CITY OF RICHMOND HEIGHTS HARRIS ROAD - HARMS ROAD DRAINAGE IMPROVEMENTS CUYAHOGA COUNTY, OHIO

Sheet List Table					
Sheet Number Sheet Title					
1	COVER SHEET				
2	2 GENERAL NOTES				
3 GENERAL NOTES 2 4 SITE LAYOUT					
				5	RACHEL LANE
6 DETAILS -1					
7 DETAILS - 2					

CITY COUNCIL

VERDANTAS.COM/CT/PROJECTS/2024/241785/DWG/SHEETS/C 241785 - COVER SHEET.DWG - COVER SHEET - 2/17/2025 3:21:48 PM - WILLIAM VASKC

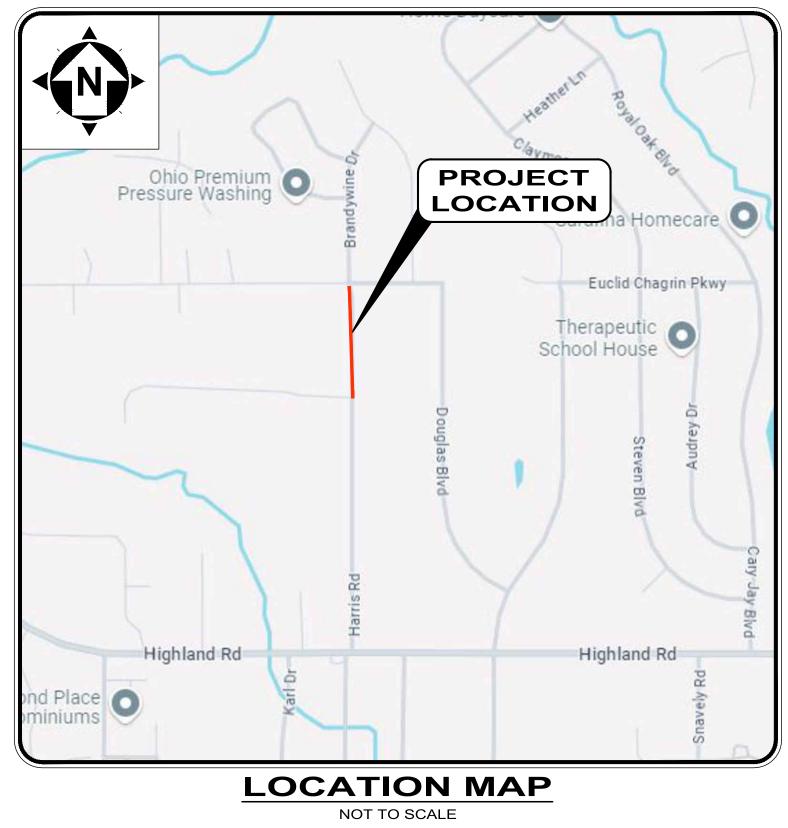
PRESIDENT BOBBY JORDAN COUNCIL-AT-LARGE JUANITA LEWIS DANIEL J. URSU COUNCIL-AT-LARGE TRACEY BLAIR **CLERK OF COUNCIL BAYYINAH BROOKS** SPECIAL ASSISTANT TO THE MAYOR TRACEY JUSTICE WARD I ASU MOOK ROBINSON WARD II WARD III CASSANDRA NELSON WARD IV **BRIAN SILVER**



- UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- 2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



MARCH 2025



verdantas

ENGINEER:

VERDANTAS LLC 1001 LAKESIDE AVE E, SUITE 1005 CLEVELAND, OHIO 44114

(216) 430-8500 PHONE

Utillim Varhun

WILLIAM VASKO

ENGINEER'S PROJECT No. 241785



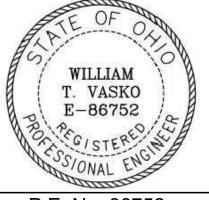


RICHMOND HEIGHTS ENGINEERING DEPT.

03/13/2025

PROJECT SITE:

THE PROJECT IS LOCATED ON HARRIS ROAD BETWEEN PLEASANT TRAIL AND DOUGLAS IN **RICHMOND HEIGHTS, OHIO.**



3/07/2025 DATE

P.E. No. 86752

GENERAL

A PRECONSTRUCTION CONFERENCE SCHEDULED BY THE CITY OF RICHMOND HEIGHTS ENGINEER SHALL BE HELD PRIOR TO ANY WORK STARTING. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE RICHMOND HEIGHTS CITY ENGINEER PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION.

THE IMPROVEMENT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF THE THE CITY OF RICHMOND HEIGHTS, CUYAHOGA COUNTY STANDARDS, AS WELL AS THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, 2023 EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND DRAWINGS, SHALL GOVERN THIS PROJECT. FOR PURPOSES OF THIS PLAN, REFERENCES TO DIRECTOR OR ENGINEER SHALL BE CONSTRUED TO MEAN THE RICHMOND HEIGHTS CITY ENGINEER AND/OR HIS REPRESENTATIVE.

ALL WORK CONTEMPLATED SHALL BE GOVERNED BY THE RULES. REGULATIONS AND SPECIFICATIONS OF THE CITY OF RICHMOND HEIGHTS ENGINEER AND AT ALL TIMES BE SUBJECT TO CUYAHOGA COUNTY DIRECT SUPERVISION AND INSPECTION

WHEN OR WHERE ANY DIRECT OR INDIRECT DAMAGE OR INJURY IS DONE TO PUBLIC OR PRIVATE PROPERTY BY OR ON ACCOUNT OF ANY ACT, ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND OMISSION, NEGLECT OR MISCONDUCT IN THE EXECUTION OF THE WORK, OR IN CONSEQUENCE OF THE NONEXECUTION THEREOF BY THE CONTRACTOR, HE SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE HEALTH ACT. SUCH DAMAGE OR INJURY WAS DONE BY REPAIRING, REBUILDING OR OTHERWISE RESTORING AS MAY BE DIRECTED, OR SHALL MAKE GOOD SUCH DAMAGE OR INJURY IN AN ACCEPTABLE MANNER.

MATERIAL TESTING AND PERMITS

WHEN MAIL BOXES, ROAD OR STREET NAME SIGNS AND SUPPORTS INTERFERE WITH CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL AND EQUIPMENT TESTING. THE CONTRACTOR SHALL BE REERECT THEM IN A TEMPORARY LOCATION DURING CONSTRUCTION IN A MANNER SATISFACTORY TO AND AS DIRECTED BY THE ENGINEER RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THIS PROJECT. THE EXECUTED PROJECT CONTRACT SHALL SERVE TO FULFILL THE CITY OF RICHMOND HEIGHTS' PERMITTING REQUIREMENTS. AFTER COMPLETION OF THE CONSTRUCTION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL ERECT THE MAIL BOXES, ROAD OR STREET NAME SIGNS AND SUPPORTS IN THEIR ORIGINAL LOCATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR CLEARING AND GRUBBING.

CLEARING AND GRUBBING

ALL TREES, STUMPS, ROOTS AND DEBRIS REMOVED FROM THE WORK LIMITS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE AT A LOCATION ACCEPTABLE TO THE ENGINEER.

UTILITIES

THE LOCATION OF ALL EXISTING UTILITY FACILITIES ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF THE FIELD SURVEY IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS AND UTILITY PROTECTION SERVICE LISTED BELOW IN ACCORDANCE WITH SECTION 154.64 OF THE ORC AND AS OUTLINED IN THE PROJECT SPECIFICATIONS.

THE UTILITY OWNERSHIPS ARE AS FOLLOWS:

AT&T JAMES JANIS 13630 LORAIN AVE CLEVELAND OHIO 44111 216-534-7285 Pj8191@att.com

CHARTER ROB ZELKO 7820 DIVISION DR. **MENTOR OHIO 44060** 330-633-9203 Rob.Zelko@charter.com

CLEVELAND WATER FRED ROBERTS 1201 LAKESIDE AVE CLEVELAND OHIO 44114 216-664-2444 ext 75590 fred_roberts@clevelandwater.com ENBRIDGE GAS/DOMINION 320 SPRINGSIDE DR. SUITE 320 AKRON OHIO 44333 330-664-2409 relocation@dominionenergy.com

ILLUMINATING CO JOHN ZASSICK **BROOKLYN SERVICE CENTER** 3601 RIDGE RD. CLEVELAND OHIO 44102 440-546-8706 jmzassick@firstenergycorp.com

CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS CUYAHOGA COUNTY ADMINISTRATIVE HEADQUARTERS 2079 E. 9TH STREET, 5TH FLOOR CLEVELAND OHIO 44115 ATTN: LAURA WEBER (216-443-8205) laweber@cuyahogacounty.gov

CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS CUYAHOGA COUNTY PERMITS AND INSPECTION DEPARTMENT 2501 HARVARD AVENUE **NEWBURGH HEIGHTS OHIO 44105** ATTN: JUSTIN PATRONITE (216-443-8209) jpatronite@cuyahogacounty.gov

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN 48 HOURS, EXCLUDING SATURDAY, SUNDAYS AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, 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 APPROXIMATELY TWO (2) DAYS AHEAD OF THE PLANNED CONSTRUCTION.

