Table 9. (Cent) Project Core Test Data (C1-C5)
Thickness, Voids and Abson Recovery - All Courses

SITE	LAYER	SR	MIX TYPE	LAYER THICKNESS AVG	LAYER THICKNESS SD	% VOIDS AVG	% VOIDS SD	% VOIDS MIN	RECOVERED ASPHALT PEN (0.1mm) (77F)	RECOVERED ASPHALT VISC (Poises) (140F)
23	1	76	ID2W	1.8125	0.543	2.64	0.598	2.30	42	7401
23	2	76	ID2B	2.3375	0.503	1.66	0.850	0.50	44	6100
23	3	76	ID2B	---	---	---	---	---	---	---
24	1	76	ID2W	1,3125	0.221	3.82	1.320	2.60	34	11280
24	2	76	ID2B	2.2750	0.656	2.58	1.580	1.10	37	9357
24	3	76	ID2B	---	---	---	---	---	---	---
25	1	11	ID2W	1.3125	0,313	3.64	1.443	2.10	52	7018
25	2	11	SP B	3.5250	0.399	4,68	2.134	1.30	53	7004
26	1	83	ID2W	1.5750	0.068	7,40	0.274	7.00	45	6643
26	2	83	ID2B	2.5375	0.169	5.44	1.798	4.30	45	5661
27	1	83	ID2W	1.5750	0.288	2.50	0.381	2.00	38	9690
27	2	83	ID2B	2,1875	0.165	2.90	0.784	1.80	45	8165
28	1	22	ID3W	1.9750	0.071	5.10	0.755	4.60	44	5051
28	2	22	LEVEL	0.8875	0.052	---	---	---	---	---
28	3	22	ID2W	---	---	---	---	---	38	9037
28	4	22	ID2B	---	---	---	---	---	---	---
29	1	11	ID3W	1.9875	0.413	2.60	0.354	2.20	41	7752
29	2	11	ID2B	---	---	---	---	---	18	109172
30	1	11	ID2W	1.5630	0.063	2.92	1.126	2.10	59	5753
30	2	11	ID2B	---	---	---	---	---	56	7904
31	1	220	ID2W	---	---	5.86	1.590	4.00	42	5701
31	2	220	ID2B	---	---	---	---	---	35	14262
31	3	220	LEVEL	---	---	---	---	---		
32	1	70	ID2W	1.3750	0.198	4.38	1.410	3.00	35	14262
32	2	70	ID2B	1.6750	0.401	2.48	0.988	1.40	55	5729
33	1	70	ID2W	1.3000	0.326	4.90	0.822	3.80	44	8583
33	2	70	ID2B	1.5250	0.185	3.58	1.642	1.90	40	9740

"---" Data Not Available

Table 9. (Cent) Project Core Test Data (C1-C5)
Thickness, Voids and Abson Recovery - All Courses

SITE	LAYER	SR	MIX TYPE	LAYER THICKNESS AVG	LAYER THICKNESS SD	% VOIDS AVG	% VOIDS SD	% VOIDS MIN	RECOVERED ASPHALT PEN (0.1mm) (77F)	RECOVERED ASPHALT VI Sc (Poises) (140F)
34	1	70	ID2W	1.5000	0.000	2.54	0.230	2,40	38	19498
34	2	70	ID2W	---	---	---	---	---	---	---
34	3	70	LEVEL	---	---	---	---	'--	---	---
34	4	70	ID2B	---	---	---	---	---	---	---
35	1	80	ID2W	---	---	5.82	1.126	4.37	37	8378
35	2	80	ID2B	---	---	5.94	1.043	4.88	49	6295
35	3	80	BCBC	---	---	5.22	0.801	4.00	---	---

"---" Data Not Available

Layer 1								
Average:			1.49	0.18	3.17	0.76	2.31	41.74	9994.32
Std Deviation:			0.342	00130	1.544	0.423	1.389	7.690	4335.142
Layer 2									
Average:			2.62	0.35	3.02	1,13	1.84	46.97	11544.72
Std Deviation:			1.188	0.290	1.384	0.510	1.221	12.319	18932.15

