

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## D04-MCRO-FY2024

**ASHTABULA**  
ORWELL VILLAGE  
ORWELL TOWNSHIP

**SUMMIT**  
CITY OF FAIRLAWN  
COPLEY TOWNSHIP

**STARK**  
CITIES OF CANTON AND MASSILLON  
VILLAGE OF NAVARRE  
TOWNSHIPS OF MARLBORO AND LEXINGTON

**TRUMBULL**  
TOWNSHIPS OF GREENE AND MECCA

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### FEDERAL PROJECT NUMBER

E140849

### RAILROAD INVOLVEMENT

NONE

### PROJECT DESCRIPTION

MICROSURFACING OF VARIOUS ROUTES IN DISTRICT 4.

### EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	N/A (MAINTENANCE PROJECT)
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (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.

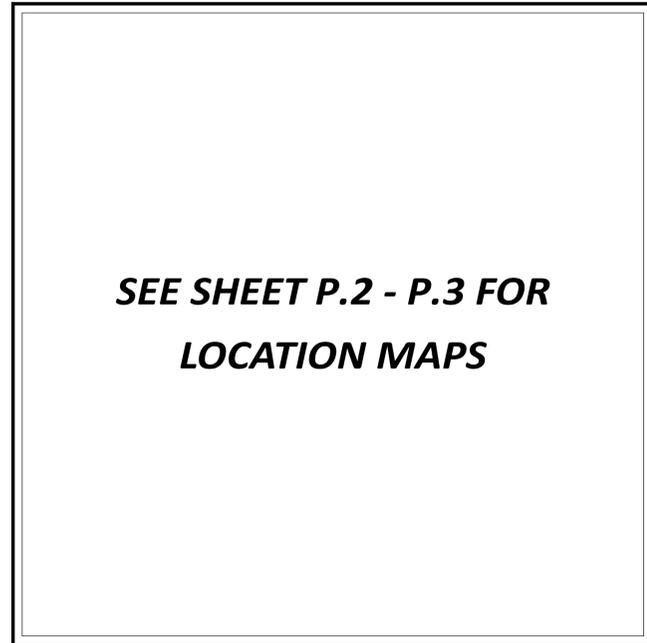
### 2023 SPECIFICATIONS

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 NO DETOUR WILL BE PROVIDED. PROVISIONS FOR MAINTENANCE AND SAFETY WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

*Arthur G. Noiro Jr.*  
Arthur G. Noiro Jr., P.E.  
District 04 Deputy Director

*Jack Marchbanks*  
Jack Marchbanks, PhD  
Director, Department of Transportation



### LOCATION MAP

LATITUDE: 40°57'00" LONGITUDE: 81°11'26"



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

### DESIGN DESIGNATION

ROUTE	NHS	DESIGN FUNCTIONAL CLASSIFICATION
ATB-45 (0.00-1.87)	NO	MINOR ARTERIAL
STA-62 (9.68-11.49)	YES	OTHER PRINCIPAL ARTERIAL
STA-619 (7.35-13.11)	NO	MINOR ARTERIAL
STA-619 (13.34-14.74)	NO	MINOR ARTERIAL
SUM-77 (19.51-22.50)	NO	FREEWAYS AND EXPRESSWAYS
SUM-93 (5.60-7.71)	YES	OTHER PRINCIPAL ARTERIAL
TRU-46 (18.51-23.64)	NO	MAJOR ARTERIAL
TRU-88 (12.32-13.95)	NO	MINOR ARTERIAL

### DESIGN EXCEPTIONS

NONE

### ADA DESIGN WAIVERS

NONE

**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:  
ODOT DISTRICT 4 CAPITAL PLANNING  
2088 S. ARLINGTON ROAD  
AKRON, OH 44306

### STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
DM-4.3	1/15/16	TC-41.20	10/18/13	800-2023	7/21/23	807	01/21/22
DM-4.4	1/15/16	TC-42.10	10/18/13	808	1/18/19	850	07/21/23
		TC-42.20	10/18/13	821	4/20/12	905	04/17/20
BP-9.1	1/18/19	TC-52.10	10/18/13	832	7/21/23		
		TC-52.20	1/15/21	908	10/20/17		
MT-95.30	7/19/19	TC-65.10	1/17/14	921	4/20/12		
MT-95.31	7/19/19	TC-65.11	7/15/22				
MT-95.32	4/19/19	TC-71.10	4/21/23				
MT-95.50	7/21/17						
MT-95.60	4/19/19	TC-72.20	7/21/23				
MT-95.61	4/19/19	TC-73.20	7/21/23				
MT-97.10	4/19/19	TC-74.10	7/21/23				
MT-97.12	1/20/17						
MT-98.29	1/17/20						
MT-98.30	7/17/21						

