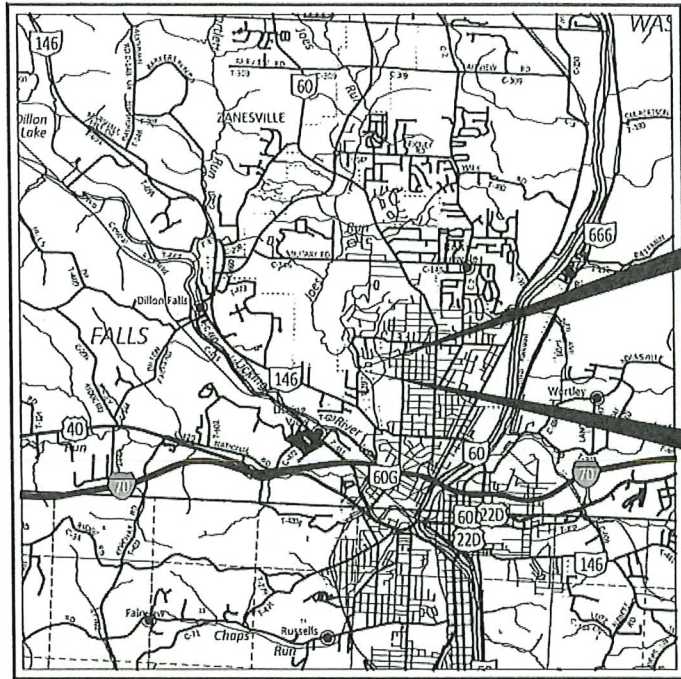


MUS-T.R.297-0.42

MODEL: Sheet PAPER: 17x11 (in.) DATE: 2/28/2024 TIME: 1:30:40 PM USER: sajohanson D:\MCE\Projects\17328\400-Engineering\Roadway\Sheets\17328_GTT001.dgn



LOCATION MAP

LATITUDE: 39°57'49" N LONGITUDE: 82°01'31" W



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	-----
FEDERAL ROUTES	-----
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

DESIGN DESIGNATION

CURRENT ADT (2022)	5344
DESIGN YEAR ADT (2042)	5878
DESIGN HOURLY VOLUME (2042)	705
DIRECTIONAL DISTRIBUTION	0.55
TRUCKS (24 HOUR B&C)	-----
DESIGN SPEED	25 MPH
LEGAL SPEED	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	05 - URBAN MAJOR COLLECTOR
NHS PROJECT:	NO

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

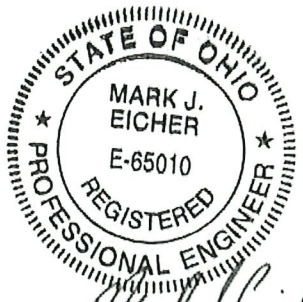
NONE

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

Mark J. Eicher, P.E., P.S.
155 Rehl Road
Zanesville, Ohio 43701
740-454-0155

ENGINEER'S SEAL:		STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
 SIGNED:  DATE: 2-28-24	BP-3.1	1/21/22	MT-101.60	4/21/23				800	1/18/24	ASBESTOS SURVEY REPORT	
			MT-105.10	1/17/20				832	7/21/23		
	DM-4.3	1/15/16								8/9/22	
	DM-4.4	1/15/16	TC-41.20	10/18/13							
			TC-42.20	10/18/13							
	MGS-1.1	7/16/21	TC-52.10	10/18/13							
	MGS-2.1	1/19/18	TC-52.20	1/15/21							
	MGS-3.1	1/19/18									
	MGS-4.1	1/20/17									
	MGS-4.2	7/19/13									

FEDERAL PROJECT NUMBER

E230 (007)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

IMPROVEMENT OF 0.05 MILES OF T.R.297 IN FALLS TOWNSHIP, BY REPLACING A SINGLE SPAN STEEL BEAM BRIDGE OVER JOE'S RUN WITH A REINFORCED CONCRETE SLAB BRIDGE INCLUDING GUARDRAIL AND MINIMAL APPROACH ROADWAY WORK.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.25 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.10 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A

2023 SPECIFICATIONS

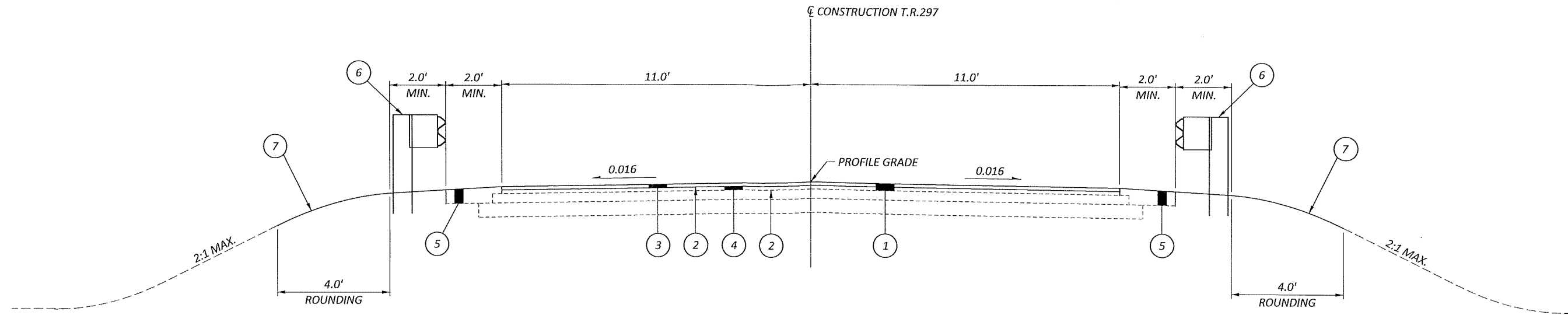
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

APPROVED
DATE 2-28-24 MUSKINGUM COUNTY ENGINEER

TITLE SHEET

DESIGN AGENCY

DESIGNER	SEJ
REVIEWER	MJE 11/10/2
PROJECT ID	117328
SHEET	TOTAL
1	16



ROADWAY SECTION
REAR
STA. 1+56.53 TO STA. 2+34.62
FORWARD
STA. 2+72.12 TO STA. 3+80.29

LEGEND

- 1 ITEM 254 - 3" PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- 2 ITEM 407 - TACK COAT (@ 0.05 GAL./SQ.YD.)
- 3 ITEM 441 - 1 1/4" - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22
- 4 ITEM 441 - 1 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
- 5 ITEM 411 - 6" STABILIZED CRUSHED AGGREGATE
- 6 ITEM 606 - GUARDRAIL, TYPE MGS
- 7 ITEM 659 - SEEDING AND MULCHING

ROUNDING

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

UTILITIES

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

CITY OF ZANESVILLE DIVISION OF WASTE WATER
1730 MOXAHALA AVENUE, ZANESVILLE, OH 43701
ATTN: SCOTT BROWN, 740-455-0641 (SCOTT.BROWN@COZ.ORG)

AT&T OHIO
160 NORTH SIXTH STREET, ZANESVILLE, OH 43701
ATTN: BARRETT TAMASOVICH, 740-454-3552 (BT2178@ATT.COM)

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NADV 88 DATUM.

EXISTING PLANS

EXISTING PLANS ARE AVAILABLE UPON REQUEST AT THE MUSKINGUM COUNTY ENGINEER'S OFFICE, 740-454-0155.

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.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

CONTRACTOR'S USE OF RIGHT-OF-WAY

THE CONTRACTOR SHALL NOT USE OR ENTER ANY AREA OUTSIDE OF THE RIGHT-OF-WAY LIMITS THAT ARE SHOWN ON THE PLANS.

