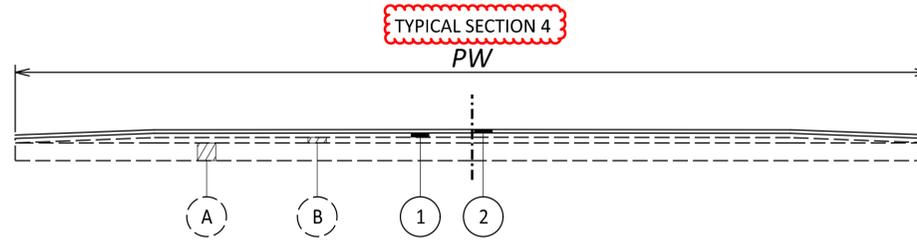


**LEGEND**

- (A) EXISTING CONCRETE BASE
- (B) EXISTING ASPHALT SURFACE
- (C) EXISTING COMPACTED AGREGATE
- (D) EXISTING CURB
- (E) EXISTING MEDIAN
- 1 ITEM 421, MICROSURFACING, SURFACE COURSE, AS PER PLAN
- 2 ITEM 421, MICROSURFACING, LEVELING COURSE, AS PER PLAN



TYPICAL SECTION 5 APPLIES: SUM 271 RAMPS

COUNTY	INTERCHANGE	SLM	DIRECTION	RAMP	PW (FEET)
SUM	IR 271/REST AREA	0.89	NB	N/A	VARIES
SUM	REST AREA/IR 271	1.01	SB	N/A	VARIES
SUM	REST AREA/IR 271	1.18	NB	N/A	VARIES
SUM	IR 271/REST AREA	1.29	SB	N/A	VARIES
SUM	IR 271/BRECKSVILLE RD	2.80	NB	K	VARIES
SUM	BRECKSVILLE RD/IR 271	2.82	SB	J	VARIES
SUM	IR 77/IR 271	3.32	SB	A	VARIES
SUM	IR 271/IR 77	3.35	NB	C	VARIES
SUM	IR 271/IR 77	3.56	SB	D	VARIES
SUM	IR 77/IR 271	3.70	NB	B	VARIES
SUM	SR 303/ IR 271	5.79	SB	F	VARIES
SUM	IR 271/SR 303	5.84	NB	E	VARIES
SUM	IR 271/SR 303	5.94	SB	G	VARIES
SUM	SR 303/ IR 271	5.99	NB	H	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	15.27 TO 18.88	12'
ATB-SR-45	22.28 TO 24.08	12'
POR-SR-303	8.73 TO 13.04	10'
STA-SR-43	20.38 TO 23.09	11'
SUM-IR-271	0.00 TO 6.55	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.

**PROFILE AND ALIGNMENT**

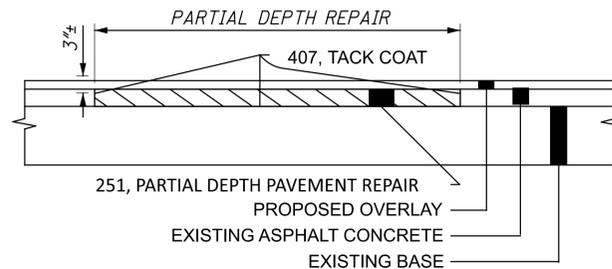
PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

**MICROSURFACING AT RAILROAD CROSSINGS**

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

**ITEM 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.).

**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 (15.27-18.88, 22.28-23.00)
  - ITEM 646, CENTER LINE, 4.09 MILES
  - ITEM 646, CHANNELIZING LINE, 100 FEET
  - ITEM 646, SYMBOL MARKINGS, 2 EACH
  - ITEM 646, EDGE LINE, 8.55 MILES
  - ITEM 646, LANE ARROWS, 3 EACH
  - ITEM 646, STOP LINE, 62 FEET

- ATB-45 (23.00-24.08)
  - ITEM 646, CENTER LINE, 1.84 MILES
  - ITEM 646, CHANNELIZING LINE, 888 FEET
  - ITEM 646, SYMBOL MARKINGS, 1 EACH
  - ITEM 646, EDGE LINE, 2.16 MILES
  - ITEM 646, LANE ARROWS, 11 EACH
  - ITEM 646, STOP LINE, 79 FEET
  - ITEM 646, TRANSVERSE DIAGONAL LINE, 351 FEET

- POR-303 (8.73-13.04)
  - ITEM 646, CENTER LINE, 4.31 MILES
  - ITEM 646, SYMBOL MARKINGS, 1 EACH
  - ITEM 646, EDGE LINE, 8.58 MILES
  - ITEM 646, STOP LINE, 24 FEET