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SS872

### ENGINEER'S SEAL



TITLE SHEET

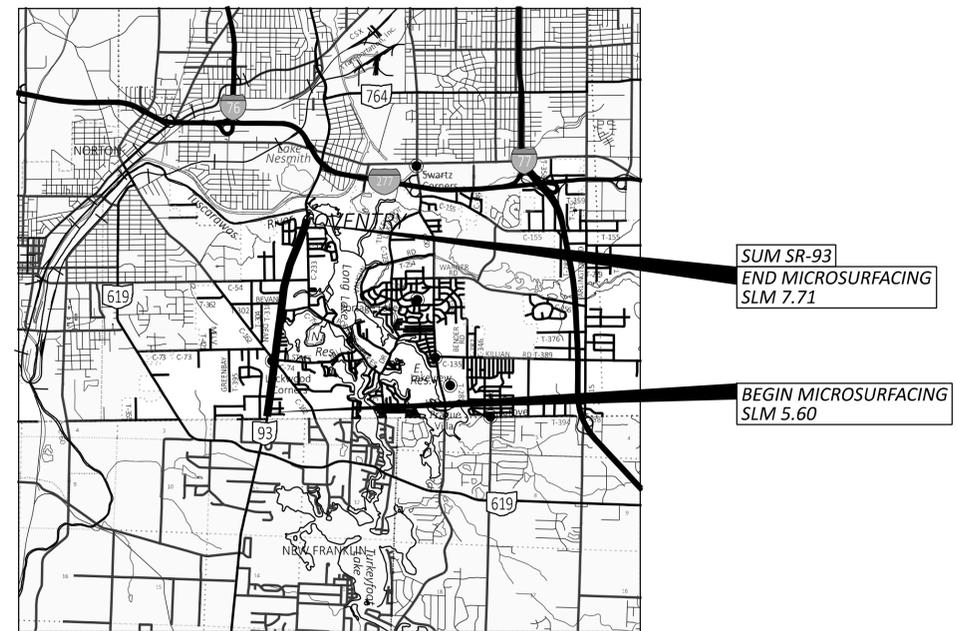
