

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## SUM-271/8-8.49/VAR

BOSTON AND NORTHFIELD CENTER TOWNSHIP

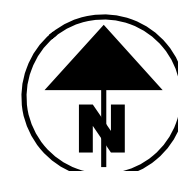
CITY OF MACEDONIA

SUMMIT COUNTY



**LOCATION MAP**

LATITUDE: 41°17'04" LONGITUDE: 81°31'33"



END PROJECT  
SUM IR 271 NB SLM: 12.44  
SUM IR 271 SB SLM: 12.52

BEGIN PROJECT  
SUM IR 271 SLM: 8.54

**FEDERAL PROJECT NUMBER**

E170(438)

**RAILROAD INVOLVEMENT**

NONE

**PROJECT DESCRIPTION**

RESURFACING OF SUM IR 271 FROM SLM 8.54 TO SLM 12.52. INCLUDES RETAINING WALL REPAIRS, MINOR WORK TO 12 STRUCTURES AND 5 CONDUITS.

**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA: 2.4 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 1.0 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)  
\*ROUTINE MAINTENANCE PROJECT

**LIMITED ACCESS**

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

**2019 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 EXCEPT AS NOTED ON SHEET P.8-13A, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

**DISTRICT DEPUTY DIRECTOR**

*Arthur G. Noiro Jr.*  
Arthur G. Noiro Jr., P.E.  
04

**DIRECTOR, DEPARTMENT OF TRANSPORTATION**

*John Markandis*

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

**DESIGN DESIGNATION**

DESIGN FUNCTIONAL CLASSIFICATION:  
FREEWAYS AND EXPRESSWAYS  
NHS PROJECT

**DESIGN EXCEPTIONS**

NONE

**ADA DESIGN WAIVERS**

NONE

**UNDERGROUND UTILITIES**  
Contact Two Working Days  
Before You Dig

**OHIO811.org**  
Before You Dig

OHIO 811, 8-1-1, or 1-800-362-2764  
(Non members must be called directly)

PLAN PREPARED BY:  
ODOT DISTRICT 4, CAPITAL PLANNING  
2088 S. ARLINGTON ROAD  
AKRON, OHIO 44306

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	MT-95.30	7/19/19	TC-41.20	10/18/13	800-2019 - SEE PROPOSAL	WPC 3/29/23
BP-3.2	1/18/19	MT-95.50	7/21/17	TC-42.10	10/18/13	808 1/18/19	
BP-4.1	7/19/13	MT-98.10	1/17/20	TC-42.20	10/18/13	821 4/20/12	
BP-9.1	1/18/19	MT-98.11	1/17/20	TC-52.10	10/18/13	832 7/15/22	
		MT-98.20	4/19/19	TC-52.20	1/15/21	833 1/21/22	
DM-1.1	7/17/20	MT-98.22	1/17/20	TC-65.10	1/17/14	840 4/15/22	
DM-4.1	7/17/20	MT-98.29	1/17/20	TC-65.11	7/15/22	843 10/18/19	
DM-4.3	1/15/16	MT-99.20	4/19/19	TC-71.10	7/15/22	899 1/17/20	
DM-4.4	1/15/16	MT-101.90	7/17/20	TC-72.20	7/20/18	921 4/20/12	
		MT-104.10	10/16/15	TC-73.20	1/17/20	807 1/21/22	
EXJ-2-81	7/15/22	MT-105.10	1/17/20			850 4/15/22	
HW-1.1	7/20/18						
HW-2.1	7/20/18						
NBS-1-09	7/15/22						

ENGINEER'S SEAL  
ROADWAY



TITLE SHEET

DESIGN AGENCY



DESIGNER

ROF

REVIEWER

MJA 02/03/23

PROJECT ID

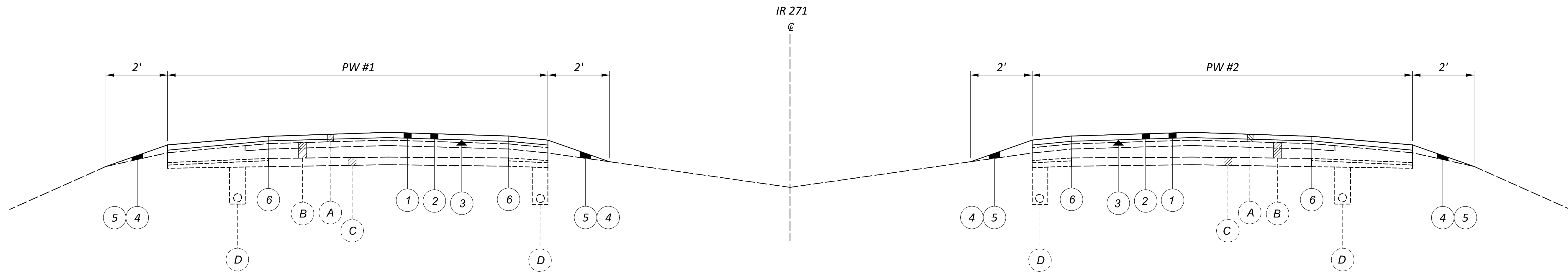
93101

SHEET TOTAL

P.1 39

SUM-271/8-8.49/VAR

MODEL: Sheet PAPER: 34x22 (in.) DATE: 5/22/2023 TIME: 10:32:28 AM USER: jltzsim pvc:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 04\Summit\93101\400-Engineering\Roadway\Sheets\93101\_GT001.dgn