- STA-43 (20.38-23.09)
  - ITEM 646, CENTER LINE, 2.71 MILES
  - ITEM 646, EDGE LINE, 5.35 MILES
  - ITEM 646, STOP LINE, 24 FEET

- SUM-271 (0.00-6.50)
  - ITEM 646, CHANNELIZING LINE, 12415 FEET
  - ITEM 646, EDGE LINE, 31.55 MILES
  - ITEM 646, LANE ARROWS, 12 EACH
  - ITEM 646, STOP LINE, 130 FEET
  - ITEM 646, TRANSVERSE DIAGONAL LINE, 300 FEET
  - ITEM 646, DOTTED LINES, 10670 FEET
  - ITEM 646, LANE LINES, 3.25 MILES

- TOTALS**
- ITEM 646, REMOVAL OF PAVEMENT MARKING, 25043 FEET
  - ITEM 646, REMOVAL OF PAVEMENT MARKING, 72.39 MILE
  - ITEM 646, REMOVAL OF PAVEMENT MARKING, 30 EACH

**CATCH BASIN ADJUSTED TO GRADE**

AN ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ADJUSTING CATCH BASINS TO GRADE.

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF REQUIRED TYPE, SIZE AND STRENGTH. ENSURE ALL MATERIAL MEETS CMS ITEM 611 AND HAS PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

- ITEM 611 – CATCH BASIN ADJUSTED TO GRADE, 7 EACH
- ITEM SPECIAL – MISCELLANEOUS METAL, 300 LB

**ITEM 611 – MANHOLE ADJUSTED TO GRADE, AS PER PLAN  
 ITEM 623 – MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF CMS 611.10.D FOR MANHOLES, 623.05 FOR MONUMENT BOXES, OR 638.18 FOR VALVE BOXES, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (48" DIAMETER FOR STORM AND SANITARY MANHOLE CASTINGS, 24"-28" FOR VALVE AND MONUMENT BOXES, AND 2' IN DIAMETER LARGER THAN THE CASTING DIAMETER FOR ANY CASTINGS THAT ARE LARGER THAN STANDARD MANHOLES SUCH AS TELECOMMUNICATION MANHOLE CASTINGS) AND REMOVE AND DISCARD THE EXISTING CASTING. INSTALL A NEW CASTING TO GRADE (ACCORDING TO TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN REPLACED.

CMS 499 CLASS QCMS CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

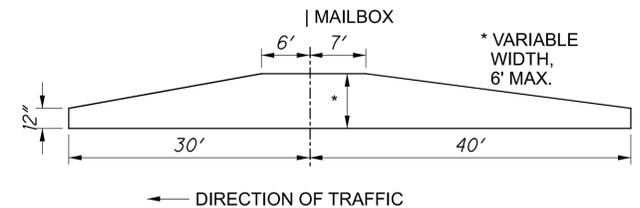
PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING, AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

- ITEM 611 – MANHOLE ADJUSTED TO GRADE, AS PER PLAN, 6 EACH
- ITEM 623 – MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN, 12 EACH

**MICROSURFACED MAILBOX APPROACHES**

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



DESIGN AGENCY



DESIGNER	MRS
REVIEWER	CLG
PROJECT ID	08-10-22
	105059
SHEET	TOTAL
P.8	21

**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 10 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.

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

- 614, WORK ZONE MARKING SIGN, (ALL PHASES), 20 EACH
- 614, WORK ZONE CENTERLINE, CLASS III, 642 PAINT, 29.1 MILE
- 614, WORK ZONE LANE LINE, CLASS III, 642 PAINT, 9.75 MILE
- 614, WORK ZONE STOP LINE, CLASS III, 642 PAINT, 417 FT
- 614, WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT, 39221 FT
- TO BE USED AS DIRECTED BY THE ENGINEER
- 614, WORK ZONE EDGE LINE, CLASS III, 143.93 MILE

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.

**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	2 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.

**FLOODLIGHTING**

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

**LANE CLOSURES**

DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. THE PERMITTED LANE CLOSURE CHART USED FOR THIS PROJECT SHALL BE THE MOST CURRENT CHART AVAILABLE ON THE DATE THIS PROJECT SELLS.

THE CHART CAN BE FOUND AT:  
<http://plcm.dot.state.oh.us>

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE REQUIREMENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$10,000 PER HOUR OR PORTION THEREOF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

**RAMP CLOSURES**

RAMPS SHALL NOT BE CLOSED CONCURRENTLY UNLESS APPROVED BY THE PROJECT ENGINEER.