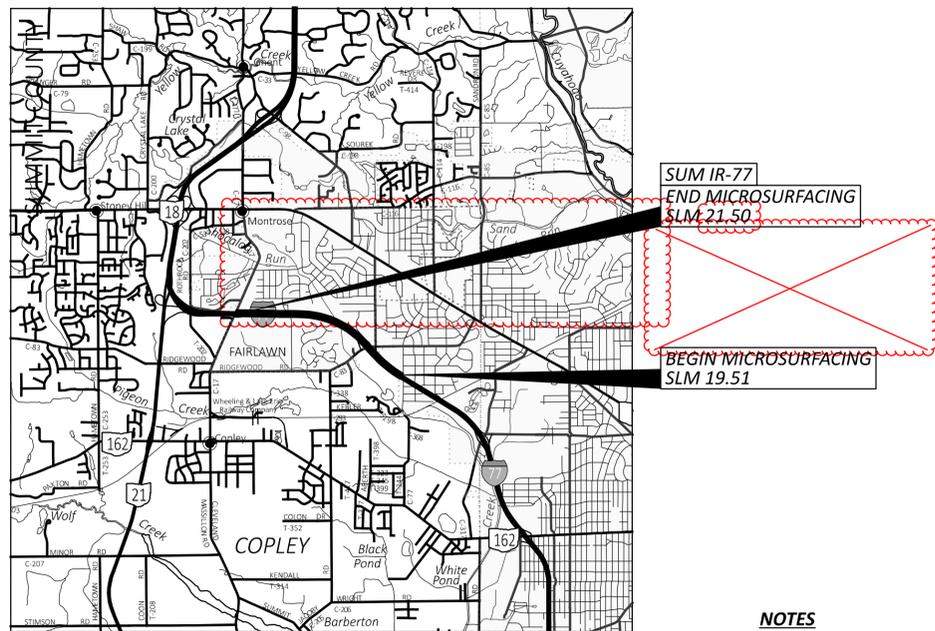
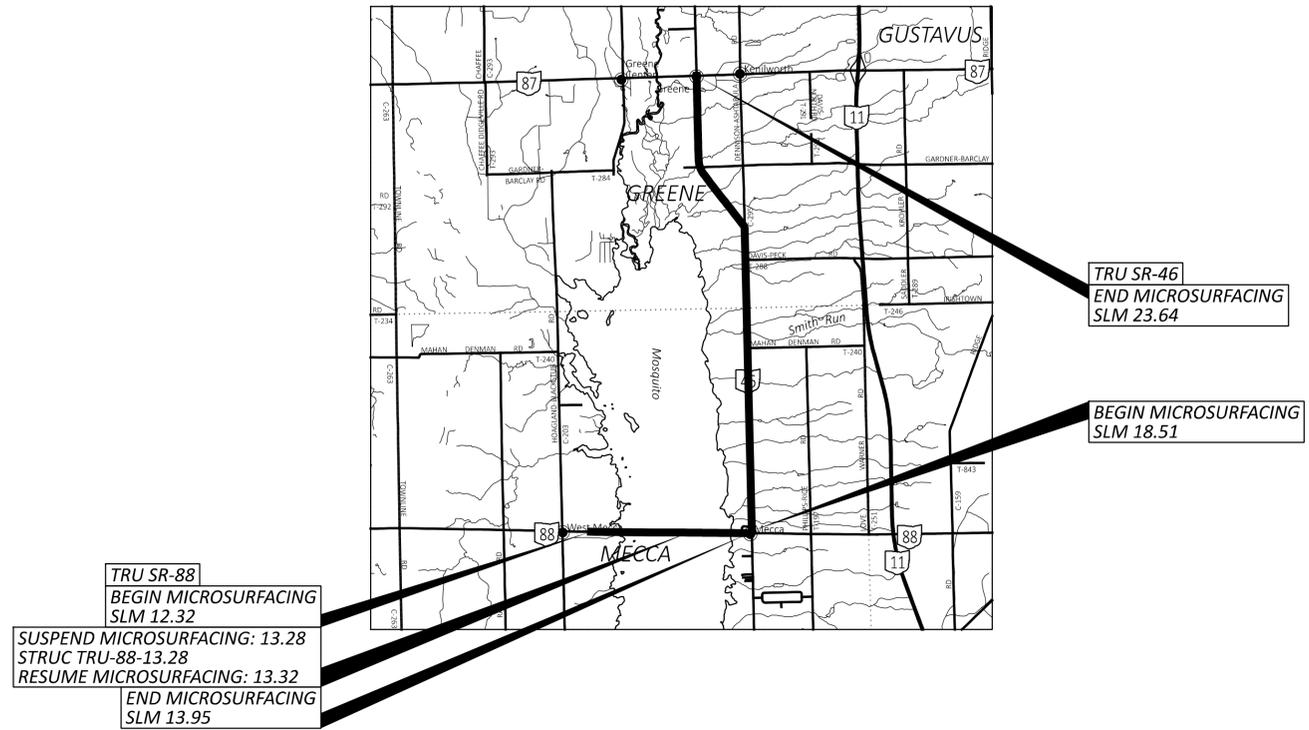
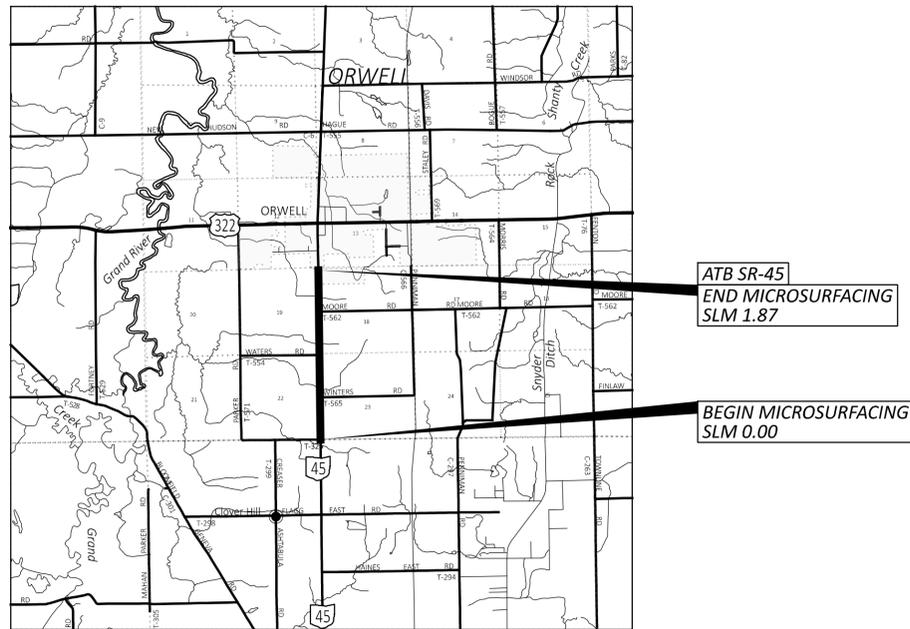
DESIGN AGENCY



