



OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

THE JAMES W. SHOCKNESSY OHIO TURNPIKE

PROJECT NO. 43-22-03

BRIDGE DECK REPLACEMENT AND REHABILITATION

OHIO TURNPIKE OVER ABANDONED RAILROAD M.P. 98.9,
OHIO TURNPIKE OVER STATE ROUTE 510 M.P. 99.1
SANDUSKY COUNTY, OHIO

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OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION STANDARD DRAWINGS

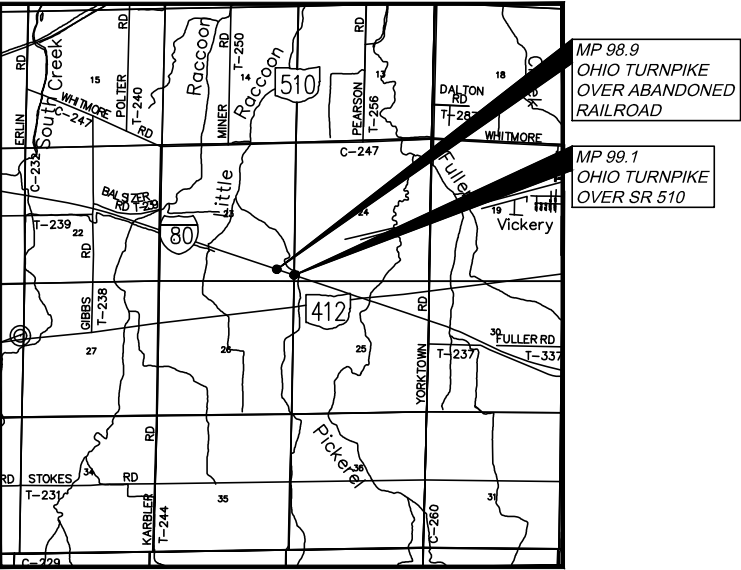
AS-1	12/31/2019	REINFORCED CONCRETE APPROACH SLAB
CB-2	10/20/2017	CATCH BASIN, NO. CB-1 RECONSTRUCTED
CBR-1	02/09/2021	CONCRETE BARRIER, TYPES B-50 AND C-30, AS PER PLAN
DJ-1	12/31/2019	DECK JOINT DETAILS
F-1	01/07/2021	RIGHT OF WAY FENCE
RPM-1	10/20/2017	RAISED PAVEMENT MARKER AND STRIPING LAYOUT
TC-2	10/20/2017	TRAFFIC CONTROL SPEED MEASUREMENT MARKING
TC-3	10/20/2017	TRAFFIC CONTROL MISCELLANEOUS DELINEATION
TCB-1	10/20/2017	REQUIREMENT FOR PORTABLE BARRIER SETTING AND REMOVAL OPERATIONS
TCR-1	01/07/2021	TEMPORARY TRAFFIC CONTROL GENERAL NOTES
TCR-2	01/07/2021	TEMPORARY TRAFFIC CONTROL DETAILS, LEGEND, NOTES AND STANDARD SINGLE LANE CLOSURE
TCR-9.1	10/20/2017	TEMPORARY TRAFFIC CONTROL LANE CLOSURE AT EXIT AND ENTRANCE RAMP
TCR-10	01/07/2021	TEMPORARY TRAFFIC CONTROL DOUBLE LANE CLOSURE
TCR-11PS	10/20/2017	TEMPORARY TRAFFIC CONTROL PAVEMENT STRIPING MOVING ZONE
TCR-12	01/07/2021	TEMPORARY TRAFFIC CONTROL SINGLE AND DOUBLE LANE SHIFT ZONES
TCR-13	01/07/2021	SONIC NAP ALERT PATTERN (SNAP)
TCR-14	01/07/2021	TEMPORARY TRAFFIC CONTROL SINGLE LANE CLOSURE WITH PORTABLE BARRIER
TCR-15	01/07/2021	TEMPORARY TRAFFIC CONTROL SIGNS FOR MAINTENANCE AND CONSTRUCTION
UD-1	09/19/2018	UNDER-DRAIN DETAILS

OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS

MGS-1.1	01/19/2018	GUARDRAIL DETAILS
MGS-2.1	01/19/2018	MIDWEST GUARDRAIL SYSTEM, STANDARD TYPE MGS
MGS-3.1	01/19/2018	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
MGS-3.2	01/18/2013	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2
MGS-4.3	01/18/2013	GUARDRAIL TRANSITIONS
MT-95.30	07/19/2019	CLOSING RIGHT OR LEFT LANE OF A MULTI-LANE DIVIDED HIGHWAY WITH DRUMS
MT-96.11	04/16/2021	SIGNALIZED CLOSING 1 LANE OF A 2-LANE HIGHWAY
MT-96.20	07/15/2016	DETAILS FOR SIGNALIZED CLOSING 1 LANE OF A 2-LANE HIGHWAY
MT-96.26	01/18/2019	TYPICAL WIRING DIAGRAM FOR ONE SIGNAL HEAD AND ONE DETECTOR
MT-103.10	01/19/2018	CONSTRUCTION ACCESS POINTS
MT-105.10	01/17/2020	TEMPORARY SIGN SUPPORT
SBR-1-13	07/20/2018	SINGLE SLOPE CONCRETE BRIDGE RAILING
TC-52.10	10/18/2013	SIGN BLANK DETAILS 1
TC-52.20	01/15/2021	SIGN BLANK DETAILS 2

OHIO DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND SUPPLEMENTS

SS 800	04/16/2021	REVISION TO THE 2019 CONSTRUCTION AND MATERIAL SPECIFICATIONS
SS 821	04/20/2012	ARROW BOARD
SS 832	10/19/2018	TEMPORARY SEDIMENT AND EROSION CONTROL
SS 849	01/18/2013	HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
SS 921	04/20/2012	ARROW BOARD
S 1021	01/18/2019	ARROW BOARD PREQUALIFICATION PROCEDURES



APPROVED FOR
THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
BY

Anthony D. Yaul
CHIEF ENGINEER

9-21-2021

DATE

UNDERGROUND UTILITIES

CONTACT ALL SERVICES AT LEAST
TWO WORKING DAYS BEFORE YOU DIG

CALL 1-800-362-2764 OR 811 (CELLULAR)

OR GO TO



OHIO OIL & GAS PRODUCERS UNDERGROUND
PROTECTION SERVICE CALL: 614-715-2984

OTIC DIVISION TRADES SUPERVISOR:
440-971-2731 - WEST (M.P. 0.0 - M.P. 126.4)
440-971-2781 - EAST (M.P. 126.4 - M.P. 241.26)

