

ALLEN COUNTY, OHIO CONSTRUCTION DRAWINGS FOR INDIANBROOK-WILDBROOK ESTATES COUNTY PETITION DITCH #1322 PHASE II 2025

CONVENTIONAL SYMBOLS

	EXISTING	PROPOSED/NEW
FENCE LINE (EX)		
CENTER LINE		
RIGHT OF WAY (EX)		
CHANNEL EASE. (PR)		
UTILITY EASE. (EX)		
GAS LINE (EX)		
WATER LINE (EX)		
STORM LINE (EX)		
SANITARY LINE (EX)		
DITCH / CREEK (EX)		
DITCH / CREEK (PR)		
CONTOURS (EX)		
CONTOURS (PR)		
PROPERTY LINE SYMBOL		
BREAK LINE SYMBOL		

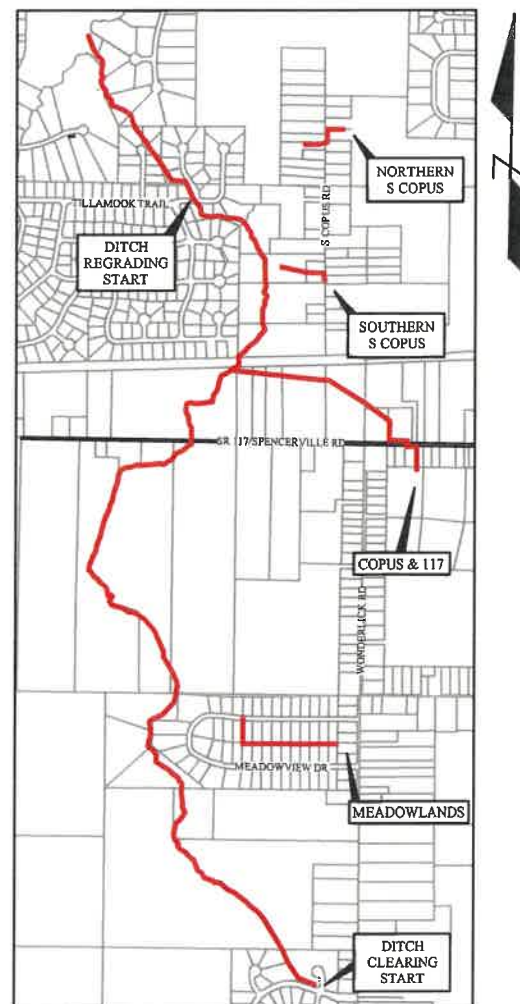
TREE (PR)		TREE (EX)		SHRUB (EX)	
TREE (REMOVE)		SHRUB (REMOVE)			
EVERGREEN (EX)		STUMP			
EVERGREEN (REMOVE)		STUMP (REMOVE)			
WETLAND (PR)		GRASS (PR)		AERIAL TARGET	
POST (PR)		MAILBOX (EX)		MAILBOX (PR)	
LIGHT (EX)		TELEPHONE MARKER (EX)			
FIRE HYDRANT (EX)		WATER METER (EX)			
WATER VALVE (EX)		UTILITY VALVE UNKNOWN (EX)			
TELEPHONE POLE (EX)		POWER POLE (EX)			
LIGHT POLE (EX)		SAN. MANHOLE (EX)			
CATCH BASIN (EX)		CATCH BASIN (PR)			

NOTE TO THE CONTRACTOR

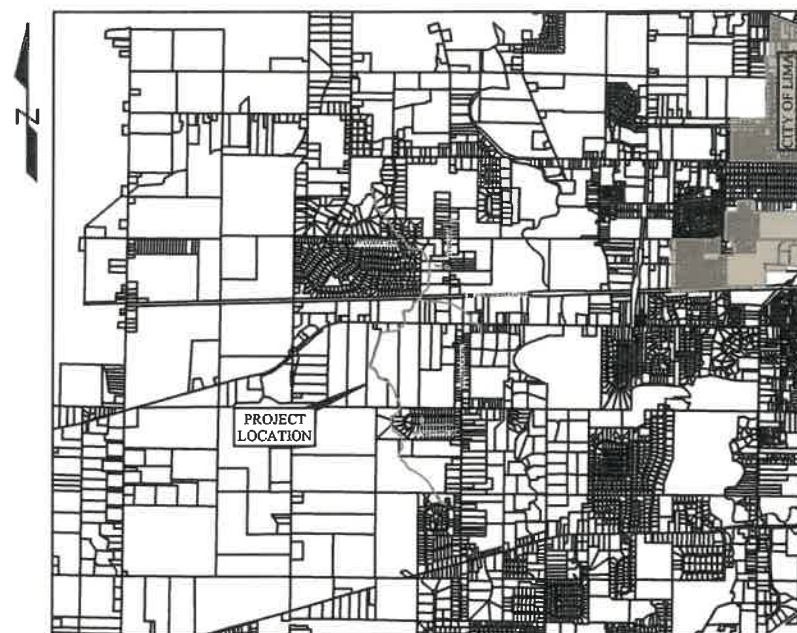
ANY AND ALL CONTRACTORS BIDDING THIS PROJECT ARE PRESUMED TO HAVE LOOKED AT THE ENTIRE PROJECT SITE AND BID DOCUMENTS IN FULL DETAIL BEFORE SUBMITTING THEIR BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AS OUTLINED WITHIN THE CONTRACT.

STANDARD CONSTRUCTION DRAWINGS
(AS NOTED)

ODOT: CB-2-3, 2-4 HW - 2.1 MH - 3



INDEX MAP
Scale: 1" = 1000'



LOCATION MAP
Scale: 1" = 3000'

SHEET INDEX

TITLE SHEET	1
GENERAL NOTES	2-3
QUANTITIES	4
PLAN & PROFILE	5-24
CONSTRUCTION STANDARDS	25
LJ & WD CLASSIFICATION	26

NOTE IN REGARD TO MAINTENANCE EASEMENT:

In accordance with Section 6131.14 of the Ohio Revised Code, the County Engineer has established a twenty five (25) foot easement measured at right angles to the top of banks, on both sides of the ditch, on all Open Ditches on maintenance. Such easement shall be considered part of the permanent improvement.

For this project, a ten (10) foot seeded strip measured at right angles to the top of banks, on both sides of the ditch, will not be established as there is already suitable vegetative cover on the banks of this project.

In regard to waterways, the permanent easement shall be the full width of the waterway as constructed according to the plans.

The permanent easement shall also apply to a storm sewers as well. The permanent easement for storm sewers shall be twenty (20) feet wide centered over the installed tile. The primary function of this easement is to establish a maintenance access for the purpose of routine maintenance activities. Landowners are not permitted to take action that interferes with the continued existence and usefulness of the maintenance easement and the County may secure the removal of any objects that cause such interference. No permanent fixed objects shall be placed within this easement other than crops or an approved vegetative cover.

THIS PLAN HAS BEEN REVIEWED AND APPROVED BY:

ALLEN COUNTY ENGINEER

05-13-25
DATE

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764
(Non-members must be called directly)

OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE
1-800-925-0988

1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
TOWNSHIP SECTION 32, ALLEN COUNTY

TITLE PAGE



ALLEN COUNTY ENGINEER
1501 N SUGAR ST,
LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

PROJECT ID

1322

SHEET	TOTAL
1	26

Work Description - Reconstruct portions of the existing drainage ditch in its meandering path, remove accumulated logs, sediment, and debris. The ditch shall also provide an outlet for all subsurface tiles and waterways outletting into this ditch.

OVERALL LENGTH

Petition Ditch 1322	2.52 Miles
Ditch Relocations	0.06 Miles
Meadowlands	0.24 Miles
Copus/SR117	0.50 Miles
Copus South	0.11 Miles
Copus North	0.12 Miles

General Notes:

General Requirements - The Ohio Department of Transportation (ODOT) Construction and Material Specification dated January 1, 2023, shall govern this project except when otherwise noted. Items listed shall conform to the State of Ohio Department of Transportation Construction and Material Specifications Manual, to the ODOT Office of Traffic Engineering Standard Construction Drawings, to the County construction specifications and standard drawings, and to any supplemental specifications and/or specific requirements noted.

Benchmarks - The Contractor shall carefully preserve benchmarks, reference points, and stakes. Any benchmark, reference point, or survey marker damaged or disturbed by the Contractor shall be reset by an Ohio Registered Surveyor at the Contractor's expense. The Contractor shall contact the Allen County Engineer's Office two (2) working days before disturbing any Allen County Geodetic Monuments (vertical and/or horizontal for reference and replacement). Should the Contractor fail to properly replace these points, the Allen County Engineering Department shall replace these points at the Contractor's expense after three (3) weeks notice. The Contractor is to notify the County Engineer of any conflicts.

Safety Requirements: - The Contractor and all Subcontractors shall be solely responsible for complying with all federal, state, and any local safety requirements, together with exercising precautions at all times for the protections of persons (including employees) and property. It is also solely the responsibility of the Contractor and Subcontractor to initiate, maintain, and supervise all safety requirements, precautions, and programs in connection with the work, including all OSHA rules and regulations.

Work Schedule - The Contractor shall submit a tentative work schedule to the County Engineer prior to the pre-construction meeting. This schedule will detail the timing of the work activities for the various aspects of the project improvements. The schedule shall provide sufficient detail to outline phases of work and any road closures, service connections, and restoration activities. The schedule shall be revised and redistributed throughout the duration of the project. The Contractor shall be responsible for communicating with the Inspector as to their weekly schedule. Every reasonable effort must be made by the Contractor to notify property owners at least 24 hours in advance of any closing of access to their property.

Utilities - Location of existing underground utilities is based on best available field and office information, but the accuracy is not guaranteed. Depths of lines are approximate. The Contractor shall contact the Ohio Utilities Protection Service (OUPS) at 800-362-2764 at least two working days prior to planned work. The Contractor must work with the individual companies to reduce or eliminate conflict problems and to avoid unnecessary damage to the utility facilities or the project work.

Utility Ownership - The location of the underground utilities on the plans have been obtained by diligent field checks and searches of available records. They are believed to be correct, but Allen County does not guarantee their accuracy or completeness. The following is a list of the owners of utilities known to be within the limits of construction. The Contractor shall work with the utilities, Allen County Engineers Office and the Project Inspector to work accordingly with and around the existing utilities.

Allen Water District 3230 N. Cole Street Lima, OH 45801 419-996-4679	County Sanitary Engineer 3230 N. Cole St Lima, OH 45801 419-996-4670
Embridge Gas Ohio 120 S. Jackson St. Lima, Ohio 45801 1-800-877-4715 1-877-542-2630	American Township 102 Pioneer Rd Elida, Ohio 45807 419-331-8651
City of Lima Water Kent Shoemaker 1119 E. North St. Lima, OH 45804 (419) 221-5175	Shawnee Township 2530 Ft. Amanda Rd Lima, OH 45804 419-991-8706
	BP Pipeline Logan Barker Pipelink Maintenance, Inc. Office Manager 317-412-6988

Notice from Dominion - It is the Contractor's responsibility to maintain the lateral and subjacent support of Dominion's pipeline(s), in compliance to 29 CFR, part 1926, subpart P, (safe excavation & shoring). one-foot minimum vertical and horizontal clearance must be maintained between Dominion East Ohio's (DEO) existing pipeline(s) and all other improvements. Extreme care should be taken not to harm any DEO facility (pipelines, etc.) or appurtenance (pipe coating, tracer wire, cathodic protection test station wires & devices, valve boxes, etc.). DEO facilities must be protected with a tarp during bridge construction. The Contractor will be responsible and liable for ensuring that all DEO existing facilities, above and below ground, remain undamaged, accessible and in working order. The crossing of DEO's pipeline with another steel facility may create a potential corrosion issue for the proposed facility and the existing DEO facility. Please contact Dominion's corrosion department: Dave Cutlip (330-266-2121), Rick McDonald (330-266-2122), or Al Humrichouser (330-478-3757).

DEO = The East Ohio Gas Company, DBA Dominion East Ohio, 1-800-362-7557

Construction Layout - Allen County will provide all of the construction layout staking. The Contractor shall notify the County Engineering division at 419-228-3196 at least 48 hours in advance for any need for staking.

Unrecorded Abandoned Existing Pipes and Utilities - When unrecorded abandoned existing pipes and utilities are encountered by the Contractor's work, the Engineer shall be notified before proceeding with construction of any portion of the proposed work which would be affected by the interference with the existing facility. Upon direction from the Engineer, the Contractor shall remove and plug the unrecorded abandoned existing pipe or utility or work around it. Payment for the above work shall be included in the unit price bid for Item 611 - Conduit, As Per Plan.

Storm Sewer Acceptance - Prior to the final acceptance of the project by the County Engineer, all storm sewers installed or repaired shall be thoroughly cleaned and flushed with water. All new catch basins and manholes constructed as part of this project shall be free of all foreign matter and in a clean condition before the project will be accepted by the County Engineer.

Completion Date - Substantial completion of the project shall be on or before **September 31, 2025**.

Maintaining Local Traffic - The work shall be scheduled so that local traffic can enter and exit the work area with little inconvenience.

- At least one lane of traffic shall be maintained along the travel route to the construction site.
- Access shall be maintained for emergency vehicles at all times.
- No trench shall be left open at the end of the day.
- Any construction equipment or excavation near roads shall be marked with lights or reflectors.
- The Contractor shall provide, erect, and maintain all necessary barricades, warning signs, danger signals, flaggers, watchers, and all other appropriate precautions necessary to the protection of the work and for safety.
- Prior to closing off clear access to any public alley, street, road, avenue, or boulevard, the Contractor shall have consent from the officials and the Engineer.

Waste Disposal - The Contractor and each Subcontractor shall be responsible for collecting and removing all waste materials, debris, etc. resulting from work at the site and disposing of same in compliance with all local, state and federal requirements.

Off-Site Vehicle Tracking - The Contractor shall provide a stabilized construction road at entrance and remove all mud, dirt, etc. tracked on public roadway as it occurs by the end of the day.

Sanitary Facilities - The Contractor shall provide sanitary accommodations in accordance with the requirements of the local and state boards of health.

Temporary Soil Stockpiles - Locate soil stockpiles away from concentrated storm water flows. Soil stock piles must be surrounded with silt fence. Inactive stockpiles should be covered with anchored tarps or protected with soil stabilization measures.

Graffiti and Vandalism - The Contractor shall be responsible for removal and replacement of any concrete or other pay item under this contract which is deemed unacceptable by the Engineer due to graffiti or vandalism.

Site Visit - The Contractor shall perform field reconnaissance to become acquainted with the existing site conditions and the potential effects upon the scope of work.

Rights Of Way - In addition to the direct requirements of the contract specifications, the Contractor shall observe and conform to the specific requirements of all Rights-of-Way, including easements, court entries, rights-of-entry, or action filed in court in accordance with the code of the applicable governing agency. The cost of the operations necessary to fulfill such requirements shall be included in the price bid for the various items of the contract unless specific provision is made in the contract specifications for such cost under specific items of the contract.

Work Limits - The Contractor is responsible for containing all performed work and all equipment, materials, vehicles, etc., used to complete the work within the rights-of-way of the streets, roadways, temporary easements, permanent easements and the property boundaries of the project improvements, as shown on these plans.

The Contractor is responsible for cost of the restoration for any area outside of the right-of-way, permanent easements or project property boundaries to former condition of better and to the satisfaction of the Property Owner and the County Engineer.

Pruning - Branches or growth which interferes with the free construction of the project may be removed from trees/bushes that are to be saved by the use of pruning tools with prior approval from the County Engineer. All pruning tools used and methods employed shall meet the approval of the County Engineer. The branches shall be removed with a good clean cut made flush with the parent trunk or, if having a good healthy lateral branch, the cut shall be a good clean slanting cut close to and beyond the healthy branch. All pruning cuts shall be painted with an accepted pruning preservative. The cost of all work and expenses connected with tree pruning shall be included in the price bid for Item 201 - Clearing & Grubbing, As Per Plan. No Extra payment shall be made.

Structure Adjustment - The Contractor shall field verify the top of casting elevation of all proposed drainage structures. If precast structures are utilized, a minimum of the top 0" and a maximum of 12" shall be field placed either with grade rings or brick and mortar to allow for field adjustment.

Water Main Separation - The Contractor shall maintain eighteen inches (18") vertical and ten feet (10') horizontal separations between and water main and sanitary sewers.

Engineer Quantities - The Contractor shall not order materials or perform work for items designated by plan note to be used "As Directed By the County" unless authorized by the County Engineer. The actual work locations and quantities used for such items shall be incorporated into the final change order governing completion of this project.

Cleanup - The Contractor shall be responsible for the immediate cleanup of any debris, mud or dirt tracked or spilled on the public streets or private drives whether inside or outside the project area. The Contractor is responsible for the cost of any services contracted and/or completed by the County Engineer in the cleanup of any tracking or spillage anytime during project construction. The Engineer may require the Contractor to perform weekly street cleaning if excessive amounts of dirt and mud are left along the street. This may include removal by sweeping, power cleaning, or manual methods. The cost of this work shall be included in the various contract items, unless otherwise specified.

Construction Debris - All debris, rubble, unusable materials, and items not salvaged by the Owner shall become the property of the Contractor and shall be removed from the site by the Contractor and disposed of properly.

Elevation Datum - Elevations are based on North American Vertical Datum of 1988 (NAVD 88)

Access - Access to adjoining properties shall be maintained at all times.