**COOPERATION BETWEEN CONTRACTORS**

THE CONTRACTOR SHALL BE ADVISED THAT THE FOLLOWING PROJECTS MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND/OR WITHIN THE PROJECT LIMITS OF THIS PROJECT.

- D04-BH-FY2023 (PID 105170)
- ATB-307-7.64/19.87 (PID 105171)
- STA-43/VAR-12.70/VAR (PID 102743)
- SUM-176/303-0.23/0.00 (PID 110668)

WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECEIVE DAILY APPROVALS FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

**ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)**

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
ROAD & RAMP CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

**ITEM 614 - MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR)**

TRAFFIC ON ALL RAMPS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD SPECIFIED IN THE TABLES SHOWN ON SHEET 13, TRAFFIC SHALL BE DETOURED AS SHOWN ON SHEETS 13. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$3,000 PER HOUR FOR EACH HOUR THE ROADWAY REMAINS CLOSED BEYOND THE SPECIFIED LIMIT.



SHEET NUM.										PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
8	10	11	15	16	17	18	19	20	21	01/IMS/05	02/NHS/05	03/S5K/05	04/STR/05							
<b>ROADWAY</b>																				
12											4		8	623	39501	12	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN	8	
<b>EROSION CONTROL</b>																				
											3,000			832	30000	3,000	EACH	EROSION CONTROL		
<b>DRAINAGE</b>																				
7												5	2	611	98630	7	EACH	CATCH BASIN ADJUSTED TO GRADE		
6												6		611	99655	6	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	8	
300												300		SPECIAL	61199820	300	LB	MISCELLANEOUS METAL	8	
<b>PAVEMENT</b>																				
8,916											8,916			251	01000	8,916	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)		
		103,005		76,658	43,975	380,184					380,184	43,975	25,370	154,293	421	10011	603,822	SY	MICROSURFACING, SURFACE COURSE, AS PER PLAN	8
						380,184					380,184			421	10020	380,184	SY	MICROSURFACING, LEVELING COURSE		
<b>TRAFFIC CONTROL</b>																				
							2,282				1,294	207	163	618	621	00100	2,282	EACH	RPM	
							1,829				1,036	166	131	496	621	54000	1,829	EACH	RAISED PAVEMENT MARKER REMOVED	
								24.64	31.55		31.55	5.35	2.16	17.13	646	10010	56.19	MILE	EDGE LINE, 6"	
									13		13				646	10100	13	MILE	LANE LINE, 4"	
								12.43				2.71	1.08	8.64	646	10200	12.43	MILE	CENTER LINE	
									988	12,415	12,415		888	100	646	10310	13,403	FT	CHANNELIZING LINE, 12"	
									189	130	130	24	79	86	646	10400	319	FT	STOP LINE	
									351	300	300		351		646	10600	651	FT	TRANSVERSE/DIAGONAL LINE	
									3				1	2	646	20000	3	EACH	RAILROAD SYMBOL MARKING	
									1					1	646	20110	1	EACH	SCHOOL SYMBOL MARKING, 96"	
									14	10		11	3	646	20300	24	EACH	LANE ARROW		
									2	2				646	20320	2	EACH	WRONG WAY ARROW		
									10,670	10,670				646	20502	10,670	FT	DOTTED LINE, 4"		
30											12	12	6	646	50000	30	EACH	REMOVAL OF PAVEMENT MARKING		
25,043											23,515	24	1,318	186	646	50100	25,043	FT	REMOVAL OF PAVEMENT MARKING	
72.39											33.03	8.44	4.19	26.73	646	50300	72.39	MILE	REMOVAL OF PAVEMENT MARKING	
<b>MAINTENANCE OF TRAFFIC</b>																				
								50			10	10	10	20	614	11110	50	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
											LS	LS	LS	LS	614	12420	LS		DETOUR SIGNING	
	20										4	4	4	8	614	12460	20	EACH	WORK ZONE MARKING SIGN	
		14									14				614	12471	14	EACH	WORK ZONE SPEED LIMIT SIGN, AS PER PLAN	11
	10										2	2	2	4	614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
											2	2	2	4	614	18601	10	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	11
											9.75				614	20560	9.75	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
												6.08	4.13	18.89	614	21550	29.1	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
											80.83	13.68	5.47	43.95	614	22360	143.93	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
											36,332		2,589	300	614	23690	39,221	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
											170	32	103	112	614	26610	417	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
<b>INCIDENTALS</b>																				
											LS				614	11000	LS		MAINTAINING TRAFFIC	
											6				619	16010	6	MNTH	FIELD OFFICE, TYPE B	
											LS				623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS				624	10000	LS		MOBILIZATION	
									14						808	18700	14	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	