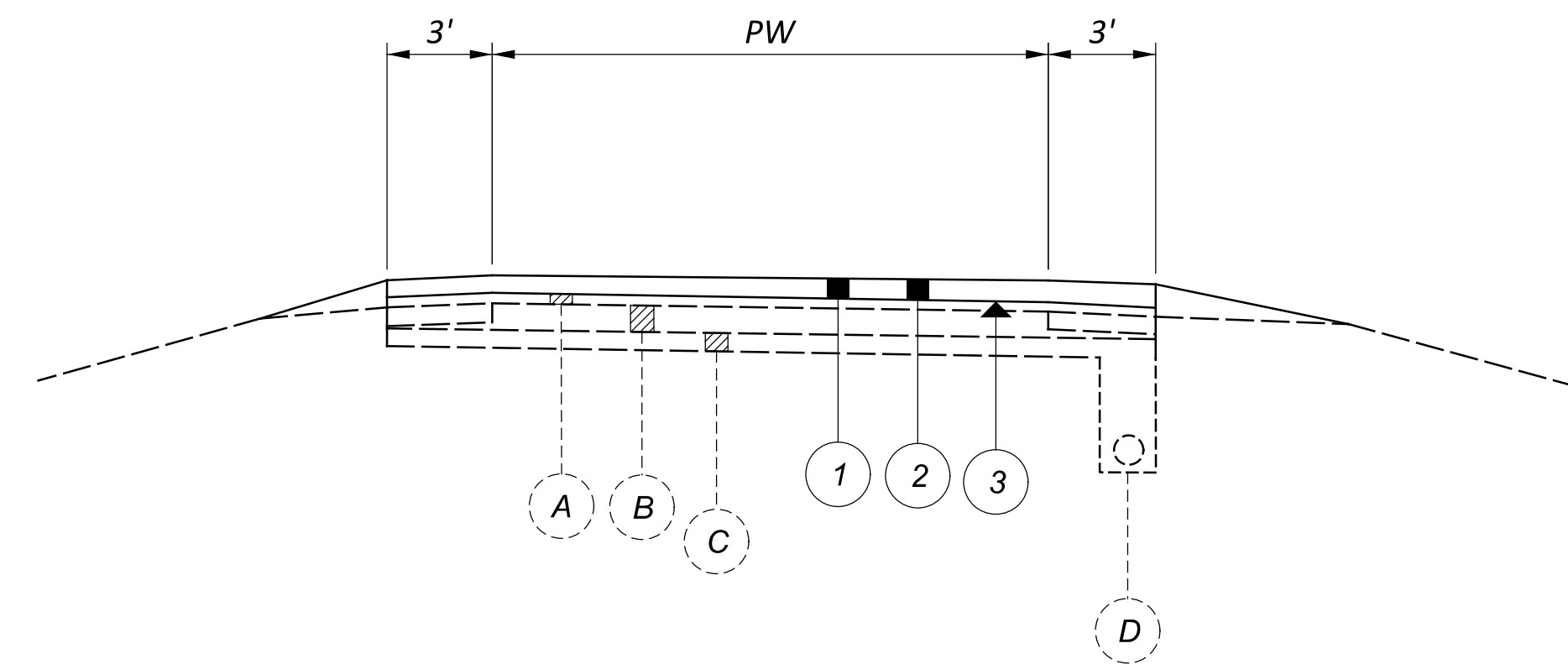
TYPICAL SECTIONS #1 (SOUTHBOUND)				
ROUTE	SLM		LENGTH (MILES)	PW (FEET)
	FROM	TO		
271	8.54	11.16	2.62	39
271	11.18	11.20	0.02	39
271	11.23	11.43	0.20	39
271	11.43	11.62	0.19	52
271	11.62	11.86	0.24	56
271	11.92	12.32	0.40	53
271	12.32	12.52	0.20	65
TOTAL = 3.87				

TYPICAL SECTIONS #2 (NORTHBOUND)				
ROUTE	SLM		LENGTH (MILES)	PW (FEET)
	FROM	TO		
271	8.54	11.15	2.61	39
271	11.17	11.20	0.03	39
271	11.23	11.61	0.38	39
271	11.61	11.83	0.22	45
271	11.89	12.14	0.25	53
271	12.14	12.44	0.30	57
TOTAL = 3.79				

**LEGEND**

- ① ITEM 897 PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T = 1.5")
- ② ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PWL, 2024, AS PER PLAN, PG70-22M (T = 1.5")
- ③ ITEM 407, NON-TRACKING TACK @ 0.09 GAL/SY
- ④ ITEM 617 COMPACTED AGGREGATE, AS PER PLAN (T = 2")
- ⑤ ITEM 408, PRIME COAT, AS PER PLAN @ 0.40 GAL/SY
- ⑥ ITEM 618, RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)

- Ⓐ EXISTING ASPHALT CONCRETE PAVEMENT (T = 5")
- Ⓑ EXISTING CONCRETE BASE (T = 10")
- Ⓒ EXISTING SUBBASE
- Ⓓ EXISTING 6" SHALLOW PIPE UNDERDRAINS



TYPICAL SECTIONS #3					
IR 271 / SR 8 INTERCHANGE RAMP CLOSURES		FROM	TO	LENGTH (MILES)	PW (FEET)
RAMP A	IR 271 S TO SR 8 S	MAINLINE IR 271	SUM-8-1758A	0.69	45
RAMP B	SR 8 N TO IR 271 N	MAINLINE IR 271	SUM-8-1757B	0.39	45
RAMP R3	IR 271 N TO SR 8	CADD GENERATED AREA			
RAMP D	IR 271 S TO SR 8	CADD GENERATED AREA			
RAMP E	SR 8 TO IR 271 S	CADD GENERATED AREA			



**MAINTENANCE OF TRAFFIC**

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.
2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
3. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.
4. ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED OR PROTECTED AS PER STANDARD CONSTRUCTION DRAWING MT-101.90.
5. TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.
6. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE [1] MILE URBAN.
7. FOR ROUTES NOT ON THE PERMITTED LANE CLOSURE CHART, ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.
8. IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.
9. A QUANTITY OF 20 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
10. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.
11. THE CONTRACTOR SHALL PLACE THE SIGNS: W8-1 [BUMP] PER OMUTCD 2C.28; W8-11 [UNEVEN LANES] PER OMUTCD 6F.45; AND W6-3 [TWO-WAY TRAFFIC] PER OMUTCD 6F.32. PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614-MAINTAINING TRAFFIC. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.

12. THE CONTRACTOR SHALL SET A WORK ZONE AT THE REQUEST OF THE ENGINEER TO ALLOW THE LAYOUT OF THE PARTIAL/FULL DEPTH PAVEMENT REPAIR AREAS. THIS WORK IS INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.

13. TO ENSURE THAT WEIGHTED CHANNELIZERS WILL NOT BE BLOWN OVER OR DISPLACED BY WIND AND MOVING TRAFFIC, ALL WEIGHTED CHANNELIZERS UTILIZED ON INTERSTATES AND FREEWAYS SHALL BE FROM MANUFACTURERS ON THE OHIO DEPARTMENT OF TRANSPORTATION, OFFICE OF MATERIAL MANAGEMENT'S QUALIFIED PRODUCTS LIST (QPL) WHICH UTILIZE A MINIMUM OF A 30 POUND BALLAST.