DESIGNER	JJM
REVIEWER	CLG
PROJECT ID	09-15-23
SHEET	94136
TOTAL	21

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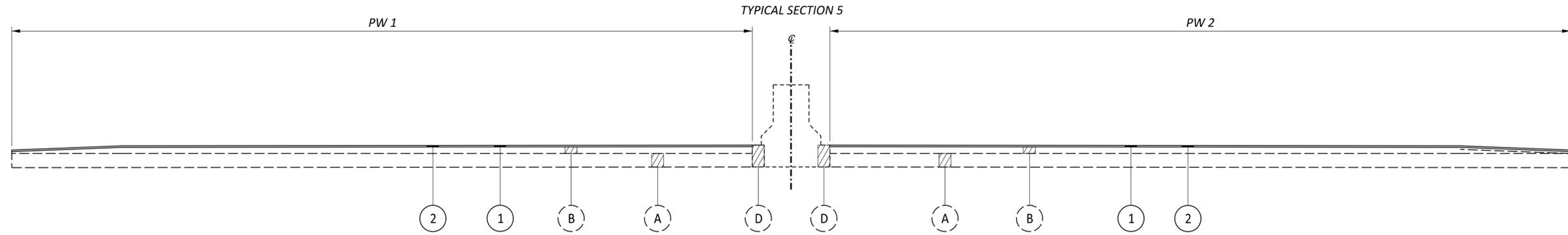
MODEL: Sheet\_SurvFI PAPER SIZE: 34x22 (in.) DATE: 1/26/2024 TIME: 2:42:17 PM USER: cgalan pvc:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 04\_D041941361400-Engineering\Roadway\Sheets\94136\_GT001.dgn



**NOTES**

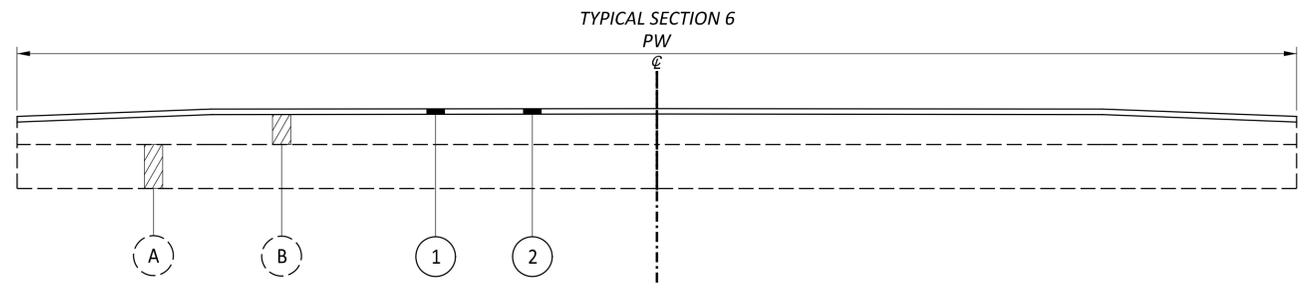
1. THE CONTRACTOR SHALL SUSPEND/RESUME MICROSURFACING AT BRIDGE STRUCTURE APPROACH SLABS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
2. SUM IR-77 RAMP DETAILS SHOWN ON SHEET P.14.





ROUTE	SLM		LENGTH (MILES)	PW (FEET)
	FROM	TO		
SUM-77 SB	19.51	19.63	0.12	63
SUM-77 SB	19.63	20.13	0.49	51
SUM-77 SB	20.13	20.41	0.28	71
SUM-77 SB	20.41	21.20	0.80	51
SUM-77 SB	21.20	21.31	0.10	61
SUM-77 SB	21.31	21.50	0.19	51

ROUTE	SLM		LENGTH (MILES)	PW (FEET)
	FROM	TO		
SUM-77 NB	19.51	19.63	0.12	63
SUM-77 NB	19.63	20.13	0.49	51
SUM-77 NB	20.13	20.41	0.28	71
SUM-77 NB	20.41	21.20	0.80	51
SUM-77 NB	21.20	21.31	0.10	61
SUM-77 NB	21.31	21.57	0.27	51
SUM-77 NB	21.57	21.85	0.28	60
SUM-77 NB	21.85	21.98	0.13	51
SUM-77 NB	21.98	22.50	0.52	53



COUNTY	INTERCHANGE	SLM	DIRECTION	RAMP	PW (FEET)
SUM	IR 77/RIDGEWOOD RD	19.74	NB	1	VARIES
SUM	IR 77/RIDGEWOOD RD	19.59	SB	2	33
SUM	IR 77/RIDGEWOOD RD	20.18	SB	3	VARIES
SUM	IR 77/RIDGEWOOD RD	20.21	NB	4	33
SUM	IR 77/CLEVELAND-MASSILLON RD	21.28	SB	5	25
SUM	IR 77/CLEVELAND-MASSILLON RD	21.30	NB	6	VARIES



**UTILITIES**

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, OHIO811, THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS (MICHELLE CHANEY AT 330-786-2267) AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**PAVEMENT MARKING LANE WIDTHS**

THE NORMAL LANE WIDTH FOR THE PAVEMENT MARKINGS ON THIS PROJECT SHALL BE AS FOLLOWS:

ROUTE	S.L.M. TO S.L.M	LANE WIDTH
ATB-SR-45	0.00 TO 1.87	12'
TRU-SR-46	18.51 TO 23.64	10'
TRU-SR-88	12.32 TO 13.95	12'
SUM-IR-77	19.51 TO 22.50	12'
SUM-SR-93	5.60 TO 7.71	12'
STA-SR-619	7.35 TO 13.11	12'
STA-SR-619	13.34 TO 14.74	12'
STA-US-62	9.68 TO 11.49	12'