GENERAL SUMMARY

DESIGN AGENCY

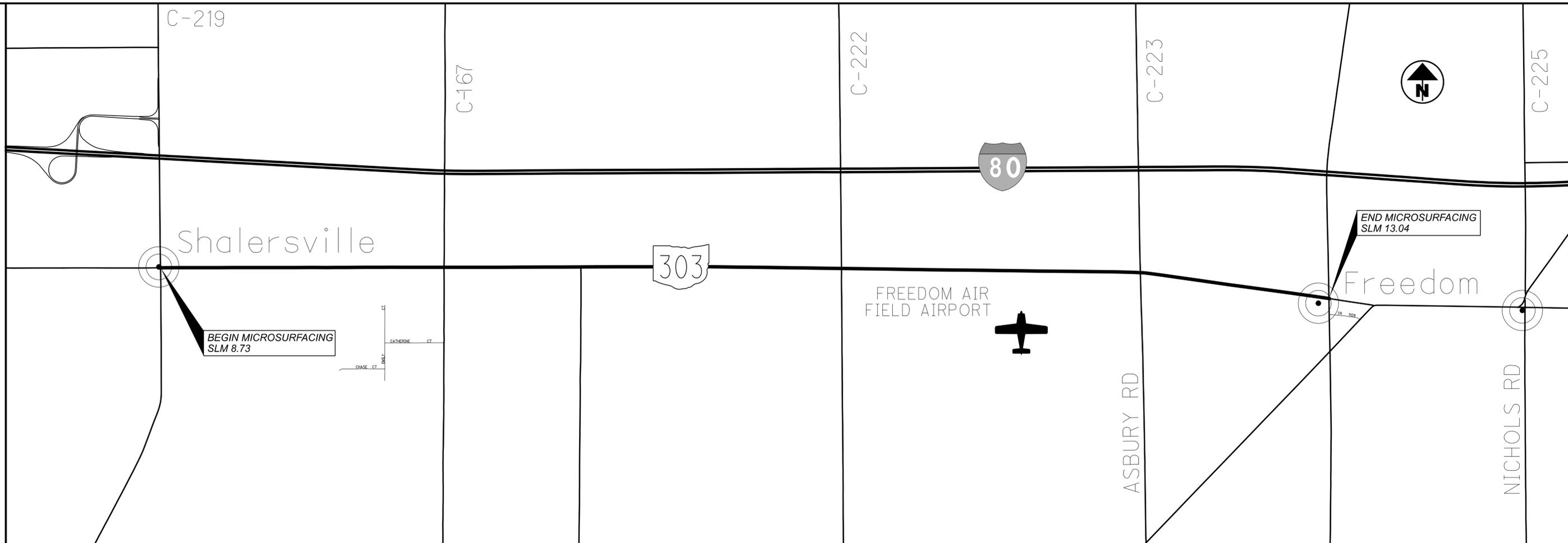


DESIGNER  
MRS

REVIEWER  
CLG 08-10-22

PROJECT ID  
105059

SHEET TOTAL  
P.14 | 21



SLM RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA SQ YD	421		MICROSURFACING, SURFACE COURSE, AS PER PLAN SY
			FT	FT	SQ YD		SQ YD	SY	
POR-303									
8.73 TO 8.82	1	L/R	475.20	33.00	1742.40				1742.40
8.82 TO 10.50	1	L/R	8870.40	33.00	32524.80				32524.80
10.50 TO 10.52	2	L/R	105.60	40.00	469.33				469.33
10.52 TO 13.04	1	L/R	13305.60	27.00	39916.80				39916.80
POR-303 MAILBOX APPROACHES									
8.73 TO 13.04						2004.17			2004.17
SUBTOTALS									76657.50
TOTALS CARRIED TO GENERAL SUMMARY									76658

PAVEMENT CALCULATIONS - POR SR-303

DESIGN AGENCY  
  
 DESIGNER  
 MRS  
 REVIEWER  
 CLG 08-10-22  
 PROJECT ID  
 105059  
 SHEET TOTAL  
 P.16 | 21

D04-MCRO-FY2023

MODEL: Sheet - Copy-1 - Copy-1 - PAPER SIZE: 34x22 (in.) DATE: 2/6/2023 TIME: 11:24:19 AM USER: msansky  
 p:\vohodoc-pw-bentley.com\shodoc-pw-02\Documents\01 Active Projects\District 04\Maining\105059\400-Engineering\Roadway\Sheets\105059\_GS002.dgn