FLOOD PLAIN

NO STORAGE OF MATERIALS OR STAGING SHALL OCCUR WITHIN THE FLOODPLAIN OF JOE'S RUN.

NO IN STREAM WORK

NO WORK SHALL TAKE PLACE BELOW THE ORDINARY HIGH-WATER MARK (OHWM) OF JOE'S RUN. SHOULD WORK BELOW THE OHWM ELEVATION OF 698.25 NEED TO TAKE PLACE, THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING THEIR OWN WATERWAY PERMIT FROM THE HUNTINGTON OFFICE OF THE US ARMY CORPS OF ENGINEERS.

DEMOLITION DEBRIS

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED WITHIN 72 HOURS.

SEEDING AND MULCHING

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

659, SEEDING AND MULCHING 50 SQ. YD.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE ESTIMATED .

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

DEPTH OF PLANING SHALL BE 3" AND SHALL BE FULL WIDTH. THE ROADWAY SHALL BE PLANED SUCH THAT POSITIVE DRAINAGE FROM THE CENTER LINE TO THE EDGE OF PAVEMENT IS MAINTAINED. ALL REQUIREMENTS OF ITEM 254 SHALL APPLY.

APPROXIMATELY 76 TONS OF GRINDINGS (RACP) SHALL BE LOADED INTO COUNTY TRUCKS THAT WILL BE HAULED AWAY BY COUNTY CREWS.

CONTACT THE MUSKINGUM COUNTY ENGINEER'S OFFICE TO COORDINATE THE DATES AND TIME THAT COUNTY TRUCKS NEED TO ARRIVE ON-SITE FOR PLANING OPERATION.

OEPA NOTIFICATION OF DEMOLITION AND RENOVATION

AN ASBESTOS SURVEY FOR THE MUS-TR297-0.42 BRIDGE SCHEDULED FOR DEMOLITION WORK WAS CONDUCTED BY A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST. A COPY OF THE ASBESTOS SURVEY REPORT FOR THE BRIDGE HAS BEEN INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT. THE ASBESTOS SURVEY REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS.

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM, PARTIALLY COMPLETED BY THE ASBESTOS HAZARD EVALUATION SPECIALIST, HAS BEEN INCLUDED AT THE END OF THE ASBESTOS SURVEY REPORT. THE CONTRACTOR SHALL COMPLETE THE NECESSARY SECTIONS OF THE FORM AND SUBMIT IT WITH A COPY OF THE ASBESTOS SURVEY REPORT TO:

ASBESTOS PROGRAM
OHIO EPA, DAPC
PO BOX 1049
COLUMBUS OH 43216-1049

AT LEAST 10 WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION WORK. NOTIFICATION CAN BE MADE EITHER BY HARD COPY OR ELECTRONICALLY. ADDITIONAL INFORMATION CAN BE FOUND HERE: <http://epa.ohio.gov/dapc/atu/asbestos.aspx#179575188-project-notification>

BASIS FOR PAYMENT:

THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENTS FOR THIS WORK SHALL BE INCIDENTAL TO THE ITEM 202, STRUCTURE REMOVAL ITEM(S) IN THE PLAN.

DESIGN AGENCY



DESIGNER

SEJ

REVIEWER

MJE 11/10/

PROJECT ID

117328

SHEET TOTAL

3 16

ITEM 614 - MAINTAINING TRAFFIC

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48"x30" ROAD CLOSED SIGNS, ADVANCED WARNING SIGNS, SIGN SUPPORTS, BARRICADES, GATES AND LIGHTS AS SHOWN ON SCD MT-101.60 AT THE LOCATIONS SHOWN DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS, SIGN SUPPORTS, AND TYPE 3 BARRICADES OF THE TYPE AND LOCATION AS SHOWN ON THIS SHEET.

ALL WORK AND TRAFFIC DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

DETOUR NOTIFICATION

THE CONTRACTOR SHALL ADVISE THE MCEO EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE WILL BE IN EFFECT. THE CONTRACTOR SHALL THEN PROVIDE AND INSTALL ALL DEVICES NECESSARY TO DEFINE THE ROUTE OF THE DETOUR AND SHALL MAINTAIN THE SAME THROUGHOUT THE DETOUR LIMITATION DATES. ALL TRAFFIC CONTROL DEVICES REQUIRED, SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR.

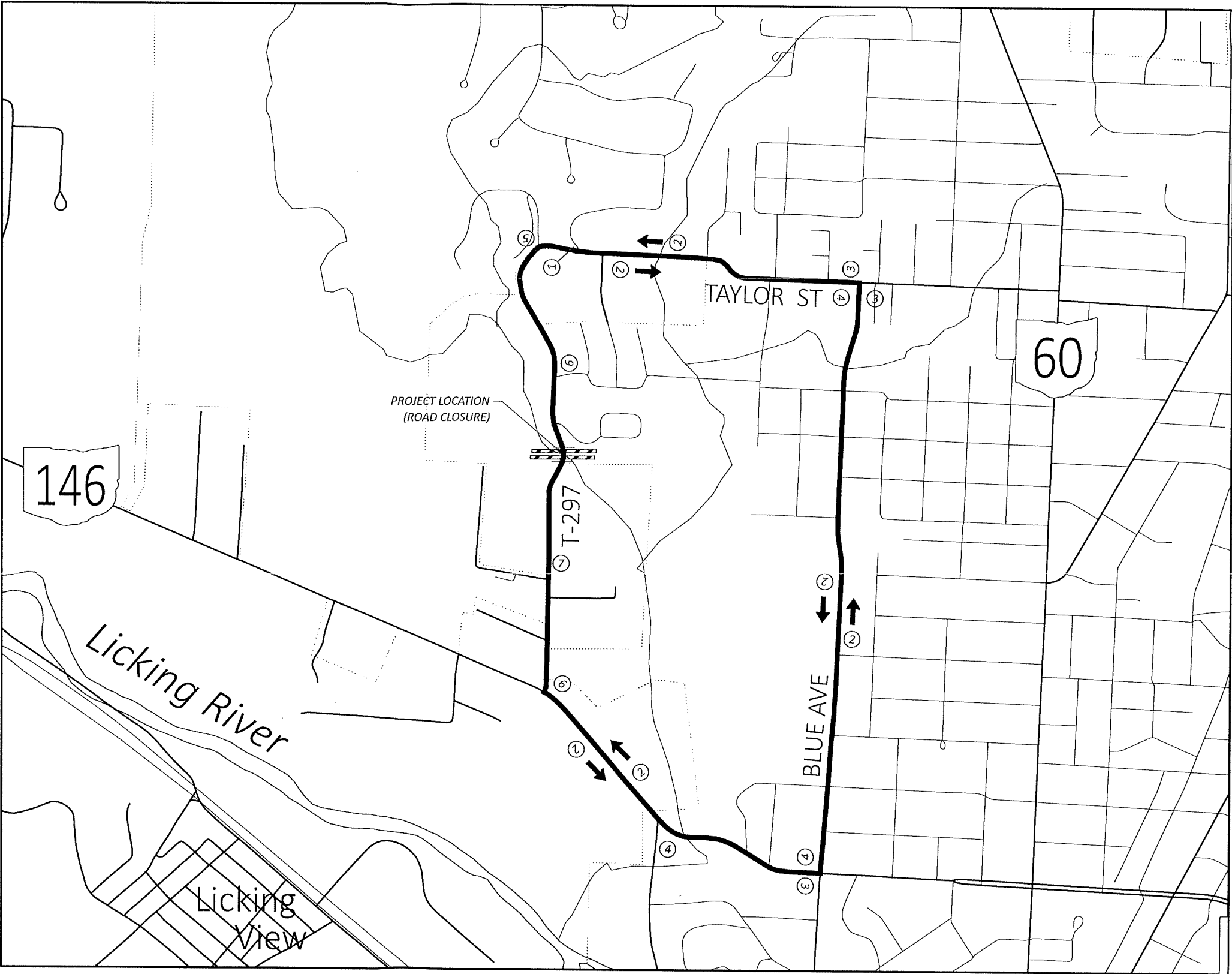
DETOUR SIGNAGE

THE CONTRACTOR SHALL ERECT AND MAINTAIN DETOUR SIGNAGE AND ADVANCED NOTICE SIGNS AS SHOWN ON THIS SHEET.

