

SPECIAL PROVISIONS

WATERWAY PERMITS CONDITIONS

**C-R-S: HAM-Winton Woods to
Glenwood Gardens
Trail**

PID: 117016

Date: 04/11/2025

1. Waterway Permits Time Restrictions:

Nationwide Permit 42 (Recreational Trails) is authorized for HAM-Winton Woods to Glenwood Gardens Trail, PID 117016. A copy of Nationwide Permit 42 and United States Army Corps of Engineers (USACE) authorization letter (LRH-2024-00506-MIL-West Fork Mill Creek) shall be kept at the work site at all times and made available to all contractors and subcontractors. The permit is effective starting: April 11, 2025. The permit expires: March 14, 2026.

For authorized work in aquatic resources (including streams, wetlands, jurisdictional ditches, captured streams, lakes, ponds), the Department will consider the Contractor's submission of a reauthorization to the waterway permit expiration date based on project constraints. If more than one permit is authorized for the project, then all permits become invalid once the first permit expires. In order for the request to be considered, the Contractor must submit a justification to the Engineer at least 90 days prior to the waterway permit expiration date. The Engineer will submit the request for a time extension to the Ohio Department of Transportation, Office of Environmental Services, Waterway Permits Unit (ODOT-OES-WPU) for consideration and coordination with the U.S. Army Corps of Engineers (USACE), Ohio Environmental Protection Agency (OEPA), U.S. Coast Guard (USCG), U.S. Fish and Wildlife Service (USFWS), and Ohio Department of Natural Resources (ODNR) as appropriate.

2. Deviations From Permitted Construction Activities:

No deviation from the requirements for work in aquatic resources depicted in the plans, Special Provisions, and/or Working Drawings may be made unless a modification has been submitted to ODOT-OES-WPU and approved by the appropriate agencies (i.e., USACE, OEPA, USCG, ODNR, and USFWS).

NOTE: Plan sheets submitted with the Pre-Construction Notification were approved by the USACE in accordance with Nationwide Permit 42 and are included in these Special Provisions.

For emergency situations resulting in unanticipated impacts to aquatic resources, provide notification (verbal or written) to the Engineer as soon as possible following discovery of the situation. Written notification to the Engineer and notification to the ODOT-OES-WPU (614-466-2159) must be made within 24 hours.

For non-emergency situations, notify the Engineer in writing for submission to the ODOT-OES-WPU (614-466-2159) for consideration and coordination with the appropriate agencies. Notification must be made at least 90 days prior to planned, non-permitted activities. Consideration of the requested deviation is at the discretion of the Director and must be coordinated with the appropriate regulatory agencies.

3. In-Stream Work Restrictions:

Work in the following aquatic resources is further restricted as follows:

Stream Name/Description	Location	Work restriction dates (No in-stream work permitted)
UNT-004	STA 179+80	None
UNT-005	STA 195+61	None
UNT-006	STA 213+48	None
UNT-007	STA 212+86	None
UNT-008B	STA 229+10	None

UNT = unnamed tributary stream

*Restriction dates do not apply if the stream has been dewatered prior to April 15.

In-stream work has been defined as the placement and/or removal of fill materials (temporary or permanent) below ordinary high water of a stream. Examples of “fill” include, but are not limited to: bridge piers, abutments, culverts, rock channel protection, scour protection, and temporary access fills.

Fills placed within a stream identified in the above table (outside of the work restriction dates) can continue to be worked from during the work restriction dates, but cannot be expanded, removed, or otherwise modified (below ordinary high water) until once again outside of the work restriction dates.

4. Materials:

Materials utilized in or adjacent to aquatic resources for temporary or permanent fill or bank protection shall consist of suitable material free from toxic contaminants in other than trace quantities. Asphalt products are specifically excluded for use as fill. Chromated Copper Arsenate (CCA), creosote, and other pressure treated lumber shall not be used in structures that are placed in aquatic resources.

5. Cultural Resources:

Per CMS 107.10, if archeological sites, historical sites, or human remains are discovered, cease all work in the immediate area and notify the Engineer who will immediately contact the ODOT-District Environmental Coordinator and ODOT-OES-Cultural Resource Section at 614-466-2159. In the event of human remains are identified by OES-Cultural Resources Section, the Engineer shall also contact the Hamilton County Sheriff’s Office at 513-825-1500.

6. Aquatic Resource Demarcation:

Tables 3 and 4 (attached) include detailed fill quantities authorized within the aquatic resources. Aquatic resources not authorized for impact by these Special Provisions shall be demarcated in the field as per SS 832 prior to site disturbance. The fence shall remain in place and be maintained throughout the construction process. Following the completion of the project, the fence and posts shall be removed.

7. Spill containment:

Provide and Maintain an Oil Spill Kit with a minimum capacity of 65 gallons. The Spill Kit shall contain:

- 6 - 3 in. X 8 ft. Oil only socks
- 4 - 18 in. X18 in. Oil only pillows
- 2 - 5 in. X 10ft. Booms
- 50 - 16in. X 20 in. Oil only pads
- 10- Disposable Bags
- 1 - 65 Gallon drum with lid
- 25 pounds of Granular Oil Absorbent

The Oil Spill Kit shall be located within 150 feet of any equipment working in a stream or wetland. The oil Spill Kit shall be maintained for the life of the contract. Any materials utilized during the project will be replaced within 48 hours. All costs associated with furnishing and maintaining the above referenced spill containment kit is incidental to work.

8. Blasting:

State law requires notification to the Ohio Department of Natural Resources should blasting be required within or near stream channels (See ORC 1533.58 & CMS 107.09). Notify the Engineer, in writing, a minimum of 30 days in advance of blasting, for submission to ODOT-OES-WPU (614-466-2159) for coordination with ODNR.

9. Project Inspection:

Inspection of Work may include inspection by representatives of other government agencies or railroad corporations that pay a portion of the cost of the Work or regulate the Work through State and Federal law. Comments from the representatives of these agencies shall be directed to the Engineer who will immediately contact the ODOT-District Environmental Coordinator and ODOT-OES-WPU at 614-466-2159.

10. Temporary Access Fills:**Special Provisions Notes:****Definitions:****Hydraulic Opening**

The cross-sectional area allowing an unimpeded discharge equal to twice the highest monthly flow without producing a rise in the backwater above the Ordinary High Water Mark (OHWM).

Standard Temporary Discharge

Discharge equal to twice the *highest monthly flow* without producing a rise in the backwater above the OHWM. The U.S. Geologic Service publication "Techniques for estimating Selected Streamflow Characteristics of Rural Unregulated Streams in Ohio" provides equations that estimate monthly flow for Ohio Waterways. These flows are also available in a web application by USGS StreamStats, (<https://water.usgs.gov/osw/streamstats/ohio.html>). The highest monthly flow is the highest monthly mean discharge occurring in a 12-month period from January to December.

Average Monthly Flow

The average monthly flow represents the estimated "normal" flow.

Temporary Access Fills (TAFs)

Include, but are not limited to, dewatering fills, causeways, cofferdams, access pads, temporary bridges, etc. below the OHWM.

Requirements

21 calendar days prior to the initiation of any in-stream work, provide the Engineer with Working Drawings that include:

- Plan view drawing (50 scale or less) showing the location of all TAFs proposed for use on the project
- Scaled cross section and profile drawing showing the OHWM and the proposed hydraulic opening.
- Identify the minimum diameter size, placement location and thickness of non-erodible Dumped Rock Fill material on the plan and profile.
- Calculations analyzing the hydraulic impacts of the TAF on the waterway. Include in the

calculations an analysis of the hydraulic opening sized adequately to pass the Standard Temporary Discharge without producing a rise in backwater above the OHWM. Include, in the analysis, calculated channel velocities adjacent to the TAF, culvert exit velocities, calculated headwater and tailwater elevations, and any additional appropriate calculations to assess potential impacts to the waterway during normal and anticipated high flow (twice the highest monthly flow) events.

- A description of all temporary material to be placed below the OHWM elevation.
- A description of the installation and staging of all temporary fill over the life of the contract.
- Identify the protection methods and/or structural Best Management Practices for minimizing impacts to the waterway.
- Volume of temporary fill below the OHWM elevation.
- A description of the diversion ditches, equipment, conduits or means for maintaining normal flows in the waterway.
- A description of the removal of all temporary fill and restoration of the channel and all areas impacted by the TAFs.
- A schedule outlining the timing of the placement and removal of all temporary fill.
- Have competent individuals prepare and check the Working Drawings and hydraulic calculations. Provide a cover sheet containing the preparer(s) and checker(s): First Name, Last Name and Initials. The preparer(s) and checker(s) shall not be the same individual. Have an Ohio Registered Engineer review, approve, sign, seal and date the Working Drawings and hydraulic calculations according to ORC 4733 and OAC 4733-35. Include the following statement on the Working Drawings: "These Working Drawings were prepared in compliance with the terms of these Special Provisions and all contract documents."

Do not begin in-stream work until the Engineer has accepted the Working Drawings and hydraulic calculations.

The design and construction of the Contractor's TAF must minimize impacts to water bodies, stream banks, stream beds, and riparian zones to the maximum extent practicable.

Fording of waterways and other aquatic resources is prohibited.

Construct TAFs in such a manner that will maintain flows, minimize upstream flooding, and avoid overtopping the TAF on a regular basis. ***TAFs shall be designed and constructed so that the hydraulic opening provides capacity for a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the (OHWM).***

If the Contractor proposes a TAF which does not meet all the requirements of these Special Provisions, the Contractor must submit a request in writing for a modified TAF to the Engineer. The request must include all Working Drawings and hydraulic calculations required by these Special Provisions. The Department makes no guarantee to grant the request. The Contractor's proposed TAF request will be coordinated by OES with the USACE and the OEPA, as appropriate. The time frame allowed for the coordination of the contractor's proposed TAF will be a minimum of 60 days.

Installation of any temporary fill without appropriate authorization is strictly prohibited. All direct coordination with the USACE and/or OEPA will be performed through OES.

TAFs Construction and Payment

Begin planning and installing causeways and access fills as early in construction as possible to avoid conflicts with these Special Provisions or other environmental commitments that have been included in the construction plans.

TAFs in Streams and Rivers may include, but are not limited to, causeways, cofferdams, access pads, sheet piling, temporary bridges, etc. The Contractor must make every attempt to minimize disturbance

to waterbodies, stream banks, stream beds and riparian zones during the construction, maintenance, and removal of the TAF. Construct the TAFs as narrow as practical. Install in-stream conduits parallel to the stream banks. Make the TAFs in shallow areas rather than deep pools where possible. Minimize clearing, grubbing, and excavation of stream banks, and approach sections. Construct the TAFs as to not cause erosion or allow sediment deposits in the waterway.

Prior to the initiation of any in-stream work, establish a monument upstream of the proposed TAF to visually monitor the water elevation in the waterway where the fill is permitted. Maintain the monument throughout the project. Provide a visual mark on the monument that identifies the elevation 1 foot above the OHWM. Ensure that the monument can be read from the bank of the waterway. Have this elevation set and certified by an Ohio Registered Surveyor. All costs associated with furnishing and maintaining the above referenced monument is incidental to the work.

Should the surface water elevation exceed the elevation 1 foot above OHWM, the Department will compensate the Contractor for repair of any resulting damage to the TAF up to the elevation of 1 foot above the OHWM, except as noted. The Department will recognize this event as an excusable, non-compensable delay in accordance with Section 108.06 B. of the Construction & Materials Specifications.

Follow the requirements in Item 502 for Structures for Maintaining Traffic and in Item 503 for Cofferdams and Excavation Bracing and any modifications to these items as shown in the plans. The Department will not pay for repair and maintenance of TAFs associated with Items 502 and 503 as a result of surface water elevation exceeding 1 foot above the OHWM. Compensation for damages associated with waterway flows will be provided as described in Items 502 and 503.

Construct the TAFs, not including Items 502 and 503, to a water elevation at least 1 foot (0.3 m) above the OHWM. If more than one-third the width of the stream is filled, then use culvert pipes to allow the movement of aquatic life. Ensure that any ponding of water behind the TAF will not damage property, flood roadways, or threaten human health and safety.

The following minimum requirements apply to TAFs where culverts are used.

- A. Furnish culverts on the existing stream bottom.
- B. Avoid a drop in water elevation at the downstream end of the culvert that would result in an adverse impact to the waterway.
- C. Furnish a sufficient number of culverts in addition to stream openings to provide a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the OHWM.
- D. Furnish culverts with a minimum diameter of 18 inches (0.5 m).

All TAFs must be constructed of suitable materials. Causeways and access fills must be encapsulated with clean, non-erodible, nontoxic Dumped Rock Fill, Type A, B, C, or D, meeting the requirements of C&MS 703.19.B. Utilize appropriately sized Dumped Rock Fill determined by the Contractor's engineer for encapsulating the sides of the TAF. Encapsulate all sides of the TAF with the non-erodible material. For causeways, contractors may use clean aggregate meeting C&MS 703.01 Size Number 1 and 2 for creating a working surface above the OHWM. Extend the non-erodible encapsulating material to at least the elevation of the top of the working surface. Extend clean aggregate up the slope from the original stream bank for 50 feet (10 m) to remove erodible material and prevent tracking from equipment onto the TAF.

When the work requiring TAF is complete, all portions of the TAF (including all rock and culverts) will be removed in its entirety. Do not dispose of TAF material in other aquatic resources or where erosion into another aquatic resource is possible. The stream bottom affected by the TAFs will be restored to its pre-construction elevations. The TAFs will not be paid as a separate item but will be included by the Contractor as part of the total project cost.

Unless specific TAF compensation is included in the plans, all environmental protection and control

associated with the authorized activities, are incidental to the work within the boundaries of the aquatic resources.

11. Excavation Activities:

Excavated material will be placed at an upland site and disposed of in such a manner that sediment and runoff to streams and other aquatic resources is controlled and minimized. Additionally, no more than incidental fallback into jurisdictional waters of the U.S. is permitted during the excavation process. If any changes to the proposed work are deemed necessary, notify the Engineer who will immediately contact the ODOT-District Environmental Coordinator and ODOT-OES-WPU at 614-466-2159.

12. Construction Completion Certification:

Upon completion of the work, notify the Engineer. The USACE Construction Completion Certification must be completed and signed by the Engineer then provided via US mail or email to:

Waterway Permits Program Manager
ODOT - Office of Environmental Services
1980 West Broad Street, Mail Stop 4170
Columbus, Ohio 43223
Adrienne.Earley@dot.ohio.gov

A copy of the certification has been attached to these Special Provisions.

13. Demolition Debris:

The intentional discharge of demolition debris from any structure (including but not limited to bridges, culverts, abutments, wing walls, piers) is not authorized for this project. If any demolition debris inadvertently falls into aquatic resources, it must be removed immediately. Notify the Engineer immediately in writing of any inadvertent fill discharged into aquatic resources. The Engineer will immediately contact ODOT-OES-WPU at 614-466-2159 if any unintentional discharge occurs.

TABLE 3. STREAM DISCHARGE AND FILL QUANTITIES

Stream	Station	Description of Impacts	Length (LF)	Width (LF)	Depth (LF)	Existing Culvert	Culvert Overlap	Permanent Fill Below OHWM												Total Permanent Fill			Total Temporary Fill			Total Impact Length
								Proposed Culvert (Including Pipes, Headwalls, and Collars)			Proposed RCP			Proposed Earthen, Granular, or Embankment Fill			Proposed Other (Steel, Etc.)									
								Length (LF)	Length (LF)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)
UNT-004 S&C 2*	STA 179+80	Culvert Installation (New)	892	8	0.5	NA	NA	43.5	0.008	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	43.5	0.008	6.5	10 (TAF)	0.002	3	53.5
UNT-005 S&C 3*	STA 195+61	Culvert Extension	179	5	0.4	42	1.5	20	0.003	1.5	NA	NA	NA	NA	NA	NA	NA	NA	20	0.003	1.5	10 (TAF)	0.001	1	30	
UNT-006 S&C 4*	STA 213+48	Culvert Extension	103	4.5	0.4	32.5	1.5	8	0.001	0.5	12	0.001	1	NA	NA	NA	NA	NA	20	0.002	1.5	10 (TAF)	0.001	1	30	
UNT-007 S&C 4*	STA 212+86	Culvert Modification, Scour Protection	335	3.5	0.4	40.5	3	3	0.001	0.5	30	0.002	2	17	0.001	0.5	NA	NA	50	0.004	3.0	10 (TAF)	0.001	0.5	60	
SUM (S&C 4):						73	4.5	11	0.002	1	42	0.003	3	17	0.001	0.5	NA	NA	70	0.006	4.5	20 (TAF)	0.002	1.5	90	
UNT-008B S&C 5*	STA 229+10	Culvert Installation (New)	240	3	0.3	NA	NA	45.5	0.004	1.5	9.5	0.001	2	NA	NA	NA	NA	NA	55	0.005	3.5	10 (TAF)	0.001	0.5	65	
SUM (All):						115	6	120	0.017	10.5	51.5	0.004	5	17	0.001	0.5	0	0	0	188.5	0.022	16	50	0.006	6	238.5

*Single and Complete Project (See Figure 4)
LF = linear feet; AC = acres; CY = cubic yards; RCP = rock channel protection or the like (specify if different, i.e.. concrete block matting); NA = Not Applicable

TABLE 4. WETLAND DISCHARGE AND FILL QUANTITIES

Wetland	Station	Description of Impacts	Acreage (AC)	Depth (LF)	Permanent Fill Within Wetland Boundary								Total Permanent Fill		Total Temporary Fill		Total Impact Acreage
					Proposed Concrete or Asphalt (Includes Culvert, Piers, Walls, Abutments, etc.)		Proposed RCP		Proposed Earthen, Granular, or Embankment Fill		Proposed Other (Steel, Etc.)						
					Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	Area (AC)
W-1 S&C 1*	STA 146+35 - STA 147+30	Multi-Use Path Installation (New Alignment)	0.085	1	0.003	4.8	NA	NA	0.030	48.4	NA	NA	0.033	53.2	NA	NA	0.033
W-2 S&C 1*	STA 145+85 - STA 146+05	Multi-Use Path Installation (New Alignment)	0.022	1	0.006	9.7	NA	NA	0.009	14.5	NA	NA	0.015	24.2	NA	NA	0.015
W-3 S&C 1*	STA 143+90 - STA 144+55	Multi-Use Path Installation (New Alignment)	0.042	1	NA	NA	NA	NA	0.013	20.9	NA	NA	0.013	20.9	NA	NA	0.013
SUM (S&C 1):					0.009	14.5	NA	NA	0.052	83.8	NA	NA	0.061	98.3	NA	NA	0.061
W-4 S&C 4*	STA 212+80 - STA 212+90	Multi-Use Path Installation (New Alignment) and Culvert Modification (UNT-007)	0.002	1	NA	NA	NA	NA	0.002	3.2	NA	NA	0.002	3.2	NA	NA	0.002
SUM (All):					0.009	14.5	NA	NA	0.054	87.0	NA	NA	0.063	101.5	NA	NA	0.063

*Single and Complete Project (see Figure 4)
LF = linear feet; AC = acres; CY = cubic yards; RCP = rock channel protection or the like (specify if different, i.e.. concrete block matting); NA = Not Applicable

SPRINGFIELD TOWNSHIP
VILLAGE OF WOODLAWN
VILLAGE OF GREENHILLS
CITY OF FOREST PARK
HAMILTON COUNTY

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 19-29 , AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



ADA DESIGN WAIVERS NONE

700 Broadway Street TEL 513 621 6211
Cincinnati, OH 45202-6010 FAX 513 621 6530



COVER SHEET	01	CULVERT DETAIL	177-183	TREE PRESERVATION AND DEMO	
SCHEMATIC PLAN	02-08	RETAINING WALL GENERAL NOTES	184	PLAN	
TYPICAL SECTIONS	09-16	RETAINING WALL SUB-SUMMARY	185	-LAKEVIEW DRIVE TRAIL	210-215
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DRIVEWAY DETAILS	175-176	- SHARED USE PATH	205-209		

ENGINEERS SEAL:

FOR PLANS PREPARED BY
143 ENGINEERS

STATE OF OHIO
CAROLINE F. DUFFY
E-58016
REGISTERED
PROFESSIONAL ENGINEER

ENGINEERS SEAL:

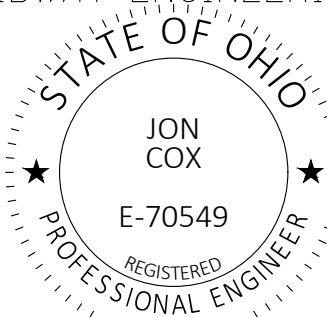
FOR PLANS PREPARED BY
KZF DESIGN

STATE OF OHIO
SHAWN RICHARDS
E-87358
REGISTERED
PROFESSIONAL ENGINEER

Shawn Richards Digitally signed by
Shawn Richards
Date: 2025.01.30
15:32:17-05'00'

FINAL TRACINGS

[illegible]

