
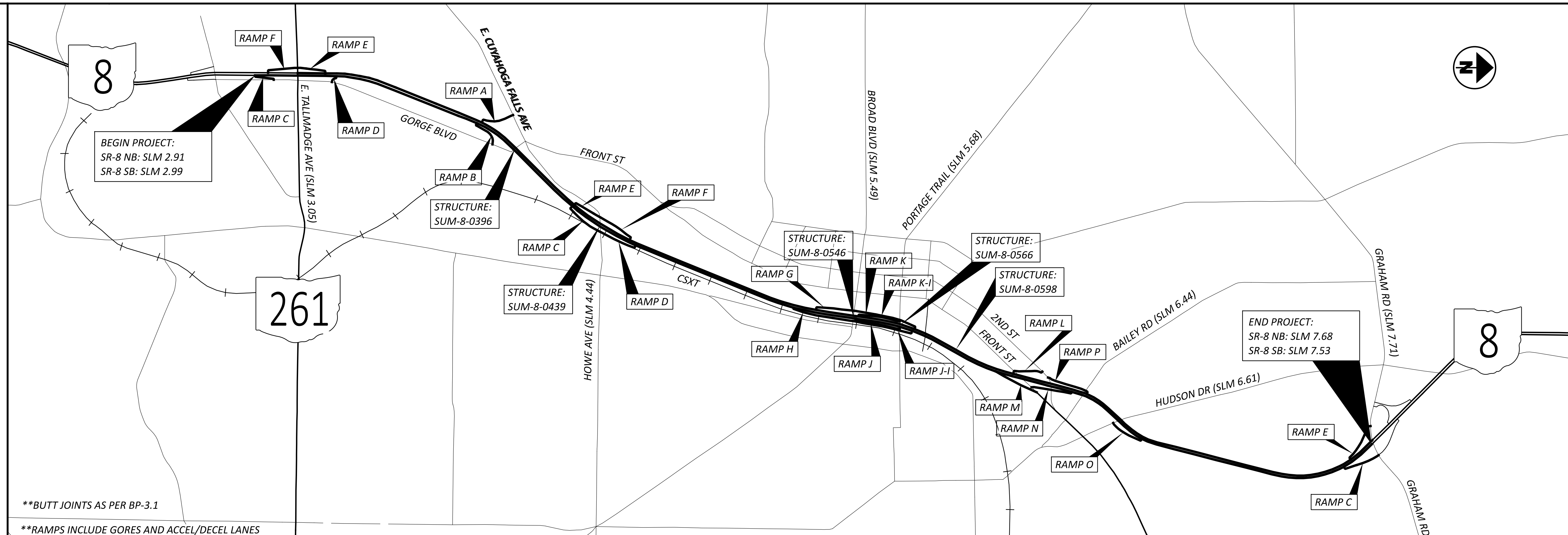


SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	7	8	9	13	14	15	16	20	01/NHS/05	02/NHS/47						
ROADWAY																		
	132										132		202	98100	132	EACH	REMOVAL MISC.: BARRIER REFLECTOR	5
84											84		203	10000	84	CY	EXCAVATION	
246											246		209	60200	246	STA	LINEAR GRADING	
	36										36		623	39501	36	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN	5
	LS										LS		SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	5
	6										6		SPECIAL	69098000	6	EACH	VERTICAL CLEARANCE	5
EROSION CONTROL																		
											3,000		832	30000	3,000	EACH	EROSION CONTROL	
DRAINAGE																		
	2										2		611	98630	2	EACH	CATCH BASIN ADJUSTED TO GRADE	
	5										5		611	99150	5	EACH	INLET ADJUSTED TO GRADE	
	11										11		611	99654	11	EACH	MANHOLE ADJUSTED TO GRADE	
	10										10		611	99660	10	EACH	MANHOLE RECONSTRUCTED TO GRADE	
	4,650										4,650		SPECIAL	61199820	4,650	LB	MISCELLANEOUS METAL	5
PAVEMENT																		
2,300											2,300		251	01000	2,300	SY	PARTIAL DEPTH PAVEMENT REPAIR (441) (LONGITUDINAL)	
700											700		251	01000	700	SY	PARTIAL DEPTH PAVEMENT REPAIR (441) (TRANSVERSE)	
2,275											2,275		252	01500	2,275	FT	FULL DEPTH PAVEMENT SAWING	
						308,216	56,400				364,616		254	01000	364,616	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T=1 1/2")	
500											500		255	17000	500	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 1, CLASS RRCM	
84											84		304	20000	84	CY	AGGREGATE BASE	
						27,740	5,076				32,816		407	20000	32,816	GAL	NON-TRACKING TACK COAT	
						4,757	1,325				6,082		408	10001	6,082	GAL	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY adjusted quantity	4
						9,042	1,453				10,495		442	00100	10,495	CY	ANTI-SEGREGATION EQUIPMENT	
						12,843	2,350				15,193		442	10331	15,193	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PWL 2025, AS PER PLAN (T=1 1/2")	4
						661	184				845		617	10101	845	CY	COMPACTED AGGREGATE, AS PER PLAN (T=2")	4
						19					19		618	40600	19	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
							42.98				42.98		850	10010	42.98	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
							11,175				11,175		850	10130	11,175	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
WATER WORK																		
	4										4		638	10800	4	EACH	VALVE BOX ADJUSTED TO GRADE	
TRAFFIC CONTROL																		
	535										535		626	00102	535	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	
	117										117		626	00110	117	EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY)	
								589			589		630	02100	589	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
								132			132		630	80100	132	SF	SIGN, FLAT SHEET	
								36			36		630	80100	36	SF	SIGN, FLAT SHEET, 730.20	
								58			58		630	84900	58	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
								58			58		630	86002	58	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								250			250		646	10400	250	FT	STOP LINE	
								108			108		646	10510	108	FT	CROSSWALK LINE, 12"	
		82									82		646	10511	82	FT	CROSSWALK LINE, 12", AS PER PLAN	6