14. DRUMS UTILIZED ON THE HIGH SIDE OF A SUPERELEVATED INTERSTATE OR FREEWAYS SHALL BE FROM MANUFACTURERS ON THE OFFICE OF MATERIAL MANAGEMENT'S QUALIFIED PRODUCTS LIST (QPL) WITH A MINIMUM BALLAST WEIGHT OF 30 POUNDS. ALL BALLASTS USED SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:

- PHASE I: MILLED SURFACE
- 614, WORK ZONE LANE LINE, CLASS I, 6", 9.46 MILE
  - 614, WORK ZONE STOP LINE, CLASS 1, 74 FT
  - 614, WORK ZONE CHANNELIZING LINE, CLASS 1, 12", 9715 FT
  - 614, WORK ZONE MARKING SIGN,(ALL PHASES) 18 EACH
- PHASE II: SURFACE COURSE
- 614, WORK ZONE LANE LINE, CLASS III, 642 PAINT, 6", 9.46 MILE
  - 614, WORK ZONE STOP LINE, CLASS III, 642 PAINT, 74 FT
  - 614, WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT, 12", 9715 FT

TO BE USED AS DIRECTED BY THE ENGINEER

- 614, WORK ZONE EDGE LINE, CLASS III, 6", 40.80 MILE

15. A QUANTITY OF 20 CY OF ITEM 410 TRAFFIC COMPACTED SURFACE, TYPE A OR B, HAS BEEN PROVIDED FOR THE CONTRACTOR'S USE WHEN ACCESSING THE PROJECT SITE BRIDGE JOINT REPAIR AREAS. THIS ITEM SHALL ONLY BE USED IF NECESSARY TO PROVIDE ACCESS TO THE JOINT REPAIR LOCATIONS AND IF APPROVED BY THE PROJECT ENGINEER.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS OTHERWISE ITEMIZED IN THE PLAN.

**ASPHALT PAVING LIMITATION**

THE CONTRACTOR SHALL NOT ANTICIPATE OR SCHEDULE PLACING ASPHALT (ASPHALT SURFACE COURSE, ASPHALT INTERMEDIATE COURSE, ASPHALT CONCRETE BASE, ETC.) BETWEEN NOVEMBER 1 AND APRIL 1 WHEN SUBMITTING THEIR INITIAL BAR CHART PROGRESS SCHEDULE TO THE DISTRICT CONSTRUCTION ENGINEER (DCE) AS SPECIFIED IN CMS SECTION 108.02A. THIS LIMITATION SHALL ALSO INCLUDE INITIAL BASE LINE SCHEDULES AND ALL UPDATES IF A CPM SCHEDULE IS REQUIRED.

**ADVANCED NOTICE TO PAVE**

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

**TIME LIMITATION, TRAFFIC ON A MILLED SURFACE**

THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 7 CONSECUTIVE CALENDAR DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$3,000 PER DAY THAT THE TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMIT.

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD & RAMP CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERNS CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

**TRAFFIC CONTROL INSPECTOR**

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

**ITEM 614, MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR) (SUM-271-0914 & SUM-271-0967)**

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 5 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET P.11-12. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$ 2,500 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

**STRUCTURE EXPANSION JOINT REPLACEMENTS**

ALL EXPANSION JOINT REPLACEMENT WORK ON SUM-271-0914 SHALL NOT BE DONE CONCURRENTLY WITH THE EXPANSION JOINT REPLACEMENT WORK ON SUM-271-0967.

THE EXPANSION JOINT REPLACEMENT WORK ON SUM-271-1116R & SUM-271-1122R SHALL BE PERFORMED ONE LANE AT A TIME BETWEEN 6PM FRIDAY AND 6AM MONDAY.

**PERMITTED LANE CLOSURE SCHEDULE (PLCS)**

LANE CLOSURE(S) SHALL CONFORM TO THE PLCS. PUBLISHED PLCS INFORMATION CAN BE FOUND ON THE ODOT WEBSITE AT: [HTTPS://WWW.TRANSPORTATION.OHIO.GOV/WPS/PORTAL/GOV/ODOT/WORKING/DATA-TOOLS/RESOURCES/PERMITTED-LANE-CLOSURE](https://www.transportation.ohio.gov/wps/portal/gov/odot/working/data-tools/resources/permited-lane-closure)

THE MONTHLY PUBLISHED SCHEDULES REQUIRED TO BE USED, FOR EACH PLCS SEGMENT WITHIN THE PROJECT AREA, ARE THOSE THAT COMPRISE THE CONSECUTIVE 12-MONTH PERIOD BEGINNING 15 MONTHS PRIOR TO THE MONTH AND YEAR OF SALE AND ENDING 4 MONTHS PRIOR TO THE MONTH AND YEAR OF SALE. THESE SAME 12 MONTHS APPLY FOR THE LIFE OF THE PROJECT AND SHALL BE APPLIED TO EACH RESPECTIVE MONTH OF CONSTRUCTION (MONTH OF LANE CLOSURE(S) SHALL MATCH MONTH OF PLCS USED). LANE CLOSURE(S) IN PLACE FOR MULTIPLE MONTHS SHALL ALWAYS COMPLY WITH THE CURRENT RESPECTIVE MONTH.

(FOR EXAMPLE: IF THE SALE DATE FOR THE PROJECT WAS MARCH OF 2021, THE MONTHLY PUBLISHED SCHEDULES FOR EACH APPLICABLE PLCS SEGMENT WOULD BE DECEMBER 2019 TO NOVEMBER 2020. IF THIS WAS A THREE-YEAR PROJECT, YEAR THREE WOULD STILL BE USING THE DECEMBER 2019 TO NOVEMBER 2020 MONTHLY SCHEDULES. IF THE PROJECT DESIRED TO CLOSE TWO LANES IN JUNE 2021, REFERENCE WOULD BE MADE TO THE JUNE 2020 SCHEDULE(S) FOR THE RESPECTIVE PLCS SEGMENT(S). IF THE SAME TWO LANES WERE DESIRED TO BE CLOSED AGAIN IN JULY 2021, REFERENCE WOULD BE MADE TO THE JULY 2020 SCHEDULE(S) FOR THE RESPECTIVE PLCS SEGMENT(S).)

MORE RESTRICTIVE CHANGES TO THE ALLOWABLE LANE CLOSURE HOURS ARE AT THE DISCRETION OF THE ENGINEER IN ORDER TO COMPLY WITH THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)).

LESS RESTRICTIVE CHANGES TO THE ALLOWABLE LANE CLOSURE HOURS ARE SUBJECT TO THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)) AND SHALL NOT BE IMPLEMENTED UNTIL, AND UNLESS, APPROVED BY THE PROPER ODOT AUTHORITY. [EXISTING MOT EXCEPTIONS THAT HAVE ALREADY BEEN APPROVED IN ACCORDANCE TO THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY AND STANDARD PROCEDURE ARE DETAILED IN THE APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTION(S) PLAN NOTE.]


