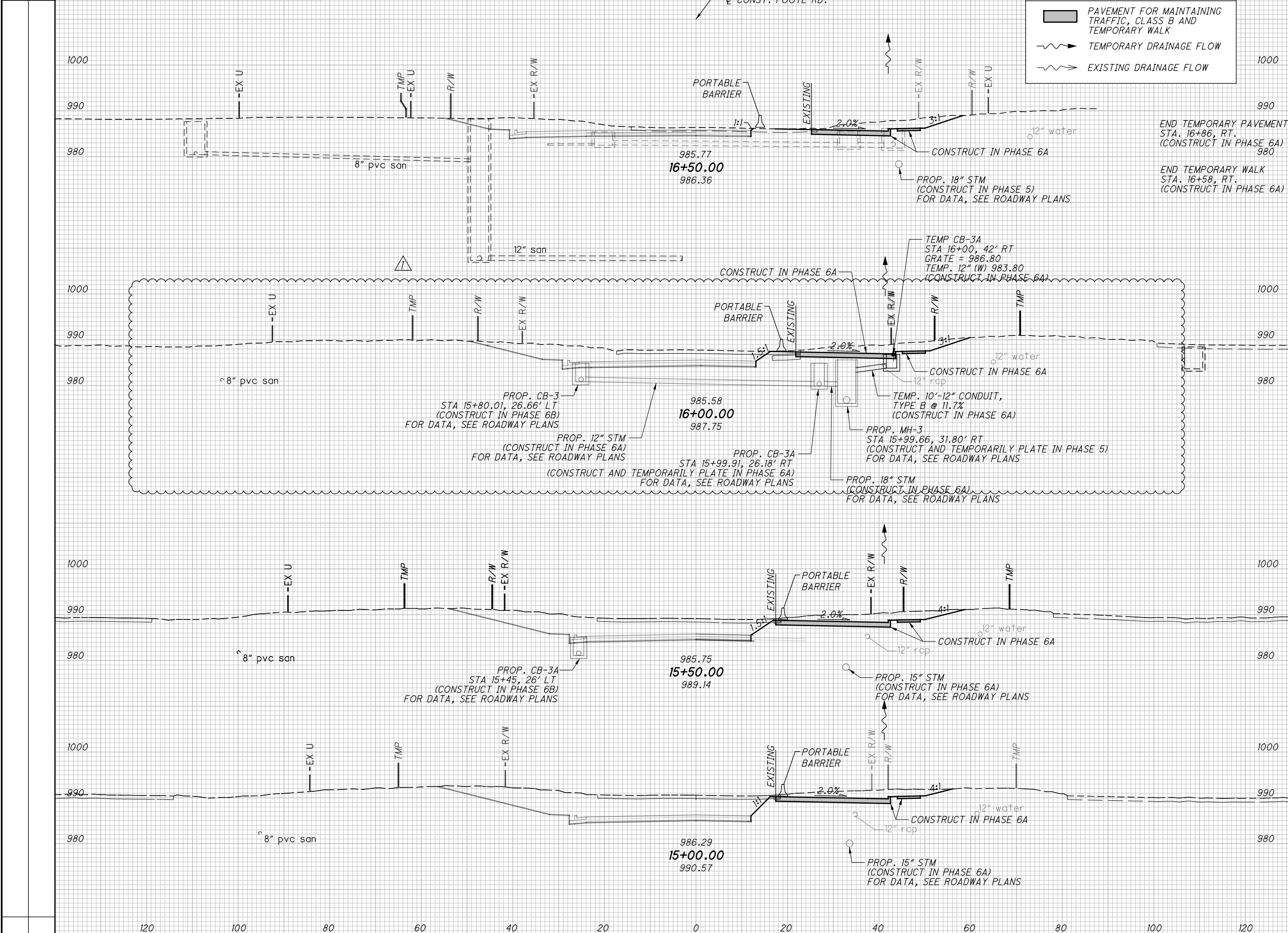
- PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B AND TEMPORARY WALK
- TEMPORARY DRAINAGE FLOW
- EXISTING DRAINAGE FLOW

END STA.	AREA		VOLUME		CALCULATED	CHECKED	LOB
	CUT	FILL	CUT	FILL			
16+86	0	0	0	0			
16+58	0	0	0	0			
16+00	0	0	0	0			
15+99	0	0	0	0			
15+50	0	0	0	0			
15+00	0	0	0	0			
14+50	0	0	0	0			
14+00	0	0	0	0			
13+50	0	0	0	0			
13+00	0	0	0	0			
12+50	0	0	0	0			
12+00	0	0	0	0			
11+50	0	0	0	0			
11+00	0	0	0	0			
10+50	0	0	0	0			
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9+00	0	0	0	0			
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7+50	0	0	0	0			
7+00	0	0	0	0			
6+50	0	0	0	0			
6+00	0	0	0	0			
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5+00	0	0	0	0			
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3+00	0	0	0	0			
2+50	0	0	0	0			
2+00	0	0	0	0			
1+50	0	0	0	0			
1+00	0	0	0	0			
0+50	0	0	0	0			
0+00	0	0	0	0			

**MAINTENANCE OF TRAFFIC CROSS SECTIONS
FOOTE RD. PHASE 6B - STA. 15+00 TO STA. 16+50**

MED-18-12.99

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SHEET NO.	SPECIAL			SPECIAL			SPECIAL			SPECIAL			SPECIAL			SPECIAL			SPECIAL			SPECIAL																			
	8" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS (CITY OF MEDINA)			12" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS (CITY OF MEDINA)			6" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (MEDINA COUNTY)			8" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (MEDINA COUNTY)			12" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (MEDINA COUNTY)			WATER WORK, MISC.: WATER SERVICE CONNECTION, "EXTENSION" (CITY OF MEDINA)			WATER WORK, MISC.: WATER SERVICE CONNECTION, "EXTENSION" (MEDINA COUNTY)			WATER WORK, MISC.: WATER SERVICE CONNECTION, "RECONNECTION" (MEDINA COUNTY)			WATER WORK, MISC.: WATER SERVICE CONNECTION, "RECONNECTION" (CITY OF MEDINA)			6" GATE VALVE WITH VALVE BOX (MEDINA COUNTY)			8" GATE VALVE WITH VALVE BOX (CITY OF MEDINA)			8" GATE VALVE WITH VALVE BOX (MEDINA COUNTY)							
	FT			FT			FT			FT			FT			EACH			EACH			EACH			EACH			EACH			EACH			EACH							
	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	07/ENH/OT	01/NHS/PV 02/NHS/PV	06/ENH/OT		03/ENH/PV 04/ENH/PV	06/ENH/OT	03/ENH/PV 04/ENH/PV	06/ENH/OT	03/ENH/PV 04/ENH/PV	06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT	06/ENH/OT	07/ENH/OT		06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT		06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT		06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT		06/ENH/OT				
319	1301	605	669	20			1374						2	5			3			2	1	3					2														
320							49	225			3416								2																						
321					69										4	2																									
322																																									
TOTALS CARRIED TO GENERAL SUMMARY	1301	605	669	20	69		1423	225		3416			2	5	4	2	3		2	2	1	3				2	2														
SHEET NO.	SPECIAL		SPECIAL				SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL			SPECIAL			SPECIAL			SPECIAL			SPECIAL			SPECIAL									
	12" GATE VALVE WITH VALVE BOX (CITY OF MEDINA)		12" GATE VALVE WITH VALVE BOX (MEDINA COUNTY)		FIRE HYDRANT AND GATE VALVE REMOVED AND RESET (CITY OF MEDINA)				FIRE HYDRANT AND GATE VALVE REMOVED AND RESET (MEDINA COUNTY)		FIRE HYDRANT SERVICE LINE EXTENDED AND ADJUSTED TO GRADE (CITY OF MEDINA)		FIRE HYDRANT SERVICE LINE EXTENDED AND ADJUSTED TO GRADE (MEDINA COUNTY)		12" X 6" TAPPING SLEEVE, VALVE AND VALVE BOX (MEDINA COUNTY)		12" X 8" TAPPING SLEEVE, VALVE AND VALVE BOX (MEDINA COUNTY)		12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX (MEDINA COUNTY)		6" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (MEDINA COUNTY)			8" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (CITY OF MEDINA)			8" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (MEDINA COUNTY)			12" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (CITY OF MEDINA)			12" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (MEDINA COUNTY)			CUT AND PLUG EXISTING 24" WATER LINE (CITY OF MEDINA)			WATER WORK, MISC.: FIRE VAULT (MEDINA COUNTY)		
	EACH		EACH		EACH				EACH		EACH		EACH		EACH		EACH			EACH			EACH			EACH			EACH			EACH									
	01/NHS/PV 02/NHS/PV	06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT	01/NHS/PV 02/NHS/PV	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT	07/ENH/OT	07/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT			
319	1		3	2	2		2										5	2			1																				
320		4				8		2	1				1	2																											
321																																									
322																																									
TOTALS CARRIED TO GENERAL SUMMARY	1	4	3	2	2	8	2	2	1	1	2		2	5	4	3	1				12	1																			

NO.	DESCRIPTION	REV. BY	DATE
1	REVISED QUANTITIES AND UPDATED PIPE MATERIAL	TMT	2-17-2020

REF. NO.	SHEET NO.	STATION		SIDE	SPECIAL			638		SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		CALCULATED LRK CHECKED MDG	
		FROM	TO		FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH						
W-701	714	115+72.68 (S.R. 18)		RT																			
W-702	714	116+66.00 (S.R. 18)		RT																			
W-703	716	117+80.69 (S.R. 18)		RT																			
W-704	716	117+86.76 (S.R. 18)		LT																			
W-705	718	122+73.71 (S.R. 18)		RT																			
W-706	720	127+84.86 (S.R. 18)		RT																			
W-707	722	134+06.83 (S.R. 18)		LT																			
W-708	722	136+46.21 (S.R. 18)		LT																			
W-709	724	139+79.59 (S.R. 18)		LT																			
W-710	726	143+40.14 (S.R. 18)		LT																			
W-711	728	148+80.39 (S.R. 18)		LT																			
W-713	730	152+47.54 (S.R. 18)		LT																			
W-714	373	161+74.23 (S.R. 18)		RT																			
W-718	736	172+80.80 (S.R. 18)	172+81.04 (S.R. 18)	RT																			
W-719	736	174+80.44 (S.R. 18)		RT																			
W-720	736	174+91.94 (S.R. 18)		RT																			
W-721	740	183+69.58 (S.R. 18)		RT																			
W-722	387	191+40.01 (S.R. 18)		RT																			
W-723	714	115+70.20 (S.R. 18)	116+25.08 (S.R. 18)	RT																			
W-725	718	122+73.71 (S.R. 18)	123+24.56 (S.R. 18)	LT/RT																			
W-727	718 - 720	126+56.39 (S.R. 18)	128+39.52 (S.R. 18)	RT																			
W-728	722 - 724	133+26.62 (S.R. 18)	139+92.09 (S.R. 18)	LT																			
W-729	722	134+07.24 (S.R. 18)	134+08.28 (S.R. 18)	LT																			
W-730	722	136+46.21 (S.R. 18)	136+46.21 (S.R. 18)	LT																			
W-731	726 - 730	142+79.88 (S.R. 18)	152+84.59 (S.R. 18)	LT																			
W-732	728	148+80.39 (S.R. 18)	148+86.16 (S.R. 18)	LT																			
W-734	736 - 738	172+25.00 (S.R. 18)	180+57.34 (S.R. 18)	RT																			
W-736	736	174+67.32 (S.R. 18)	174+94.39 (S.R. 18)	RT																			
W-737	728	147+11.45 (S.R. 18)	147+11.51 (S.R. 18)	LT																			
W-738	728	149+17.94 (S.R. 18)	149+17.94 (S.R. 18)	LT																			
W-739	716	117+48.91 (S.R. 18)		LT																			
W-741	740	183+58.08 (S.R. 18)	183+58.08 (S.R. 18)	RT																			
W-742	740	183+58.08 (S.R. 18)		RT																			
W-743	740	183+45.41 (S.R. 18)	183+54.58 (S.R. 18)	RT																			
W-744	740	183+43.24 (S.R. 18)	183+59.58 (S.R. 18)	RT																			
W-745	730	152+66.29 (S.R. 18)	152+66.96 (S.R. 18)	LT																			
W-746	714-716, 750	19+91.39 (FOOTE)	117+80.69 (S.R. 18)	LT/RT																			
W-750	728	150+68.98 (S.R. 18)	150+68.98 (S.R. 18)	LT																			
W-751	400	903+64.33 (RIVER STYX)	904+07.85 (RIVER STYX)	RT																			
W-752	750	19+73.61 (FOOTE)		RT																			
W-799	716	117+46.41 (S.R. 18)	117+51.41 (S.R. 18)	LT																			
TOTALS CARRIED TO SUBSUMMARY ON SHEET 298																							

