

General

Project Description

This project consists of the Preventive Maintenance Resurfacing in Cuyahoga County of I.R. 271 from Fairmount Blvd (SLM 9.73) to South of Wilson Mills Road (SLM 13.63) in the Cities of Lyndhurst, Mayfield Heights, and Pepper Pike.

Existing Typical Sections

Existing typical sections have been taken from the records and are believed to represent the existing pavement, but the State of Ohio does not guarantee the accuracy of the same.

For further information in regard to the existing typical sections and drainage details, the Contractor shall refer to the previous construction plans.

These plans may be reviewed at the following location:

Ohio Department of Transportation
 District 12 Office
 5500 Transportation Boulevard
 Garfield Heights, Ohio 44125

Right of Way

All work shall be performed within the existing right of way or easements.

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.

Contingency Quantities

The Contractor shall not order materials or perform work for items designated by plan note to be used "As Directed By The Engineer" unless authorized by the Engineer. The actual work locations and quantities used for such items shall be incorporated into the final change order governing completion of this project.

Equipment and Material Storage

In order to provide for the safety of the traveling public the Contractor's attention is directed to 614.03. In addition, the following provisions shall apply:

1. Any removed items shall not be stored on the right of way for more than thirty (30) days.
2. The storage of equipment, materials, and vehicles within the highway right of way will be permitted. The number of areas and exact locations shall be approved by the Engineer.
3. All disturbed areas shall be returned to their original condition at no expense to the state.

Cooperation Between Contractors

The Contractor shall cooperate and coordinate his/her operations with the contractors on other projects that may be in force during the life of the contract. No waiver of any provisions of 105.07 of the Construction and Material Specifications is intended.

Staging Areas

There are no specific areas given in the plans for the Contractor to use as a staging area(s). If the Contractor wants to use an area(s) for staging, regardless if it falls within the project limits or not, the Contractor is to use the Right of Way E-Permitting System at <https://odhcp.bemcorp.net/Accounts/Account/Account> in order to apply for a permit per Section 107.02 of the CMS. For specific permitting questions, the Contractor can contact the District Permitting Office, (Melvin Safford) at 216-584-2137 or at District12Permits@dot.ohio.gov.

If a permit is granted, all conditions of the permit shall be met in addition to the requirements of 104.04 of the CMS, at no additional cost to the State. If the Project Engineer deems that all the conditions of the permit were not met, then 10% of the Contract bid amount for mobilization shall be withheld until all the conditions of the permit are satisfied.

Protection of Right-of-Way Landscaping

Prior to beginning work, the Contractor, the Project Engineer and a representative of the maintaining agency will review and record all landscaping items within the right-of-way (both within and outside the construction limits). A record of this review will be kept in the Project Engineer's files. Prior to final acceptance, a final review of landscaping items will be made.

Constrict all activities, equipment storage and staging to within the construction limits. Unless otherwise identified in the plans or proposal, the construction limits are identified as 30 feet from the edge of pavement.

Submit a written request to the Project Engineer to use any area outside these limits. The document submitted must clearly identify the area and explain the proposed use and restoration of the area. Use of these areas for disposal of waste material and construction debris, excavation of borrow material and placement of portable plants is prohibited. The request must be approved, in writing, before the Contractor has permission to use the area.

Any items damaged beyond the construction limits, as defined above, will be replaced in kind or as approved by the Project Engineer.



Item 623 - Construction Layout Stakes and Surveying, As Per Plan

After completion of all work, but prior to final acceptance of the project, an Ohio professional surveyor shall determine the minimum vertical clearances of all existing and new bridges within the project limits. At a minimum, measurements shall be taken along each fascia beam at the edge of shoulders, edge lines, lane lines, and crown of the roadway below. [for bridges over railroads, measurements shall be taken along each fascia beam at both rails of each track below.] The ODOT district 12 vertical clearance survey form shall be used, where applicable, to document the measurements. Where the ODOT district 12 vertical clearance survey form is not applicable, the measurements shall be documented on a contractor-developed form that closely resembles the ODOT district 12 vertical clearance survey form and accurately depicts the bridge and the lane and shoulder [and/or track] configuration of the roadway [and/or railroad] that passes below the bridge. The completed form shall bear the stamp or seal of the Ohio professional surveyor who has taken the measurements and shall be submitted to the project engineer prior to final acceptance of the project.