ALLOWABLE LANE CLOSURE HOURS FOR FACILITIES NOT COVERED BY THE PLCS, IF ANY, SHALL BE AS SPECIFIED ELSEWHERE IN THE PLANS.



SHEET NUM.										PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	7	16	17	18	19	20	22	01/IMS/05	02/IMS/14	03/IMS/04	04/NHS/47						
<b>PAVEMENT</b>																			
3,000										3,000				251	01000	3,000	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
7,200										7,200				252	01500	7,200	FT	FULL DEPTH PAVEMENT SAWING	
					112					112				254	01000	112	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T = 3")	
1,200										1,200				255	10500	1,200	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS RRCM	
200										200				304	20000	200	CY	AGGREGATE BASE	
				17,230	4,268					21,498				407	20000	21,498	GAL	NON-TRACKING TACK COAT	
				7,191	3,333					10,524				408	10001	10,524	GAL	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	5
					5					5				441	70200	5	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449) (T = 1.5")	
				4,494	2,083					6,577				442	00100	6,577	CY	ANTI-SEGREGATION EQUIPMENT	
				7,977	1,973					9,950				442	10321	9,950	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PWL 2024, AS PER PLAN (T = 1.5")	5
				999	1,214					2,213				617	10100	2,213	CY	COMPACTED AGGREGATE (T = 2")	
				16						16				618	40600	16	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
				191,436	47,224					238,660				897	01010	238,660	SY	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T = 1.5")	
<b>TRAFFIC CONTROL</b>																			
						1,338				1,338				621	00100	1,338	EACH	RPM	
						1,071				1,071				621	54000	1,071	EACH	RAISED PAVEMENT MARKER REMOVED	
120								414		534				630	02100	534	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
								72		72				630	80100	72	SF	SIGN, FLAT SHEET	
16								32		48				630	80100	48	SF	SIGN, FLAT SHEET, 730.2	
16								40		56				630	84900	56	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
16								40		56				630	86002	56	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							26			26				646	10400	26	FT	STOP LINE	
							2,106			2,106				646	10600	2,106	FT	TRANSVERSE/DIAGONAL LINE	
							6			6				646	20300	6	EACH	LANE ARROW	
							3			3				646	20320	3	EACH	WRONG WAY ARROW	
							20.4			20.4				807	12010	20.4	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"	
							9.46			9.46				807	12110	9.46	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	
							9,763			9,763				807	12310	9,763	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"	
							2,510			2,510				807	12410	2,510	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"	
							29.36			29.36				850	10010	29.36	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
							2,510			2,510				850	10110	2,510	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
							9,763			9,763				850	10130	9,763	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
<b>STRUCTURE REPAIRS</b>																			
																		FOR SUM-271-0894 ESTIMATED QUANTITIES	28
																		FOR SUM-271-0914 ESTIMATED QUANTITIES	28
																		FOR SUM-271-0964 ESTIMATED QUANTITIES	28
																		FOR SUM-271-0967 ESTIMATED QUANTITIES	28
																		FOR SUM-271-1113L ESTIMATED QUANTITIES	28
																		FOR SUM-271-1116R ESTIMATED QUANTITIES	28
																		FOR SUM-271-1117L ESTIMATED QUANTITIES	28
																		FOR SUM-271-1122R ESTIMATED QUANTITIES	28
																		FOR SUM-271-1186R ESTIMATED QUANTITIES	29
																		FOR SUM-271-1189L ESTIMATED QUANTITIES	29
																		FOR SUM-271-1264R ESTIMATED QUANTITIES	29
																		FOR SUM-271-1265L ESTIMATED QUANTITIES	29
																		FOR SUM-8-1709A ESTIMATED QUANTITIES	29

GENERAL SUMMARY

DESIGN AGENCY




DESIGNER: ROF  
 REVIEWER: MJA  
 PROJECT ID: 93101  
 SHEET: P.15 TOTAL: 39

SHEET NUM.											PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	16	17	18	19	20	22	28	29	01/IMS/05	02/IMS/14	03/IMS/04	04/NHS/47						
<b>MAINTENANCE OF TRAFFIC</b>																				
	20										20				410	12000	20	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
		200									200				614	11110	200	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	18										18				614	12460	18	EACH	WORK ZONE MARKING SIGN, (ALL PHASES)	
		20									20				614	13000	20	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
		12									12				614	18600	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN	
	9.46										9.46				614	20010	9.46	MILE	WORK ZONE LANE LINE, CLASS I, 6"	
	9.46										9.46				614	20560	9.46	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
	40.8										40.8				614	22360	40.8	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
	9,715										9,715				614	23000	9,715	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	
	9,715										9,715				614	23680	9,715	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	
	74										74				614	26000	74	FT	WORK ZONE STOP LINE, CLASS I	
	74										74				614	26610	74	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
											1,175				615	20001	1,175	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	
											1,900				622	90000	1,900	FT	BARRIER, MISC., PORTABLE MOVABLE BARRIER SYSTEM	
											8				632	26501	8	EACH	DETECTOR LOOP, AS PER PLAN	
											12				808	18700	12	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
<b>INCIDENTALS</b>																				
											LS				614	11000	LS		MAINTAINING TRAFFIC	
											12				619	16010	12	MNTH	FIELD OFFICE, TYPE B	
											LS				623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS				624	10000	LS		MOBILIZATION	