ENGINEERS SEAL



SIGNED: *Hamid V. Homaei*
DATE: 09/21/2021

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ESTIMATED QUANTITIES								
ITEM	TOTAL	UNIT	ITEM DESCRIPTION	GENERAL	M.P. 98.9	M.P. 99.1	SLOPE	SHT NO.
GENERAL								
IB. ART. 6	LUMP SUM	LUMP SUM	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND	LUMP SUM				
SP 614	LUMP SUM	LUMP SUM	MAINTAINING TRAFFIC	LUMP SUM				
SP 619	LUMP SUM	LUMP SUM	FIELD OFFICE	LUMP SUM				
SP 623	LUMP SUM	LUMP SUM	CONSTRUCTION LAYOUT SURVEY	LUMP SUM				
624	LUMP SUM	LUMP SUM	MOBILIZATION	LUMP SUM				
ROADWAY								
201	LUMP SUM	LUMP SUM	CLEARING AND GRUBBING	LUMP SUM				
202	225	FOOT	GUARDRAIL REMOVED		100		125	
202	50	FOOT	GUARDRAIL REMOVED FOR REUSE				50	
202	8	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED		4	4		
202	582	SQ YD	PAVEMENT REMOVED		443		139	
202	80	FOOT	CONCRETE BARRIER REMOVED		40	40		
202	125	FOOT	CURB REMOVED				125	
202	495	FOOT	FENCE REMOVED		495			
203	24,418	CU YD	EMBANKMENT (AS PER PLAN)		23,230		1,188	29
203	712	CU YD	EXCAVATION		616	96		
203	1,088	CU YD	EXCAVATION, AS PER PLAN				1,088	50
203	667	CU YD	EXCAVATION OF SUBGRADE		334	333		
204	6,518	SQ YD	SUBGRADE COMPACTION		5,946	433	139	
204	9	HOOR	PROOF ROLLING		8		1	
254	2,951	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE (3")		307	2,644		
SP 302	1,936	CU YD	ASPHALT CONCRETE BASE, PG64-22		1,912		24	
SP 304	1,748	CU YD	AGGREGATE BASE		1,652	72	24	
SP 304	394	CU YD	AGGREGATE BASE (TOE KEY)				394	
407	2,117	GAL	NON-TRACKING TACK COAT		1,707	397	13	
441	8	CU YD	2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22				8	
SP 402	406	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, PG 70-22 (FR) (T=1 3/4")		277	129		
SP 404	290	CU YD	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 70-22 (FR) (T=1 1/4")		198	92		
SP 451	100	SQ YD	FULL DEPTH PAVEMENT REPAIRS (ASPHALT)			100		
SP 605	1,400	FOOT	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP		1,400			
SP 605	3,500	FOOT	6" BASE PIPE UNDERDRAIN		3,500			
606	50	FOOT	GUARDRAIL REBUILT				50	
606	525	FOOT	GUARDRAIL, TYPE MGS, USING STEEL POSTS		525			
606	125	FOOT	GUARDRAIL, TYPE MGS, USING LONG STEEL POSTS				125	
606	2	EACH	MGS BRIDGE TERMINAL, TYPE 1, USING STEEL POSTS			2		
606	2	EACH	MGS BRIDGE TERMINAL, TYPE 2, USING STEEL POSTS			2		
607	360	FOOT	FENCE, TYPE 47		360			
609	825	FOOT	ASPHALT CONCRETE CURB, TYPE 1		700		125	
SP 611	100	FOOT	6" CONDUIT, TYPE F, 707.33		100			
SP 611	5	EACH	CATCH BASIN ADJUSTED TO GRADE		3	2		
614	LUMP SUM	LUMP SUM	DETOUR SIGNING	LUMP SUM				
614	5	EACH	REPLACEMENT SIGN	5				
614	5	EACH	WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)	5				
614	1,156	DAYS	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	1,156				4
614	10,272	HOURS	ZONE PERSON	10,272				
614	280	EACH	OBJECT MARKER, 1-WAY	280				
SPECIAL	15,000	FOOT	"SNAP" MILL AND FILL	15,000				
SP 614C	8.85	MILE	REMOVAL OF PAVEMENT MARKING	8.85				
SP 621	212	EACH	RAISED PAVEMENT MARKING, AS PER PLAN #1	212				
SP 621	248	EACH	RAISED PAVEMENT MARKING, AS PER PLAN #2	248				
SP 622	1	LUMP SUM	PORTABLE BARRIER	1				
SP 622	1	LUMP SUM	PORTABLE BARRIER, BRIDGE MOUNTED	1				
622	350	FOOT	CONCRETE BARRIER, TYPE B-50, AS PER PLAN	300	50			
622	50	FOOT	CONCRETE BARRIER, TYPE B		50			
623	1	EACH	MONUMENT BOX ADJUSTED TO GRADE		1			
625	1	EACH	LIGHT POLE, MISC.: REMOVAL, STORAGE, REERECTION				1	
625	1	EACH	LIGHT POLE FOUNDATION REMOVAL AND DISPOSAL				1	
625	1	EACH	LIGHT POLE FOUNDATION, 24" X 10" DEEP				1	
SP 626	2	EACH	BARRIER REFLECTOR, TYPE A (WHITE)				2	
630	6	EACH	SIGNING MISC.: LOW CLEARANCE SIGN			6		
630	16	SQ FT	SIGNING MISC.: ADDITIONAL SIGNS GROUND MOUNTED, AS PER DIRECTED BY THE ENGINEER	16				
642	8.85	MILE	PAVEMENT MARKING MISC.: FINAL PAVEMENT MARKING PREPARATION	8.85				
642	3.35	MILE	EDGE LINE, 4", TYPE 1	3.35				
642	5.50	MILE	LANE LINE, 4", TYPE 1	5.50				
659	548	CU YD	TOPSOIL	486	62			
659	4,931	SQ YD	SEEDING AND MULCHING, AS PER PLAN	4,375			556	13
671	556	SQ YD	EROSION CONTROL MAT				556	