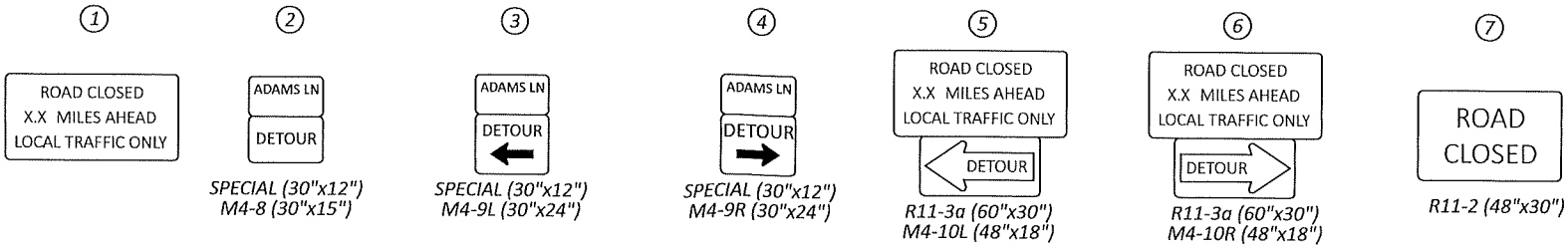
THIS WORK SHALL BE PAID UNDER THE LUMP SUM PAY ITEM 614 - DETOUR SIGNING, AS PER PLAN

DETOUR LIMITATION

THE MAXIMUM LENGTH OF TIME FOR THE DETOUR ROUTE TO BE IN EFFECT SHALL BE FORTY-FIVE (45) CONSECUTIVE DAYS. CONSTRUCTION WORK MAY BE PERFORMED BEFORE AND AFTER THE DETOUR LIMITATION DATES, BUT THERE SHALL BE NO RESTRICTIONS TO THROUGH OR LOCAL TRAFFIC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM THE CONSTRUCTION WORK WITHIN THE DETOUR LIMITATION TIME. THE FAILURE OF THE CONTRACTOR TO MEET THE DETOUR LIMITATION DATES WILL CAUSE SEPARATE LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07 TO BE ASSESSED. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF 108.07 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.



TYPICAL SIGNS AS NEEDED



MUS-T.R.297-0.42

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SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
																		ROADWAY	
														201	11000	LS		CLEARING AND GRUBBING	
														202	38000	162.5	FT	GUARDRAIL REMOVED	
														203	10000	10	CY	EXCAVATION	
														203	20000	10	CY	EMBANKMENT	
														254	01001	456	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	3
														606	15050	200	FT	GUARDRAIL, TYPE MGS	
														606	26550	4	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
																		EROSION CONTROL	
														659	00530	50	SY	SEEDING AND MULCHING, CLASS 3B	
														832	30000	2,000	EACH	EROSION CONTROL	
																		PAVEMENT	
														407	10000	23	GAL	TACK COAT	
														411	10000	13	CY	STABILIZED CRUSHED AGGREGATE	
														441	50000	16	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
														441	50300	23	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
																		TRAFFIC CONTROL	
														626	00110	8	EACH	BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL	
														642	00300	0.05	MILE	CENTER LINE, TYPE 1	
																		MAINTENANCE OF TRAFFIC	
														614	12421	LS		DETOUR SIGNING, AS PER PLAN	4
																		STRUCTURE OVER 20 FOOT SPAN (MUS-TR297-0.42)	
																		FOR BRIDGE ESTIMATED QUANTITIES SEE SHEET 10	
																		INCIDENTALS	
														614	11000	LS		MAINTAINING TRAFFIC	
														623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
														624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER
SEI

3LJ

REVIEWER

MJE 11/1

PROJECT ID

11732

HEET TO

5 |



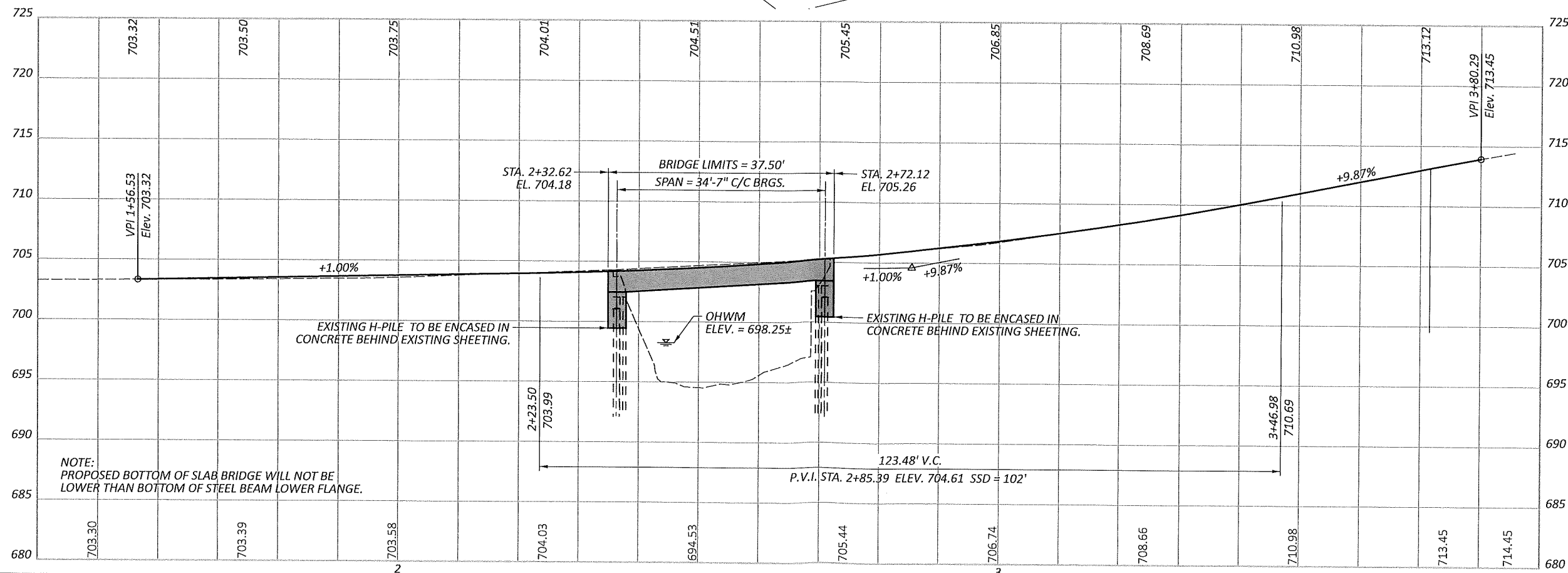
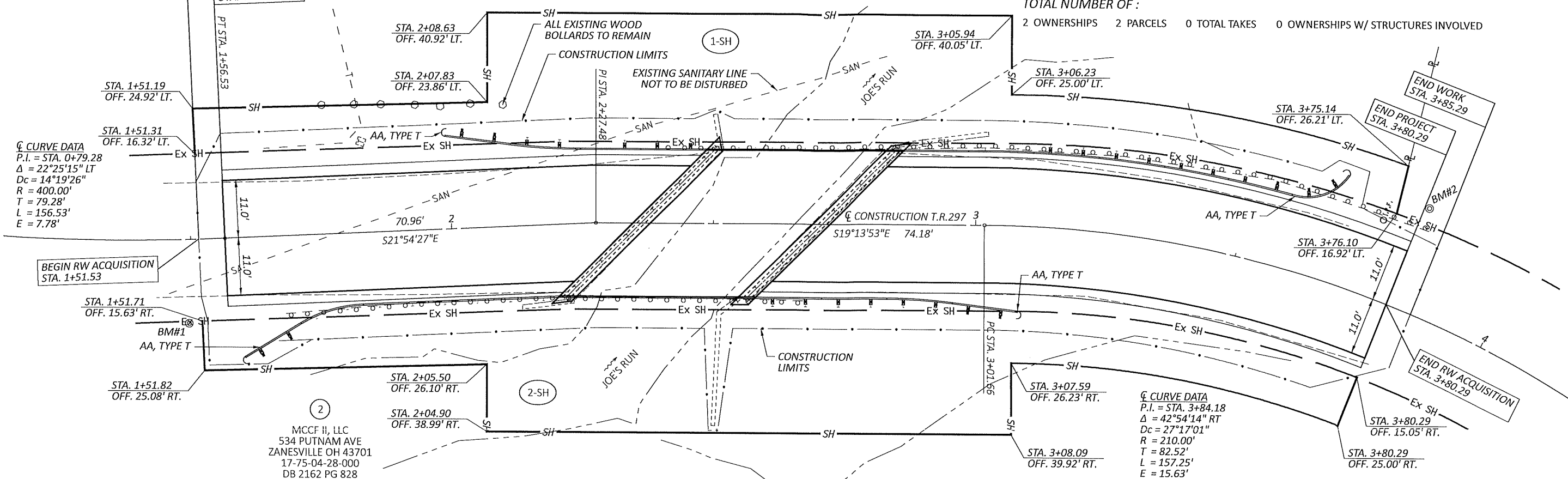
LEGEND