WATER WORK ESTIMATED QUANTITIES

MED - 18 - 12.99

NO.	DESCRIPTION	REV. BY	DATE
1	UPDATED W-704 & W-713 STATIONS, REVISED W-751 QUANTITY, UPDATED PIPE MATERIAL	TMT	12-17-2020

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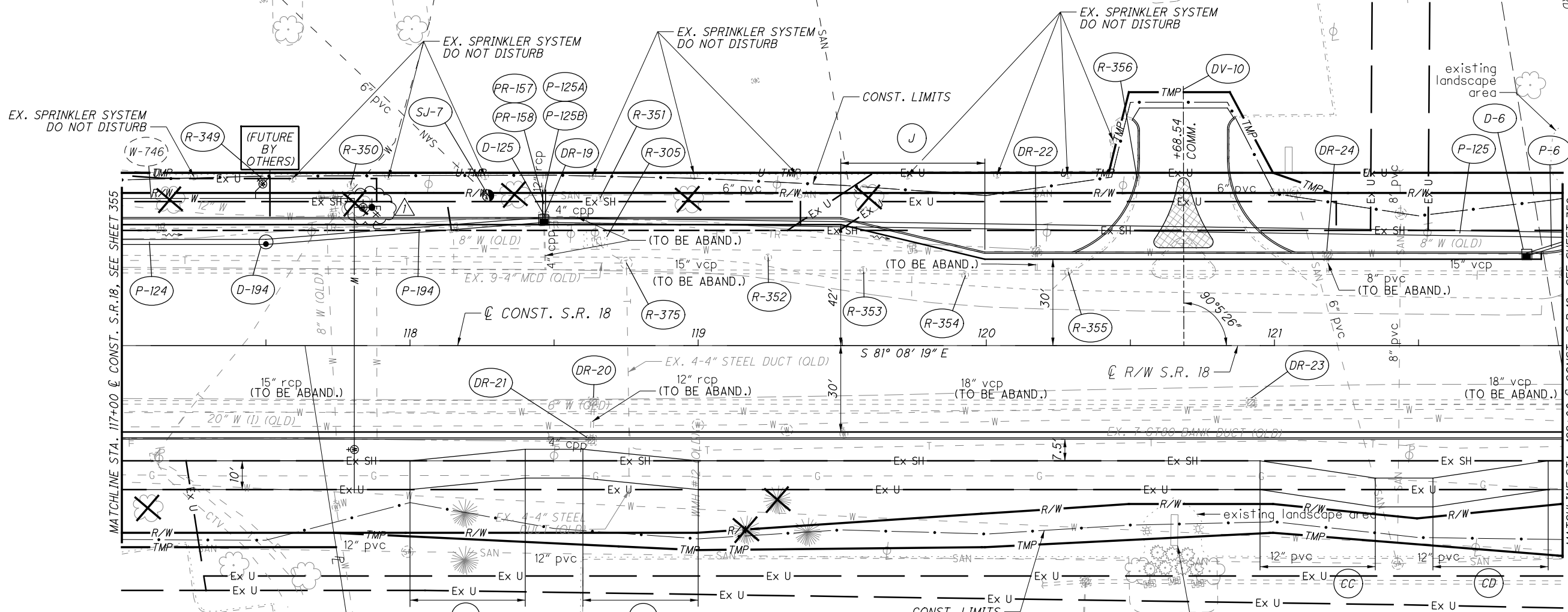
WESTERN RESERVE OF MEDINA, LIMITED
3985/3995/4015 MEDINA ROAD

COMMERCIAL BUILDING

THE BOARD OF TRUSTEES OF THE
PRESBYTERY OF THE WESTERN RESERVE
5020 BURGUNDY BOULEVARD

CALCULATED
ATR
CHECKED
MDG

0 20 40
HORIZONTAL
SCALE IN FEET



MATCHLINE STA. 117+00 @ CONST. S.R. 18, SEE SHEET 355

MATCHLINE STA. 122+00 @ CONST. S.R. 18, SEE SHEET 359

NO.	DESCRIPTION	REV. BY	DATE
1	MOVED FIRE HYDRANT	TMT	12-17-2020

FOR @ OF R/W DETAILS, SEE SHEETS 9 - 14
FOR S.R. 18 PROFILE, SEE SHEET 358
FOR DRIVE DETAILS AND PROFILES, SEE SHEETS 607 - 639
FOR ESTIMATED QUANTITIES, SEE SHEETS 299 - 336
FOR UNDERDRAIN DETAILS, SEE SHEETS 660 - 674
FOR WATER WORK PLANS, SEE SHEETS 706 - 751

ITEM 609 - CONCRETE MEDIAN

TAPER CODE	BEGINNING STATION	ENDING STATION	SIDE	DESCRIPTION	BEGIN WIDTH	END WIDTH	TAPER RATE
J	119+49.47	S.R. 18 119+99.47	S.R. 18	LT PAVEMENT	42.00'	30.00'	4:1
CA	118+00.00	S.R. 18 118+40.00	S.R. 18	RT WALK OFFSET	40.00'	36.00'	10:1
CB	118+60.00	S.R. 18 119+00.00	S.R. 18	RT WALK OFFSET	36.00'	40.00'	10:1
CC	120+95.00	S.R. 18 121+35.00	S.R. 18	RT WALK OFFSET	40.00'	46.00'	7:1
CD	121+55.00	S.R. 18 121+95.00	S.R. 18	RT WALK OFFSET	46.00'	40.00'	7:1

PLAN - S.R. 18
STA. 117+00 TO STA. 122+00

MED - 18 - 12.99

357
1085

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4018 EVERGREEN PROPERTIES, LLC
4018 MEDINA ROAD

4000 CARRICK PLACE, LLC
4000 CARRICK DRIVE

COMMERCIAL BUILDING

COMMERCIAL BUILDING

FOR C/O OF R/W DETAILS, SEE SHEETS 9-14
 FOR S.R. 18 PROFILE, SEE SHEET 372
 FOR SIDE ROAD PROFILES, SEE SHEET 415
 FOR INTERSECTION AND SIDE ROAD
 DIMENSION DETAILS, SEE SHEETS 545 - 565
 FOR ESTIMATED QUANTITIES, SEE SHEETS 299 - 336
 FOR UNDERDRAIN DETAILS, SEE SHEETS 660 - 674
 FOR PIPE PROFILES, SEE SHEETS 461 - 462
 FOR WATER WORK PLANS, SEE SHEETS 706 - 751

A MASONRY COLLAR PER DM-1.1
ITEM 609 - CONCRETE MEDIAN



CALCULATED
 ATR
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 MDG

8 C/O CONST. S.R. 18
 P.I. Sta. 155+20.69
 $\Delta = 5^\circ 17' 49''$ (LT)
 $D_c = 1^\circ 00' 00''$
 $R = 5,729.58'$
 $T = 265.04'$
 $L = 529.70'$
 $E = 6.13'$
 $C = 529.51'$
 $C.B. = S 84^\circ 59' 52'' E$
 $e_{max} = NC$
 P.C. Sta. 152+55.65
 P.T. Sta. 157+85.35

21 C/O CONST. BUEHLER DR.
 P.I. Sta. 8+62.50
 $\Delta = 39^\circ 29' 43''$ (RT)
 $D_c = 29^\circ 15' 00''$
 $R = 195.88'$
 $T = 70.32'$
 $L = 135.03'$
 $E = 12.24'$
 $C = 132.37'$
 $C.B. = N 14^\circ 23' 33'' W$
 $e_{max} = NC$
 P.C. Sta. 7+92.18
 P.T. Sta. 9+27.21

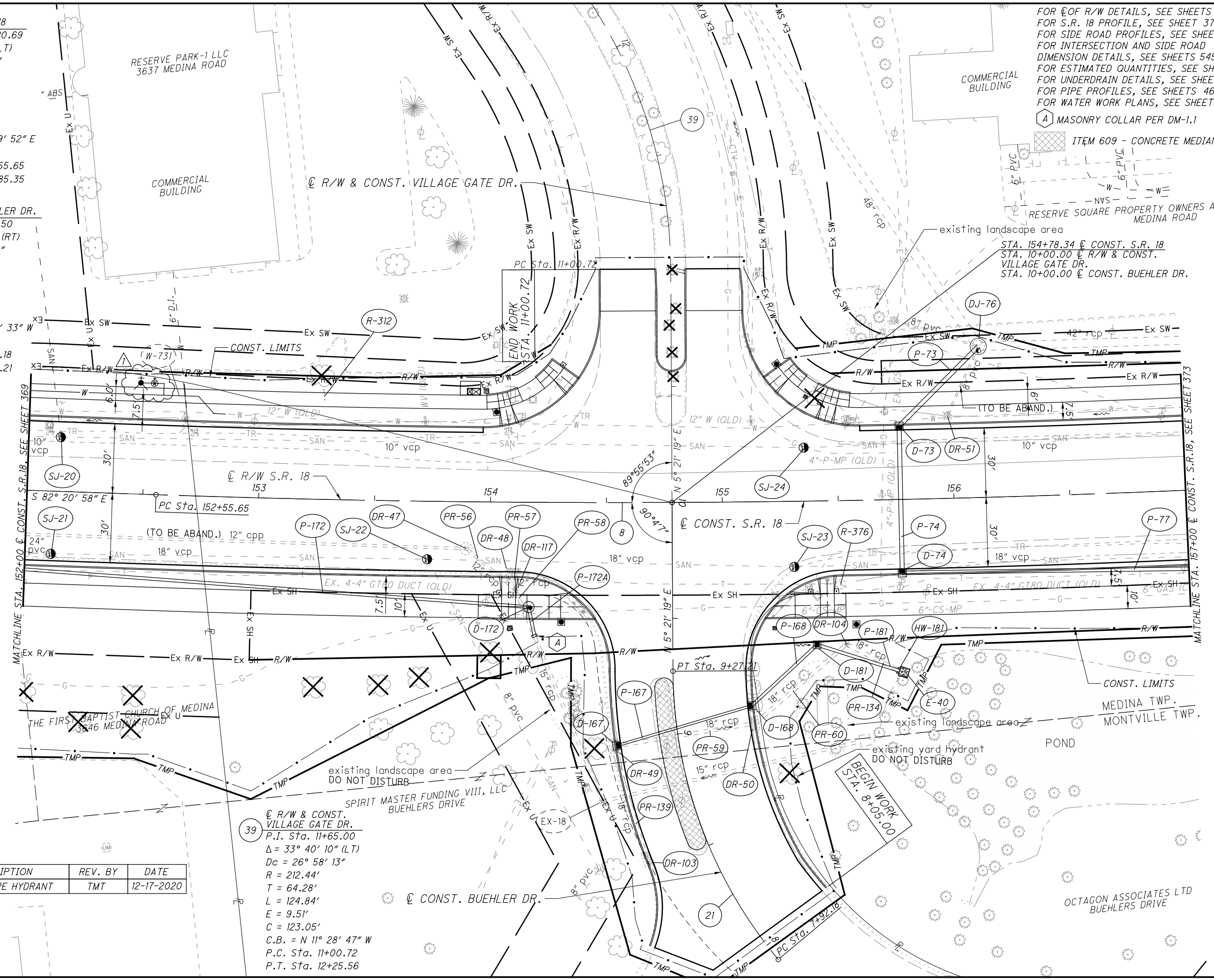
39 C/O R/W & CONST. VILLAGE GATE DR.
 P.I. Sta. 11+65.00
 $\Delta = 33^\circ 40' 10''$ (LT)
 $D_c = 26^\circ 58' 13''$
 $R = 212.44'$
 $T = 64.28'$
 $L = 124.84'$
 $E = 9.51'$
 $C = 123.05'$
 $C.B. = N 11^\circ 28' 47'' W$
 P.C. Sta. 11+00.72
 P.T. Sta. 12+25.56