**PAVEMENT MARKING DETAILS**

THE PAVEMENT MARKING DETAIL SHEETS HAVE BEEN SUPPLIED AS REFERENCE DOCUMENTS FOR THIS PROJECT AND ARE AVAILBLE ON THE ODOT FTP SITE AT <https://ftp.dot.state.oh.us/pub/contracts/Attach/> FOR THIS PROJECT. FOR ANY LOCATIONS THAT PAVEMENT MARKING DETAILS HAVE NOT BEEN MADE AVAILABLE TO THE CONTRACTOR, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PUT BACK NEW PAVEMENT MARKINGS IN THE ORIGINAL LOCATIONS.

**RUMBLE STRIPS**

THE FOLLOWING ITEMS AND QUANTITIES HAVE BEEN PROVIDED TO INSTALL RUMBLE STRIPS ALONG THE FOLLOWING ROUTE:

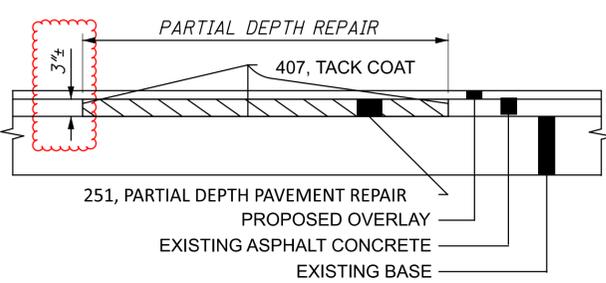
SHOULDER:  
SUM IR 77: SLM 19.51 TO SLM 21.50

THE LONGITUDINAL JOINT PREPARATION PAY ITEM IS ONLY PROVIDED FOR THE LOCATIONS OF THE INSTALLATION OF THE CENTERLINE RUMBLE STRIPES. IN ALL OTHER AREAS WHERE JOINTS ARE REQUIRED THE CONTRACTOR SHALL FOLLOW CMS 401.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY  
ITEM 618 – RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), 8.00 MILES

**ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)**

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE, TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE I PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER 401.13. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. PAVEMENT REPAIRS WILL BE MARKED IN THE FIELD BY THE PROJECT ENGINEER ACCORDING TO CMS 251.02. MINIMUM WIDTH IS 2'. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF MAINLINE PAVEMENT PLANING AND PRIOR TO THE PLACEMENT OF ASPHALT ON THE MILLED SURFACE. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:  
251, PARTIAL DEPTH PAVEMENT REPAIR (441), 8916 SQ. YD.



**COMMUNITY NOTIFICATION**

THE CONTRACTOR WILL ADVISE THE ODOT PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST ALSO PROVIDE NOTIFICATION TO THE ODOT PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO ANY LANE RESTRICTIONS OR CLOSURES. THE ODOT PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE ODOT, DISTRICT 4 OFFICE OF PUBLIC INFORMATION FOR USE TO NOTIFY EMERGENCY SERVICES AND COMMUNITIES A MINIMUM OF FIFTEEN (15) DAYS PRIOR TO THE START OF PROJECT CONSTRUCTION. INCLUDED IN THIS NOTIFICATION WILL BE THE PROJECTED DATES OF ANY LANE RESTRICTIONS OR CLOSURES REQUIRED BY THE PROJECT.

**ITEM 421 - MICROSURFACING, SURFACE COURSE, AS PER PLAN**

ALL REQUIREMENTS OF ITEM 421 APPLY. IN ADDITION, SUPPLY A BLEND OF A MINIMUM OF 50% IGNEOUS DIABASE TRAP ROCK AND A MAXIMUM OF 50% LIMESTONE AGGREGATE SOURCES FOR USE AS AGGREGATE IN ITEM 421. DO NOT USE OTHER AGGREGATES. 703.05 DO NOT USE ANY AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM. OMIT ITEM 421 ON STRUCTURES WITH CONCRETE WEARING SURFACE. THE CONTRACTOR IS RESPONSIBLE FOR COVERING ANY CASTINGS THAT ARE NOT BEING ADJUSTED TO GRADE SO THE MICROSURFACING WILL NOT COVER THE CASTINGS (MONUMENT BOXES, MANHOLES, ETC.).

**PROFILE AND ALIGNMENT**

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

**MICROSURFACING AT RAILROAD CROSSINGS**

THE CONTRACTOR SHALL MICROSURFACE UP TO THE RAILROAD STOP BARS AND NOT ACROSS THE RAILROAD.

**ITEM 646 - REMOVAL OF PAVEMENT MARKING**

THE FOLLOWING TOTALS QUANTITIES HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED IN ACCORDANCE WITH THE ENGINEER.