ENGINEERS SEAL: FOR PLANS PREPARED BY RIBWAY ENGINEERING  STATE OF OHIO JON COX E-70549 REGISTERED PROFESSIONAL ENGINEER	<i>Douglas A. Gruver</i> Douglas A. Gruver, P.E. District 08 Deputy Director <i>Pamela Boratyn</i> Pamela Boratyn Director, Department of Transportation
ENGINEERS SEAL: FOR PLANS PREPARED BY RIBWAY ENGINEERING  STATE OF OHIO LARRY IVORY E-57814 REGISTERED PROFESSIONAL ENGINEER	ENGINEERS SEAL: FOR PLANS PREPARED BY RIBWAY ENGINEERING  STATE OF OHIO ANDREW ERIBO E-55132 REGISTERED PROFESSIONAL ENGINEER

TITLE SHEET

DESIGN AGENCY

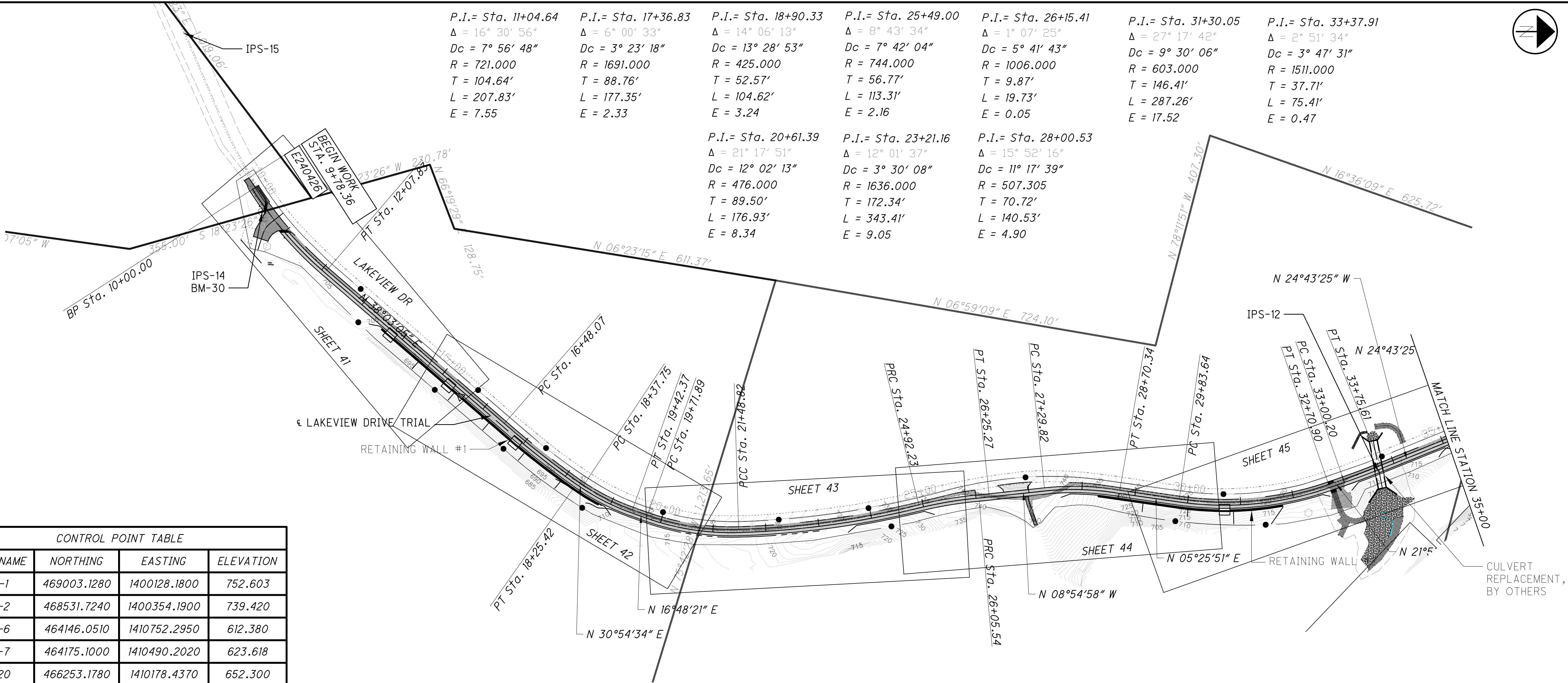
KZF DESIGN
Designing Better Futures

700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER	
SCR	
REVIEWER	
SCR 1/30/2023	
PROJECT ID	
117016	
SHEET	TOTAL
P 01	298

CONTROL POINT TABLE			
POINT NAME	NORTHING	EASTING	ELEVATION
BM -1	469003.1280	1400128.1800	752.603
BM -2	468531.7240	1400354.1900	739.420
BM -6	464146.0510	1410752.2950	612.380
BM -7	464175.1000	1410490.2020	623.618
BM 20	466253.1780	1410178.4370	652.300
BM 21	465918.5360	1409624.3200	628.310
BM 22	465523.8040	1409165.6770	607.690
BM 23	466149.7490	1408307.5900	613.060
BM 24	466457.1540	1407714.4480	619.400
BM 25	466797.2220	1406787.8510	616.050
BM 26	467369.1450	1405798.9020	632.750
BM 27	467851.8930	1403680.7840	707.740
BM 28	467066.2760	1402777.3950	732.940
BM 29	468532.8460	1400394.9110	738.680
BM 30	465912.4970	1400269.2970	706.350
IPS-10	469057.4220	1400155.8270	751.539
IPS-12	468532.8460	1400394.9110	738.684
IPS-14	465912.4970	1400269.2970	706.349
IPS-15	465704.3260	1399870.9740	706.825
IPS-16	467851.8930	1403680.7840	707.745
IPS-17	468533.2820	1403702.8120	706.236
IPS-18	467745.4360	1404217.1820	703.792
IPS-19	467584.8910	1404856.5750	696.046
IPS-21	467020.4250	1406390.7450	621.563

CONTROL POINT TABLE			
POINT NAME	NORTHING	EASTING	ELEVATION
IPS-22	466797.2220	1406787.8510	616.053
IPS-24	466757.4830	1407565.7880	627.775
IPS-25	466457.1540	1407714.4480	619.399
IPS-26	466104.4620	1408608.0290	612.726
IPS-27	465933.0930	1408799.1060	611.216
IPS-28	465724.9230	1408894.9040	608.323
IPS-29	465523.8040	1409165.6770	607.690
IPS-30	465279.6650	1409817.5680	634.139
IPS-32	464002.0230	1410551.4930	609.030
IPS-33	463977.3490	1410744.0120	603.350
IPS-35	467066.2760	1402777.3950	732.945
IPS-36	467369.8670	1402169.1240	739.799
IPS-60	467369.1450	1405798.9020	632.747
IPS-61	467215.8840	1405904.3840	629.485
IPS-11	468773.2200	1400015.0920	742.496



HORIZONTAL
SCALE IN FEET

0

100

200

SCHEMATIC PLAN - LAKEVIEW DRIVE TRAIL,
CARLSBAD RD, AND WINTON WOODS TO GLENWOOD GARDENS TRAIL

DESIGN AGENCY

KZF DESIGN
Designing Better Futures

700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6630

DESIGNER

SCR

REVIEWER

SCR 2/26/2025

PROJECT ID

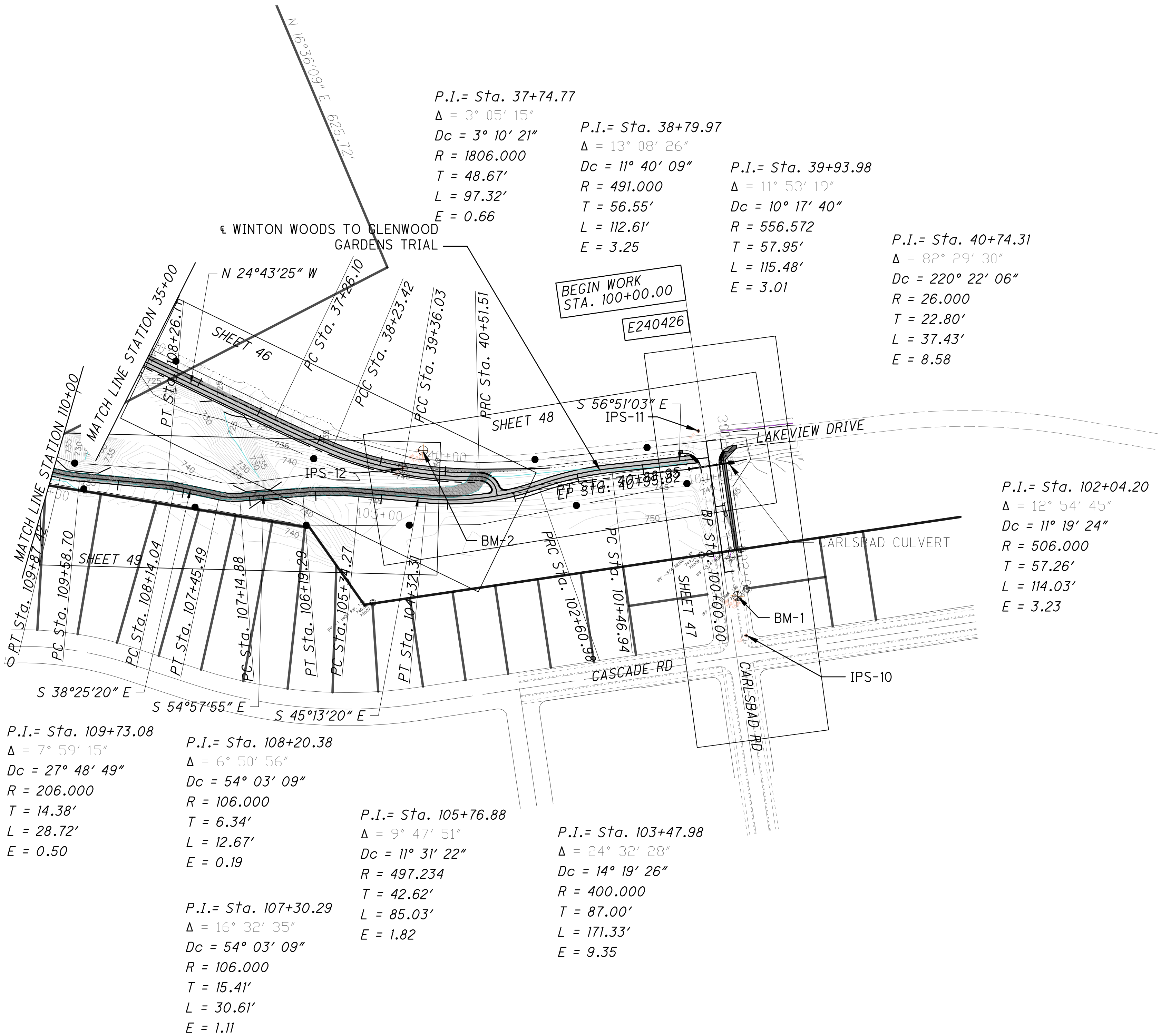
117016

SHEET

P.02

TOTAL

298



HORIZONTAL
SCALE IN FEET

0 50 100 200

SCHEMATIC PLAN - LAKEVIEW DRIVE TRAIL,
CARLSBAD RD, AND WINTON WOODS TO GLENWOOD GARDENS TRAIL

DESIGN AGENCY



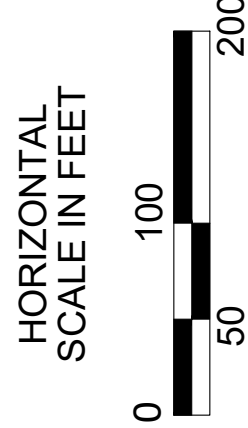
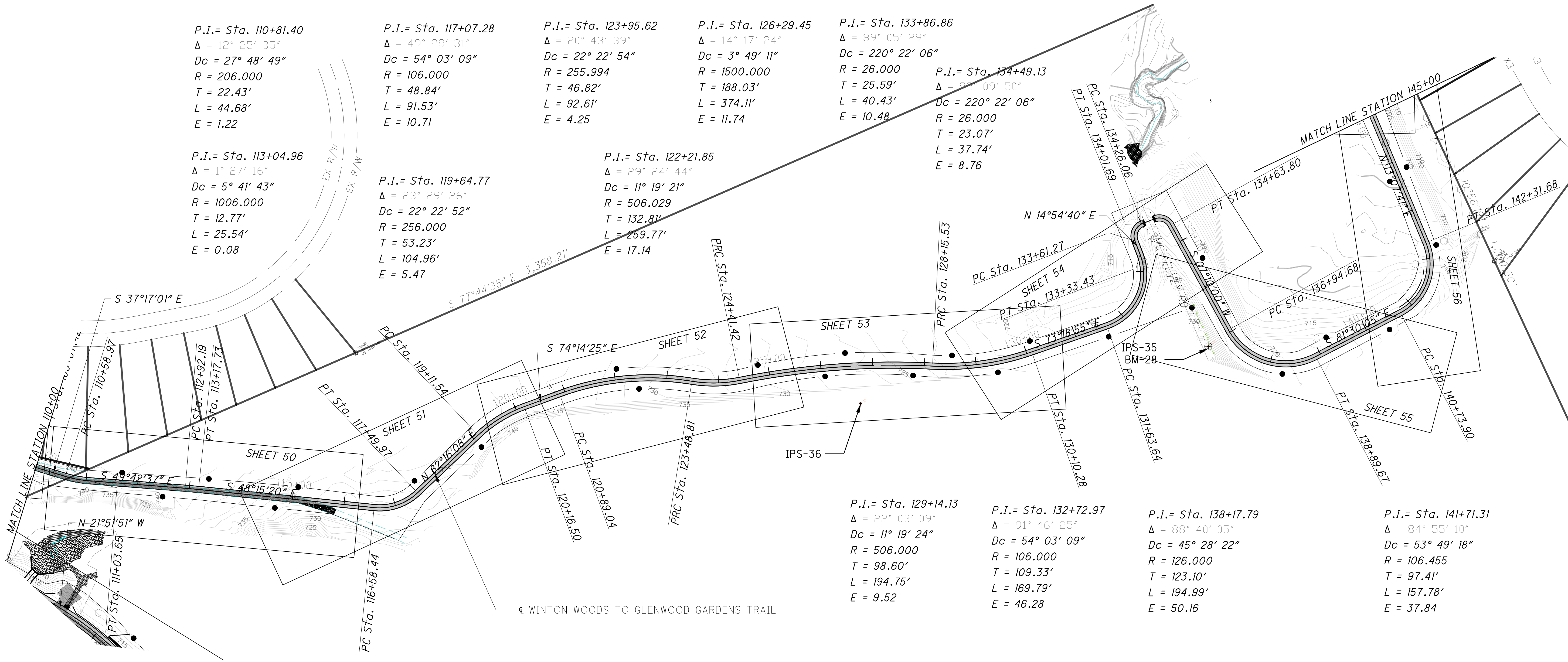
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER
SCR

REVIEWER
SCR 1/29/2025

PROJECT ID
117016

SHEET TOTAL
P.03 298



SCHEMATIC PLAN
WINTON WOODS TO GLENWOOD GARDENS TRAIL

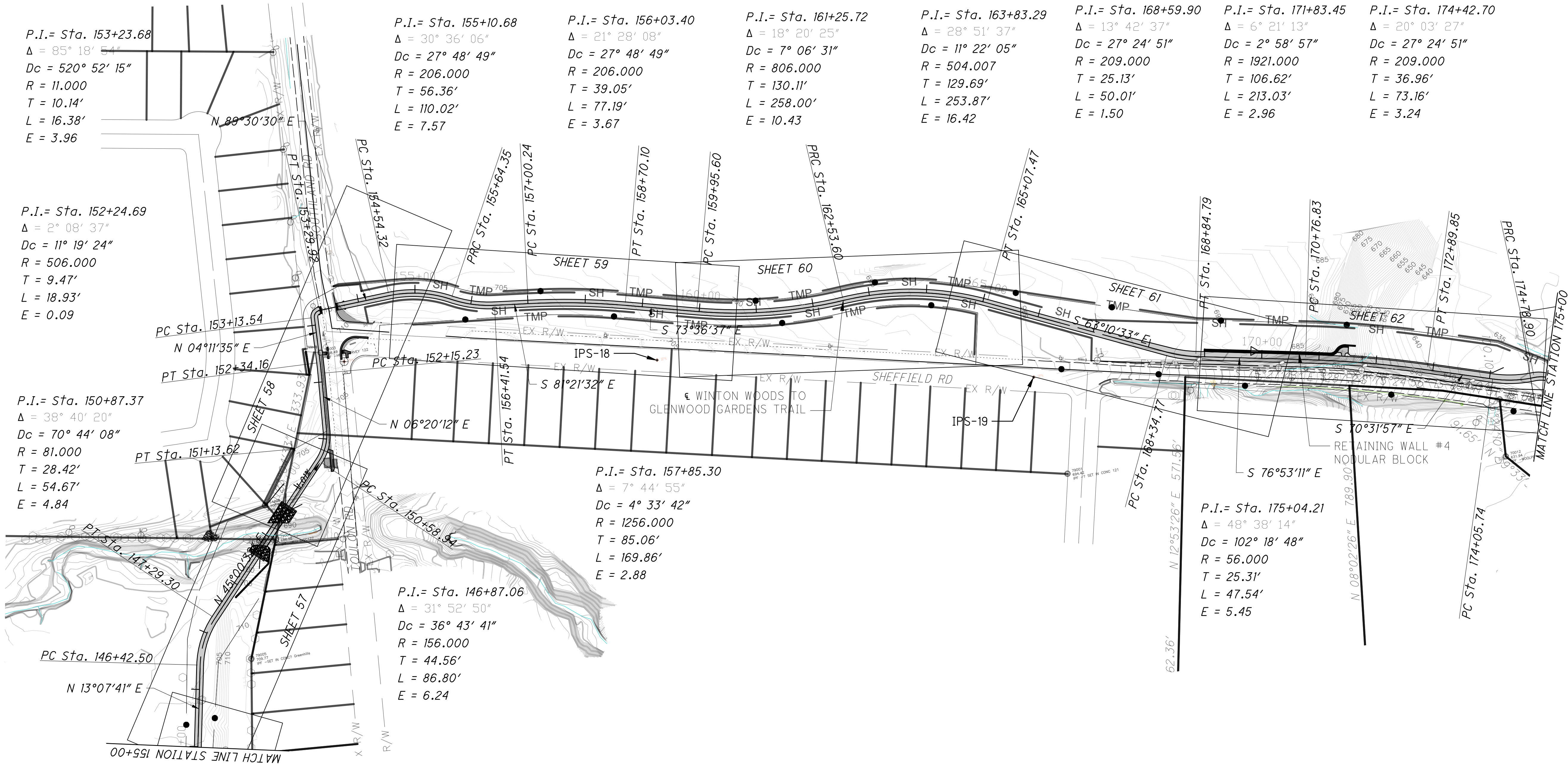
DESIGN AGENCY
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DESIGNER
SCR

