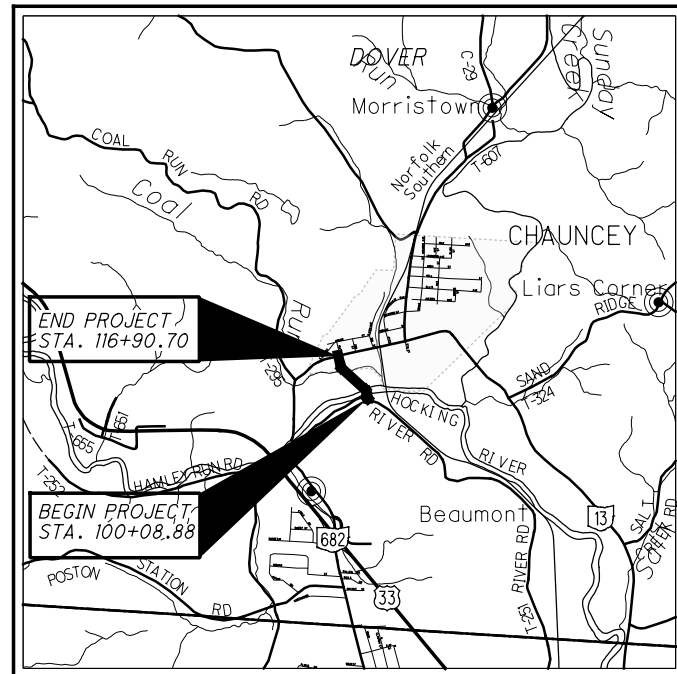


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LOCATION MAP

LATITUDE: 39°23'35" LONGITUDE: 82°07'57"



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

ADA DESIGN WAVERS
NONE REQUIRED

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
**ATH-CHAUNCEY
BIKEWAY EXTENSION**
VILLAGE OF CHAUNCEY
DOVER TOWNSHIP
ATHENS COUNTY

PROJECT DESCRIPTION

PHASE ONE CONSTRUCTION OF AN EXTENSION OF THE HOCKHOCKING ADENA BIKEWAY A PAVED MULTIUSE PATH. EXTENSION OF THE BIKEWAY TO THE VILLAGE OF CHAUNCEY BEGINS AT RIVER ROAD AND INCLUDES A BRIDGE ACROSS THE HOCKING RIVER TO TERMINATE AT MAIN STREET IN THE VILLAGE OF CHAUNCEY. TOTAL PROJECT LENGTH = 0.32 MILES

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 1.50 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.34 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 1.84 ACRES

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.

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

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC PLAN	2
TYPICAL SECTIONS	3
GENERAL NOTES	4 - 5
GENERAL SUMMARY	6 - 6B
ESTIMATED QUANTITIES	7 - 8
PROJECT SITE PLAN	9
PLAN & PROFILE	10 - 13
CROSS SECTIONS	14 - 22
TRAFFIC CONTROL	23-24
STRUCTURE OVER 20 FOOT SPAN	25- 53
RIGHT OF WAY	54 - 64
SUBSURFACE INVESTIGATION	65 - 76

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:



5202 BETHEL REED PARK, SUITE 200
COLUMBUS, OHIO 43220

ENGINEERS SEAL:
TRAIL SHEETS 1-24

SIGNED: *Joan M. Zbin*
DATE: 12/8/2023

ENGINEERS SEAL:
STRUCTURE SHEETS 25-53

SIGNED: *Mark D. Powell*
DATE: 12/8/2023

STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
DM-4.1	7/17/20	800	10/20/23 WATERWAY
RM-5.2	7/21/23	832	7/21/23 PERMIT
MT-97.10	4/19/19	940	4/17/15 CONDITIONS
MT-105.10	1/17/20		3/20/24
TC-41.20	10/18/13		
TC-41.40	10/18/13		
TC-41.50	10/18/13		
TC-42.10	10/18/13		
TC-52.10	10/18/13		
TC-52.20	1/15/21		
TC-83.20	7/15/23		