Access to the Work Area - During construction of the project, Contractor shall minimize vehicular travel along unstabilized sloped areas. Contractor shall maintain a minimal number of access points for construction vehicles to enter the offroad work areas.

Complete Project - The Contractor shall be required to construct a complete project, meeting the intent of these drawings and specifications. Any items required to complete the work that do not have a specific method of payment described shall be performed by the Contractor, the cost of the work shall be included in the price for the various related items.

108.07 Failure to Complete on Time - For each working day that any work shall remain uncompleted after the contract completion date, the sum specified herein will be deducted from any money due to the Contractor, not as a penalty, but as liquidated damages; provided, however, that due account shall be taken of any adjustment of the completion date granted under the provisions of 108.06.

Permitting the Contractor to continue and finish the work or any part of it after the date fixed for its completion, or after the date to which completion may have been extended, will in no way operate as a waiver on the part of the County of any rights under the contract.

Original contract amount from more than	Schedule of Liquidated Damages	
	to and including	Liquidated damages each calendar day
\$0	\$500,000	\$400
\$500,000	\$2,000,000	\$600
\$2,000,000	\$10,000,000	\$900
\$10,000,000	\$50,000,000	\$1,650
over \$50,000,000		\$3,970

"As Constructed Drawings" - The Contractor shall keep an accurate record of all elevation deviations from the drawings and make this information available during working hours. At the completion of work, the Contractor shall give to the owner a marked-up set of drawings showing all deviations of locations and elevations as shown on the drawings.

Item 201 - Clearing & Grubbing, As Per Plan - All trees, stumps, brush, saplings, flood wood, fallen timber, branches, or other obstructions on this project, within the riparian wooded corridor created for point access or within the top of banks not labeled log jam, woody debris, or tree removal, shall be disposed of by the Contractor as designated below. Dead and laying trees over the ditch causing no stream blockage, shall be included within the lump sum for Item 201 - Clearing & Grubbing, As Per Plan and will not be paid separately as tree removal. Some living trees leaning in the direction of the ditch, may need to be removed, based upon the decision of the County Engineer or Project Inspector. The Project Inspector may choose to designate trees to be removed with bright paint. Select trees may be left along the berm and will be designated prior to construction by the Project Inspector. Trees to be left will be designated with a bright ribbon. All debris (log jam, woody debris, tree removal included) shall be disposed of by one of the following methods:

- Chip and mulch all materials in place and in a location as approved by the County Engineer or the Project Inspector. The chipped materials may be either worked into the soil adjacent to the ditch within the work limits or hauled outside of the watershed to an approved site, unless requested to be left by the parcel owner. If a wooded riparian corridor exists, the chips may be spread within the wooded area.
- Place the logged trees outside of the temporary right-of-way of the project in a location that has been designated by the landowner adjacent to that section of the project. These logs shall be neatly piled and also free of any excavated material. Written permission shall be obtained by the landowner for this operation. No stumps or brush shall be left on site.
- Place the material in any other place as designated by the County Engineer. This does not mean that the County Engineer will always designate such a place. If the County Engineer chooses not to designate such a place, then the Contractor shall exercise one of the above two options.

Problem Area Identification

Log Jam Classification: A partial or complete channel obstruction with multiple large trees and/or branches with significant woody debris and sediment collected around the jam. Payable log jams noted on profile sheets and shown on Sheet 26 are as recorded May 8th, 2024. These areas are subject to change due to weather and flooding. Dispersion and/or creation of log jams due to such weather will change payable locations and the classification will be decided by either the Project Inspector or the Drainage Engineer on site. Log Jams are to be paid for at the contract unit price per each, for Item Spec - Log Jam Removal.

Tree Removal Classifications: All living trees that are to be removed shall be designated as follows:
Tree Removal (TR): Identify areas where living trees and/or stumps are to be removed at the edge of the channel to the top of the bank. The living tree/stump removal shall be necessary due to flow restriction or classified as being in poor health as determined under the direction of the Allen County Drainage Engineer. Tree Removal (TR) will also be applicable for trees over 12" deemed to be removed for tile placement of the projects amendments. Size of living tree/stump removals to be designated by size (measured at 54" height for trees) denoted in the plans by:
TR18 - over 12"-24" diameter
TR30 - over 24"-36" diameter
TR48 - over 36"-60" diameter
TR60 - over 60" diameter.

Woody Debris (WD) Classification: A location either consisting of a dead tree(s) laying across or within the ditch that has accumulated debris, such as tree limbs and leaves, or any location where smaller debris such as tree limbs, leaves, sediment, etc., has accumulated of distinguishable size in the ditch. A woody debris payable location shall have at least partial stream blockage. If no stream blockage is present and it is within the ditch banks on either side, then such location is to be paid for within the lump sum for Item 201 - Clearing and Grubbing, As Per Plan. Payable woody debris are noted on profile sheets and shown on Sheet 26 and are as recorded May 8th, 2024. These locations are subject to change due to weather and flooding. Dispersion and/or creation of woody debris locations due to such weather will change payable locations and the classification will be decided by either the Project Inspector or the Drainage Engineer on site. Woody debris locations are to be paid for at the contract unit price per each, for Item Spec - Woody Debris Removal.

Pipe/Farm Drain Identification

Locate pipes and farm drains outletting into the ditch. Note the condition and size of the drain outlets and whether they need to be replaced. Where the ditch is open enough to locate pipe outlets with GPS, we will utilize GPS. Where cover is too dense for GPS, the outlets will be located by approximate methods. If flows from tile are erosive and show erosive qualities, use Rock Channel Protection, Type "C", W/Filter at these areas to correct these qualities and payment for this shall be included in the unit bid price for Item 203 - Open Ditch Excavation, As Per Plan.

Other Items: The Engineer shall locate any other items or area that may be hindering the flow of storm water through the channel. A description and plan designation shall be assigned to each item.

Item 202 - Catch Basin Removed, As Per Plan - The Contractor shall remove, clean, and store all frames and grates for catch basins that have been removed as part of the project. All frames and grates will remain the property of Allen County and will be removed from the storage area by Allen County. Where existing catch basins and manholes are shown for removal and the inlet and/or outlet pipe is not shown to be used, the pipe may be abandoned in place, with County approval. The ends of the pipe shall be sealed with precast stoppers or with masonry of a type and thickness acceptable to the Engineer. Payment for the above work shall be included in the unit price bid for Item 202 - Catch Basin Removed, As Per Plan.

**1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
TOWNSHIP SECTION 32, ALLEN COUNTY**

GENERAL NOTES



ALLEN COUNTY ENGINEER
1501 N SUGAR ST,
LIMA, OH 45801

DESIGNER	
MDV 5-5-2025	
REVIEWER	
MAD 11-22-2024	
PROJECT ID	
1322	
SHEET	TOTAL
2	26

Item 202 - Pipe Removed, As Per Plan - The Contractor shall remove existing storm pipe that is encountered, within proposed storm sewer trench, throughout the project. Where catch basins and manholes are shown for removal and the inlet and/or outlet pipe is not shown to be used, the pipe may be abandoned in place. The ends of the pipe shall be sealed with precast stoppers or with masonry of a type and thickness acceptable to the Engineer. Payment for the work shall be included in the unit price bid for Item 611 - Conduit, As Per Plan.

Item 203 - Open Ditch Excavation, As Per Plan - Spoil from the excavation process shall be leveled not to exceed one (1) foot in depth and shall not be placed in such a manner as to restrict surface water flow. The entire temporary right-of-way may be utilized to accomplish this operation. All excavated material not needed in the construction of this improvement, or establishment of the filtration/maintenance drives, shall be spread or disposed of so it will not interfere with the flow of water into the drainage ditch. If necessary, the Contractor shall be required to remove the material from the project site (residential areas) or to an approved location within the project site (requires the County Engineer's and property owner's approval). Permission from property owners shall be in writing and a copy of this document shall be provided to the Allen County Engineer's Office.

The temporary right-of-way shall be seventy-five (75) feet from the top of ditch bank. The Contractor shall have full use of this right-of-way during the construction of this project. The permanent easement for maintenance shall be twenty five (25) feet from the top of bank.

Full depth raking shall be completed a minimum of twice with the second raking perpendicular (90 degrees) to the first. Debris shall be picked up by the Contractor. All material, including but not limited to, concrete, trash, solid waste, and rubbish, other than the clearing & grubbing related items, that is encountered within the seeding limits must be hauled away and disposed of outside of the watershed by the Contractor. Payment is included in the unit price bid for Item 203 - Open Ditch Excavation, As Per Plan. The Contractor is responsible for inspecting the entire limits of the project before submitting the bid.

All rocks encountered during the project, which are three (3) inches in diameter or larger, must be removed from the site by the Contractor. If required, a rock picker must be utilized in dense areas. It may be necessary to go over an area more than once to adequately pick up the rocks. If directed by the County Engineer or Project Inspector, the Contractor may be required to disk the area and pick up the rocks several times until the work is approved. Payment for this work is included in the unit price bid for Item 203 - Open Ditch Excavation, As Per Plan.

All residential properties, as well as other non-agricultural areas that may be indicated on the plans, shall be free of all stones 1 inch or greater in any dimension and shall have a smooth surface. In such areas, hand raking will be required if inaccessible to machines, and may be required if machines do not provide results equivalent to hand raking. Payment for the work necessary for proper preparation of the seedbed shall be included in the unit price bid for Item 203 - Open Ditch Excavation, As Per Plan.

Unless otherwise shown, a ten (10) foot section of HDPE, polyethylene drainage tubing, of the same size as the outletting tile shall be installed on the outlet of tile laterals designated with pipe/replace end on the plans. The new outlet shall be installed using a manufactured connector. Said conduit shall extend eighteen (18) inches out of the bank, as measured from the bottom of the conduit. No aluminum pipe or lock seamed helical pipe will be accepted. Rock channel protection shall be placed under the new outlet immediately following the outlet re-construction. If specified, the animal guard shall also be placed immediately following the outlet re-construction. The County Engineer has the right to limit the Contractor's work to sections. The Contractor will be required to complete an area to the County Engineer's approval before being allowed to proceed to the next segment. It shall be the responsibility of the Contractor to maintain all surface and subsurface drainage facilities in the proper working order during all phases of construction. Landowners or other interested parties should report all violations of the contract directly to the Allen County Engineer's Office.

Item 203 - Open Ditch Excavation, (Ditch Relocation), As Per Plan - Areas of open ditch rerouting shall be constructed in accordance to the typical cross section shown on Sheet I7 and shall use an ODOT Item 671 Erosion Control Matting Type G equivalent or better for stabilization of the newly constructed section and shall be paid within the unit bid price, Item 671 Erosion Control Matting. Excavated material removed from relocated areas shall be used to fill and re-grade the existing ditch locations. Excavated material to be paid within contract unit price, for Item 203 - Open Ditch Excavation, (Ditch Relocation), As Per Plan. All excavated material to fill and re-grade the existing ditch shall be paid within contract unit price, Item 203 - Embankment, As Per Plan. All seeding and mulching of Relocated and filled in areas shall be paid within the contract bid price, for Item 659 - Seeding and Mulching, As Per Plan.

Item 452, 6-in Non-Reinforced Portland Cement Concrete Pavement, As Per Plan - All new drive approaches are to extend from the edge of pavement to closest joint. Driveways 20-feet or greater in width shall be made in two (2) separate pours. Class MS Concrete shall be used at all locations where 6-in Non-Reinforced Cement Concrete Pavement is installed. The removal of rigid or non-rigid drive approaches shall be included in the unit price bid for this item. A 4-in thick stone base shall be required under any concrete pavement that is poured. Payment for the stone base shall be included in the unit price bid for this item. The Contractor shall make every effort to maintain access to private and commercial drives during construction. When not working in that area, stone shall be placed in open excavations as directed by the Engineer to provide access. Payment for supplying and placing the stone to maintain drive access shall be included in the unit price bid for Item 452, 6-in Non-Reinforced Portland Cement Concrete Pavement, As Per Plan.

Item 601 - Rock Channel Protection, Type "C", W/ Filter - Furnish material conforming to ODOT CMS 703.19. When specified with a filter, provide a filter consisting of filter fabric or a 6-inch (150 mm) bed of aggregate conforming to ODOT CMS 703.19. When placing rock, exercise reasonable care to ensure that the finished surface of the protected channel conforms to the channel cross-sections shown on the plans.

Locations for Item 601 - Rock Channel Protection, Type "C" W/ Filter to be placed within this project is as follows:

1. It is a labeled location on the plans. All locations shall conform to any dimensions as shown within the plans to slow erosion from erosive flows. (Ex: 117/S Copus Amendment Outlet into Ditch)
2. Misc. tile outlets in the ditch that are showing corrosive flows as designated by the Project Inspector or the Drainage Engineer on site. The placement of this protection shall be adequate to slow the erosion from corrosive flows.

Item 607 - Fence Removed and Replaced, As Per Plan - The Contractor shall be responsible for restoring all fences disturbed or damaged during construction, whether shown on the plans or not, to their original or better condition and location to the satisfaction of the Property Owner and the County Engineer.

Item 630- Street Sign Removed and Reinstalled, As Per Plan. - The Contractor shall be responsible for restoring all street signs disturbed or damaged during construction, whether shown on the plans or not, to their original or better condition and location to the satisfaction of the Property Owner and the County Engineer.

Item 611 - Conduit, As Per Plan - All conduit placed shall conform to the State of Ohio, Department of Transportation, Construction and Material Specifications item 707.33. The size of the conduit shall be as shown on the plans. Where the plans call for proposed conduit to cross either over or under an existing sewer, it shall be the responsibility of the Contractor to locate the existing pipe, both as to line and grade before starting to lay the proposed conduit for possible conflicts. All rigid material including, but not limited to asphalt, concrete, brick, curb, curb & and gutter, drive approaches, pipe, stone and soil necessary to be removed to obtain the proper elevations is to be included in the unit price bid for Item 611 - Conduit, As Per Plan. Prior to excavation of rigid material, the Contractor shall saw cut, full depth of material to create a straight edge for new material connection. When plans call for placement of new conduit into an existing structure, Contractor shall core existing structure using a circular bit. When connection of an existing pipe is necessary, Contractor shall make the connection of the two (2) pipes with a femco or approved gasket. Concrete and/or mortar is not an acceptable way to connect two (2) pipes. Payment for the above material and labor necessary to install and backfill the conduit shall be included in the unit price bid for Item 611 - Conduit, As Per Plan.

All 10" Conduit shown on the plans as a drive pipe underneath a driveway shall be corrugated metal, steel or concrete pipe; Plastic tile is not permitted for use as a driveway pipe.

For the 12" Conduit crossing S Copus Rd on the Northern Copus Amendment on Sheet 23, it is to be concrete encased at the width of the trench, depth of 2.5' above the spring line of the conduit, and approximately 22' in length. Pay for this 22' section of concrete encased 12" Conduit conforming to CMS 707.33 shall be included in the bid unit price for Item 611 - 12" Conduit, Concrete Encased, As Per Plan.

Item 611 - Catch Basin, As Per Plan

This work included all labor, material, and equipment required to construct or reconstruct manholes and catch basins of the type and sizes specified. Use removed or excavated materials in the work when the material conforms to the specifications; if not, then recycle or dispose of the material.

Construct the specified structures according to the plans. Place catch basins at the locations and elevations shown in the plans according to the Standard Drawings or as directed by the Engineer. Place manhole castings at the elevation and station with offset to the center of the casting or as directed by the Engineer. Place the manhole base at the elevation and station with offset to agree with the pipe station, offset and pipe invert elevation according to the Standard Drawings or as directed by the Engineer. Use flat slab top manholes as shown on the Standard Drawings. Do not remove the flat slab top manhole lifting devices.

Furnish and place lateral sewer connections including drops and leads. Locate or cut conduits as shown on the standard construction drawings so they do not protrude inside the structure walls. Prevent earth or debris resulting from construction operations from entering the manholes and catch basins. Remove any debris.

Backfill & Precast Concrete Modular Construction

Excavate to dimensions that provide ample room for construction. The Engineer will require that the removal of unsuitable material below the structure bedding. Replace unsuitable material with Structural Backfill as per CMS 703.11. When the Engineer requires the removal and replacement of unsuitable material below the bedding for precast structures and below the structure for cast-in-place structures, the County will provide compensation according to the Contract or by Supplemental Agreement. Ensure that the backfill in follows the completion of the work as closely as the type of construction will permit. Do not disturb the structure while backfilling. Backfill structures located within the pavement area with structural backfill to the sub grade. Backfill structures outside of the pavement area with excavated spoil material. Payment for Structural Backfill is to be included in the unit price for Item 611 - Catch Basin, As Per Plan.

Furnish precast bases on a compacted structural backfill bed having a minimum thickness of three (3) inches (75mm). Ensure that the structural backfill bed is level and uniformly support the entire area of the base. After placing the pipe, grout all openings between the pipe and structure less than four (4) inches (100 mm) with mortar and grout all openings between the pipe and structure greater than four (4) inches (100 mm) with non-shrink mortar. Seal all joints between modules.

Concrete (Cast-In-Place): Place and furnish structure concrete as shown on the plans.

Item 611 - Half Height Headwall, As Per Plan - This work included all labor, material, and equipment required to construct the half height headwall according to the type and size(s) specified. Use removed or excavated materials within the work when the material conforms to the specifications; if not, the recycle or dispose of the material.

Construct the specified structures according to the plans. Place half height headwalls at the locations and elevations shown in the plans according to the Standard Drawings or as directed by the Engineer. Place the half height headwall base at the elevation and station with offset to agree with the alignment station and offset according to the Standard Drawings or as directed by the Engineer.

