

Pavement Legend Number (see Typical Sections) =>

CALCULATION ROW										8	13	14	7	5	6	2a	2b	2b	1	3	4	11	15	17 / 19	
										204	209	209	254	301	304	407			441		441	441	609	617	875
										10000	60501	72050	01000	46000	20000	20000			50101		50300	50301	26000	10101	10000
										SUBGRADE COMPACTION	LINEAR GRADING, AS PER PLAN	PREPARE SUBGRADE FOR SHOULDER PAVING	PAVEMENT PLANING, ASPHALT CONCRETE (0.5" TYP.)	6" ASPHALT CONCRETE BASE, PG64-22	6" AGGREGATE BASE	NON-TRACKING TACK COAT (MILLED ASPHALT SURFACE) (AVE. RATE = 0.085 GAL/SY)	NON-TRACKING TACK COAT (NEW ASPHALT) (AVE. RATE = 0.055 GAL/SY)	NON-TRACKING TACK COAT (NEW ASPHALT) (AVE. RATE = 0.055 GAL/SY)	1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, AS PER PLAN	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, AS PER PLAN (FOR SAFETY EDGE)	1.00" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22, AS PER PLAN (VARIABLE DEPTH, 4" MAX)	CURB, TYPE 6	COMPACTED AGGREGATE, AS PER PLAN	LONGITUDINAL JOINT ADHESIVE
TO	FROM		FT	FT	FT	SQ FT	SQ FT	SQ FT	SQ YD	MILE	MILE	SQ YD		CU YD	GALLON			CU YD		CU YD	CU YD	FT	CU YD	LB	
									$\frac{[W + (\#)] \times L}{9}$	$\frac{L}{5280}$	$\frac{L}{5280}$	$\frac{AS}{9}$	$\frac{[6 \times (AW + (\# \times L))]}{(12 \times 27)}$	$\frac{[6 \times (AW + (\# \times L))]}{(12 \times 27)}$	$\frac{[0.085 \times AS]}{9}$	$\frac{[0.055 \times (AP+AW)]}{9}$	(See Other Calcs)	$\frac{[1.50 \times AP]}{(12 \times 27)}$	$\frac{[(2.5 \times 5) \times L]}{(2 \times 12 \times 12 \times 27)}$	$\frac{[1.00 \times AW]}{(12 \times 27)}$	(See Other Calcs)	L	$\frac{[(1 \times 24) \times L]}{(12 \times 12 \times 27)}$	$\frac{L \times \#}{4}$	
<i>All calculations are based on centerline of construction.</i>									See Notes at Bottom of Calc Sheet =>																
									(2)	(9)	(9)	(3)	(4)	(5)	(6)	(7)	(8)		(10)		(8)		(9) (11)		
26	192+50.00	193+35.00	RIGHT	85.00	16.70	4.24	1419.50	360.40	1059.10	54.21			117.68	7.20	7.99	10.00	10.88		6.57	0.14	1.11				21
27	193+35.00	195+25.00	RIGHT	190.00	19.00	6.55	3610.00	1244.50	2365.50	169.94			262.83	24.22	25.98	22.34	29.67		16.71	0.31	3.84				48