APPROVED *Ley Elmi*
DATE: 1-9-24 ATHENS COUNTY COMMISSIONERS

APPROVED *[Signature]*
DATE: 1-9-24 ATHENS COUNTY COMMISSIONERS

APPROVED *[Signature]*
DATE: 1-9-24 ATHENS COUNTY COMMISSIONERS

[Signature]
Rich Oster
District 10 Deputy Director

[Signature]
Jack Marchbanks, PhD
Director, Department of Transportation

FEDERAL PROJECT NO. E180230
CONSTRUCTION PROJECT NO. 106647
RAILROAD INVOLVEMENT NONE
ATH-CHAUNCEY BIKEWAY EXT. 1/76

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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
								28		36	01/ENH/28	ITEM	EXT	TOTAL				
																		28
											LS	503	11100	LS		STRUCTURE OVER 20 FOOT SPAN (PEDESTRIAN BRIDGE)		28
											139	503	21100	139	CY	COFFERDAMS AND EXCAVATION BRACING		
																UNCLASSIFIED EXCAVATION		
											720	504	11100	720	SF	STEEL SHEET PILING LEFT IN PLACE (S MIN = 9.0 INCHES CUBED PER FOOT)		
											LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION		
											480	507	00100	480	FT	STEEL PILES HP10X42, FURNISHED		
											420	507	00150	420	FT	STEEL PILES HP10X42, DRIVEN		
											36,068	509	10000	36,068	LB	EPOXY COATED STEEL REINFORCEMENT		
											71	511	34444	71	CY	CLASS QC2 CONCRETE, BRIDGE DECK		
											87	511	44110	87	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING		
											32	511	46510	32	CY	CLASS QC1 CONCRETE, FOOTING		
											366	512	10100	366	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
											30	512	33000	30	SY	TYPE 2 WATERPROOFING		
											125	516	13600	125	SF	1" PREFORMED EXPANSION JOINT FILLER		
											39	518	21200	39	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		
											32	518	40000	32	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		
											23	518	40010	23	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		
											41	526	10001	41	SY	REINFORCED CONCRETE APPROACH SLABS (T=12"), AS PER PLAN		27
											LS	SPECIAL	53000200	LS		STRUCTURES: PREFABRICATED STEEL BRIDGE		27,28,31
																STRUCTURE 20 FOOT SPAN AND UNDER (SOUTH CULVERT)		36
											LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING		
											LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION		
											405	507	00100	405	FT	STEEL PILES HP10X42, FURNISHED		
											360	507	00150	360	FT	STEEL PILES HP10X42, DRIVEN		
											6,930	509	10000	6,930	LB	EPOXY COATED STEEL REINFORCEMENT		
											6	511	46010	6	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING		
											38	511	46510	38	CY	CLASS QC1 CONCRETE, FOOTING		
											4	511	46610	4	CY	CLASS QC1 CONCRETE, HEADWALL		
											69	512	10100	69	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
											85	512	33000	85	SY	TYPE 2 WATERPROOFING		
											36	516	13600	36	SF	1" PREFORMED EXPANSION JOINT FILLER		
											35	518	21200	35	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		
											20	611	96448	20	FT	16' X 7' CONDUIT, TYPE A, 706.05		

