PAVEMENT

Alignment And Profile

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. The intent of the plans is to maintain the existing profile while smoothing out ruts and bumps.

Asphalt Concrete Surface Course Sealing Requirements

In addition to the gutter sealing requirements specified in SCD BP-3.1 and C&MS 401.15, after completion of the surface course, the Contractor shall use a certified 702.01 PG binder to seal the following locations:

- All castings including but not limited to monuments, manholes, water valves, catch basins, curb inlets.
- Butt joints and feather joints including bridge approaches.
- Forward joint for driveway asphalt and trailing joint when butting to existing asphalt drive.
- Perimeter of all pavement repairs or other asphalt inlays when pavement repairs/inlays are not overlaid with an asphalt concrete surface course.
- All cold longitudinal joints between paved shoulders and guardrail asphalt. The material used shall be a certified 702.01 PG binder. The width of the sealer shall be 2-3 inches.

Any additional costs associated with the work identified in this note shall be included in the appropriate asphalt concrete surface course item of work.

Longitudinal Joints (Flexible Pavement)

Longitudinal joints between a pavement lane and adjoining shoulder or speed change lane, and between a speed change lane and the adjoining shoulder shall be made the same day. All longitudinal joints shall be hot with the exception of one cold joint per roadway. Locate the cold joint along the centerline or a lane line. Longitudinal joint locations shall be as approved by the Engineer. Each ramp shall have a maximum of one longitudinal cold joint located approximately halfway across the ramp.

Item 441 – Asphalt Concrete Surface Course, Type 1, (449), As Per Plan, PG70-22M

(Location 2 - Lake County - SR 615)

The coarse virgin aggregate for this item shall consist of a blend of 60% min. air cooled blast furnace slag (ACBFS) or Trap Rock from Ontario with limestone comprising the remaining percentage.

Table 442.02-2 applies except No. 4 sieve requirements are 52 to 60 Total Percent Passing. For the No. 4 sieve, do not exceed 63 in production.

When ACBFS is used for a fraction of the coarse aggregate, provide a total asphalt binder content greater than or equal to 6.2%. If ACBFS makes up 100% of the coarse aggregate, apply the binder content requirements of CMS 442.

Item 442 – Asphalt Concrete Surface Course, 12.5mm, Type A (449), As Per Plan, PG76-22M

(Locations 1A & 1B - Lake County – IR-90)

The coarse virgin aggregate for this item shall be limited to a blend of air cooled blast furnace slag (ACBFS) or Trap Rock from Ontario and limestone.

The Contractor shall use a minimum 60% of ACBFS or Trap Rock from Ontario with limestone comprising the remaining percentage. At least 50% of the fine virgin aggregate for this item shall be limited to ACBFS or Trap Rock from Ontario.

Table 442.02-2 applies except No. 4 sieve requirements are 52 to 60 Total Percent Passing. For the No. 4 sieve, do not exceed 63 in production.

When ACBFS is used for a fraction of the coarse aggregate, provide a total asphalt binder content greater than or equal to 6.2 percent. If ACBFS makes up 100% of the coarse aggregate, apply the binder content requirements of CMS 442.

Item 441 – Asphalt Concrete Surface Course, Type 1, (448), As Per Plan, PG70-22M

(Location 3 - Geauga County - SR 168)

The coarse virgin aggregate for this item shall consist of a blend of 60% min. air cooled blast furnace slag (ACBFS) or Trap Rock from Ontario with limestone comprising the remaining percentage.

Table 442.02-2 applies except No. 4 sieve requirements are 52 to 60 Total Percent Passing. For the No. 4 sieve, do not exceed 63 in production.

When ACBFS is used for a fraction of the coarse aggregate, provide a total asphalt binder content greater than or equal to 6.2%. If ACBFS makes up 100% of the coarse aggregate, apply the binder content requirements of CMS 442.

Item 209 – Linear Grading, As Per Plan

This item of work shall consist of grading along the outside edge of the paved shoulder to back-up the safety edge, eliminate high spots, fill-in low areas and provide positive sheet flow off the pavement and shoulder into roadside ditches or drainage structures. This item is not intended to be used to excavate a uniform depth to place Item 617 – Compacted Aggregate, As Per Plan.