NO.	DESCRIPTION	REV. BY	DATE
1	MOVED FIRE HYDRANT	TMT	12-17-2020

PLAN - S.R. 18
 STA. 152+00 TO STA. 157+00

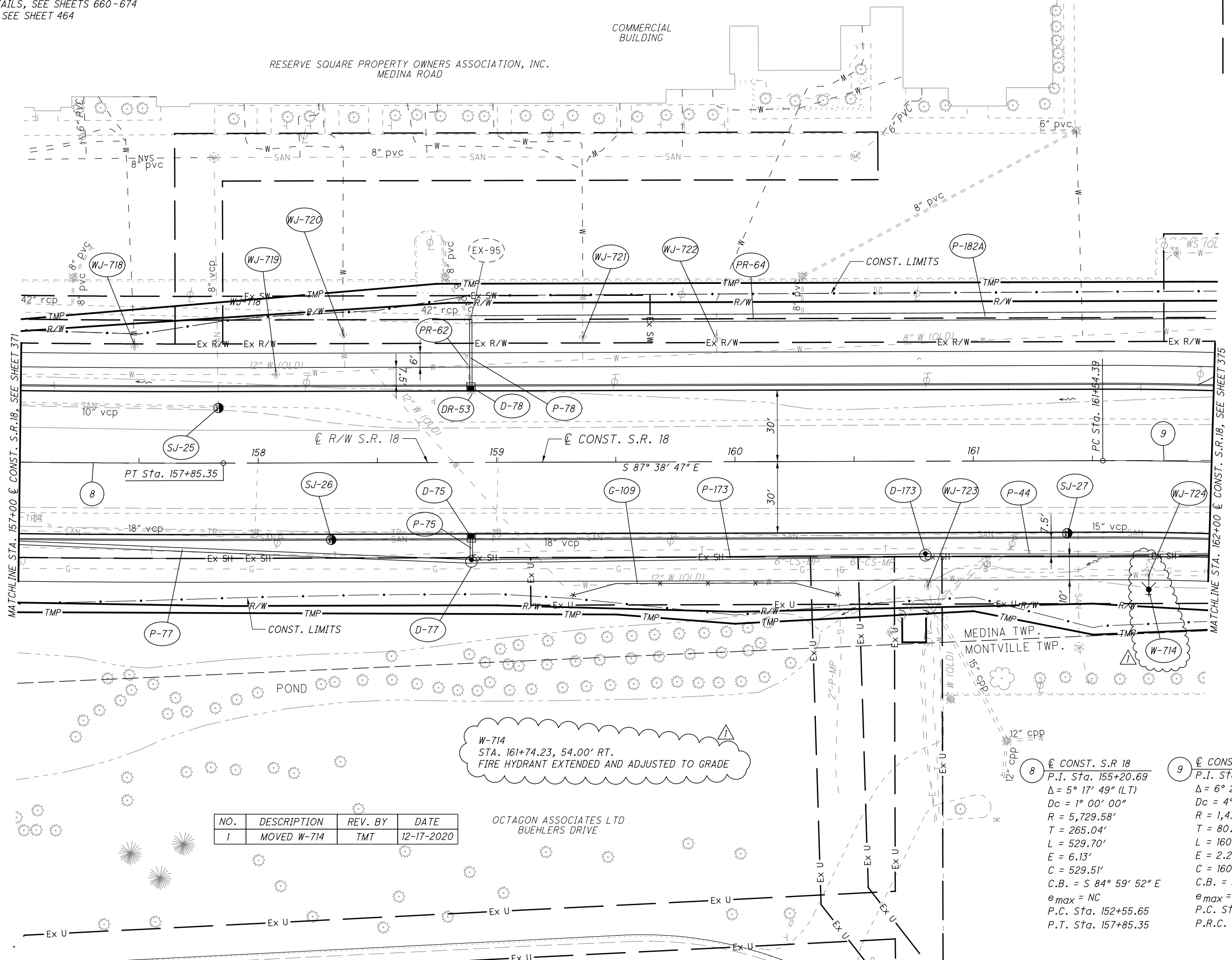
MED-18-12.99

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FOR ϕ OF R/W DETAILS, SEE SHEETS 9-14
 FOR S.R. 18 PROFILE, SEE SHEET 374
 FOR ESTIMATED QUANTITIES, SEE SHEETS 299-336
 FOR UNDERDRAIN DETAILS, SEE SHEETS 660-674
 FOR PIPE PROFILES, SEE SHEET 464



NO.	DESCRIPTION	REV. BY	DATE
1	MOVED W-714	TMT	12-17-2020

W-714
 STA. 161+74.23, 54.00' RT.
 FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE

NO.	DESCRIPTION	REV. BY	DATE
8	ϕ CONST. S.R. 18 P.I. Sta. 155+20.69 $\Delta = 5^\circ 17' 49''$ (LT) $D_c = 1^\circ 00' 00''$ $R = 5,729.58'$ $T = 265.04'$ $L = 529.70'$ $E = 6.13'$ $C = 529.51'$ $C.B. = S 84^\circ 59' 52'' E$ $e_{max} = NC$ P.C. Sta. 152+55.65 P.T. Sta. 157+85.35		
9	ϕ CONST. S.R. 18 P.I. Sta. 162+34.80 $\Delta = 6^\circ 25' 34''$ (RT) $D_c = 4^\circ 00' 00''$ $R = 1,432.40'$ $T = 80.41'$ $L = 160.65'$ $E = 2.26'$ $C = 160.57'$ $C.B. = S 84^\circ 26' 00'' E$ $e_{max} = NC$ P.C. Sta. 161+54.39 P.R.C. Sta. 163+15.04		

PLAN - S.R. 18
 STA. 157+00 TO STA. 162.00

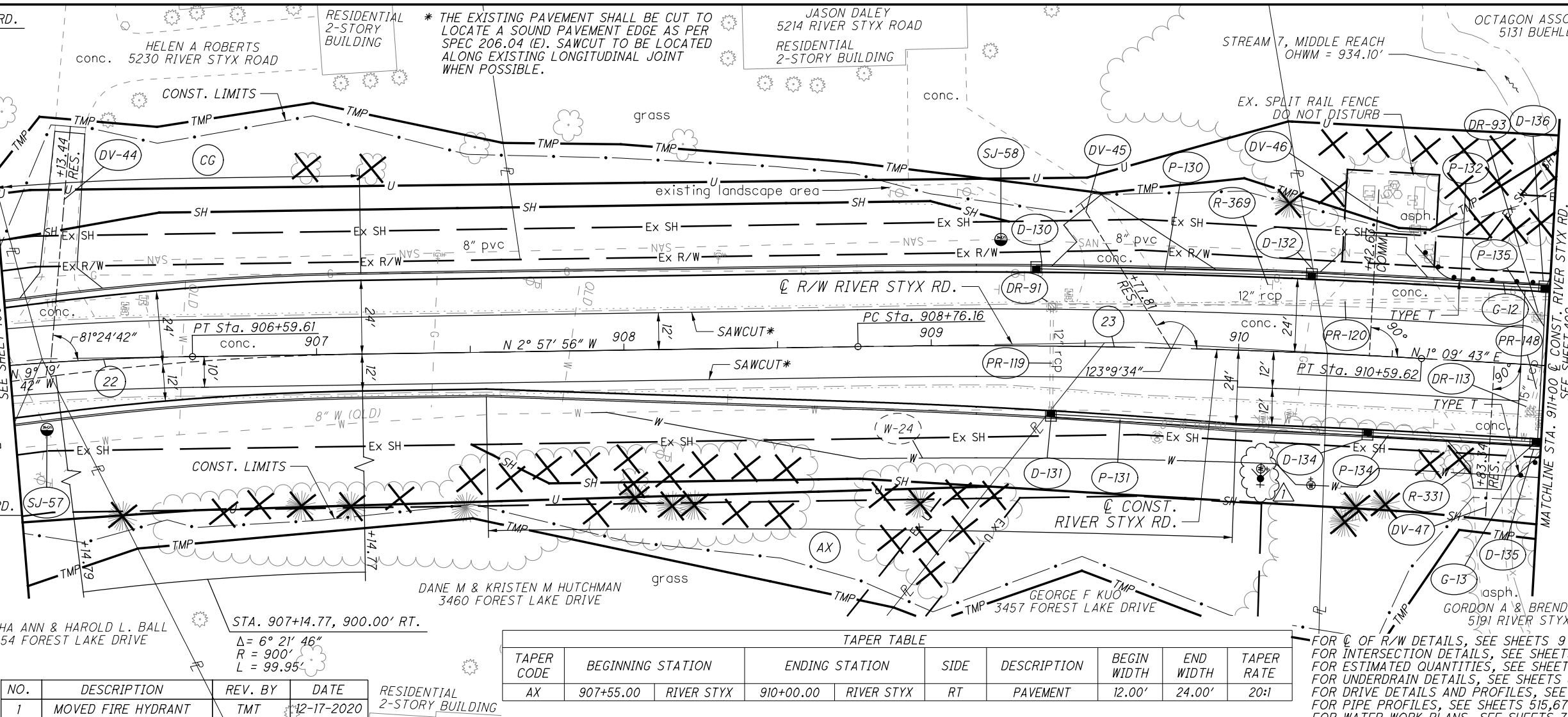
MED-18-12.99

373
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22 \bar{C} CONST. RIVER STYX RD.
 P.I. Sta. 906+10.71
 $\Delta = 6^\circ 21' 46''$ (RT)
 $D_c = 6^\circ 30' 00''$
 $R = 881.47'$
 $T = 48.99'$
 $L = 97.89'$
 $E = 1.36'$
 $C = 97.84'$
 $C.B. = N 6^\circ 08' 49'' W$
 $e_{max} = NC$
 P.C. Sta. 905+61.72
 P.T. Sta. 906+59.61

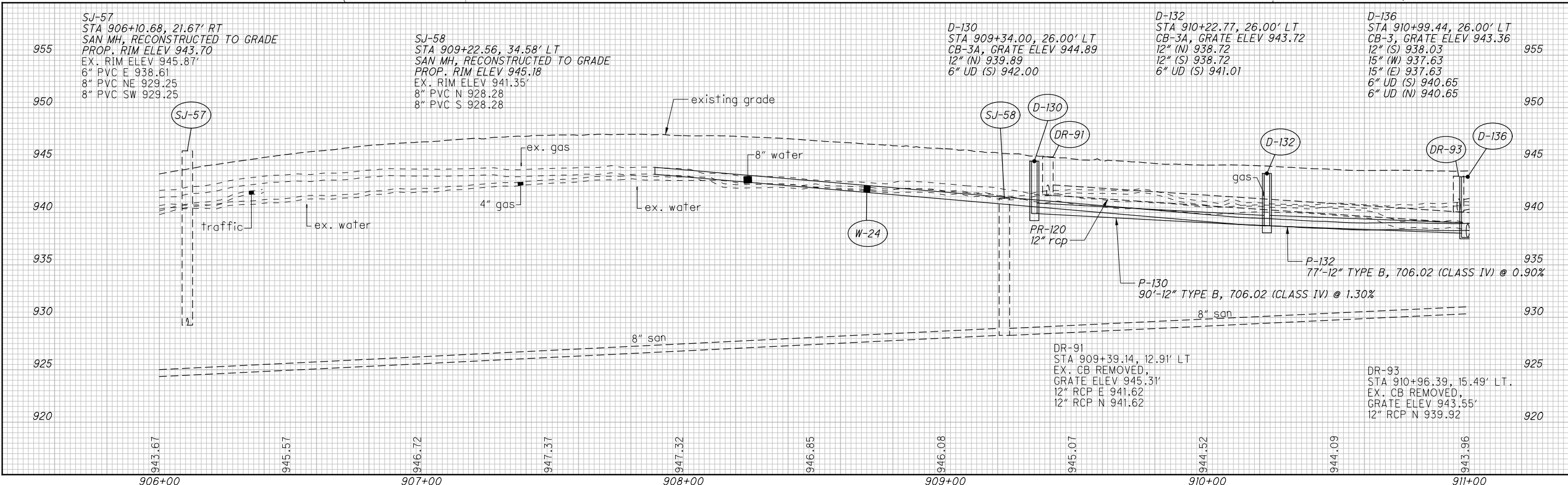
23 \bar{C} CONST. RIVER STYX RD.
 P.I. Sta. 909+67.93
 $\Delta = 4^\circ 07' 40''$ (RT)
 $D_c = 2^\circ 15' 00''$
 $R = 2,546.48'$
 $T = 91.77'$
 $L = 183.46'$
 $E = 1.65'$
 $C = 183.42'$
 $C.B. = N 0^\circ 54' 07'' W$
 $e_{max} = NC$
 P.C. Sta. 908+76.16
 P.T. Sta. 910+59.62