Item 638 - Waterline, Valves and Fittings, As Per Plan - Match Existing Diameter and Material
12" Water Line: PVC SDR 26 Conforming to AWWA C909 or Ductile Iron Specified by ODOT CMS 748.01 and AWWA C600
8" Water Line: PVC SDR 26 Conforming to AWWA C909 or Ductile Iron Specified by ODOT CMS 748.01 and AWWA C600
6" Water Line: PVC SDR 26 Conforming to AWWA C909 or Ductile Iron Specified by ODOT CMS 748.01 and AWWA C600
4" Water Line: PVC SDR 26 Conforming to AWWA C909 or Ductile Iron Specified by ODOT CMS 748.01 and AWWA C600
Fittings: Conform to AWWA C900
Valves: Conform to Resilient Seated AWWA C509
Fire Hydrants: Conform to AWWA C502, Clow Eddy Model F-2641, or approved equal, with Storz Nozzles.
Polyethylene Encasement: Blue, 8-Mil, Conforming to ANSI A21.5/AWWA C105.
Hydrostatic Testing: Conform to AWWA C600
Sterilization: Conform to AWWA C651

Item 611 - Sanitary Service Pipe Replacement, As Per Plan - In the event that proposed storm sewer grades conflict with existing sanitary service grades, the Contractor shall replace and adjust the sanitary service to clear to proposed storm sewer by a minimum of 6" measured from outside of pipe to outside of pipe. Minimum pipe size for the sanitary service lateral shall be 4" and installed at a minimum slope of 1%. All Sanitary Service Replacement shall conform to CMS 707.45. All materials and labor necessary to complete the above work shall be included in the unit bid price for Item 611 - Sanitary Service Pipe Replacement, As Per Plan.

Item 659 - Seeding and Mulching, As Per Plan - Seeding and Mulching shall conform to the notes contained herein, the requirements of the County Engineer and CMS Section 659.

Waterway Seeding and Fertilizer are to be placed within the extents of the proposed top of banks where re-grading occurs (excluding ditch bottom) of the petition ditch with a Seeding and Mulching Mix as per CMS 659.09 Class 3B.

For areas of residential grass disturbance, residential Seeding and Mulching are to be placed within a minimum of twenty (20) feet offset of the top of banks and is to be placed utilizing the hydroseeding method with a Seeding and Mulching Mix as per CMS 659.09 Class 1.

In the event of a conflict, the more stringent requirement, determined at the sole discretion of the County Engineer shall apply. In addition to these requirements, the seeding and mulching shall conform to the following:

Permanent seeding: disturbed areas that are at final grade must be permanently stabilizes within seven days of the most recent disturbance. Disturbed areas within fifty (50) feet of a surface water must be permanently stabilized within two (2) days of reaching final grade.

Temporary seeding: disturbed areas that are at not at final grade and that will be dormant for more the fourteen (14) days shall be temporarily stabilized within seven (7) days of the most recent disturbance. Disturbed areas within fifty (50) feet of a surface water and that will be dormant for more than fourteen (14) days shall be temporarily stabilized within two (2) days of the most recent disturbance.

All topsoil shall be of the highest quality and free of all stones, trash, and other deleterious materials greater than 1/4". Before placing topsoil, the disturbed areas shall be free of larger rocks and debris (greater than 3" in size). Organic content shall be tested by an approved lab and certified to be between 4-20% by weight. All topsoil shall be saturated with water and allowed to settle prior to seeding. Settled areas shall be refilled and saturated again prior to seeding. The grades shall match all existing landscape and any improvements completed under this plan. The Contractor shall scarify the soil surface to open the soil prior to seeding. All seeding, fertilizer, and mulch shall be placed within five (5) working days of placing topsoil.

Item 671 - Erosion Control Matting, Type C, As Per Plan - Erosion control matting shall be placed in the locations shown on the plans in accordance with ODOT Spec 671 Erosion Control Mats and the matting material for this project shall be Type C Temporary Erosion Control Mat or approved equal as shown in ODOT 712.11 Temporary Erosion Control Mats Materials.

Item 832 - Inlet Protection - The Contractor is responsible to keep all storm sewer inlets protected from excessive amounts of sediments using adequate filtering devices as approved by the County Engineer.

Item Spec. - Asphalt Driveway Removal and Replacement, As Per Plan - All new drive approaches are to extend from the back of the curb to the farthest edge of utility cut. Contractor shall saw cut full depth of material to create a straight edge of new material connection. The removal of rigid or non-rigid drive approaches shall be included in the unit price for Item Spec. - Asphalt Driveway Removal and Replacement, As Per Plan. Prior to placing 2" of Asphalt Concrete Surface Course, Type I, PG64-22, a 4" thick stone base shall be required under any drive approach that is replaced. Payment for the stone base shall be included in the unit price bid for Item Spec. - Asphalt Pavement Removal and Replacement, As Per Plan. The Contractor shall make every effort to maintain access to private and commercial drives during construction. When not working in that area, stone shall be placed in open excavations as directed by the Engineer to provide access. Payment for supplying and placing the stone to maintain drive access shall be included in the unit price bid for Item Spec. - Asphalt Driveway Removal And Replacement, As Per Plan.

Item Spec. - Remove and Reinstall Mailbox, As Per Plan - Areas of construction limits may require removal of mailboxes. If removal of a mailbox is required, special care shall be taken to remove and re-erect the mailbox to its original location. This work shall consist of removing and resetting mailboxes/mailbox supports in accordance with plan details at locations specified in the plans, or otherwise established by the Engineer. Posts shall be set per the first paragraph of 606.03, and shall in no instance be encased in concrete. Due care shall be exercised in such an operation as judged and directed by the Engineer. The Contractor shall be responsible for coordinating with the local post master regarding the timing of the movement of any mailbox to a new location. Payment under this item shall be limited to the final permanent installations. Temporary installations shall be in accordance with 107.10. However, the same material and size limitations as for permanent installations shall apply. Mailboxes/mailbox supports, complete in place, will be paid for at the contract unit price per each, for Item Spec. - Remove And Reinstall Mailbox, As Per Plan.

Item Spec - Pavement Removal and Replacement, As Per Plan - Replacement of pavement shall consist of 6"-8" of Class "C" concrete topped with 2" of Item 441 - Asphalt Concrete Surface Course, Type I, PG64-22 as shown in the Pavement Replacement and Backfill Detail shown on detail sheets. Class MS Concrete shall be used at all locations where Pavement Replacement is installed. Prior to pavement removal, the Contractor shall saw cut full depth of pavement. All materials and labor necessary to complete the above work shall be included in the unit bid price for Item Spec - Pavement Removal And Replacement, As Per Plan.

Special Conditions

Any drainage pipe, not shown on plans, that is discovered during excavation, shall be incorporated into the proposed improvements. If existing pipe is to be tied into proposed pipe, use a standard wye, tee, or insert tee for the appropriate pipe size.

Contractor shall fix any rutting that may occur due to operations performed. Area shall be seeded and mulched to restore area to original condition. Any damages to any private property shall be the responsibility of the Contractor and replaced or repaired at the Contractor's expense and at no expense to the owner or Allen County.

1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
TOWNSHIP SECTION 32, ALLEN COUNTY

GENERAL NOTES



ALLEN COUNTY ENGINEER
1501 N SUGAR ST,
LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

PROJECT ID

1322

SHEET TOTAL

3

26

ESTIMATE OF QUANTITIES								
MAIN DITCH SHEETS 5-17	MEADOWLANDS SHEETS 18-19	COPUS/117 SHEETS 20-22	COPUS NORTH SHEET 23	COPUS SOUTH SHEET 24	ITEM NO.	GRAND TOTAL	UNIT	DESCRIPTION
1		1		1	201	LUMP	SUM	Clearing and Grubbing, As Per Plan
1	11	6		1	201	19	EACH	Tree Removed, > 12" to 18"
		2		2	201	4	EACH	Tree Removed, > 24" to 36"
	1				202	1	EACH	Catch Basin Removed, As Per Plan
4,126			45	20	203	4,126	CY	Open Ditch Excavation, As Per Plan
			45	20	203	65	CY	Excavation, As Per Plan
			17.5	7.5	452	25	SY	6-in Non-Reinforced Portland Cement Concrete Pavement, As Per Plan
158					601	158	CY	Rock Channel Protection, Type C With Filter
	380				607	380	LF	Fence Removal and Replace, As Per Plan
	10				611	10	EACH	4" Inserta Tee Service Connection or Approved Equal
	10				611	10	EACH	6" Inserta Tee Service Connection or Approved Equal
	6	9	4	4	611	23	EACH	Catch Basin, No. 2-3, As Per Plan
		1			611	1	EACH	Manhole, No.3, As Per Plan
			1	1	611	2	EACH	Half Height Headwall, HW-2.1, As Per Plan
	8				611	8	LF	4" Conduit, Type C, As Per Plan
			38		612	38	LF	8" Conduit, Type B, As Per Plan
			308		611	308	LF	8" Conduit, Type C, As Per Plan
				10	611	10	LF	10" Conduit, Type D, As Per Plan
	45	25	22	36	611	128	LF	12" Conduit, Type B, As Per Plan
			22		611	22	LF	12" Conduit, Type B, Concrete Encased, As Per Plan
	1,241	345	60	529	611	2,175	LF	12" Conduit, Type C, As Per Plan
		1,167			611	1,167	LF	15" Conduit, Type C, As Per Plan
		59			611	59	LF	18" Conduit, Type B, As Per Plan
		1,067			611	1,067	LF	18" Conduit, Type C, As Per Plan
6,100					659	6,100	SY	Seeding and Mulching, Class 3B, As Per Plan
4,350	5,800	10,900	2,600	1,300	659	24,950	SY	Seeding and Mulching, Class 1, As Per Plan
168					671	168	SY	Erosion Control Matting Type C, As Per Plan
	6	9	4	4	832	23	EACH	Inlet Protection
7					SPEC	7	EACH	Log Jam Removal
12					SPEC	12	EACH	Woody Debris
		10.5			SPEC	10.5	SY	Asphalt Driveway Removal and Replacement, As Per Plan
	20	14.5	13.5	20	SPEC	68	SY	Pavement Removal and Replacement, As Per Plan

ENGINEERED QUANTITIES									
MAIN DITCH SHEETS 5-17	MEADOWLANDS SHEETS 18-19	COPUS/117 SHEETS 20-22	COPUS NORTH SHEET 23	COPUS SOUTH SHEET 24	ITEM NO.	GRAND TOTAL	UNIT	DESCRIPTION	
2					201	2	EACH	Tree Removed, > 36" to 60"	
2					201	2	EACH	Tree Removed, > 60"	
50					611	50	LF	4" Conduit, Type C, As Per Plan	
50					611	50	LF	6" Conduit, Type C, As Per Plan	
50					611	50	LF	8" Conduit, Type C, As Per Plan	
50					611	50	LF	10" Conduit, Type C, As Per Plan	
50					611	50	LF	12" Conduit, Type C, As Per Plan	
50					611	50	LF	15" Conduit, Type C, As Per Plan	
50					611	50	LF	18" Conduit, Type C, As Per Plan	
			10	5	5	611	20	EACH	4" Inserta Tee Service Connection or Approved Equal
			10	5	5	611	20	EACH	6" Inserta Tee Service Connection or Approved Equal
	25	50	25	25	611	125	LF	Sanitary Service Pipe Replacement, As Per Plan	
		3			630	3	EACH	Street Sign, Removed and Reinstalled, As Per Plan	
	25	25	25	25	638	100	LF	3/4" Copper Service Branch	
	25				638	25	LF	8" PVC SDR 26 Conforming to AWWA C909	
		50	25	25	638	100	LF	12" Ductile Iron Waterline and Fittings, Pressure Class 350, As Per Plan	
		3	2	2	SPEC	7	EACH	Remove and Reinstall Mailbox, As Per Plan	

1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
TOWNSHIP SECTION 32, ALLEN COUNTY

ESTIMATE OF QUANTITIES



ALLEN COUNTY ENGINEER
1501 N SUGAR ST,
LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

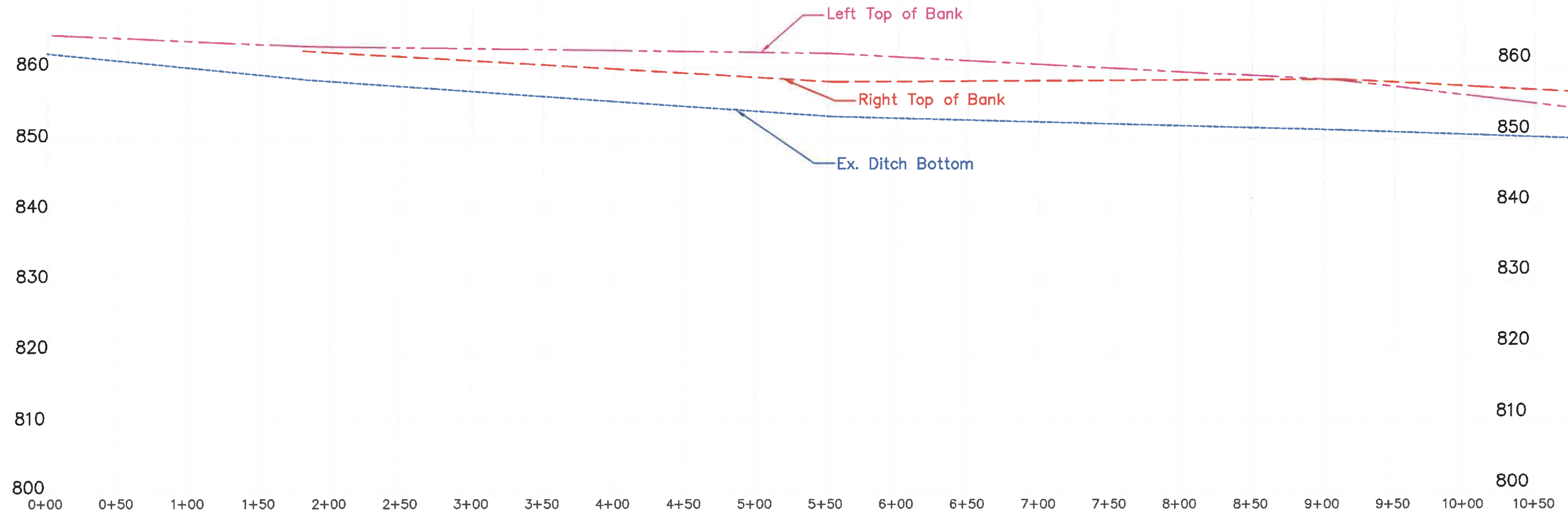
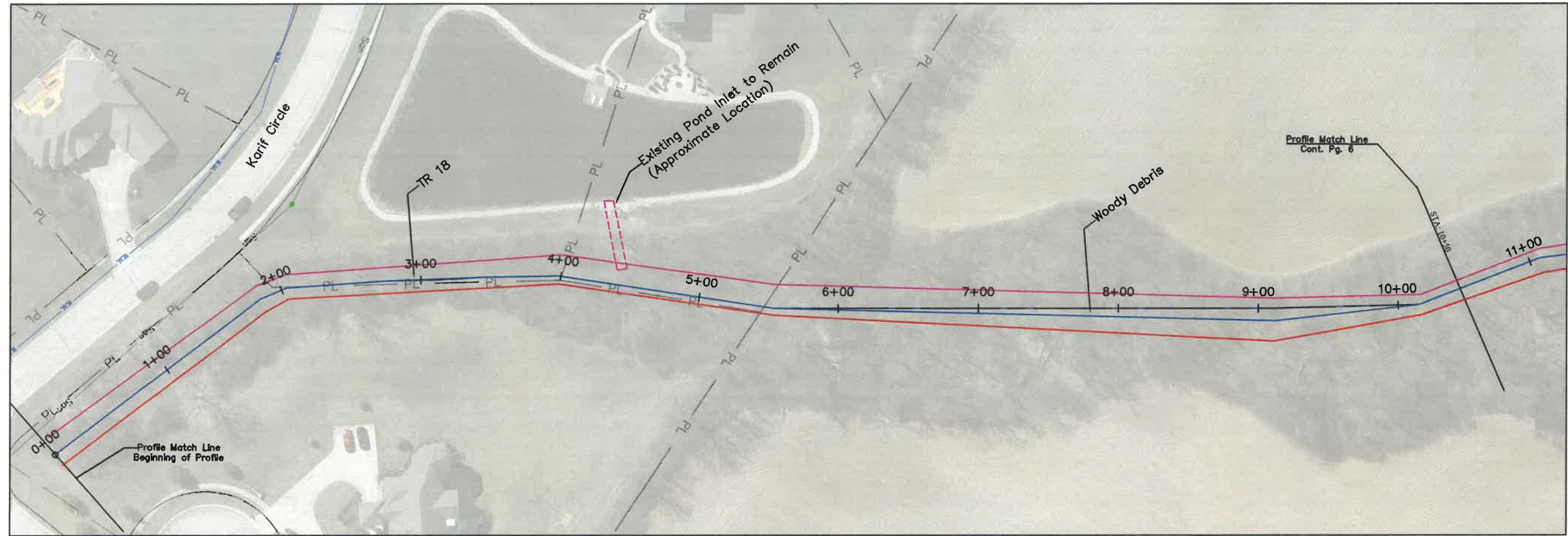
PROJECT ID