SERVICE CONNECTIONS

- 1. ALL WATER SERVICE CONNECTIONS SHOWN ON THE PLAN WERE DERIVED FROM RECORDS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL CONNECTIONS. ALL ACTIVE CONNECTIONS ENCOUNTERED SHALL BE RECONNECTED TO EXISTING FACILITIES OR CONNECTED TO THE NEW FACILITIES, EVEN IF NOT SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL EXPECT AT LEAST ONE SERVICE CONNECTION FOR ADDRESS NUMBER ON BOTH SIDES OF THE STREET FOR THE ENTIRE PROJECT LENGTH.
- ALL UTILITY LINES CROSSING THE NEW TRENCH SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS; OR REMOVED, REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION. THEY SHALL BE REPLACED IN-KIND.
- THE CONTRACTOR SHALL BE REQUIRED TO BYPASS AND MAINTAIN THE FLOW TO/FROM ALL HOUSE UTILITY CONNECTIONS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL SUPPLY ALL PIPE AND ADAPTERS TO CONNECT TO EXISTING PIPING. THE ADAPTERS MUST BE SUBMITTED TO AND APPROVED BY AQUA WATER PRIOR TO CONSTRUCTION.
- THE COST OF UTILITY RELOCATION, REPLACEMENT, AND/OR SUPPORT SHALL BE INCLUDED IN THE COST PER LINEAL FOOT OF PROPOSED STORM SEWER.

CONTRACTORS RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES

AT POINTS WHERE THE CONTRACTOR'S OPERATIONS ARE ADJACENT TO PROPERTIES OF TELEPHONE, CABLE, AND POWER COMPANIES, OR ARE ADJACENT TO OTHER PROPERTY, DAMAGE TO WHICH MIGHT RESULT IN CONSIDERABLE EXPENSE, LOSS, OR INCONVENIENCE, WORK SHALL NOT BE COMMENCED UNTIL ALL ARRANGEMENTS NECESSARY FOR THE PROTECTION THEREOF HAVE BEEN MADE.

THE CONTRACTOR SHALL COOPERATE WITH THE OWNERS OF ANY UNDERGROUND OR OVERHEAD UTILITY LINES IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS MAY PROGRESS IN A REASONABLE MANNER, THAT DUPLICATION OF REARRANGEMENT WORK MAY BE REDUCED TO A MINIMUM, AND THAT SERVICES RENDERED BY THOSE PARTIES WILL NOT BE UNNECESSARILY INTERRUPTED.

IN THE EVENT OF INTERRUPTION TO UNDERGROUND OR OVERHEAD UTILITY SERVICES AS A RESULT OF ACCIDENTAL BREAKAGE OR AS A PROTECTIVE BARRIERS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND FINAL ACCEPTANCE HAS BEEN ISSUED BY THE CITY RESULT OF BEING EXPOSED OR UNSUPPORTED, THE CONTRACTOR SHALL IMMEDIATELY ALERT THE OCCUPANTS OF NEARBY PREMISES AS TO OF RICHMOND HEIGHTS. ANY EMERGENCY AND/OR INTERRUPTION OF SERVICE THAT THE CONTRACTOR MAY CREATE OR DISCOVER AT OR NEAR SUCH PREMISES. THE CONTRACTOR SHALL THEN NOTIFY THE ENGINEER AND THE OWNER OR OPERATOR OF THE UTILITY FACILITY OF THE DISRUPTION AND SHALL AREAS WITHIN THE PROTECTIVE BARRIERS SHALL BE FREE OF ALL BUILDING MATERIALS, DIRT, CHEMICALS (INCLUDING GAS, OIL AND COOPERATE WITH SAID UTILITY OWNER OR OPERATOR IN THE RESTORATION OF SERVICE. IF WATER SERVICE IS INTERRUPTED, REPAIR WORK CONTAMINATED WATER), CONSTRUCTION DEBRIS, VEHICLES, AND DEVELOPMENT ACTIVITIES. SHALL BE CONTINUOUS UNTIL THE SERVICE IS RESTORED. NO WORK SHALL BE UNDERTAKEN AROUND FIRE HYDRANTS UNTIL PROVISIONS FOR CONTINUED SERVICE HAVE BEEN APPROVED BY THE LOCAL FIRE AUTHORITY.

REVISION

Statistics A		NO	
ATE OF OHO			
WILLIAM T. VASKO E-86752	verdantas		
PROISTERED WE			
TONAL CONSTR			

H:\2024\241785\DWG\SHEETS\C_241785- GENERAL NOTES.DWG - GN-1 - 3/18/2025 2:47:19 PM - JOSH ROHRBACH

PROTECTION AND RESTORATION OF PROPERTY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE OR INJURY TO PROPERTY AND/OR PERSONS DURING THE PROSECUTION OF THE WORK, RESULTING FROM ANY ACT, OMISSION, NEGLECT OR MISCONDUCT IN HIS MANNER OR METHOD OF EXECUTING THE WORK, OR AT ANY TIME DUE TO DEFECTIVE WORK OR MATERIALS, AND SAID RESPONSIBILITY WILL NOT BE RELEASED UNTIL THE PROJECT SHALL HAVE BEEN COMPLETED AND ACCEPTED.

DUST NUISANCE ORIGINATING FROM ANY OF THE CONTRACTOR'S OPERATIONS EITHER INSIDE OR OUTSIDE THE RIGHT-OF-WAY SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL ORDINANCES AND REGULATIONS AT THE SOLE EXPENSE OF THE CONTRACTOR.

LANDSCAPING AND DRIVEWAY ITEMS

WHEN THE CONSTRUCTION OPERATIONS ARE IN CLOSE PROXIMITY TO LANDSCAPING FEATURES (TIMBERS, ROCKS, BOULDERS, ETC.) DRIVEWAY TIMBERS, DRIVEWAY CURBING, ETC. THE CONTRACTOR SHALL SAVE, REMOVE AND PLACE THESE ITEMS OUTSIDE THE WORK LIMITS AT A LOCATION ACCEPTABLE TO THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE STORM SEWER.

USE OF PRIVATE PROPERTY

THE CONTRACTOR CAN USE PRIVATE PROPERTY FOR THE STORAGE OF EQUIPMENT AND MATERIALS ONLY WITH A WRITTEN AGREEMENT WITH THE PROPERTY OWNER. THE CONTRACTOR SHALL PROVIDE THIS AGREEMENT TO THE ENGINEER PRIOR TO ANY USE OF PRIVATE PROPERTY.

REMOVAL ITEMS

ALL ITEMS NOTED ON THE PLANS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

SUBSURFACE INVESTIGATIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL.

CONNECTION TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO OR TO CROSS EITHER OVER OR UNDER AN EXISTING PIPE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE, BOTH AS TO LINE AND GRADE, AND ADJUST LINE AND/OR GRADE AS NECESSARY BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

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

EXISTING NATURAL GAS FACILITIES

THE DOMINION EAST OHIO NATURAL GAS COMPANY SHALL BE RESPONSIBLE FOR ALL RELOCATIONS OF THEIR GAS MAIN FACILITIES AS REQUIRED, INCLUDING HOUSE CONNECTIONS AND VALVE BOX RELOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VALVE BOX AND ALL OTHER GAS MAIN APPURTENANCE ADJUSTMENTS TO GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH DOMINION EAST OHIO SO THAT THE COMPLETION OF HIS WORK IS NOT DELAYED BY THE DOMINION EAST OHIO WORK. THE CONTRACTOR SHALL NOTIFY DOMINION EAST OHIO AT LEAST 48 HOURS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THEIR SYSTEM.

DRIVEWAY AND ROADWAY PAVEMENT INSTALLATION

ALL PAVEMENT INSTALLATION SHOULD BE CONDUCTED UNDER SUITABLE WEATHER CONDITIONS. THE ENGINEER SHALL BE NOTIFIED IN ADVANCE OF ANY PROPOSED PAVEMENT INSTALLATION TO DETERMINE THE SUITABILITY OF WEATHER CONDITIONS FOR PAVEMENT INSTALLATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL ROADWAYS AND DRIVES PRIOR TO FINAL INSTALLATION. THE COST OF ANY TEMPORARY SURFACE MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE ITEM OF WORK.

GARBAGE COLLECTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE TRANSFER OF ALL GARBAGE, GARBAGE CANS, AND RECYCLE BINS FROM DRIVEWAYS WITHIN THE CONSTRUCTION ZONE TO THE OPPOSITE SIDE OF THE ROADWAY. ONCE THE GARBAGE AND RECYCLABLE MATERIALS HAVE BEEN COLLECTED, ALL GARBAGE CANS AND RECYCLE BINS SHALL BE RETURNED TO THE APPROPRIATE DRIVEWAYS AND OUTSIDE OF THE CONSTRUCTION LIMITS, OR AS DIRECTED BY THE ENGINEER. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614. MAINTAINING TRAFFIC.

PROTECTION OF TREES

TREE PROTECTION MEASURES SHALL BE INSTALLED AS SPECIFIED PRIOR TO THE START OF CONSTRUCTION.

SPECIAL CARE SHALL BE TAKEN TO AVOID DAMAGE TO TREES AND THEIR ROOT SYSTEMS WHICH ARE NOT CALLED FOR REMOVAL. THE OPERATION OF ALL EQUIPMENT SHALL BE CONDUCTED IN A MANNER WHICH WILL NOT INJURE TREES, TRUNKS, BRANCHES OR THEIR ROOTS UNLESS SUCH TREES ARE DESIGNATED FOR REMOVAL. THE STORAGE OF MATERIALS, AND THE DEPOSITION OF EXCAVATION SHALL BE PROHIBITED WITHIN THE TREE CANOPY OF ANY TREE TO BE SAVED.

SHOULD THE CONTRACTOR'S OPERATIONS DAMAGE ANY TREE TO SUCH AN EXTENT THAT IT. IN THE OPINION OF THE CITY OF RICHMOND HEIGHTS. WILL NOT LIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REMOVING THE TREE AND ALL PAYMENTS TO THE PROPERTY OWNER FOR THE VALUE OF THE REMOVED TREE, AS DETERMINED BY AN ARBORIST MUTUALLY AGREED UPON BY THE CITY OF RICHMOND HEIGHTS AND THE CONTRACTOR.

PLACEMENT OF TREE PROTECTIVE BARRIERS

PRIOR TO CONSTRUCTION, TREE PROTECTIVE BARRIERS SHALL BE PLACED AROUND ALL TREES TO BE PRESERVED AND ANY OTHER VEGETATION LOCATED NEAR CONSTRUCTION ACTIVITY WHICH IS TO BE SAVED. THESE BARRIERS WILL BE LOCATED JUST OUTSIDE OF THE TREE'S CANOPY.