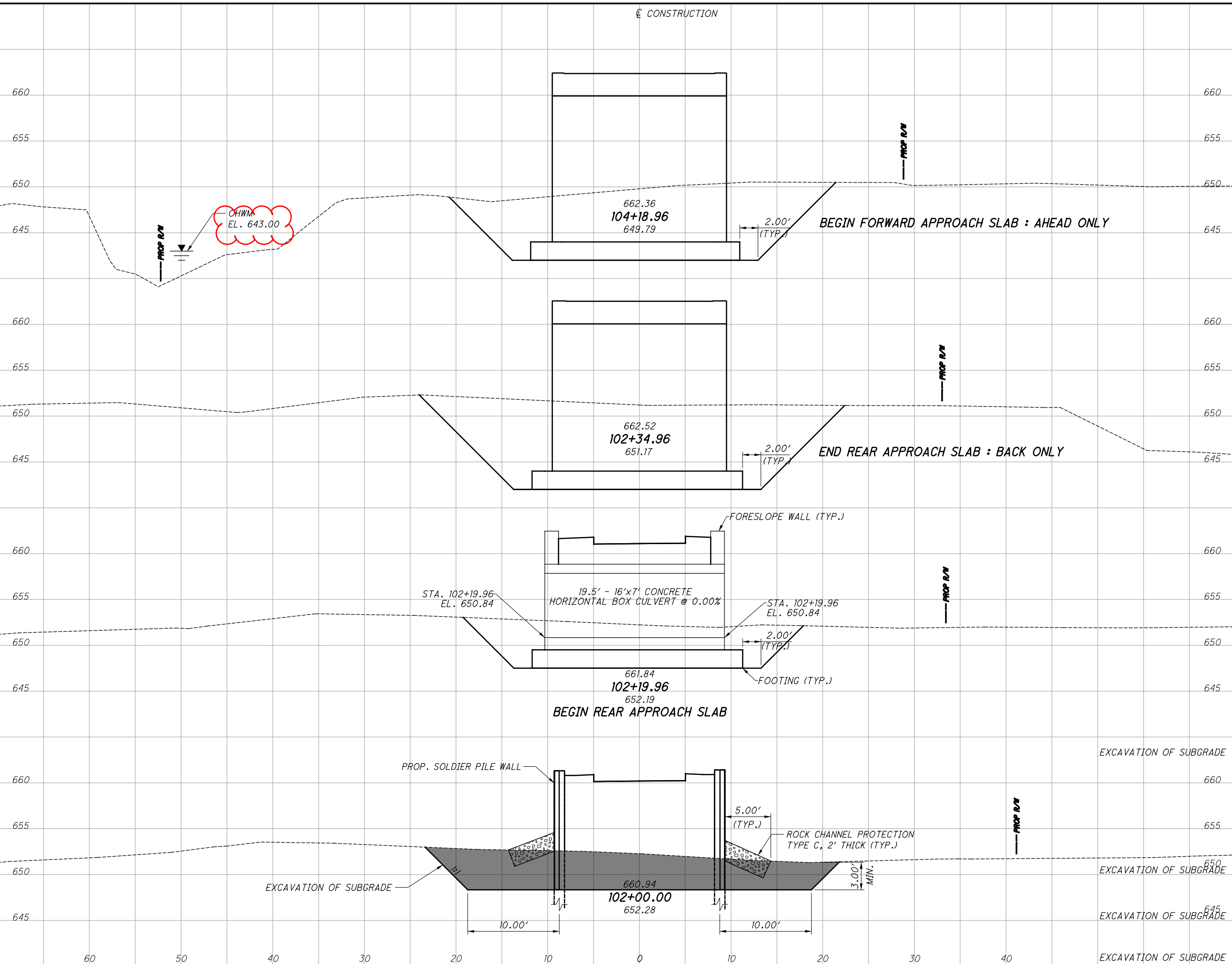
GENERAL SUMMARY

ATH-CHAUNCEY

CALCULATED
CEL
CHECKED
JMZ

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SEEDING	END	
	WIDTH	SO. YDS.
	60	293
	50	246
	40	29
	30	39
	20	7
	10	8
	0	3
	10	1