The ODOT district 12 vertical clearance survey form can be downloaded from the following ftp site:

<http://ftp.dot.state.oh.us/pub/contracts/attach/CUY-104380>

DESIGN AGENCY



DESIGNER

JDA

REVIEWER

EJK 07/31/23

PROJECT ID


113156

SHEET TOTAL

7 33


SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7-11	12-15	18	19	20	21	22	23				04/IMS/05							
																	ROADWAY	
450											450	209	60201	450	STA	LINEAR GRADING, AS PER PLAN	8	
																	EROSION CONTROL	
											1,000	832	30000	1,000	EACH	EROSION CONTROL		
																	DRAINAGE	
4											4	611	98631	4	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	9	
2											2	611	98634	2	EACH	CATCH BASIN RECONSTRUCTED TO GRADE		
2											2	611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE		
5,000											5,000	SPECIAL	61199820	5,000	LB	MISCELLANEOUS METAL	9	
																	PAVEMENT	
4,368											4,368	251	01021	4,368	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN A	9	
2,606											2,606	251	01021	2,606	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN B	9	
		209,696	50,897								260,593	254	01001	260,593	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 1.5"	9	
		17,824	4,324								22,148	407	20000	22,148	GAL	NON-TRACKING TACK COAT		
		5,242	570								5,812	442	00100	5,812	CY	ANTI-SEGREGATION EQUIPMENT		
			2,138								2,138	442	10001	2,138	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PWL, 2025, PG76-22M	10	
		8,762									8,762	442	10301	8,762	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PWL, 2025, PG76-22M	10	
276											276	617	10101	276	CY	COMPACTED AGGREGATE, AS PER PLAN	10	
12											12	618	40601	12	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN	10	
				45,888	71,341	14,389	13,985				145,603	850	10110	145,603	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)		
				4,184	6,777	244	1,080				12,285	850	10130	12,285	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)		
				1,423	1,371	6,776	2,667				12,237	850	20110	12,237	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)		
					183	1,140	91				1,414	850	20130	1,414	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)		
			14,119								14,119	872	10000	14,119	FT	VOID REDUCING ASPHALT MEMBRANE (VRAM)		
																	TRAFFIC CONTROL	
				85	125	75	69				354	620	00500	354	EACH	DELINEATOR, POST GROUND MOUNTED		
				372	619	197	154				1,342	621	00100	1,342	EACH	RPM		
1,007											1,007	621	54000	1,007	EACH	RAISED PAVEMENT MARKER REMOVED		
											197	646	10400	197	FT	STOP LINE		
											1,048	646	10510	1,048	FT	CROSSWALK LINE, 12"		
											91	646	10600	91	FT	TRANSVERSE/DIAGONAL LINE		
											50	646	20300	50	EACH	LANE ARROW		
				5.08	7.34	3.63	3.12				19.17	807	12010	19.17	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"		
				3.86	6.45	0.22					10.53	807	12110	10.53	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"		
				4,184	6,960	1,754	2,007				14,905	807	12310	14,905	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"		
				4,420	2,365						6,785	807	12410	6,785	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"		