NO DISTURBANCE SHALL OCCUR WITHIN THE PROTECTIVE AREA OF A TREE DESIGNATED TO BE PRESERVED.

THE COST TO PROTECT TREES AND PROVIDE BARRIERS SHALL BE INCIDENTAL TO THE TOTAL PROJECT COST

DATE	CITY OF RICHMOND HEIGHTS	ISSUED FOR:	BID
		ISSUE DATE:	MARCH 2025
	HARRIS ROAD - HARMS ROAD	SCALE:	AS SHOWN
	DRAINAGE IMPROVEMENTS	DESIGNED BY:	WTV
		DRAWN BY:	JCR
	CUYAHOGA COUNTY, OHIO	CHECKED BY:	JRH

SPECIFICATIONS OF TREE PROTECTIVE BARRIERS

THE WORKING DAY.

VIDEOTAPING

GRADING

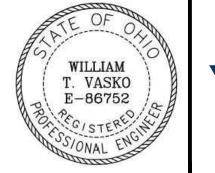
TREE PROTECTIVE BARRIERS WILL BE FLORESCENT POLYETHYLENE LAMINAR SAFETY FENCING, MINIMUM FOUR (4) FEET IN HEIGHT OR A SECURELY INSTALLED POST AND RAIL WOODEN FENCE, MINIMUM FOUR (4) FEET IN HEIGHT WITH A MINIMUM TWO (2) INCH X FOUR (4) INCH RAIL. THE FENCE SHALL BE MADE HIGHLY VISIBLE WITH A FLORESCENT ORANGE OR YELLOW PAINT. SUCH BARRIERS SHALL REMAIN INTACT THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS, AND IF DISTURBED MUST BE RESTORED PRIOR TO THE END OF

THE CONTRACTOR SHALL PROVIDE ABOVE GROUND VIDEOTAPING OF ALL WORK AREAS PRIOR TO THE BEGINNING OF THE WORK. THE CONTRACTOR SHALL NOT START WORK UNTIL SUCH TIME AS THE ENGINEER HAS BEEN PROVIDED A COPY OF THE COMPLETE VIDEO.

DRIVEWAY ELEVATIONS TO MATCH EXISTING. CONTRACTOR TO GRADE GRADE DOWN TO STRUCTURE/SWALE ELEVATION.

GENERAL NOTES	PROJECT NO. 241785 DISCIPLINE CIVIL		
	SHEET NAME GN-1		
	SHEET	OF	
	2	7	

	STANDARD SPECIFICATIONS - SEWER MAINS AND APPURTENANCES
	DEVELOPER/ENGINEER PROCEDURES
	All Developer/Engineering Procedures as established by Cuyahoga County Department of Public Works (CCDPW) sh Specifications, Municipality standards, Uniform Standards For Sewerage Improvements and Uniform Standards Sewer D Division Rules and Regulations, and Contractor Permit Information. In the case of conflicts between written specificat shall apply. One (1) electronic copy in pdf format, and six (6) paper set of detail drawings on 22" x 34" sheets sign (including plan and profile, applicable sewer details, proposed and existing topography and all buried utilities) and spe submitted for review and approval to: Cuyahoga County Department of Public Works, c/o Permit Department, 2501 Harv the Sanitary Engineer's approval of the detail drawings and specifications for construction, the developer/engineer will f approval of plans to begin construction or plans must be resubmitted to the CCDPW for approval. The cost to record any projects for sewer lines, water lines, or pump stations to be dedicated to Cuyahoga County or a given community for ow the cost of the Developer/Engineer.
	COLLECTION SYSTEM IMPROVEMENTS The CCDPW and/or Municipality shall determine whether or not the County sewer collection and tributary system has a proceed. Gravity sewers shall consist of a minimum size of eight (8) inch diameter for mainline sewers and six (6) inch di 1% (for laterals) and full flow minimum velocities of two (2) fps. The CCDPW shall require sewers and pump stations to ultimate development of the entire tributary service area. Gravity sewers and service laterals shall be required in pla CCDPW determines it is in the public interest to do so. The requirements herein shall generally supersede any other require be ultimately determined by CCDPW.
	Generally, design shall be in accordance with Ohio E.P.A. regulations, the latest version of "Ten State Standards" and sh Sewerage Improvements, Uniform Standards Sewer Details, and ODOT Specifications.
	The Developer and/or Engineer shall not allow other new utilities to be installed within six (6) feet horizontally of an installed the sewer except at crossings. Should this occur, the Developer will be responsible for maintaining the sanitary sewer mains until the other utility lines are relocated six (6) feet away from the sanitary sewer. Sewer lines shall be located was approved easement. Water mains shall be installed with at least a ten (10) feet horizontal and eighteen (18) inch ver Uniform Standards For Sewerage Improvements. The County also requires eighteen (18) inch vertical separation from an to-out.
	COLLECTION MATERIAL MINIMUM REQUIRED SPECIFICATIONS AND INSTALLATION STANDARDS LINE CONSTRUCTION STAKING Gravity sanitary sewers and force mains shall be staked prior to the installation of new pipe. A State of Ohio Registered mainline staking and offsets. Staking shall be for both line and grade no greater spacing than every fifty (50) feet plus at gravity sewers shall be installed with the use of a laser to insure that they are installed properly to grade.
	MAIN LINE AND SERVICE LATERAL SEWER PIPE All sewer pipe and laterals shall be buried below the frost line consisting of a minimum of at least three (3) feet of cover ow Designer shall consider both the existing grade and any anticipated future grade. All sewers (storm and sanitary) crossing (3000 PSI) encasement. Depths for sewers mains, laterals and force mains with less than three (3) feet of cover shall be construction phase; additional requirements for such situations may be mandated by the CCDPW.
	Flexible PVC sewer pipe buried with less than thirteen (13) feet of cover shall be solid wall pipe; PVC compounds shall m six (6) inch through fifteen (15) inch diameter and ASTM F-679 (eighteen (18) inch through thirty (30) inch diameter p conforming to ASTM D-3212. Fittings shall conform to ASTM D-3034. Gaskets shall conform to ASTM F-477. Pipe bedo Sewerage Improvements.
	Flexible PVC sewer pipe buried with more than thirteen (13) feet of cover shall be solid wall pipe; PVC compounds sha shall meet minimum pipe stiffness rating of PS-115 and shall consist of SDR 26 or thicker walled pipe as needed, as re- buried depth, conform to ASTM D-3034 through fifteen (15) inch diameter and ASTM F-679 for larger sizes. Fittings shall conform to the Uniform Standards For Sewerage Improvements.
	HDPE sewer pipe shall meet the requirements: N-12 meeting AASHTO M294 with water-tight joint meeting ASTM D2 D2321, or HP Pipe meeting ASTM F2764 with water-tight joint meeting ASTM D3212, gasket meeting ASTM F477 and ASTM F2764 (Dual wall 12"-24" and Triple wall 30"-60") with water-tight joint meeting ASTM D3212, gasket meeting ASTM
	Alternate pipe different than those specified above for gravity sewer installations may be used, but piping material sha Sewerage Improvements and Uniform Standards Sewer Details.
	All sewers and laterals in the near vicinity of borings, drilling, and/or jacking of any piping shall also be CCTV inspected damage has been done to the piping. A copy of the video(s) and accompanying report(s) shall be submitted to the CCDPM
	All existing sewers, existing sewer laterals, and/or other existing facilities to be re-used shall be located by the contra- construction at the contractor's expense. The CCTV inspection shall be submitted to the CCDPW and approved befor incorporated into the project.
	Service lateral pipe shall be six (6) inch diameter consisting of PVC (solid wall pipe) and shall conform to the Uniform design necessitates a larger service lateral pipe for larger usage customers, the increased size shall be subject to CCDI installed without a Permit from the County and without calling at least 24 hours in advance for inspection at (216) 443-82 be performed during normal County work hours. Service laterals shall only serve gravity drains in the customer's structur such as floor drains, toilet, sink, showers, slop sinks, clothes washer drains, etc. Service laterals which cannot be gravity Service laterals for residential customers shall have a test-tee installed within three (3) feet of the right-of-way line. Service laterals for residential customers shall have a test-tee installed within three (3) feet of the right-of-way line. Service laterals which cannot be gravity Service laterals for residential customers shall have a test-tee installed within three (3) feet of the right-of-way line. Service laterals which cannot be gravity Service laterals for residential customers shall have a test-tee installed within three (3) feet of the right-of-way line. Service laterals shall conformed during (90) degree bends (Horizontal or Vertical) are not acceptable. Test Tees are to be installed degree. One Test Tee should be installed for every one hundred (100) feet of pipe installed and spaced and located to shall be straight cleanouts or Test Tees, no swiping cleanouts. Clean water connections of the sanitary server are proh drains, yard drains, driveway drains, roof water drains, exterior footer or foundation by gravity or with interior sump pur service lateral will not occur for more than thirty (30) days, the Developer's contractor shall install a watertight cap and I ends can be located or unless approved by the Engineer. When a building(s) is abandoned, existing service laterals adjacent to the sewer main. All new lateral riser shall conform to Uniform Standards Detail No. 10 (with two 45 deg bends
	In all communities where the CCDPW issues permits, the installation of Bentonite Clay Dams (per the Uniform Standard sanitary and storm laterals may be required by the CCDPW. Where sewers and laterals cross creeks and/or ditches, two one on either side of the crossing. In addition, in Olmsted Township, the installation of Bentonite Clay Dams s laterals; plus, where sewer laterals cross creeks and/or ditches, a minimum of two Dams shall be required on crossing.
	Connections of service laterals and/or sewers to existing and/or proposed sewer pipe mains shall be as follows:
	a. <u>To PVC Sewer Mains</u> - cut out a section of the existing sewer main, install a manufactured PVC wye (with six (6) inch no-hub couplings, or approved equal, pipe adaptors for connections on sewer mains 18-inch and smaller. Where sev maybe used, manufactured by Inserta Fittings Company, or approved equal. PVC to PVC piping connections should be coupling or unless approved by the Engineer. Pipe bedding and installation shall conform to the Uniform Standards or Se
_	REVISIONS:



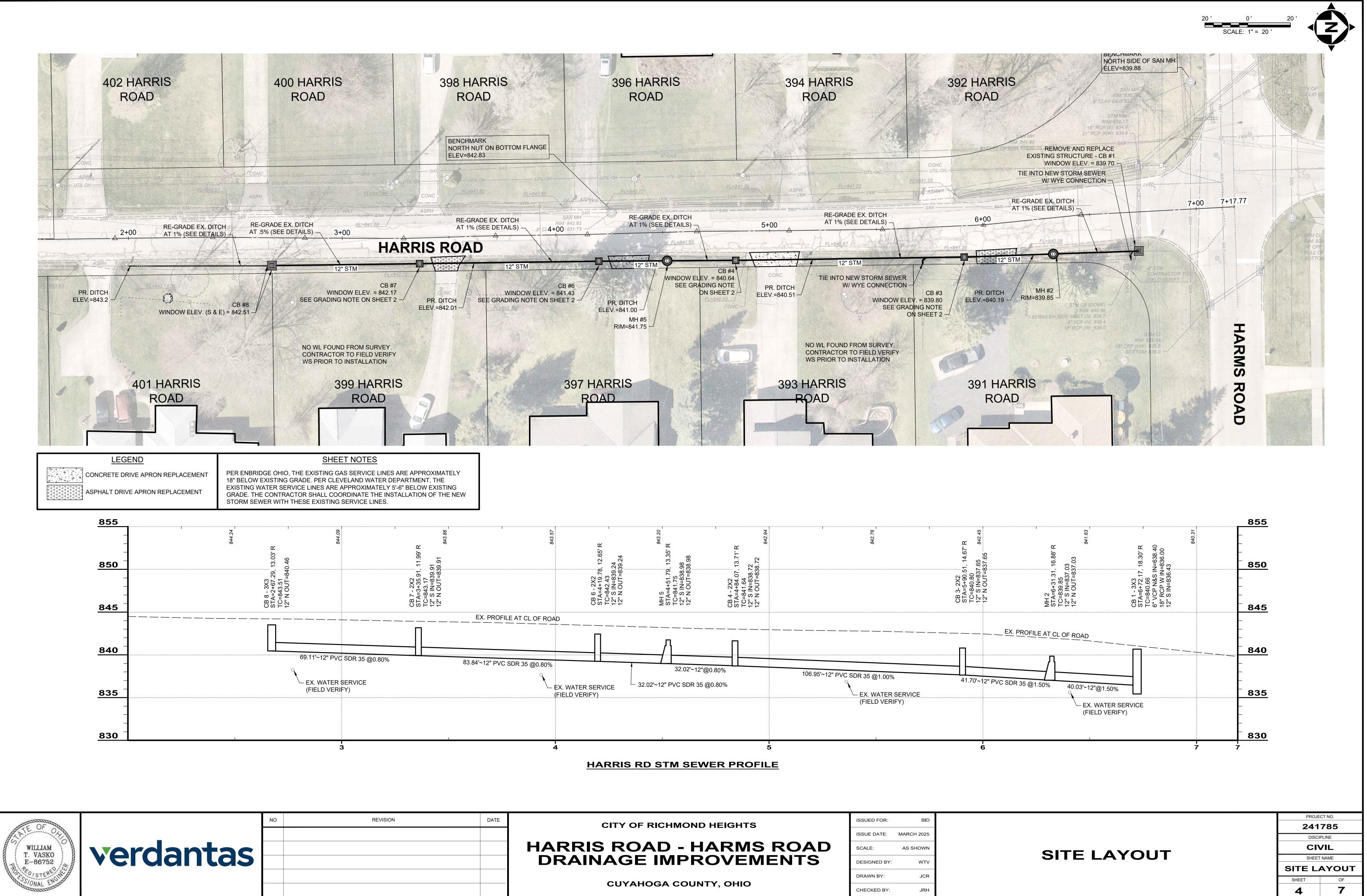
H:\2024\241785\DWG\SHEETS\C_241785- GENERAL NOTES.DWG - GN-2 - 3/18/2025 2:47:19 PM - JOSH ROHRBACH