SH = STANDARD HIGHWAY EASEMENT

PARCEL NO.	OWNER	OWNERS RECORD		AUDITOR'S PARCEL NO.	RECORD AREA	TOTAL P.R.O.	NET TAKE	REMARKS
		BOOK	PAGE					
1-SH	ZANESVILLE METROPOLITAN HOUSING AUTHORITY	1149	506	86-24-05-13-000	8.52	0.0000	0.083	FOR CONSTRUCTION
2-SH	MCCF II, LLC	2162	828	17-75-04-28-000	31.94	0.0000	0.081	FOR CONSTRUCTION

TOTAL NUMBER OF :

2 OWNERSHIPS 2 PARCELS 0 TOTAL TAKES 0 OWNERSHIPS W/ STRUCTURES INVOLVED



HORIZONTAL SCALE IN FEET

PLAN AND PROFILE
STA. 1+56.53 TO STA. 3+80.29

DESIGN AGENCY



DESIGNER

SEJ

REVIEWER

MJE 11/10/

PROJECT ID

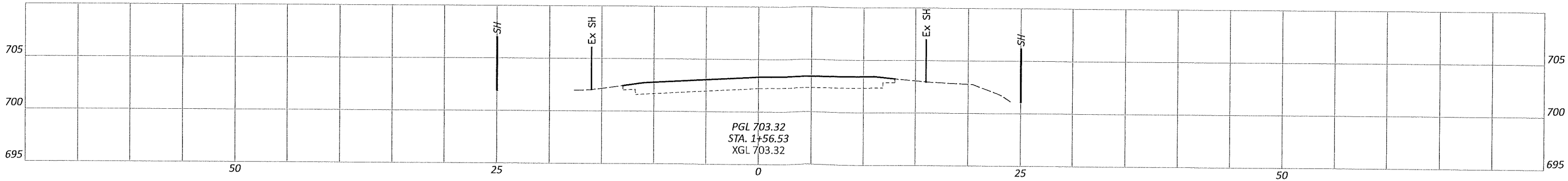
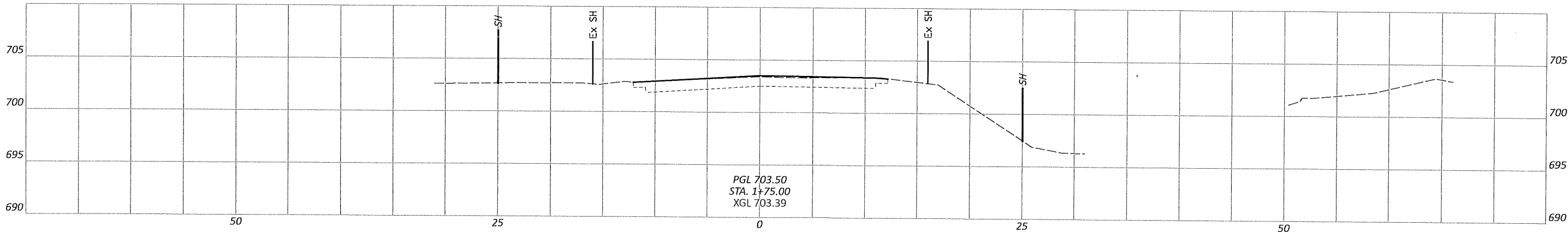
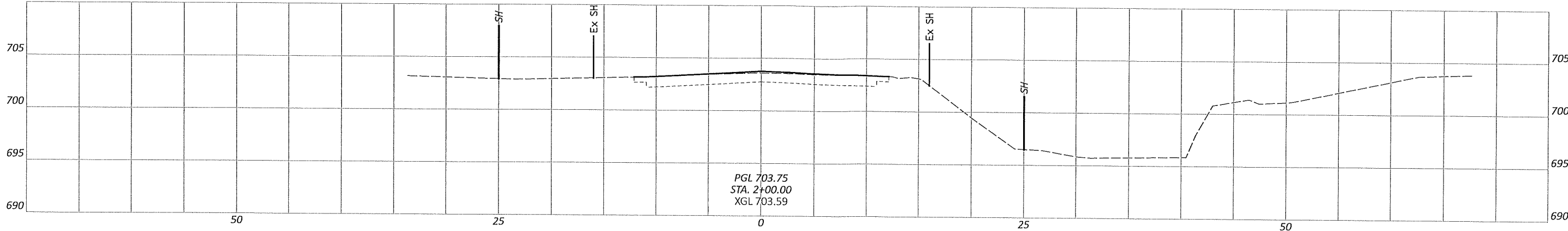
117328