NO.	DESCRIPTION	REV. BY	DATE
1	MOVED FIRE HYDRANT	TMT	12-17-2020

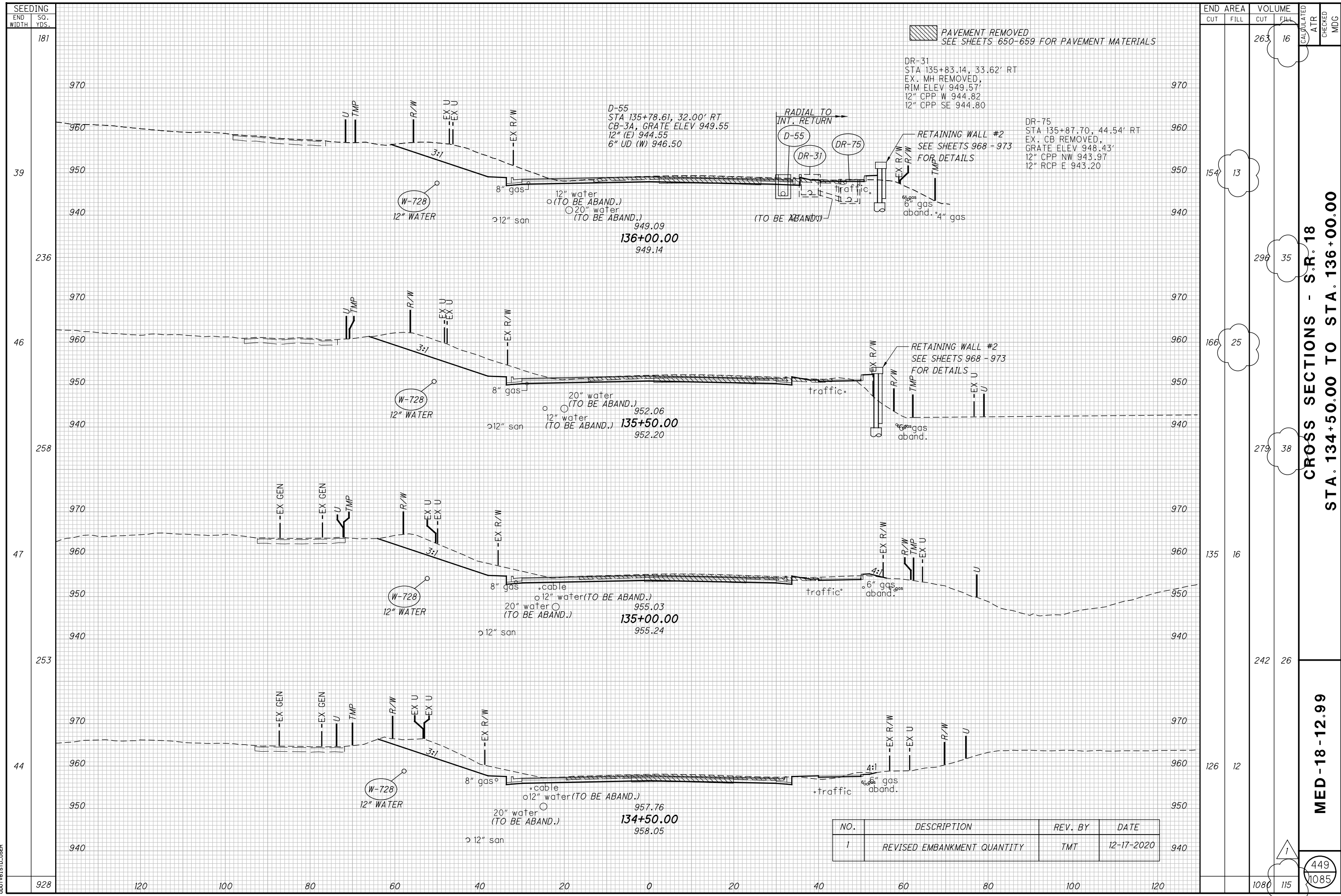
TAPER CODE	BEGINNING STATION	ENDING STATION	SIDE	DESCRIPTION	BEGIN WIDTH	END WIDTH	TAPER RATE
AX	907+55.00	RIVER STYX	910+00.00	RIVER STYX	RT	PAVEMENT	12.00' 24.00' 20:1

FOR \bar{C} OF R/W DETAILS, SEE SHEETS 9-14
 FOR INTERSECTION DETAILS, SEE SHEETS 545-565
 FOR ESTIMATED QUANTITIES, SEE SHEETS 299-336
 FOR UNDERDRAIN DETAILS, SEE SHEETS 660-674
 FOR DRIVE DETAILS AND PROFILES, SEE SHEETS 607-639
 FOR PIPE PROFILES, SEE SHEETS 515, 675
 FOR WATER WORK PLANS, SEE SHEETS 706-751



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PAVEMENT REMOVED
 SEE SHEETS 650-659 FOR PAVEMENT MATERIALS

DR-31
 STA 135+83.14, 33.62' RT
 EX. MH REMOVED,
 RIM ELEV 949.57'
 12" CPP W 944.82
 12" CPP SE 944.80

DR-75
 STA 135+87.70, 44.54' RT
 EX. CB REMOVED,
 GRATE ELEV 948.43'
 12" CPP NW 943.97
 12" RCP E 943.20

D-55
 STA 135+78.61, 32.00' RT
 CB-3A, GRATE ELEV 949.55
 12" (E) 944.55
 6" UD (W) 946.50

RETAINING WALL #2
 SEE SHEETS 968 - 973
 FOR DETAILS

RETAINING WALL #2
 SEE SHEETS 968 - 973
 FOR DETAILS

RETAINING WALL #2
 SEE SHEETS 968 - 973
 FOR DETAILS

NO.	DESCRIPTION	REV. BY	DATE
1	REVISED EMBANKMENT QUANTITY	TMT	12-17-2020

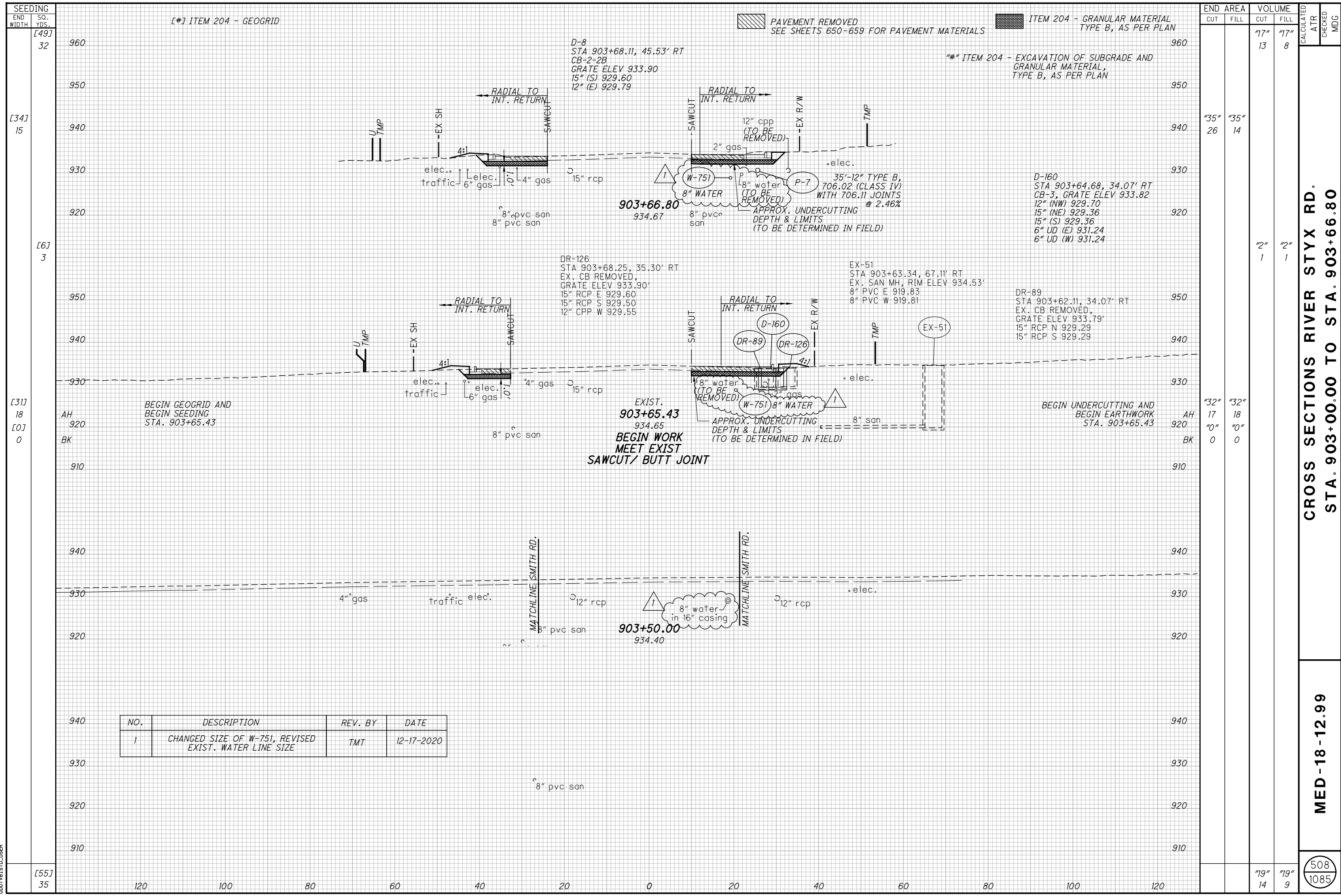
SEEDING END WIDTH	SO. YDS.	END AREA		VOLUME		CALCULATED ATR	CHECKED MDG
		CUT	FILL	CUT	FILL		
181				263	16		
39				154	13		
236				299	35		
46				166	25		
258				279	38		
47				135	16		
253				242	26		
44				126	12		
928		120	100	1080	115		

CROSS SECTIONS - S.R. 18
 STA. 134+50.00 TO STA. 136+00.00

MED - 18 - 12.99

449
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NO.	DESCRIPTION	REV. BY	DATE
1	CHANGED SIZE OF W-751, REVISED EXIST. WATER LINE SIZE	TMT	12-17-2020

PAVEMENT REMOVED SEE SHEETS 650-659 FOR PAVEMENT MATERIALS
 ITEM 204 - GRANULAR MATERIAL TYPE B, AS PER PLAN

"#" ITEM 204 - EXCAVATION OF SUBGRADE AND GRANULAR MATERIAL, TYPE B, AS PER PLAN

D-8
 STA 903+68.11, 45.53' RT
 CB-2-2B
 GRATE ELEV 933.90
 15" (S) 929.60
 12" (E) 929.79

D-160
 STA 903+64.68, 34.07' RT
 CB-3, GRATE ELEV 933.82
 12" (NW) 929.70
 15" (NE) 929.36
 15" (S) 929.36
 6" UD (E) 931.24
 6" UD (W) 931.24

DR-126
 STA 903+68.25, 35.30' RT
 EX. CB REMOVED,
 GRATE ELEV 933.90'
 15" RCP E 929.60
 15" RCP S 929.50
 12" CPP W 929.55

EX-51
 STA 903+63.34, 67.11' RT
 EX. SAN MH, RIM ELEV 934.53'
 8" PVC E 919.83
 8" PVC W 919.81

DR-89
 STA 903+62.11, 34.07' RT
 EX. CB REMOVED,
 GRATE ELEV 933.79'
 15" RCP N 929.29
 15" RCP S 929.29

EXIST.
 903+65.43
 934.65
 BEGIN WORK MEET EXIST SAWCUT/ BUTT JOINT

BEGIN UNDERCUTTING AND BEGIN EARTHWORK STA. 903+65.43

[#] ITEM 204 - GEOGRID

SEEDING END WIDTH	SO. YDS.	ELEVATION	END AREA		VOLUME		CALCULATED ATR	CHECKED MDG
			CUT	FILL	CUT	FILL		
[49]	32	960			"17"	"17"		
		950			13	8		
[34]	15	940	"35"	"35"				
		930	26	14				
[6]	3	920			"2"	"2"		
		910			1	1		
[31]	18	920	"32"	"32"				
[0]	0	920	17	18	"0"	"0"		
		910	0	0				
		940						
		930						
		920						
		940						
		930						
		920						
		940						
		930						
		920						
		910						
[55]	35	910	"19"	"19"				
		900	14	9				