Pavement Legend Number (see Typical Sections) =>

CALCULATION ROW	STATION	SIDE	LENGTH L	AVERAGE PAVEMENT WIDTH P	AVERAGE WIDENING WIDTH W	PAVEMENT SURFACE AREA AP = L x P	PAVEMENT WIDENING AREA AW = L x W	SALVAGED PAVEMENT AREA AS = AP - AW	8	13	14	7	5	6	2a	2b	2b	1	3	4	11	15	17 / 19				
									204	209	209	254	301	304	407			441		441	441	609	617	875			
									10000	60501	72050	01000	46000	20000	20000			50101		50300	50301	26000	10101	10000			
	TO	FROM	FT	FT	FT	SQ FT	SQ FT	SQ FT	SQ YD	MILE	MILE	SQ YD		CU YD	GALLON			CU YD		CU YD	CU YD	FT	CU YD	LB			
									$\frac{[W + (\#)] \times L}{9}$	$\frac{L}{5280}$	$\frac{L}{5280}$	$\frac{AS}{9}$	$\frac{[6 \times (AW + (\# \times L))]}{(12 \times 27)}$	$\frac{[6 \times (AW + (\# \times L))]}{(12 \times 27)}$	$\frac{[0.085 \times AS]}{9}$	$\frac{[0.055 \times (AP+AW)]}{9}$	(See Other Calcs)	$\frac{[1.50 \times AP]}{(12 \times 27)}$	$\frac{[(2.5 \times 5) \times L]}{(2 \times 12 \times 12 \times 27)}$	$\frac{[1.00 \times AW]}{(12 \times 27)}$	(See Other Calcs)	L	$\frac{[(1 \times 24) \times L]}{(12 \times 12 \times 27)}$	$\frac{L \times \#}{4}$			
<i>All calculations are based on centerline of construction.</i>									See Notes at Bottom of Calc Sheet =>	(2)	(9)	(9)	(3)	(4)	(5)	(6)	(7)	(8)	(10)	(8)		(9) (11)					
47	239+79.26	240+72.92	RIGHT	(See SR 608 & Burton-Windsor Intersection (East Side), below)																							
									$\# = (18 / 12)$				$\# = 0$	$\# = [(6) / 12]$													
48	240+72.92	249+19.44	RIGHT	846.52	19.00	9.50	16083.88	8041.94	8041.94	1034.64			893.55	148.92	156.76	75.95	147.44									212	
49	249+19.44	249+84.44	RIGHT	65.00	19.00	9.50	1235.00	617.50	617.50	79.44			68.61	11.44	12.04	5.83	11.32									16	
50	249+84.44	250+62.00	RIGHT	77.56	19.00	9.50	1473.64	736.82	736.82	94.80			81.87	13.64	14.36	6.96	13.51									19	
									$\# = (18 / 12)$				$\# = (4 / 12)$	$\# = (10 / 12)$													
51	250+62.00	252+72.55	RIGHT	210.55	19.00	9.50	4000.45	2000.23	2000.22	257.34			222.25	38.34	40.29	18.89	36.67									53	
52	252+72.55	253+37.55	RIGHT	65.00	19.00	9.50	1235.00	617.50	617.50	79.44			68.61	11.84	12.44	5.83	11.32									16	
53	253+37.55	265+00.00	RIGHT	1162.45	19.00	9.50	22086.55	11043.28	11043.27	1420.77			1227.03	211.68	222.44	104.30	202.46									291	
54	265+00.00	266+25.00	RIGHT	125.00	17.10	7.60	2137.50	950.00	1187.50	126.39			131.94	18.36	19.52	11.22	18.87									31	
55	266+25.00	266+50.00	RIGHT	25.00	14.85	5.35	371.25	133.75	237.50	19.03			26.39	2.63	2.86	2.24	3.09									6	
SR 608 - INTERSECTIONS									$\frac{AW + (\#\#)}{9}$				$\frac{[6 \times (AW + (\#\#\#))]}{(12 \times 27)}$	$\frac{[6 \times (AW + (\#\#\#\#))]}{(12 \times 27)}$					$\frac{[(2.5 \times 5) \times LS]}{(2 \times 12 \times 12 \times 27)}$								
SR 608 & Nauvoo Road Intersection (East Side)																											
56	199+52.39	200+23.58	LC (CADD) = Curb Length	59.49	LS (CADD) = Shoulder Length	7.42	(CADD)	(CADD)	2248.71	111.68			249.86	16.80	17.42	21.24	24.80									59.49	
57	(Southeast Quadrant)																										
58	200+23.58	200+58.96	LC (CADD) = Curb Length	0.00	LS (CADD) = Shoulder Length	83.81	(CADD)	(CADD)	1166.89	65.83			129.65	9.16	9.94	11.02	12.84										
59	(Northeast Quadrant)																										
SR 608 & Burton-Windsor Road Intersection (West Side)																											
60	239+49.70	240+25.31	LC (CADD) = Curb Length	84.65	LS (CADD) = Shoulder Length	0.00	(CADD)	(CADD)	2221.54	70.37			246.84	9.38	10.16	20.98	19.77									84.65	
61	240+25.31	240+73.28	LC (CADD) = Curb Length	0.00	LS (CADD) = Shoulder Length	77.72	(CADD)	(CADD)	1740.19	12.95	0.000	0.015	193.35	0.48	1.20	16.44	10.63										
62	239+79.26	240+23.88	LC (CADD) = Curb Length	32.63	LS (CADD) = Shoulder Length	10.62	(CADD)	(CADD)	1402.40	52.89			155.82	7.68	8.08	13.24	13.59									32.63	
63	240+23.88	240+72.92	LC (CADD) = Curb Length	13.56	LS (CADD) = Shoulder Length	27.36	(CADD)	(CADD)	1164.04	44.53			129.34	6.45	6.83	10.99	11.26									13.56	