7  
7A  
7

GENERAL SUMMARY

DESIGN AGENCY

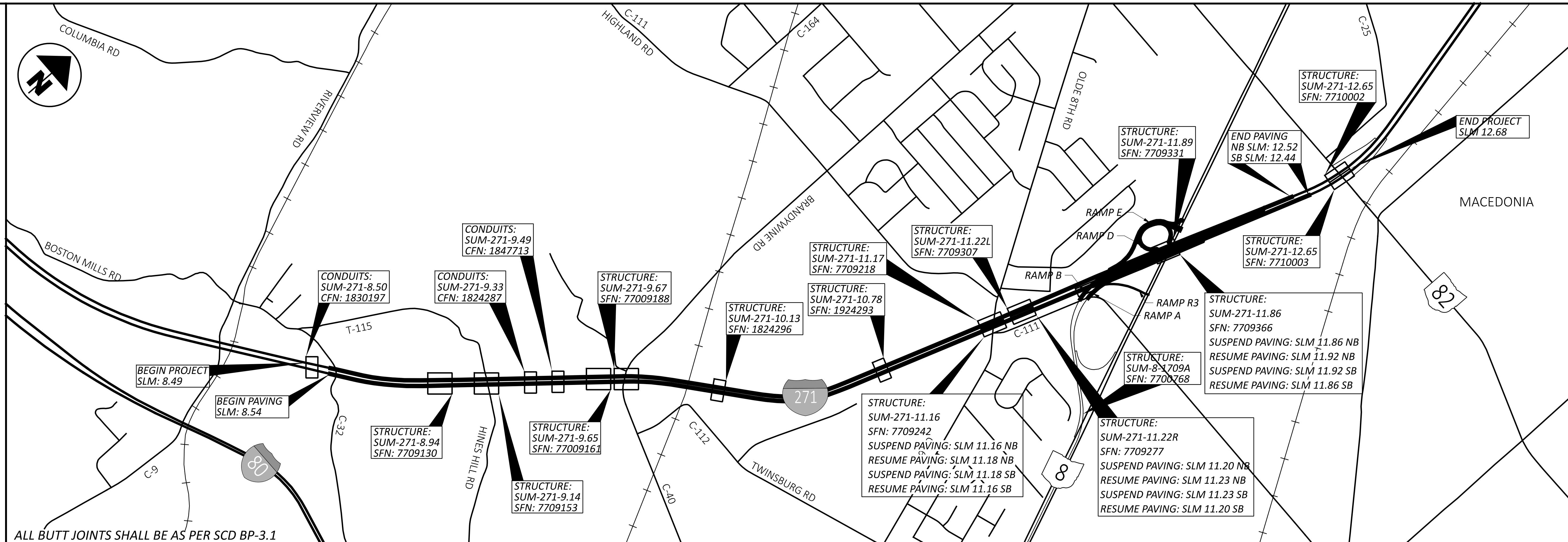


DESIGNER  
ROF

REVIEWER  
MJA 02/03/23

PROJECT ID  
93101

SHEET TOTAL  
P.15A 39



ALL BUTT JOINTS SHALL BE AS PER SCD BP-3.1

SLM RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	897		407		442		617		408		618		
							PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T = 1.5")	ASPHALT CONCRETE SURFACE COURSE 12.5 MM, TYPE A (447), PVL 2024, AS PER PLAN (T = 1.5")	NON-TRACKING TACK COAT @ 0.09 GAL/SY	ANTI-SEGREGATION EQUIPMENT	COMPACTED AGGREGATE (T = 2")	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)						
			FT	FT	SQ YD	SQ YD	SY	CY	GAL	CY	CY	GAL	MILE						
<b>IR 271 SB</b>																			
8.54	TO	11.16	1	L	13833.60	39	59945.60	2497.73	5395.10	1537.07	341.57	2459.31	5.24						
11.18	TO	11.20	1	L	105.60	39	457.60	19.07	41.18	11.73	2.61	18.77	0.04						
11.23	TO	11.43	1	L	1056.00	39	4576.00	190.67	411.84	117.33	26.07	187.73	0.40						
11.43	TO	11.62	1	L	1003.20	52	5796.27	241.51	521.66	111.47	24.77	178.35	0.38						
11.62	TO	11.86	1	L	1267.20	56	7884.80	328.53	709.63	140.80	31.29	225.28	0.48						
11.92	TO	12.32	1	L	2112.00	53	12437.33	518.22	1119.36	234.67	52.15	375.47	0.80						
12.32	TO	12.52	1	L	1056.00	65	7626.67	317.78	686.40	117.33	26.07	187.73	0.40						
<b>IR 271 NB</b>																			
8.54	TO	11.15	2	R	13780.80	39	59716.80	2488.20	5374.51	1531.20	340.27	2449.92	5.22						
11.17	TO	11.20	2	R	158.40	39	686.40	28.60	61.78	17.60	3.91	28.16	0.06						
11.23	TO	11.43	2	R	1056.00	39	4576.00	190.67	411.84	117.33	26.07	187.73	0.40						
11.43	TO	11.61	2	R	950.40	39	4118.40	171.60	370.66	105.60	23.47	168.96	0.36						
11.61	TO	11.83	2	R	1161.60	45	5808.00	242.00	522.72	129.07	28.68	206.51	0.44						
11.89	TO	12.14	2	R	1320.00	53	7773.33	323.89	699.60	146.67	32.59	234.67	0.50						
12.14	TO	12.44	2	R	1584.00	57	10032.00	418.00	902.88	176.00	39.11	281.60	0.60						
SUBTOTALS							191435.2	7976.47	17229.17	4493.9	998.64	7190.19	15.32						
TOTALS CARRIED TO GENERAL SUMMARY							191436	7977	17230	4494	999	7191	16						