REVISION

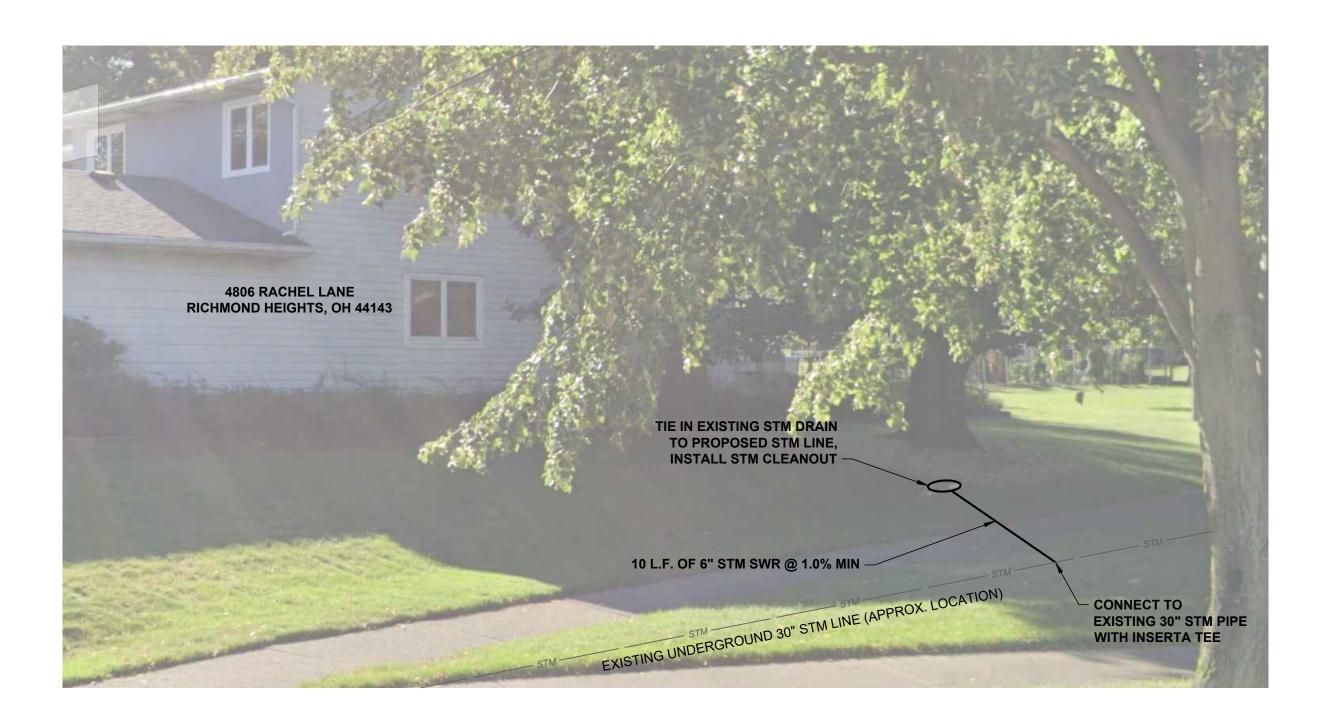
NO

SCALE NO SCALE	DATE: JUNE	AL COUNTY SEWER NOTES 2022 SOCIATION OF NE OHIO	SHEET NO. 4	PROJECT NO.
SCALE				
[
57, 6, 67, 68, 7, 78, or 8 and as per Uniform fill using Low Strength Mortar (LSM) when with shall be compacted to 95% Proctor in maximu S Ill be watertight structures made of precast co Sewerage Improvements and Details. Chim to the Uniform Standards For Sewerage Im e prefabricated. Flexible connections shall be shall be vacuum tested in accordance with the	r and cover to a height of 12 inches over the top of a Standard Sewer Details. Slag or recycled concrete is thin five (5) feet of pavement or within city right-of-way o um 12-inch lifts. oncrete sections with full depth channels and shall meet aney seals shall be installed on all new sanitary manho inprovements and Details. Openings in ALL Structure e provided for sanitary, storm and combined sewers. Pr the procedures of ASTM C-1244. No bricks shall be use and witnessed by a representative (Inspector) of the CCD	not permitted. Backfill above the r unless indicated differently in the the requirements of ASTM C-478 es. All manhole/structure frames s Section for ALL pipes (Sanitary, emium seals shall meet ASTM C-		
h and larger shall be CCTV inspected by a C	CDPW. CDPW approved company regularly engaged in this typ sted in the specifications. A copy of the video(s) and acc			
require weir testing per the Uniform Standards arger (Sanitary, Combined & Storm) shall mee . The mandrel shall be as specified in the Unifi	is For Sewerage Improvements. et maximum five (5) percent deflection (Mandrel) testing form Standards. When the use of the specified mandrel ndrel testing. All testing above shall be performed by a c	at 60-days from the time of is not possible, laser profiling per		
EMENTS & TESTING endations for unloading, installation, trench p with these specifications, the latest version of flict, the more restrictive requirements shall go approved by the CCDPW. e eight (8) inch to twenty four (24) inch shall r	preparation, assembly, backfill, pressure or infiltration Ten State Standards, Ohio EPA, or the Uniform Stand	est, deflection tests, etc. shall be ards For Sewerage Improvements se of recycled concrete or slag for acrete pipe shall be tested per		
all be pressure tested per manufacturer's reco be used at a minimum at all joint fittings and at onsist of Meg-a-Lugs, Model Ebba Series 100 sed at all change of direction fittings in addition sidential force mains shall have minimum cover sewers/force mains shall be flexible HDPE SE main shall have an air release valve installed in wires shall be buried with all PVC and HPDE p	ommendations. t the next pipe joint from each fitting in all directions. 00 or equal as approved by CCDPW. In to the restrained joints, and shall be 4,000 psi concret. Ver of six (6) feet. DR 11, jointless. The sewer shall be installed with a min n a standard manhole conforming to the Uniform Standar pressure sewer pipes located at the 10:00 and 2:00 pos	imum of six (6) feet of cover. rds Sewer Details. itions and terminated in valve		
WA C900, DR 18 (solid wall pipe with PVC co ming to the requirements of ASTM D-3139. shall have a minimum wall thickness of Class 5	ompounds meeting the requirements of SDR-26 ASTM I 52, with push-on type joints, cement lined (AWWA C104), and shall meet the		
vice laterals from the public sewer main to the oleted. Idings. Interceptors are to be sized as require r shall be responsible for maintenance by clea he requirements of CCDPW standards. The in	e building foundation shall not be installed until the build ervice businesses and oil/grit interceptors on all services red by CCDPW Rules and Regulations with a minimum eaning/pumping their interceptor on a regular schedule. inlet and outlet pipes shall be sized from the building fou	for customers with floor drains in effective grease interceptor size of Interceptors shall be constructed indation to the grease trap shall be		
th water-tight Strongback Fernco type, or appr -tees maybe used, manufactured by Inserta R verage Improvements.	proved equal, pipe adaptors on sewer mains 18-inch and Fittings Company, or approved equal. Pipe bedding a	smaller. Where sewer mains are ind installation shall conform to the		
nco type, or approved equal, pipe adaptors. In boot with stainless steel band(s), Model NPC	Where sewer mains are larger then 10-inch, core pipe PC Kor-N-Tee (as manufactured by NPC) or approved ex	and install a manufactured flexible ual. Pipe bedding and installation		
	nco type, or approved equal, pipe adaptors. In boot with stainless steel band(s), Model NF Imm Standards For Sewerage Improvement is water-tight Strongback Fernco type, or app- tees maybe used, manufactured by Inserta- ierage Improvements. Ito manholes shall use a KOR-N-SEAL or app- vice laterals from the public sewer main to the pleted. Is shall be installed in services for all food sec- lidings. Interceptors are to be sized as requirer is shall be responsible for maintenance by cle- he requirements of CCDPW standards. The li- num with a six (6) inch minimum diameter outling ase interceptor. CE MAIN PIPE pipe shall be designed for a minimum pressu WA C900, DR 18 (solid wall pipe with PVC or iming to the requirements of ASTM D-3139, shall have a minimum wall thickness of Class 51. DR 11 (ASTM F714 and D3035). Pipe joints in strained and as strong as the pipe in both ter- al be pressure tested per manufacturer's rec- ie used at a minimum at all joint fittings and a onsist of Meg-a-Lugs, Model Ebba Series 10 is data all change of direction fittings in addition- sidential force mains shall have minimum cov- severs/force mains shall have minimum cov- severs/force mains shall have minimum cov- severs/force mains shall be flexible HDPE S- hain shall have an air release valve installed i wires shall be buried with all PVC and HPDE wide tape noting "SEWER FORCE MAIN BU MENTS & TESTING endations for unloading, installation, trench- with these specifications, the latest version of	neo type, or approved equal, pipe adaptors. Where sewer mains are larger then 10-inch, core pipe i r bod with stainless steel band(s), Model NPC Kor-N-Tee (as manufactured by NPC) or approved equal rever <u>Mains</u> - remove one (1) section of existing pipe (joint-to-joint), install a manufactured watertij th watertight Strongback Fernco type, or approved equal, pipe adaptors on sewer mains 18-inch and tease maybe used, manufactured by Inserta Fittings Company, or approved equal. Pipe bedding ar terage Improvements. to manholes shall use a KOR-N-SEAL or approved equal (connections are only allowed in special cas rice laterals from the public sewer main to the building foundation shall not be installed until the building letted. s shall be installed in services for all food service businesses and oil/grit interceptors on all services rice laterals from the public sewer main to the building foundation shall not be installed until the building letted. s shall be installed in services for all food service businesses and oil/grit interceptors on all services rice laterals from the public sewer main to the building foundation shall not be installed until the building fou unwith a six (6) inch minimum diameter outlet to three (3) feet outside the tank. There shall be clear ase interceptor. 2E MAIN PIPE pipe shall be designed for a minimum pressure of 150 p.s.i. and shall consist of: WAA C300, DR 18 (solid wall pipe with PVC compounds meeting the requirements of SDR-26 ASTM D ming to the requirements of ASTM D-3139. shall have a minimum wall thickness of Class 52, with push-on type joints, cement lined (AWWA C104 51. JR 11 (ASTM F714 and D3035). Pipe joints shall be joined by use of the heat fusion technique of but istrained and as strong as the pipe in both tension and hydrostatic loading. all be pressure tested per manufacturer's recommendations. onsist of Meg-a-Lugs, Model Ebba Series 100 or equal as approved by CCDPW. used at all change of direction fittings in addition to the restrained joi	to manholes shall use a KOR-N-SEAL or approved equal (connections are only allowed in special cases and only one (1) inside drop ince laterals from the public sever main to the building foundation shall not be installed until the building foundation and basement idet. s shall be installed in services for all food service businesses and oli/grit interceptors on all services for customers with floor drains in idings. Interceptors are to be sized as required by CCDPW Rules and Regulations with a minimum effective grease interceptor size of s shall be responsible for maintenance by cleaning/pumping their interceptor on a regular schedule. Interceptors shall be constructed he requirements of CCDPW standards. The inlet and outlet pipes shall be sized from the building foundation to the grease trap shall be um with a six (6) inch minimum diameter outlet to three (3) feet outside the tank. There shall be cleanouts installed in the inlet pipe and see interceptor. 2E MAIN PIPE Jobe shall be designed for a minimum pressure of 150 p.s.i. and shall consist of: WA C300, DR 16 (solid wall pipe with PVC compounds meeting the requirements of SDR-26 ASTM D-2241), pipe shall include rubber ming to the requirements of ASTM D-3139. Nall have a minimum wall thickness of Class 52, with push-on type joints, cement lined (AWWA C104), and shall meet the 51. DR 11 (ASTM F714 and D3035). Pipe joints shall be joined by use of the heat fusion technique of but fusion resulting in a monolithic strained and as strong as the pipe in both tension and hydrostatic loading. all be pressure tested per manufacturer's recommendations. onsist of Meg-a-Lugs, Model Ebba Series 100 or equal as approved by CCDPW. ead at all change of direction fittings in addition to the restrained joints, and shall be 4,000 psi concrete. sidential force mains shall have minimum over of six (6) feet. severs/force mains shall have minimum over of six (6) feet. severs/force mains shall a the fitting bin Series shall be installed with	ne bype, or approved equal, pipe adaptors. Where sever mains are importient (binch, core pipe and installar a manufacture field binch of the dwith station state bands), Model NPC Kox-Hruce is manufactured by NPC or approved equal. Pipe bands and installation shall be been pipe to approve equal, pipe adaptors on sever mains 1 thruch and and and in. Where sever mains are target truther thruce is manufactured waterlight PVC wey (with six (6) inch or in the waterlight Strongback Frenco by a paptored equal, pipe adaptors on sever mains 1 thruch and and and in. Where sever mains are target bruce duration in the trade light Strongback Frenco by and and pipe back point on the installed in mature turned waterlight Strongback Frenco by a paptored equal (connections are only allowed) in special cases and only one (1) install de conjunction to the trade light formation in the installed in the building foundation shall not be installed until the building foundation and basement betwee mains to the building foundation shall not be installed until the building foundation and basement betwee the second as required by CCDFW Rules and Regulations with a minimum effective graves that be second for an intervee of CCDFW Rules and Regulations with a minimum effective graves that be second for an intervee shall be sized for minimum effective graves that be sized for the building foundation in base interceptor size of CCDFW Rules and Regulations with a second size of the second sis and the second size of the second size of the second size of the

