

FRA-70-14.36
PID: 105588
PAVEMENT CALCULATION



STATION RANGE				SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204	206	206
									SUBGRADE COMPACTION	CEMENT	CURING COAT
					FT	FT	SY	SY	SY	TON	SY
I-71 SB PAVEMENT PLANING											
209+44.97	TO	210+00.00	RT	55.03	24.00	147					
210+00.00	TO	210+50.00	RT	50.00	24.00	133					
210+50.00	TO	211+50.00	RT	100.00	24.00	267					
I-71 SB RAMP B3 PAVEMENT REPAIR/PLANING											
695+53.47	TO	695+67.15	LT/RT	13.68	25.60		40				
			LT	13.68	0.40		1		0.14		4
695+67.15	TO	695+84.64	LT/RT	17.49	24.70		48				
			LT	17.49	1.30		2		0.20		6
695+84.64	TO	696+15.51	LT/RT	30.87	23.40		82				
			LT	30.87	2.60		9		0.51		15
696+15.51	TO	697+33.97	LT/RT	118.46	18.15		239				
			LT	118.46	6.05		76		3.38		100
697+33.97	TO	697+89.97	LT/RT	56.00	22.00		138		5.16		153
I-71 SB											
211+50.00	TO	212+06.18	RT	56.18	29.00		181		6.11		181
212+06.18	TO	216+60.60	LT/RT	454.42	51.00		2,575		90.89		2,693
216+60.60	TO	216+74.28	LT/RT	13.68	51.00		78		2.77		82
216+74.28	TO	221+10.00	LT/RT	435.72	51.00		2,469		85.72		2,177
221+10.00	TO	222+33.52	LT/RT	123.52	51.00		700	535			
222+33.52	TO	223+47.70	LT/RT	114.18	52.20		662	510			
223+47.70	TO	226+30.54	LT/RT	282.84	59.60		1,863	1,496			
226+30.54	TO	227+92.43	LT/RT	161.89	67.50		1,215	1,007			
227+92.43	TO	228+69.77	LT/RT	77.34	69.95		601	550			
228+69.77	TO	230+54.84	LT/RT	185.07	50.00		1,000	905			
230+54.84	TO	230+84.84	LT	30.00	13.80		46	46			
I-71 SB PAVMT. REPAIR CONC BARRIER											
209+44.97	TO	211+50.00	RT	205.03	5.00	114			3.48		103
I-71 SB PAVMT. REPAIR CONC BARRIER											
695+29.60	TO	703+48.40	LT	818.80	15.70	1,428			46.68		1,383
703+48.40	TO	706+94.62	LT	346.22	15.70	604			19.74		585
706+94.62	TO	712+74.50	LT	579.88	4.88	314			10.60		314
I-71 RAMP C3											
3004+36.43	TO	3015+36.57	LT	1,100.14	4.00	489		652			
3004+38.88	TO	3017+51.90	LT	1,313.02	16.00	2,334		2,334			
3004+38.88	TO	3005+38.88	RT	100.00	8.00	89		104			
3005+38.88	TO	3016+27.62	RT	1,088.74	6.00	726		887			
3016+27.62	TO	3017+27.62	RT	100.00	8.00	89		104			
3017+27.62	TO	3017+51.90	RT	24.28	10.00	27		31			
TOTALS CARRIED TO GENERAL SUMMARY									9,161	276	7,796