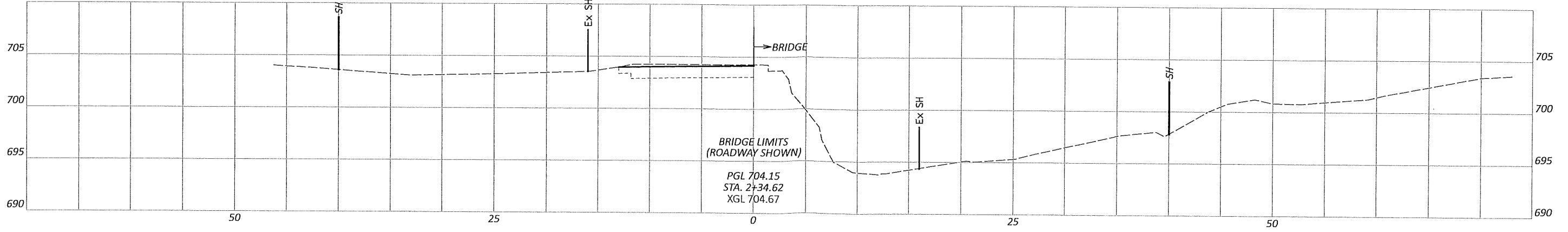
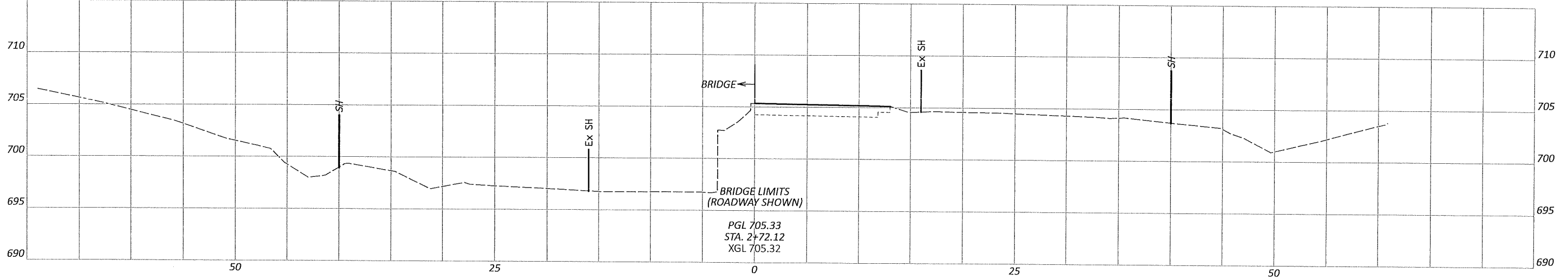
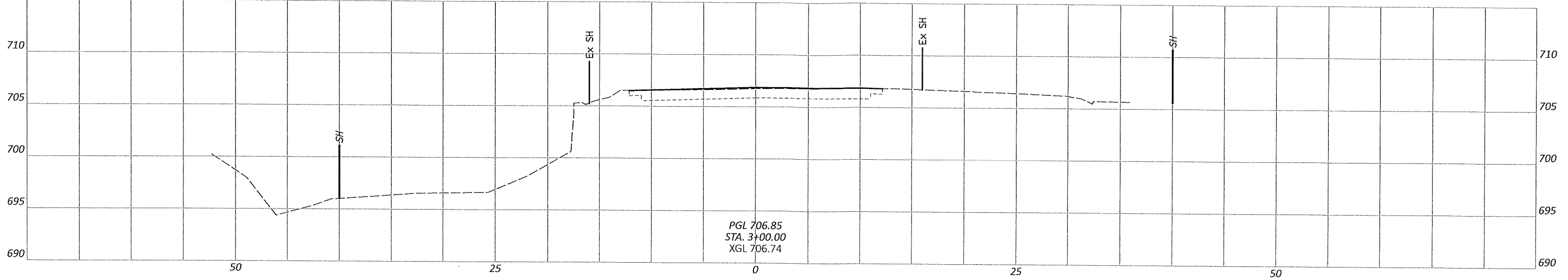
SHEET

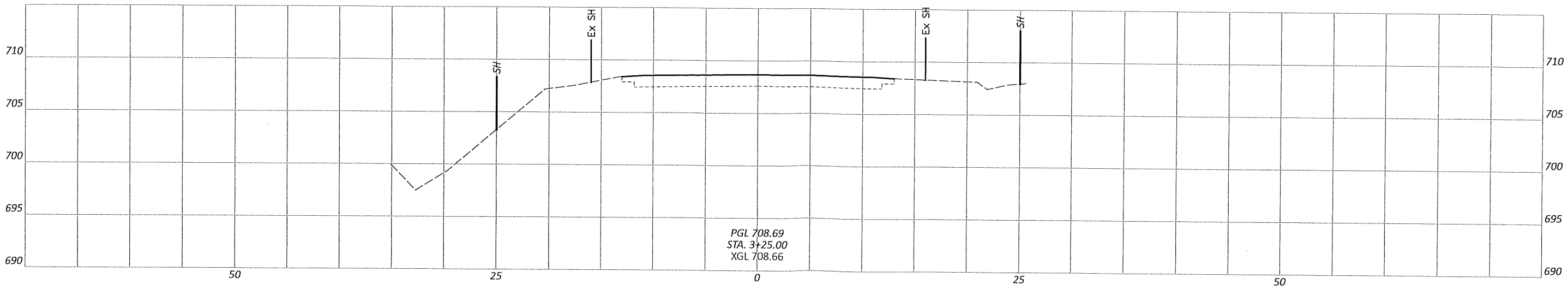
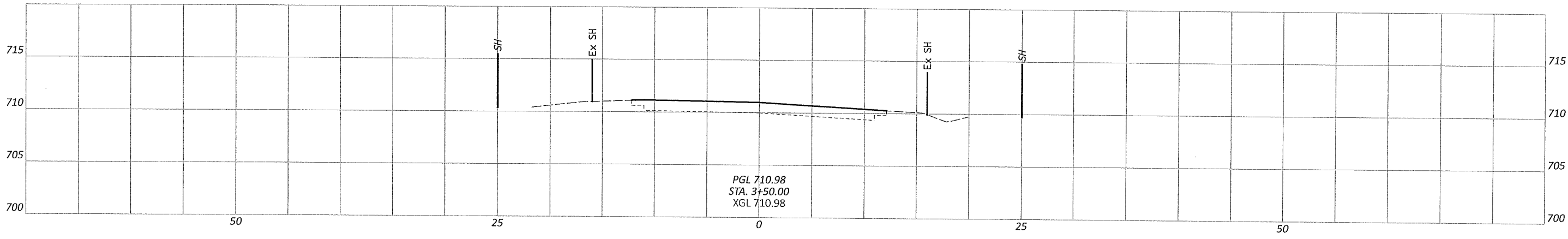
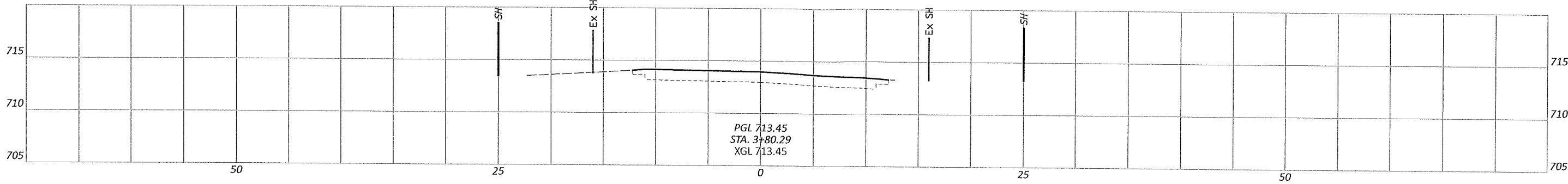
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TOTAL