1322

SHEET TOTAL

4

26



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

PLAN AND
 PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

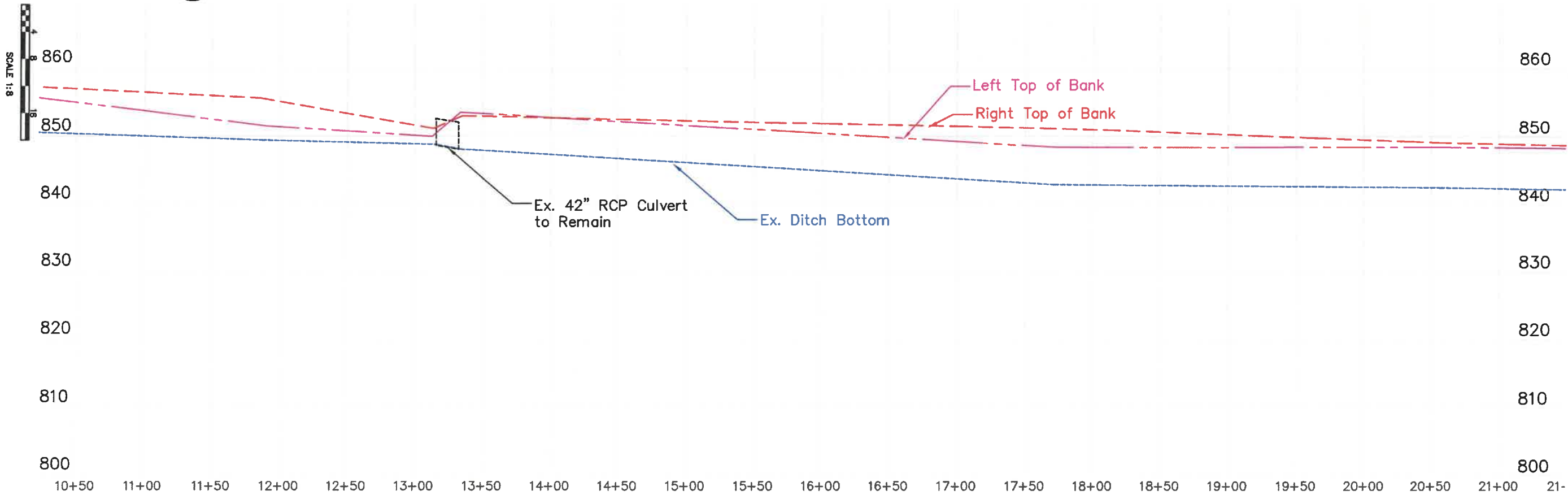
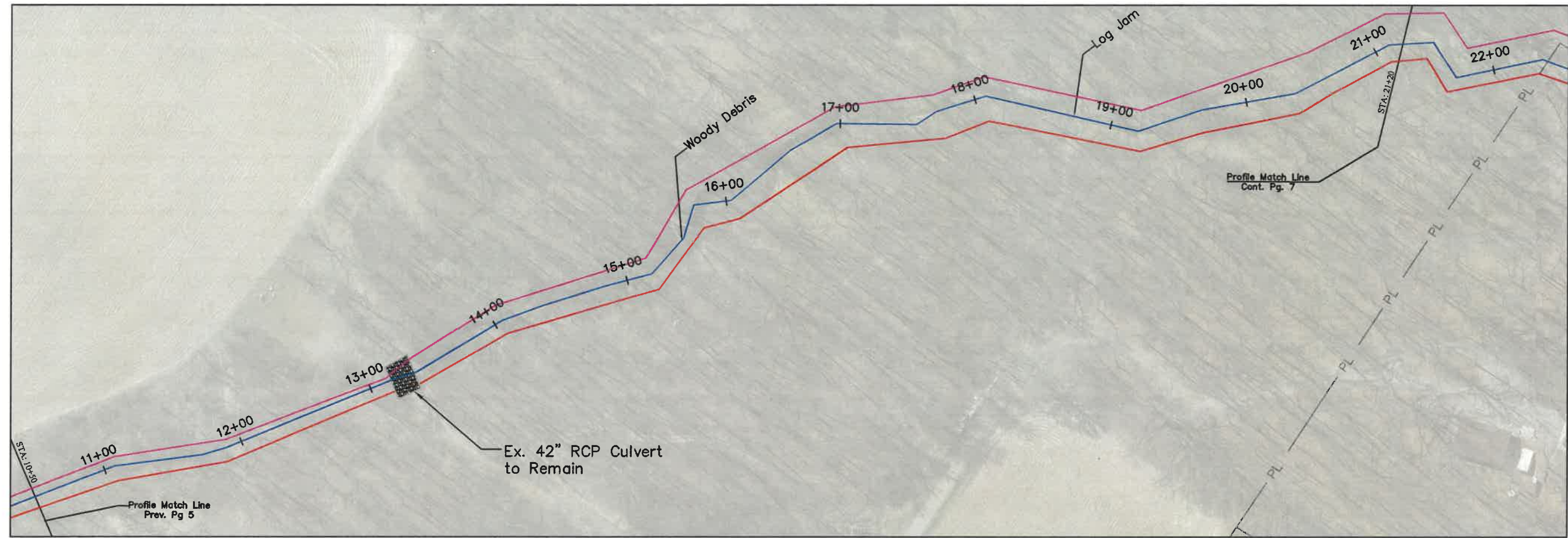
PROJECT ID

1322

SHEET TOTAL

5

26



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

PLAN AND
 PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

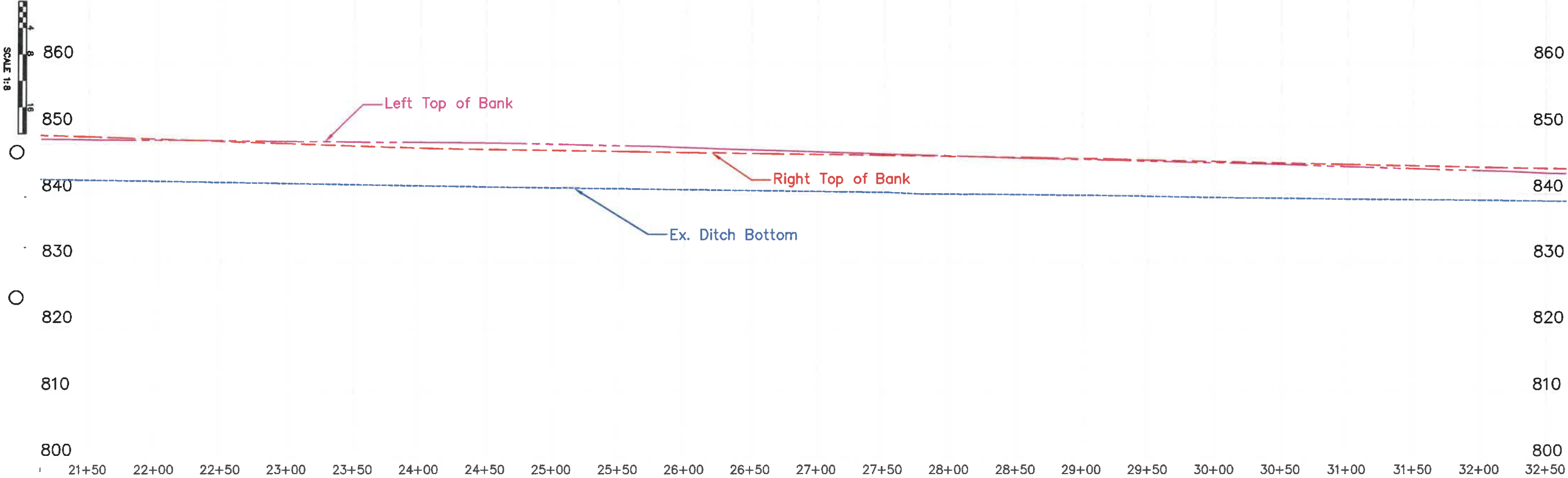
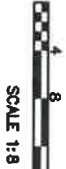
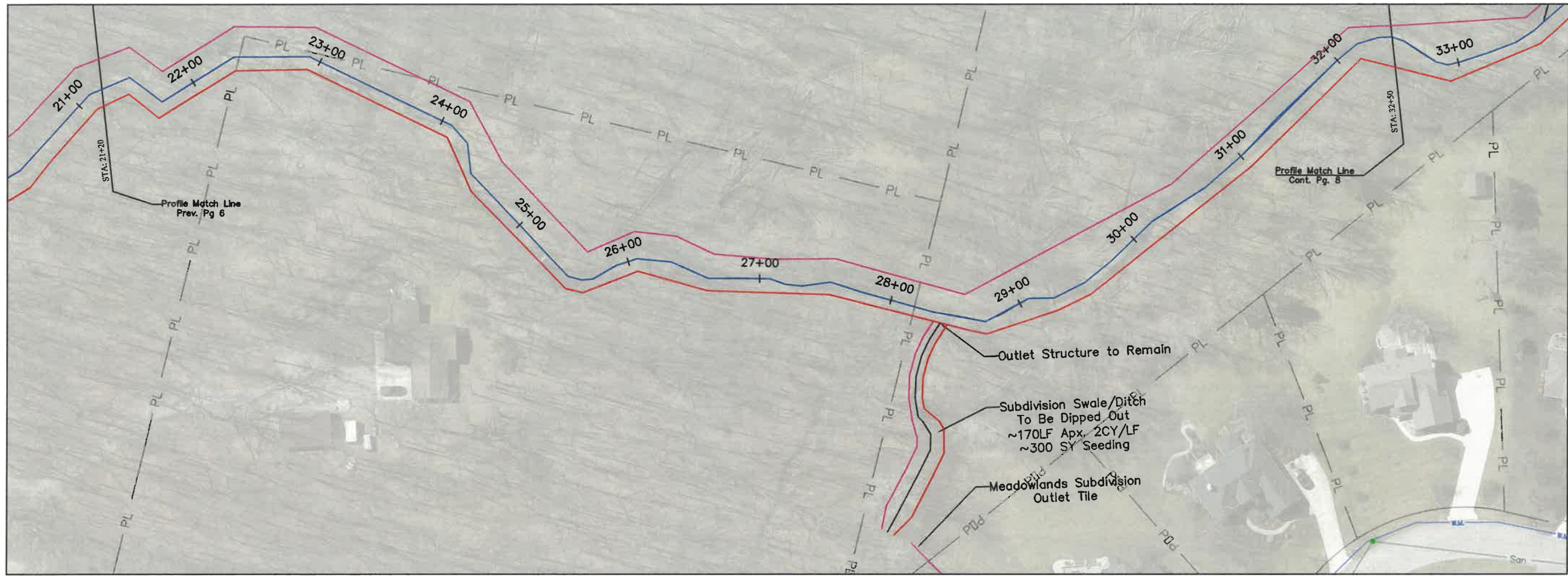
MAD 11-22-2024

PROJECT ID

1322

SHEET TOTAL

6 26



**1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
TOWNSHIP SECTION 32, ALLEN COUNTY**

PLAN AND
PROFILE

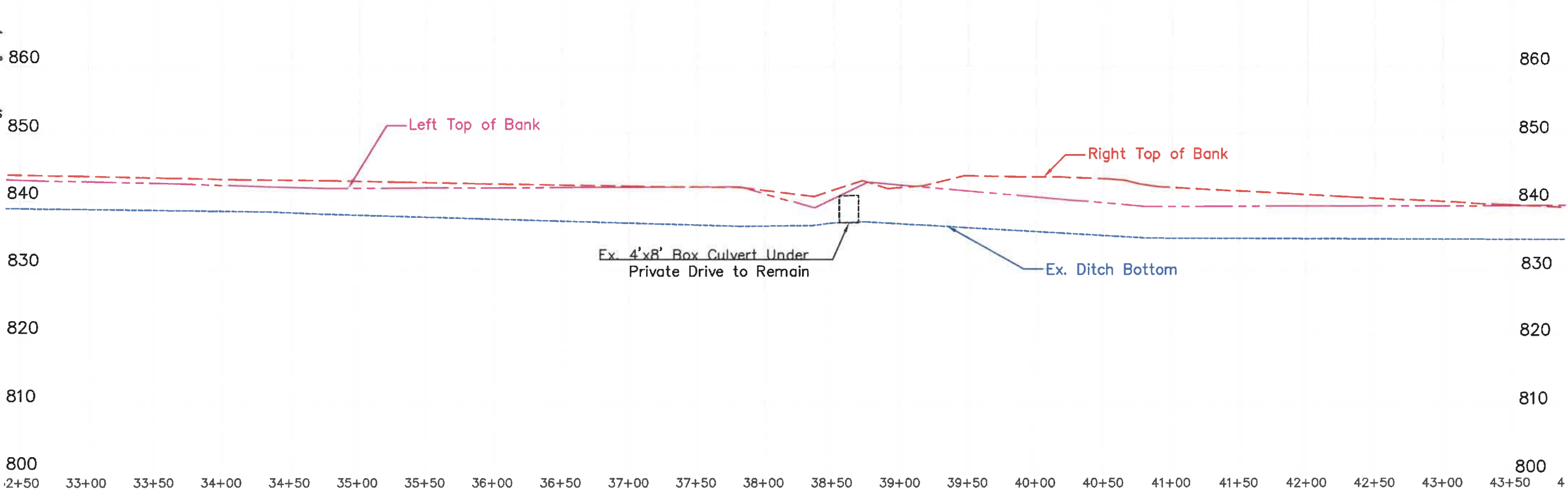
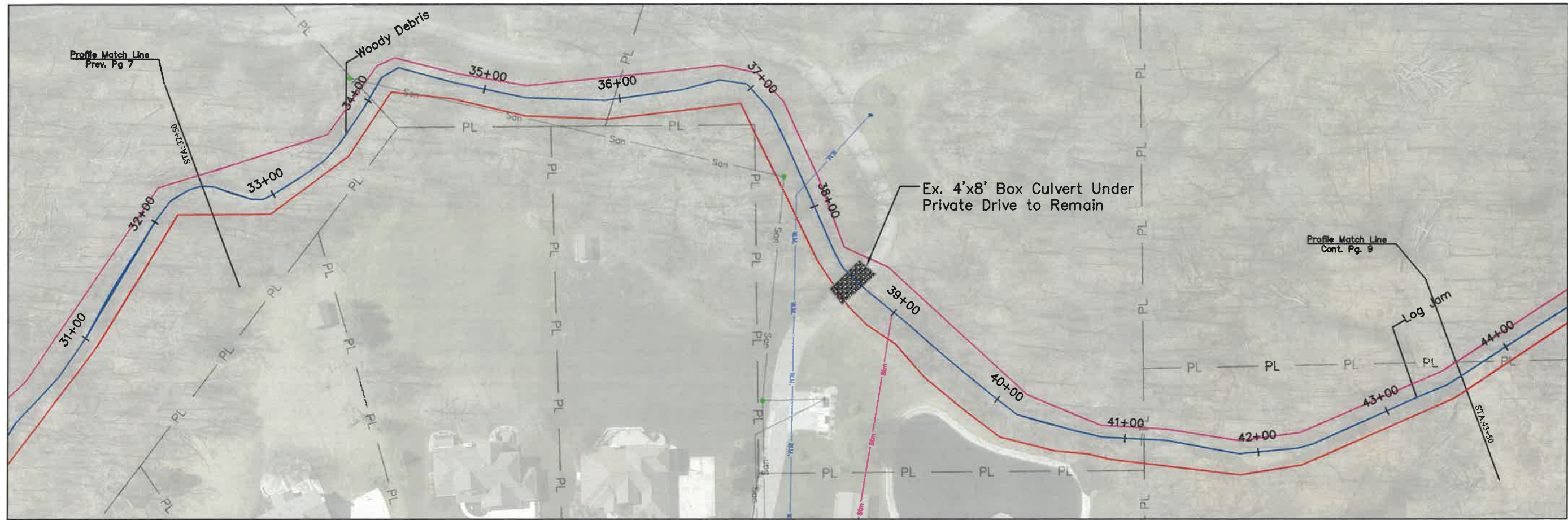