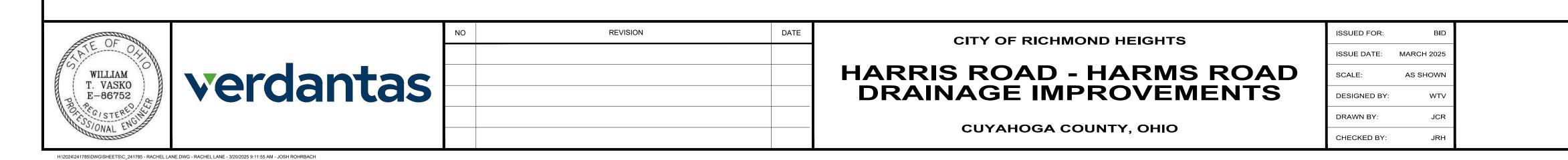


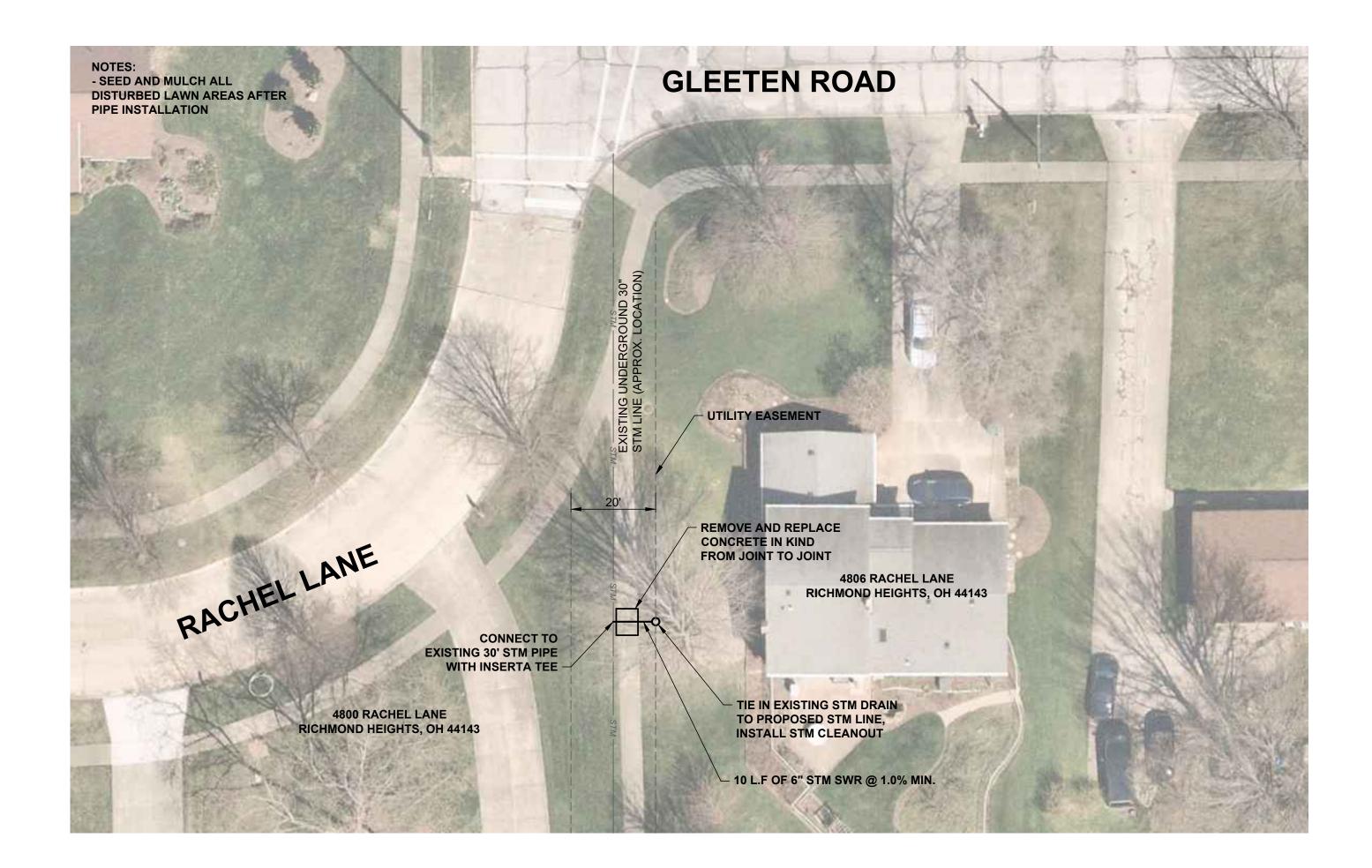
DATE	CITY OF RICHMOND HEIGHTS	ISSUED FOR:	BID	
		ISSUE DATE:	MARCH 2025	
	HARRIS ROAD - HARMS ROAD	SCALE:	AS SHOWN	
	DRAINAGE IMPROVEMENTS		WTV	
		DRAWN BY:	JCR	
	CUYAHOGA COUNTY, OHIO	CHECKED BY:	JRH	

H:\2024\241785\DWG\SHEETS\C_241785 - SHEETS.DWG - SITE LAYOUT - 3/19/2025 4:10:41 PM - JOSH ROHRBACH











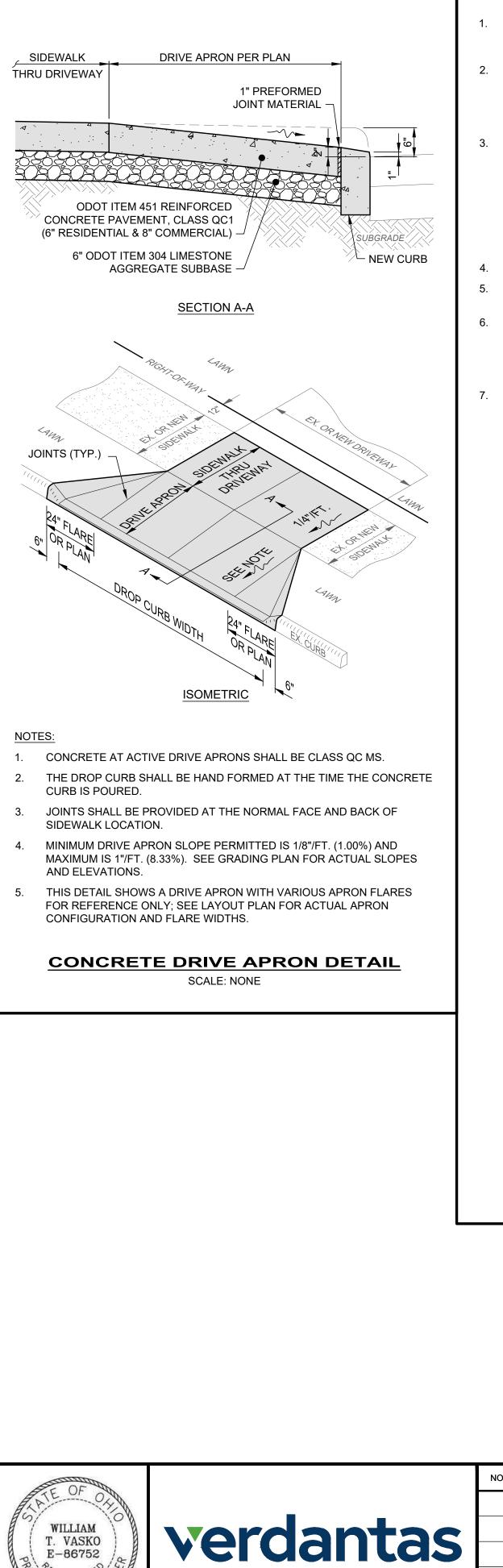
AERIAL VIEW

NO SCALE

4800 RACHEL LANE IMPROVEMENTS

PROJECT NO. 241785 DISCIPLINE

CIVIL SHEET NAME RACHEL LANE SHEET OF 7 5



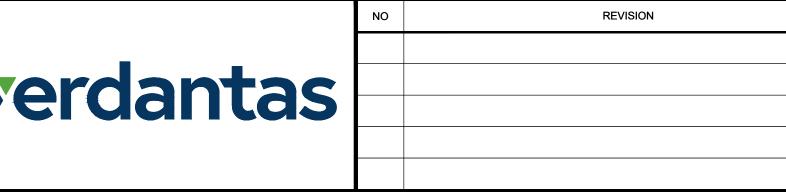
H:\2024\241785\DWG\SHEETS\C_241785 - DETAILS.DWG - D-1 - 3/20/2025 9:31:30 AM - JOSH ROHRBACH

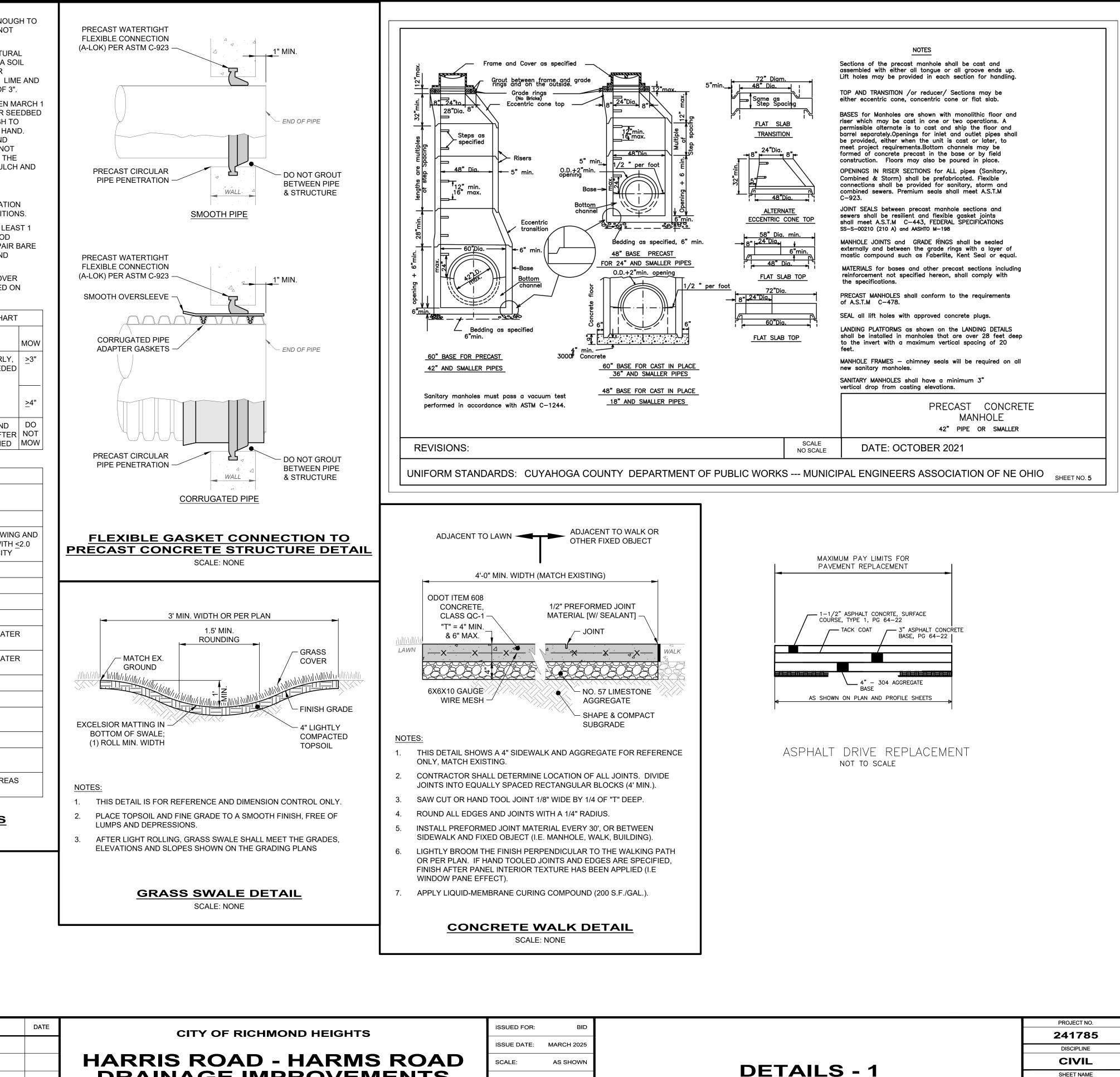
- SUBSOILING SHALL OCCUR WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT PERMITTED ON SLIP-PRONE AREAS.
- THE SEED BED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIMESTONE OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 3".
- APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED BETWEEN MARCH 7 AND MAY 31 OR AUGUST 1 AND SEPTEMBER 30. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. SEEDING SHOULD NOT BE APPLIED BETWEEN OCTOBER 1 AND NOVEMBER 20 BECAUSE SEEDS MAY GERMINATE, BUT WILL NOT SURVIVE THE WINTER. IF SEEDING MUST OCCUR, INCREASE THE SEEDING RATE BY 50% AND ANCHOR. APPLY ADDITIONAL MULCH AND IRRIGATION AS REQUIRED TO ENSURE GERMINATION.
- MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING.
- SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS.
- SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF SEEDING. DURING THIS PERIOD INSPECT FOR SOIL EROSION OR VEGETATION LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED AND **RE-MULCH AS NEEDED.**
- ADEQUATE PERMANENT VEGETATION SHALL BE GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE BASED ON VISUAL INSPECTION.