Any excess debris collected shall be removed and disposed of as specified in Section 105.16 & 105.17 of the Construction and Material Specifications. Item 617 – Compacted Aggregate, As Per Plan has been provided to be used As Directed by the Engineer, to fill in any remaining low areas after Item 209 – Linear Grading, As Per Plan is completed.

Payment for the above work shall be made at the unit bid price for Item 209 - Linear Grading, As Per Plan and shall include all labor, tools, equipment and materials necessary to perform this item of work.

The estimated quantities in the Sub-Summaries have been carried to the General Summary for use As Directed By The Engineer.

<u>Item 617 – Compacted Aggregate, As Per Plan</u>

This item shall be used along the shoulders. Material shall be limited to reclaimed asphalt concrete pavement.

The actual depth used will vary depending upon existing conditions. For estimating purposes,

At Location 2 (SR-615) - an average depth of 3 inches (3.0") at 1/2 foot width will be used per side of uncurbed roadway)

At Location 3 (SR-168) - an average depth of 1-1/2 inches (1.5") at 1/2 foot width will be used per side of uncurbed roadway)

Water, if needed, shall be applied as per 617.05 and included for payment under Item 617 – Compacted Aggregate, As Per Plan.

This item shall be used, As Directed by the Engineer, to fill any remaining low areas after Item 209 - Linear Grading, As Per Plan is completed.

The estimated quantities in the sub-summaries have been carried to the General Summary.

DESIGN AGENCY



JAG REVIEWER DAB 12/18/23 PROJECT ID 114483

P.06 44

DESIGNER

SHEET NUM. GRAND PART. ITEM SEE SHEET UNIT **DESCRIPTION** 01/IMS/05 02/S>2/05 03/STR/05 EXT TOTAL 22 35 21 ROADWAY 115.9 60201 128.04 LINEAR GRADING, AS PER PLAN 115.9 MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN 39501 623 39601 MONUMENT ASSEMBLY RECONSTRUCTED TO GRADE, AS PER PLAN **EROSION CONTROL EROSION CONTROL** 30000 1,000 DRAINAGE 98631 CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN 611 5 611 98634 EACH CATCH BASIN RECONSTRUCTED TO GRADE INLET ADJUSTED TO GRADE, AS PER PLAN 99151 99154 INLET RECONSTRUCTED TO GRADE 611 1,000 500 MISCELLANEOUS METAL 1,000 61199820 **PAVEMENT** 15 15 203 10000 15 CY **EXCAVATION** SUMMARY PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN 25 251 01001 150 750 252 01001 750 FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT, AS PER PLAN, "A" 75 75 252 75 01001 FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT, AS PER PLAN, "B" 150 FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT, AS PER PLAN, "C" 150 01001 110 110 253 02001 110 PAVEMENT REPAIR, AS PER PLAN 21 GENERAL 6,441 6,441 01000 6,441 PAVEMENT PLANING, ASPHALT CONCRETE, (1.5") 13,072 PAVEMENT PLANING, ASPHALT CONCRETE, (2.5") 13,072 254 01000 13,072 SY 3,341 PAVEMENT PLANING, ASPHALT CONCRETE, (3.25") 3,341 3,341 01000 5,646 5,646 5,646 01010 PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, (1.5") AGGREGATE BASE 15 15 304 15 CY 20000 452 452 TACK COAT, 702.13 13900 452 1,176 1,176 500 580 2,256 GAL NON-TRACKING TACK COAT 500 20000 268 268 50101 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M, (1.5") ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN, PG70-22M, (1.5") 70101 441 139 139 139 162 162 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (1.75") 441 70300 162 235 22101 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG76-22M, (1.5") 235 442 235 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG76-22M, (2.5") 908 22101 442 908 10101 28 34 COMPACTED AGGREGATE, AS PER PLAN 28 LONGITUDINAL JOINT ADHESIVE 367 10000 **WATER WORK** 10801 8 VALVE BOX ADJUSTED TO GRADE, AS PER PLAN TRAFFIC CONTROL 47 764 00100 811 EACH RAISED PAVEMENT MARKER REMOVED 573 54000 20 573 593 621 0.88 00100 3.08 2.2 0.88 2.2 EDGE LINE, 4", TYPE 1 0.91 0.91 EDGE LINE, 6", TYPE 1 MILE 0.91 00104 11.89 LANE LINE, 6", TYPE 1 11.89 00204 11.89 0.32 CENTER LINE, TYPE 1 0.32 0.32 00300 MILE DESIGN AGENCY 450 642 450 CHANNELIZING LINE, 8", TYPE 1 450 00400 84 00404 84 CHANNELIZING LINE, 12", TYPE 1 STOP LINE, TYPE 1 39 642 00500 39 202 128 00620 128 CROSSWALK LINE, 12", TYPE 1 128 00700 TRANSVERSE/DIAGONAL LINE, TYPE 1 74 74 74 6 642 01300 6 EACH LANE ARROW, TYPE 1 12-PPM-F DESIGNER JAG WORD ON PAVEMENT, 72", TYPE 1 3 3 01400 REVIEWER 217 217 01500 217 DOTTED LINE, 4", TYPE 1 DAB 12/18/23 01650 BIKE LANE ARROW, TYPE 1 ROJECT ID 16 50010 16 35 EACH PAVEMENT MARKING, MISC.:BIKE LANE WORD ON PAVEMENT, 44" 114483 P.13 44 LS LS SPECIAL 69098400 LS INVENTORY EXISTING PAVEMENT MARKINGS