CROSS SECTIONS RIVER STYX RD.
 STA. 903+00.00 TO STA. 903+66.80

MED-18-12.99

508
1085

WESTERN RESERVE OF MEDINA, LIMITED
3985/3995/4015 MEDINA ROAD

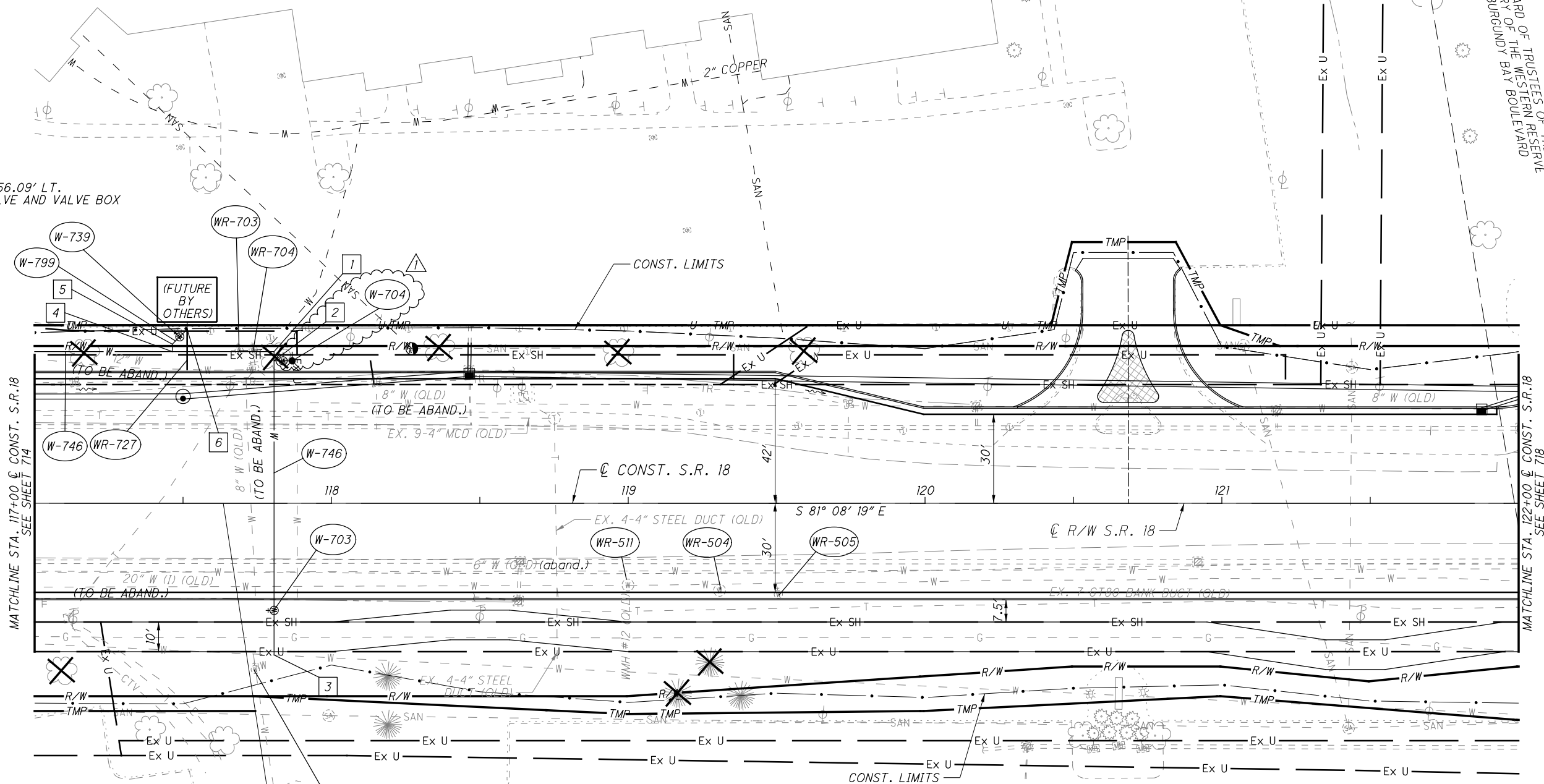
- 1 STA. 117+80.69, 51.09' LT. 12" - 90° BEND
- 2 STA. 117+80.69, 48.00' LT. 12" X 6" TEE
- 3 STA. 117+80.69, 51.14' RT. 12" X 12" TAPPING-IN SLEEVE
- 4 STA. 117+46.41, 51.09' LT. 12" X 6" TEE
- 5 STA. 117+46.41, 53.59' LT. 6" - 45° BEND
- 6 STA. 117+51.41, 58.89' LT. 6" - 45° BEND

CALCULATED
ATR
CHECKED
MDG

0 20 40
10
HORIZONTAL
SCALE IN FEET

W-739
STA. 117+48.91, 56.09' LT.
6 INCH GATE VALVE AND VALVE BOX

THE BOARD OF TRUSTEES OF THE
PRESBYTERY OF THE WESTERN RESERVE
5020 BURGUNDY BOULEVARD



MATCHLINE STA. 117+00 @ CONST. S.R. 18
SEE SHEET 714

MATCHLINE STA. 122+00 @ CONST. S.R. 18
SEE SHEET 718

FOR ESTIMATED QUANTITIES, SEE SHEETS 299-336
FOR PROFILE VIEW, SEE SHEET 717

4018 EVERGREEN PROPERTIES, LLC
4018 MEDINA ROAD

4000 CARRICK PLACE, LLC
4000 CARRICK DRIVE

W-703
STA. 117+80.69, 36.09' RT.
12 INCH GATE VALVE AND VALVE BOX

W-704
STA. 117+86.76, 48.00' LT.
FIRE HYDRANT AND GATE VALVE REMOVED AND RESET

NO.	DESCRIPTION	REV. BY	DATE
1	MOVED W-704	TMT	12-17-2020

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WATER WORK - PLAN - S.R. 18
STA. 117+00 TO STA. 122+00

MED-18-12.99

716
1085

FOR ESTIMATED QUANTITIES, SEE SHEETS 299-336
FOR PROFILE VIEW, SEE SHEET 731



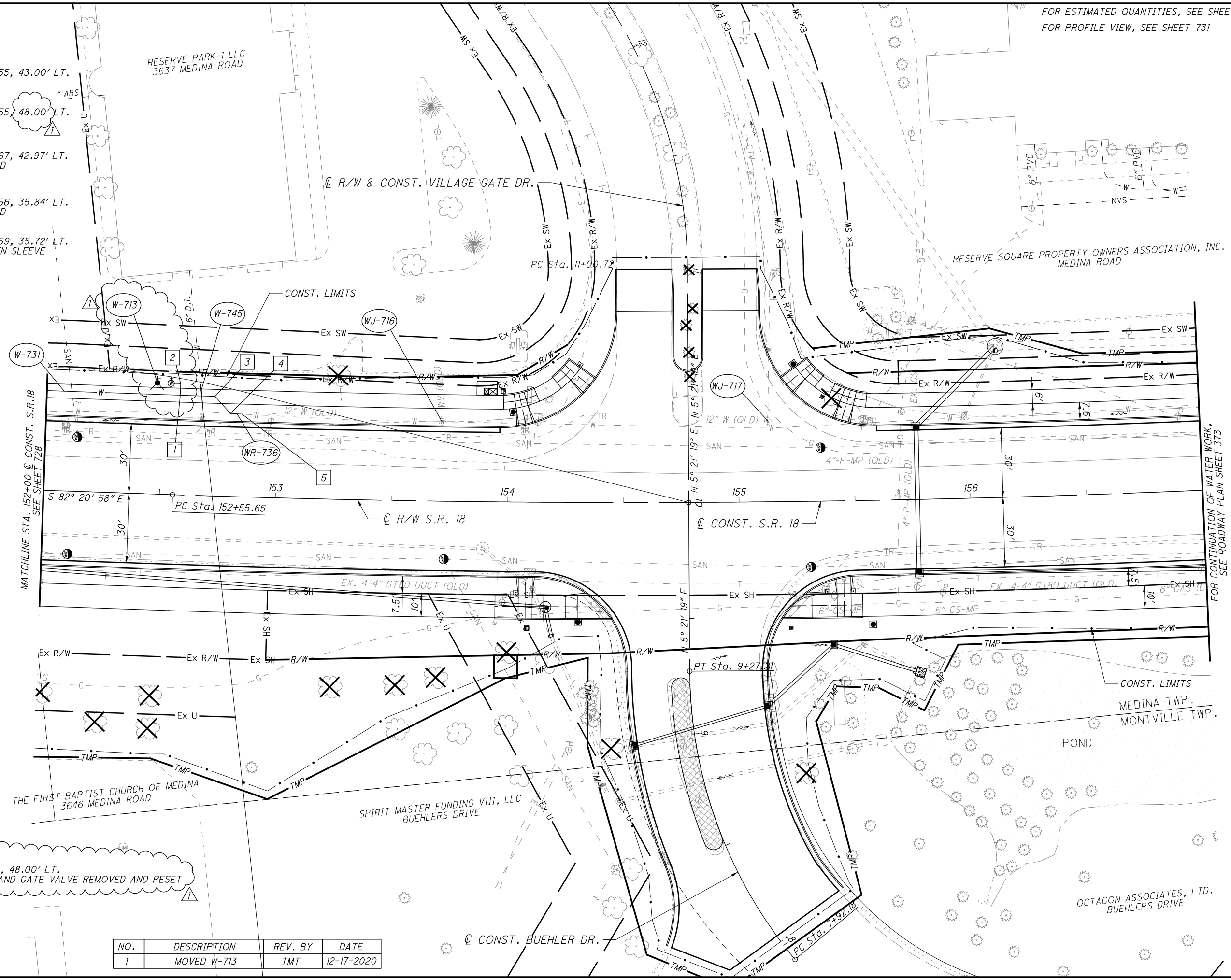
CALCULATED
ATR
CHECKED
MDG

WATER WORK - PLAN - S.R. 18
STA. 152+00 TO STA. 157+00

MED-18-12.99

730
1085

- 1 STA. 152+57.55, 43.00' LT.
12" X 6" TEE
- 2 STA. 152+57.55, 48.00' LT.
6" 90° BEND
- 3 STA. 152+72.67, 42.97' LT.
12" - 45° BEND
- 4 STA. 152+79.56, 35.84' LT.
12" - 45° BEND
- 5 STA. 152+84.59, 35.72' LT.
12" CUTTING-IN SLEEVE