								31			31		646	20300	31	EACH	LANE ARROW	
								23			23		646	20320	23	EACH	WRONG WAY ARROW	
								24.36			24.36		807	12010	24.36	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"	
								18.62			18.62		807	12110	18.62	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	
								11,175			11,175		807	12310	11,175	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"	

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER: JRF
 REVIEWER: MA 01-19-24
 PROJECT ID: 100936
 SHEET: P.11 TOTAL: 22



**BUTT JOINTS AS PER BP-3.1
 **RAMPS INCLUDE GORES AND ACCEL/DECEL LANES

SLM RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	254	407	408	442	442	617																										
							PAVEMENT PLANING, ASPHALT CONCRETE (T=1 1/2") SY	NON-TRACKING TACK COAT@ 0.09 GAL/SY	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PWL 2025, AS PER PLAN (T=1 1/2") CY	ANTI-SEGREGATION EQUIPMENT CY	COMPACTED AGGREGATE, AS PER PLAN (T=2") CY																										
			FT	FT	SY	SY	SY	GAL	GAL	CY	CY	CY																										
RAMP C - HOWE AVE	2	NB	1465.00	20	3232.78	3232.78	290.95	130.22	134.70	80.44	18.09																											
RAMP D - HOWE AVE	2	NB	1707.00	21	3903.78	3903.78	351.34	151.73	162.66	99.44	21.07																											
RAMP E - HOWE AVE	2	SB	1480.00	17	2866.67	2866.67	258.00	131.56	119.44	64.63	18.27																											
RAMP F - HOWE AVE	2	SB	1538.00	18	3063.33	3063.33	275.70	136.71	127.64	70.68	18.99																											
RAMP G - BROAD BLVD	2	SB	1460.00	22	3614.44	3614.44	325.30		150.60	96.53																												
RAMP H - BROAD BLVD	2	NB	1711.00	24	4535.89	4535.89	408.23		189.00	125.63																												
RAMP J - PORTAGE TRAIL	2	NB	1062.00	17	1978.78	1978.78	178.09		82.45	43.12																												
RAMP K - PORTAGE TRAIL	2	SB	1170.00	19	2455.33	2455.33	220.98		102.31	58.97																												
RAMP J-I - BROAD BLVD	2	NB	1628.00	26	4626.44	4626.44	416.38	144.71	192.77	132.47	20.10																											
RAMP K-I - BROAD BLVD	2	SB	1565.00	28	4891.44	4891.44	440.23	139.11	203.81	145.85	19.32																											
RAMP L - FRONT ST	2	SB	925.00	23	2328.78	2328.78	209.59		97.03	62.77																												
RAMP M - FRONT ST	2	NB	760.00	24	2017.11	2017.11	181.54	67.56	84.05	55.90	9.38																											
RAMP N - FRONT ST	2	NB	1264.00	19	2713.22	2713.22	244.19		113.05	66.24																												
RAMP P - FRONT ST	2	SB	1750.00	18	3467.44	3467.44	312.07		144.48	79.66																												
RAMP O - HUDSON DR	2	NB	1526.00	19	3168.67	3168.67	285.18	135.64	132.03	75.51	18.84																											
RAMP C - GRAHAM RD	2	NB	1530.00	23	3947.89	3947.89	355.31	136.00	164.50	107.83	18.89																											
RAMP E - GRAHAM RD	2	SB	1704.00	19	3587.44	3587.44	322.87	151.47	149.48	86.37	21.04																											
SUBTOTALS							56399.44	5075.95	1324.71	2349.98	1452.01	183.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
TOTALS CARRIED TO GENERAL SUMMARY							56400	5076	1325	2350	1453	184	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PAVEMENT CALCULATIONS