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REF. NO.	SHEET NO.	PLAN SPLIT NO.	PAVEMENT	LENGTH	BEGIN WIDTH	ENDING WIDTH	AVERAGE WIDTH	AREA		AVEMENT PLANING, ASPHA CONCRETE, (3.25")			NON-TRACKING TACK COAT	ASPHALT CONCRETE JTERMEDIATE COURSE, TYPE (449), (1.75")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN, PG70-22M, (1.5")		ONGITUDINAL JOINT ADHESI	INEAR GRADING, AS PER PLA	COMPACTED AGGREGATE, A PER PLAN	
			SR-615 (MUNSON RD.) STATION STATION	FT.	FT.	FT.	FT.	SQ. YD.		SY			GAL	CY	СУ		LB	STA	СҮ	
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		2	15+00.00 16+55.00 16+55.00 20+00.00	155 345	19 19	19 19	19 19	327 728		327 728			49 109	16 35	14 30		39 87	155 345	1	
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			PLAN SPLIT #2 TOTAL							3341			500	162	139		367	12.14	6	615
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REF. NO.	SHEET NO.	PLAN SPLIT NO.	TRAFFIC CONTROL	LENGTH		CENTER LINE, TYPE 1	HANNELIZING LINE, 8", TYPE 1	STOP LINE, TYPE 1	CROSSWALK LINE, 12", TYPE 1	LANE ARROW, TYPE 1	ORD ON PAVEMENT, 72", TYP 1	DOTTED LINE, 4", TYPE 1	EDGE LINE, 4", TYPE 1	RANSVERSE/DIAGONAL LINE, TYPE 1	BIKE LANE ARROW, TYPE 1	PAVEMENT MARKING, MISC.:BIKE LANE WORD ON PAVEMENT, 44"		RPM		LOCATION 2 - S TRAFFIC CONT
			SR-615 (MUNSON RD.) STATION STATION	FT.		MILE	FT	FT	FT	EACH	≥ EACH	FT	MILE	FT	EACH	EACH		EACH		\
			BEGIN - CITY OF MENTOR ON THE LAKE																	
		2	12+53.00 15+00.00	247		337	450	39	120	6	3	57	190	28	2	4		-		
		2	15+00.00 20+00.00 20+00.00 25+00.00	500 500		640 500			128			160	1840 1786	46	3	6		47		
		2	25+00.00 27+14.00 END - CITY OF MENTOR ON THE LAKE	214		214							856		1	2				
			SUBTOTALS	ļ		1691	450	39	128	6	3	217	4672	74	8	16		47		
			TOTALS CARRIED TO GENERAL SUMMARY			0.32 MI	450	39	128	6	3	217	0.88 MI	74	8	16		47		
			PLAN SPLIT #2 TOTAL			0.32 MI	450	39	128	6	3	217	0.88 MI	74	8	16		47		
						614	614	614	614	614	614	614	614		614	614	614	614		1
REF. NO.	SHEET NO.	PLAN SPLIT NO.	MAINTENANCE OF TRAFFIC	LENGTH		RK ZONE CENTER LINE, CLASS I, 642 PAINT	RK ZONE CENTER LINE, CLASS III, 642 PAINT	VORK ZONE CHANNELIZING INE, CLASS I, 8", 642 PAINT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	ORK ZONE STOP LINE, CLASS I, 642 PAINT	ORK ZONE STOP LINE, CLASS III, 642 PAINT	ORK ZONE ARROW, CLASS I, 642 PAINT	ORK ZONE ARROW, CLASS III, 642 PAINT		WORK ZONE DOTTED LINE, CLASS I, 4", 642 PAINT	WORK ZONE DOTTED LINE, CLASS III, 4", 642 PAINT	ORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	ORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT		DESIGN AGENCY
			SR-615 (MUNSON RD.) - CITY OF MENTOR ON THE LAKE			8	S	> -) N	Š	S	S			-	X	S		
			STATION STATION	FT.		MILE	MILE	FI	FT	FT	FT	EACH	EACH		FT	FT	MILE	MILE		
		2	12+53.00 15+00.00 15+00.00 20+00.00	247 500		337 640	337 640	450	450	39	39	6	6		57 160	57 160	190 1840	190 1840		
		2	20+00.00 25+00.00	500		500	500								100	100	1786	1786		DESIGNER
		2	25+00.00 27+14.00	214		214	214										856	856		JAG
			SUBTOTALS			1691	1691	450	450	39	39	6	6		217	217	4672	4672		REVIEWER DAB 12/18 PROJECT ID
			TOTALS CARRIED TO GENERAL SUMMARY			0.32 MI	0.32 MI	450	450	39	39	6	6		217	217	0.88 MI	0.88 MI		114483 SHEET TOTA
			PLAN SPLIT #2 TOTAL			0.32 MI	0.32 MI	450	450	39	39	б	<u> </u>		217	217	0.88 MI	0.88 MI		P.37 44