General Summary

DESIGN AGENCY

 DESIGNER
 JDA
 REVIEWER
 EJK 07/31/23
 PROJECT ID
 113156
 SHEET TOTAL
 16 33

STATION TO STATION		LENGTH FT.	BEGIN WIDTH FT.	ENDING WIDTH FT.	AVERAGE WIDTH FT.	AREA SY	254	442	442	407	442	872	STATION TO STATION		LENGTH FT.	BEGIN WIDTH FT.	ENDING WIDTH FT.	AVERAGE WIDTH FT.	AREA SQ. YD.	254	442	442	407	442	872			
							PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 1.5"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PWL, 2025, PG76-22M	ANTI-SEGREGATION EQUIPMENT	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PWL, 2025, PG76-22M	VOID REDUCING ASPHALT MEMBRANE (VRAM)								PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 1.5"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PWL, 2025, PG76-22M	ANTI-SEGREGATION EQUIPMENT	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PWL, 2025, PG76-22M	VOID REDUCING ASPHALT MEMBRANE (VRAM)			
Ramp C-1													Ramp B-7															
10+24.46	10+88.11	63.65	130	44	87	615	615					64	3+05.51	7+40.10	434.59	29	26	27.25	1316	1316			7	112	55	435		
10+88.11	11+52.51	64.4	44	31	37.6	269	269					65																
11+52.51	11+97.65	45.14	31	36	33.35	167	167					46																
11+97.65	17+91.68	594.03	36	30	33	2178	2178					595																
Ramp C-4													Ramp B-8															
13+02.09	12+19.84	82.25	95	32	63.5	580	580					83	4+96.42	12+54.66	758.24	25	25	25	2106	2106			4	179	88	759		
12+19.84	8+99.87	319.97	32	32	32	1138	1138					320																
8+99.87	7+69.18	130.69	32	25	28.5	414	414					131																
7+69.18	4+93.58	275.6	25	28	26.25	804	804					276																
Ramp C-5													Slip Ramp B-9															
0+30.10	1+06.52	76.42	88	32	60	509	509					77																
1+06.52	1+35.28	28.76	32	38	34.9	112	112					29																
1+35.28	2+77.46	142.18	38	38	37.9	599	599					143																
2+77.46	7+64.75	487.29	38	35	36.5	1976	1976					488																
Ramp B-1													Bridge No. CUY-271-1315E															
711+83.05	715+26.16	343.11	25	25	25	953	953					344																
Ramp B-2													Slip Ramp B-10															
4+12.73	12+02.47	789.74	25.0	25.0	25	2194	2194					790	4+57.79	6+69.81	212.02	31	30	30.5	719	719			7	61	30	213		
													6+69.81	10+24.60	354.79	30.0	72.0	51	2010	2010			45	171	84	355		
													10+24.60	17+90.00	765.4	27.0	27.0	27	2296	2296			12	195	96	766		
													17+90.00	19+59.65	169.65	60.5	41.0	50.75	957	957			21	81	40	170		
Ramp B-3													Bridge No. CUY-271-1315W															
5+54.24	14+13.21	858.97	26.0	28.0	27	2577	2577					859	22+27.29	23+28.99	101.7	35.0	38.0	36.5	412	412			6	35	18	102		
													23+28.99	24+76.06	147.07	38.0	62.0	50	817	817			18	69	35	148		
													24+76.06	25+45.29	69.23	29.0	27.0	28	215	215			1	18	9	70		
													25+45.29	32+41.00	695.71	27.0	27.0	27	2087	2087			10	177	87	696		
Ramp B-4																												
3+50.54	11+50.50	799.96	30.0	30.0	30	2667	2667					800																
Ramp B-5																												
6+17.90	14+98.09	880.19	25.0	25.0	25	2445	2445					881																
Ramp B-6																												
3+42.15	10+87.12	744.97	30.0	28.0	29	2400	2400					745																
TOTALS, LEFT COLUMN							25,011		240	2,125	1,052	7,300		TOTALS, RIGHT COLUMN							25,886		330	2,199	1,086	6,819		
TOTALS, LEFT COLUMN							25,011		240	2,125	1,052	7,300		TOTALS, RIGHT COLUMN								25,011		240	2,125	1,052	7,300	
TOTALS, LEFT COLUMN							25,011		240	2,125	1,052	7,300		TOTALS CARRIED TO GENERAL SUMMARY							50,897		570	4,324	2,138	14,119		

Pavement Subsummary

DESIGN AGENCY

 DESIGNER
 JDA
 REVIEWER
 EJK 07/31/23
 PROJECT ID
 113156
 SHEET TOTAL
 19 33


PLAN SPLIT NO.	STATION TO STATION		LENGTH	807	807	807	807	807	646	646	646	646	646	646	850	850	850	850	621	621	621	620	620
				WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6", WHITE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6", YELLOW	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"	TRANSVERSE/DIAGONAL LINE	STOP LINE	LANE ARROW	CHEVRON MARKING	CROSSWALK LINE, 12"	WRONG WAY ARROW	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)	RPM (WHITE)	RPM (WHITE/RED)	RPM (YELLOW/RED)	DELINEATOR, POST GROUND MOUNTED, TYPE C	DELINEATOR, POST GROUND MOUNTED, TYPE D
			FT	FT	FT	FT	FT	FT	FT	EACH	FT	FT	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	
Ramp C-1																							
1	10+24.94	10+87.59	63	63			63		40	24				144	207	63					2	1	
1	10+87.59	12+23.63	136	136	136										272					2	1	1	
1	12+23.63	17+91.40	568	568	568	568									1704			8	8		2	2	
Ramp C-4																							
1	4+77.33	9+07.95	431	431	431										862						2	2	
1	9+07.95	10+95.76	188	188	188	188									564			3	3		1	1	
1	10+95.76	12+77.04	181	181	181		181								362	181				3	5	1	1
1	12+77.04	12+92.33	15							45				133								0	0
Ramp C-5																							
1	0+29.78	0+86.63	57	57	57										114						1	1	
1	0+86.63	4+97.58	411	411	411	411									1233			6	6		2	2	
1	4+97.58	7+69.28	272	272	272										544					4	1	1	
Ramp B-1																							
1	711+82.98	715+26.26	343	343	343										686						5	1	
1	715+26.26	716+16.54	90	90	90										180						2	1	
1	715+26.26	720+30.09	504	504	504	504			30	14			120			1,128	504			7	13	2	
Ramp B-2																							
1	1+74.49	4+12.73	238	238	238									32		508					3	1	
1	4+12.73	12+05.81	793	793	793										1586						10	2	
1	12+05.81	13+90.81	185	185	185	370									370						3	1	
1	13+90.81	15+52.81	162	162	162										324						3	1	
1	15+52.81	17+64.81	212	212	212										424						3	1	
Ramp B-3																							
1	3+41.11	5+54.68	214	214	214									100		528					3	1	
1	5+54.68	14+26.90	872	872	872										1744						11	3	
Ramp B-4																							
1	3+55.03	11+49.86	795	795	795										1590						10	2	
1	11+49.86	12+16.77	67	67	67											134					1	1	
1	12+16.77	15+79.28	363	363	363	363			30	12	62	133			859	363				5	10	1	
Ramp B-5																							
1	15+05.30	6+17.61	888	888	888											1,776					12	3	
1	6+17.61	3+34.67	283	283	283									32		598					4	1	
Ramp B-6																							
1	3+42.86	10+87.49	745	745	745										1490						10	2	
1	10+87.49	13+60.66	273	273	273											546					4	1	
1	13+60.66	16+33.32	273	273	273	273			32	10	59	153			699	273				4	7	1	
SUBTOTALS				9607	9544	1167	1754		40	161	42	121	847		14389	244	6776	1140	17	133	47	38	37
TOTALS CARRIED TO GENERAL SUMMARY				3.63 MI		0.22 MI	1754		40	161	42	121	847		14389	244	6776	1140	197		75		