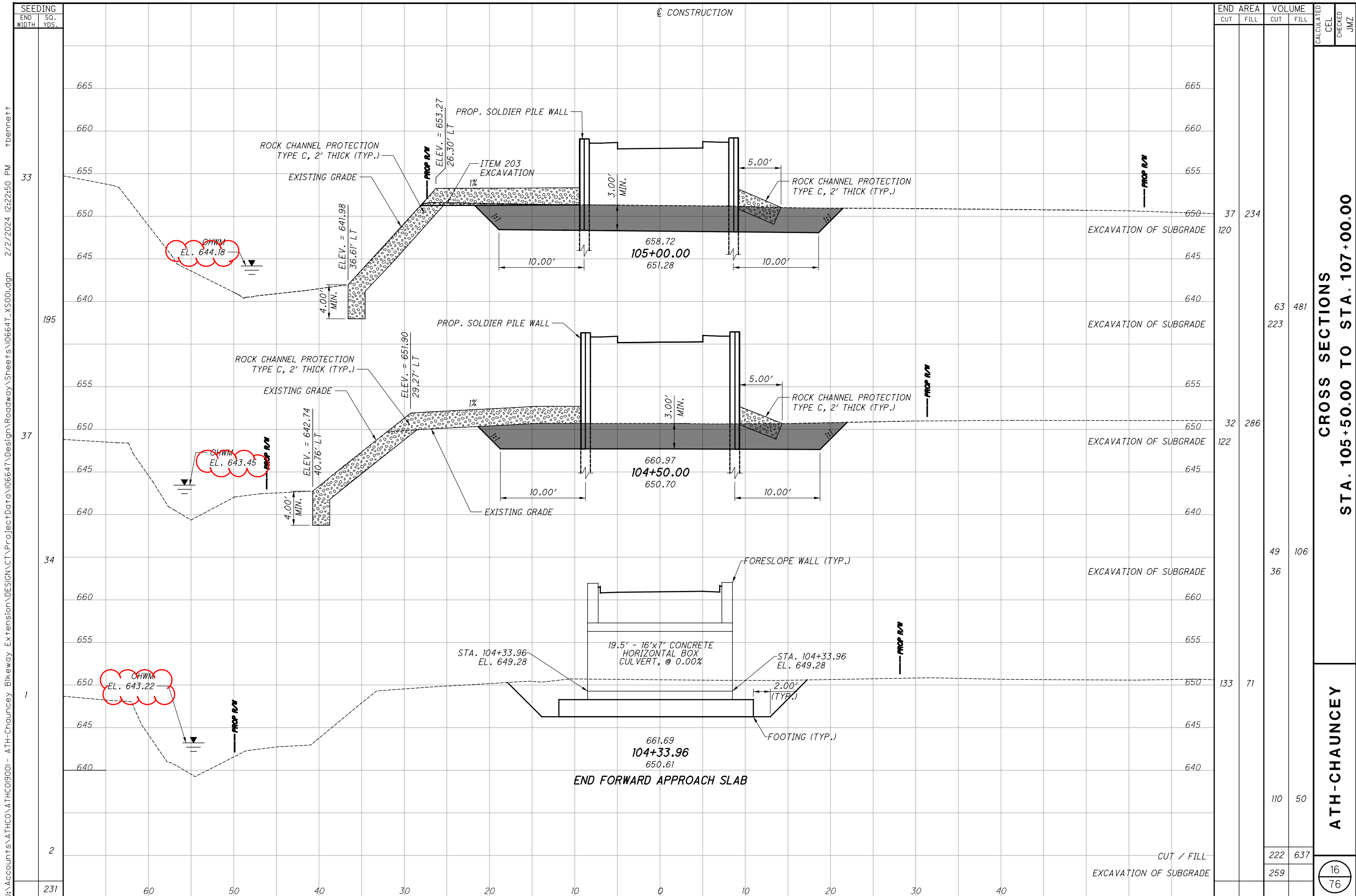
END AREA		VOLUME	
CUT	FILL	CUT	FILL
264	109		
346	162		
		139	65
156	84		
		57	138
0	290		
159			
		0	811
		404	
		197	1014
		463	