PERMANENT SEEDING FERTILIZATION AND MOWING CHA					
FORMULA	LB/ AC.	TIME			
10-10-10	500	FALL, YEARL OR AS NEED			
10-10-10	500				
10-10-10	500				
0-20-20	400	SPRING, AND			
0-20-20	400	YEARLY AFT ESTABLISHE			
	FORMULA 10-10-10 10-10-10 10-10-10 0-20-20	FORMULA LB/AC. 10-10-10 500 10-10-10 500 10-10-10 500 0-20-20 400			

PERMANENT SEEDING SPECIES SELECTION					
SEED MIX	SEED RATE LB/AC.	NOTES:			
	GENERAL USE				
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20 - 40 10 - 20 20 - 40	FOR CLOSE MOW WATERWAYS WIT FT./SEC. VELOCIT			
TALL FESCUE	40 - 50				
TURF-TYPE FESCUE	90				
STEEP F	BANKS OR CUT	SLOPES			
TALL FESCUE	40 - 50				
CROWN VETCH TALL FESCUE	10 - 20 20 - 30	DO NOT SEED LAT THAN AUGUST			
FLAT PEA TALL FESCUE	20 - 25 20 - 30	DO NOT SEED LAT THAN AUGUST			
ROAD	DITCHES AND S	WALES			
TALL FESCUE	40 - 50				
TURF-TYPE FESCUE KENTUCKY BLUEGRASS	90 5				
	LAWN				
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100 - 120 100 - 120				
KENTUCKY BLUEGRASS CREEPING RED FESCUE	100 - 120 100 - 120	FOR SHADED ARE			