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STATION RANGE			SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	206	206	206
								CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	TEST ROLLING	MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS
				FT	FT	SY	SY	SY	HOUR	LS
I-71 SB PAVEMENT PLANING										
209+44.97	TO	210+00.00	RT	55.03	24.00	147				
210+00.00	TO	210+50.00	RT	50.00	24.00	133				
210+50.00	TO	211+50.00	RT	100.00	24.00	267				
I-71 SB RAMP B3 PAVEMENT REPAIR/PLANING										
695+53.47	TO	695+67.15	LT/RT	13.68	25.60		40			
			LT	13.68	0.40		1	4	0.01	
695+67.15	TO	695+84.64	LT/RT	17.49	24.70		48			
			LT	17.49	1.30		2	6	0.01	
695+84.64	TO	696+15.51	LT/RT	30.87	23.40		82			
			LT	30.87	2.60		9	15	0.01	
696+15.51	TO	697+33.97	LT/RT	118.46	18.15		239			
			LT	118.46	6.05		76	100	0.05	
697+33.97	TO	697+89.97	LT/RT	56.00	22.00		138	153	0.08	
I-71 SB										
211+50.00	TO	212+06.18	RT	56.18	29.00		181	181	0.09	
212+06.18	TO	216+60.60	LT/RT	454.42	51.00		2,575	2,693	1.35	
216+60.60	TO	216+74.28	LT/RT	13.68	51.00		78	82	0.04	
216+74.28	TO	221+10.00	LT/RT	435.72	51.00		2,469	2,177	1.09	
221+10.00	TO	222+33.52	LT/RT	123.52	51.00		700			
222+33.52	TO	223+47.70	LT/RT	114.18	52.20		662			
223+47.70	TO	226+30.54	LT/RT	282.84	59.60		1,863			
226+30.54	TO	227+92.43	LT/RT	161.89	67.50		1,215			
227+92.43	TO	228+69.77	LT/RT	77.34	69.95		601			
228+69.77	TO	230+54.84	LT/RT	185.07	50.00		1,000			
230+54.84	TO	230+84.84	LT	30.00	13.80		46			
I-71 SB PAVMT. REPAIR CONC BARRIER										
209+44.97	TO	211+50.00	RT	205.03	5.00	114		103	0.05	
I-71 SB PAVMT. REPAIR CONC BARRIER										
695+29.60	TO	703+48.40	LT	818.80	15.70	1,428		1,383	0.69	
703+48.40	TO	706+94.62	LT	346.22	15.70	604		585	0.29	
706+94.62	TO	712+74.50	LT	579.88	4.88	314		314	0.16	
I-71 RAMP C3										
3004+36.43	TO	3015+36.57	LT	1,100.14	4.00	489				
3004+38.88	TO	3017+51.90	LT	1,313.02	16.00	2,334				
3004+38.88	TO	3005+38.88	RT	100.00	8.00	89				
3005+38.88	TO	3016+27.62	RT	1,088.74	6.00	726				
3016+27.62	TO	3017+27.62	RT	100.00	8.00	89				
3017+27.62	TO	3017+51.90	RT	24.28	10.00	27				
TOTALS CARRIED TO GENERAL SUMMARY								7,796	4	LS

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STATION RANGE	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	252	252	253
						FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT	FULL DEPTH PAVEMENT SAWING	PAVEMENT REPAIR
						SY	FT	SY
I-71 SB PAVEMENT PLANING								
209+44.97	TO	210+00.00	RT	55.03	24.00	147		
210+00.00	TO	210+50.00	RT	50.00	24.00	133		
210+50.00	TO	211+50.00	RT	100.00	24.00	267		
I-71 SB RAMP B3 PAVEMENT REPAIR/PLANING								
695+53.47	TO	695+67.15	LT/RT	13.68	25.60	40	40	
			LT	13.68	0.40	1		
695+67.15	TO	695+84.64	LT/RT	17.49	24.70	48		
			LT	17.49	1.30	2		
695+84.64	TO	696+15.51	LT/RT	30.87	23.40	82		
			LT	30.87	2.60	9		
696+15.51	TO	697+33.97	LT/RT	118.46	18.15	239		
			LT	118.46	6.05	76		
697+33.97	TO	697+89.97	LT/RT	56.00	22.00	138		
I-71 SB								
211+50.00	TO	212+06.18	RT	56.18	29.00	181		
212+06.18	TO	216+60.60	LT/RT	454.42	51.00	2,575		
216+60.60	TO	216+74.28	LT/RT	13.68	51.00	78		
216+74.28	TO	221+10.00	LT/RT	435.72	51.00	2,469		
221+10.00	TO	222+33.52	LT/RT	123.52	51.00	700		
222+33.52	TO	223+47.70	LT/RT	114.18	52.20	662		
223+47.70	TO	226+30.54	LT/RT	282.84	59.60	1,863		
226+30.54	TO	227+92.43	LT/RT	161.89	67.50	1,215		
227+92.43	TO	228+69.77	LT/RT	77.34	69.95	601		
228+69.77	TO	230+54.84	LT/RT	185.07	50.00	1,000		
230+54.84	TO	230+84.84	LT	30.00	13.80	46		
I-71 SB PAVMT. REPAIR CONC BARRIER								
209+44.97	TO	211+50.00	RT	205.03	5.00	114		114
I-71 SB PAVMT. REPAIR CONC BARRIER								
695+29.60	TO	703+48.40	LT	818.80	15.70	1,428		1,428
703+48.40	TO	706+94.62	LT	346.22	15.70	604		
706+94.62	TO	712+74.50	LT	579.88	4.88	314		
I-71 RAMP C3								
3004+36.43	TO	3015+36.57	LT	1,100.14	4.00	489		
3004+38.88	TO	3017+51.90	LT	1,313.02	16.00	2,334		
3004+38.88	TO	3005+38.88	RT	100.00	8.00	89		
3005+38.88	TO	3016+27.62	RT	1,088.74	6.00	726		
3016+27.62	TO	3017+27.62	RT	100.00	8.00	89		
3017+27.62	TO	3017+51.90	RT	24.28	10.00	27		
TOTALS CARRIED TO GENERAL SUMMARY						40		1,542