REVIEWER
SCR 1/29/2025

PROJECT ID
117016

SHEET	TOTAL
P.04	298



HORIZONTAL
SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
WINTON WOODS TO GLENWOOD GARDENS TRAIL

DESIGN AGENCY

KZF DESIGN
Designing Better Futures

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DESIGNER

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REVIEWER

SCR 1/29/2025

PROJECT ID

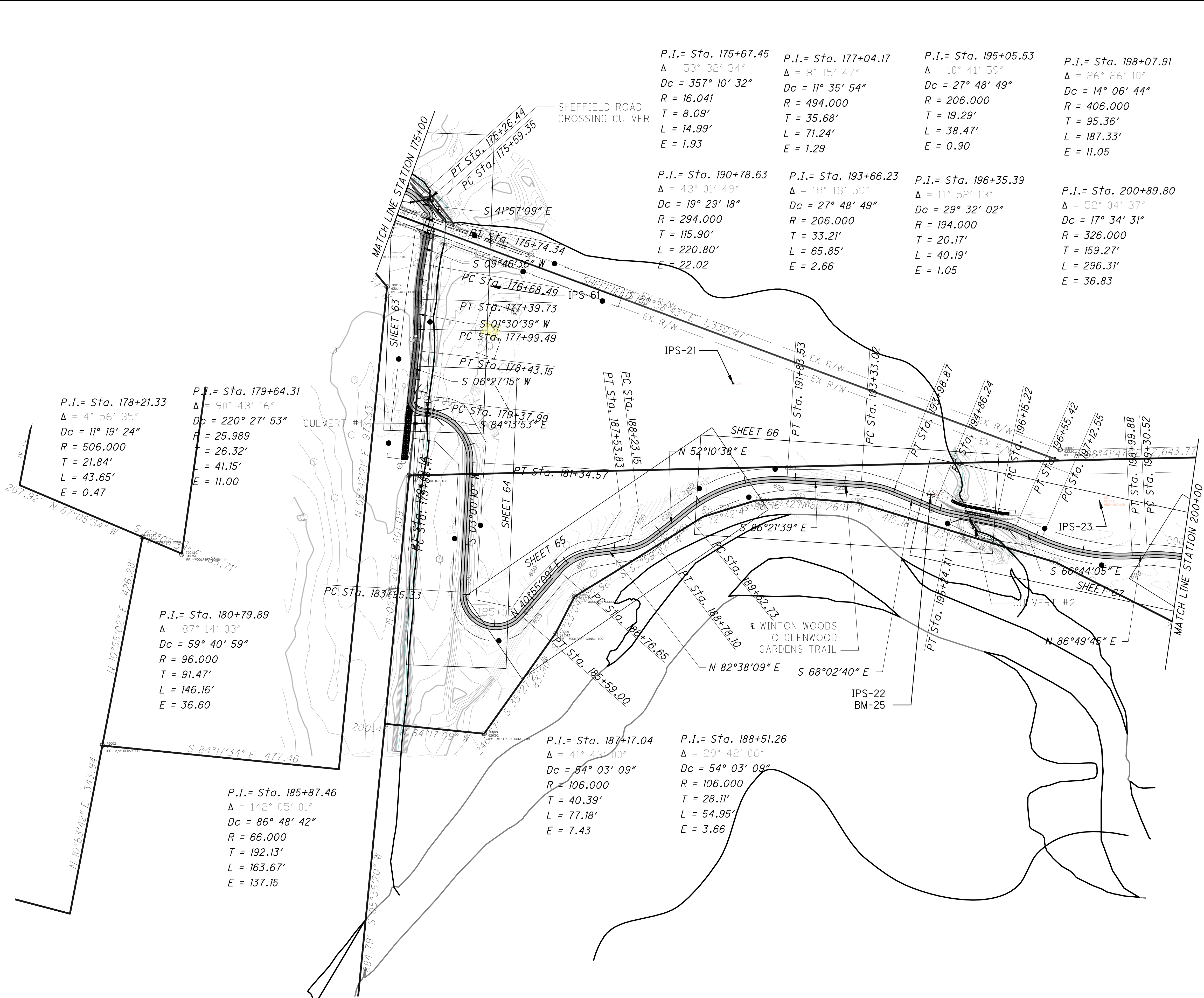
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SHEET

P.05

TOTAL

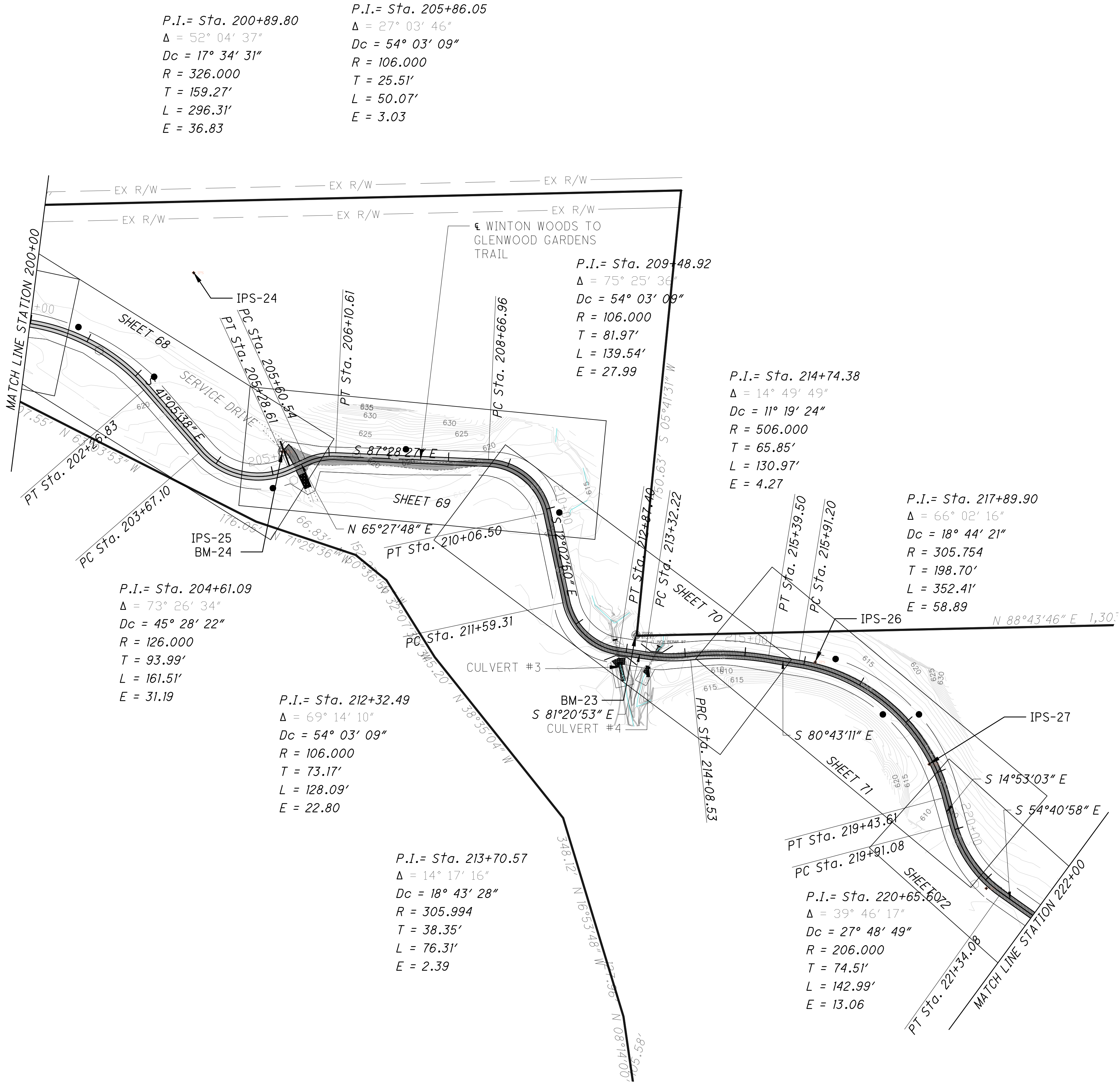
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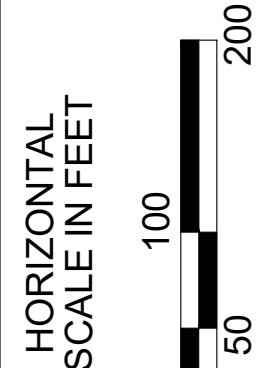
SCHEMATIC PLAN
WINTON WOODS TO GLENWOOD GARDENS TRAIL

DESIGN AGENCY
KZF DESIGN
Designing Better Futures
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER
SCR
REVIEWER
SCR
PROJECT ID
117016
SHEET
P.06
TOTAL
298



SCHEMATIC PLAN
WINTON WOODS TO GLENWOOD GARDENS TRAIL



DESIGN AGENCY
KZF DESIGN
Designing Better Futures
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DESIGNER
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SCR 1/29/2025
PROJECT ID
117016
SHEET TOTAL
P.07 298



**HORIZONTAL
SCALE IN FEET**



A horizontal scale bar with markings at 50, 100, and 200 feet. The bar is divided into segments: a black segment from 0 to 50, a white segment from 50 to 100, a black segment from 100 to 150, a white segment from 150 to 200, and a black segment from 200 to 250.

DESIGN AGENCY

KZF DESIGN
Designing Better Futures

700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER	
SCR	
REVIEWER	
SCR 1/29/2022	
PROJECT ID	
117016	
SHEET	TOTAL
P.08	298

UTILITY OWNERSHIP

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

DUKE ENERGY - ELECTRIC (DISTRIBUTION)
2010 DANA AVE
CINCINNATI, OH 45207
513-514-8209 (CHRIS TEPE)
CHRIS.TEPE@DUKE-ENERGY.COM

DUKE ENERGY GAS
139 EAST 4TH ST., ROOM 460A
CINCINNATI, OH 45202
OH/KYHOUSEBILL@DUKE-ENERGY.COM

ALTAFIBER
221 E. 4TH ST, BLDG. 121-900
CINCINNATI, OH 45201
ROADPROJECTS@ALTAFIBER.COM

CINCINNATI METROPOLITAN SEWER DISTRICT
1600 GEST STREET
CINCINNATI, OH 45204
DESIGN: 513-557-7188 (ROB FRANKLIN)
MSDUTILITYREVIEW@CINCINNATI-OH.GOV

GREATER CINCINNATI WATER WORKS
4747 SPRING GROVE AVENUE
CINCINNATI, OH 45232
513-352-3723 (DAN LOUIS)
DANIEL.LOUIS@GCWW.CINCINNATI-OH.GOV

CINCINNATI STORMWATER MANAGEMENT UTILITY
4747 SPRING GROVE AVENUE
CINCINNATI, OH 45232
513-591-7783 (NICK CHRISTOPFEL)
NICK.CHRISTOPFEL@CINCINNATI-OH.GOV
SMUPLANREVIEW@CINCINNATI-OH.GOV

CITY OF SPRINGDALE
11700 SPRINGFIELD PIKE
CINCINNATI, OH 45246
513-346-5700 (DERRICK PARHAM)
DPARHAM@SPRINGDALE.ORG

CITY OF FOREST PARK
1201 W KEMPER RD
FOREST PARK, OH 45240
513-595-5200 (RAY HODGES)
JOANNEL@FORESTPARK.ORG

SPRINGFIELD TOWNSHIP
952 COMPTON ROAD
CINCINNATI, OH 45231
513-522-4004 (SCOTT SCHARDINE)
SSCHARDINE@SPRINGFIELDTWP.ORG

EXISTING FACILITIES

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THEIR WORK IN SUCH MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FACILITY. IF ANY DAMAGE TO ANY EXISTING FACILITY OCCURS DUE TO THE CONTRACTOR'S OPERATIONS, THEY SHALL REPLACE THE DAMAGED FACILITY AT THEIR EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

WORK LIMITS

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

PROJECT PHASING

PROJECT PHASING TO BE COORDINATED WITH GREAT PARKS, AND THE EMERGENCY CULVERT REPAIR PROJECT ALONG LAKEVIEW DRIVE. PHASING LAID OUT IN THESE PLANS IS FOR MAINTENANCE OF TRAFFIC (MOT) CLARIFICATION PURPOSES ONLY AND MAY BE ADJUSTED WITH THE APPROVAL OF GREAT PARKS AND THE ENGINEER.

CONSTRUCTION NOTIFICATION

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

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

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

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

SURVEYING

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 02 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (86)
ELLIPSOID: GRS80
MAP PROTECTION: LAMBERT
COORDINATION SYSTEM: STATE OF PLANE OH SOUTH
1.000094421104

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 823.

G110 MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 300.

CLEARING AND GRUBBING, AS PER PLAN

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. EXISTING WOODLAND WITHIN THE CONSTRUCTION LIMITS SHALL ONLY BE CLEARED IF REQUIRED TO COMPLETED WORK OR APPROVED FOR USE AS LAYDOWN AREA BY GREAT PARKS AND THE PROJECT ENGINEER. TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED AS DETAILED IN THE LANDSCAPING PLANS. IF REMOVAL OF ADDITIONAL TREES IS REQUIRED GREAT PARKS SHALL BE NOTIFIED PRIOR TO REMOVAL OF THE TREE. REFER TO LANDSCAPING SHEETS 210-248 FOR POTENTIAL HAND CLEARING LOCATIONS AND NOTES.

THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	153	0	153
30"	19	1	20
48"	2	0	2
60"	0	0	0

SEEDING AND MULCHING, AS PER PLAN

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

659, TOPSOIL	3584 CU. YD.
659, SEEDING AND MULCHING	32284 SQ. YD.
659, REPAIR SEEDING AND MULCHING	1614 SQ. YD.
659, COMMERCIAL FERTILIZER	4.36 TON
659, LIME	6.67 ACRE
659, WATER	174.3 M. GAL.

REFER TO LANDSCAPING PLANS 249E-287 FOR SEEDING MIXES AND PLANTING SCHEDULES. REFER TO LANDSCAPING GENERAL NOTES SHEETS 249A-249D FOR SPECIFIC PLANTING AND SEEDING APPLICATION NOTES.

UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS FOR THE PROJECT WITHIN THE PROPOSED CONSTRUCTION AREA

THE CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN THE LIMITS OF ANY GROUND DISTURBING ACTIVITIES. THIS REQUIREMENT INCLUDES, BUT SHALL NOT BE LIMITED TO, SHARED USE PATH AREAS, AND CURB RAMP AREAS. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITY PROTECTION SERVICE TO LOCATE UTILITIES IN THE PROJECT. THE CONTRACTOR SHALL DIRECTLY CONTACT ALL OTHER UTILITIES THAT ARE NOT MEMBERS OF OHIO UNDERGROUND PROTECTION SERVICE.

ALL UTILITIES LOCATED WITHIN THE DISTURB LIMITS SHALL BE PROTECTED FROM ANY DAMAGE FROM ALL CONSTRUCTION ACTIVITIES. ALL UTILITIES TO BE ADJUSTED TO GRADE SHALL HAVE ALL MATERIALS AND WORKMANSHIP PERFORMED TO THE REQUIREMENTS OF THE UTILITY OWNER.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, THE CONTRACTOR WILL COMPLY WITH ALL LOCAL NOISE ORDINANCES. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BROWN BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH NOVEMBER 14. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM NOVEMBER 15 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

UNRECORDED STORM WATER DRAINAGE

FURNISH A CONTINUANCE FOR ALL UNRECORDED STORM WATER DRAINAGE, SUCH AS ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK. FURNISH EITHER AN OPEN CONTINUANCE OR AN UNOBSTRUCTED CONTINUANCE BY CONNECT-STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEEDED CONDUIT TO REPLACE OR EXTEND AN EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 6" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION 100 FT

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 90 M. GAL.

ITEM 209 - LINEAR GRADING, AS PER PLAN

PROVIDE GRADING ALONG FROM THE EDGE OF PATH TO 5' OUT EACH SIDE, IN PREPARATION FOR ITEM 653 TOPSOIL. ALL OTHER ITEMS WITH REGARDS TO ITEM 209: LINEAR GRADING SHALL APPLY.

ITEM 411 - STABILIZED CRUSHED AGGREGATE

THIS WORK SHALL CONSIST OF THE RECONSTRUCTION OF A GRAVEL SERVICE DRIVE. THE DEPTH OF THIS DRIVE SHALL BE 12" OR MATCH THE EXISTING AGGREGATE PAVEMENT THICKNESS, WHICHEVER IS GREATER.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 411 - STABILIZED CRUSHED AGGREGATE, AS PER PLAN

ITEM 690 - SPECIAL - BOLLARD

THE ITEM SHALL INCLUDE INSTALLATION OF STEEL BIKEWAY BOLLARDS PER STANDARD CONSTRUCTION DRAWING RM 5.1 AND THESE PLANS

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 690 - SPECIAL - BOLLARD

"PCB" REFERS TO "PORTABLE CONCRETE BARRIER"
"OMUTCD" REFERS TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
"SCD" REFERS TO "STANDARD CONSTRUCTION DRAWING"
"CMS" REFERS TO "CONSTRUCTION AND MATERIAL SPECIFICATION" ODOT, CURRENT EDITION.
"MOT" REFERS TO "MAINTENANCE OF TRAFFIC"

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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

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

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

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

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

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

CUL TURAL RESOURCE SENSITIVE EXCAVATION AREA

ODOT SHALL MONITOR THE ENVIRONMENTALLY SENSITIVE RESOURCE DURING CONSTRUCTION TO RECORD AND RECOVER ANY ARCHAEOLOGICAL MATERIAL THAT MIGHT BE UNCOVERED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE PROPOSED CONSTRUCTION SCHEDULE A MINIMUM OF 30 DAYS PRIOR TO ANY WORK PERFORMED BETWEEN STA 234+19 TO STA 237+74. THE ENGINEER WILL CONTACT THE DISTRICT ENVIRONMENTAL COORDINATOR, WHO WILL NOTIFY ODOT'S OFFICE OF ENVIRONMENTAL SERVICES (OES) SO THAT THE OES STAFF CAN BE PRESENT. NO EXCAVATION WORK IS ALLOWED WITHOUT THE PRESENCE OF OES STAFF UNLESS THE CONTRACTOR RECEIVES A WRITTEN WAIVER FROM OES.

WATERWAY RESTRICTIONS

THE CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN THE JURISDICTIONAL BOUNDARIES OF ANY WATERWAY, INCLUDING WETLANDS, UNTIL GREAT PARKS OBTAINS THE NECESSARY WATERWAY PERMIT(S). THIS INCLUDES THE PLACEMENT OF ANY TEMPORARY OR PERMANENT FILLS.

GREAT PARKS OF HAMILTON COUNTY WILL ADHERE TO ALL APPROPRIATE WATERWAY PERMIT CONDITIONS THROUGHOUT CONSTRUCTION.

NO IN-STREAM WORK UNTIL WATERWAY PERMIT IS OBTAINED

THE CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN THE JURISDICTIONAL BOUNDARIES OF ANY WATERWAY, INCLUDING WETLANDS, UNTIL ODOT OBTAINS THE NECESSARY WATERWAY PERMIT(S). THIS INCLUDES THE PLACEMENT OF ANY TEMPORARY OR PERMANENT FILLS. THE WATERWAY PERMIT IS EXPECTED TO BE OBTAINED BY SEPTEMBER 1, 2025.

ITEM 202 - GATE REMOVED, AS PER PLAN

ALL ABOVE GROUND PORTIONS OF THE GATE INCLUDING THE GATE, POSTS, AND RECEIVING POSTS SHALL BE REMOVED IN THEIR ENTIRETY. LOCKS SHALL NOT BE DAMAGED AND SHALL BE RETURNED TO GREAT PARKS FOR USE ON NEW GATE. POST FOUNDATIONS SHALL BE REMOVED TO THE EXTENT REQUIRED TO COMPLETE THE WORK.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - GATE REMOVED, AS PER PLAN.

ITEM 202 - FENCE REMOVED, AS PER PLAN

LIMITS OF FENCE REMOVAL TO BE APPROVED BY THE ENGINEER ON SITE. REMOVE FENCE TO THE NEAREST POST UNLESS OTHERWISE DIRECTED. REMAINING FENCE TO BE A MINIMUM OF 5' FROM THE EDGE OF TRAIL.

ALL ABOVE GROUND PORTIONS OF THE FENCE INCLUDING FENCE AND POSTS SHALL BE REMOVED IN THEIR ENTIRETY. POST FOUNDATIONS SHALL BE REMOVED TO THE EXTENT REQUIRED TO COMPLETE THE WORK.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - FENCE REMOVED, AS PER PLAN.

ITEM 202 - REMOVAL MISC: MODULAR BLOCK LANDSCAPING WALL

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE MODULAR BLOCK LANDSCAPING WALL AND ASSOCIATED LANDSCAPING IN ITS ENTIRETY. CONTRACTOR TO PROTECT NEARBY TREE AND FENCING.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: MODULAR BLOCK LANDSCAPING WALL

ITEM 202 - REMOVAL MISC: BAT BOX

THIS ITEM SHALL INCLUDE THE REMOVAL OF AN EXISTING BAT BOX. BAT BOX REMOVAL SHALL BE LIMITED TO THE DATES LISTED IN THE BAT HABITAT REMOVAL NOTE ON SHEET 17.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: BAT BOX

ITEM 202 - REMOVAL MISC: BOUNDARY MARKER

THIS ITEM SHALL INCLUDE THE REMOVAL OF AN EXISTING BOUNDARY MARKER TO THE EXTENT REQUIRED TO COMPLETE WORK.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: BOUNDARY MARKER

ITEM 202 - REMOVAL MISC: PET WASTE STATION

THIS ITEM SHALL INCLUDE THE REMOVAL OF AN EXISTING PET WASTE STATION. SALVAGE OR DISPOSE OF THE WASTE STATION PER THE DIRECTION OF THE FIELDSTONE APARTMENTS MANAGER.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: PET WASTE STATION

ITEM 202 - REMOVAL MISC: REFLECTOR POST

THIS ITEM SHALL INCLUDE THE REMOVAL OF AN EXISTING REFLECTOR POST TO THE EXTENT REQUIRED TO COMPLETE WORK.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: REFLECTOR POST

ITEM 607, FENCE, MISC.: WOOD FENCE (RM-5.2)

THIS ITEM SHALL CONSIST OF CONSTRUCTING A WOOD BIKEWAY RAILING ACCORDING TO STANDARD CONSTRUCTION DRAWING RM-5.2 AT THE LOCATIONS SPECIFIED ON THE PLANS.

ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 607, FENCE, MISC.: WOOD FENCE.

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

THIS WORK SHALL CONSIST OF FULL DEPTH ASPHALT PAVEMENT REPLACEMENT. PROVIDE FULL DEPTH SAWCUT AND PAVEMENT REMOVAL TO THE LIMITS SHOWN IN THE PLANS. THE PROPOSED ASPHALT PAVEMENT SECTION SHALL MATCH SECTION PROVIDED BELOW OR THE EXISTING ROADWAY SECTION. WHICHEVER HAS THE HIGHER CBR.