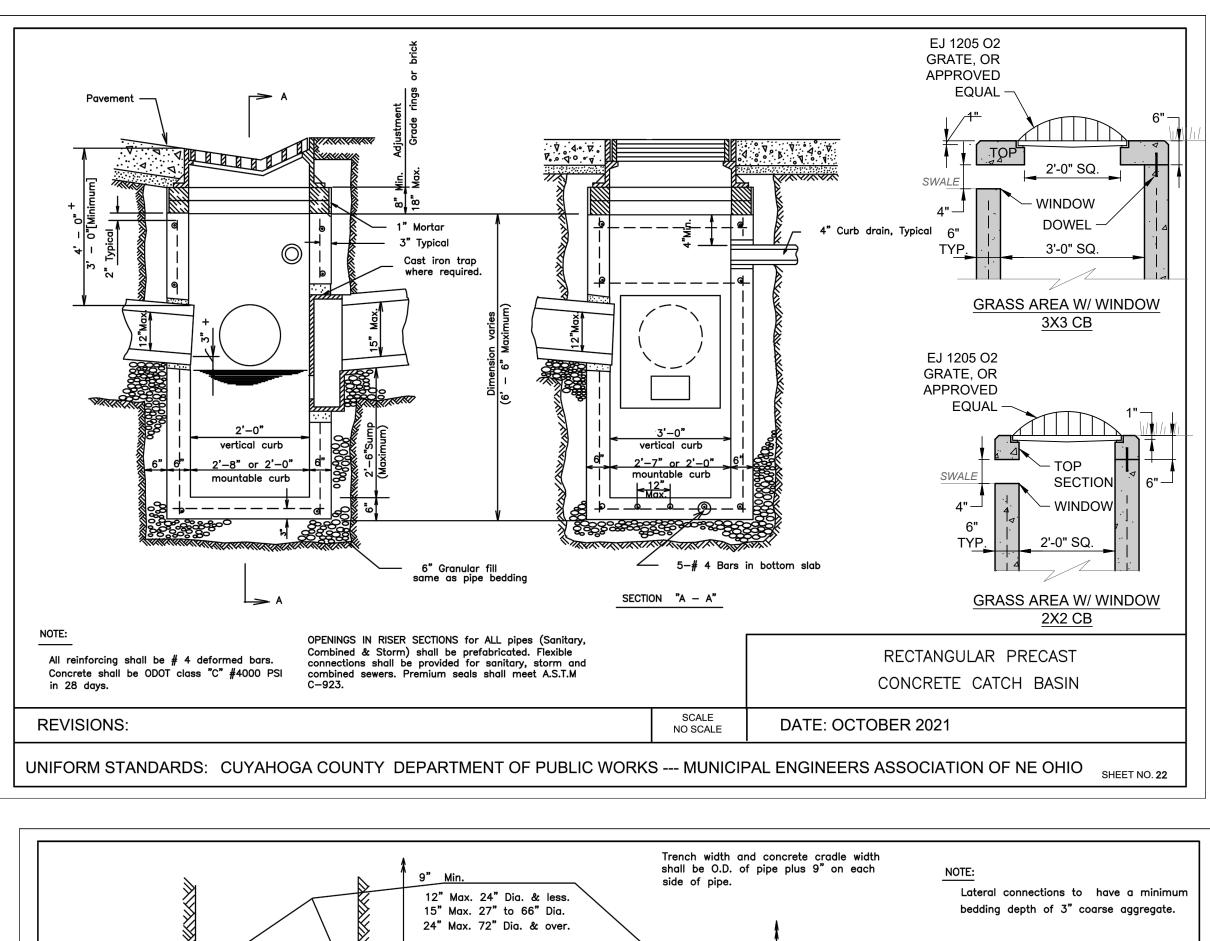
PERMANENT SEEDING NOTES

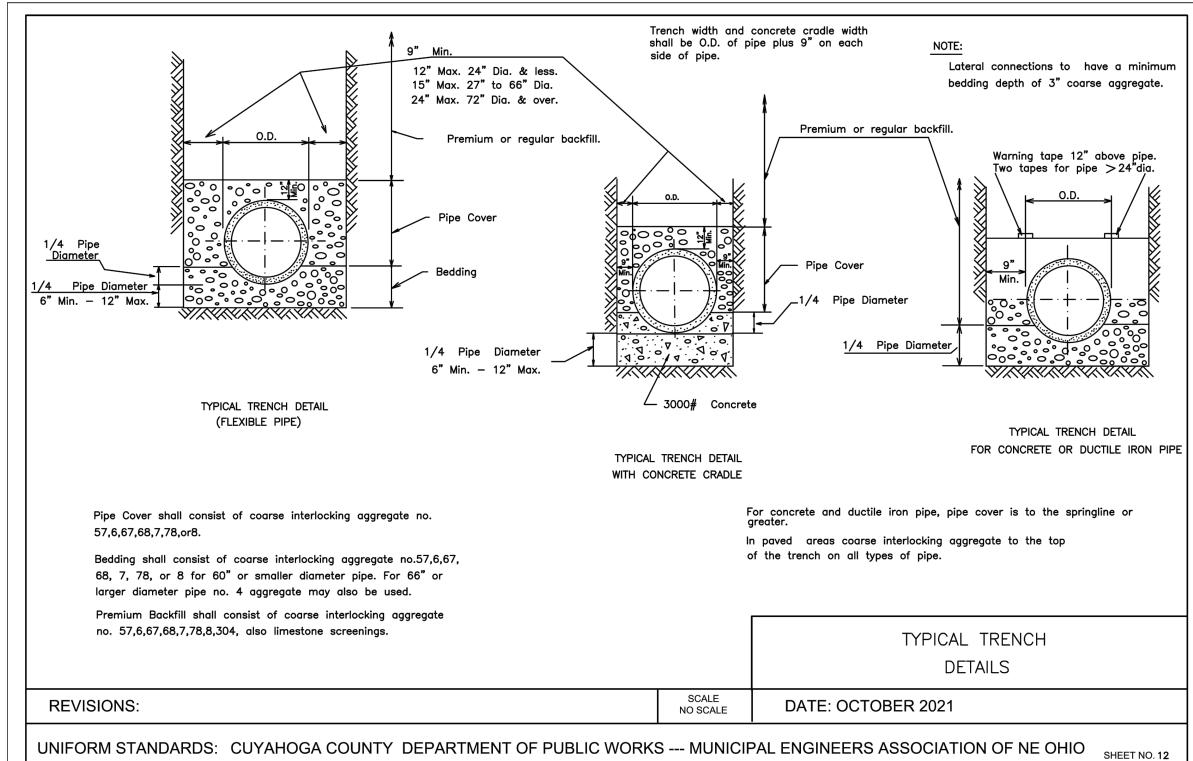


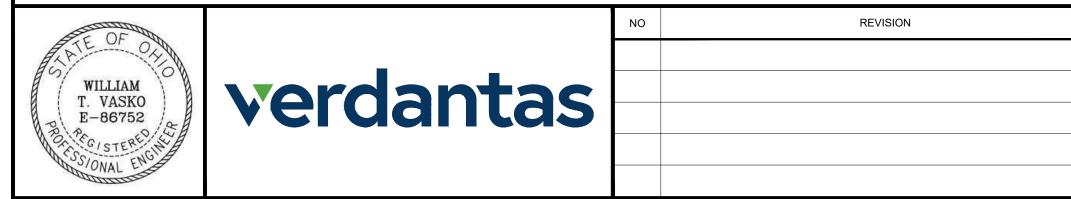


DATE	CITY OF RICHMOND HEIGHTS	ISSUED FOR:	BID	
		ISSUE DATE:	MARCH 2025	
	HARRIS ROAD - HARMS ROAD	SCALE:	AS SHOWN	
	DRAINAGE IMPROVEMENTS	DESIGNED BY:	WTV	
		DRAWN BY:	JCR	
	CUYAHOGA COUNTY, OHIO	CHECKED BY:	JRH	

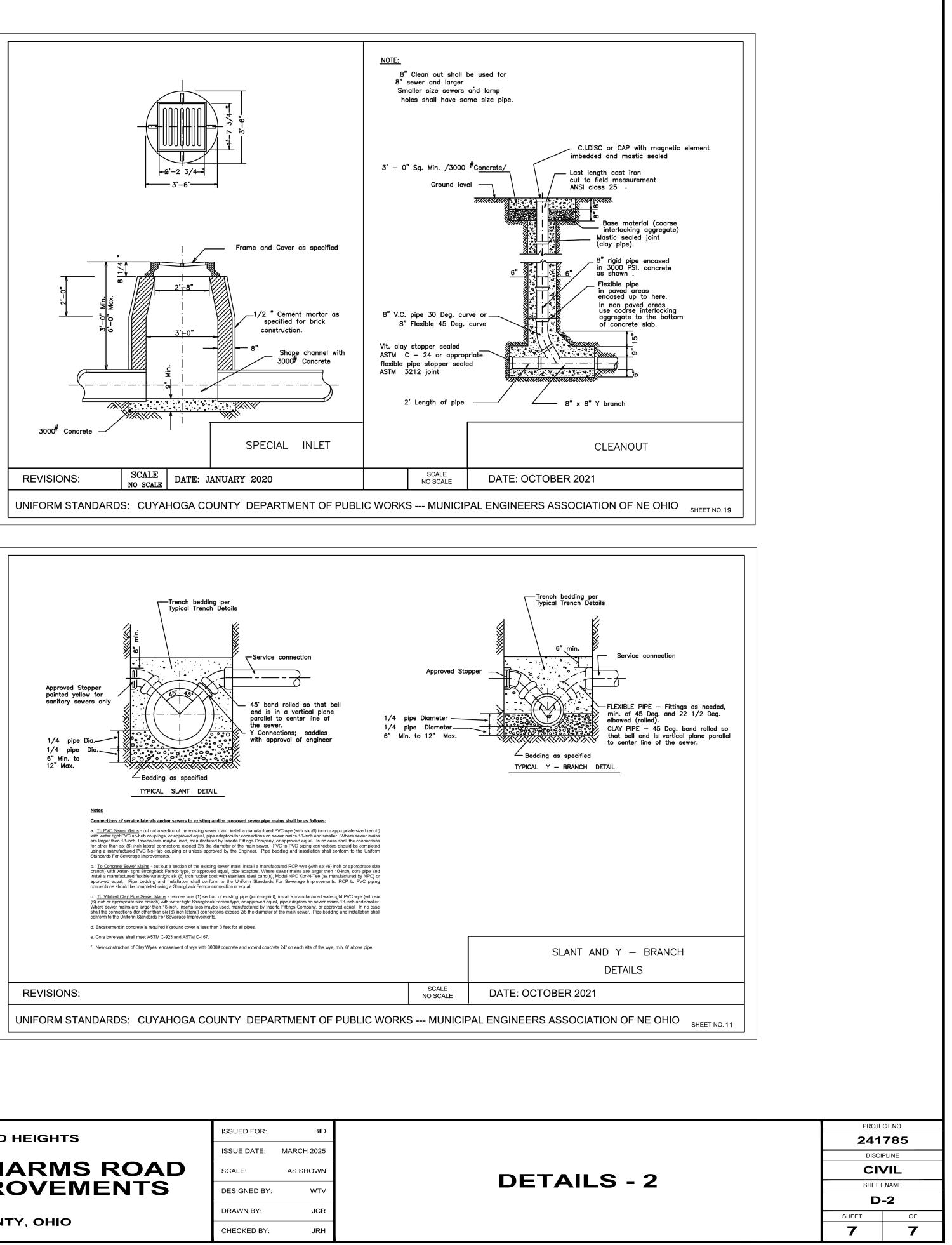
DISCI	PLINE		
CIVIL			
SHEET	NAME		
D	-1		
SHEET	OF		
6	7		

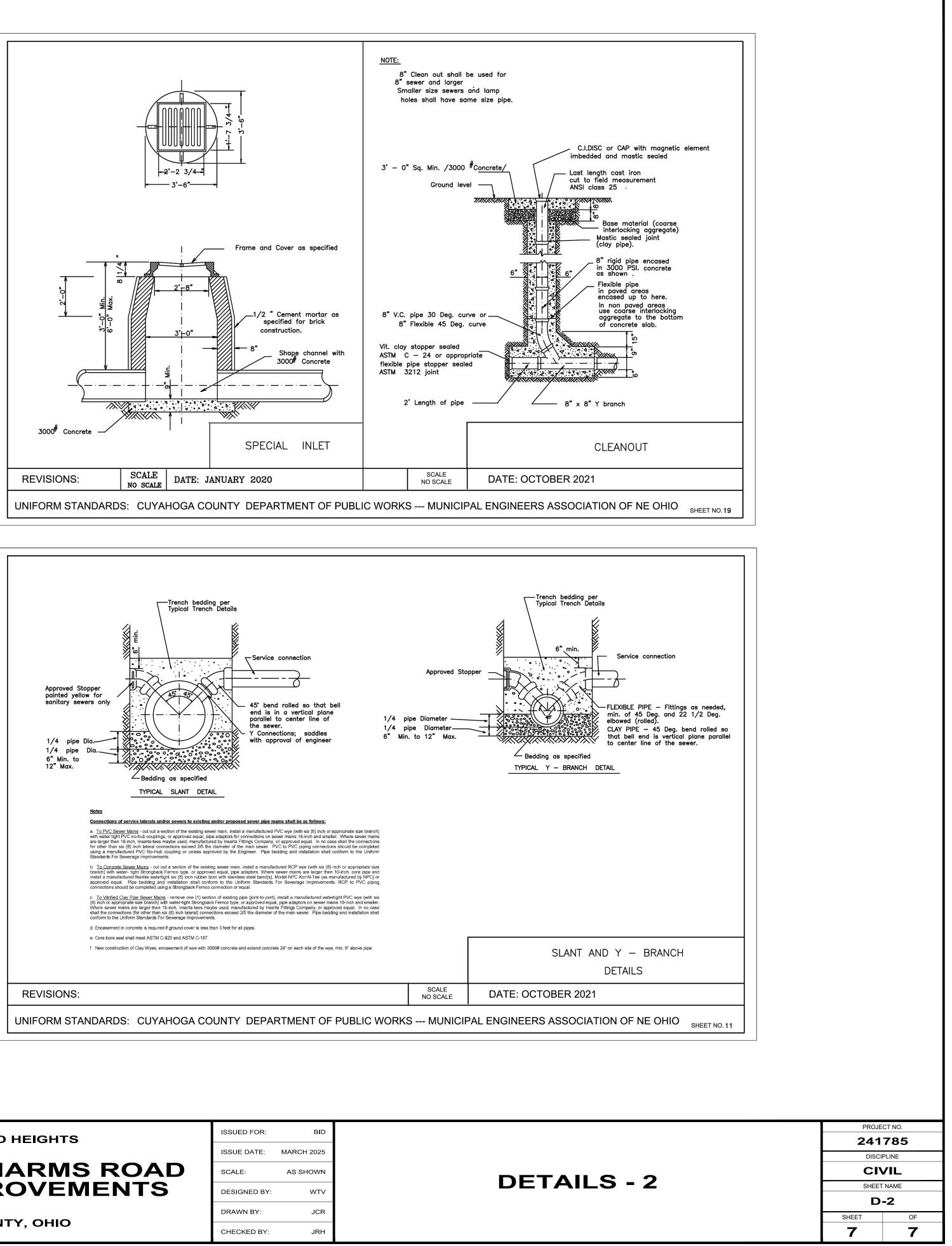






H:\2024\241785\DWG\SHEETS\C_241785 - DETAILS.DWG - D-2 - 3/20/2025 9:31:30 AM - JOSH ROHRBACH





DATE	CITY OF RICHMOND HEIGHTS	ISSUED FOR:	BID	
		ISSUE DATE:	MARCH 2025	
	HARRIS ROAD - HARMS ROAD	SCALE:	AS SHOWN	
	DRAINAGE IMPROVEMENTS	DESIGNED BY:	WT∨	
	CUYAHOGA COUNTY, OHIO	DRAWN BY:	JCR	
		CHECKED BY:	JRH	