EDGE LINE												GENERAL SPEC: 640
												MATERIAL TYPE: 644
CTY	ROUTE	TRUE LOG	FROM	TRUE LOG	TO	WHITE EDGE LINE, 6"			YELLOW EDGE LINE, 6"			COMMENTS
						TOTAL	HIGHWAY	RAMP	TOTAL	HIGHWAY	RAMP	
SUM	271 NB	0.00	EAST BORDER OF SUMMIT COUNTY	6.50	S ~ 300' IR 80 OVERPASS	7.86	5.16	2.70	7.95	6.50	1.45	
SUM	271 SB	0.00	EAST BORDER OF SUMMIT COUNTY	6.50	S ~ 300' IR 80 OVERPASS	7.96	4.97	2.99	7.79	6.50	1.29	
TOTAL						15.81	10.12	5.69	15.74	13.00	2.74	

LANE LINE											
CTY	ROUTE	TRUE LOG	FROM	TRUE LOG	TO	TOTAL MILES	4" LANE LINE		COMMENTS		
							DASHED	SOLID			
SUM	271 NB	0.00	EAST BORDER OF SUMMIT COUNTY	6.50	S ~ 300' IR 80 OVERPASS	6.50	1.63				
SUM	271 SB	0.00	EAST BORDER OF SUMMIT COUNTY	6.50	S ~ 300' IR 80 OVERPASS	6.50	1.63				
TOTAL						13.00	3.25				

CENTER LINE											
CTY	ROUTE	TRUE LOG	FROM	TRUE LOG	TO	TOTAL MILES	EQUIVALENT SOLID LINE		COMMENTS		
TOTAL											

AUXILIARY																						
CTY	ROUTE LOCATION	TRUE LOG	CHANNEL LINE	STOP LINE	CROSS WALK LINES	TRANSVERSE DIAGONAL LINES		ISLAND MARKING	SYMBOL MARKINGS				LANE ARROWS				WORD ON PVMT ONLY		DOTTED LINES	COMMENTS		
						FT	FT		FT	FT	SQ FT	RxR	SCHOOL		TURN LEFT	TURN RIGHT	THRU	WRONG WAY			72"	96"
													72"	96"								
	NB RAMP: IR 271 / REST AREA	0.890	800															465	INCLUDES ALL AUX. MARKINGS ON GIVEN RAMP			
	SB RAMP: REST AREA / IR 271	1.010	1140															1090	INCLUDES ALL AUX. MARKINGS ON GIVEN RAMP			
	NB RAMP: REST AREA / IR 271	1.180	1420															875	INCLUDES ALL AUX. MARKINGS ON GIVEN RAMP			
	SB RAMP: IR 271 / REST AREA	1.290	800															440	646E10010			
	RAMP K: IR 271 / BRECKSVILLE RD	2.800	580	70									2					505	INCLUDES ALL AUX. MARKINGS ON GIVEN RAMP			
	RAMP J: BRECKSVILLE RD / IR 271	2.820	1230															1050	INCLUDES ALL AUX. MARKINGS ON GIVEN RAMP			
	RAMP A: IR 77 / IR 271	3.320	1000															1060	INCLUDES ALL AUX. MARKINGS ON RAMP A			
	RAMP C: IR 271 / IR 77	3.350	600			100												630	INCLUDES ALL AUX. MARKINGS ON RAMP B			
	RAMP D: IR 271 / IR 77	3.560	630			100												530	INCLUDES ALL AUX. MARKINGS ON RAMP D			
	RAMP B: IR 77 / IR 271	3.700	1200															1060	INCLUDES ALL AUX. MARKINGS ON RAMP C			
	RAMP F: SR 303 / IR 271	5.800	1230															1085	INCLUDES ALL AUX. MARKINGS ON RAMP F			
	RAMP E: SR IR 271 / SR 303	5.840	720	30								2	2					510	INCLUDES ALL AUX. MARKINGS ON RAMP E			
	RAMP G: SR IR 271 / SR 303	5.950	665	30								2	2					520	INCLUDES ALL AUX. MARKINGS ON RAMP G			
	RAMP H: SR 303 / IR 271	5.990	400															850	INCLUDES ALL AUX. MARKINGS ON RAMP H			
TOTAL			12415	130		200	100					4	4	2	2			10670				

PAVEMENT MARKINGS

DESIGN AGENCY



DESIGNER: MRS  
 REVIEWER: CLG  
 PROJECT ID: 105059  
 SHEET: P.21 TOTAL: 21