ATB-45 (0.000-1.868)  
ITEM 646, CENTER LINE, 0.47 MILES  
ITEM 646, EDGE LINE, 3.65 MILES

TRU-46 (18.507-23.640)  
ITEM 646, CENTER LINE, 2.78 MILES  
ITEM 646, EDGE LINE, 10.16 MILES

TRU-88 (12.320-13.946)  
ITEM 646, CENTER LINE, 0.60 MILES  
ITEM 646, EDGE LINE, 3.25 MILES  
ITEM 646, STOP LINE, 15 FEET

SUM-77 (19.510-21.500)  
ITEM 646, CHANNELIZING LINE, 6,000 FEET  
ITEM 646, EDGE LINE, 7.96 MILES  
ITEM 646, LANE ARROWS, 48 EACH  
ITEM 646, STOP LINE, 155 FEET  
ITEM 646, TRANSVERSE DIAGONAL LINE, 38 FEET  
ITEM 646, DOTTED LINES, 3,450 FEET  
ITEM 646, LANE LINES, 1.99 MILES

SUM-93 (5.600-7.710)  
ITEM 646, CENTER LINE, 3.76 MILES  
ITEM 646, EDGE LINE, 1.25 MILES  
ITEM 646, LANE ARROWS, 79 EACH  
ITEM 646, STOP LINE, 192 FEET  
ITEM 646, TRANSVERSE DIAGONAL LINE, 1,063 FEET  
ITEM 646, DOTTED LINES, 1,620 FEET  
ITEM 646, SYMBOL MARKINGS, 6 EACH  
ITEM 646, ISLAND MARKING, 75 SQ FT

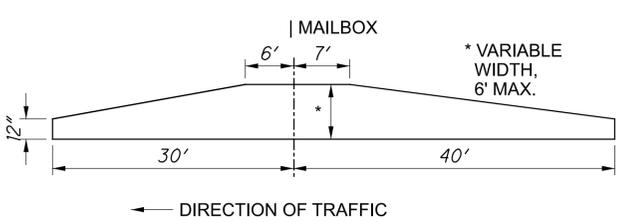
STA-619 (7.349-13.113, 13.337-14.740)  
ITEM 646, CENTER LINE, 8.95 MILES  
ITEM 646, EDGE LINE, 14.08 MILES  
ITEM 646, SYMBOL MARKINGS, 2 EACH  
ITEM 646, STOP LINE, 28 FEET

STA-62 (9.683-11.489)  
ITEM 646, CENTER LINE, 4.25 MILES  
ITEM 646, EDGE LINE, 0.89 MILES  
ITEM 646, LANE ARROWS, 59 EACH  
ITEM 646, STOP LINE, 216 FEET  
ITEM 646, TRANSVERSE DIAGONAL LINE, 634 FEET  
ITEM 646, DOTTED LINES, 2,965 FEET  
ITEM 646, ISLAND MARKING, 66 SQ FT

TOTALS  
ITEM 646, REMOVAL OF PAVEMENT MARKING, 31,756 FEET  
ITEM 646, REMOVAL OF PAVEMENT MARKING, 69.04 MILES  
ITEM 646, REMOVAL OF PAVEMENT MARKING, 179 EACH  
ITEM 646, REMOVAL OF PAVEMENT MARKING, 141 SQ FT

**MICROSURFACED MAILBOX APPROACHES**

ALL EXISTING MAIL BOX APPROACHES WILL BE MICROSURFACED. THE CONSTRUCTOR SHALL MICROSURFACE THE MAILBOX APPROACHES WHEN PAVING THE MAINLINE SHOULDERS OR AS DIRECTED BY THE WNGINEER. ALL INCIDENTALS SHALL BE INCLUDED IN ITEM 421.



**ITEM SPECIAL - AS-BUILT CONSTRUCTION PLANS**

PRIOR TO FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL FURNISH THE DEPARTMENT FORMAL AS-BUILT CONSTRUCTION PLANS. THE FORMAL AS-BUILT CONSTRUCTION PLANS SHALL INCLUDE ALL RED-LINED CHANGES. RED-LINE CHANGE SHALL BE DENOTED UTILIZING CLOUDING IN MICROSTATION (OR OTHER CAD SOFTWARE) OR CLOUDING IN PDF EDITING SOFTWARE. THE AS-BUILT CONSTRUCTION PLANS SHALL HAVE A SIGNED VERIFICATION ON THE TITLE SHEET FROM THE CONTRACTOR INDICATING THAT ALL RED-LINED AND FIELD CHANGES HAVE BEEN INCORPORATED INTO AS-BUILT CONSTRUCTION PLANS.

THE CONTRACTORS VERIFICATION STATEMENT INDICATES ALL KNOWN FIELD MODIFICATIONS MADE HAVE BEEN INCLUDED IN THE FORMAL AS-BUILT CONSTRUCTION PLANS. THE CONTRACTORS VERIFICATION STATEMENT SHALL BE SIGNED BY THE CONTRACTORS PROJECT MANAGER (OR ACCEPTABLE REPRESENTATIVE).