W-713
STA. 152+47.54, 48.00' LT.
FIRE HYDRANT AND GATE VALVE REMOVED AND RESET

NO.	DESCRIPTION	REV. BY	DATE
1	MOVED W-713	TMT	12-17-2020

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FOR CONTINUATION OF WATER WORK, SEE ROADWAY PLAN SHEET 373

NO.	DESCRIPTION	REV. BY	DATE
1	ADDED W-37, MOVED W-8	TMT	12-17-2020

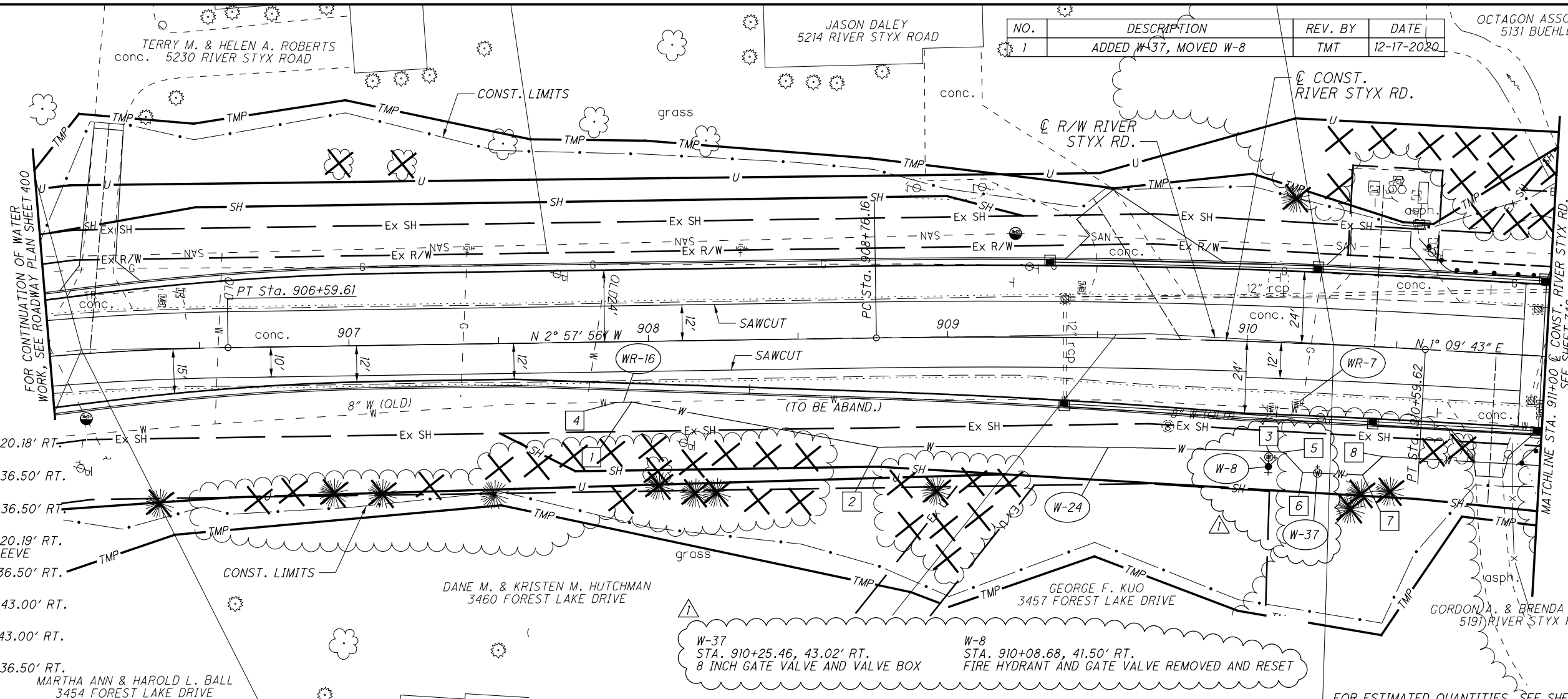


CALCULATED
ATR
CHECKED
MDG

WATER WORK - PLAN & PROFILE
RIVER STYX RD. / SHADY BROOKE LN. STA. 906+00 TO STA. 911+00

MED - 18 - 12.99

745
1085

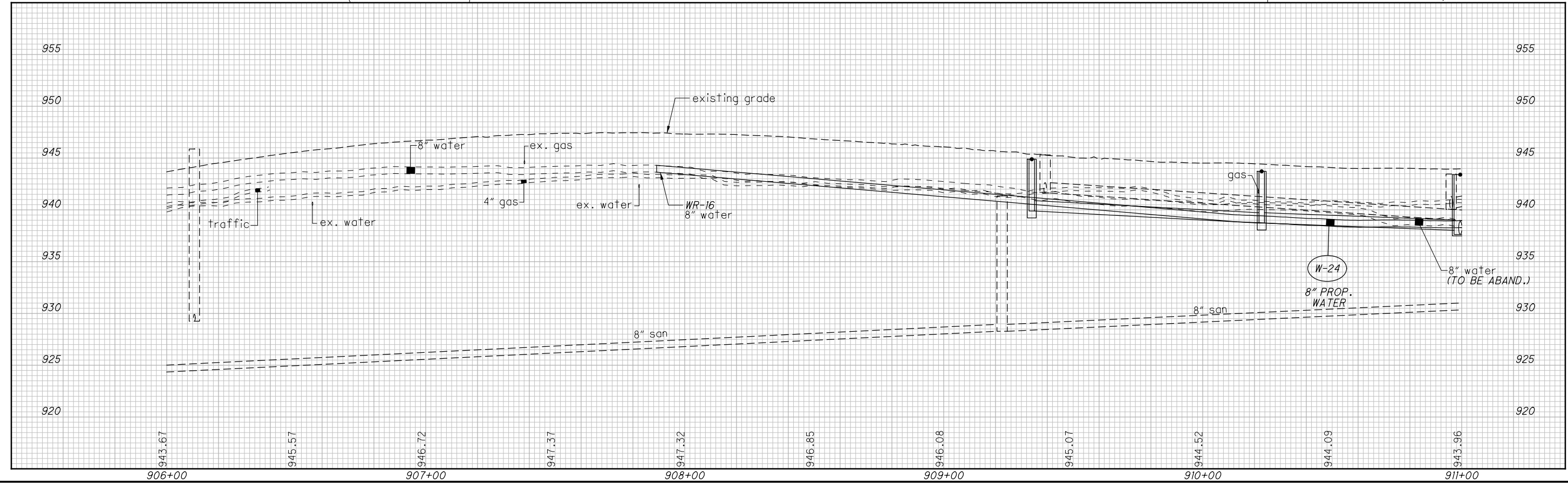


- 1 STA. 907+94.14, 20.18' RT. 8° - 11.25° BEND
- 2 STA. 908+76.16, 36.50' RT. 8° - 11.25° BEND
- 3 STA. 910+08.68, 36.50' RT. 8" x 6" TEE
- 4 STA. 907+89.14, 20.19' RT. 8" CUTTING-IN SLEEVE
- 5 STA. 910+13.75, 36.50' RT. 8° - 45° BEND
- 6 STA. 910+20.37, 43.00' RT. 8° - 45° BEND
- 7 STA. 910+40.71, 43.00' RT. 8° - 45° BEND
- 8 STA. 910+47.22, 36.50' RT. 8° - 45° BEND

W-37
STA. 910+25.46, 43.02' RT.
8 INCH GATE VALVE AND VALVE BOX

W-8
STA. 910+08.68, 41.50' RT.
FIRE HYDRANT AND GATE VALVE REMOVED AND RESET

FOR ESTIMATED QUANTITIES, SEE SHEETS 299-336



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GENERAL

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL AS WELL AS ANY WOODED AREAS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED THAT INCLUDES THOSE LOCATED WITHIN WOODED AREAS TO BE CLEARED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	0	0	0
30"	0	0	0
48"	0	0	0
60"	0	0	0

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON THE RIGHT OF WAY PLANS.

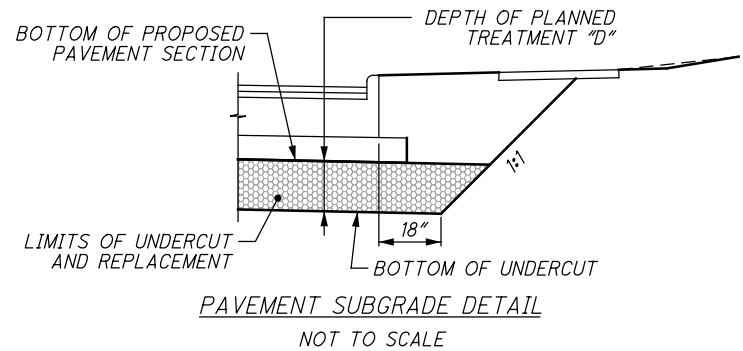
THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 623 - RIGHT-OF-WAY MONUMENT 4 EACH

FOR ALL OTHER 'GENERAL' NOTES, SEE MED-18-12.99 'PART A' PLAN SHEET 35

ROADWAY

SUBGRADE STABILIZATION



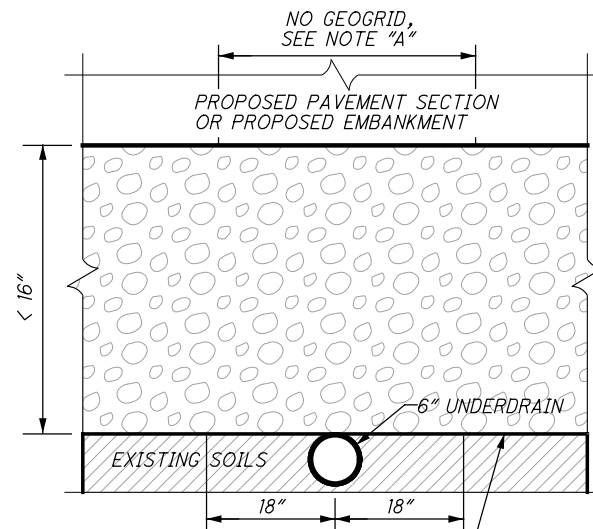
ITEM 204 - GRANULAR MATERIAL, TYPE B, AS PER PLAN

SEE MED-18-12.99 'PART A' PLAN SHEET 38

ITEM SPECIAL - MAILBOX SUPPORT

SEE MED-18-12.99 'PART A' PLAN SHEET 38

FOR ALL OTHER 'ROADWAY' NOTES, SEE MED-18-12.99 'PART A' PLAN SHEETS 37 - 38



GEOGRID (ITEM 204) PLACED AT BOTTOM OF UNDERCUT AND ABOVE GEOTEXTILE FABRIC WHEN SPECIFIED IN THE PAVEMENT SUBGRADE IMPROVEMENT SCHEDULE ON THIS SHEET

NOTE "A":

THE CONTRACTOR SHALL SUSPEND THE USE OF GEOTEXTILE FABRIC AND GEOGRID WITHIN 18" OF EITHER SIDE OF A CONFLICTING UNDERDRAIN.

DETAIL - UNDERCUT/ REPLACEMENT TREATMENT METHOD

NOT TO SCALE

PAVEMENT SUBGRADE IMPROVEMENT SCHEDULE					
ALIGNMENT	BEGIN STATION	END STATION	DEPTH OF TREATMENT 'D'	TREATMENT METHOD	BACKFILL MATERIAL
☐ CONST. RIVER STYX RD.	900+50.00	903+45.28	12" W/ GEOGRID	UNDERCUT	GRANULAR
☐ R/W & CONST. SMITH RD.	16+45.66	17+68.43	12" W/ GEOGRID	UNDERCUT	GRANULAR

EROSION CONTROL

ITEM 832 - EROSION CONTROL

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR TEMPORARY SEDIMENT AND EROSION CONTROL PER SS 832.

ITEM 832 - EROSION CONTROL 2,000 EACH

FOR ALL OTHER 'EROSION CONTROL' NOTES, SEE MED-18-12.99 'PART A' PLAN SHEET 41

ENVIRONMENTAL

FOR 'ENVIRONMENTAL' NOTES, SEE MED-18-12.99 'PART A' PLAN SHEET 41

DRAINAGE

FOR 'DRAINAGE' NOTES, SEE MED-18-12.99 'PART A' PLAN SHEET 40

PAVEMENT

FOR 'PAVEMENT' NOTES, SEE MED-18-12.99 'PART A' PLAN SHEET 39

WATER QUALITY

FOR 'WATER QUALITY' NOTES, SEE MED-18-12.99 'PART A' PLAN SHEET 42

WATER WORK

ITEM SPECIAL - 12" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (FT) (MEDINA COUNTY)

SEE MED-18-12.99 'PART A' PLAN SHEET 42

ITEM SPECIAL - 12" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (MEDINA COUNTY)

SEE MED-18-12.99 'PART A' PLAN SHEET 42

ITEM SPECIAL - 12" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (FT) (MEDINA COUNTY)

SEE MED-18-12.99 'PART A' PLAN SHEET 42

PRE-CONSTRUCTION NOTIFICATION REQUIRED (MEDINA COUNTY WATER)

SEE MED-18-12.99 'PART A' PLAN SHEET 42

FOR ALL OTHER 'WATER WORK' NOTES AND DETAILS, SEE MED-18-12.99 'PART A' PLAN SHEETS 42 - 54 AND 755

SANITARY SEWER

FOR 'SANITARY SEWER' NOTES, SEE MED-18-12.99 'PART A' PLAN SHEET 42

NO.	DESCRIPTION	REV. BY	DATE
1	ADDED NOTES, REVISED WATER LINE MATERIAL AND ADDED REFERENCE TO WATER DETAIL	TMT	12-17-2020

CALCULATED
ATR
CHECKED
TMT

GENERAL NOTES

MED-18-12.99
(PART B)

NOTIFICATION OF TRAFFIC RESTRICTIONS

SEE MED-18-12.99 (PART 1) PLANS

SEQUENCE OF CONSTRUCTION

PRE PHASE 1 - RIVER STYX ROAD (BEGIN PROJECT TO SMITH RD)

TEMPORARY PAVEMENT REQUIRED FOR PHASE 1 SHALL BE CONSTRUCTED ON THE EAST SIDE OF RIVER STYX ROAD DURING OFF-PEAK HOURS WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. EXISTING TRAFFIC PATTERNS SHALL BE RESTORED AT THE END OF THE WORK DAY.

PHASE 1 - RIVER STYX ROAD (BEGIN PROJECT TO SMITH RD)

TRAFFIC SHALL BE SHIFTED TO THE EAST SIDE OF RIVER STYX ROAD WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE WEST SIDE OF RIVER STYX ROAD, INCLUDING THE ASPHALT PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE COURSE.

PHASE 2 - RIVER STYX ROAD (BEGIN PROJECT TO SMITH RD)

TRAFFIC SHALL BE SHIFTED TO THE WEST SIDE OF RIVER STYX ROAD WHILE MAINTAINING ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL CONSTRUCT THE EAST SIDE OF RIVER STYX ROAD, INCLUDING THE ASPHALT PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE COURSE.

PHASE 3 - RIVER STYX ROAD (BEGIN PROJECT TO SMITH RD)

THE CONTRACTOR SHALL MILL THE EXISTING PAVEMENT, PLACE THE INTERMEDIATE COURSE, ASPHALT SURFACE COURSE AND THE FINAL PAVEMENT MARKINGS THROUGHOUT THE ENTIRE PROJECT. DURING MILLING OF THE EXISTING PAVEMENT AND PLACEMENT OF THE ASPHALT COURSES, TRAFFIC SHALL BE MAINTAINED UNDER FLAGGER CONTROL IN ACCORDANCE WITH MT-97.11. DURING FINAL PAVEMENT MARKING OPERATIONS, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MT-99.20.

WORK HOUR DESCRIPTIONS

OFF-PEAK HOURS ARE DEFINED AS ANY PERIOD OTHER THAN 6:00-8:00 AM AND 3:00-6:00 PM (MONDAY THRU FRIDAY) AND LEGAL HOLIDAYS. NIGHTTIME HOURS ARE DEFINED AS 8:00 PM - 6:00 AM.

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

SEE MED-18-12.99 (PART 1) PLANS FOR NOTE.

SIGNAL MODIFICATIONS

SEE MED-18-12.99 (PART 1) PLANS FOR NOTE.

PLACEMENT OF ASPHALT CONCRETE

SEE MED-18-12.99 (PART 1) PLANS FOR NOTE.