Table 10. Project Core Test Data (C1-C5) - Aggregate Properties

				COARSE AGGREGATE		FINE AGGREGATE			
SITE	LAYER	SR	MIX TYPE	PCT TOTAL MIX	CRUSH COUNT	PCT TOTAL MIX	PCT VOIDS TOTAL	PCT NAT'L SAND IN F.A.	MAN'F. SAND TYPE
1	1	80	ID2W	45.2	98	54.8	46.0	0.0	DO
1	2	80	ID2B	71.2	100	28.8	44.6	0.0	DO
2	1	279	ID2W	48.0	86	52.0	44.5	25.0	LS
2	2	279	ID2B	66.5	100	33.5	43.5	25.1	LS
3	1	279	ID2W	32.3	86	67.7	43.9	100.0	---
3	2	279	ID2B	61.5	---	38.5	---	100.0	---
4	1	279	ID2W	48.3	86	51.7	42.6	74.9	LS
4	2	279	ID2B	61.5	---	38.5	43.0	100.0	---
5	1	30	ID2W	49.7	87	50.3	44.5	25.0	CS
5	2	30	ID2B	72.9	100	27.1	43.1	25.1	Cs
6	1	30	ID2W	49.6	82	50.4	44.2	50.0	Cs
6	2	30	ID2B	70.9	100	29.1	43.0	50.2	Cs
7	1	70	ID2W	48.2	66	51.8	43.5	24.5	Cs
7	2	70	ID2B	66.6	100	33.4	---	24.3	Cs
8	1	76	ID2W	47.6	94	52,4	41.8	100.0	---
9	1	70/76	ID2W	---	100	---	---	---	LS
10	1	70/76	ID2W	41.2	---	58.8	39.9	0.0	Ss
11	1	90	ID2W	---	96	---	42.2	---	---
12	1	81	ID2W	42.3	100	57,7	42.7	25.0	Ss
12	2	81	BCBC	68.6	100	31,4	44.2	0.0	Ss
13	1	81	ID2W	42.3	100	57.7	44.6	25.0	Ss
13	2	81	ID2B	68.6	100	31.4	43.4	0.0	Ss
14	1	81	ID2W	49.7	100	50.3	46.0	0.0	Ss
14	2	81	ID2B	77.7	100	22.3	44.5	0.0	Ss

"---" Data Not Available

Table 10. (Cent) Project Core Test Data (C1-C5) - Aggregate Properties

				COARSE AGGREGATE		FINE AGGREGATE			
SITE	LAYER	SR	MIX TYPE	PCT TOTAL MIX	CRUSH COUNT	PCT TOTAL MIX	PCT VOIDS TOTAL	PCT NAT'L SAND IN F.A.	MAN'F. SAND TYPE
15	1	78	ID2W	48.9	87	51.1	42.8	0.0	LS-DO
15	2	78	ID2B	61.7	100	38.3	44.2	0.0	LS-DO
16	1	78	ID2W	45.2	83	54.8	44.5	0,0	LS-DO
16	2	78	ID2B	70.2	---	29.8	42.8	50.0	LS-DO
17	1	81	ID2W	4200	---	58.0	42.6	100.0	---
17	2	81	ID2B	65.3	---	34*7	---	100.0	---
18	1	81	ID2W	56.2	100	43.8	---	0.0	DO
18	2	81	ID2B	69.8	100	30.2	---	0.0	DO
19	1	222	ID2W	53.4	100	46.6	45.3	0.0	LS-DO
19	2	222	ID2W	53.4	100	46.6	---	0.0	---
20	1	222	ID2W	55.0	100	45.0	44.9	0.0	LS
20	2	222	ID2B	73.6	100	26.4	44.6	0.0	LS
22	1	76	ID2W	52.0	---	48.0	---	50.0	---
22	2	76	---	71.0	---	29.0	---	44.8	---
23	1	76	ID2W	52.0	---	48.0	---	50.0	---
23	2	76	ID2B	71.0	---	29.0	---	44.8	---
24	1	76	ID2W	57.4	92	42.6	43.6	20.0	DO
24	2	76	ID2B	74.5	---	25.5	43.9	2000	DO
25	1	11	ID2W	---	---	---	---	---	Ss
25	2	11	SP B	75.0	100	25.0	46.5	0.0	Ss
26	1	83	ID2W	48.2	100	51.8	---	0.0	Ss
26	2	83	ID2B	63.4	100	36.6	46.8	0.0	Ss
27	1	83	ID2W	---	---	---	---	---	---
27	2	83	ID2B	---	---	---	---	---	---