ITEM 441 - 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
ITEM 441 - 1 ½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
ITEM 407 - TACK COAT (APPLIED @0.6 GAL/SQYD)
ITEM 301 - 9" ASPHALT CONCRETE BASE, (449), PG64-22
ITEM 304 - 6" AGGREGATE BASE
ITEM 206 - CEMENT STABILIZED SUBGRADE, 14" DEEP

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 253 - PAVEMENT REPAIR, AS PER PLAN.

4f NOTES

GLENVIEW GOLF COURSE
TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS WITHIN GLENVIEW GOLF COURSE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE EXISTING SECTION 4(F) PROPERTY AND THE PUBLIC.

APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF GLENVIEW GOLF COURSE OF CONSTRUCTION ACTIVITIES, ACCESS RESTRICTIONS OR CLOSURES, AND TO DIRECT USERS TO SECONDARY ACCESS POINTS.

THE CONTRACTOR SHALL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH THE CINCINNATI RECREATION COMMISSION, KLINT LADD SUPERINTENDENT 513-3771-1747, PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

WINTON WOODS AND GLENWOOD GARDENS
APPROPRIATE SIGNAGE WILL BE INSTALLED TO ALERT USERS OF WINTON WOODS AND GLENWOOD GARDENS OF CONSTRUCTION ACTIVITIES, IF IN PROXIMITY TO RECREATIONAL FACILITIES OR FEATURES.

THE CONTRACTOR WILL CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH GREAT PARKS OF HAMILTON COUNTY PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

ACCESS TO WINTON WOODS AND GLENWOOD GARDENS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.

TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION WHERE THE GLENWOOD GARDENS & WINTON WOODS PARK USERS AND THE PUBLIC MAY BE NEARBY TO PREVENT THEM FROM ACCIDENTALLY ENTERING THE CONSTRUCTION AREA.

INSTREAM WORK RESTRICTIONS
THE CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN THE JURISDICTIONAL BOUNDARIES OF ANY WATERWAY, INCLUDING WETLANDS, UNTIL GREAT PARKS OBTAINS THE NECESSARY WATERWAY PERMIT(S). THIS INCLUDES THE PLACEMENT OF ANY TEMPORARY OR PERMANENT FILLS.

AIRWAY/HIGHWAY CLEARANCE FOR PUBLIC AIRPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF ZERO (0) PRIVATE USE AIRPORTS AND ONE (1) PRIVATE HELIPORT LISTED IN THE TABLE BELOW.

POTENTIALLY IMPACTED AIRPORTS	AIRPORT ELEVATION "A"	PROJECT ELEVATION "B" + 25 feet (Controlling Criteria)	DISTANCE BETWEEN AIRPORT & PROJECT "C"	NOTIFICATION SLOPE X:1	USE TYPE	AMOUNT OF CLEARANCE ABOVE NOTIFICATION SLOPE "Z"
VALLEY ASPHALT HELIPORT "A"	580 ft.	623' + 25' = 648 ft.	15307 ft.	25:01	PRIVATE	545'

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT, AT MAXIMUM OPERATING HEIGHT, SHALL EXCEED THE HEIGHTS (Z) PROVIDED IN THE TABLE ABOVE. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, COORDINATION WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS, COORDINATION SHALL BE WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

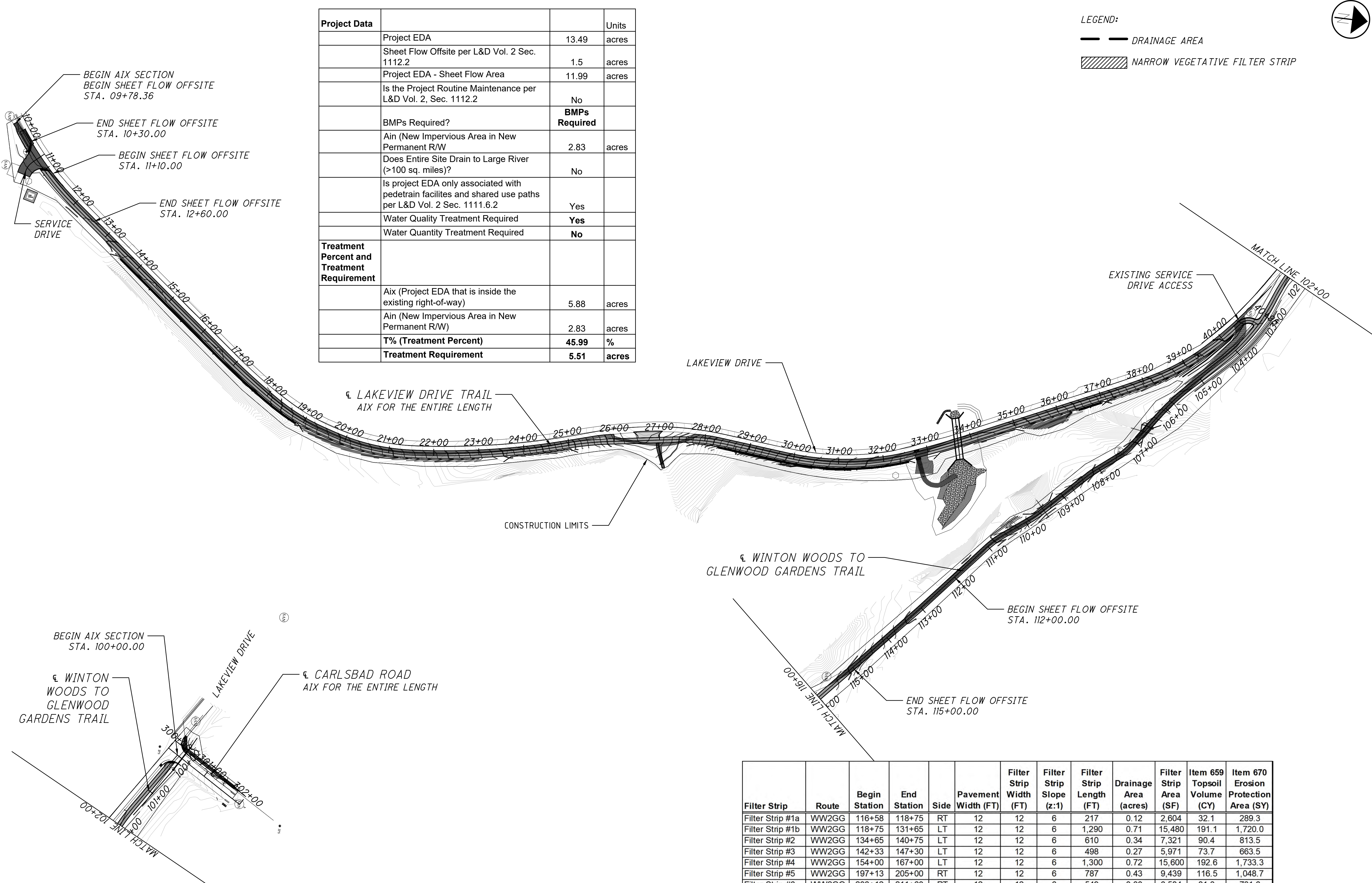
FAA CONTACT INFORMATION:
EXPRESS PROCESSING CENTER
THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
AIR TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAN BLVD.
FORT WORTH, TX 76137-4298

ODOT OFFICE OF AVIATION CONTACT INFORMATION:
OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
(614)-387-2346

GENERAL NOTES

DESIGN AGENCY
KZF DESIGN
Designing Better Futures
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	117016
SHEET	P.18
TOTAL	298

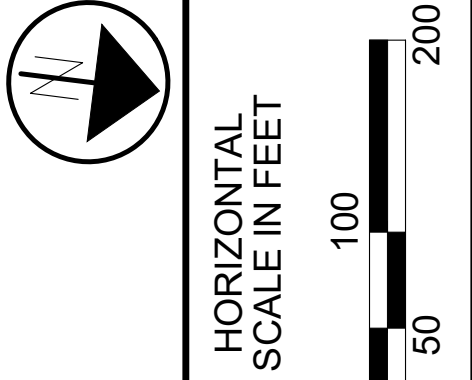


Project Data			Units
	Project EDA	13.49	acres
	Sheet Flow Offsite per L&D Vol. 2 Sec. 1112.2	1.5	acres
	Project EDA - Sheet Flow Area	11.99	acres
	Is the Project Routine Maintenance per L&D Vol. 2, Sec. 1112.2	No	
	BMPs Required?	BMPs Required	
	Ain (New Impervious Area in New Permanent R/W)	2.83	acres
	Does Entire Site Drain to Large River (>100 sq. miles)?	No	
	Is project EDA only associated with pedetrain facilities and shared use paths per L&D Vol. 2 Sec. 1111.6.2	Yes	
	Water Quality Treatment Required	Yes	
	Water Quantity Treatment Required	No	
Treatment Percent and Treatment Requirement			
	Aix (Project EDA that is inside the existing right-of-way)	5.88	acres
	Ain (New Impervious Area in New Permanent R/W)	2.83	acres
	T% (Treatment Percent)	45.99	%
	Treatment Requirement	5.51	acres

LEGEND:

— DRAINAGE AREA

▨ NARROW VEGETATIVE FILTER STRIP



Filter Strip	Route	Begin Station	End Station	Side	Pavement Width (FT)	Filter Strip Width (FT)	Filter Strip Slope (z:1)	Filter Strip Length (FT)	Drainage Area (acres)	Filter Strip Area (SF)	Item 659 Topsoil Volume (CY)	Item 670 Erosion Protection Area (SY)
Filter Strip #1a	WW2GG	116+58	118+75	RT	12	12	6	217	0.12	2,604	32.1	289.3
Filter Strip #1b	WW2GG	118+75	131+65	LT	12	12	6	1,290	0.71	15,480	191.1	1,720.0
Filter Strip #2	WW2GG	134+65	140+75	LT	12	12	6	610	0.34	7,321	90.4	813.5
Filter Strip #3	WW2GG	142+33	147+30	LT	12	12	6	498	0.27	5,971	73.7	663.5
Filter Strip #4	WW2GG	154+00	167+00	LT	12	12	6	1,300	0.72	15,600	192.6	1,733.3
Filter Strip #5	WW2GG	197+13	205+00	RT	12	12	6	787	0.43	9,439	116.5	1,048.7
Filter Strip #6	WW2GG	206+12	211+60	RT	12	12	6	549	0.30	6,584	81.3	731.6
Filter Strip #7	WW2GG	219+45	224+50	RT	12	12	6	506	0.28	6,069	74.9	674.3
Filter Strip #8	WW2GG	225+95	228+22	RT	12	12	6	227	0.12	2,719	33.6	302.1
Filter Strip #9	Fieldstone	50+79	54+23	LT	12	12	6	343	0.19	4,121	50.9	457.8

TOTAL TREATMENT CREDIT EARNED FROM NARROW VEGETATED FILTER STRIPS 3.49 ACRES

PROJECT SITE PLAN - LAKEVEIW DRIVE TRAIL,
CARLSBAD WALK, WW TO GG TRAIL STA. 100+00 TO STA. 116+00

DESIGN AGENCY

KZF DESIGN
Designing Better Futures

700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER

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REVIEWER

SCR 7/17/2024

PROJECT ID

117016

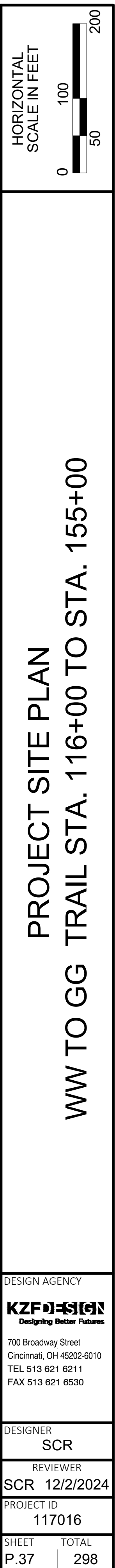
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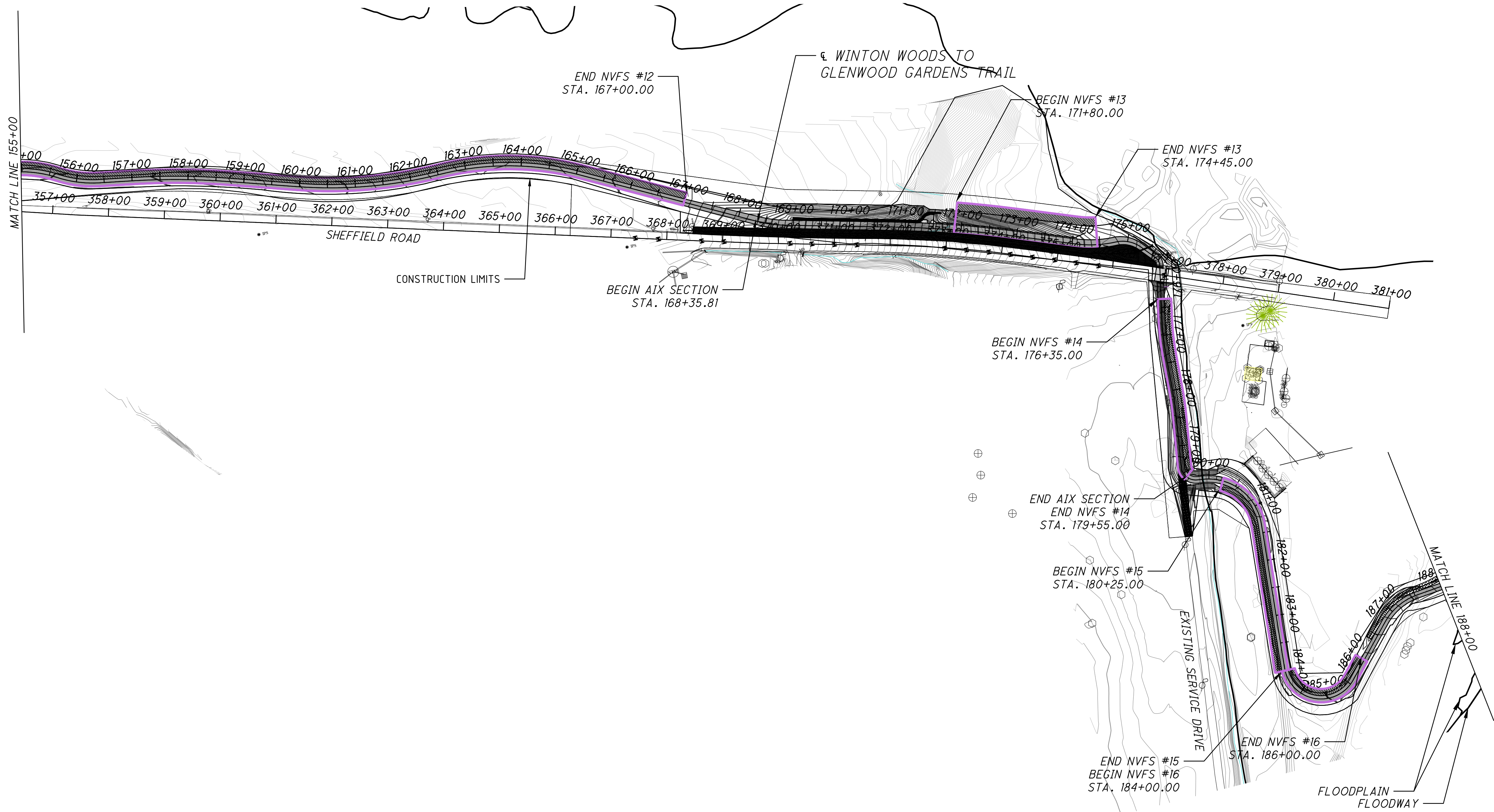
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TOTAL

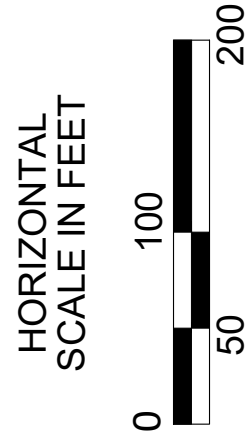
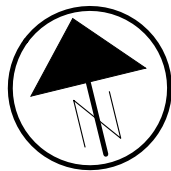
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LEGEND:
— DRAINAGE AREA
▨ NARROW VEGETATIVE FILTER STRIP



PROJECT SITE PLAN
WW TO GG TRAIL STA. 155+00 TO STA. 188+00

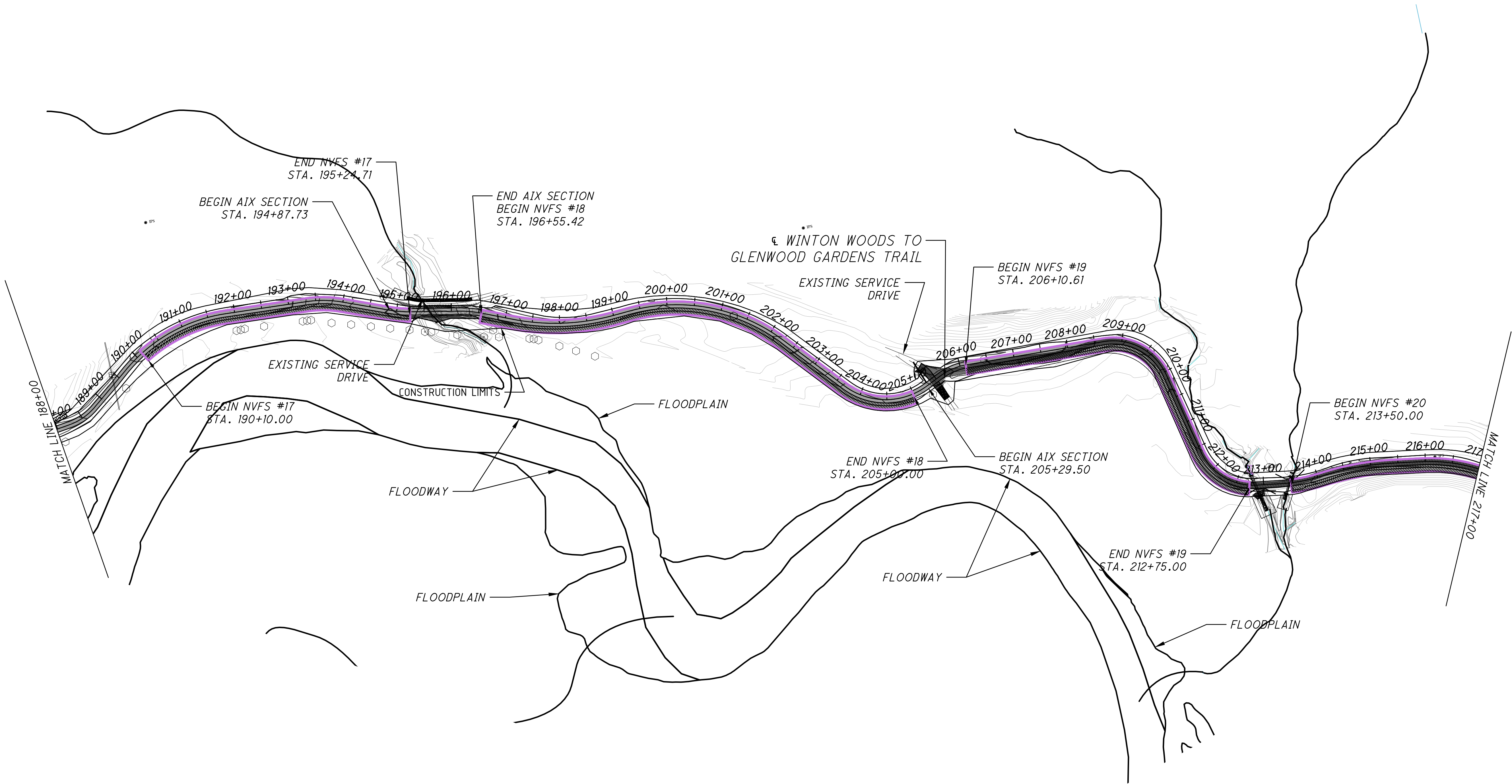
DESIGN AGENCY
KZF DESIGN
Designing Better Futures
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER
SCR

REVIEWER
SCR 12/2/2024

PROJECT ID
117016

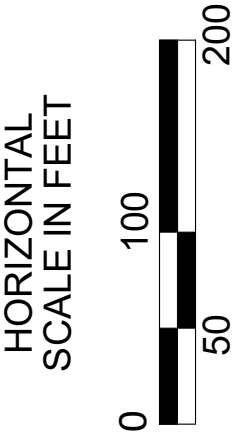
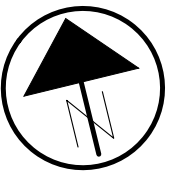
SHEET	TOTAL
P.38	298



LEGEND:

— DRAINAGE AREA

▨ NARROW VEGETATIVE FILTER STRIP



PROJECT SITE PLAN

WW TO GG TRAIL STA. 188+00 TO STA. 217+00

DESIGN AGENCY

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Cincinnati, OH 45202-6010
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DESIGNER

SCR

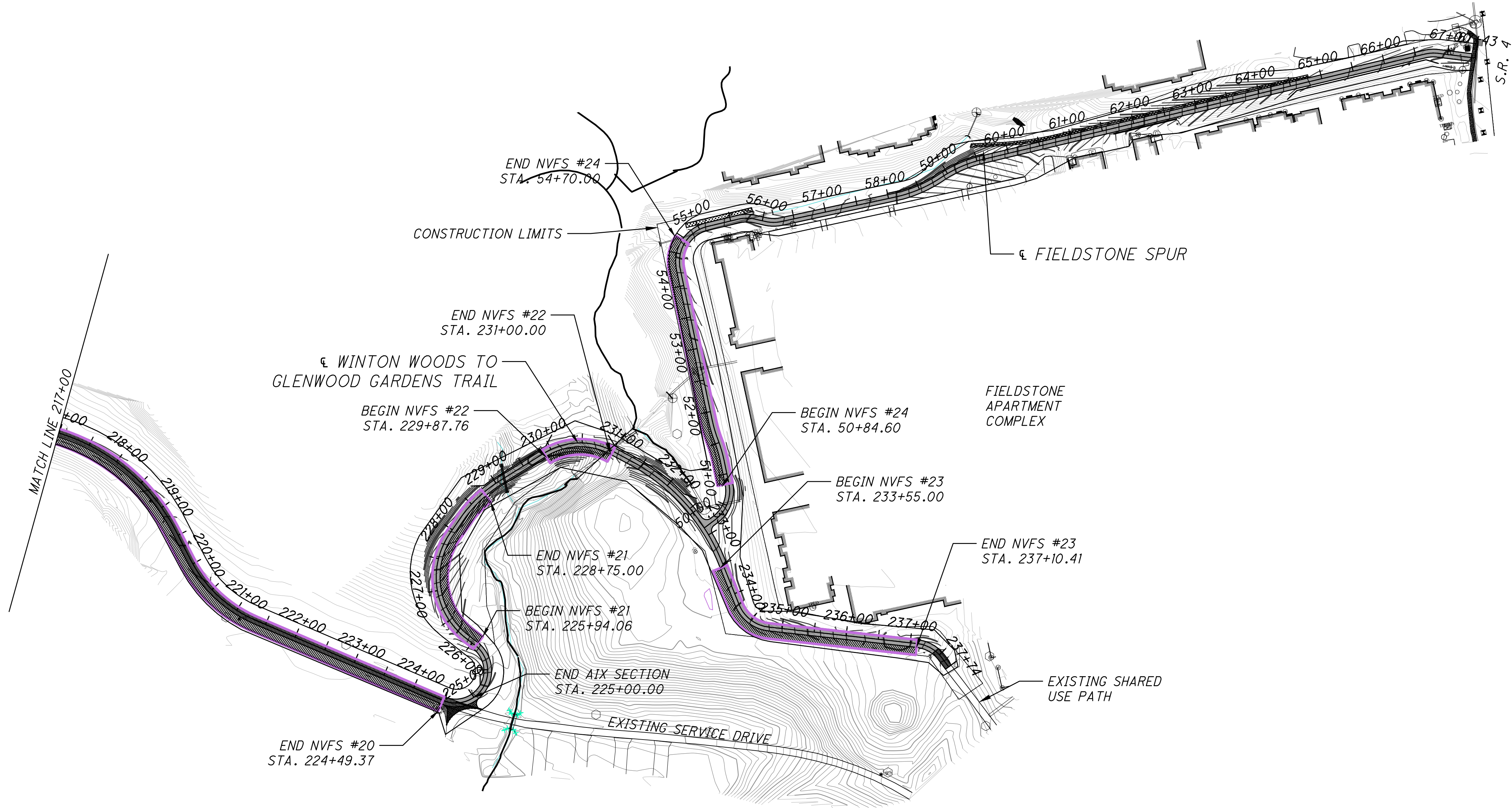
REVIEWER

SCR 12/2/2024

PROJECT ID

117016

SHEET	TOTAL
P.39	298



PROJECT SITE PLAN
WW TO GG TRAIL FROM STA. 217+00, FIELDSTONE SPUR

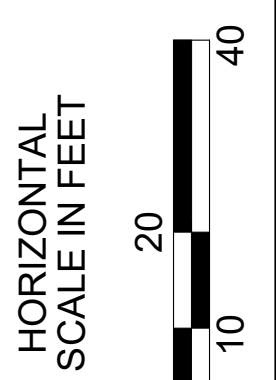
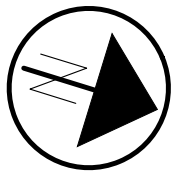
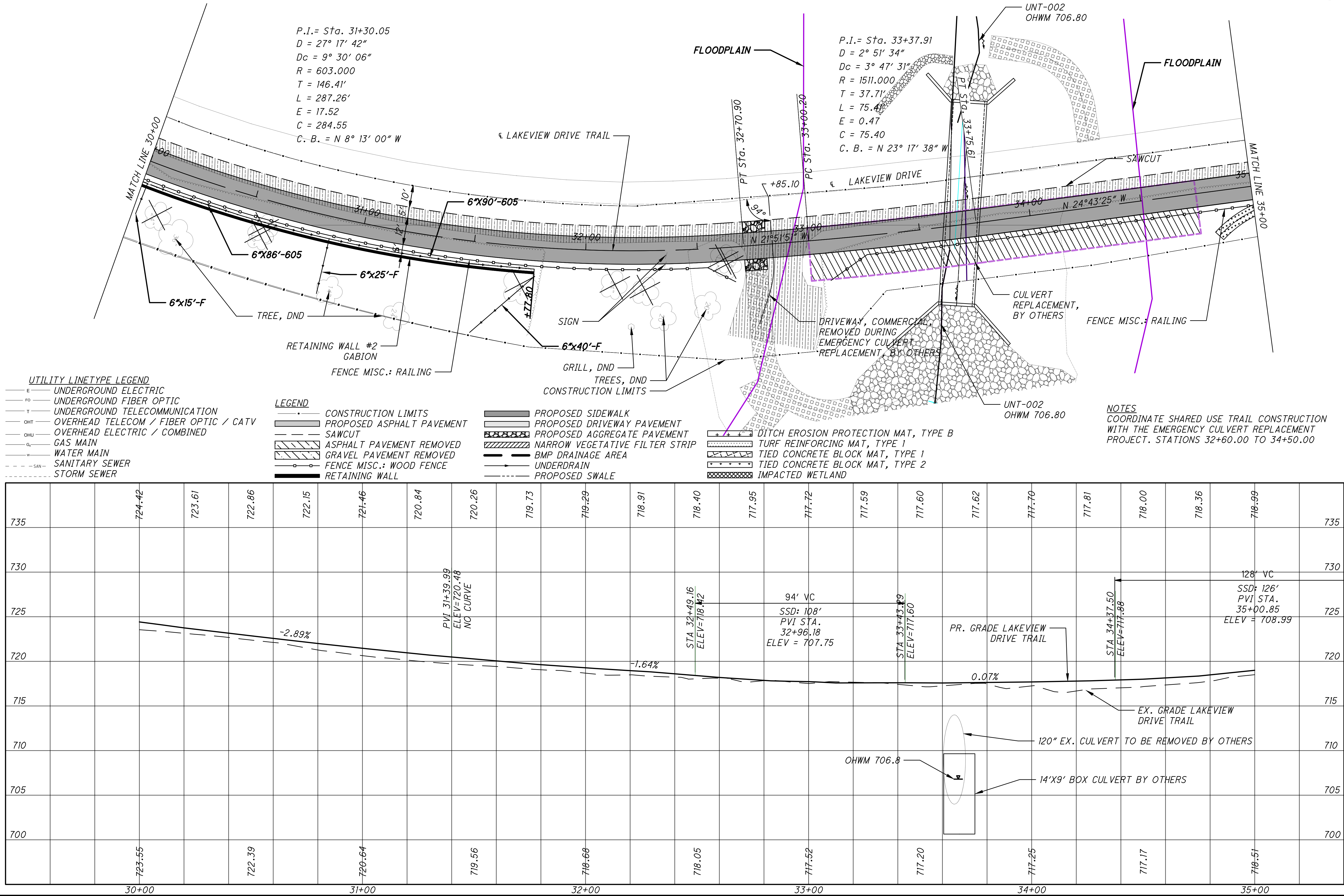
DESIGN AGENCY
KZF DESIGN
Designing Better Futures
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

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SCR 12/2/2024

PROJECT ID
117016

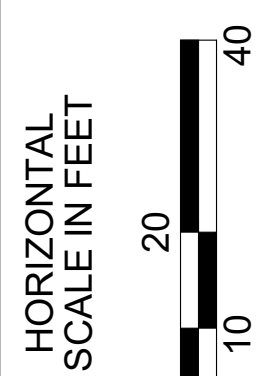
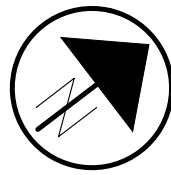
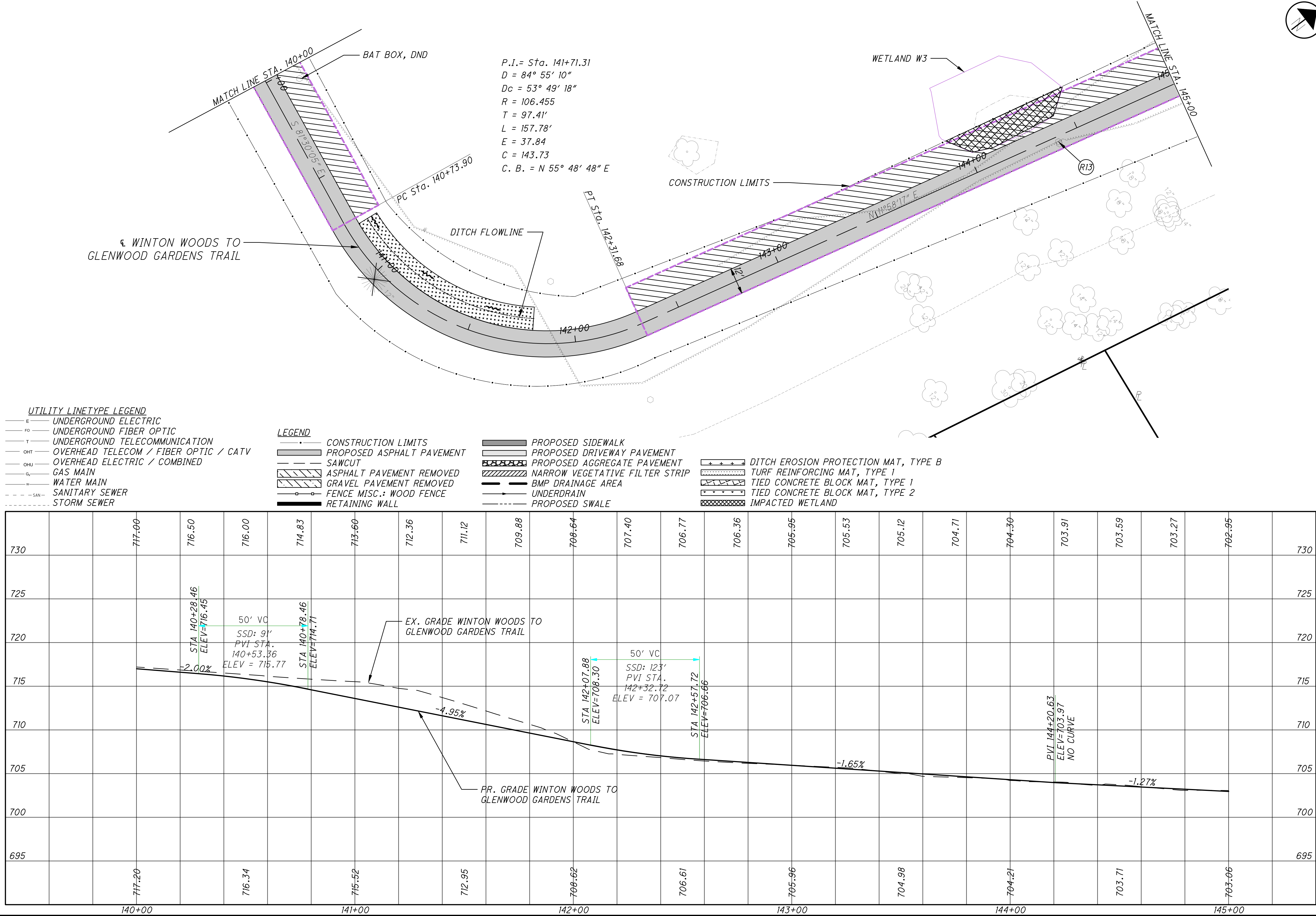
SHEET TOTAL
P.40 298



PLAN AND PROFILE - LAKEVIEW DRIVE
STA. 30+00.00 TO STA. 35+00.00

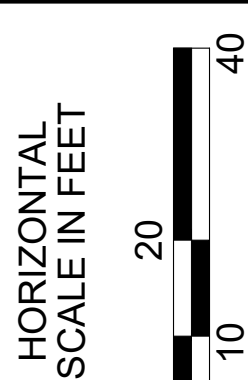
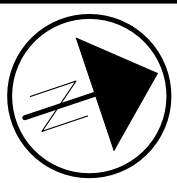
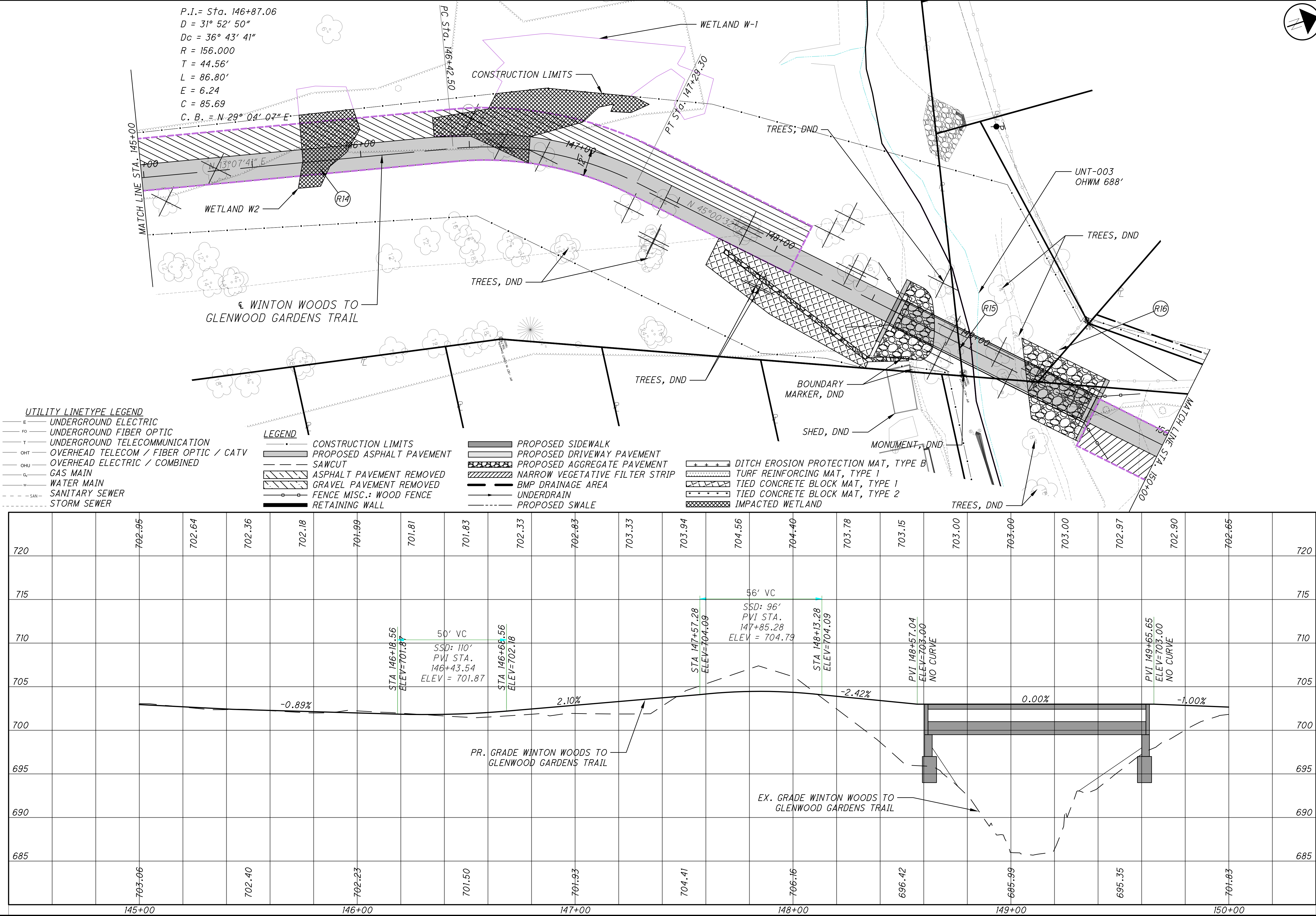
DESIGN AGENCY
KZF DESIGN
Designing Better Futures
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER
SCR
REVIEWER
SCR 1/30/2025
PROJECT ID
117016
SHEET
P.45 TOTAL
298



HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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PLAN AND PROFILE - WW TO GG
STA. 145+00.00 TO STA. 150+00.00