Payment Marking Subsummary

DESIGN AGENCY	
DESIGNER	JDA
REVIEWER	EJK 07/31/23
PROJECT ID	113156
SHEET	22
TOTAL	33

PLAN SPLIT NO.	STATION TO STATION		LENGTH	807	807	807	807	807	646	646	646	646	646	646	850	850	850	850	621	621	621	620	620	
				WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6", WHITE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6", YELLOW	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"	TRANSVERSE/DIAGONAL LINE	STOP LINE	LANE ARROW	CHEVRON MARKING	CROSSWALK LINE, 12"	WRONG WAY ARROW	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)	RPM (WHITE)	RPM (WHITE/RED)	RPM (YELLOW/RED)	DELINEATOR, POST GROUND MOUNTED, TYPE C	DELINEATOR, POST GROUND MOUNTED, TYPE D	
			FT	FT	FT	FT	FT	FT	FT	EACH	FT	FT	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH		
Ramp B-7																								
1	3+05.50	7+39.86	434	434	434												868				6	2	2	
1	7+39.86	10+33.63	294	294	294										588						4	1	1	
1	10+33.63	12+71.42	238	238	238		238		51	36	8		147		623	238					3	6	1	1
Ramp B-8																								
1	1+08.01	1+99.03	91	91			91										145	91			3	1		
1	1+99.03	4+96.32	297	297	297												594				4	1	1	
1	4+96.32	12+56.04	760	760	760										1520						10	2	2	
Slimp Ramp B-9																								
1	7+59.79	12+44.36	485	485	485										970						7	2	2	
1	12+44.36	13+84.98	141	141	141		282					64			282	282					2	8	1	1
1	13+84.98	19+85.65	601	601	601										1202						8	2	2	
1	19+85.65	21+08.04	122	122	122		244								244	244					2	7	1	1
1	21+08.04	21+87.46	79	79	79										158						1	1	1	
1	21+87.46	24+49.68	262	262	262												524				4	1	1	
1	24+49.68	24+95.28	46	46	46										92						1	1	1	
1	24+95.28	26+53.08	158	158	158		316					88			316	316					2	8	1	1
1	26+53.08	32+92.50	639	639	639										1278						8	2	2	
1	32+92.50	33+69.53	77	77	77		154								154						1	4	1	1
1	33+69.53	41+29.21	760	760	760										1520						10	2	2	
Slimp Ramp B-10																								
1	32+44.67	24+56.12	789	789	789										1578						10	2	2	
1	24+56.12	23+47.66	108	108	108		216					61			216						2	6	1	1
1	23+47.66	22+32.43	115	115	115										230						2	1	1	
1	22+32.43	19+64.64	268	268	268												536				4	1	1	
1	19+64.64	18+98.87	66	66	66										132						1	1	1	
1	18+98.87	17+92.36	107	107	107		214								214						2	1	1	
1	17+92.36	10+28.32	764	764	764										1528						10	2	2	
1	10+28.32	9+02.24	126	126	126		252					57			252						2	1	1	
1	9+02.24	4+57.79	444	444	444										888						6	2	2	
SUBTOTALS				8271	8180		2007		51	36	8		201		13985	1080	2667	91		112	42	35	34	
TOTALS CARRIED TO GENERAL SUMMARY				3.12 MI			2007		51	36	8		201		13985	1080	2667	91		154		69		

Pavment Marking Subsummary

DESIGN AGENCY

 DESIGNER
JDA
 REVIEWER
EJK 07/31/23
 PROJECT ID
113156
 SHEET TOTAL
23 33