STRUCTURE FILE NO. (SFN)	EXPRESSWAY / FREEWAY STRUCTURE ID INFO	INTERSECTING ROADWAY STRUCTURE ID INFO	APPROACH DIRECTION (NB, SB, EB, WB)	SIDE OF ROADWAY (LT, RT)	GENERAL		MAINLINE FREEWAY/EXPRESSWAY				ROADWAY OVER EXPRESSWAY/FREEWAY					ROADWAY UNDER EXPRESSWAY/FREEWAY			
					630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
					REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	SIGN, FLAT SHEET, 730.20	SIGN, FLAT SHEET	SIGN, FLAT SHEET	GROUND MOUNTED SUPPORT, NO. 2 POST	SIGN, FLAT SHEET, 730.20	SIGN, FLAT SHEET, 730.20	SIGN, FLAT SHEET	SIGN, FLAT SHEET	GROUND MOUNTED SUPPORT, NO. 2 POST	SIGN, FLAT SHEET, 730.20	SIGN, FLAT SHEET	SIGN, FLAT SHEET	GROUND MOUNTED SUPPORT, NO. 2 POST
EACH	EACH	SF	SF	SF	FT	SF	SF	SF	SF	FT	SF	SF	SF	FT					
7709130	SUM-271-0894		NB	RT	1	1	1				7.5								
7709130	SUM-271-0894		SB	RT	1	1	1				7.5								
7709153	SUM-271-0914	SUM-TR-115	NB	RT	1	1	1				7.5								
7709153	SUM-271-0914	SUM-TR-115	SB	RT	1	1	1				7.5								
7709153	SUM-271-0914	SUM-TR-115	EB	LT	1	1							3				11		
7709153	SUM-271-0914	SUM-TR-115	EB	RT	1	1				1	1		3				11		
7709153	SUM-271-0914	SUM-TR-115	WB	LT	1	1							3				11		
7709153	SUM-271-0914	SUM-TR-115	WB	RT	1	1				1	1		3				11		
7709161	SUM-271-0965		NB	RT	1	1	1				7.5								
7709161	SUM-271-0965		SB	RT	1	1	1				7.5								
7709188	SUM-271-0967	SUM-CR-40	NB	RT	1	1	1				7.5								
7709188	SUM-271-0967	SUM-CR-40	SB	RT	1	1	1				7.5								
7709188	SUM-271-0967	SUM-CR-40	EB	LT	1	1							3				11		
7709188	SUM-271-0967	SUM-CR-40	EB	RT	1	1				1	1		3				11		
7709188	SUM-271-0967	SUM-CR-40	WB	LT	1	1							3				11		
7709188	SUM-271-0967	SUM-CR-40	WB	RT	1	1				1	1		3				11		
7709242	SUM-271-1116R	SUM-CR-16	NB	RT	1	1													
7709242	SUM-271-1116R	SUM-CR-16	NB	LT	1	1	1		3										
7709242	SUM-271-1116R	SUM-CR-16	EB	RT											1	3		11	
7709242	SUM-271-1116R	SUM-CR-16	WB	RT												3		11	
7709218	SUM-271-1117L	SUM-CR-16	NB	RT	1	1			3										
7709218	SUM-271-1117L	SUM-CR-16	NB	RT	1	1	1				3								
7709218	SUM-271-1117L	SUM-CR-16	EB	RT												3		11	
7709218	SUM-271-1117L	SUM-CR-16	WB	RT										1			3	11	
7709366	SUM-271-1186R	SUM-8-1790	NB	RT	1	1	1				7.5								
7709366	SUM-271-1186R	SUM-8-1790	SB	RT	1	1	1				7.5								
7709366	SUM-271-1186R	SUM-8-1790	EB	RT	1	1	1				7.5								
7709366	SUM-271-1186R	SUM-8-1790	WB	RT	1	1	1				7.5								
7709331	SUM-271-1189L	SUM-8-1790	NB	RT	1	1	1				7.5								
7709331	SUM-271-1189L	SUM-8-1790	SB	RT	1	1	1				7.5								
7709331	SUM-271-1189L	SUM-8-1790	EB	RT	1	1	1				7.5								
7709331	SUM-271-1189L	SUM-8-1790	WB	RT	1	1	1				7.5								
7710003	SUM-271-1265R	SUM-SR-82	NB	RT	1	1	1				7.5								
7710003	SUM-271-1265R	SUM-SR-82	SB	RT	1	1	1				7.5								
7710003	SUM-271-1265R	SUM-SR-82	EB	LT	1	1							3				11		
7710003	SUM-271-1265R	SUM-SR-82	EB	RT	1	1				1	1		3				11		
7710003	SUM-271-1265R	SUM-SR-82	WB	LT	1	1							3				11		
7710003	SUM-271-1265R	SUM-SR-82	WB	RT	1	1				1	1		3				11		
7710002	SUM-271-1265L	SUM-SR-82	NB	RT	1	1	1				7.5								
7710002	SUM-271-1265L	SUM-SR-82	SB	RT	1	1	1				7.5								
7710002	SUM-271-1265L	SUM-SR-82	EB	LT	1	1							3				11		
7710002	SUM-271-1265L	SUM-SR-82	EB	RT	1	1				1	1		3				11		
7710002	SUM-271-1265L	SUM-SR-82	WB	LT	1	1							3				11		
7710002	SUM-271-1265L	SUM-SR-82	WB	RT	1	1				1	1		3				11		
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					40	40	22	6	6	194	8	8	24	24	176	2	6	6	44
							<b>NOTE 1</b>	<b>NOTE 2</b>	<b>NOTE 3</b>		<b>NOTE 1</b>	<b>NOTE 4</b>	<b>NOTE 2</b>	<b>NOTE 3</b>		<b>NOTE 1</b>	<b>NOTE 2</b>	<b>NOTE 3</b>	

<b>NOTE 1</b>	I-h25b, MOUNTED UNDER OM-3R IF SPECIFIED, USE EXPRESSWAY / FREEWAY STRUCTURE INFO
<b>NOTE 2</b>	OM-3L
<b>NOTE 3</b>	OM-3R
<b>NOTE 4</b>	I-h25b, MOUNTED UNDER MAINLINE STRUCTURE ID SIGN, USE INTERSECTING ROADWAY STRUCTURE INFO

STRUCTURE ID SUBSUMMARY

DESIGN AGENCY



DESIGNER

JRF

REVIEWER

MJA 02/03/23

PROJECT ID

93101

SHEET TOTAL

P.20 39

**PROPOSED WORK**

SUM-271-0850 (CFN 1830197), (D=42")  
 - REPLACE OUTLET END SECTIONS  
 - REPLACE HEADWALL AT OUTLET  
 - REPAIR SCOUR AND EROSION AT THE OUTLET  
 - INSTALL ROCK CHANNEL PROTECTION AT INLET

AND OUTLET  
 - RENEW THE CONDUIT WITH A SPRAY APPLIED STRUCTURAL LINER OR CURED-IN-PLACE PIPE LINER  
 - CHANNEL CLEANOUT AT THE INLET  
 - CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION

SUM-271-0933 (CFN 1824287), (D=84")  
 - REPLACE HEADWALL AT INLET AND OUTLET  
 - REPAIR EROSION AT THE INLET, REPAIR EROSION AND SCOUR AT THE OUTLET  
 - INSTALL ROCK CHANNEL PROTECTION AT INLET

AND OUTLET  
 - RENEW THE CONDUIT WITH A SPRAY APPLIED STRUCTURAL LINER OR CURED-IN-PLACE PIPE LINER  
 - CHANNEL CLEANOUT AT THE INLET  
 - CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION

SUM-271-0949 (CFN 1847713), (D=36")  
 - REPAIR EROSION AT THE OUTLET  
 - RENEW THE CONDUIT WITH A SPRAY APPLIED STRUCTURAL LINER OR CURED-IN-PLACE PIPE LINER  
 - CHANNEL CLEANOUT AT THE INLET  
 - CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION

SUM-271-1013 (CFN 1824296), (D=60")  
 - REPLACE INLET END SECTIONS  
 - REPLACE HEADWALL AT INLET  
 - REPAIR EROSION AT THE INLET, REPAIR SCOUR AT THE INLET AND OUTLET  
 - INSTALL ROCK CHANNEL PROTECTION AT THE INLET

AND OUTLET  
 - RENEW THE CONDUIT WITH A SPRAY APPLIED STRUCTURAL LINER OR CURED-IN-PLACE PIPE LINER  
 - CHANNEL CLEANOUT AT THE INLET  
 - CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION

SUM-271-1078 (CFN 1824293), (D=54")  
 - RENEW THE CONDUIT WITH A SPRAY APPLIED STRUCTURAL LINER OR CURED-IN-PLACE PIPE LINER  
 - CHANNEL CLEANOUT AT THE INLET AND OUTLET  
 - CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION

**EROSION AND SCOUR REPAIR**

THIS WORK WILL CONSIST OF REPAIRING THE EROSION AND SCOUR AT THE APPROXIMATE LOCATIONS DETAILED BELOW AND AT THE DIRECTION OF THE ENGINEER. REPAIR WORK SHALL BE PAID FOR BY THE FOLLOWING ITEMS:

SUM-271-0850 (REPAIR OUTLET SIDE EMBANKMENT AFTER PIPE END REPLACEMENT, REPAIR SCOUR AT OUTLET)

SUM-271-0933 (REPAIR INLET SIDE EMBANKMENT, REPAIR SCOUR AT INLET AND OUTLET)

SUM-271-0949 (REPAIR OUTLET SIDE EMBANKMENT)

SUM-271-1013 (REPAIR INLET SIDE EMBANKMENT AFTER PIPE END REPLACEMENT, REPAIR SCOUR AT INLET AND OUTLET)

**HEADWALL REPLACEMENT**

THIS WORK SHALL CONSIST OF REMOVING AND REPLACING THE HEADWALL AT THE FOLLOWING STRUCTURES/LOCATIONS:

SUM-271-0850 (OUTLET SIDE - FULL HEIGHT HW)  
 SUM-271-0933 (INLET AND OUTLET SIDE - HALF HEIGHT HW)  
 SUM-271-1013 (INLET SIDE - FULL HEIGHT HW)

REPLACEMENT HEADWALLS SHALL BE CONSTRUCTED ACCORDING TO STANDARD CONSTRUCTION DRAWINGS HW-1.1 OR HW-2.1 THE REPLACEMENT HEADWALL SHALL BE PAID FOR AT THE UNIT BID PRICE FOR ITEM 602 - CONCRETE MASONRY. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS TO CONSTRUCT THE HEADWALLS.

**PIPE REPAIR**

THIS WORK SHALL CONSIST OF REMOVING AND REPLACING DAMAGED OR DISPLACED PORTIONS OF EXISTING CONDUIT ON THE FOLLOWING STRUCTURES:

SUM-271-0850: REMOVE AND REPLACE APPROXIMATELY 22 FT OF CONDUIT AT THE OUTLET. USE ITEM 611 - 42" CONDUIT, TYPE A, (707.01 OR 707.02)

SUM-271-1013: REMOVE AND REPLACE APPROXIMATELY 20 FT OF CONDUIT AT THE OUTLET. USE ITEM 611 - 60" CONDUIT, TYPE A, (707.01 OR 707.02)

CONNECT REPLACEMENT PIPE AND EXISTING PIPE WITH A MASONRY COLLAR AS SHOWN IN STANDARD CONSTRUCTION DRAWING DM-1.1.

**ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS**

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

**ITEM 202 - REMOVAL MISC.: CHANNEL CLEANOUT**

THIS WORK WILL CONSIST OF RE-ESTABLISHING THE ORIGINAL CHANNEL PROFILE BY REMOVING SEDIMENT BUILDUP, VEGETATION, AND DEBRIS FROM THE EXISTING CHANNEL WITHIN STATE RIGHT-OF-WAY LIMITS AS SPECIFIED IN THE PLANS FOR STRUCTURES SUM-271-0850, SUM-271-0933, SUM-271-0949, SUM-271-1013 AND SUM-271-1078. ANY TREES LOCATED WITHIN CHANNEL OR BANK LIMITS WILL BE INCLUDED UNDER ITEM 201, CLEARING AND GRUBBING. ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17 OF THE CMS WITH THE APPROVAL OF THE ENGINEER. NO AREAS OF EXISTING CHANNEL PROTECTION SHALL BE REMOVED IN ORDER TO RESTORE THE ORIGINAL CHANNEL PROFILE. AFFECTED CHANNEL AREAS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CHANNEL CLEANOUT WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 202 REMOVAL MISC.: CHANNEL CLEANOUT. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CHANNEL CLEANOUT.