DESIGN AGENCY
KZF
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
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DESIGNER
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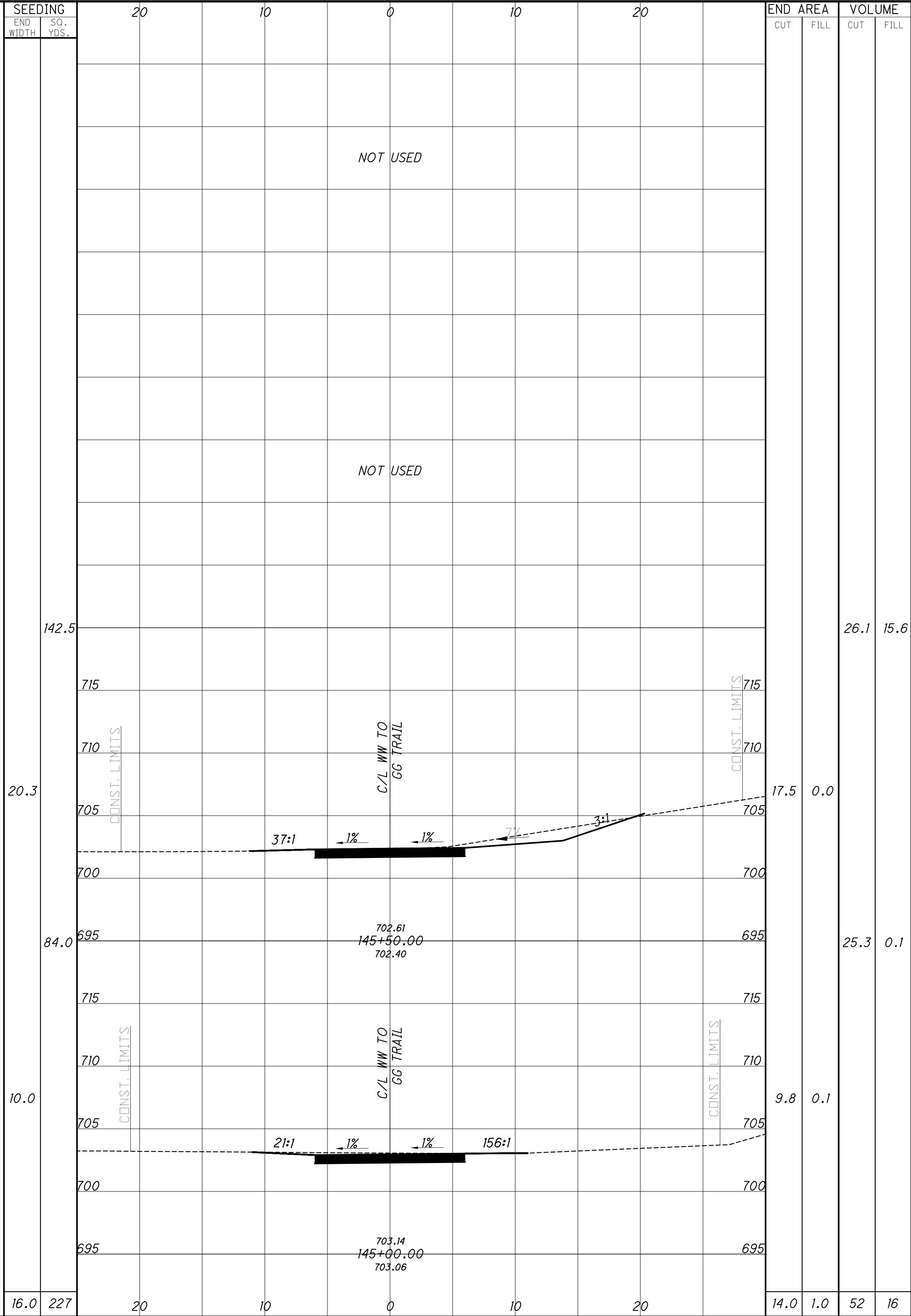
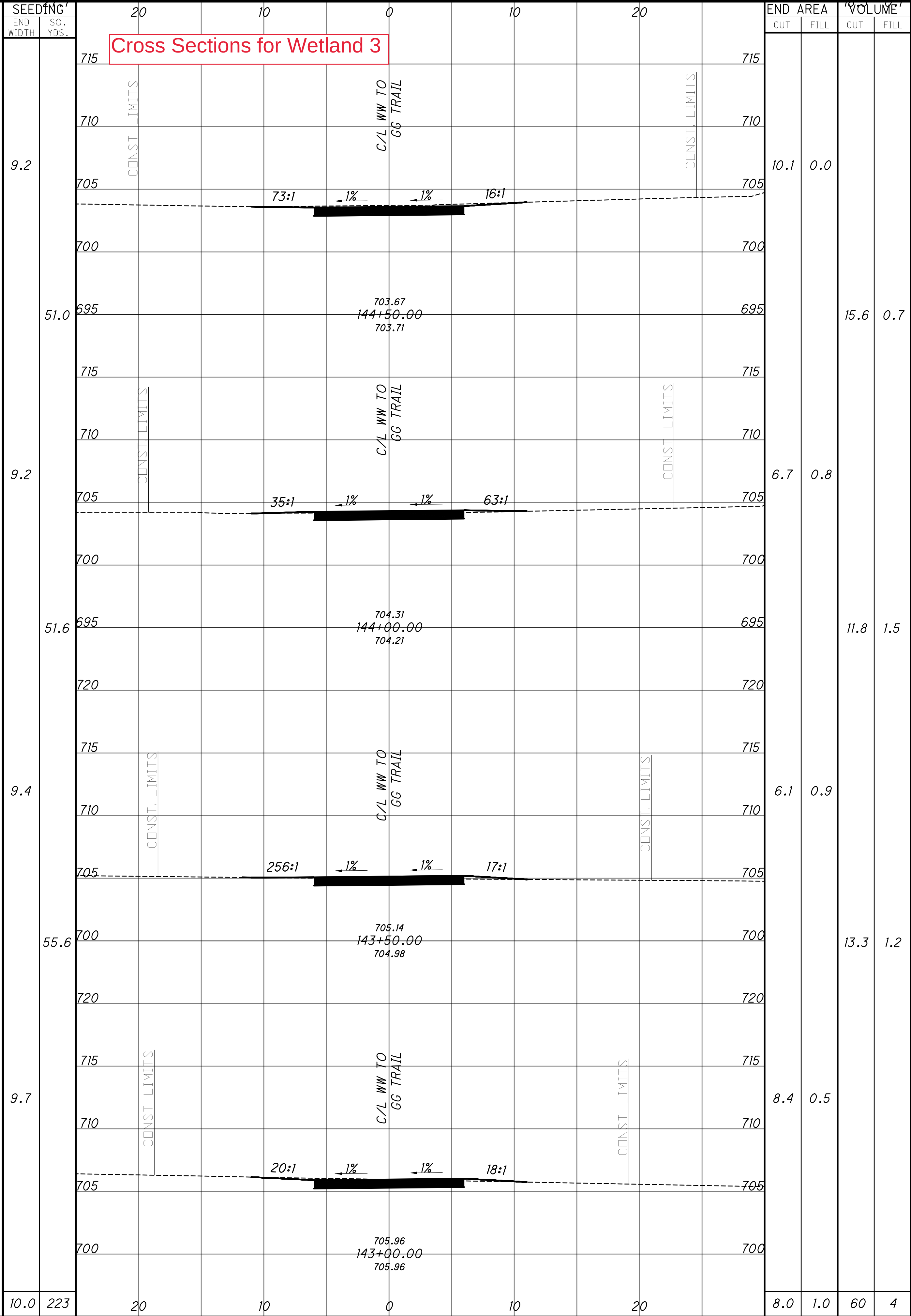
REVIEWER
SCR 1/29/2025

PROJECT ID
117016

SHEET TOTAL
P.57 298

HAM-WINTON WOODS TO GLENWOOD GARDENS

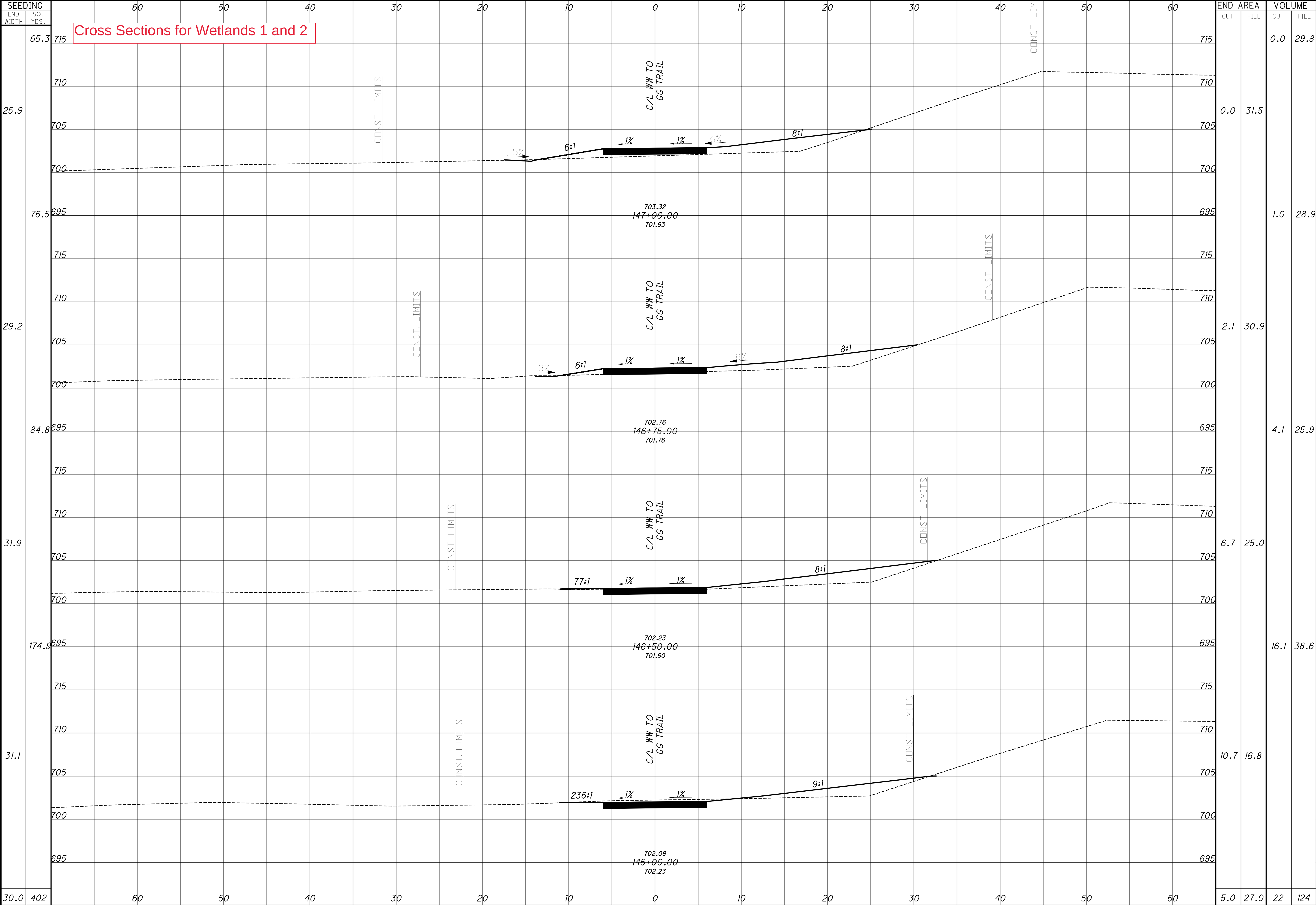
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CROSS SECTIONS - WW TO GG
STA. 143+00.00 TO STA. 145+50.00

DESIGN AGENCY
KZF DESIGN
Designing Better Futures
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER
SCR
REVIEWER
SCR 7/22/2024
PROJECT ID
117016
SHEET
P.115
TOTAL
298



CROSS SECTIONS - WW TO GG
STA. 146+00.00 TO STA. 147+00.00

DESIGN AGENCY
KZF DESIGN
Designing Better Futures
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER
SCR

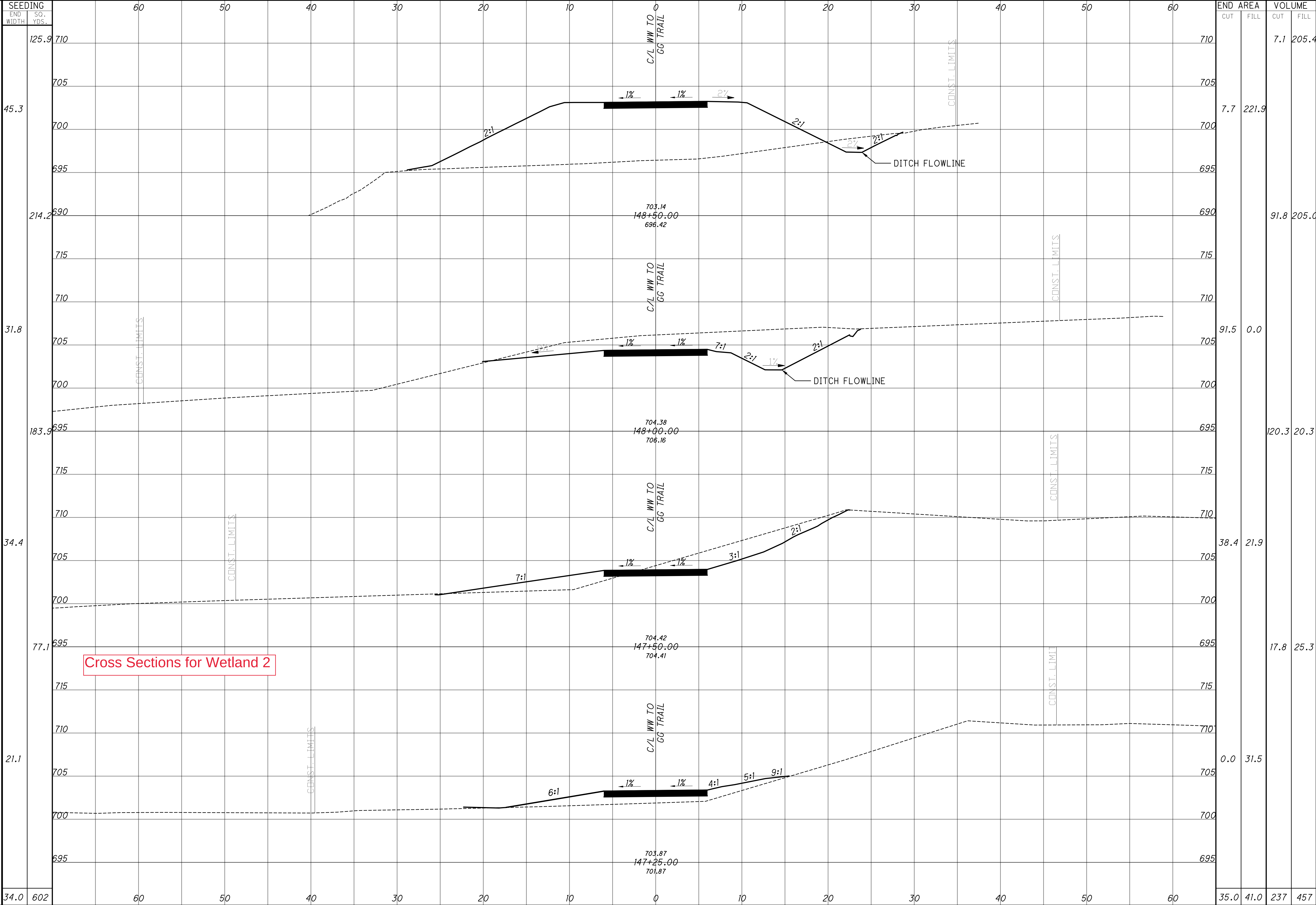
REVIEWER
SCR 7/22/2024

PROJECT ID
117016

SHEET TOTAL
P.116 298

HAM-WINTON WOODS TO GLENWOOD GARDENS

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CROSS SECTIONS - WW TO GG
STA. 147+25.00 TO STA. 148+50.00

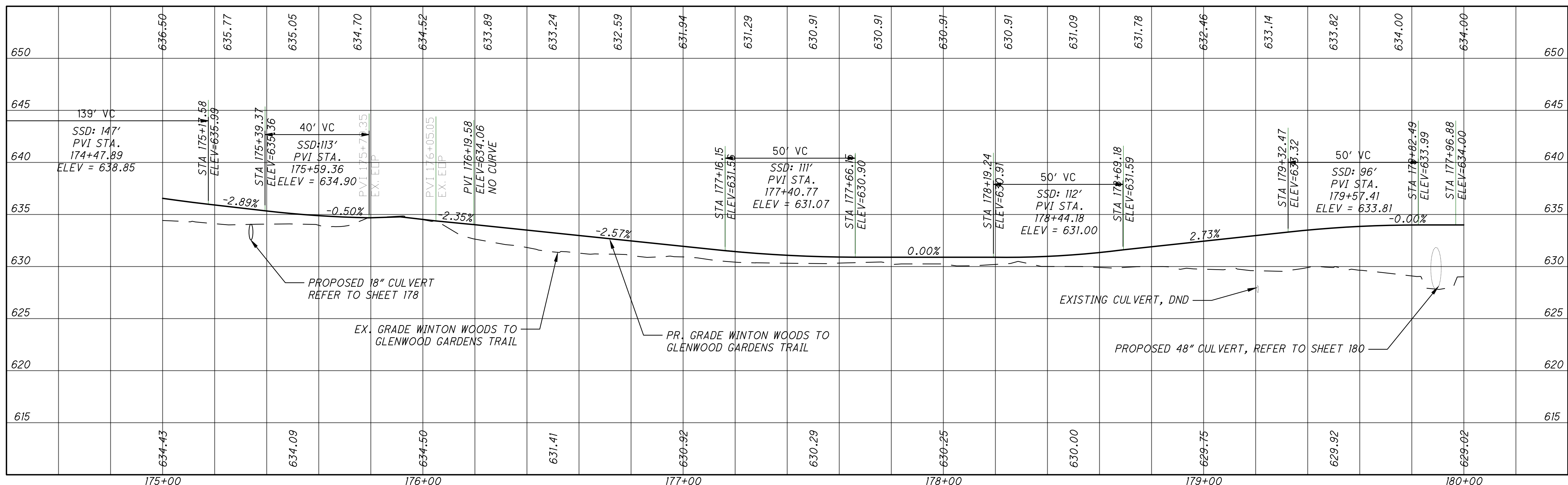
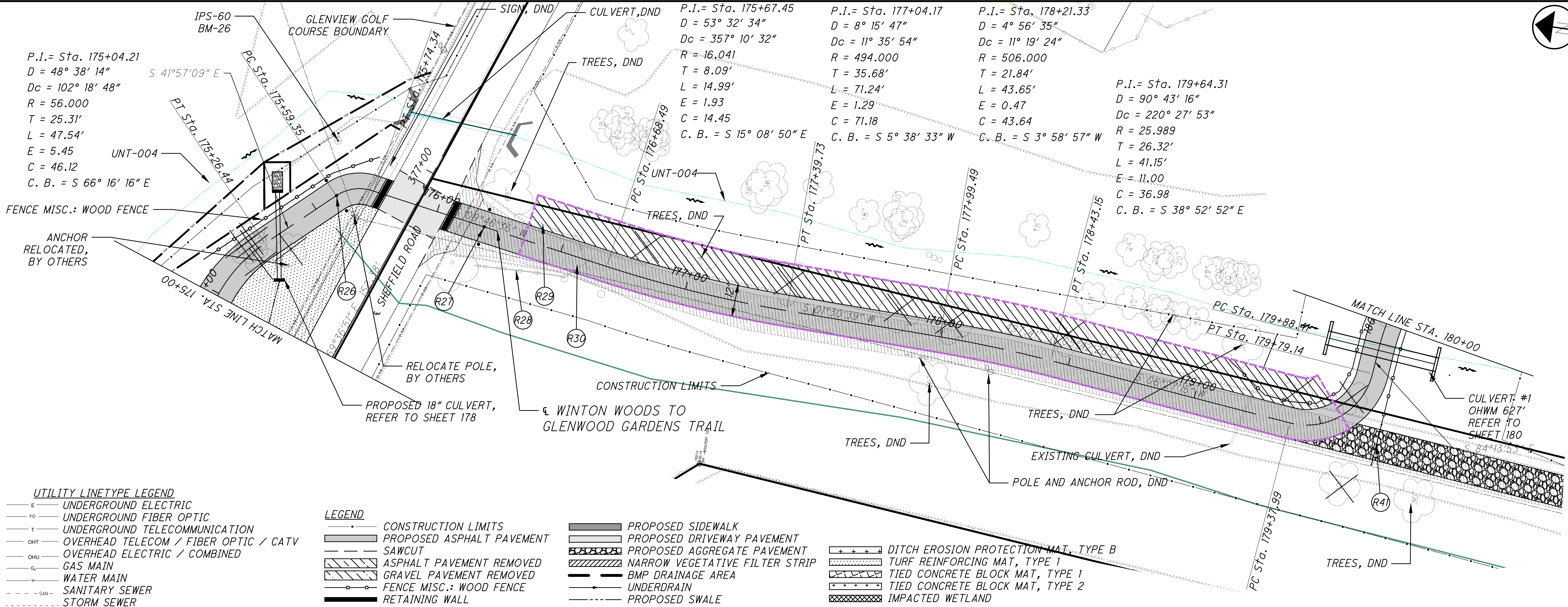
DESIGN AGENCY
KZF DESIGN
Designing Better Futures
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

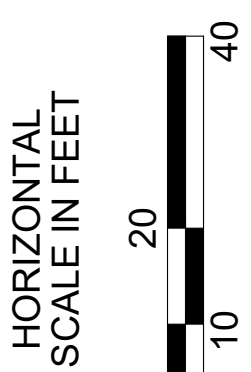
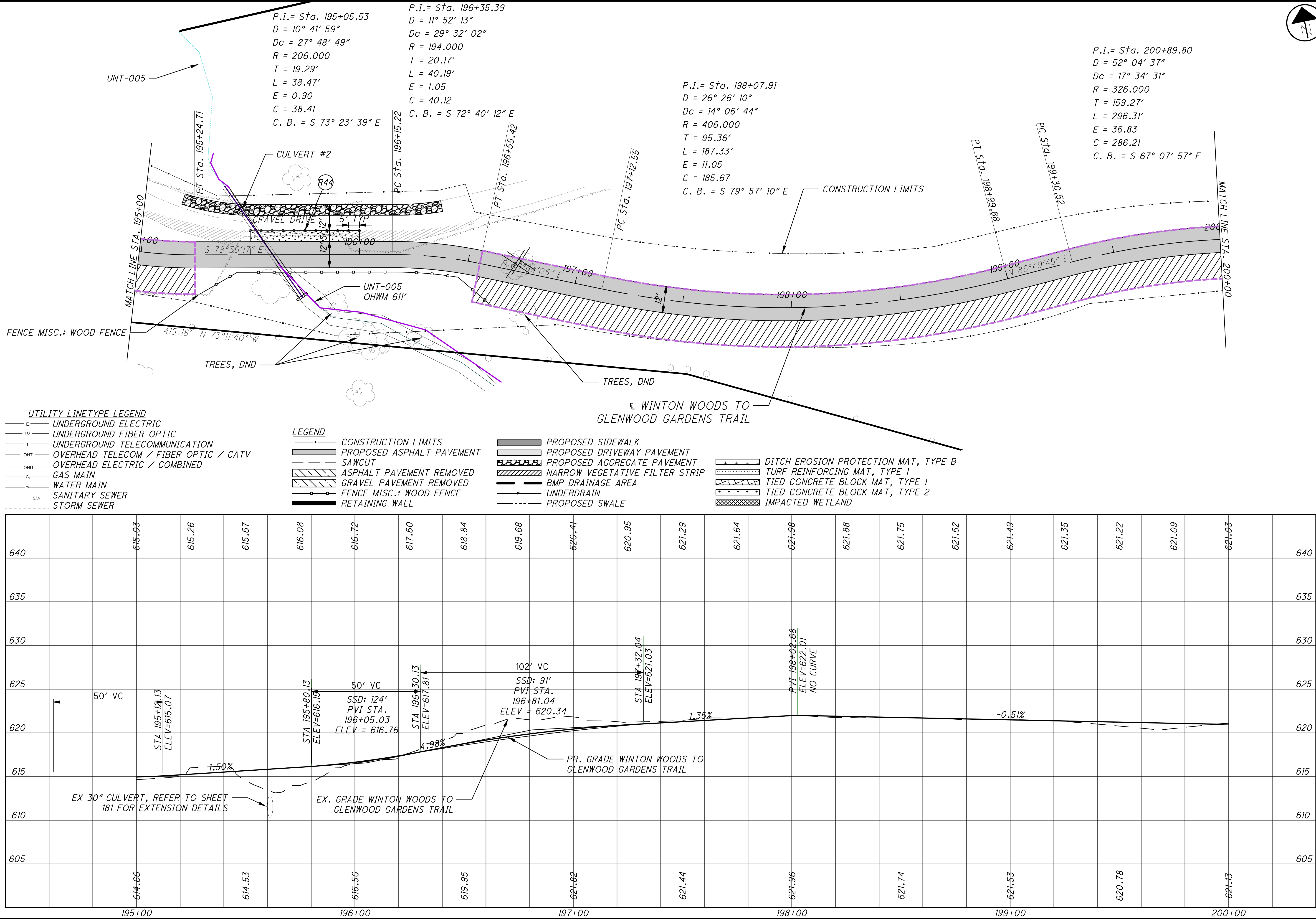
DESIGNER
SCR