DESIGN AGENCY

DESIGNER: JRF

REVIEWER: MA 01-19-24

PROJECT ID: 100936

SHEET: P.14 TOTAL: 22

CALC: JRF DATE: 12/18/2023
 CHECKED: MA DATE: 1/19/2024

ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SUBSET SHEET
SUM-8-3.960 7700555 02/NHS/47	SUM-8-4.388 7700563 02/NHS/47	SUM-8-5.461 7700598 02/NHS/47	SUM-8-5.660 7700636 02/NHS/47	SUM-8-5.975 7700644 02/NHS/47	SUM-8-6.165 7710798 02/NHS/47	SUM-8-6.295L 7710887 02/NHS/47	SUM-8-6.433 7710828 02/NHS/47					
LS	LS	LS	LS	LS	LS	LS	LS	201	11001	LS	CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS	1 / 6
	75	10						251	01000	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	1 / 6
					100	50		509	10000	LB	EPOXY COATED REINFORCING STEEL	2 / 6
43	24	23	32		56	23	50	512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	1 / 6
385	210	205	275		550	220	220	SPECIAL	51900100	SF	COMPOSITE FIBER WRAP SYSTEM	
125	100	125	280				450	519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	1 / 6
25	10	15						SPECIAL	53000800	SY	STRUCTURES: CONCRETE SPALL REMOVAL WITH ZINC RICH PRIMER APPLIED	2 / 6
					500	200		844	10000	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION	2 / 6
100	118	114		219				846	00110	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	
225	90	135						843	50000	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	

CALC: JRF DATE: 12/18/2023
 CHECKED: MA DATE: 1/19/2024

ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SUBSET SHEET
SUM-8-6.608 7700652 02/NHS/47	SUM-8-7.408 7700679 02/NHS/47	SUM-261-11.882 7700423 02/NHS/47	SUM-8-5.590J 7700628 02/NHS/47	SUM-8-5.610K 7700601 02/NHS/47								
LS	LS	LS	LS	LS				201	11001	LS	CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS	1 / 6
	100		50	100				509	10000	LB	EPOXY COATED REINFORCING STEEL	2 / 6
12	84	34	43	54				512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	1 / 6
	LS							516	47001		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	2 / 6
110	1015	330	410	300				SPECIAL	51900100	SF	COMPOSITE FIBER WRAP SYSTEM	
100		300						519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	1 / 6
	720		270	270				843	50000	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	
	80		30	30				SPECIAL	53000800	SY	STRUCTURES: CONCRETE SPALL REMOVAL WITH ZINC RICH PRIMER APPLIED	2 / 6
	35		100					844	10000	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION	2 / 6
			26	26				516	10010	FT	ARMORLESS PREFORMED JOINT SEAL	2 / 6
	160							SPECIAL	69098300	SY	DEBRIS CONTAINMENT SYSTEM REMOVAL AND REPLACEMENT	2 / 6

corrected

STRUCTURE ESTIMATED QUANTITIES

SUM-8-3.960, SUM-8-4.388, SUM-8-5.461, SUM-8-5.660, SUM-8-5.975, SUM-8-6.165, SUM-8-6.295L
 SUM-8-6.433, SUM-8-6.608, SUM-8-7.408, SUM-261-11.882, SUM-8-5.560J, SUM-8-5.610K

SFN

VARIOUS

DESIGN AGENCY



DESIGNER: JRF
 CHECKER: MA

REVIEWER: TJP
 DATE: 01-19-24

PROJECT ID: 100936

SUBSET	TOTAL
4	6

SHEET	TOTAL
P.20	22