IN ADDITION TO THE INFORMATION SHOWN ON THE CONSTRUCTION PLANS, THE AS-BUILT CONSTRUCTION PLANS SHALL SHOW THE FOLLOWING:

1. ALL DEVIATIONS FROM THE ORIGINAL APPROVED CONSTRUCTION PLANS WHICH RESULT IN A CHANGE OF LOCATION, MATERIAL, TYPE OR SIZE OF WORK.
2. ANY UTILITIES, PIPES, WELLHEADS, ABANDONED PAVEMENTS, FOUNDATIONS OR OTHER MAJOR OBSTRUCTIONS DISCOVERED AND REMAINING IN PLACE WHICH ARE NOT SHOWN, OR DO NOT CONFORM TO LOCATIONS OR DEPTHS SHOWN IN THE PLANS. UNDERGROUND FEATURES SHALL BE SHOWN AND LABELED ON THE AS-BUILT CONSTRUCTION PLANS IN TERMS OF STATION, OFFSET AND ELEVATION.
3. THE FINAL OPTION AND SPECIFICATION NUMBER SELECTED FOR THOSE ITEMS WHICH ALLOW SEVERAL MATERIAL OPTIONS UNDER THE SPECIFICATION (E.G., CONDUIT).
4. CHANGES TO THE PAY ITEMS AND FINAL QUANTITIES AS PAID SHALL BE SHOWN ON THE GENERAL SUMMARY AND SUBSUMMARIES.
5. ADDITIONAL PLAN SHEETS MAY BE NEEDED IF NECESSARY TO SHOW WORK NOT INCLUDED IN THE CONSTRUCTION PLANS. IF ADDITIONAL PLAN SHEETS ARE NEEDED, THEY ARE REQUIRED TO BE PREPARED IN CONFORMANCE WITH THE LOCATION AND DESIGN MANUAL, VOLUME 3, SECTION 1200 - PLAN PREPARATION.

NOTATION SHALL ALSO BE MADE OF LOCATIONS AND THE EXTENT OF USE OF MATERIALS, OTHER THAN SOIL, FOR EMBANKMENT CONSTRUCTION (ROCK, BROKEN CONCRETE WITHOUT REINFORCING STEEL, ETC.).

THE PLAN INDEX SHALL SHOW THE PLAN SHEETS WHICH HAVE CHANGES APPEARING ON THEM.

TWO COPIES OF THE AS-BUILT CONSTRUCTION PLANS SHALL BE DELIVERED TO THE PROJECT ENGINEER FOR APPROVAL UPON COMPLETION OF THE PHYSICAL WORK BUT PRIOR TO THE REQUEST FOR FINAL PAYMENT. AFTER THE DEPARTMENT HAS APPROVED THE AS-BUILT CONSTRUCTION PLANS, THE ASSOCIATED ELECTRONIC FILES SHALL BE DELIVERED TO THE DISTRICT CAPITAL PROGRAMS ADMINISTRATOR. ACCEPTANCE OF THESE PLANS AND DELIVERY OF THE ASSOCIATED ELECTRONIC FILES IS REQUIRED PRIOR TO THE WORK BEING ACCEPTED AND THE FINAL ESTIMATE APPROVED.

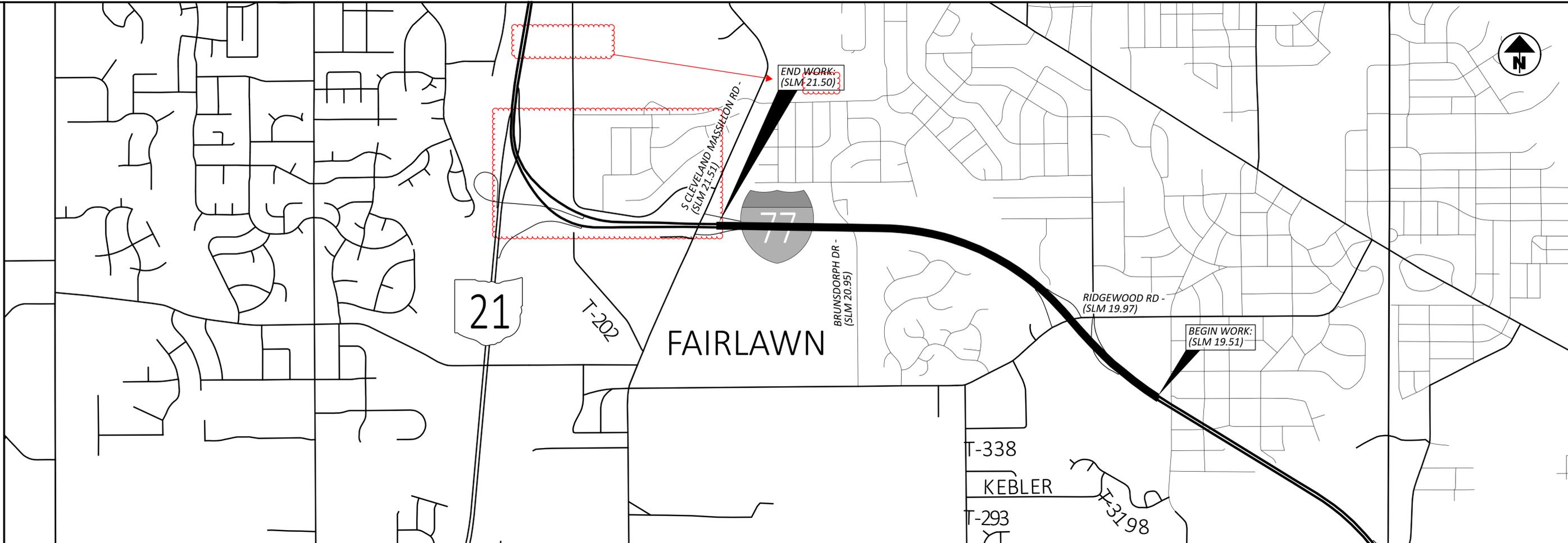
PAYMENT FOR ALL THE ABOVE SHALL BE LUMP SUM UPON PROPER EXECUTION OF ALL WORK OF THIS ITEM AS DETERMINED BY THE PROJECT ENGINEER.