ESTIMATED QUANTITIES								
ITEM	TOTAL	UNIT	ITEM DESCRIPTION	GENERAL	M.P. 98.9	M.P. 99.1	SLOPE	SHT NO.
EROSION CONTROL								
832	100,000	EACH		100,000				
SP 113	LUMP SUM	LUMP SUM	STORM WATER POLLUTION PREVENTION PLAN (SWP3) MANAGEMENT	LUMP SUM				
SPECIAL	125	FOOT	BENCHING SLOPE DRAIN				125	50
STRUCTURES								
ITEM	TOTAL	UNIT	ITEM DESCRIPTION	GENERAL	M.P. 98.9	M.P. 99.1	SLOPE	SHT NO.
SP 202	LUMP SUM	LUMP SUM	PORTIONS OF STRUCTURE REMOVED	LUMP SUM				
503	LUMP SUM	LUMP SUM	COFFERDAMS AND EXCAVATION BRACING	LUMP SUM				
SP 509	132,237	POUND	EPOXY COATED REINFORCING STEEL, GRADE 60			132,237		
SP 509	200	POUND	EPOXY COATED REINFORCING STEEL, GRADE 60, REPLACEMENT OF EXISTING REINFORCING STEEL			200		
SP 511B	94	CU. YD.	CLASS HP4 CONCRETE (ABUTMENT SLABS)			94		
SP 511B	350	CU. YD.	CLASS HP4 CONCRETE, SUPERSTRUCTURE DECK SLAB			350		
SP 511B	75	CU. YD.	CLASS S CONCRETE, BARRIERS AND PARAPETS, USING TYPE 1 CEMENT			75		
SP 511B	12	CU. YD.	CLASS HP4 CONCRETE FOR PREPLACEMENT TESTING			12		
516	36	EACH	ELASTOMERIC BEARING PAD			36		
516	20	EACH	RESET BEARING			20		
SP 516A	40	FOOT	CRACK REPAIR USING EPOXY INJECTION			40		
SP 516B	942	FOOT	SEALING OF CONSTRUCTION JOINTS			942		
SP 516G	18	EACH	REPLACE EXPANSION BEARING DEVICE			18		
SP 516J	18	EACH	REPLACE FIXED BEARING DEVICE			18		
518	53	CU. YD.	POROUS BACKFILL WITH GEOTEXTILE FABRIC			53		
518	260	FOOT	6" PERFORATED CORRUGATED PLASTIC PIPE			260		
518	60	FOOT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE			60		
SP 519	80	SQ. FT.	PATCHING OF CONCRETE STRUCTURES			80		
SP 519	20	EACH	PATCHING OF CONCRETE STRUCTURES (BEARING PEDESTAL REPAIR)			20		14
526	433	SQ. YD.	REINFORCED CONCRETE APPROACH SLABS			433		
SP 527	1	LUMP SUM	FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES			LUMP SUM		
SP 533	132	FOOT	3" CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINT			132		
SP 533A	132	FOOT	ELASTOMERIC COMPRESSION SEAL IN STRUCTURAL STEEL JOINT			132		
SP 536	2,082	SQ. YD.	CONCRETE WEATHERPROOFING, DECK AND APPROACH SLABS			2,082		
SP 536	938	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE			938		
849	LUMP SUM	LUMP SUM	STRAIGHTENING DAMAGED MEMBERS			LUMP SUM		14, 44, 45

<div><div>15</div><div>50</div></div>	<div>PROJECT 43-22-03</div> <div>DATE: 9/28/2020</div>	ESTIMATED QUANTITIES										DESIGN AGENCY							
		SANDUSKY COUNTY										NO.		REV/ISSONS		BY DATE			
												MTG		SJP/RY		ADDENDUM 4		MTG 09/21	
												CALC-STRUCT		IN CHARGE		ADDENDUM 5		MTG 09/21	
												RAP		HVH		ADDENDUM 6		MTG 09/21	
		M.P. 98.9 AND 99.1										CALC-ROAD		ADDENDUM 4		MTG 09/21			
		M.P. 98.9 AND 99.1										CALC-STRUCT		ADDENDUM 5		MTG 09/21			
		M.P. 98.9 AND 99.1										RAP		ADDENDUM 6		MTG 09/21			
		M.P. 98.9 AND 99.1										CALC-ROAD		ADDENDUM 4		MTG 09/21			
		M.P. 98.9 AND 99.1										CALC-STRUCT		ADDENDUM 5		MTG 09/21			