"---" Data Not Available

Table 10. (Cent) Project Core Test Data (C1-C5) - Aggregate Properties

SITE	LAYER	SR	MIX TYPE	COARSE AGGREGATE PCT TOTAL MIX	COARSE AGGREGATE CRUSH COUNT	FINE AGGREGATE PCT TOTAL MIX	FINE AGGREGATE PCT VOIDS TOTAL	FINE AGGREGATE PCT NAT'L SAND IN F.A.	FINE AGGREGATE MAN'F. SAND TYPE
28	1	22	ID3W	52.8	100	47.2	46.1	0.0	Ss
28	2	22	LEVEL	---	---	---	---	---	Ss
29	1	11	ID3W	---	---	---	---	---	---
29	2	11	ID2B	---	---	---	---	---	---
30	1	11	ID2W	---	---	---	---	---	---
31	1	220	ID2W	46.8	---	53.2	---	0.0	LS
31	2	220	ID2B	---	---	---	---	---	---
32	1	70	ID2W	46.4	100	53.6	44.8	0.0	LS
32	2	70	ID2B	65.0	100	35.0	45.0	0.0	LS
33	1	70	ID2W	46.4	100	53.6	44,8	0.0	LS
33	2	70	ID2B	65.0	100	35.0	45.0	0,0	LS
34	1	70	ID2W	51.0	100	49.0	46.3	0.0	LS-DO
34	2	70	ID2W	69.9	100	30.1	---	0.0	LS-DO
35	1	80	ID2W	53.4	---	46.6	45.3	0,0	DO
35	2	80	ID2B	66.3	100	33,7	45.5	0.0	DO
Layer 1									
Average:				48,27	93.46	51.73	44.06	23.90	
Std Deviation:				5.218	8.631	5.177	1.536	33.060	
Layer 2									
Average:				68.04	100.00	31.96	44.33	23.37	
Std Deviation:				5.218	0.000	5.218	1.148	33.244	

"---" Data Not Available

DO=dolomite LS=limestone CS=calcareous SS=sandstone

Table 11. Project Core Test Data **(C7-C11)** - Void Contents - All **Courses**

				% IN-PLACE VOIDS								RECOMPACTED VOIDS %		
SITE	LYR	SR	MIX TYPE	C7	C8	C9	Clo	Cll	AVG	MIN	20th PCT'L	GYRATORY COMP	ROTATING BASE	STATIC BASE
1	1	80	ID2W 5.19	4.99	4.59	5.31	5.15	5.05	4.59	4.81		2.8	1.6	2.5
1	2	80	ID2B 5,06	7.53	6.02	6.37	7.45	6.49	5.06	5.62		2.6	3.2	3.7
1	3	80	BCBC 8.41	7.91	8.18	8.41	8,18	8.22	7.91	8.04		4.0	5*O	5.0
2	1	279	ID2W 1,97	2.26	2.39	2,05	2.09	2.15	1.97	2.01		2.5	2.3	3.2
2	2	279	ID2B 2,54	2.08	3.00	2.46	1.83	2.38	1.83	2000		1.3	1.7	2.1
3	1	279	ID2W 1.40	1*35	1.35	1.35	1.35	1.36	1.35	1.34		0.8	1.4	1.5
3	2	279	ID2B 2.10	2.22	3.31	1.72	2.98	2.47	1.72	1091		O*9	0.8	1.4
4	1	279	ID2W 6.66	5.20	5.58	5.24	5.04	5.54	5004	4099		4.2	2.2	2.5
4	2	279	ID2B 2.94	3,39	2,62	1.65	2.78	2.68	1.65	2.14		1.3	1*1	1.5
5	1	30	ID2W 2.52	2.40	1.68	2.02	1030	1.98	1,30	1.56		1.2	1.6	1.6
5	2	30	ID2B 1030	1.67	1.79	1.71	1.71	1,64	1.30	1.47		0.6	0.7	1.0
6	1	30	ID2W 4.86	3.48	3.35	3.48	3.52	3.74	3.35	3.21		2.3	2.1	2.5
6	2	30	ID2B 4.69	3.84	4.08	3.07	3.11	3.76	3.07	3.18		1.2	2.3	2.4
6	3	30	LEVEL ---	4.27	4.14	4.14	4.74	4,32	4.14	4.08		-0.6	---	-0.6
7	1	70	ID2W 2.50	2.34	4.42	2.13	1.50	2.58	1.50	1.66		1.5	---	1.1
7	2	70	ID2B 3.68	4.45	3.03	2.26	2.59	3,20	2,26	2.47		1.0	1.4	1.5
7	3	70	LEVEL 3.22	0.00	3.35	2.96	2.96	2.50	0.00	1.32		0.5	---	1.0
8	1	76	ID2W 0.63	1.21	4.35	1.00	1.88	1.81	0.63	0.56		3*7	1*O	1.5
8	2	76	LEVEL 6.21	4.79	7.29	6.94	-3.36	4.37	-3,36	0.65		3.8	---	3.7
8	3	76	ID2B 4.67	4*59	6.86	5.71	5.03	5.37	4.59	4.58		3.8	2.9	3.5
8	4	76	FJ 3.57	3,52	4.71	4.30	---	4.03	3.52	3.54		0,4	---	0.8