DESIGN AGENCY



DESIGNER

JRF

REVIEWER

MJA 02/03/23

PROJECT ID

93101

SHEET TOTAL

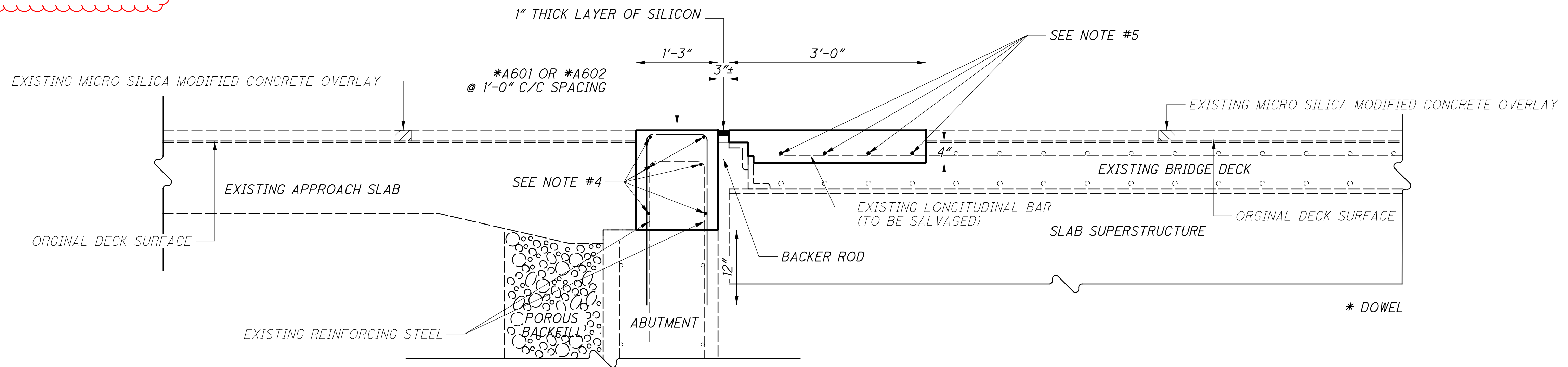
P.21 39

**NOTES:**

1. REBUILD PORTION OF DECK AND ABUTMENT BACKWALL PER THE DETAIL SHOWN BELOW. ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS SUCH AS BACKER-ROD MATERIAL AND 1" THICK LAYER OF SILICON REQUIRED TO PERFORM THIS WORK WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM SPEC, PATCHING CONCRETE STRUCTURE, MISC.: VES-LMC (VERY EARLY STRENGTH - LATEX MODIFIED CONCRETE).
2. ALL REINFORCING STEEL REQUIRED TO COMPLETE THE CONSTRUCTION OF THE NEW JOINT WILL BE PAID FOR UNDER ITEM 509, EPOXY COATED REINFORCING STEEL, AS PER PLAN.
3. PROVIDE A 2" MINIMUM REINFORCING STEEL CLEARANCE.

4. SUM-271-0914: 1-A501, 1-A502, 2-A503  
 SUM-271-0967: 1-A504, 1-A505, 1-A506, 2-A507, 1-A508, 1-A509  
 SUM-271-1116R: 1-A510, 1-A511, 1-A512, 1-A513, 1-A514, 1-A515  
 1-A516, 1-A517, 1-A518, 1-A519  
 SUM-271-1122R: 1-A520, 1-A521, 1-A522, 1-A523, 1-A524, 1-A525  
 OR 1-A526, 1-A527, 1-A528, 1-A529, 1-A530

5. SUM-271-0914: S601  
 SUM-271-0967: S602  
 SUM-271-1116R: S603, S604  
 SUM-271-1122R: S603, S604



SUM-271-0914, SUM-271-0967, SUM-271-1116R, AND SUM-271-1122R

APPROACH PAVEMENT SHOWN  
 TRAILING PAVEMENT SIMILAR

SFN  
 VARIOUS  
 DESIGN AGENCY



DESIGNER: JRF  
 CHECKER: MJA

REVIEWER:  
 MJA 02/03/23

PROJECT ID:  
 93101

SUBSET	TOTAL
7	9

SHEET	TOTAL
P.31	39

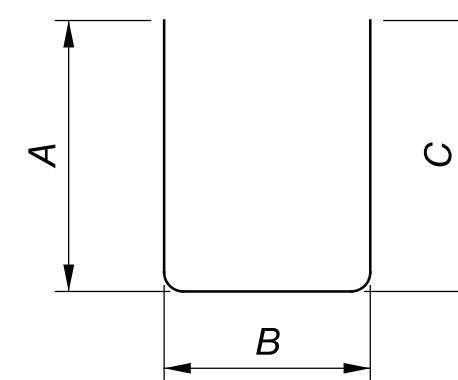
MARK	NUMBER				LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS				
	REAR ABUT	FWD ABUT	SUPER	TOTAL				A	B	C	D	E
SUM-271-0914												
S601	4	4		8	30'-2"	363	STR					
SUM-271-0967												
S602	4	4		8	29'-8"	357	STR					
SUPERSTRUCTURE SUB-TOTAL						720						
SUM-271-0914												
A501	1	1		2	29'-10"	63	STR					
A502	1	1		2	24'-4"	51	STR					
A503	2	2		4	4'-0"	17	STR					
*A601	21	21		42	5'-11"	374	2	2'-6"	11"	2'-6"		
*A602	14	14		28	2'-6"	106	STR					
SUM-271-0967												
A504		1		1	31'-3"	33	STR					
A505		1		1	25'-0"	27	STR					
A506		1		1	5'-0"	6	STR					
A507	2	1		3	4'-6"	15	STR					
A508	1			1	24'-0"	26	STR					
A509	1			1	29'-6"	31	STR					
*A601	20	22		42	5'-11"	374	2	2'-6"	11"	2'-6"		
*A602	20	16		36	2'-6"	136	STR					
ABUTMENT SUB-TOTAL						1259						
GRAND TOTAL						1979						

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

ALL REINFORCING STEEL TO BE EPOXY COATED

\*A601 AND \*A602 BARS 12" DOWEL

TRANSVERSE BARS FOR MAINLINE BRIDGES SUM-271-1116R & SUM-271-1122R (#S603 & #S604) WILL CONNECT WITH THE USE OF MECHANICAL CONNECTORS. THIS WORK SHALL BE INCIDENTAL TO THE REINFORCING STEEL WORK.



TYPE-2

MARK	NUMBER				LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS				
	REAR ABUT	FWD ABUT	SUPER	TOTAL				A	B	C	D	E
SUM-271-1116R												
#S603	4	4		8	19'-0"	229	STR					
#S604	4	4		8	22'-8"	273	STR					
SUM-271-1122R												
#S603	5	5		10	19'-0"	286	STR					
#S604	5	5		10	22'-8"	341	STR					
SUPERSTRUCTURE SUB-TOTAL						1129						
SUM-271-1116R												
A510	1			1	25'-7"	27	STR					
A511	1			1	19'-0"	20	STR					
A512	1			1	11'-4"	12	STR					
A513	1			1	19'-3"	21	STR					
A514	1	1		2	7'-4"	16	STR					
A515	1	1		2	12'-0"	26	STR					
A516	1			1	21'-5"	23	STR					
A517	1			1	9'-3"	10	STR					
A518	1			1	26'-4"	28	STR					
A519	1			1	20'-7"	22	STR					
*A601	28	28		56	5'-11"	498	2	2'-6"	11"	2'-6"		
*A602	32	32		64	2'-6"	241	STR					
SUM-271-1122R												
A520	1			1	29'-1"	31	STR					
A521	1			1	17'-3"	18	STR					
A522	1			1	22'-3"	24	STR					
A523	1			1	6'-9"	8	STR					
A524	1			1	21'-3"	23	STR					
A525	1			1	9'-6"	10	STR					
A526		1		1	13'-0"	14	STR					
A527		1		1	24'-6"	26	STR					
A528		1		1	15'-9"	17	STR					
A529		1		1	25'-6"	27	STR					
A530		1		1	14'-3"	15	STR					
*A601	25	25		50	5'-11"	445	2	2'-6"	11"	2'-6"		
*A602	30	30		60	2'-6"	226	STR					
ABUTMENT SUB-TOTAL						1828						
GRAND TOTAL						2957						