**INTERIM START DATE (SUM-77)**

ALL WORK ON SUM-77 SHALL NOT COMMENCE UNTIL 5/01/2025.







SLM RANGE	TYPICAL SECTION	DIRECTION	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	421														
			FT	FT	SQ YD		SQ YD	MICROSURFACING, SURFACE COURSE, AS PER PLAN	MICROSURFACING, LEVELING COURSE	SY	SY										
SUM-IR-77																					
19.51	TO	19.63	5	NB/SB	633.60	126.00	8870.40			8870.40	8870.40										
19.63	TO	20.13	5	NB/SB	2640.00	102.00	29920.00			29920.00	29920.00										
20.13	TO	20.41	5	NB/SB	1478.40	142.00	23325.87			23325.87	23325.87										
20.41	TO	21.20	5	NB/SB	4171.20	102.00	47273.60			47273.60	47273.60										
21.20	TO	21.31	5	NB/SB	580.80	122.00	7873.07			7873.07	7873.07										
21.31	TO	21.50	5	NB/SB	1003.20	102.00	11369.60			11369.60	11369.60										
SUM-IR77 RAMPS																					
	RAMP 1		6	NB	900.00	35.00	3500.00			3500.00	3500.00										
	RAMP 2		6	SB	1550.00	33.00	5683.33			5683.33	5683.33										
	RAMP 3		6	SB	1100.00	35.00	4277.78			4277.78	4277.78										
	RAMP 4		6	NB	1100.00	33.00	4033.33			4033.33	4033.33										
	RAMP 5		6	SB	1000.00	25.00	2777.78			2777.78	2777.78										
	RAMP 6		6	NB	1180.00	32.00	4195.56			4195.56	4195.56										
SUBTOTALS								153100.31	153100.31												
TOTALS CARRIED TO GENERAL SUMMARY								153101	153101												

PAVEMENT CALCULATIONS

DESIGN AGENCY  
  
 DESIGNER  
 JJM  
 REVIEWER  
 CLG 09-15-23  
 PROJECT ID  
 94136  
 SHEET TOTAL  
 P.14 | 21

COUNTY	ROUTE	LOCATION		621 RPM (YELLOW/YELLOW)	621 RPM (WHITE/RED)	621 RPM (WHITE)	621 RPM (YELLOW/RED)	621 RAISED PAVEMENT MARKER REMOVED	REMARKS
		FROM	TO						
ATB	45	0.00	1.87	124				100	Centerline Only (No Stops, Curves, No existing channelized RPMs)
STA	62	9.68	11.49	231	234	96		449	2-way Left Turns, approach with left turn, 2-lane, 1-lane, stop approaches, curve
STA	619	7.35	13.11	381		32		330	2 stop approaches
STA	619	13.34	14.74	93				74	Centerline Only
SUM	77	19.51	21.50		136	459	72	534	6 Gores, 6 Ramps
SUM	93	5.60	7.71	228	161	128		414	2-way Left Turns, Approach with left turn, 2-lane, stop approach
TRU	46	18.51	23.64	344		16		288	2 curves, 1 stop approach
TRU	88	12.32	13.95	108		16		99	No curves, No intersections, 1 stop approach
TOTALS CARRIED TO GENERAL SUMMARY				1509	531	747	72	2288	

RAISED PAVEMENT MARKERS

DESIGN AGENCY  
  
 DESIGNER  
 JJM  
 REVIEWER  
 CLG 09-15-23  
 PROJECT ID  
 94136  
 SHEET TOTAL  
 P.19 | 21