TRENCH FOR WIDENING

SEE MED-18-12.99 (PART 1) PLANS FOR NOTE.

OVERNIGHT TRENCH CLOSING

SEE MED-18-12.99 (PART 1) PLANS FOR NOTE.

ACCESS TO PROPERTIES

SEE MED-18-12.99 (PART 1) PLANS FOR NOTE.

ITEM 614 - MAINTAINING TRAFFIC

SEE MED-18-12.99 (PART 1) PLANS FOR NOTE.

DUST CONTROL

SEE MED-18-12.99 (PART A) PLANS FOR NOTE. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 5 MGAL

ITEM 614. LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

SEE MED-18-12.99 (PART 1) PLANS FOR NOTE. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 40 HOURS

EARTHWORK FOR MAINTAINING TRAFFIC

SEE MED-18-12.99 (PART 1) PLANS FOR NOTE. THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY:

EXCAVATION FOR MAINTAINING TRAFFIC 0.4 CY
EMBANKMENT FOR MAINTAINING TRAFFIC 4.6 CY

THE ABOVE ESTIMATED QUANTITIES ARE UNDERSTOOD TO BE OUTSIDE THE PERMANENT EXCAVATION OR EMBANKMENT LIMITS INCLUDED IN THE ROADWAY PLANS. PAYMENT FOR ALL LABOR AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 615, ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

ITEM 615 - ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 615, THIS ITEM SHALL INCLUDE RESTORATION OF ALL SURFACES AND SIGNS DISTURBED BY THE PLACEMENT AND REMOVAL OF PAVEMENT FOR MAINTAINING TRAFFIC OUTSIDE OF THE PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO, THE REPLACEMENT OF PAVEMENT ON RIVER STYX ROAD.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 615, ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN LS

RESTRICTIONS



THE CONTRACTOR SHALL NOT WORK ON RIVER STYX ROAD BEFORE MARCH 1ST, 2023.

THE CONTRACTOR SHALL CONSTRUCT RIVER STYX ROAD PROVIDED IN PART 2 CONCURRENTLY WITH RIVER STYX ROAD IMPROVEMENTS PROVIDED IN PART 1.

CALCULATED
KRM
CHECKED
AKF

MAINTENANCE OF TRAFFIC NOTES

MED-18-12.99
(PART B)

NO.	DESCRIPTION	REV. BY	DATE
1	ADDED RESTRICTION NOTE	AKF	12/17/20

OFFICE CALCS	SHEET NUMBER						PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED JMB	CHECKED MDG
	8	9	18	26			10/ENH/PV	11/ENH/PV								
												PAVEMENT				
60							36	24	302	46000	60	CY	ASPHALT CONCRETE BASE, PG64-22			
110				6			70	46	304	20000	116	CY	AGGREGATE BASE			
44							26	18	407	20000	44	GAL	NON-TRACKING TACK COAT			
				1			1		441	50400	1		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)			
16							10	6	442	10000	16	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)			
19							11	8	442	10100	19	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)			
				29			17	12	452	10050	29	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS			
167							100	67	452	13010	167	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP			
122							73	49	609	14000	122	FT	CURB, TYPE 2-A			
198							79	119	609	26000	198	FT	CURB, TYPE 6			
												WATER WORK				
			1				1		638	10800	1	EACH	VALVE BOX ADJUSTED TO GRADE			
			30				18	12	SPECIAL	63820424	30	FT	12" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE ITON MECHANICAL JOINTS AND FITTINGS (MEDINA COUNTY)	7		
			2				1	1	SPECIAL	63820598	2	EACH	12" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (MEDINA COUNTY)	7		
												SANITARY SEWER				
			1				1		611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE			
												TRAFFIC CONTROL				
												FOR TRAFFIC CONTROL GENERAL SUMMARY			29	
												MAINTENANCE OF TRAFFIC				
40							24	16	614	11110	40	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE			
		0.16					0.10	0.06	614	21000	0.16	MILE	WORK ZONE CENTER LINE, CLASS I			
		0.24					0.14	0.10	614	22000	0.24	MILE	WORK ZONE EDGE LINE, CLASS I, 4"			
		105					63	42	614	24000	105	FT	WORK ZONE DOTTED LINE, CLASS I			
		52					31	21	614	26000	52	FT	WORK ZONE STOP LINE, CLASS I			
		6					4	2	614	30000	6	EACH	WORK ZONE ARROW, CLASS I			
LS							LS	LS	615	10001	LS		ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN		8	
		130					78	52	615	25000	130	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B			
5							3	2	616	10000	5	MGAL	WATER			
												INCIDENTALS				
							LS	LS	614	11000	LS		MAINTAINING TRAFFIC			
							LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING			
							LS	LS	624	10000	LS		MOBILIZATION			

NO.	DESCRIPTION	REV. BY	DATE
1	REVISED WATER MAIN MATERIAL	TMT	12-17-2020

GENERAL SUMMARY
MED-18-12-99 (PART B)

0:\2013\2013013\MED\92953\ROADWAY\SHEETS\92953\92953.dgn
 12/18/2020
 11:56:10 AM
 G00TV815TD_USER

REF. NO.	SHEET NO.	STATION		SIDE	LENGTH (L) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) SF	202	202	202	202	605	611	611	SPECIAL	SPECIAL	SPECIAL	FOR INFO ONLY		
		PAVEMENT REMOVED (CONCRETE OR COMPOSITE) SY	PAVEMENT REMOVED (ASPHALT) SY					CURB REMOVED SY	PIPE REMOVED, 24" AND UNDER FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31 FT	MANHOLE ADJUSTED TO GRADE (SANITARY) EACH	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	VALVE BOX ADJUSTED TO GRADE EACH	12" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (MEDINA COUNTY) FT	12" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (MEDINA COUNTY) EACH	12" - 45° BEND EACH				
FROM	TO	FT	FT	SF	SY	SY	SY	FT	FT	EACH	FT	EACH	FT	EACH	EACH	EACH	EACH			
R-900	28	900+50.00 (RIV STYX)	903+96.88 (RIV STYX)	LT	CADD	809.48														
R-901	28	900+50.00 (RIV STYX)	903+96.88 (RIV STYX)	RT	CADD	286.65		89.94												
R-902	28	903+96.88 (RIV STYX)	16+45.66 (SMITH)	LT	CADD	510.57	56.73		69											
R-903	28	903+96.88 (RIV STYX)	17+68.42 (SMITH)	LT	CADD	489.79	54.42		66											
SJ-63	19	903+14.14 (RIVER STYX RD.)		LT								1								
U-300	19	900+50.00 (RIV STYX)	D-218	LT								225		10						
U-301	19	16+64.33 (SMITH)	D-218	RT								37		10						
U-302	19	17+68.43 (SMITH)	D-219	RT								55		10						
U-303	19	900+50.00 (RIV STYX)	D-219	RT								225		10						
U-304	19	16+60.56 (SMITH)	EX. UD	RT								17								
W-900	19	902+70.00 (RIV STYX)	903+00.00 (RIV STYX)	RT												30	2	4		
WJ-900	19	902+45.62 (RIVER STYX)		RT										1						
WR-900	19	902+70.00 (RIV STYX)	903+00.00 (RIV STYX)	RT					30.00											
TOTALS CARRIED TO GENERAL SUMMARY								111	122	135	30		559	1	40		1	30	2	4

NO.	DESCRIPTION	REV. BY	DATE
1	REVISED WATER MAIN MATERIAL	TMT	12-17-2020

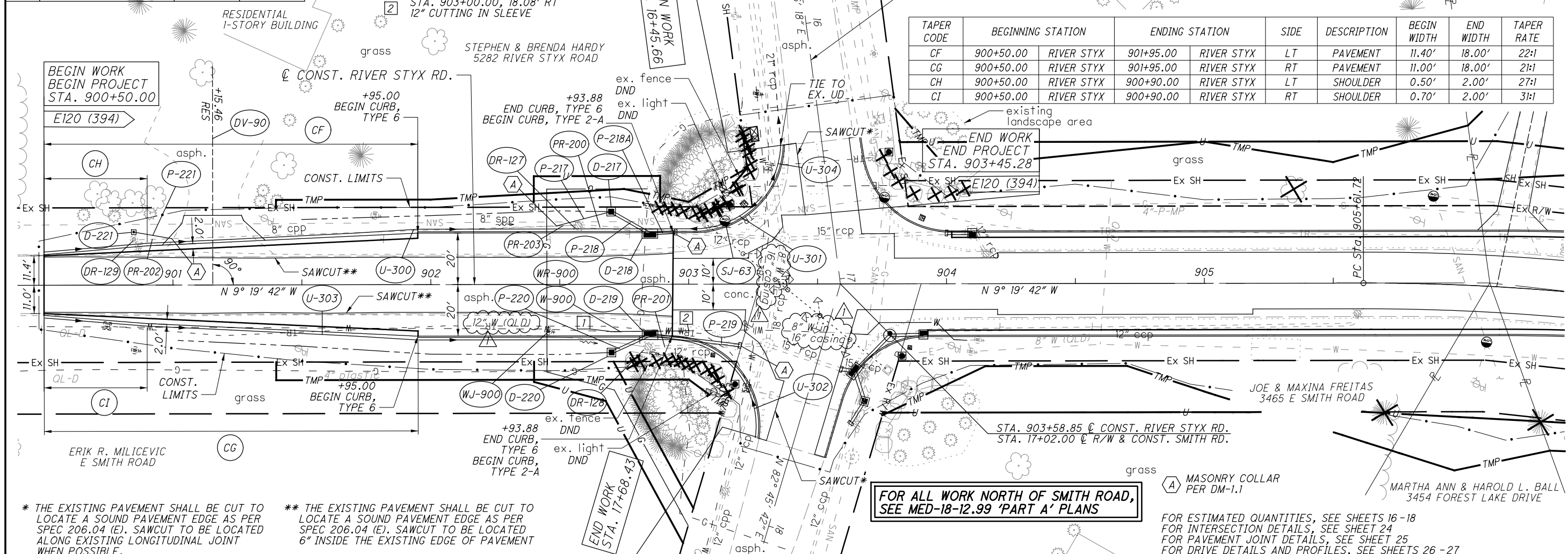
ESTIMATED QUANTITIES

MED-18-12.99 (PART B)

CALCULATED
KRM
CHECKED
TMT

NO.	DESCRIPTION	REV. BY	DATE
1	REVISED EXIST. WATER LINE LABELS	TMT	12-17-2020

- 1 STA. 902+70.00, 18.36' RT 12" CUTTING IN SLEEVE
- 2 STA. 903+00.00, 18.08' RT 12" CUTTING IN SLEEVE

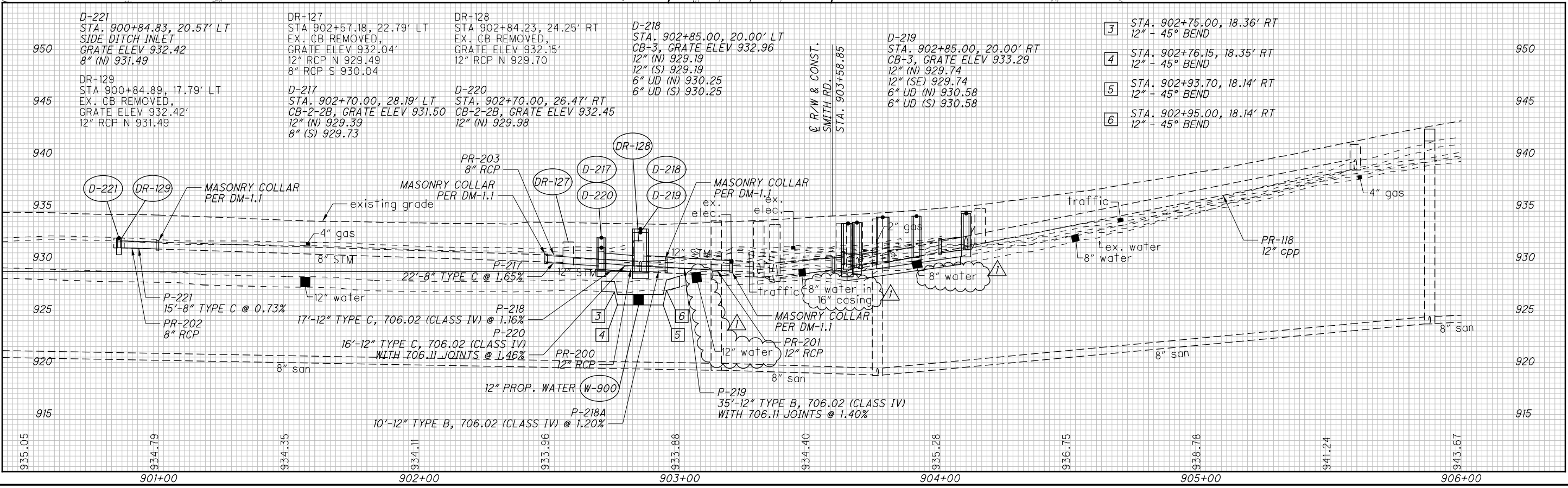


* THE EXISTING PAVEMENT SHALL BE CUT TO LOCATE A SOUND PAVEMENT EDGE AS PER SPEC 206.04 (E). SAWCUT TO BE LOCATED ALONG EXISTING LONGITUDINAL JOINT WHEN POSSIBLE.

