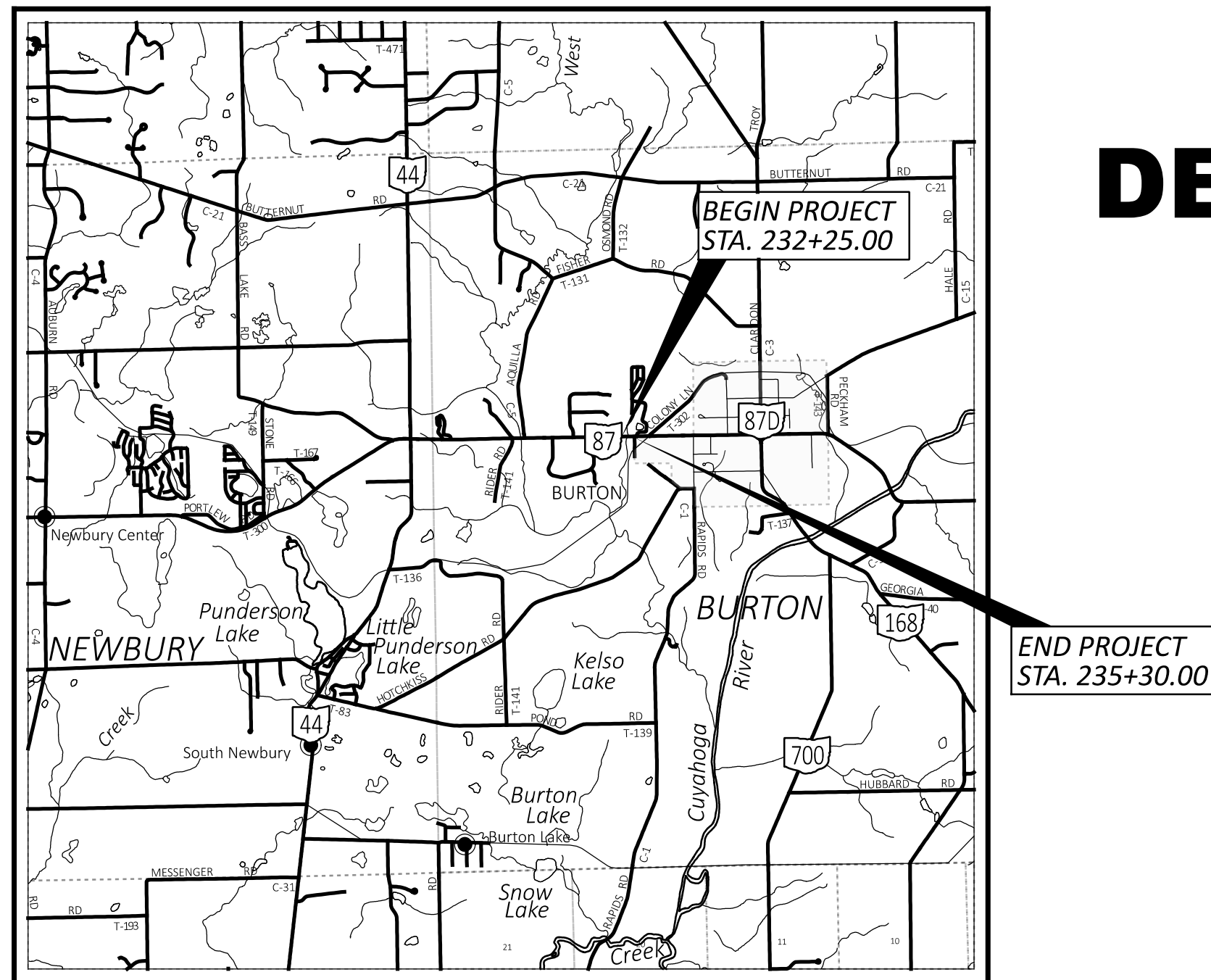


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

GEA-87-12.13

BURTON TOWNSHIP
GEAUGA COUNTY



LOCATION MAP

LATITUDE: N41°28'14.97" LONGITUDE: W81°09'48.83"