SEE ROADWAY SUBSUMMARIES

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STATION RANGE			SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	254	302	304
								PAVEMENT PLANING, ASPHALT CONCRETE (VARIABLE DEPTH)	ASPHALT CONCRETE BASE, PG64-22, 10.5"	AGGREGATE BASE, 6"
				FT	FT	SY	SY	SY	CY	CY
I-71 SB PAVEMENT PLANING										
209+44.97	TO	210+00.00	RT	55.03	24.00	147		147		
210+00.00	TO	210+50.00	RT	50.00	24.00	133		133		
210+50.00	TO	211+50.00	RT	100.00	24.00	267		267		
I-71 SB RAMP B3 PAVEMENT REPAIR/PLANING										
695+53.47	TO	695+67.15	LT/RT	13.68	25.60		40			
			LT	13.68	0.40		1		0.60	0.40
695+67.15	TO	695+84.64	LT/RT	17.49	24.70		48	48		
			LT	17.49	1.30		2		1	0.70
695+84.64	TO	696+15.51	LT/RT	30.87	23.40		82	82		
			LT	30.87	2.60		9		3	2
696+15.51	TO	697+33.97	LT/RT	118.46	18.15		239	239		
			LT	118.46	6.05		76		24	14
697+33.97	TO	697+89.97	LT/RT	56.00	22.00		138		41	24
I-71 SB										
211+50.00	TO	212+06.18	RT	56.18	29.00		181		53	30
212+06.18	TO	216+60.60	LT/RT	454.42	51.00		2,575		760	440
216+60.60	TO	216+74.28	LT/RT	13.68	51.00		78		24	14
216+74.28	TO	221+10.00	LT/RT	435.72	51.00		2,469		690	363
221+10.00	TO	222+33.52	LT/RT	123.52	51.00		700		187	89
222+33.52	TO	223+47.70	LT/RT	114.18	52.20		662		178	85
223+47.70	TO	226+30.54	LT/RT	282.84	59.60		1,863		508	249
226+30.54	TO	227+92.43	LT/RT	161.89	67.50		1,215		332	168
227+92.43	TO	228+69.77	LT/RT	77.34	69.95		601		172	94
228+69.77	TO	230+54.84	LT/RT	185.07	50.00		1,000		287	151
230+54.84	TO	230+84.84	LT	30.00	13.80		46		13	8
I-71 SB PAVMT. REPAIR CONC BARRIER										
209+44.97	TO	211+50.00	RT	205.03	5.00	114				
I-71 SB PAVMT. REPAIR CONC BARRIER										
695+29.60	TO	703+48.40	LT	818.80	15.70	1,428				
703+48.40	TO	706+94.62	LT	346.22	15.70	604			176	100
706+94.62	TO	712+74.50	LT	579.88	4.88	314			92	52
I-71 RAMP C3										
3004+36.43	TO	3015+36.57	LT	1,100.14	4.00	489			163	109
3004+38.88	TO	3017+51.90	LT	1,313.02	16.00	2,334			681	389
3004+38.88	TO	3005+38.88	RT	100.00	8.00	89			28	17
3005+38.88	TO	3016+27.62	RT	1,088.74	6.00	726			232	148
3016+27.62	TO	3017+27.62	RT	100.00	8.00	89			28	17
3017+27.62	TO	3017+51.90	RT	24.28	10.00	27			8	5
TOTALS CARRIED TO GENERAL SUMMARY								916	4,682	2,570