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									204	209	209	254	301	304	407			441		441	441	609	617	875				
									10000	60501	72050	01000	46000	20000	20000			50101		50300	50301	26000	10101	10000				
									SUBGRADE COMPACTION	LINEAR GRADING, AS PER PLAN	PREPARE SUBGRADE FOR SHOULDER PAVING	PAVEMENT PLANING, ASPHALT CONCRETE (0.5" TYP.)	6" ASPHALT CONCRETE BASE, PG64-22	6" AGGREGATE BASE	NON-TRACKING TACK COAT (MILLED ASPHALT SURFACE) (AVE. RATE = 0.085 GAL/SY)	NON-TRACKING TACK COAT (NEW ASPHALT) (AVE. RATE = 0.055 GAL/SY)	NON-TRACKING TACK COAT (NEW ASPHALT) (AVE. RATE = 0.055 GAL/SY)	1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, AS PER PLAN	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, AS PER PLAN (FOR SAFETY EDGE)	1.00" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22, AS PER PLAN (VARIABLE DEPTH, 4" MAX)	CURB, TYPE 6	COMPACTED AGGREGATE, AS PER PLAN	LONGITUDINAL JOINT ADHESIVE				
TO	FROM	FT	FT	FT	SQ FT	SQ FT	SQ FT	SQ YD	MILE	MILE	SQ YD		CU YD	GALLON			CU YD	CU YD	CU YD	FT	CU YD	LB						
								$\frac{[W + (\#)] \times L}{9}$	$\frac{L}{5280}$	$\frac{L}{5280}$	$\frac{AS}{9}$	$\frac{[6 \times (AW + (\# \times L))]}{(12 \times 27)}$	$\frac{[6 \times (AW + (\# \times L))]}{(12 \times 27)}$	$\frac{[0.085 \times AS]}{9}$	$\frac{[0.055 \times (AP+AW)]}{9}$	(See Other Calcs)	$\frac{[1.50 \times AP]}{(12 \times 27)}$	$\frac{[(2.5 \times 5) \times L]}{(2 \times 12 \times 12 \times 27)}$	$\frac{[1.00 \times AW]}{(12 \times 27)}$	(See Other Calcs)	L	$\frac{[(1 \times 24) \times L]}{(12 \times 12 \times 27)}$	$\frac{L \times \#}{4}$					
All calculations are based on centerline of construction.									See Notes at Bottom of Calc Sheet =>																			
SR 608 - CURB TAPERS									$\frac{AW}{9}$				$\frac{[6 \times (AW)]}{(12 \times 27)}$	$\frac{[6 \times (AW)]}{(12 \times 27)}$														
						(CADD)	(CADD)																					
64	195+25.00		RIGHT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
65	201+60.00		RIGHT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
66	204+10.00		RIGHT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
67	208+88.00		RIGHT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
68	211+40.00		LEFT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
69	214+60.00		LEFT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
70	216+62.00		RIGHT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
71	221+65.00		RIGHT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
72	225+60.00		RIGHT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
73	238+38.00		LEFT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
74	250+62.00		RIGHT			18.00	18.00	0.00	2.00				0.33	0.33	0.00	0.22		0.08		0.06								
BURTON-WINDSOR CURB TAPERS																												
75	9+30.74		RIGHT			6.36	6.36	0.00	0.71				0.12	0.12	0.00	0.08		0.03		0.02								
Notes:									(1) Full depth sawcut and removal of existing pavement is to be included in the cost for Item 203 Excavation, as per CMS 203.04E (2) As per CMS 204.03: include 18" beyond the edge of surface pavement. (3) Pavement planing quantities for contract payment comprise of the pavement surface between the saw cut lines. (4) For non-curbed section, include for 4" step. (5) a. For non-curbed section, include for 10" step. (5) b. For curbed section, account for aggregate base beneath the proposed curb (6" width). (6) For planed pavement surface only. (7) One layer for areas of resurfaced pavement. Two layers for areas of new pavement or for pavement widening. (8) Variable depth "Leveling Course" quantities and associated tack coat are calculated on other work sheets and carried here to these calcs. (9) Applies to safety edge construction. Applies only to resurfacing shoulders. Not applicable to curb sections. (10) Estimated dimensions of wedge for safety edge: 2.5" high x 5" wide. Applies to widened pavement and resurfacing shoulders. Not applicable to curb sections. (11) Estimated dimensions: 0.5" depth x 12" width. See General Notes. (CADD) Indicates length or area as measured graphically from the computer design drawing. (##) For subgrade compaction in the intersections, add $[(18'/12) \times (\text{length of curb})]$ and $[(18'/12) \times (\text{length of shoulder edge})]$. (###) For asphalt concrete base in the intersections, add $[(0'/12) \times (\text{length of curb})]$ and $[(4'/12) \times (\text{length of shoulder edge})]$. (####) For aggregate base in the intersections, add $[(6'/12) \times (\text{length of curb})]$ and $[(10'/12) \times (\text{length of shoulder edge})]$.																			
SUBTOTALS									11088.12	0.489	0.504	21302.80	1554.97	1680.56	1810.73	2165.92	1147.00	1264.23	16.74	251.10	611.00	4426.76	15.905	4793.97				
TOTALS CARRIED TO GENERAL SUMMARY									11088	0.5	0.5	21303	1555	1681	5124	1281	251	611	4427	16	4794							