ALLEN COUNTY ENGINEER
1501 N SUGAR ST,
LIMA, OH 45801

DESIGNER
MDV 5-5-2025
REVIEWER

MAD 11-22-2024
PROJECT ID

1322
SHEET TOTAL
7 26



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

PLAN AND
 PROFILE



ALLEN COUNTY ENGINEERS
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

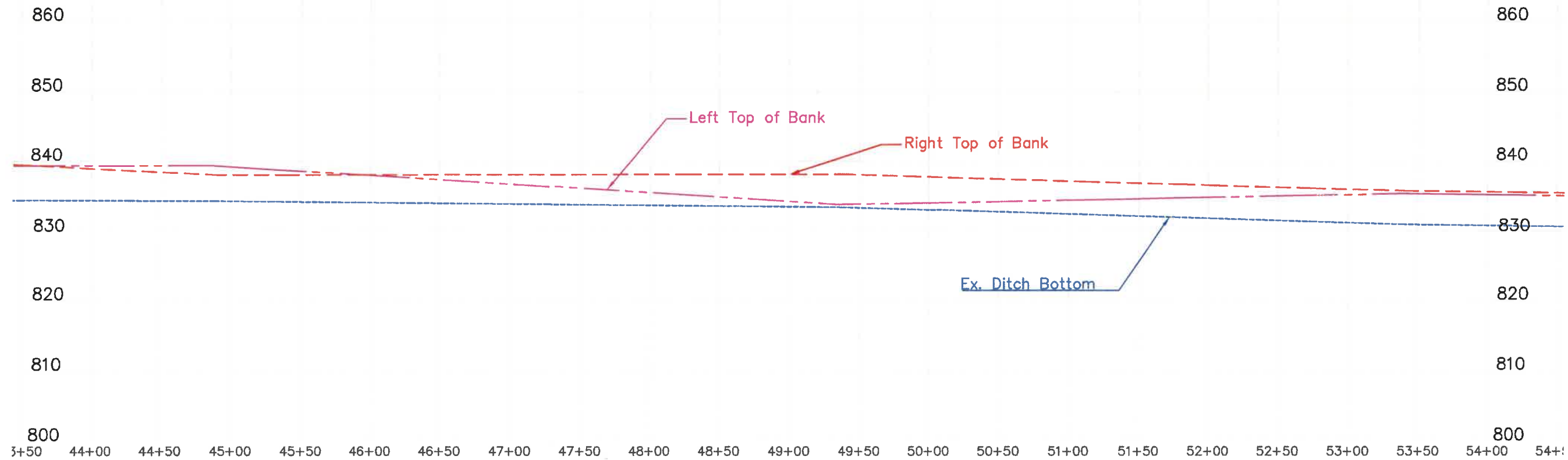
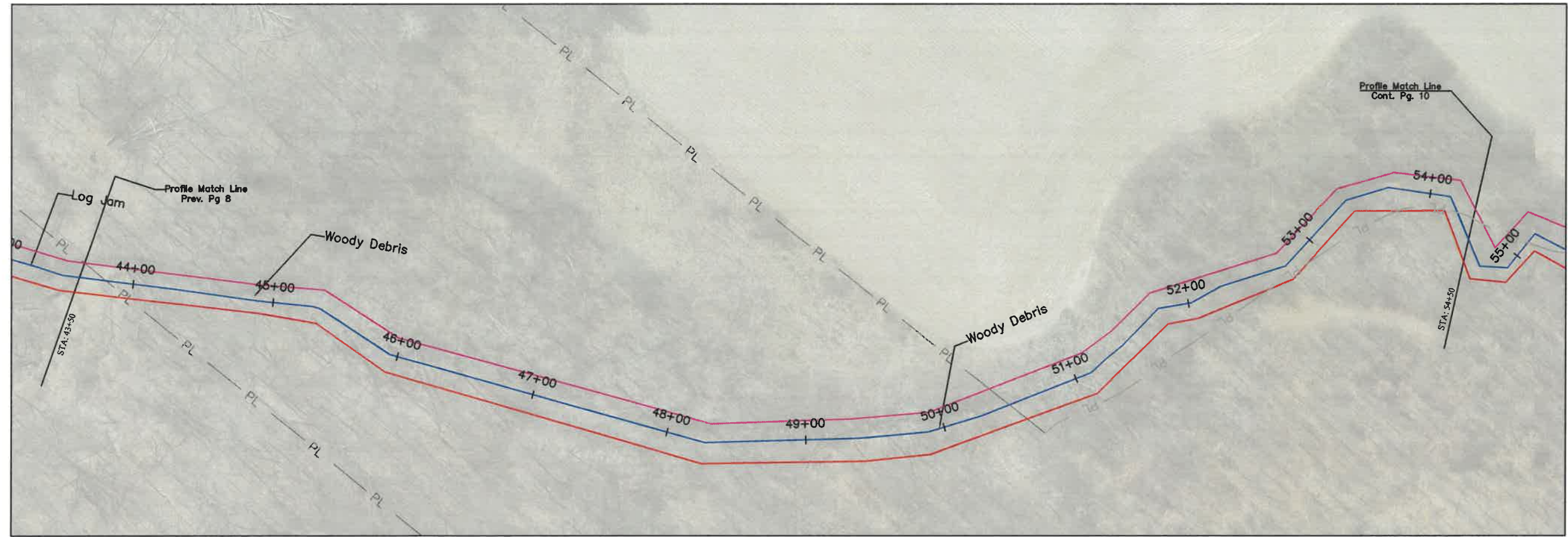
PROJECT ID

1322

SHEET TOTAL

8

26



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

PLAN AND
 PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

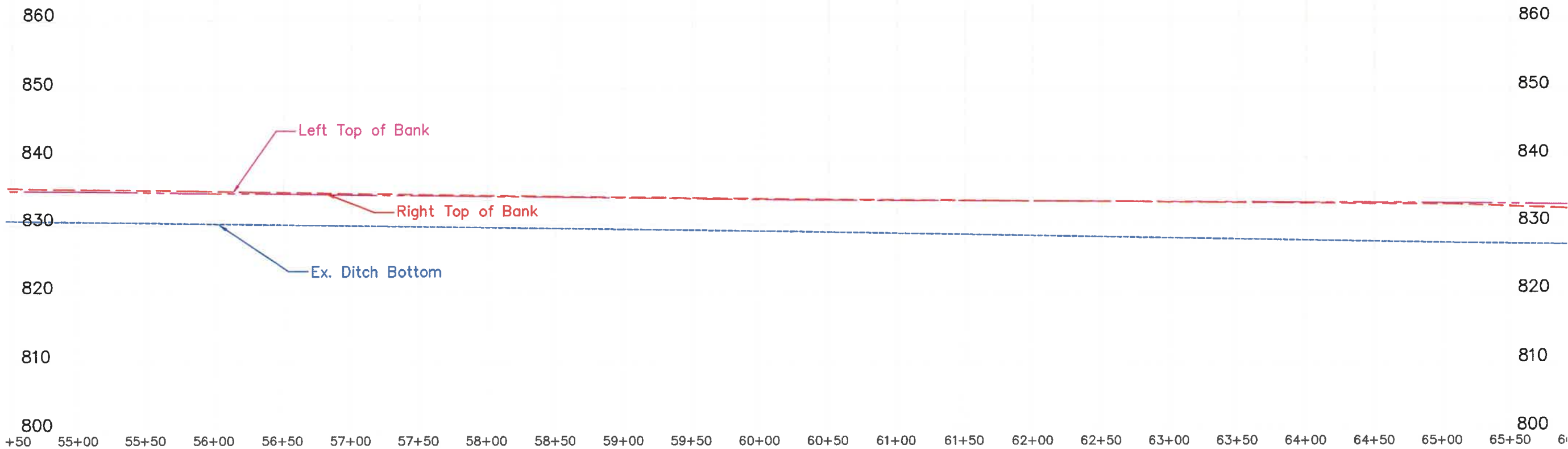
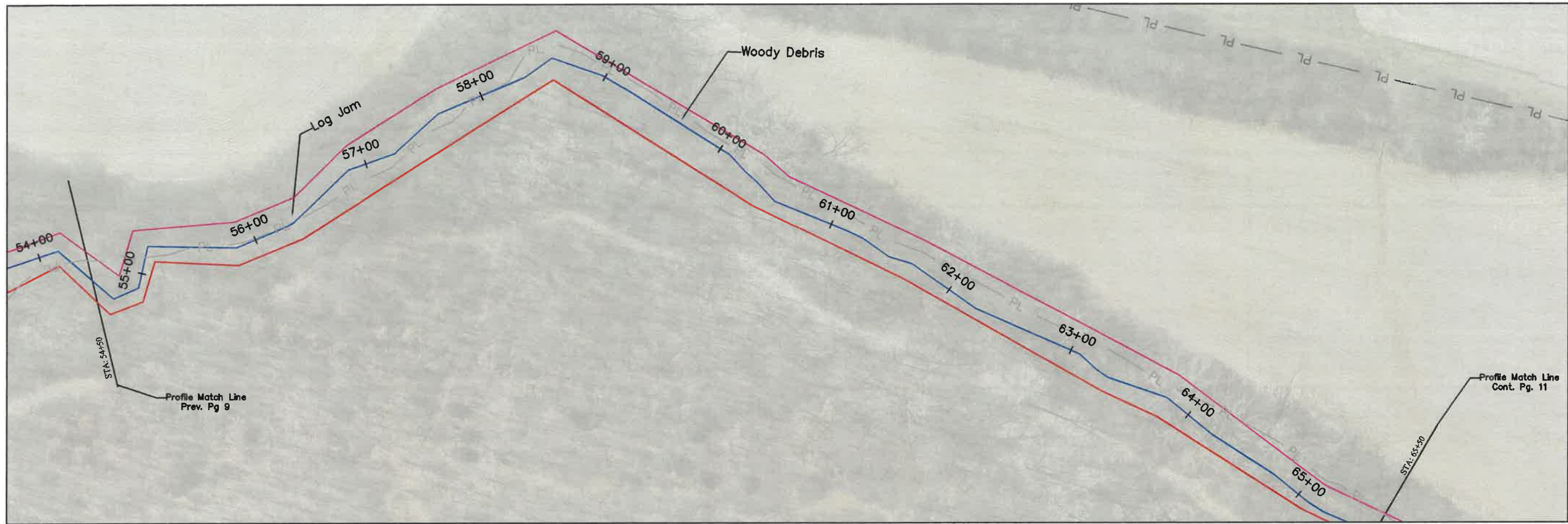
PROJECT ID

1322

SHEET TOTAL

9

26



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

PLAN AND
 PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

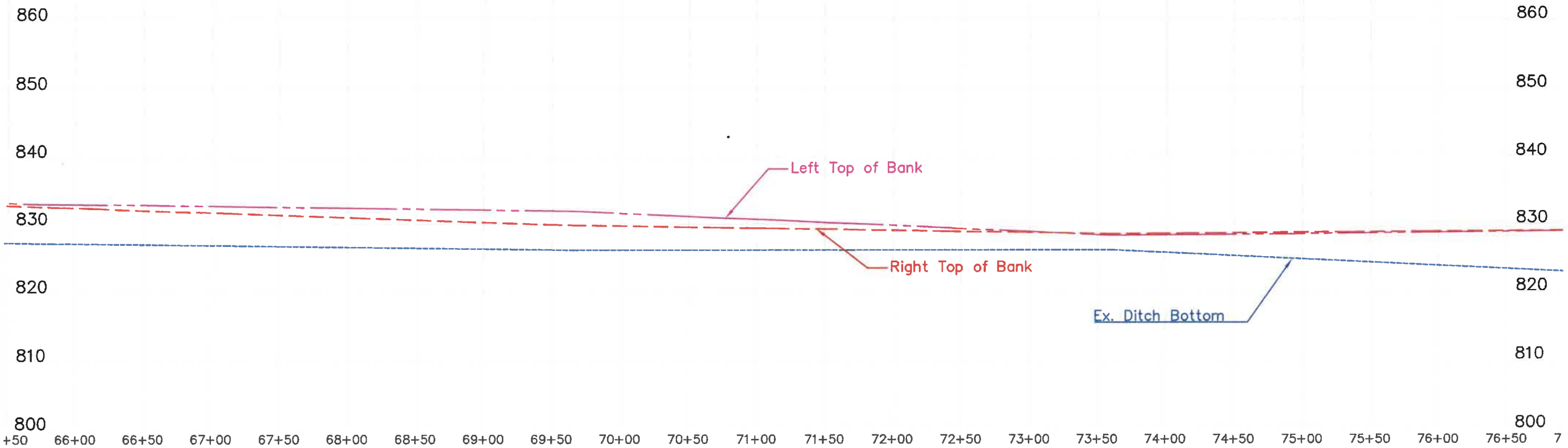
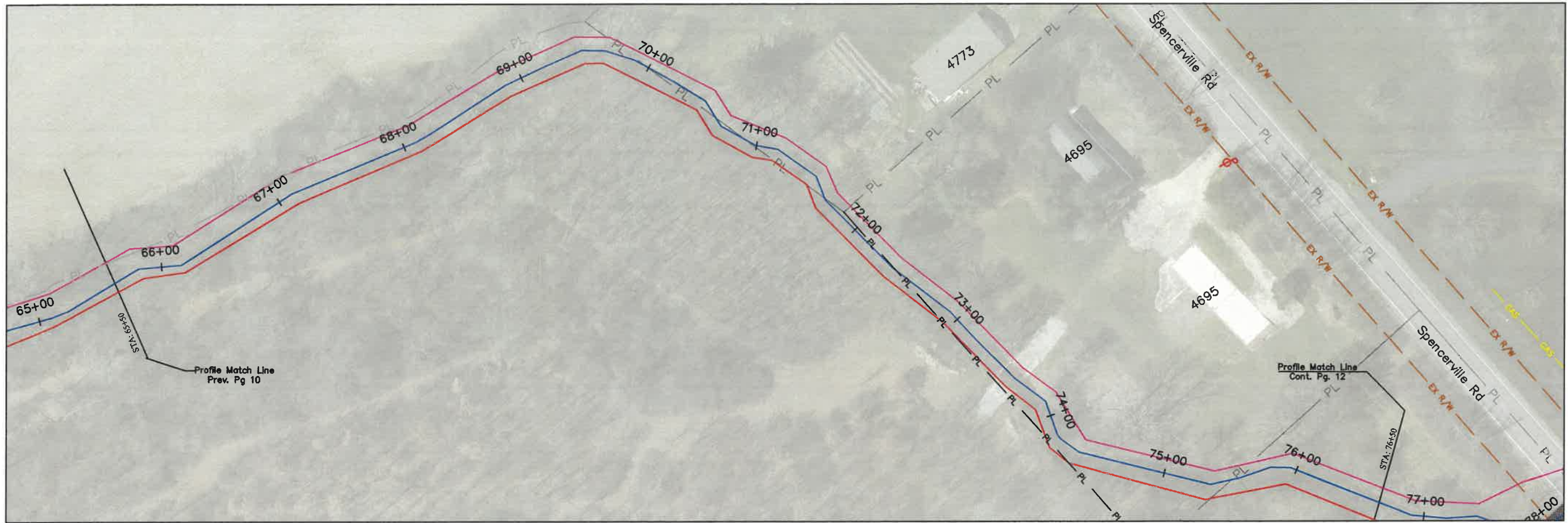
REVIEWER

MAD 11-22-2024

PROJECT ID

1322

SHEET	TOTAL
10	26



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

PLAN AND
 PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

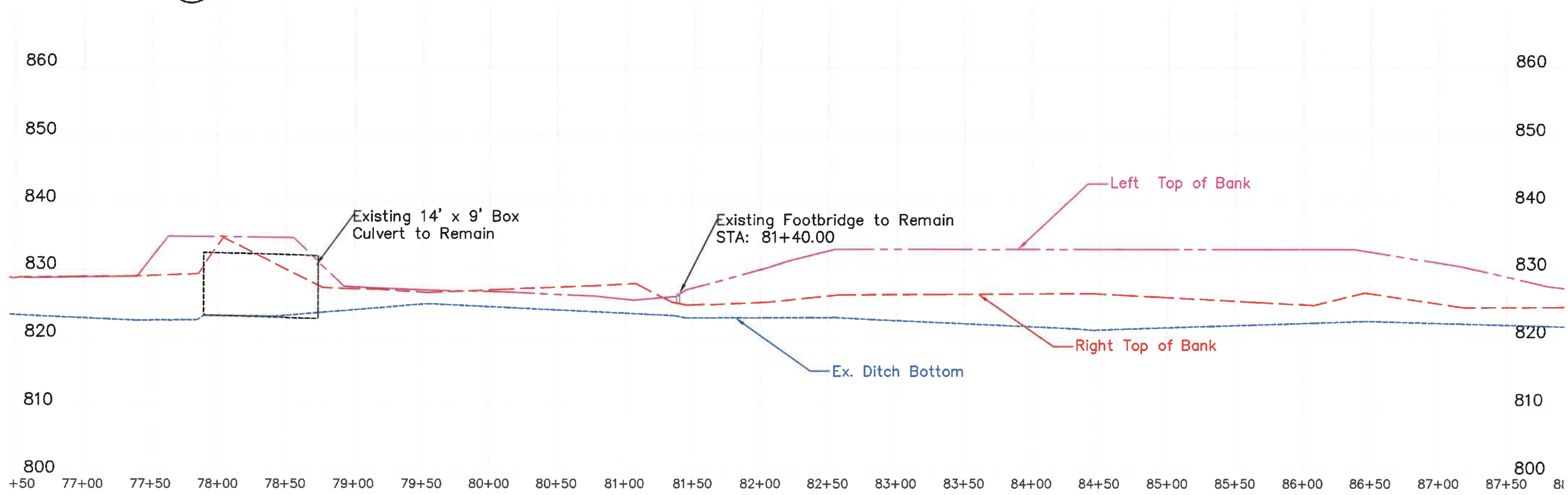
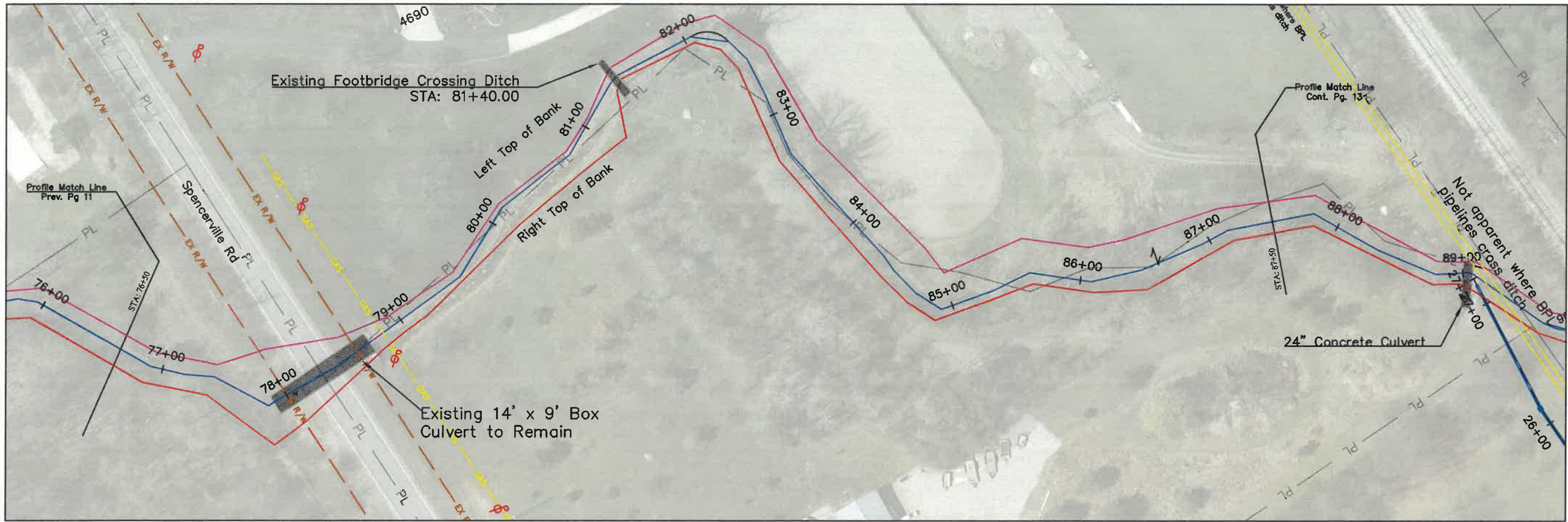
MAD 11-22-2024