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STATION RANGE			SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	407	407	442
								NON-TRACKING TACK COAT , 0.055 GAL/SY	NON-TRACKING TACK COAT , 0.085 GAL/SY	ANTI-SEGREGATION EQUIPMENT
				FT	FT	SY	SY	GAL	GAL	CY
I-71 SB PAVEMENT PLANING										
209+44.97	TO	210+00.00	RT	55.03	24.00	147		8	12	13
210+00.00	TO	210+50.00	RT	50.00	24.00	133		7	11	13
210+50.00	TO	211+50.00	RT	100.00	24.00	267		15	23	24
I-71 SB RAMP B3 PAVEMENT REPAIR/PLANING										
695+53.47	TO	695+67.15	LT/RT	13.68	25.60		40			
			LT	13.68	0.40		1	0.20		0.20
695+67.15	TO	695+84.64	LT/RT	17.49	24.70		48	3	4	4
			LT	17.49	1.30		2	0.30		0.20
695+84.64	TO	696+15.51	LT/RT	30.87	23.40		82	5	7	7
			LT	30.87	2.60		9	1.50		0.80
696+15.51	TO	697+33.97	LT/RT	118.46	18.15		239	13	20	22
			LT	118.46	6.05		76	13		7
697+33.97	TO	697+89.97	LT/RT	56.00	22.00		138	23	12	13
I-71 SB										
211+50.00	TO	212+06.18	RT	56.18	29.00		181	30		14
212+06.18	TO	216+60.60	LT/RT	454.42	51.00		2,575	425		232
216+60.60	TO	216+74.28	LT/RT	13.68	51.00		78	13		7
216+74.28	TO	221+10.00	LT/RT	435.72	51.00		2,469	407		223
221+10.00	TO	222+33.52	LT/RT	123.52	51.00		700	116		63
222+33.52	TO	223+47.70	LT/RT	114.18	52.20		662	109		60
223+47.70	TO	226+30.54	LT/RT	282.84	59.60		1,863	307		169
226+30.54	TO	227+92.43	LT/RT	161.89	67.50		1,215	200		110
227+92.43	TO	228+69.77	LT/RT	77.34	69.95		601	99		54
228+69.77	TO	230+54.84	LT/RT	185.07	50.00		1,000	165		91
230+54.84	TO	230+84.84	LT	30.00	13.80		46	8		4
I-71 SB PAVMT. REPAIR CONC BARRIER										
209+44.97	TO	211+50.00	RT	205.03	5.00	114				
I-71 SB PAVMT. REPAIR CONC BARRIER										
695+29.60	TO	703+48.40	LT	818.80	15.70	1,428				
703+48.40	TO	706+94.62	LT	346.22	15.70	604		94		50
706+94.62	TO	712+74.50	LT	579.88	4.88	314		39		18
I-71 RAMP C3										
3004+36.43	TO	3015+36.57	LT	1,100.14	4.00	489		81		44
3004+38.88	TO	3017+51.90	LT	1,313.02	16.00	2,334		385		210
3004+38.88	TO	3005+38.88	RT	100.00	8.00	89		15		8
3005+38.88	TO	3016+27.62	RT	1,088.74	6.00	726		120		65
3016+27.62	TO	3017+27.62	RT	100.00	8.00	89		15		8
3017+27.62	TO	3017+51.90	RT	24.28	10.00	27		4		2
TOTALS CARRIED TO GENERAL SUMMARY								2,721	89	1,536

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STATION RANGE			SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	442	442	442
								ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) AS PER PLAN, "A"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN B, 76-22M	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)1.75"
				FT	FT	SY	SY	CY	CY	CY
I-71 SB PAVEMENT PLANING										
209+44.97	TO	210+00.00	RT	55.03	24.00	147		6		7
210+00.00	TO	210+50.00	RT	50.00	24.00	133		6		7
210+50.00	TO	211+50.00	RT	100.00	24.00	267		11		13
I-71 SB RAMP B3 PAVEMENT REPAIR/PLANING										
695+53.47	TO	695+67.15	LT/RT	13.68	25.60		40			
			LT	13.68	0.40		1		0.10	0.10
695+67.15	TO	695+84.64	LT/RT	17.49	24.70		48		2	2
			LT	17.49	1.30		2		0.10	0.10
695+84.64	TO	696+15.51	LT/RT	30.87	23.40		82		3	4
			LT	30.87	2.60		9		0.40	0.40
696+15.51	TO	697+33.97	LT/RT	118.46	18.15		239		10	12
			LT	118.46	6.05		76		3	4
697+33.97	TO	697+89.97	LT/RT	56.00	22.00		138		6	7
I-71 SB										
211+50.00	TO	212+06.18	RT	56.18	29.00		181	5		9
212+06.18	TO	216+60.60	LT/RT	454.42	51.00		2,575	107		125
216+60.60	TO	216+74.28	LT/RT	13.68	51.00		78	3		4
216+74.28	TO	221+10.00	LT/RT	435.72	51.00		2,469	103		120
221+10.00	TO	222+33.52	LT/RT	123.52	51.00		700	29		34
222+33.52	TO	223+47.70	LT/RT	114.18	52.20		662	28		32
223+47.70	TO	226+30.54	LT/RT	282.84	59.60		1,863	78		91
226+30.54	TO	227+92.43	LT/RT	161.89	67.50		1,215	51		59
227+92.43	TO	228+69.77	LT/RT	77.34	69.95		601	25		29
228+69.77	TO	230+54.84	LT/RT	185.07	50.00		1,000	42		49
230+54.84	TO	230+84.84	LT	30.00	13.80		46	2		2
I-71 SB PAVMT. REPAIR CONC BARRIER										
209+44.97	TO	211+50.00	RT	205.03	5.00	114				
I-71 SB PAVMT. REPAIR CONC BARRIER										
695+29.60	TO	703+48.40	LT	818.80	15.70	1,428				
703+48.40	TO	706+94.62	LT	346.22	15.70	604		21		29
706+94.62	TO	712+74.50	LT	579.88	4.88	314		8		10
I-71 RAMP C3										
3004+36.43	TO	3015+36.57	LT	1,100.14	4.00	489			20	24
3004+38.88	TO	3017+51.90	LT	1,313.02	16.00	2,334			97	113
3004+38.88	TO	3005+38.88	RT	100.00	8.00	89			4	4
3005+38.88	TO	3016+27.62	RT	1,088.74	6.00	726			30	35
3016+27.62	TO	3017+27.62	RT	100.00	8.00	89			4	4
3017+27.62	TO	3017+51.90	RT	24.28	10.00	27			1	1
TOTALS CARRIED TO GENERAL SUMMARY								525	181	831