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

DESIGN DESIGNATION

CURRENT ADT (2025)	8800
DESIGN YEAR ADT (2045)	9700
DESIGN HOURLY VOLUME (2045)	1200
DIRECTIONAL DISTRIBUTION	58%
TRUCKS (24 HOUR B&C)	704
DESIGN SPEED	55
LEGAL SPEED	50
DESIGN FUNCTIONAL CLASSIFICATION:	
MAJOR COLLECTOR	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig


OHIO811.org
Before You Dig

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

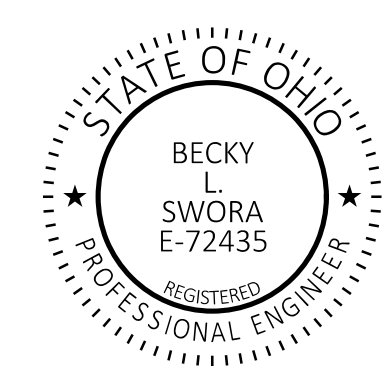
PLAN PREPARED BY:
OHM ADVISORS
580 NORTH FOURTH STREET, SUITE 610
COLUMBUS, OHIO 43215

INDEX OF SHEETS:

TITLE SHEET	1
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TRAFFIC CONTROL	24-25
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RIGHT OF WAY	SEE RW PLANS

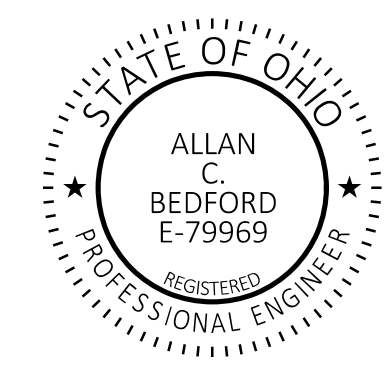
ENGINEER'S SEAL

ROADWAY



ENGINEER'S SEAL

BRIDGE



STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-3.1	1/19/24	CB-2-3,2-4	1/20/23	TC-61.30	7/19/19	MT-105.10	1/17/20	
BP-4.1	7/19/13			TC-65.10	1/17/14			
BP-5.1	7/15/22	DM-1.1	7/17/20	TC-65.11	1/19/24	AS-1-15	1/20/23	
		DM-4.1	7/17/20			AS-2-15	1/20/23	
MGS-1.1	7/16/21	DM-4.3	1/15/16	MT-95.45	7/21/23	ICD-2-18	1/19/24	
MGS-2.1	1/19/18	DM-4.4	1/15/16	MT-96.11	7/21/23	PCB-91	7/17/20	
MGS-3.1	1/19/18			MT-96.20	7/21/23	PSID-1-13	1/20/23	
MGS-4.2	7/19/13	MH-3	1-19-24	MT-96.26	1/18/19	SBR-1-20	7/21/23	
MGS-5.3	7/15/16			MT-97.10	4/19/19			
		HW-2.2	7/20/18	MT-97.12	1/20/17			
RM-1.1	1/20/23			MT-99.20	4/19/19			
		TC-41.20	10/18/23	MT-101.60	4/21/23			
		TC-42.20	10/18/13	MT-101.70	4/21/23			
		TC-52.10	10/18/13	MT-101.75	7/21/23			
		TC-52.20	1/15/21	MT-101.80	1/17/20			
		TC-61.10	4/21/23	MT-101.90	7/17/20			

FEDERAL PROJECT NUMBER

E230706

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

IMPROVEMENT OF 0.08 MILES OF SR-87 BY REPLACEMENT OF A STRUCTURALLY DEFICIENT BRIDGE (SFN 2800757) OVER HOPSONS CREEK AND RECONSTRUCTION OF THE APPROACH ROADWAY.

EARTH DISTURBED AREAS


PROJECT EARTH DISTURBED AREA:	0.56 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON 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.