CROSS SECTIONS
STA. 102+00.00 TO STA. 105+00.00

ATH-CHAUNCEY

15
76

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CONSTRUCTION

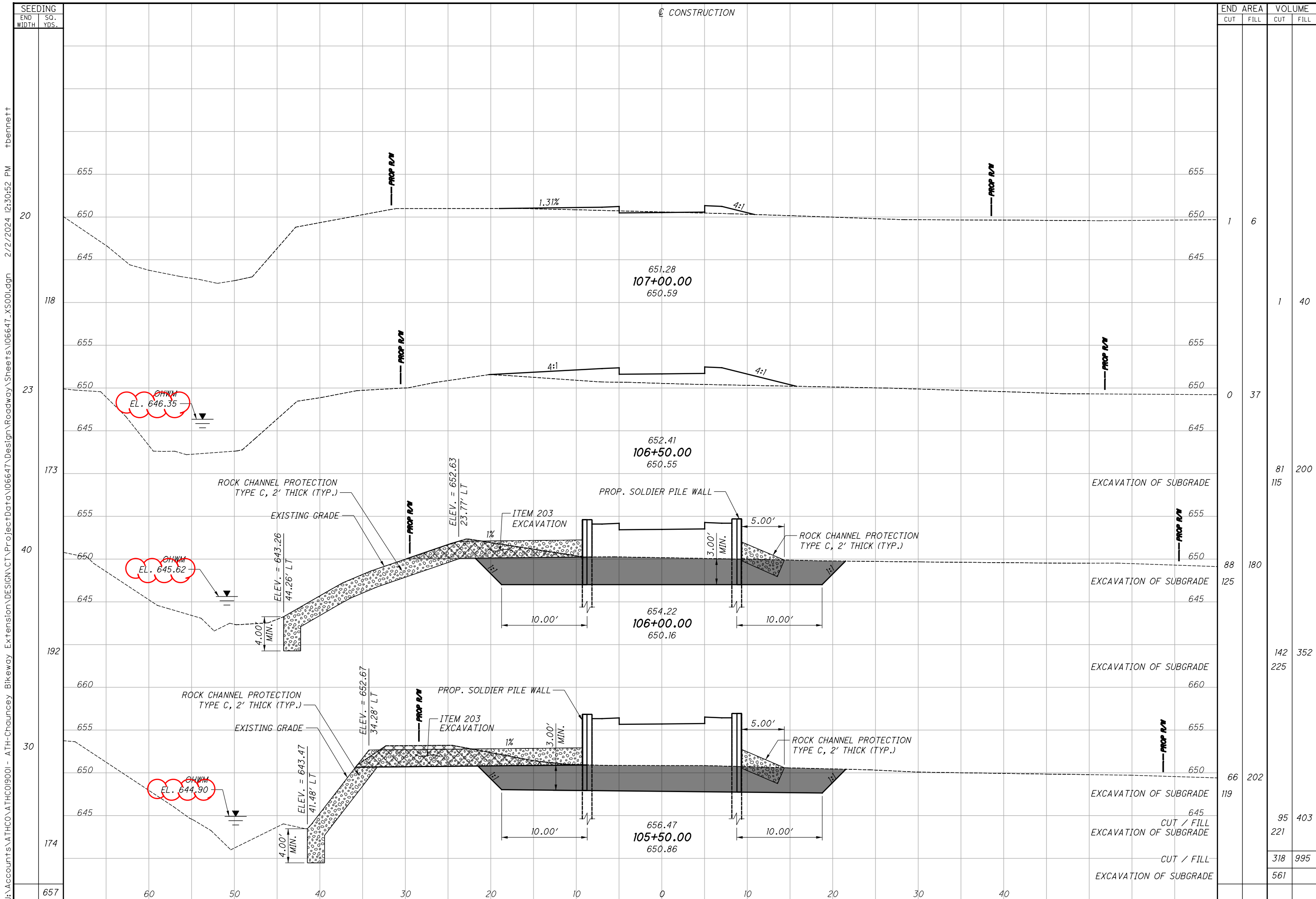
SEEDING	
END WIDTH	SO. YDS.
33	195
37	37
34	1
2	231