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STATION RANGE			SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	872 VOID REDUCING ASPHALT MEMBRANE (VRAM)
				FT	FT	SY	SY	FT
I-71 SB PAVEMENT PLANING								
209+44.97	TO	210+00.00	RT	55.03	24.00	147		165
210+00.00	TO	210+50.00	RT	50.00	24.00	133		150
210+50.00	TO	211+50.00	RT	100.00	24.00	267		300
I-71 SB RAMP B3 PAVEMENT REPAIR/PLANING								
695+53.47	TO	695+67.15	LT/RT	13.68	25.60		40	27
			LT	13.68	0.40		1	
695+67.15	TO	695+84.64	LT/RT	17.49	24.70		48	35
			LT	17.49	1.30		2	
695+84.64	TO	696+15.51	LT/RT	30.87	23.40		82	62
			LT	30.87	2.60		9	
696+15.51	TO	697+33.97	LT/RT	118.46	18.15		239	118
			LT	118.46	6.05		76	
697+33.97	TO	697+89.97	LT/RT	56.00	22.00		138	56
I-71 SB								
211+50.00	TO	212+06.18	RT	56.18	29.00		181	169
212+06.18	TO	216+60.60	LT/RT	454.42	51.00		2,575	1,818
216+60.60	TO	216+74.28	LT/RT	13.68	51.00		78	62
216+74.28	TO	221+10.00	LT/RT	435.72	51.00		2,469	2,179
221+10.00	TO	222+33.52	LT/RT	123.52	51.00		700	618
222+33.52	TO	223+47.70	LT/RT	114.18	52.20		662	571
223+47.70	TO	226+30.54	LT/RT	282.84	59.60		1,863	1,697
226+30.54	TO	227+92.43	LT/RT	161.89	67.50		1,215	971
227+92.43	TO	228+69.77	LT/RT	77.34	69.95		601	425
228+69.77	TO	230+54.84	LT/RT	185.07	50.00		1,000	648
230+54.84	TO	230+84.84	LT	30.00	13.80		46	105
I-71 SB PAVMT. REPAIR CONC BARRIER								
209+44.97	TO	211+50.00	RT	205.03	5.00	114		
I-71 SB PAVMT. REPAIR CONC BARRIER								
695+29.60	TO	703+48.40	LT	818.80	15.70	1,428		
703+48.40	TO	706+94.62	LT	346.22	15.70	604		519
706+94.62	TO	712+74.50	LT	579.88	4.88	314		870
I-71 RAMP C3								
3004+36.43	TO	3015+36.57	LT	1,100.14	4.00	489		
3004+38.88	TO	3017+51.90	LT	1,313.02	16.00	2,334		2,626
3004+38.88	TO	3005+38.88	RT	100.00	8.00	89		
3005+38.88	TO	3016+27.62	RT	1,088.74	6.00	726		
3016+27.62	TO	3017+27.62	RT	100.00	8.00	89		
3017+27.62	TO	3017+51.90	RT	24.28	10.00	27		
TOTALS CARRIED TO GENERAL SUMMARY								14,191