16







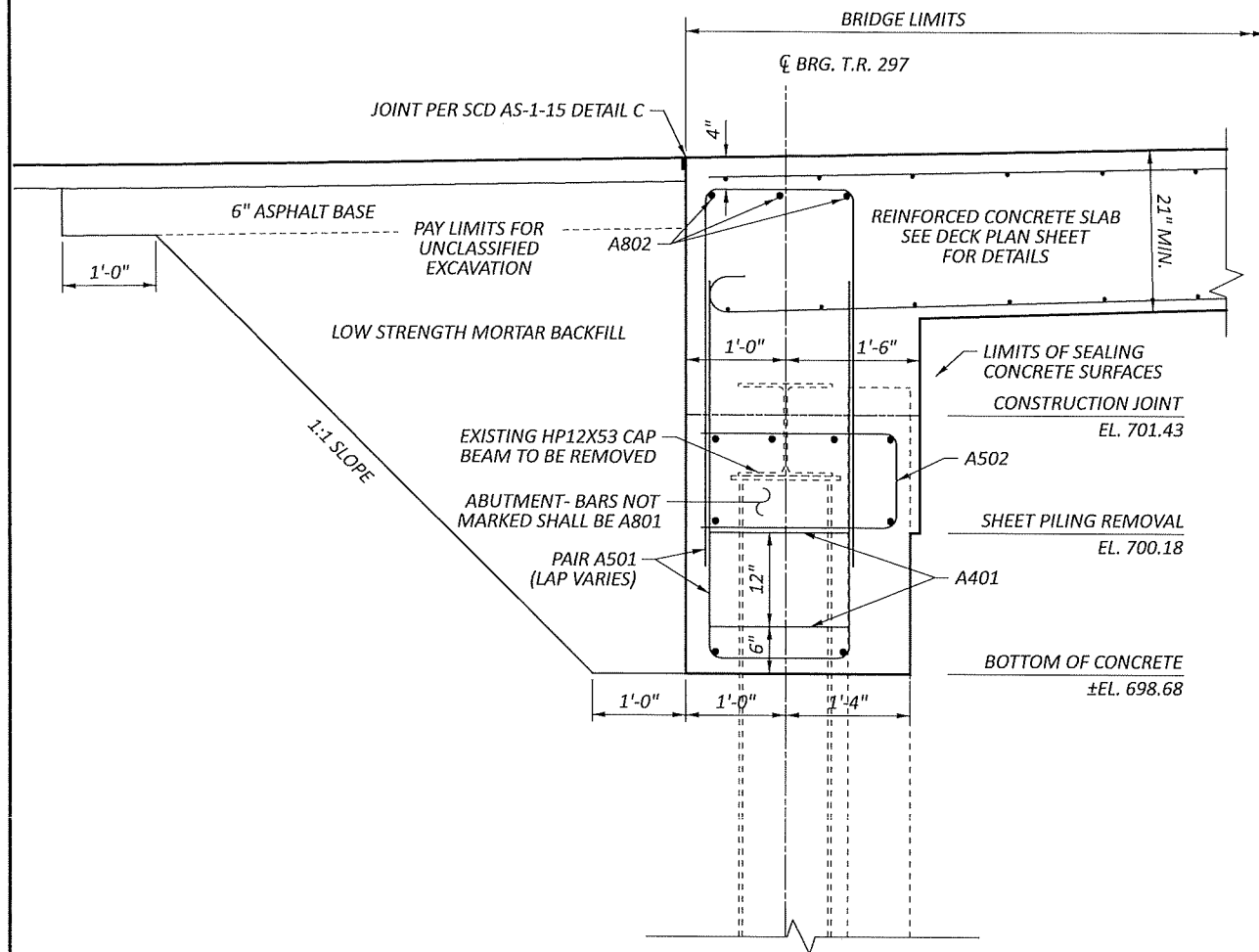


HORIZONTAL
SCALE IN FEET

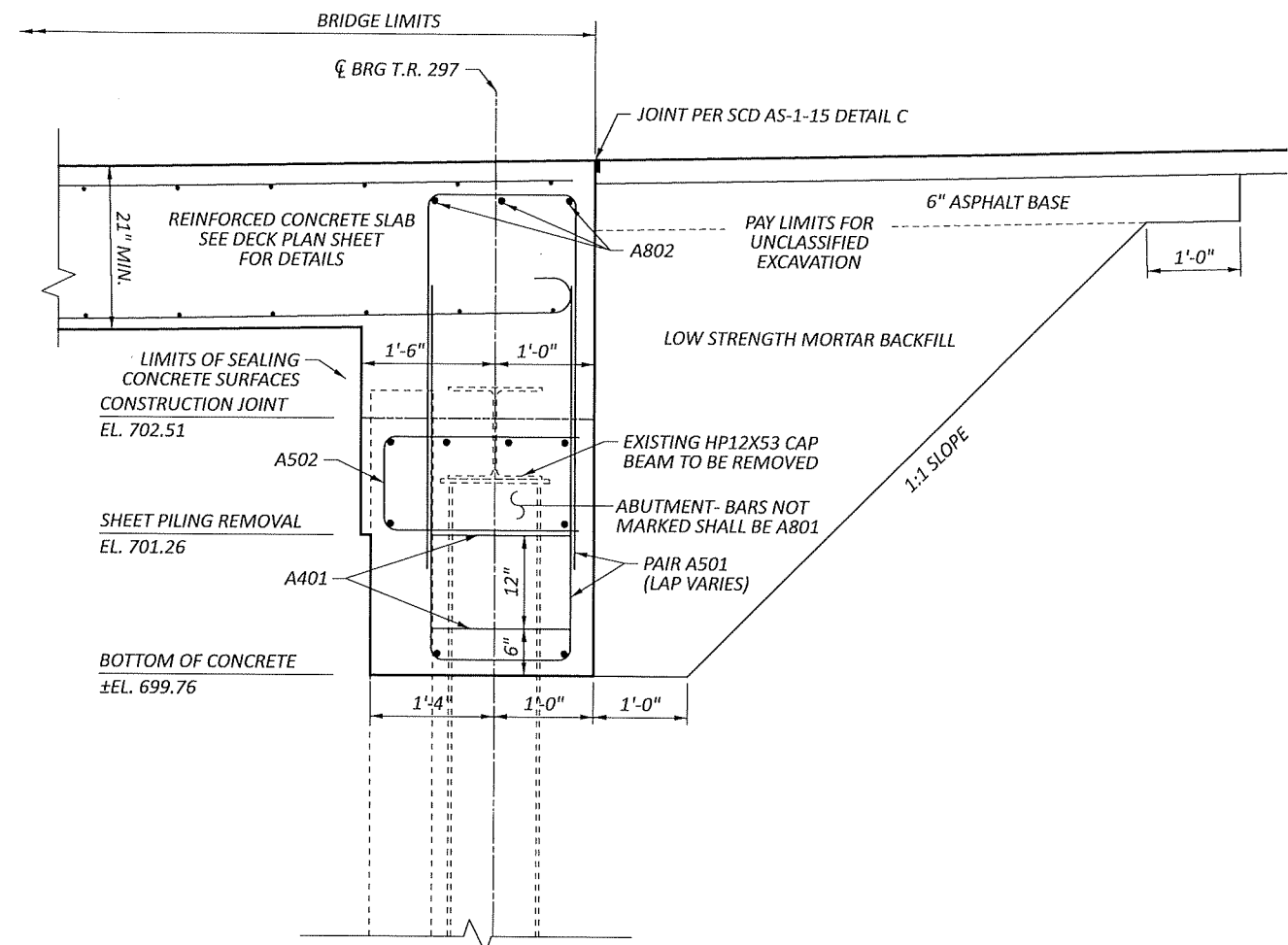
0 10

SITE PLAN
BRIDGE NO. MUS-TR297-0042

SHEET	TOTAL
10	1



REAR ABUTMENT TYPICAL SECTION



FORWARD ABUTMENT TYPICAL SECTION

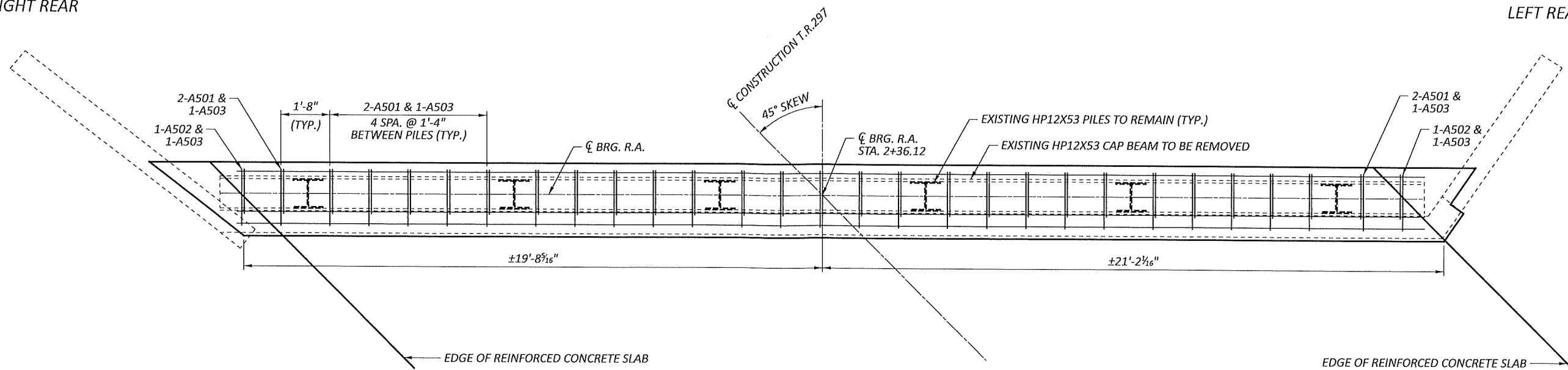
NOTES:

1. CAST-IN-PLACE SLAB BARS NOT LABELED, SEE BRIDGE SHEET **[6/7]**
2. ALL CONCRETE ABOVE CONSTRUCTION JOINT SHALL BE PART OF SLAB POUR AND HAS BEEN INCLUDED IN CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN QUANTITIES.



RIGHT REAR

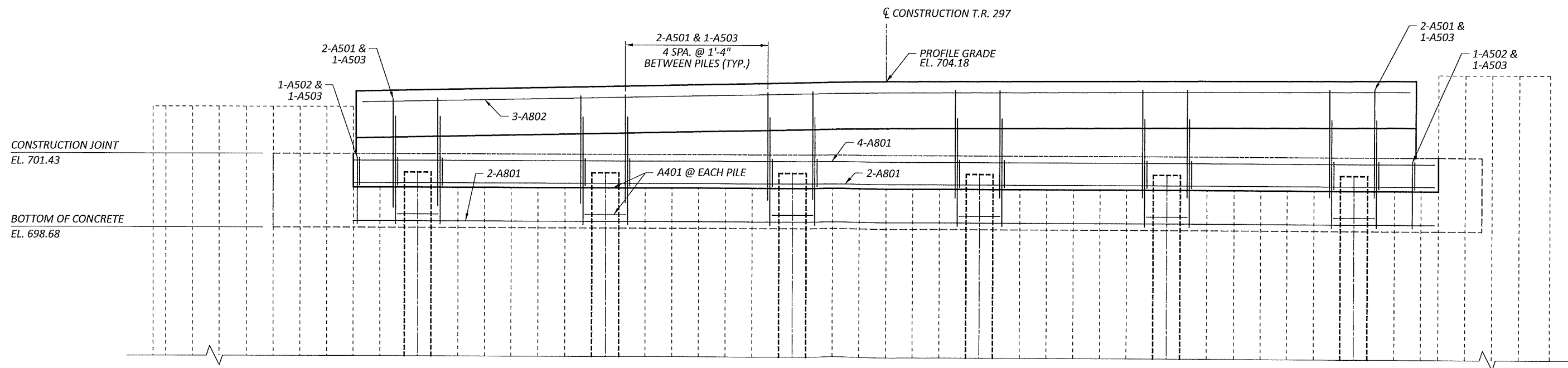
LEFT REAR



REAR ABUTMENT PLAN VIEW

NOTES:

1. CAST-IN-PLACE SLAB BARS NOT SHOWN, SEE BRIDGE SHEET **6/7**
2. ALL CONCRETE ABOVE CONSTRUCTION JOINT SHALL BE PART OF SLAB POUR AND HAS BEEN INCLUDED IN CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN QUANTITIES.



REAR ABUTMENT ELEVATION VIEW

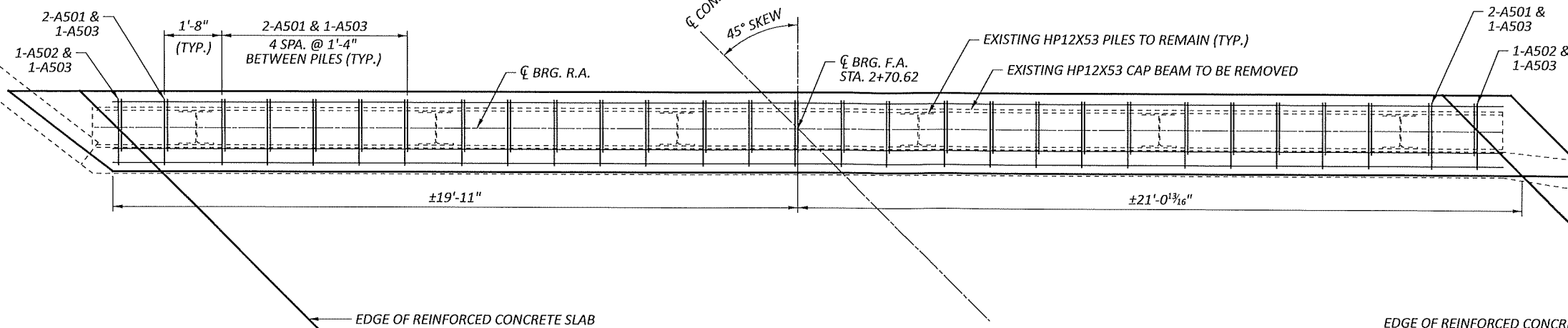
ABUTMENT DETAILS
BRIDGE NO. MUS-TR297-0042
OVER LOGIC RUN

DESIGNER	SEJ	CHECK	MJE
REVIEWER	MJE	DATE	11/10/
PROJECT ID	117328		
SUBSET	4	TOTAL	7
SHEET	13	TOTAL	16



LEFT FORWARD

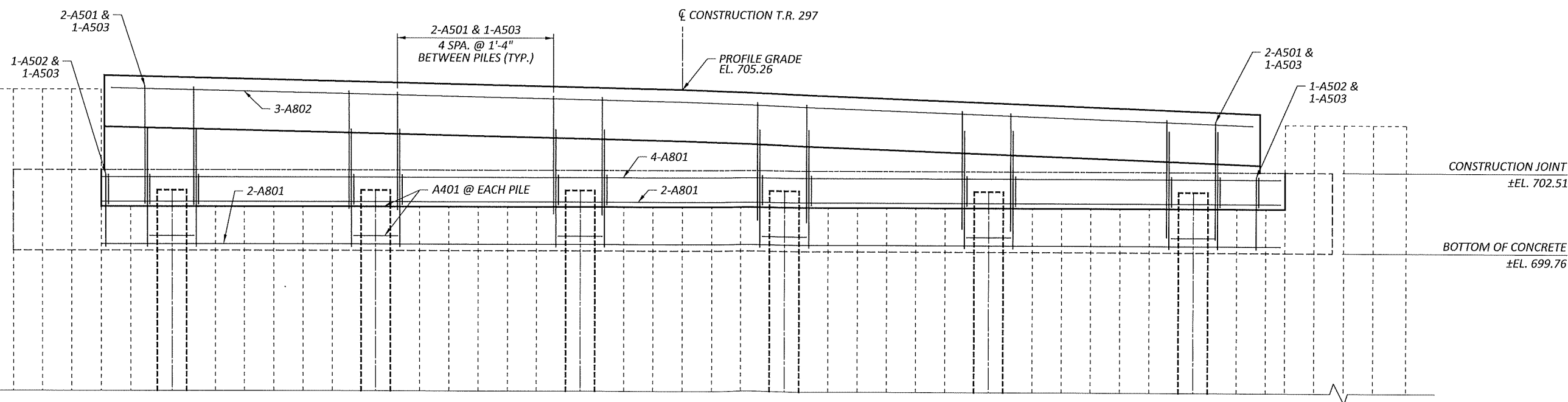
RIGHT FORWARD



FORWARD ABUTMENT PLAN VIEW

NOTES:

1. CAST-IN-PLACE SLAB BARS NOT SHOWN, SEE BRIDGE SHEET 6/7
2. ALL CONCRETE ABOVE CONSTRUCTION JOINT SHALL BE PART OF SLAB POUR AND HAS BEEN INCLUDED IN CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN QUANTITIES.