PROJECT ID

1322

SHEET TOTAL

11 26



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

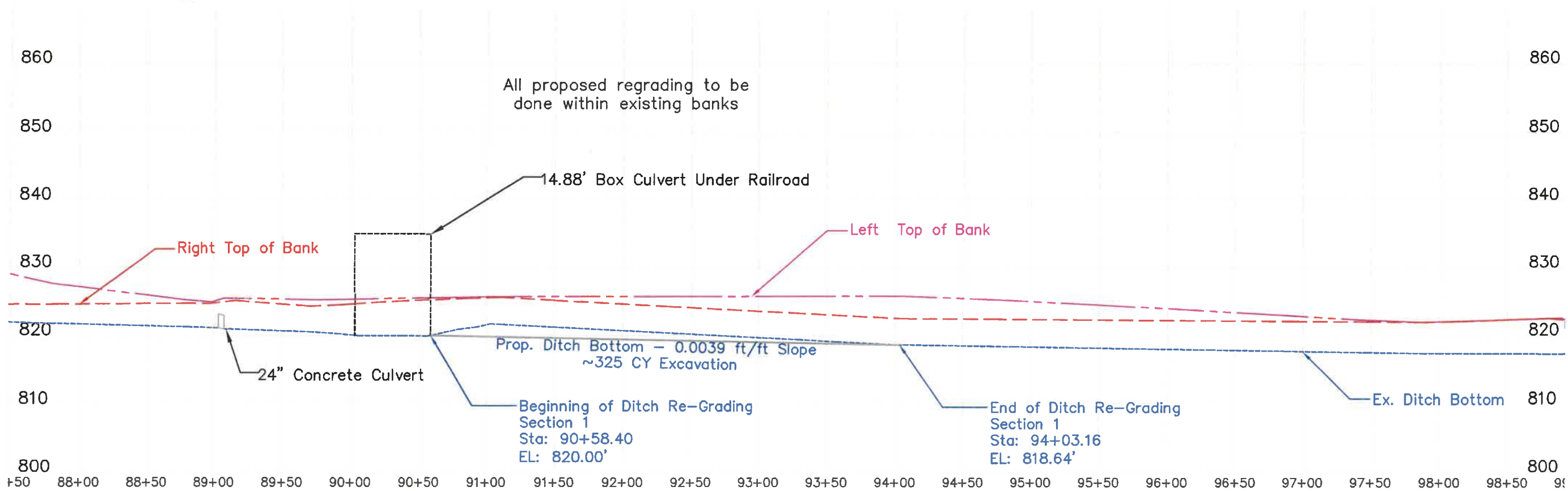
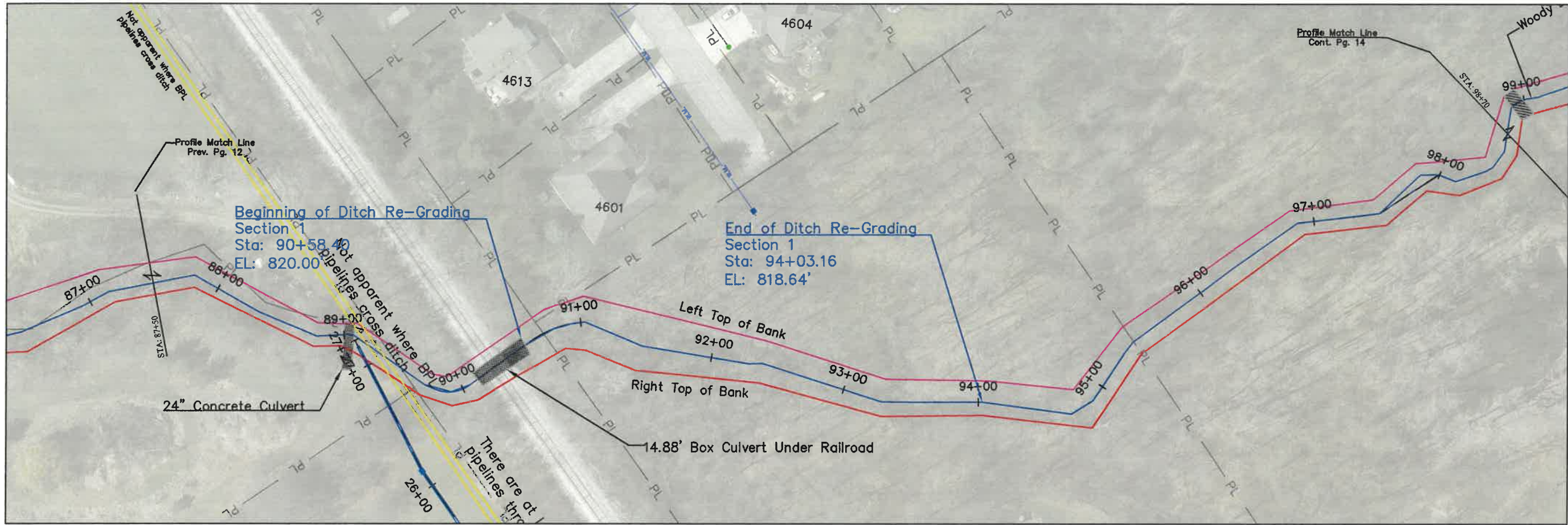
PLAN AND
 PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER
 MDV 5-5-2025
 REVIEWER
 MAD 11-22-2024
 PROJECT ID
 1322

SHEET	TOTAL
12	26



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

PLAN AND
 PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

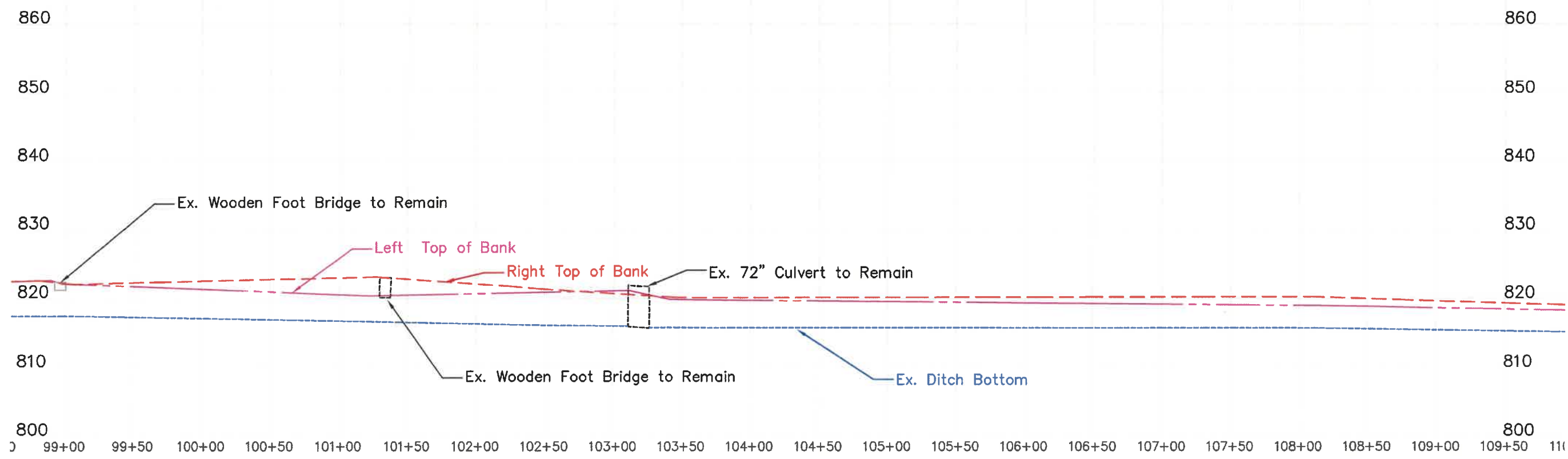
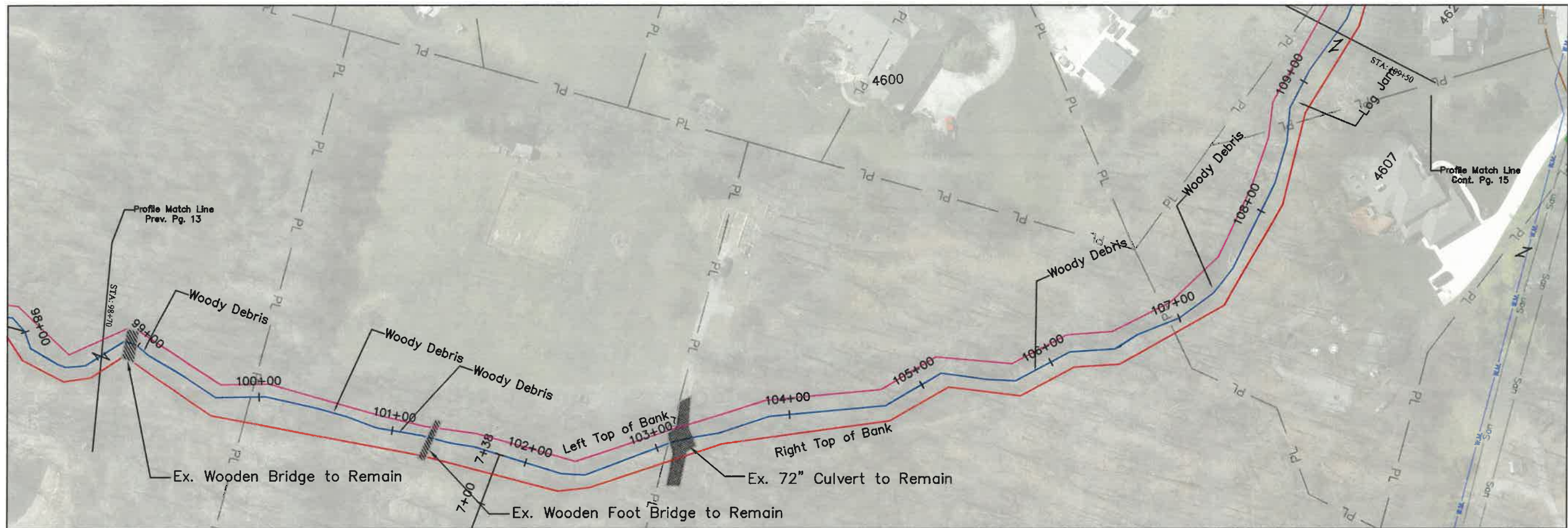
PROJECT ID

1322

SHEET TOTAL

13

26



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

PLAN AND
 PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

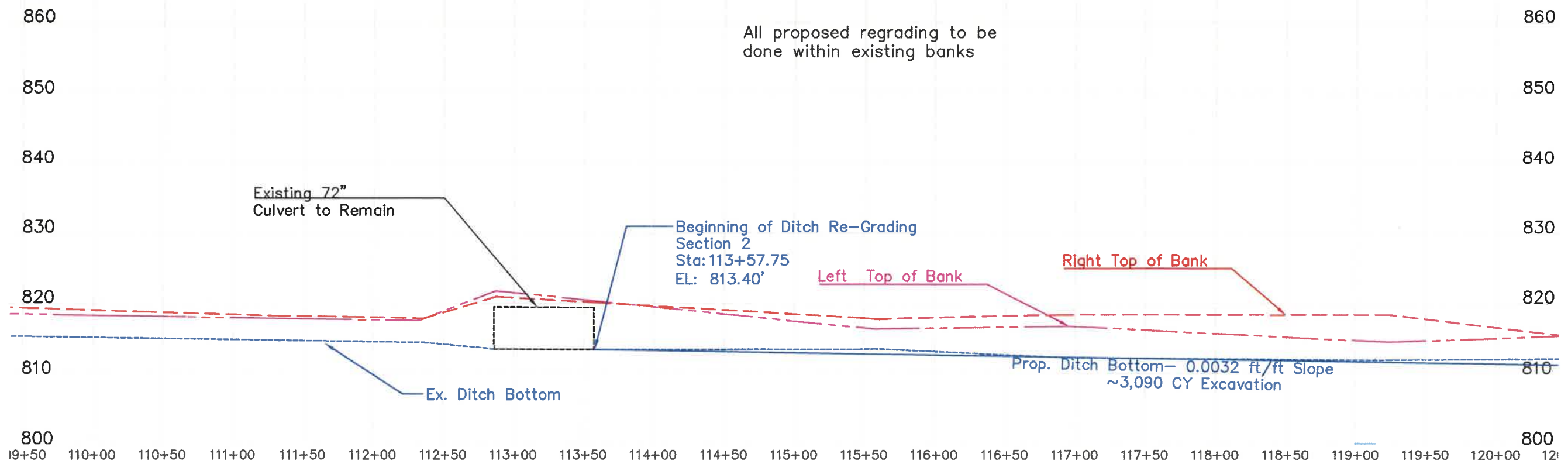
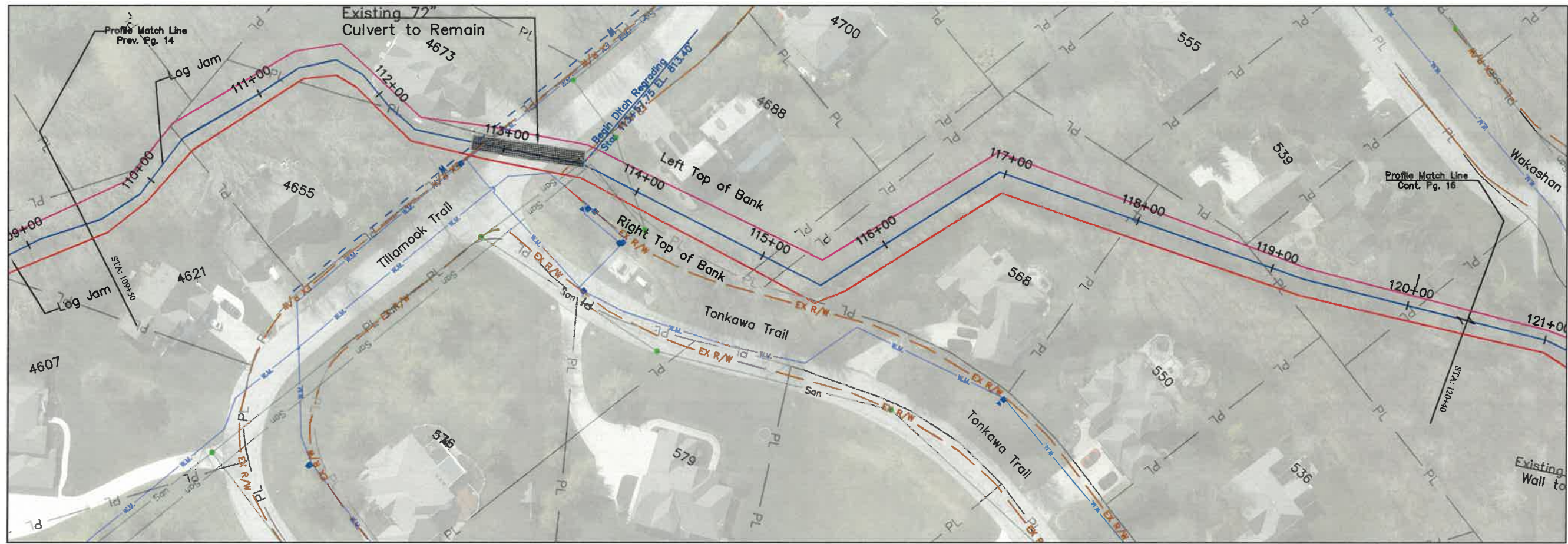
REVIEWER