REVIEWER
SCR 7/22/2024

PROJECT ID
117016

SHEET TOTAL
P.117 298





PLAN AND PROFILE - WW TO GG
STA. 195+00.00 TO STA. 200+00.00

DESIGN AGENCY
KZF
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER
SCR
REVIEWER
SCR 1/29/2025
PROJECT ID
117016
SHEET
P.67 TOTAL
298

- LEGEND**
- CONSTRUCTION LIMITS
 - PROPOSED ASPHALT PAVEMENT
 - SAWCUT
 - ASPHALT PAVEMENT REMOVED
 - GRAVEL PAVEMENT REMOVED
 - FENCE MISC.: WOOD FENCE
 - RETAINING WALL
 - PROPOSED SIDEWALK
 - PROPOSED DRIVEWAY PAVEMENT
 - PROPOSED AGGREGATE PAVEMENT
 - NARROW VEGETATIVE FILTER STRIP
 - BMP DRAINAGE AREA
 - UNDERDRAIN
 - PROPOSED SWALE
 - DITCH EROSION PROTECTION MAT, TYPE B
 - TURF REINFORCING MAT, TYPE 1
 - TIED CONCRETE BLOCK MAT, TYPE 1
 - TIED CONCRETE BLOCK MAT, TYPE 2
 - IMPACTED WETLAND

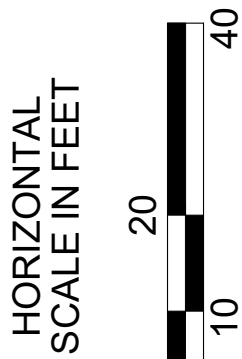
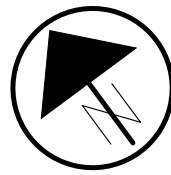
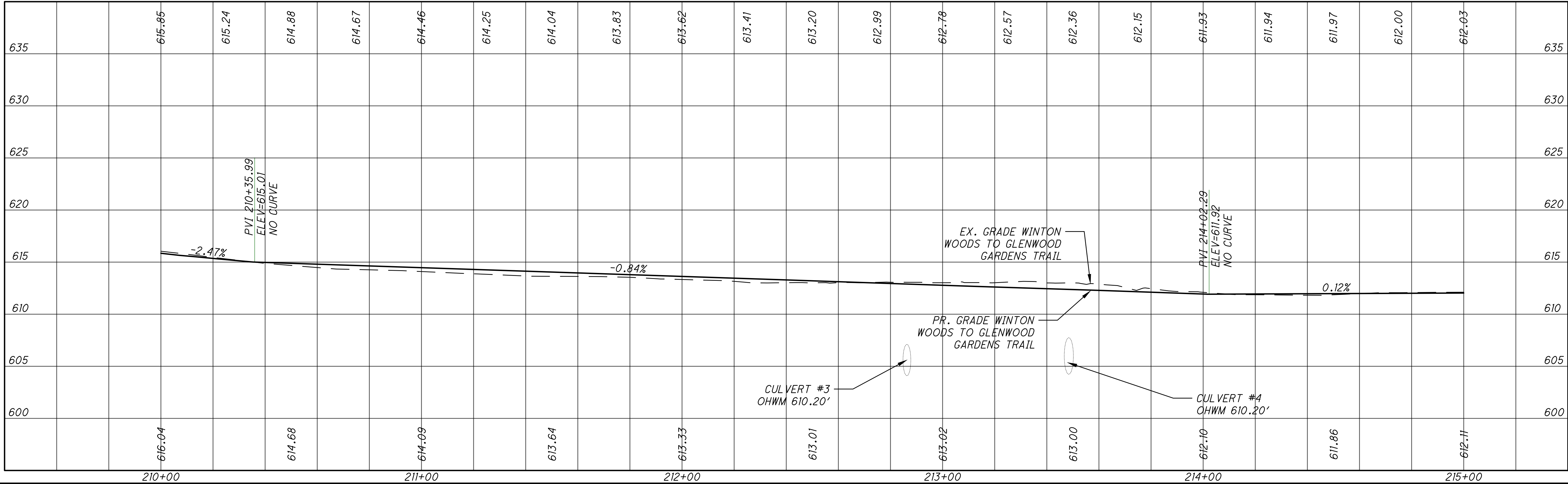
WINTON WOODS TO
GLENWOOD GARDENS TRAIL

P.I. = Sta. 212+32.49
D = 69° 14' 10"
Dc = 54° 03' 09"
R = 106.000
T = 73.17'
L = 128.09'
E = 22.80
C = 120.44
C. B. = S 46° 39' 56" E

P.I. = Sta. 213+70.57
D = 14° 17' 16"
Dc = 18° 43' 28"
R = 305.994
T = 38.35'
L = 76.31'
E = 2.39
C = 76.11
C. B. = S 88° 29' 41" E

P.I. = Sta. 214+74.38
D = 14° 49' 49"
Dc = 11° 19' 24"
R = 506.000
T = 65.85'
L = 130.97'
E = 4.27
C = 130.61
C. B. = S 88° 13' 23" E

- UTILITY LINETYPE LEGEND**
- E UNDERGROUND ELECTRIC
 - FO UNDERGROUND FIBER OPTIC
 - T UNDERGROUND TELECOMMUNICATION
 - OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
 - OHU OVERHEAD ELECTRIC / COMBINED
 - G₁ GAS MAIN
 - W WATER MAIN
 - SAN SANITARY SEWER
 - STORM SEWER



PLAN AND PROFILE - WW TO GG
STA. 210+00.00 TO STA. 215+00.00

DESIGN AGENCY
KZF
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER
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REVIEWER
SCR 2/25/2025

PROJECT ID
117016

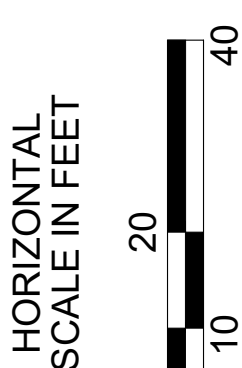
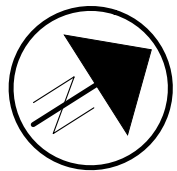
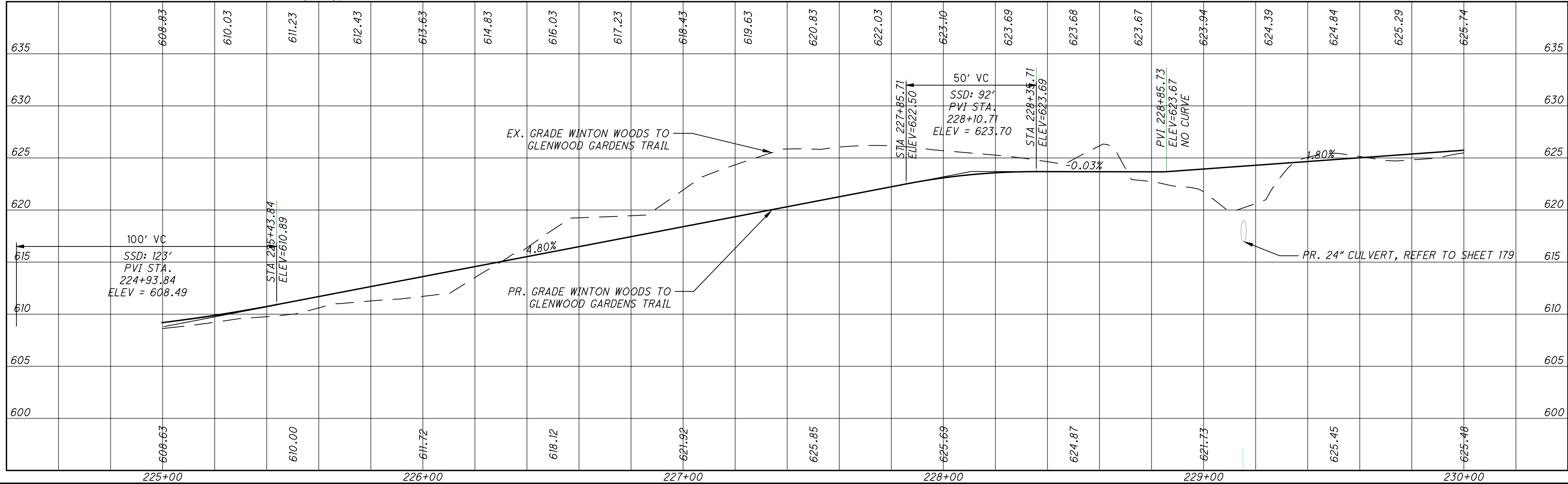
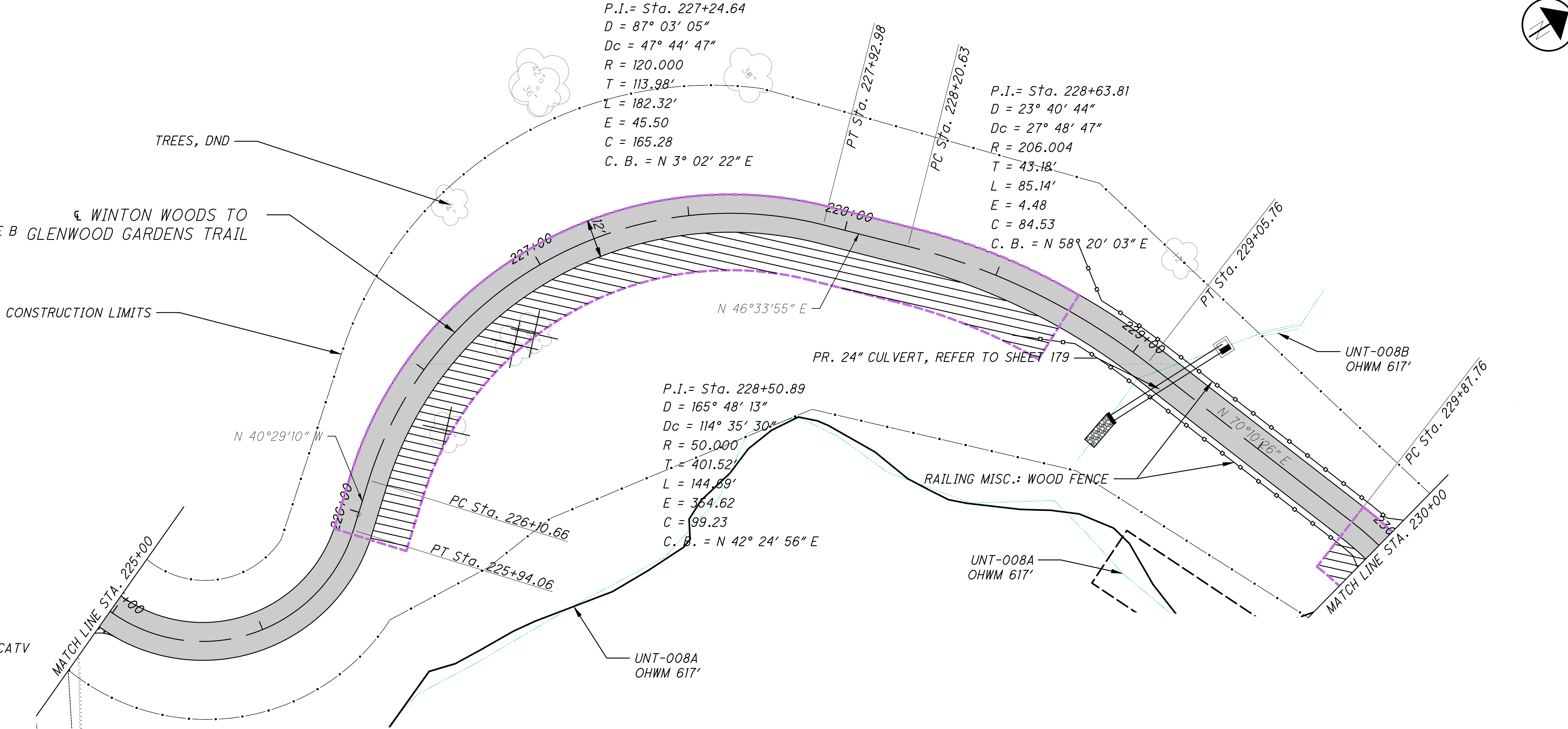
SHEET TOTAL
P.70 298

LEGEND

- CONSTRUCTION LIMITS
- PROPOSED ASPHALT PAVEMENT
- SAWCUT
- ASPHALT PAVEMENT REMOVED
- GRAVEL PAVEMENT REMOVED
- FENCE MISC.: WOOD FENCE
- RETAINING WALL
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY PAVEMENT
- PROPOSED AGGREGATE PAVEMENT
- NARROW VEGETATIVE FILTER STRIP
- BMP DRAINAGE AREA
- UNDERDRAIN
- PROPOSED SWALE
- DITCH EROSION PROTECTION MAT, TYPE B
- TURF REINFORCING MAT, TYPE 1
- TIED CONCRETE BLOCK MAT, TYPE 1
- TIED CONCRETE BLOCK MAT, TYPE 2
- IMPACTED WETLAND

UTILITY LINETYPE LEGEND

- E UNDERGROUND ELECTRIC
- FO UNDERGROUND FIBER OPTIC
- T UNDERGROUND TELECOMMUNICATION
- OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHU OVERHEAD ELECTRIC / COMBINED
- G GAS MAIN
- W WATER MAIN
- SAN SANITARY SEWER
- STORM SEWER



PLAN AND PROFILE - WW TO GG
STA. 225+00.00 TO STA. 230+00.00

DESIGN AGENCY
KZF DESIGN
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER
SCR

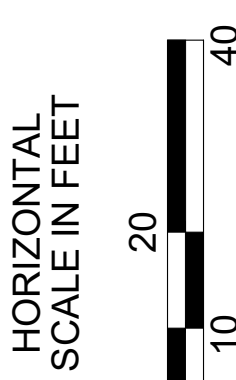
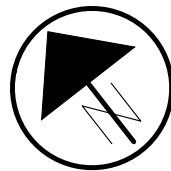
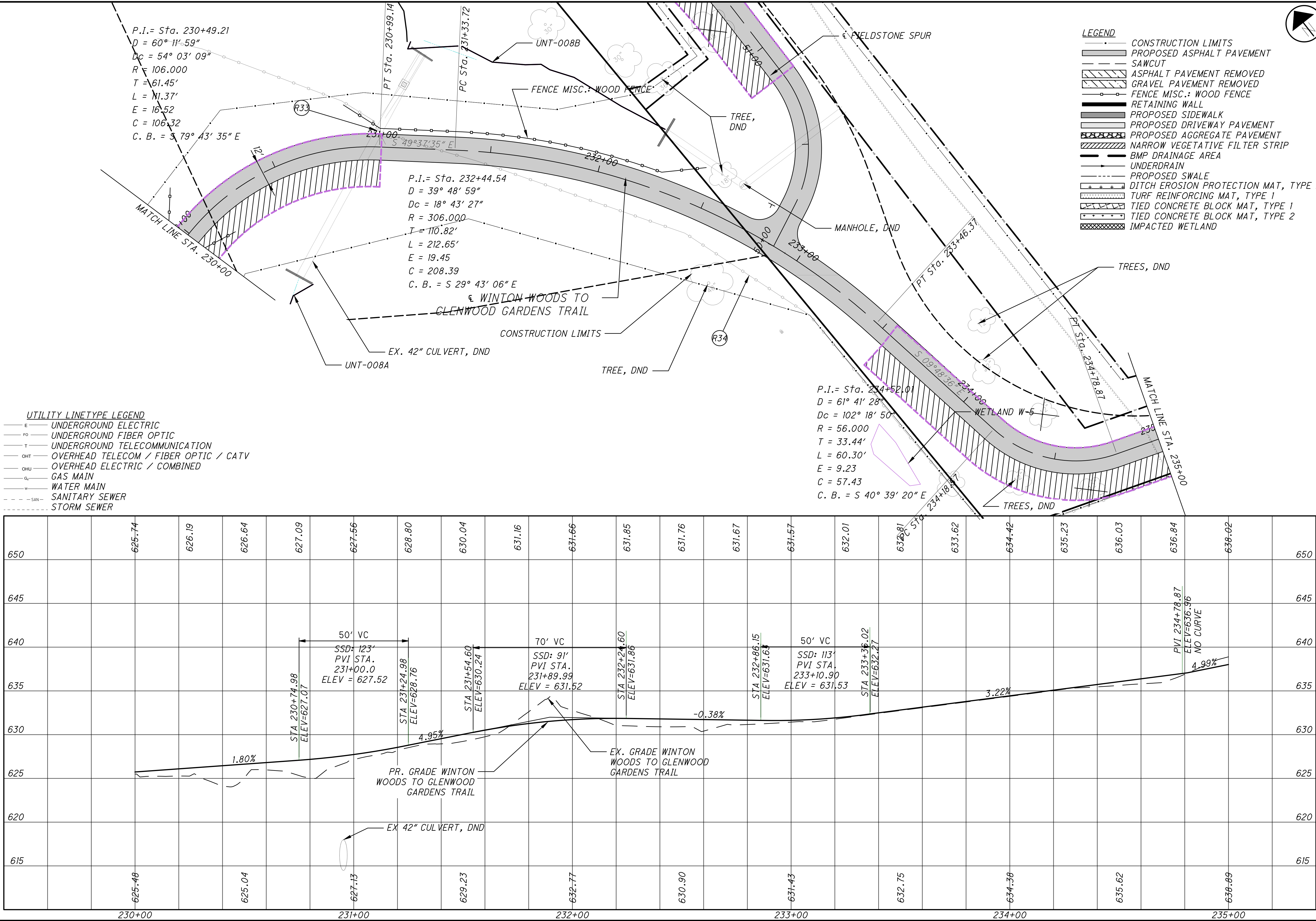
REVIEWER
SCR 1/29/2025

PROJECT ID
117016

SHEET TOTAL
P.73 298

HAM - WINTON WOODS TO GLENWOOD GARDENS TRAIL

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PLAN AND PROFILE - WW TO GG
STA. 230+00.00 TO STA. 235+00.00

DESIGN AGENCY
KZF DESIGN
700 Broadway Street
Cincinnati, OH 45202-6010
TEL 513 621 6211
FAX 513 621 6530