END AREA	VOLUME	CALCULATED	CHECKED						
				CUT	FILL	CUT	FILL	CEL	JMZ
37	234	120	63	481	223	49	106	110	50
32	286	122	36	106	133	71	222	637	16
133	71	133	71	259	76				

CROSS SECTIONS
STA. 105+50.00 TO STA. 107+00.00
ATH-CHAUNCEY

CUT / FILL
EXCAVATION OF SUBGRADE

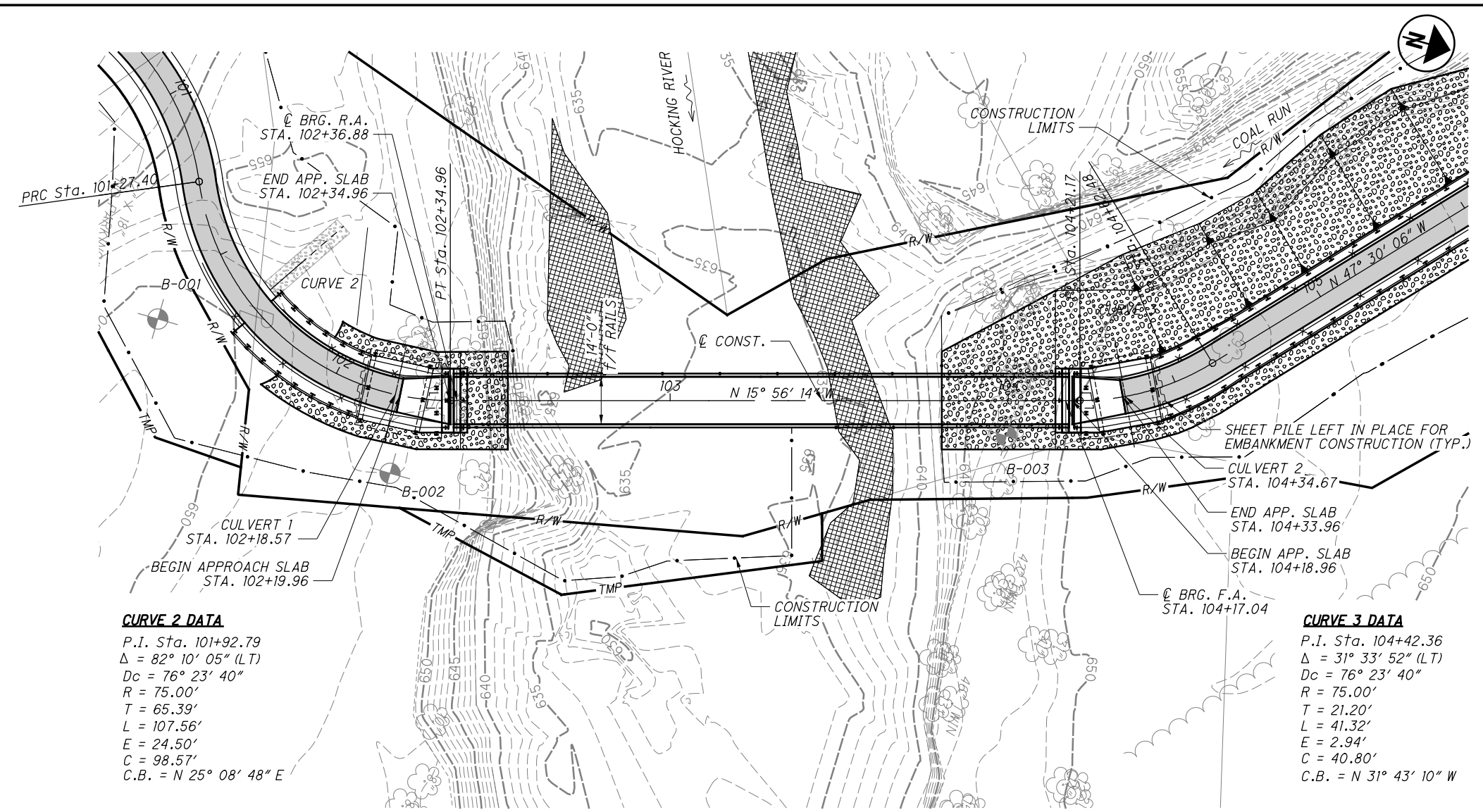
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END STA.	AREA		VOLUME		CALCULATED CEL	CHECKED JMZ
	CUT	FILL	CUT	FILL		
105+00.00	66	202	119	202		
106+00.00	88	180	125	180		
107+00.00	1	6	1	6		
TOTAL	155	388	245	388		