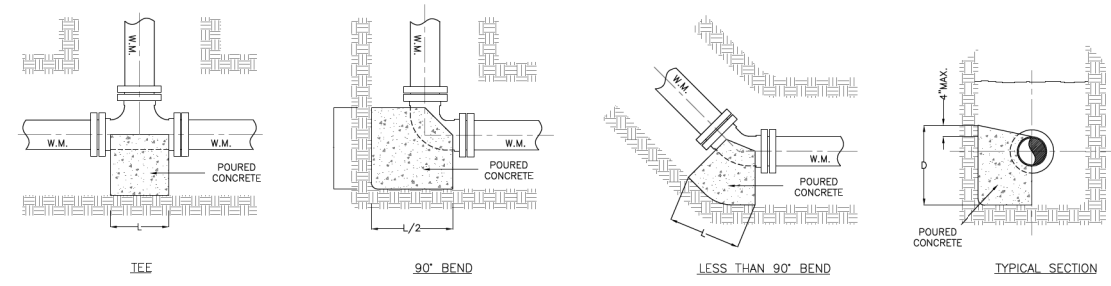
** THE EXISTING PAVEMENT SHALL BE CUT TO LOCATE A SOUND PAVEMENT EDGE AS PER SPEC 206.04 (E). SAWCUT TO BE LOCATED 6" INSIDE THE EXISTING EDGE OF PAVEMENT

FOR ALL WORK NORTH OF SMITH ROAD, SEE MED-18-12.99 'PART A' PLANS

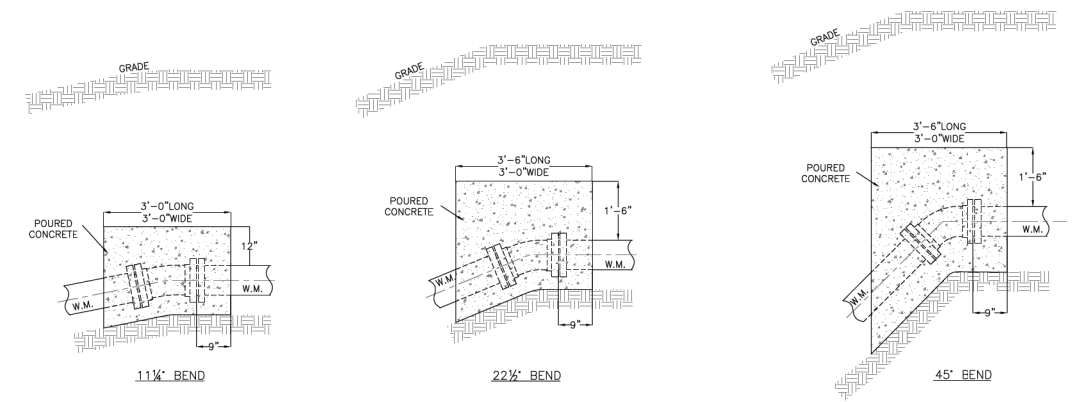
FOR ESTIMATED QUANTITIES, SEE SHEETS 16-18
 FOR INTERSECTION DETAILS, SEE SHEET 24
 FOR PAVEMENT JOINT DETAILS, SEE SHEET 25
 FOR DRIVE DETAILS AND PROFILES, SEE SHEETS 26-27



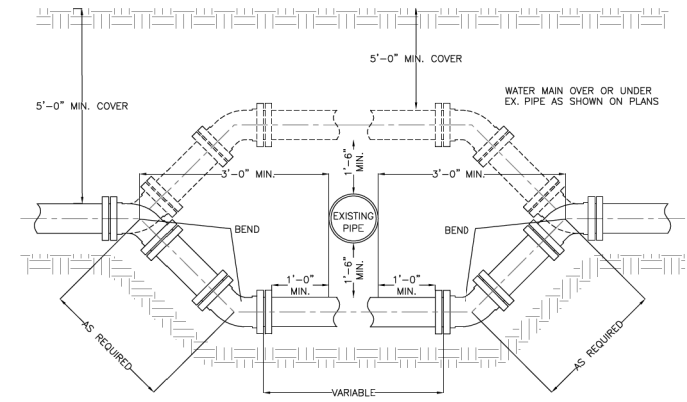
MED-18-12.99 (PART B)
 PLAN & PROFILE - RIVER STYX RD. / SHADY BROOKE LN.
 BEGIN TO STA. 906+00
 CALCULATED ATR CHECKED MDG
 HORIZONTAL SCALE IN FEET
 19/39



CONCRETE BLOCKING FOR HORIZONTAL BENDS



CONCRETE BLOCKING FOR VERTICAL BENDS



STANDARD OFFSET DETAIL

TEES

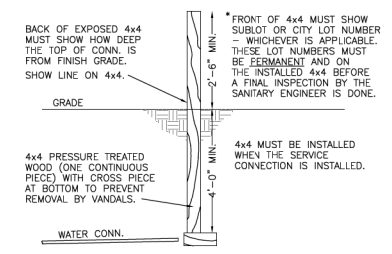
RUN	BRANCH					
	3", 4", 6"	8"	12"	16"		
	L	D	L	D	L	D
3", 4", 6"	16"	7"				
8"	14"	8"	18"	12"		
12"	9"	12"	18"	12"	24"	18"
16"	8"	16"	14"	16"	28"	16"
> 16"	TO BE DETERMINED IN FIELD BASED ON GROUND CONDITIONS					

BENDS

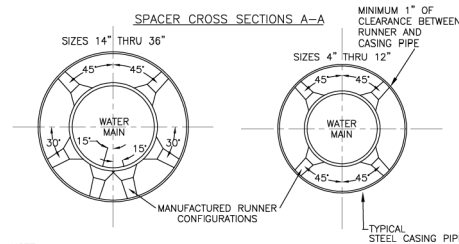
SIZE OF PIPE	DEGREE OF BEND					
	1 1/4°	2 1/2°	45°	90°		
	L	D	L	D	L	D
3", 4", 6"	8"	6"	10"	6"	20"	6"
8"	9"	8"	14"	8"	24"	8"
12"	14"	12"	22"	12"	30"	15"
16"	18"	16"	24"	18"	33"	22"
> 16"	TO BE DETERMINED IN FIELD BASED ON GROUND CONDITIONS					

CASING TABLE

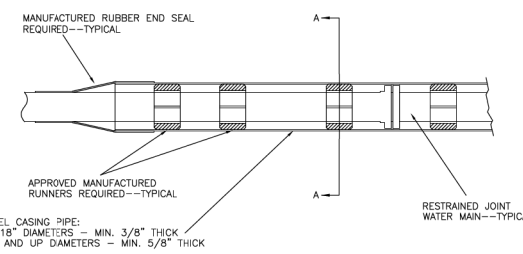
NOMINAL PIPE SIZE	MIN CASING SIZE INSIDE DIAMETER
4"	12"
6"	12"
8"	16"
10"	18"
12"	20"
15"	22"
18"	26"
21"	30"
24"	33"
27"	36"
36"	48"



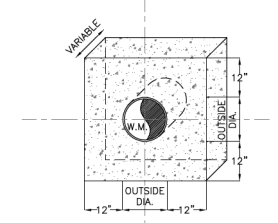
TYPICAL WATER CONNECTION MARKER DETAIL
(TO BE PLACED AT THE END OF EVERY WATER LATERAL)



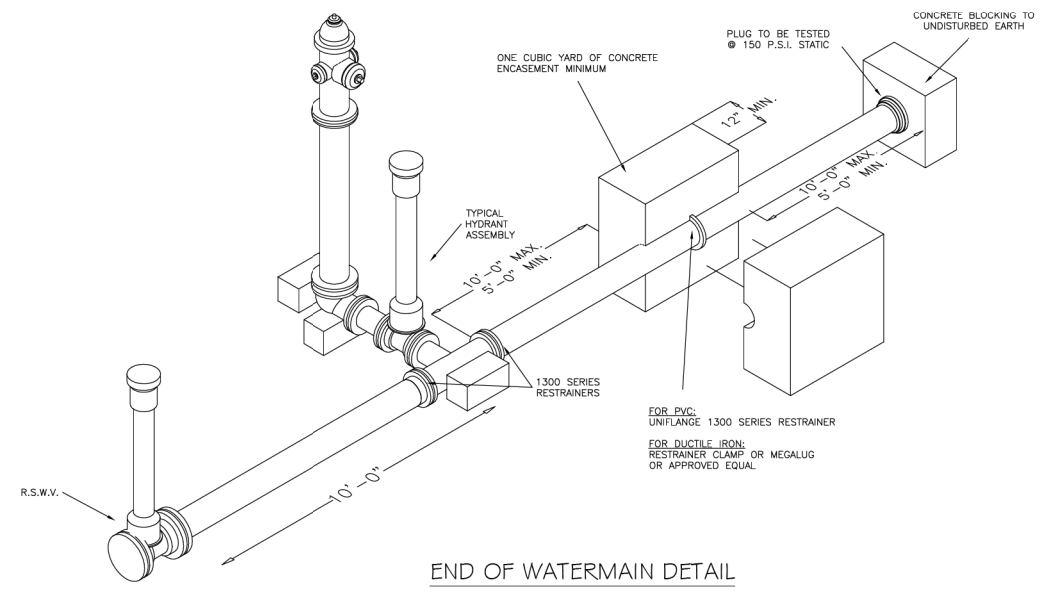
NOTE:
1) CASING SPACERS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2) WATER MAIN TO BE CENTERED INSIDE CASING PIPE.



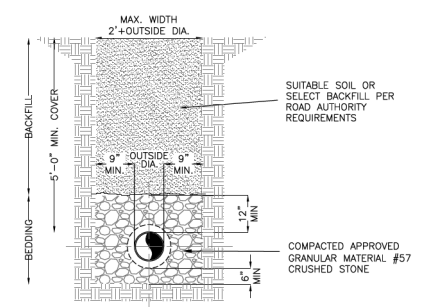
CASING DETAIL



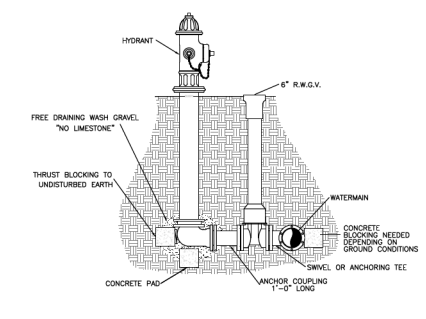
CONCRETE ENCASUREMENT DETAIL



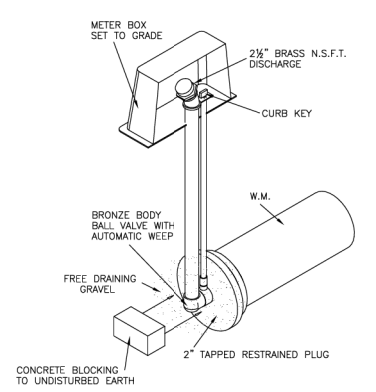
END OF WATERMAIN DETAIL



TYPICAL TRENCH SECTION



TYPICAL HYDRANT SECTION



TYPICAL FLUSHING ASSEMBLY

NO.	DESCRIPTION	REV. BY	DATE
1	UPDATED MEDINA COUNTY STANDARDS	TMT	12-17-2020


 COUNTY: MEDINA
 DATE: 5/15/2019
 REVIEWED BY: HORIZONTAL N/A / VERTICAL N/A
 SCALES: HORIZONTAL N/A / VERTICAL N/A
 DRAWN BY: _____
 DESCRIPTION: _____
 DATE: _____
 BY: _____
- WATER MAIN STANDARDS -
PROJECT TITLE
ROAD NAME
 J:\AUTOCAD\MCSSE GENERAL NOTES AND DETAIL SHEETS\WATER MAIN STANDARDS 2019.DWG
 PLAN PREPARED BY:
MEDINA COUNTY
SANITARY ENGINEER
 AMY S. LYON-GALVIN, P.E.
 791 WEST SMITH RD.
 MEDINA, OHIO 44256
 (330) 723-9555
 PROJECT NUMBER
 SHEET NUMBER
 1/1

01_2013_2013013 MED\92959\UTILITIES\SHEETS\92953UD004.dgn
 12/16/2020
 2:54:22 PM
 000TY81STD_USER