DESIGNER
SCR

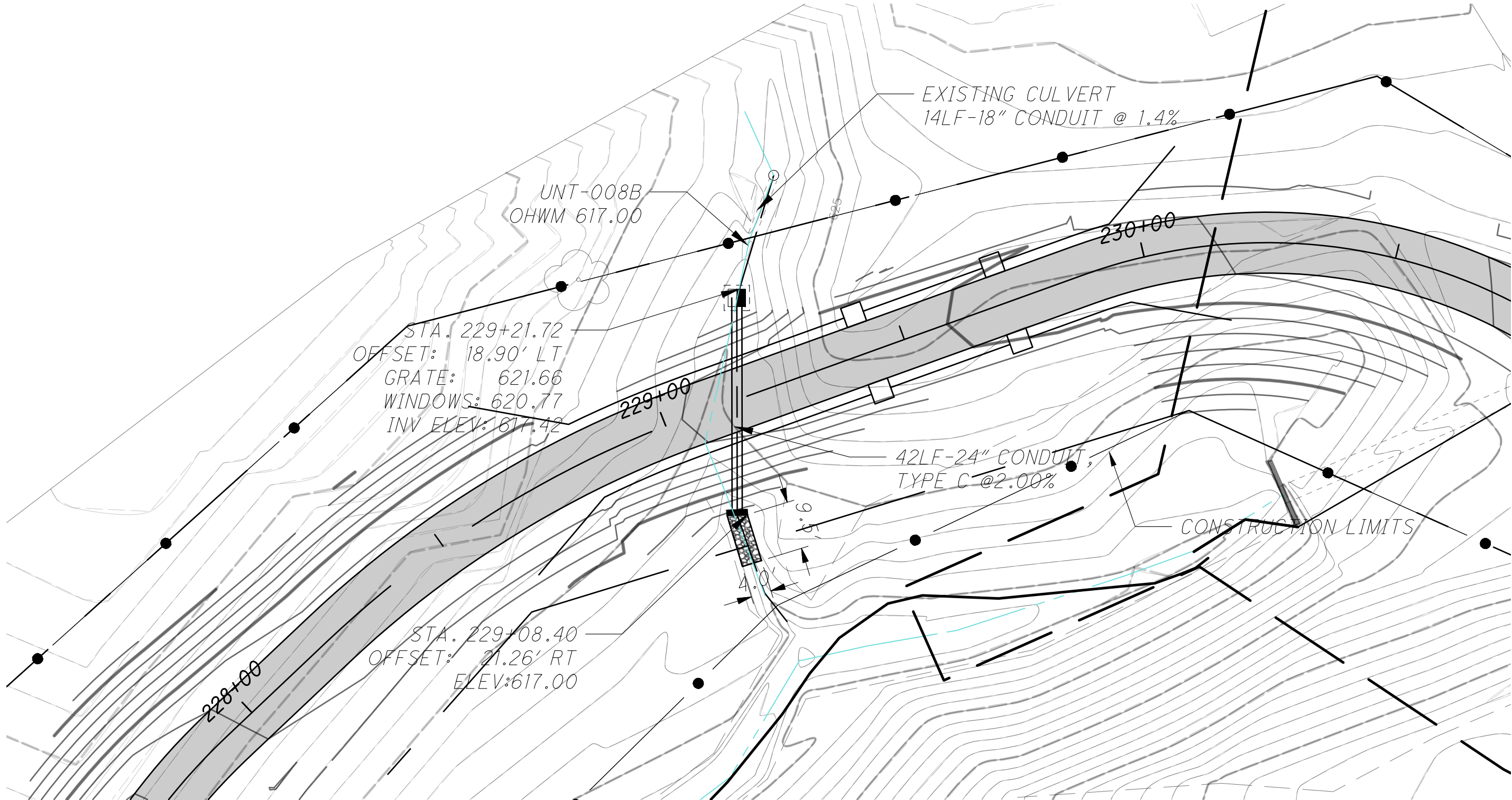
REVIEWER
SCR 1/29/2025

PROJECT ID
117016

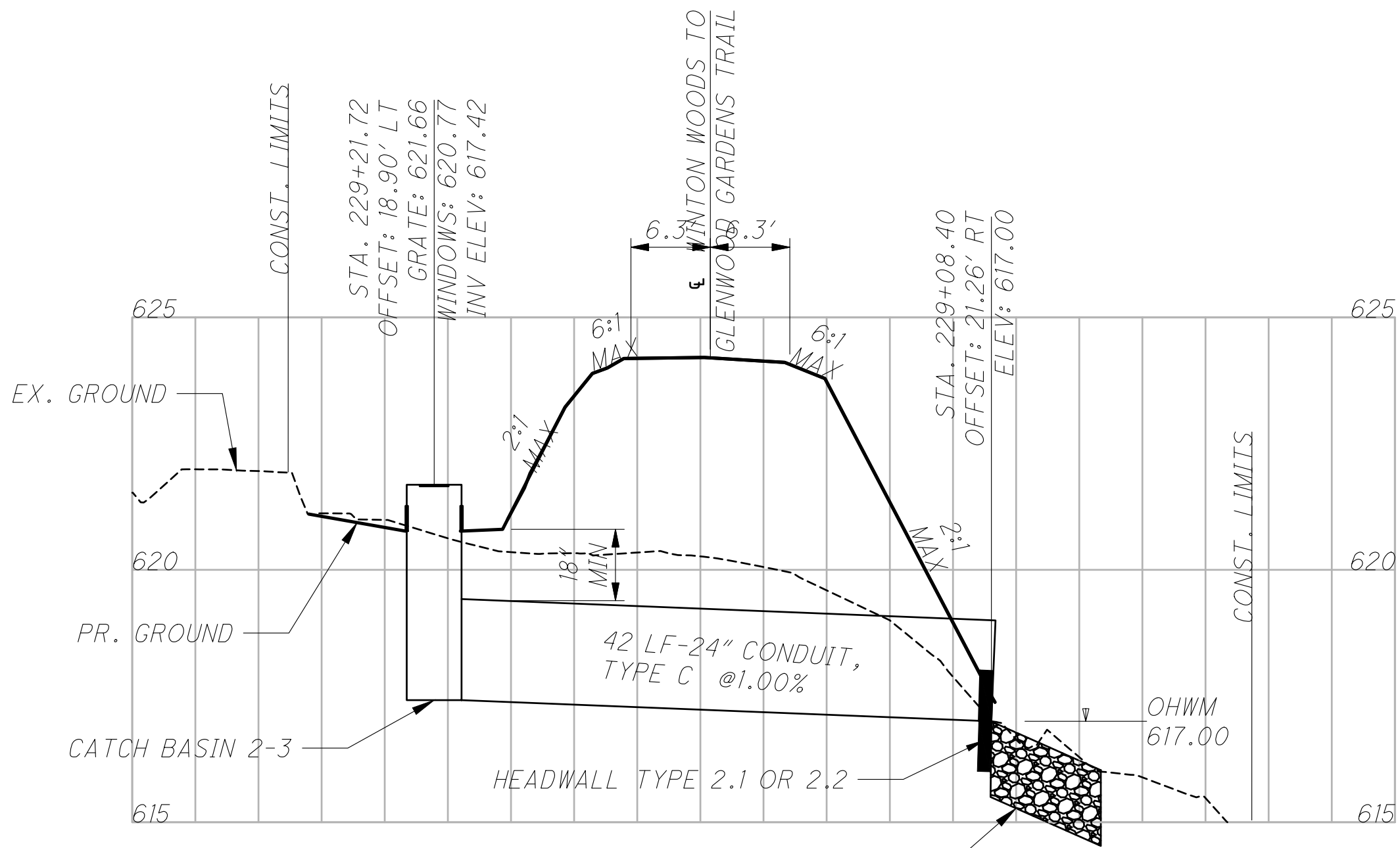
SHEET
P.74

TOTAL
298

ESTIMATED QUANTITIES				
ITEM	TOTAL	UNIT	DESCRIPTION	SEE SHEET
601	2.11	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
602	0.46	CY	CONCRETE MASONRY	
611	42	FT	24" CONDUIT, TYPE C	
611	1	EA	CATCH BASIN, NO. 2-3	



SWITCH BACK CULVERT PLAN VIEW
1"=20'

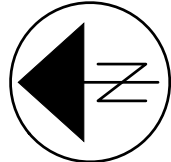
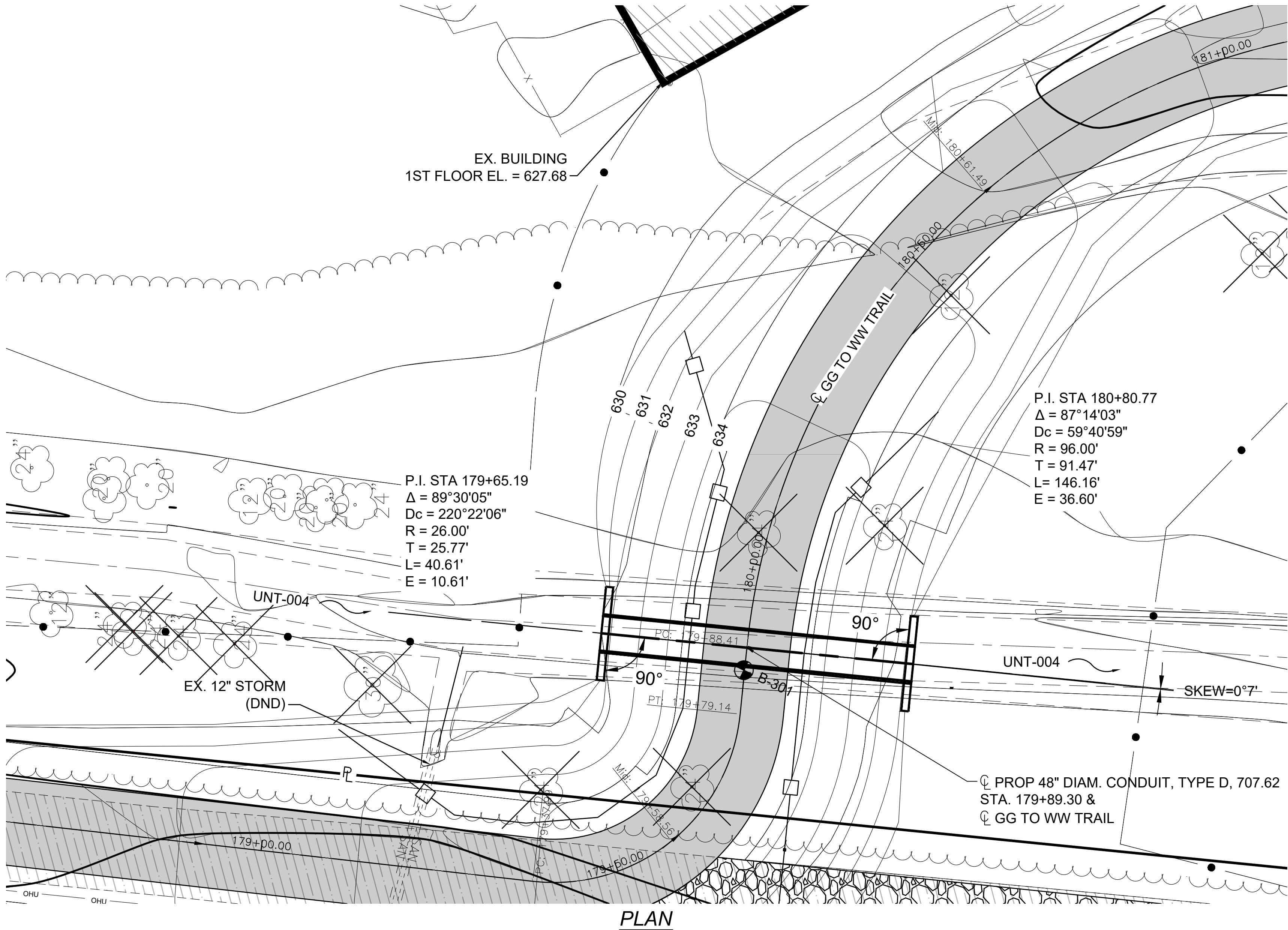


SWITCH BACK CULVERT PROFILE VIEW
1"=10'

HYDRAULIC DATA:

DRAINAGE AREA = 0.14 AC.*
EST. EX. 18" CULVERT FLOW = 13 CFS
AEP DESIGN DISCHARGE = 15.97 CFS
1% AEP DESIGN DISCHARGE = 21.12 CFS
AEP DESIGN VELOCITY = 8.31 CFS
1% AEP DESIGN VELOCITY = 8.77 CFS
AEP DESIGN HEADWATER ELEVATION = 619.62
1% AEP DESIGN HEADWATER ELEVATION = 619.98
ORDINARY HIGH WATER MARK = 617
FILL BELOW OHWM = 2.11 CY
DESIGN SERVICE LIFE = 75YRS
STREAM PH = 8.3 PER FIGURE 1002-2
ABRASION LEVEL = 1
CONDUIT FILE NUMBER = NONE

*AREA DOES NOT INCLUDE FLOW FROM
EXISTING CULVERT



ESTIMATED QUANTITIES				
ITEM	ITEM EXT.	QUANTITY	UNIT	DESCRIPTION
203	20000	36	CY	EMBANKMENT
602	20000	2.2	CY	CONCRETE MASONRY
611	21400	43.5	LF	48" CONDUIT, TYPE D, 707.62

NOTES

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS
- NOT ALL UTILITIES ARE SHOWN IN THE PROFILE. SEE TRAIL CROSS SECTIONS FOR ALL UTILITIES IN THE AREA.

LEGEND

 BORING LOCATION

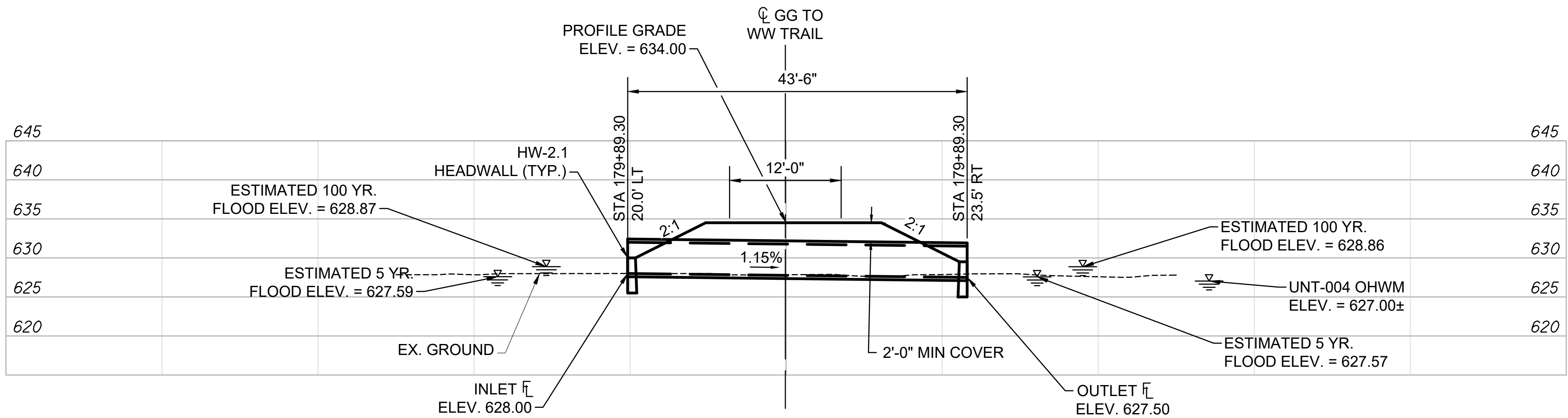
HYDRAULIC DATA

DRAINAGE AREA = 0.23 SQ. MILES
Q(5) = 10 CFS V(5) = 2.68 FPS
Q(100) = 378 CFS V(100) = 2.22 FPS

PROPOSED STRUCTURE

TYPE: 48" DIAM. CONDUIT, TYPE D, 707.62

LENGTH: 43'-6"
ROADWAY: 12'-0" WIDTH
LOADING: H-10
SKEW: 0° 7'
ALIGNMENT: TANGENT
CULVERT FILE NUMBER: NONE



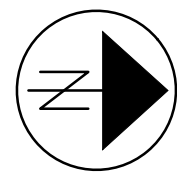
PROFILE ALONG CENTERLINE OF PROP 43'-6" 48" DIAM. CONDUIT, TYPE D, 707.62

HORIZONTAL
SCALE IN FEET

0 2 4 6 8 10
FEET

SITE PLAN
CULVERT AT STA. 179+89.30 (SITE 1)

SFN	NONE
DESIGN AGENCY	
RIBWAY ENGINEERING GROUP, INC. 300 E. BROAD ST. SUITE 500 COLUMBUS, OHIO 43215 PH. NO. (614) 221-6009 FAX NO. (614) 221-9089	
DESIGNER	CHECKER
AP	LI
REVIEWER	
AE/JC	03/27/24
PROJECT ID	117016
SUBSET	TOTAL
1	1
SHEET	TOTAL
180	298



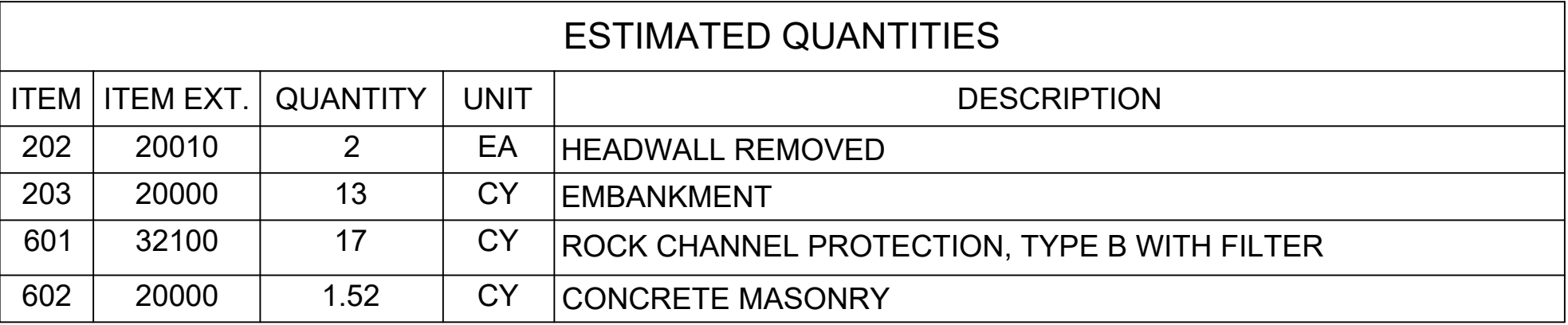
HORIZONTAL
SCALE IN FEET

0 2 4 6 8 10
FEET

NONE	
DESIGN AGENCY	
RIBWAY ENGINEERING GROUP, INC. 300 E. BROAD ST. SUITE 500 COLUMBUS, OHIO 43215 PH. NO. (614) 221-6009 FAX NO. (614) 221-9089	
DESIGNER AP	CHECKED LI
REVIEWER AE/JC 03/27/2	
PROJECT ID 117016	
SUBSET 1	TOTAL 1
SHEET 181	TOTAL 298

- | PROPOSED STRUCTURE | |
|----------------------|--|
| TYPE: | 30" DIAM. CONDUIT, TYPE D
W/ 20'-0" ± EXTENSION |
| LENGTH: | 62'-0"± |
| ROADWAY: | 12'-0" WIDTH |
| LOADING: | H-10 |
| SKEW: | 36° 18'± |
| ALIGNMENT: | TANGENT |
| CULVERT FILE NUMBER: | NONE |





1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS
2. NOT ALL UTILITIES ARE SHOWN IN THE PROFILE. SEE TRAIL CROSS SECTIONS FOR ALL UTILITIES IN THE AREA.



ROCK CHANNEL PROTECTION, TYPE B,
WITH FILTER

TYPE: EX. 36" DIAM. CONDUIT, TYPE D, 707.62

LENGTH: 40'-6"±
ROADWAY: 12'-0" WIDTH
LOADING: UNKNOWN
SKEW: 20° 44"±
ALIGNMENT: CURVATURE
CULVERT FILE NUMBER: NONE



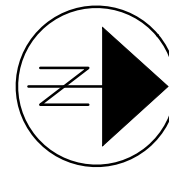
HORIZONTAL
SCALE IN FEET

0 2 4 6 8 10
FEET

SITE PLAN
CULVERT AT STA. 212+86.30 (SITE 3)

SFN	
NONE	
DESIGN AGENCY	
	
RIBWAY ENGINEERING GROUP, INC.	
300 E. BROAD ST.	
SUITE 500	
COLUMBUS, OHIO 43215	
PH. NO. (614) 221-6009	
FAX NO. (614) 221-9089	
DESIGNER	CHECKE
AP	LI

REVIEWER	
AE/JC 03/27/24	
PROJECT ID	
117016	
SUBSET	TOTAL
1	1
SHEET	TOTAL
182	298



HORIZONTAL
SCALE IN FEET

0 2 4 6 8 10
FEET

NONE	
SIGN AGENCY	
HWAY ENGINEERING GROUP, INC. 300 E. BROAD ST. SUITE 500 COLUMBUS, OHIO 43215 H. NO. (614) 221-6009 FAX NO. (614) 221-9089	
SIGNER	CHECKER
AP	LI
REVIEWER	
/JC 03/27/2	
OBJECT ID	
117016	
DSSET	TOTAL
1	1
HEET	TOTAL
183	298

- LEGEND**
- | | |
|---|--|
|  | ROCK CHANNEL PROTECTION, TYPE B
WITH FILTER |
|---|--|

PROPOSED STRUCTURE	
TYPE:	42" DIAM. CONDUIT, TYPE D W/ 8'-0"± EXTENSION
LENGTH:	40'-6"
ROADWAY:	12'-0" WIDTH
LOADING:	H-10
SKEW:	20° 44'±
ALIGNMENT:	CURVATURE
CULVERT FILE NUMBER:	NONE





US Army Corps of Engineers
Huntington District

Permit Number: 2024-00506-MIL

Name of Permittee: Ohio Department of Transportation

Date of Issuance: April 3, 2025

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers - Huntington District
Building 10/ Section 10
PO Box 3990
Columbus, OH 43218-3990

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date