MAD 11-22-2024

PROJECT ID

1322

SHEET	TOTAL
14	26



All proposed regrading to be done within existing banks

1322 INDIANBROOK-WILDBROOK ESTATES DITCH
 OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

PLAN AND
 PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

PROJECT ID

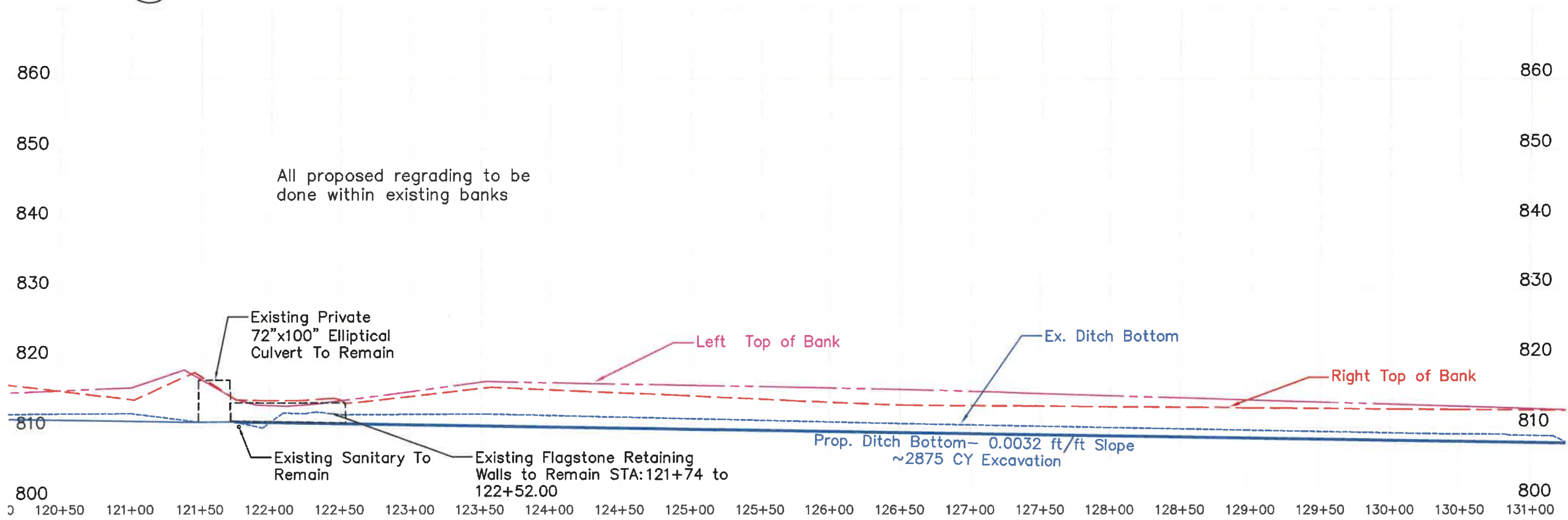
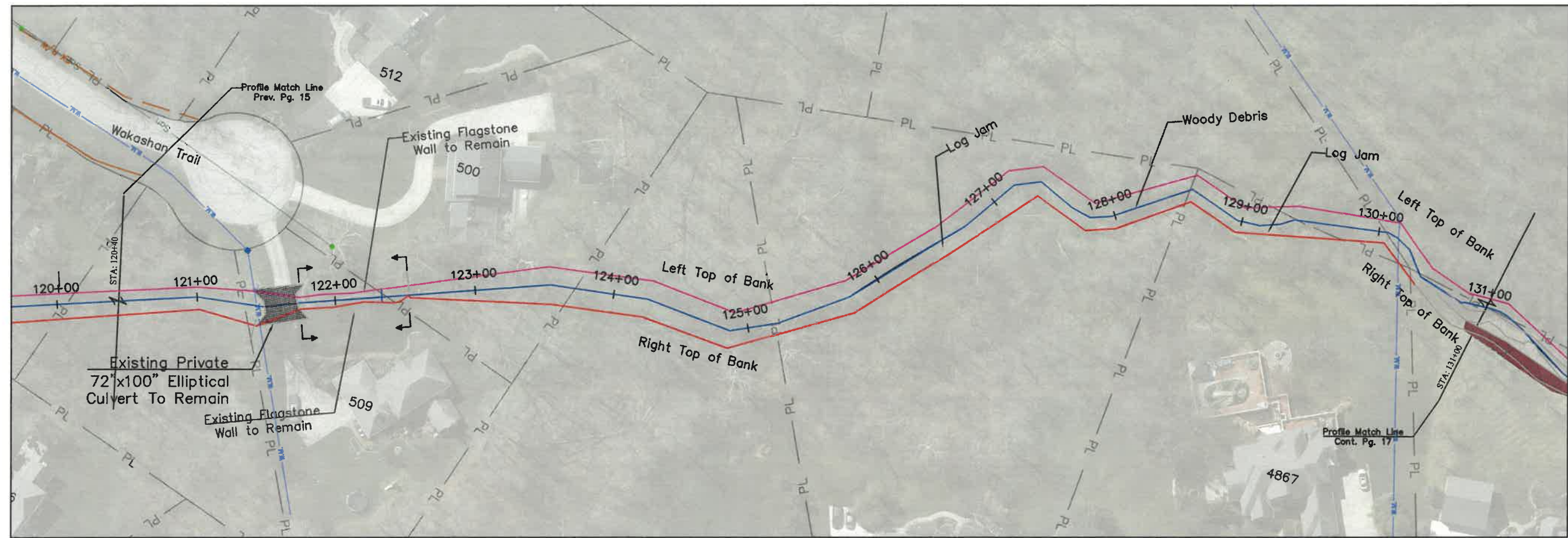
1322

SHEET

TOTAL

15

26



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

PLAN AND
 PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST.
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

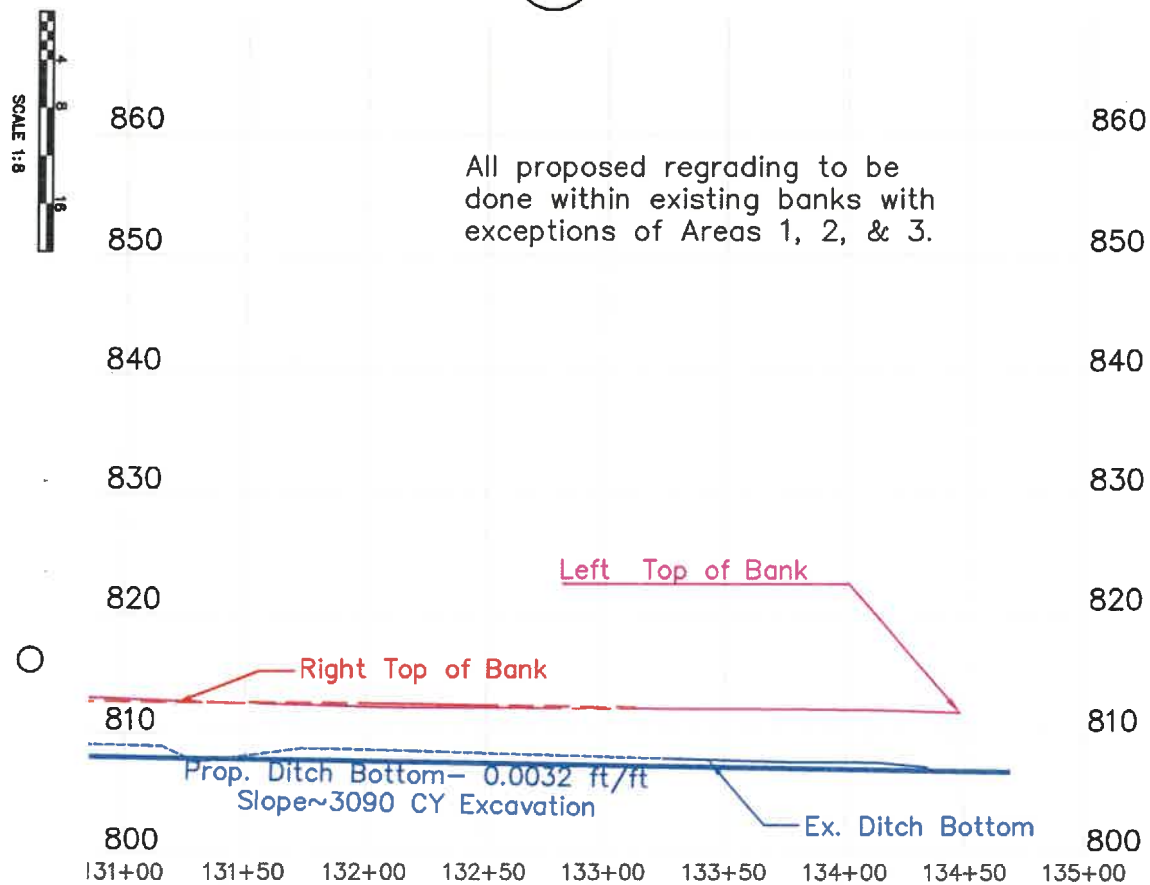
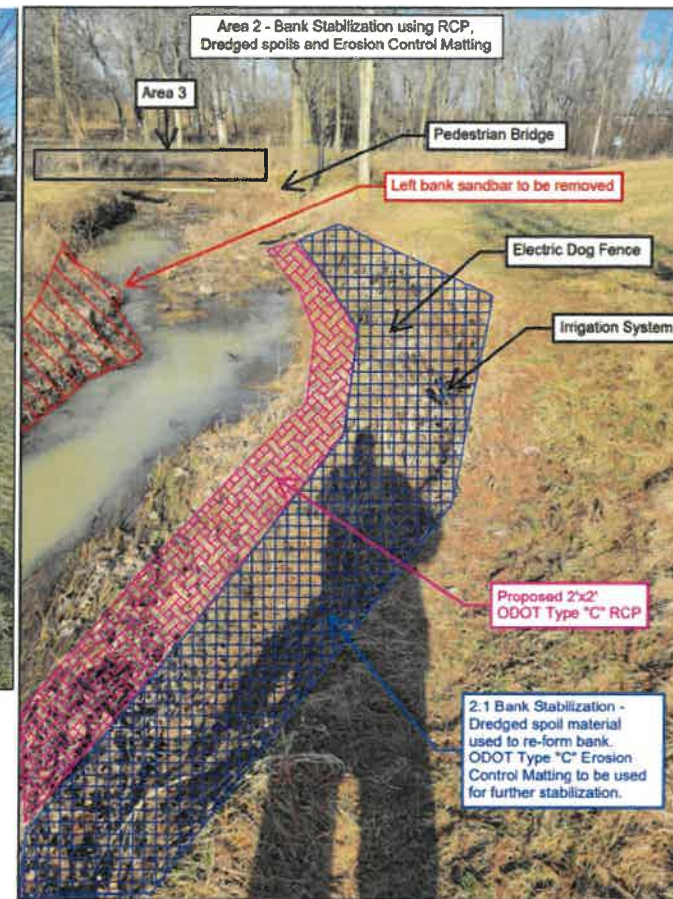
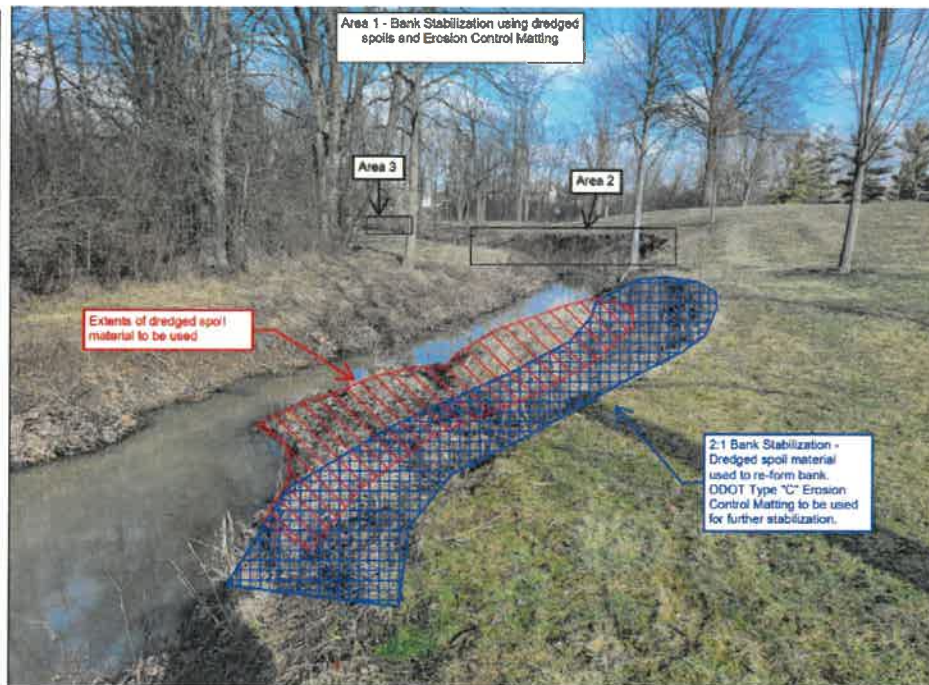
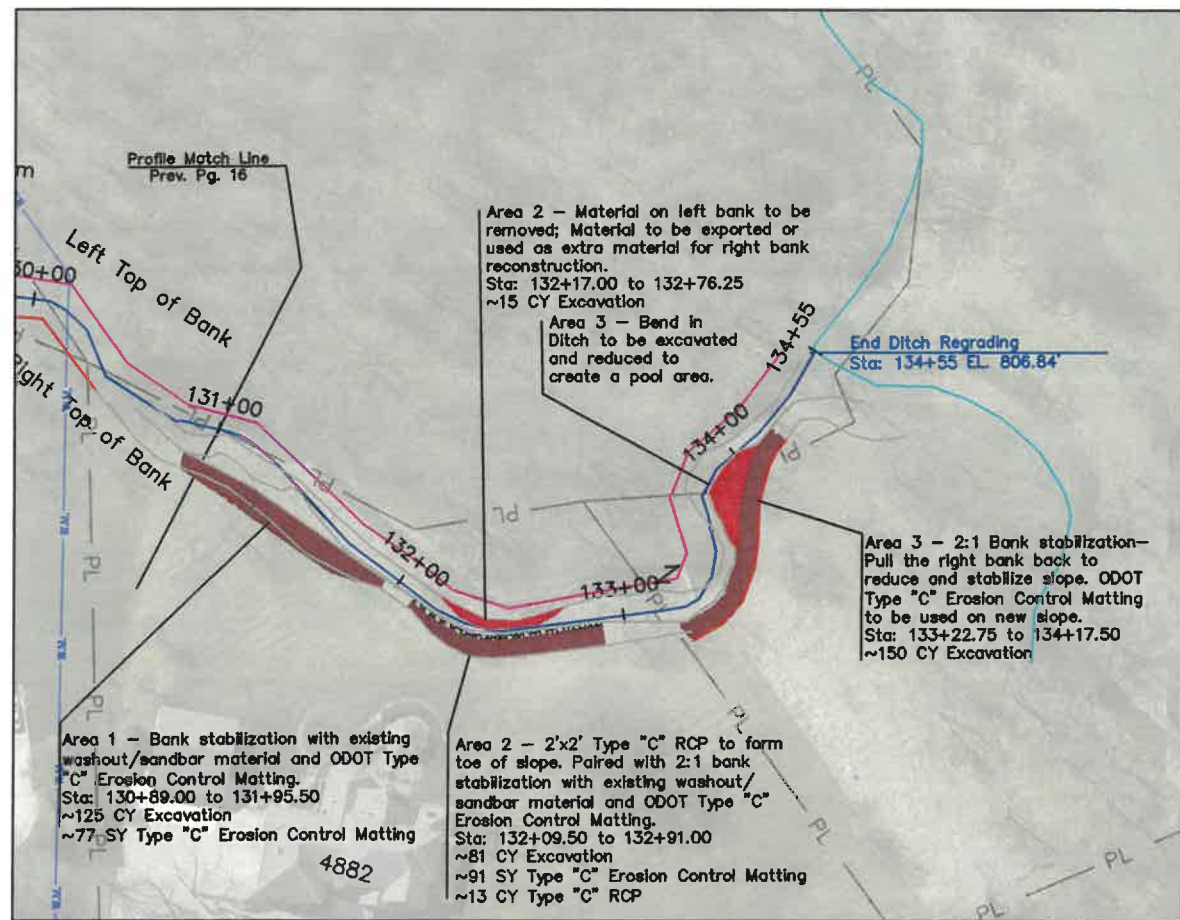
PROJECT ID