John Picuri, P.E., P.S.
District 12 Deputy Director


Jack Marchbanks, PhD
Director, Department of Transportation

TITLE SHEET

DESIGN AGENCY



DESIGNER
BLS

REVIEWER
JLU 01/30/24

PROJECT ID
111000

SHEET TOTAL
P.1 52

GEA-87-12.13

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 10/14/2024 TIME: 7:46:40 AM USER: bswora P:\6101_6500\640622010_GEA-87-12.13\DOT\111000_GEA-87-12.13\00-Engineering\Roadway\Sheets\111000_GEA-87-12.13_G1001.dgn

SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	6	8	14	22	24	OFFICE CALCS	01/STR/10	EXT	TOTAL					
ROADWAY																
1									1	201	11000	LS			CLEARING AND GRUBBING	
					118			115	115	202	23500	115	SY		WEARING COURSE REMOVED	
					572				118	202	35200	118	FT		PIPE REMOVED, OVER 24"	
		10				334			572	202	38000	572	FT		GUARDRAIL REMOVED	
		6				128			344	203	10000	344	CY		EXCAVATION	
								1,058	134	203	20000	134	CY		EMBANKMENT	
1									1,058	204	10000	1,058	SY		SUBGRADE COMPACTION	
					288				1	204	45000	1	hour		PROOF ROLLING	
					2				288	606	15050	288	FT		GUARDRAIL, TYPE MGS	
									2	606	26150	2	EACH		ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
					2				2	606	26550	2	EACH		ANCHOR ASSEMBLY, MGS TYPE T	
					4				4	606	35002	4	EACH		MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
1									1	623	40900	1	EACH		MONUMENT, MISC.: #5 REBAR X 30" LONG	3
EROSION CONTROL																
					23				23	601	21060	23	SY		TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT UNDERLAYMENT	
					274				274	601	32104	274	CY		ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC	
704									704	659	00510	704	SY		SEEDING AND MULCHING, CLASS 2	
70									70	659	14000	70	SY		REPAIR SEEDING AND MULCHING	
4									4	659	35000	4	MGAL		WATER	
									1,400	832	30000	1,400	EACH		EROSION CONTROL	
DRAINAGE																
					0.92				0.92	602	20000	0.92	CY		CONCRETE MASONRY	
58									58	605	31100	58	FT		AGGREGATE DRAINS	
					65				65	611	10600	65	FT		24" CONDUIT, TYPE C	
					65				65	611	12100	65	FT		27" CONDUIT, TYPE C	
					1				1	611	98510	1	EACH		CATCH BASIN, NO. 2-3	
									1	611	99574	1	EACH		MANHOLE, NO. 3	
PAVEMENT																
									138	302	56000	138	CY		ASPHALT CONCRETE BASE, PG64-22, (449)	
									171	304	20000	171	CY		AGGREGATE BASE	
									81	407	20000	81	GAL		NON-TRACKING TACK COAT	
									34	441	70101	34	CY		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN, PG70-22M	3
									46	441	70300	46	CY		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
									3	441	70501	3	CY		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS), AS PER PLAN, PG70-22M	3
									5	441	70700	5	CY		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)	
					72				72	609	24510	72	FT		CURB, TYPE 4-C	
		15							15	617	10100	15	CY		COMPACTED AGGREGATE	
TRAFFIC CONTROL																
									10	621	00100	10	EACH		RPM	
									10	621	54000	10	EACH		RAISED PAVEMENT MARKER REMOVED	
									45	630	03100	45	FT		GROUND MOUNTED SUPPORT, NO. 3 POST	
									18	630	80100	18	SF		SIGN, FLAT SHEET	
									8	630	84900	8	EACH		REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
									6	630	86002	6	EACH		REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
									0.3	646	10010	0.3	MILE		EDGE LINE, 6"	
									0.35	646	10200	0.35	MILE		CENTER LINE	
STRUCTURE OVER 20 FOOT SPAN (GEA-87-1213)																
															FOR GEA-87-1213 ESTIMATED QUANTITIES	28

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
BLC
 REVIEWER
 JLU 01/30/24
 PROJECT ID
111000
 SHEET TOTAL
 P.12 | 52