ATH-CHAUNCEY
CROSS SECTIONS
STA. 105+50.00 TO STA. 107+00.00

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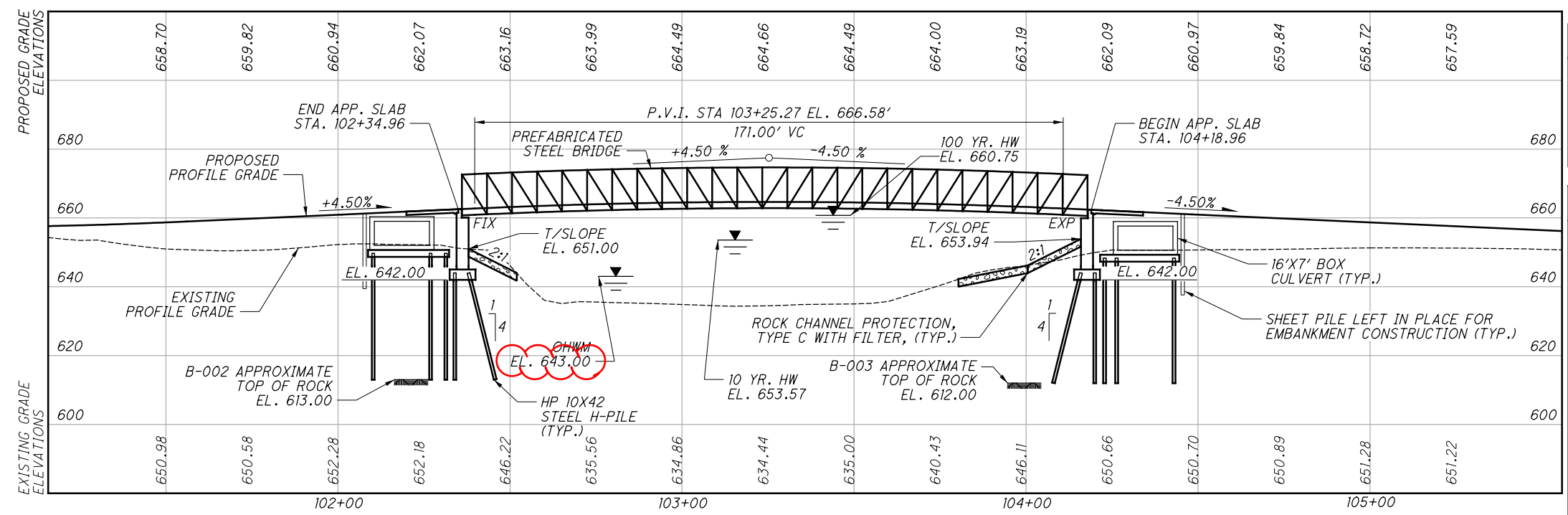
CURVE 2 DATA

P.I. Sta. 101+92.79
 $\Delta = 82^\circ 10' 05''$ (LT)
 $D_c = 76^\circ 23' 40''$
 $R = 75.00'$
 $T = 65.39'$
 $L = 107.56'$
 $E = 24.50'$
 $C = 98.57'$
 C.B. = N 25° 08' 48" E

