

HOT-MIX ASPHALT MAINLINE CALCULATIONS

STATION	TO	STATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ YD)	HMA SC THICKNESS (INCHES)	HMA BC THICKNESS (INCHES)	40600100 BIT MATLS PR CT (GAL)	40600300 AGG PR CT (TONS)	40600837 POLY LVL BNDR MM N70 (TONS)	40603540 POLY HMA SC MIX "D" N70 (TONS)	40600625 LVL BNDR MM N50 (TONS)	40603310 HMA SC MIX "C" N50 (TONS)
IL 1 & US 136													
62+23.58		93+00.00	3076.4	60	20509.5	1.5	0.75	2050.9	41.0	861.4	1722.8		
93+00.00		95+56.00	256.0	69	1962.7	1.5	0.75	196.3	3.9	82.4	164.9		
95+56.00		127+00.00	3144.0	60	20960.0	1.5	0.75	2096.0	41.9	880.3	1760.6		
127+00.00		130+00.00	300.0	54	1800.0	1.5	0.75	180.0	3.6	75.6	151.2		
130+00.00		136+83.00	683.0	48	3642.7	1.5	0.75	364.3	7.3	153.0	306.0		
136+83.00		138+30.00	147.0	54	882.0	1.5	0.75	88.2	1.8	37.0	74.1		
138+30.00		141+32.00	302.0	60	2013.3	1.5	0.75	201.3	4.0	84.6	169.1		
141+32.00		147+53.00	621.0	48	3312.0	1.5	0.75	331.2	6.6	139.1	278.2		
147+53.00		148+65.00	112.0	57.5	715.6	1.5	0.75	71.6	1.4	30.1	60.1		
148+65.00		150+32.00	167.0	59.5	1104.1	1.5	0.75	110.4	2.2	46.4	92.7		
150+32.00		151+46.04	114.0	48	608.2	1.5	0.75	60.8	1.2	25.5	51.1		
STA. EQ.		151+46.04	1516.8	48	8089.5	1.5	0.75	808.9	16.2			339.8	679.5
174+83.87 BK=		174+83.87	821.0	36	3284.2	1.5	0.75	328.4	6.6			137.9	275.9
175+02.84 AH		187+42.50	1239.7	26	3581.2	1.5	0.75	358.1	7.2			150.4	300.8
		187+42.50	880.3	24	2347.5	1.5	0.75	234.8	4.7			98.6	197.2
SN 092-0205		201+04.68	2477.3	24	6606.2	1.5	0.75	660.6	13.2			277.5	554.9
		225+82.00	15147.0	22	37026.0	1.5	0.75	3702.6	74.1			1555.1	3110.2
		377+29.00	1719.0	22.6	4316.6	1.5	0.75	431.7	8.6			181.3	362.6
		394+48.00	10252.0	22	25060.4	1.5	0.75	2506.0	50.1			1052.5	2105.1
		497+00.00	1823.0	29	5874.1	1.5	0.75	587.4	11.7			246.7	493.4
		515+23.00	479.5	22	1172.1	1.5	0.75	117.2	2.3			49.2	98.5
SN 092-0189		520+67.50	10032.9	22	24524.9	1.5	0.75	2452.5	49.0			1030.0	2060.1
SN 092-0034		624+81.00	1432.4	22	586.0	1.5	0.75	143.2	2.9			60.2	120.3
		630+67.00	13858.0	22	33875.1	1.5	0.75	3387.5	67.8			1422.8	2845.5
SUB-TOTAL=								21470.0	429.4	2415.4	4830.8	6602.0	13204.0
TOTAL =								21848.3	437.0	2415.4	4830.8	6760.9	13521.8
USE =								21849.0	437.0	2416.0	4831.0	6761.0	13522.0

NOTE: AN ADDITIONAL 7 TONS OF POLYMER LEVELING BINDER MM N70 WILL BE REQUIRED FOR THE SUPERELEVATION CORRECTION AT THE ABANDONED RAILROAD REMOVAL.

HOT-MIX ASPHALT SHOULDER CALCULATIONS

STATION	TO	STATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ YD)	HMA SHOULDER THICKNESS (INCHES)	40600100 BIT MATLS PR CT (GAL)	40600300 AGG PR CT (TONS)	48203100 HMA SHOULDERS (TONS)	
IL 1 & US 136										
STA. EQ.		174+83.87	4600.7	16	8179.0	1.5	409.0	8.2	687.0	
174+83.87 BK=		174+83.87	4600.7	16	8179.0	1.5	409.0	8.2	687.0	
175+02.84 AH		187+42.50	1239.7	10	1377.4	1.5	68.9	1.4	115.7	
		187+42.50	880.3	16	1565.0	1.5	78.3	1.6	131.5	
SN 092-0205		201+04.68	2477.3	16	4404.1	1.5	220.2	4.4	369.9	
		225+82.00	29420.5	6	19613.7	1.5	980.7	19.6	1647.5	
SN 092-0189		520+67.50	10032.9	6	6688.6	1.5	334.4	6.7	561.8	
SN 092-0034		624+81.00	14444.0	6	9629.3	1.5	481.5	9.6	808.9	
SUB-TOTAL=							2572.9	51.5	4322.4	
TOTAL =								2612.0	52.2	4388.1
USE =								2612.0	53.0	4389.0
IL 119 & US 136										
614+26.00		626+00.00	1174.0	6	782.7	1.5	39.1	0.8	65.7	
TOTAL =							2612.0	52.2	4388.1	
USE =							2612.0	53.0	4389.0	