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REF. NO.	SHEET NO.	PLAN SPLIT NO.	PAVEMENT SR-168 (TAVERN RD.)			LENGTH	BEGIN WIDTH	ENDING WIDTH	AVERAGE WIDTH	AREA	PAVEMENT PLANING, ASPHALT CONCRETE, (1.5")		NON-TRACKING TACK COAT		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M, (1.5")	LINEAR GRADING, AS PER PLAN	COMPACTED AGGREGATE, AS PER PLAN	EDGE LINE, 4", TYPE 1	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT					
			STATION	STATION		FT.	FT.	FT.	FT.	SQ. YD.	SY		GAL		СҮ	STA	СҮ	MILE	MILE					
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		3	1170+20.40	1203+41.36	SB	3320.96	5	5	5	1845	1845		166		77	3321	8	3321.0	3321.0					
		3	1170+07.50	1203+84.40	NB	3376.9	5	5	5	1876	1876		169		78	3376.9	8	3376.9	3376.9					
		3	1205+74.26	1229+53.00	SB	2378.74	5	5	5	1322	1322		119		55	2378.7	6	2378.7	2378.7					
		3	1205+39.28	1230+56.57	NB	2517.29	5	5	5	1398	1398		126		58	2517.3	6	2517.3	2517.3					
			END																					
				SUBTOTALS				•			6441		580		268	11593.9	28	11593.89	11593.89					
				TOTALS CARRIED TO GENERA	L SUMM/	4RY					6441		580		268	115.9 STA	28	2.2 MI	2.2 MI					
				PLAN SPLIT #3 TOTAL							6441		580		268	115.9	28	2.2 MI	2.2 MI					

Addendum - R1

D12-PPM-FY2024

LOCATION 3 - S.R.-168
PAVEMENT / TRAFFIC CONTROL SUB-SUMMARY

DESIGN AGENCY



DESIGNER
JAG

REVIEWER
DAB 12/18/23

PROJECT ID
114483

SHEET TOTAL
P.42 44