1322

SHEET TOTAL

16

26



**1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
TOWNSHIP SECTION 32, ALLEN COUNTY**

PLAN AND
PROFILE



ALLEN COUNTY ENGINEERS
1501 N SUGAR ST,
LIMA, OH 45801

DESIGNER

MDV 5-5-2025

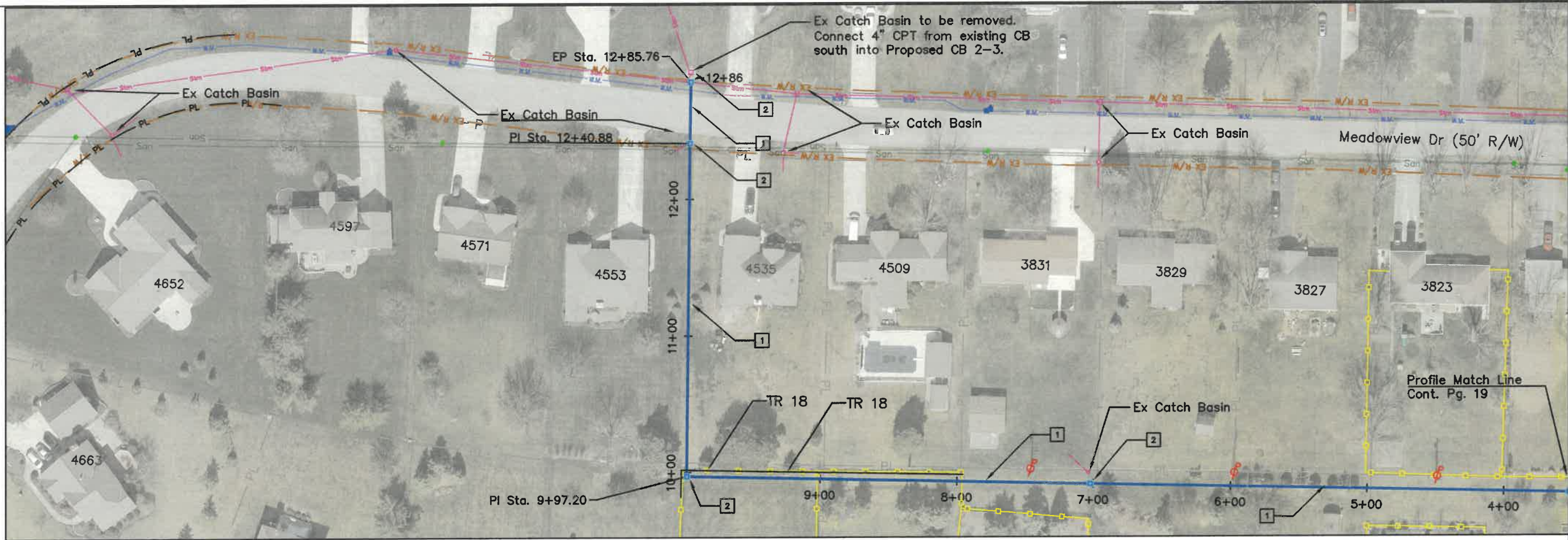
REVIEWER

MAD 11-22-2024

PROJECT ID

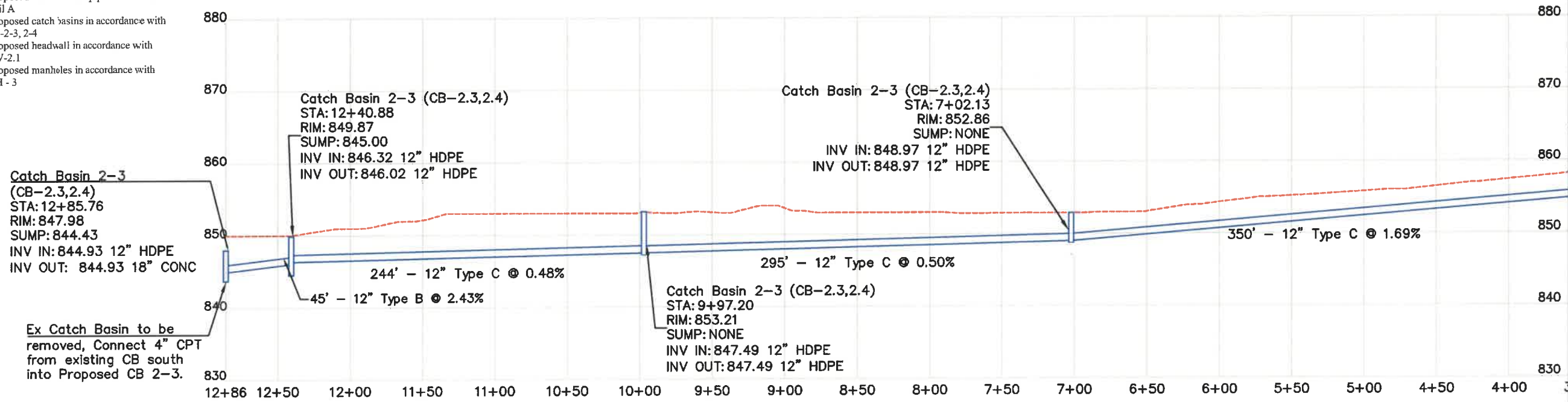
1322

SHEET TOTAL
17 26



Proposed Key Notes

1. Install proposed HDPE storm pipe in accordance with detail A
2. Install proposed catch basins in accordance with detail CB-2-3, 2-4
3. Install proposed headwall in accordance with detail HW-2.1
4. Install proposed manholes in accordance with detail MH - 3



1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY

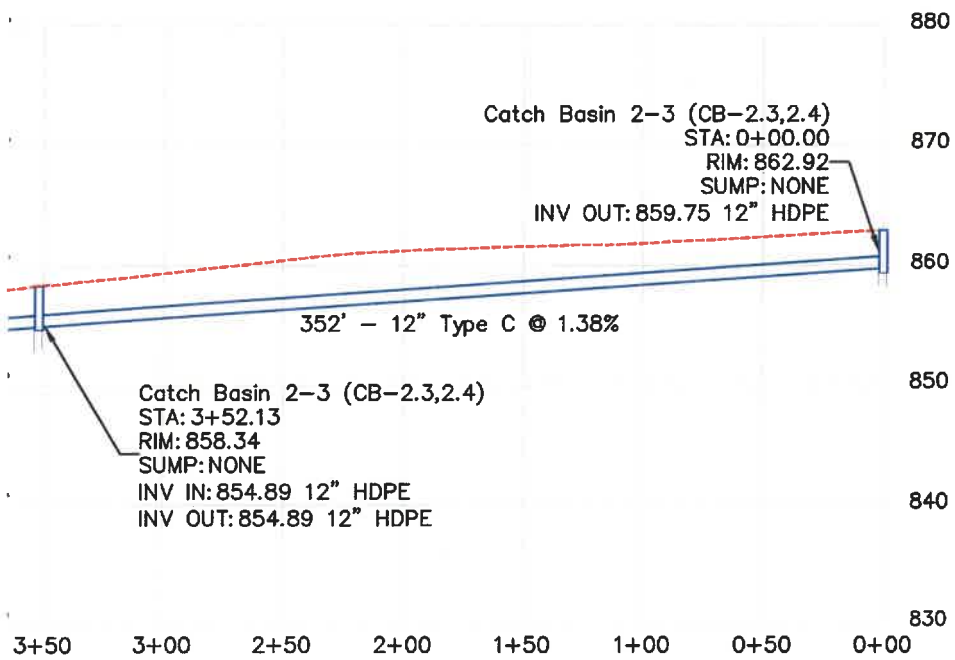
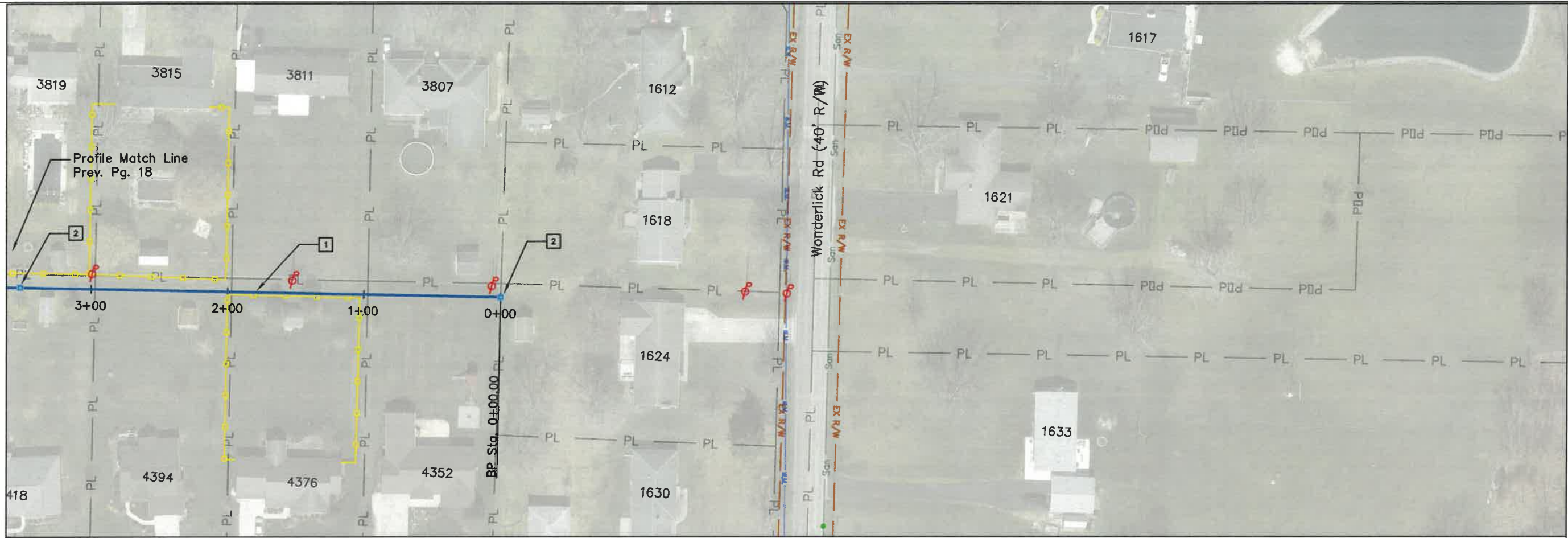
MEADOWLANDS
 PLAN AND PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER
 MDV 5-5-2025
 REVIEWER
 MAD 11-22-2024
 PROJECT ID

1322	
SHEET	TOTAL
18	26



- Proposed Key Notes
1. Install proposed HDPE storm pipe in accordance with detail A
 2. Install proposed catch basins in accordance with detail CB-2-3, 2-4
 3. Install proposed headwall in accordance with detail HW-2.1
 4. Install proposed manholes in accordance with detail MH - 3

**1322 INDIANBROOK-WILDBROOK ESTATES DITCH
 OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
 SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
 TOWNSHIP SECTION 32, ALLEN COUNTY**

MEADOWLANDS
 PLAN AND PROFILE



ALLEN COUNTY ENGINEER
 1501 N SUGAR ST,
 LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

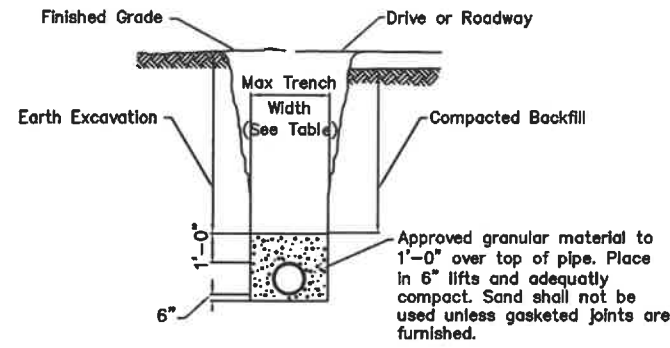
PROJECT ID

1322

SHEET TOTAL

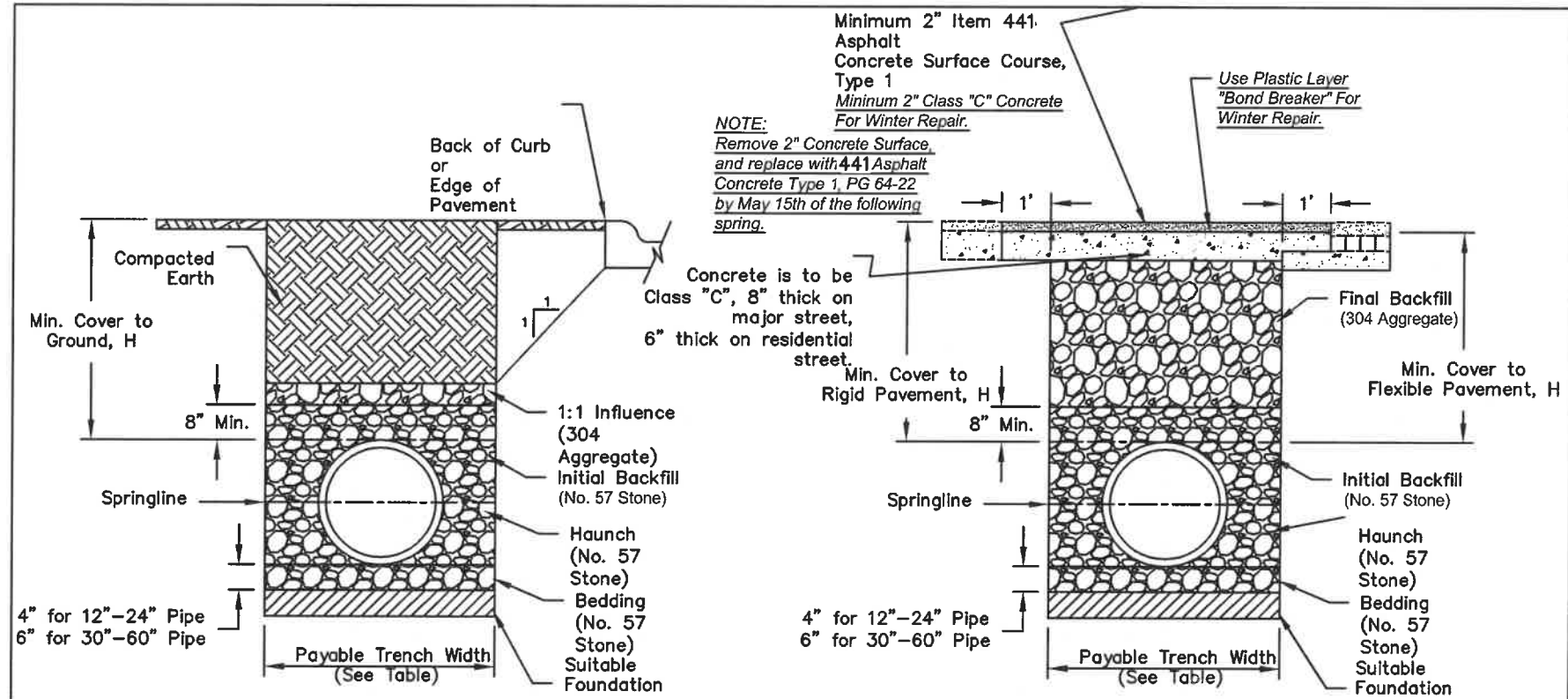
19

26



**STORM/SANITARY SEWER
TYPICAL TRENCH DETAILS**

MAXIMUM TRENCH WIDTHS	
PIPE SIZE	WIDTH
6" - 24"	O.D. + 2'-0"
27" - 30"	O.D. + 2'-6"
36" & OVER	O.D. + 3'-0"



BACKFILL OUTSIDE PAVEMENT

PAVEMENT REPLACEMENT & BACKFILL INSIDE PAVEMENT

NOTES:

- All pipe systems shall be installed in accordance with ASTM D2321, "Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity Flow Applications", latest edition.
- Measures should be taken to prevent migration of native fines into backfill material, when required.
- FOUNDATION:** Where the trench bottom is unstable, the Contractor shall excavate to a depth required by the Engineer and replace with suitable material as specified by the Engineer. As an alternative and at the discretion of the Engineer, the trench bottom may be stabilized using a geotextile material.
- BEDDING:** Suitable material shall be Class I, II or III. The Contractor shall provide documentation for material specification to Engineer, unless otherwise noted by the Engineer. Minimum bedding thickness shall be 4" for 4"-24" pipe; 6" for 30"-60" pipe.
- INITIAL BACKFILL:** Suitable material shall be Class I, II or III in the pipe zone extending not less than 6" above crown of pipe. The Contractor shall provide documentation for material specification to Engineer, unless otherwise noted by the Engineer. Material shall be installed as required in ASTM D2321, latest edition.
- MINIMUM COVER:** Minimum cover, H, in non-traffic applications (grass or landscape areas) is 12" from the top of pipe to ground surface. Additional cover may be required to prevent flotation. For traffic applications, minimum cover, H, is 12" up to 48" diameter pipe and 24" of cover for 54"-60" diameter pipe, measured from top of pipe to bottom of flexible pavement or to top of rigid pavement.
- The Contractor will receive no compensation because of the following:
 - For substitution of granular or any other material for backfill material.
 - For being required to obtain suitable backfill material elsewhere.

**PAVEMENT REPLACEMENT
AND BACKFILL DETAIL**

PAYABLE TRENCH WIDTHS

PIPE DIA.	TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

**1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
TOWNSHIP SECTION 32, ALLEN COUNTY**

**CONSTRUCTION
STANDARDS**



ALLEN COUNTY ENGINEER
1501 N SUGAR ST,
LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

PROJECT ID

1322

SHEET TOTAL

25 26

No Picture Available: LJ's Sta: 43+20, 56+40 & WD Sta: 44+90, 59+60



Woody Debris Sta: 7+80



Woody Debris Sta: 15+60



Log Jam Sta: 18+80



Woody Debris Sta: 33+80



Woody Debris Sta: 49+95



Woody Debris Sta: 99+05



Woody Debris Sta: 100+70



Woody Debris Sta: 101+05



Woody Debris Sta: 105+90



Woody Debris Sta: 107+40



Log Jam Sta: 108+85



Log Jam Sta: 110+15



Log Jam Sta: 126+60



Woody Debris Sta: 128+80



Log Jam Sta: 129+20

1322 INDIANBROOK-WILDBROOK ESTATES DITCH
OPEN DITCH & SUB-SURFACE DRAINAGE IMPROVEMENTS
SHAWNEE TOWNSHIP SECTIONS 4,5,8, AMERICAN
TOWNSHIP SECTION 32, ALLEN COUNTY

LJ & WD
CLASSIFICATION



ALLEN COUNTY ENGINEER
1501 N SUGAR ST,
LIMA, OH 45801

DESIGNER

MDV 5-5-2025

REVIEWER

MAD 11-22-2024

PROJECT ID

1322

SHEET TOTAL

26 26