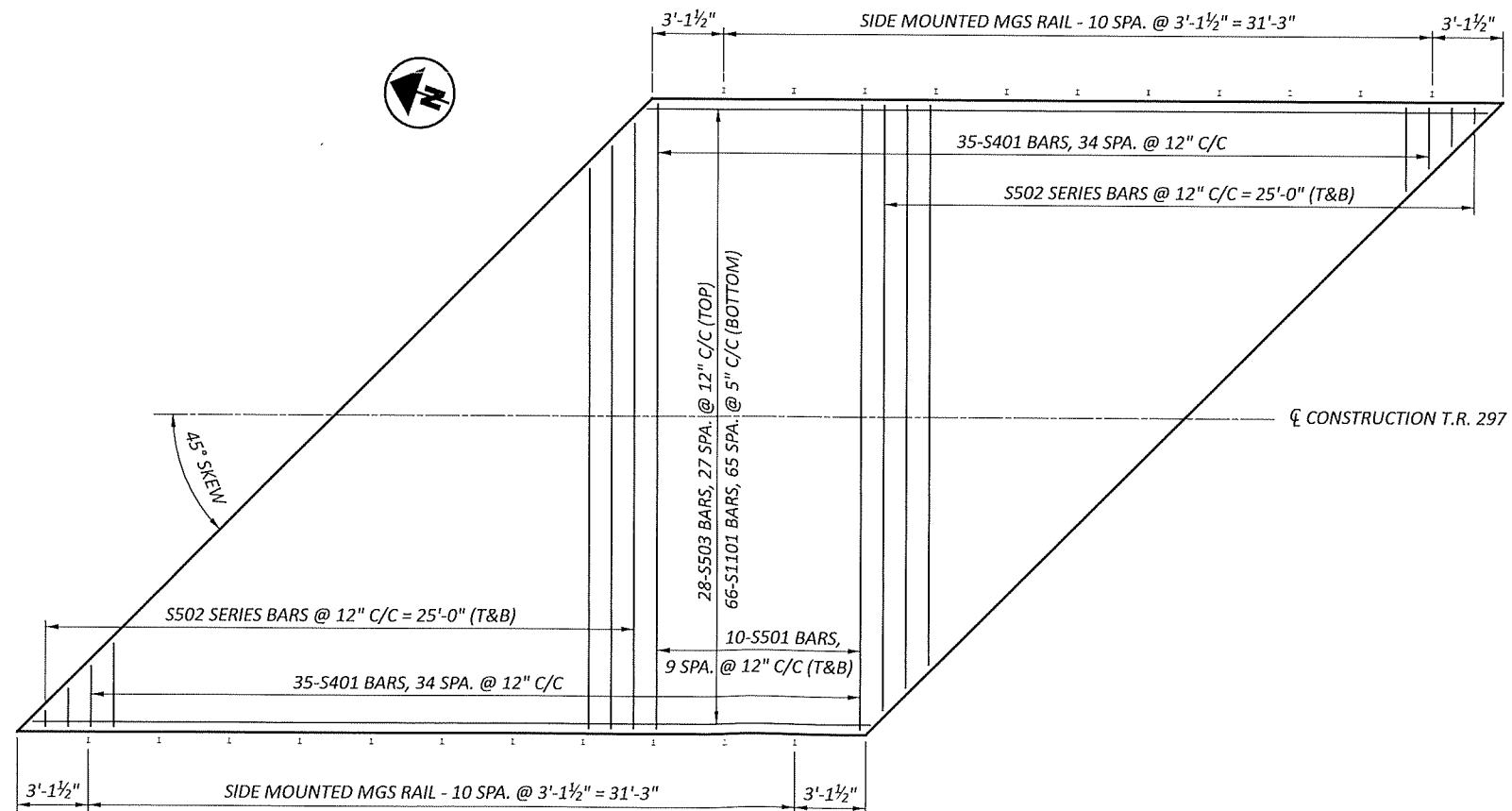
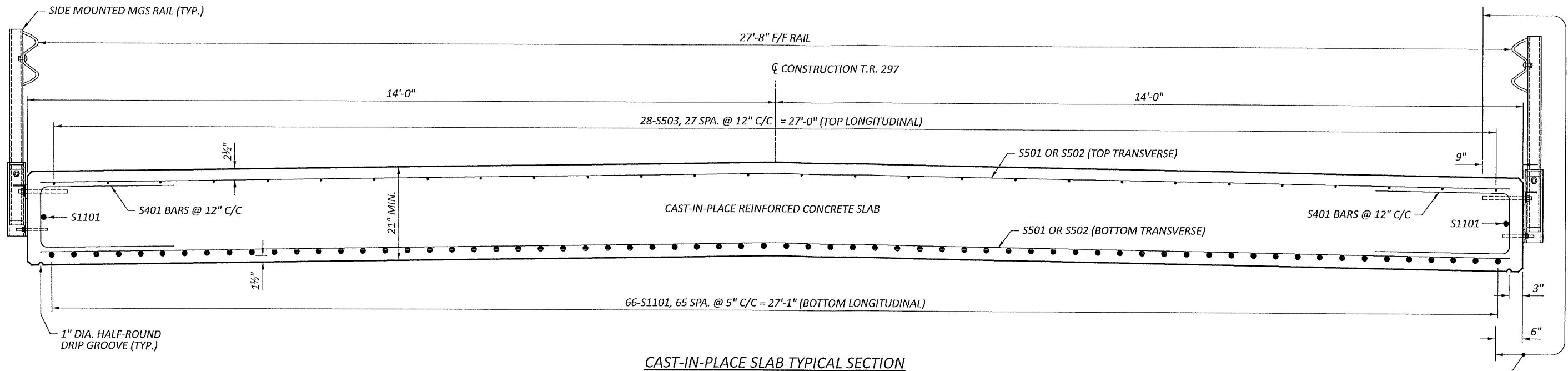
FORWARD ABUTMENT ELEVATION VIEW

ABUTMENT DETAILS
BRIDGE NO. MUS-TR297-0042
OVER I-10'S R/L

SFN		6040242
DESIGN AGENCY		Muskingum County Engineer's Office
DESIGNER	CHECK	
SEJ	MJ	
REVIEWER		
MJE 11/10/		
PROJECT ID		117328
SUBSET	TOTAL	
5	7	
SHEET	TOTAL	
14	16	

MUS-T.R.297-0.42

MODEL: Sheet13 PAPER: 17x11 (in.) DATE: 2/28/2024 TIME: 1:31:01 PM USER: s404241.dgn
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MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	REAR	FWD	TOTAL				A	B	C	D	E	R	INC
DECK													
S401			70	6'-4"	296	2	2'-6"	1'-6"	2'-6"				
S501			20	27'-6"	574	STR							
S502			4 SR OF 26	8'-0" TO 26'-8"	1880	STR							0'-9"
S503			28	37'-0"	1081	STR							
S1101			68	40'-2"	14512	17	37'-0"						
SUB-TOTAL					18,343								

TYPE-2

TYPE-3

TYPE-17

1. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
2. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, A501 IS A NO. 5 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED.