CURVE 3 DATA

P.I. Sta. 104+42.36
 $\Delta = 31^\circ 33' 52''$ (LT)
 $D_c = 76^\circ 23' 40''$
 $R = 75.00'$
 $T = 21.20'$
 $L = 41.32'$
 $E = 2.94'$
 $C = 40.80'$
 C.B. = N 31° 43' 10" W

PLAN



PROFILE ALONG \hat{C} CONSTRUCTION

BENCHMARK DATA			
BM #1	STA. 100+04.86	ELEV. 658.63	OFFSET 10.46', RT.
BM #2	STA. 100+00.17	ELEV. 657.98	OFFSET 72.03', RT.
BM #3	STA. 101+27.55	ELEV. 656.64	OFFSET 49.87', RT.
BM #4	STA. 100+53.54	ELEV. 658.10	OFFSET 101.71', LT.
BM #5	STA. 115+95.71	ELEV. 650.81	OFFSET 11.72', LT.
BM #6	STA. 113+13.40	ELEV. 648.42	OFFSET 10.20', RT.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 76

NOTES

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
- ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES ARE TO REMAIN UNLESS NOTED OTHERWISE.
- FOR LIMITS OF ROCK CHANNEL PROTECTION, SEE SHEETS 10 AND 11 OF 76.
- THE SHEET PILING LEFT IN PLACE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS, 8TH EDITION. THE MINIMUM SECTION MODULUS FOR THE SHEETING SHALL BE 9.0 CUBIC INCHES PER FOOT. THE SHEETING SHALL BE AT LEAST ASTM GRADE A-572, MINIMUM YIELD STRENGTH SHALL BE 50 KSI.
- SHEET PILING LEFT IN PLACE BETWEEN CULVERT AND SOLDIER PILE WALL SHALL BE PROVIDED TO SUPPORT THE APPROACH TRAIL FILL DURING CULVERT CONSTRUCTION. ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO CONSTRUCT, MAINTAIN, AND CUT DOWN THE SHEET PILING LEFT IN PLACE SHALL BE INCLUDED FOR PAYMENT IN THE LUMP SUM PRICE BID FOR ITEM 504 - STEEL SHEET PILING LEFT IN PLACE.

LEGEND

- ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC, 2'-0" THICK
- SOIL BORING LOCATION
- WETLAND (DO NOT DISTURB)

HYDRAULIC DATA	
DRAINAGE AREA =	721.0 SQ. MILES
Q (10) =	19,300 CFS
Q (100) =	39,300 CFS
V (10) =	5.99 FT/S
V (100) =	5.18 FT/S
STRUCTURE CLEARS THE 10 YEAR DESIGN HW BY 7.19 FEET.	
STRUCTURE CLEARS THE 100 YEAR DESIGN HW BY 0.01 FEET.	

PROPOSED STRUCTURE	
TYPE:	SINGLE SPAN PREFABRICATED WEATHERING STEEL TRUSS SUPERSTRUCTURE, WITH CONCRETE ABUTMENTS ON PILES.
SPANS:	180'-2" c/c BEARINGS
ROADWAY:	14'-0" f/t RAIL
LOADING:	H-10 AND 90 PSF PEDESTRIAN LOAD
SKREW:	NONE
FUTURE WEARING SURFACE:	NONE
APPROACH SLABS:	15'-0" (T=8")
ALIGNMENT:	TANGENT
CROWN:	NONE
COORDINATES:	LATITUDE 39°23'34.58"
	LONGITUDE 82°07'57.08"
DECK AREA:	2,543 SF

DESIGN AGENCY	PENNONI ASSOCIATES INC.
DATE	7/9/21
REVIEWED	DJW
DRAWN	CJK
DESIGNED	MDP
ATHENS COUNTY	STA. 102+34.96
	STA. 104+18.96
SITE PLAN	ATH-CHAUNCEY HOCKHOCKING ADENA BIKEWAY EXTENSION OVER HOCKING RIVER
ATH-CHAUNCEY	PID No. 106647
	1/9
	25/76

SHEET NOT USED