"---" Insufficient Material for Testing

Table 11. (Cent) Project Core Test Data (C7-C11) - Void Contents - All Courses

				% IN-PLACE VOIDS								RECOMPACTED VOIDS %		
SITE	LYR	SR	MIX TYPE	C7	C8	C9	Clo	C11	AVG	MIN	20th PCT'L	GYRATORY COMP	ROTATING BASE	STATIC BASE
9	1	70/76	ID2W	2.61	2.09	2.99	1.75	1.92	2.27	1.75	1.84	4.9	----	4.9
9	2	70/76	ID2B	2.42	2.98	3.06	1.59	1.59	2.33	1.59	1.73	2.0	2.0	109
9	3	70/76	ID2W	6.29	4.88	4.64	4.68	4.96	5.09	4.64	4.52	2.9	1.5	1.9
10	1	70/76	ID2W	1,00	0.71	2.17	0.71	0.92	1.10	0.71	0.59	2.1	---	1.5
10	2	70/76	ID2B	4*1O	4.41	5.60	3.98	4.45	4.51	3.98	3.97	2.2	2.1	3.2
11	1	90	ID2W	2.32	1.27	3.80	2.07	1.73	2.24	1.27	1.43	-0.1	0.2	0.3
11	2	90	BCBC	7.58	8.31	7.98	6.48	7.17	7.50	6.48	6.90	3*3	2.7	3.4
11	3	90	BCBC	8.35	8.88	9.57	8.23	9.57	8.92	8.23	8.38			
12	1	81	ID2W	6.81	5.86	5.90	5.70	6.36	6.13	5.70	5,74	2.8	2.2	2.5
12	2	81	BCBC	1.27	0.91	1019	2.14	1.55	1.41	0.91	1.02	1.5	1.9	1.7
12	3	81	LEVEL	6.03	6.31	6.68	6.85	4.48	6.07	4.48	5.28	3.0	1.6	2.2
13	1	81	ID2W	3.33	2.34	2.71	2.71	2.30	2.68	2.30	2.33	3.2	---	3.2
13	2	81	ID2B	0.76	0.08	0.52	0.32	0.84	0.50	0.08	0.24	1.7	1.0	1.4
13	3	81	ID2B	4.22	1.97	5.56	5.56	4.89	4.44	1097	3.19	4.0	4.1	4.4
13	4	81	ID2W	---	2.47	---	6010	8.28	5.62	2.47	3015	1.5	---	1.9
14	1	81	ID2W	3.05	2.68	2.81	2.68	3.05	2.85	2.68	2,70	1.7	1.2	1.2
14	2	81	ID2B	3.92	5.14	4.70	4.04	3.76	4.31	3.76	3.82	2.0	1.7	1.8
14	3	81	ID2W	4.68	5,17	3.68	6.08	---	4090	3.68	4.06	---	---	---
14	4	81	ID2W	---	1.81	2.35	4.61	---	2.92	1.81	1.68	---	---	---
15	1	78	ID2W	2.78	2,37	2.82	2.98	1039	2.47	1.39	1.93	-2.1	-2.2	-1.4
15	2	78	ID2B	5.40	4.28	5.25	4.62	4.16	4.74	4.16	4.27	7.1	6.4	6.9

"---" Insufficient Material for Testing

Table 11. (Cent) Project Core Test Data (C7-C11) - Void Contents - All Courses

				% IN-PLACE VOIDS								RECOMPACTED VOIDS %		
SITE	LYR	SR	MIX TYPE	C7	C8	C9	Clo	C11	AVG	MIN	20th PCT'L	GYRATORY COMP	ROTATING BASE	STATIC BASE
-16	1	78	ID2W	5.18	3.02	4.44	5.79	3.18	4.32	3.02	3.30	3.7	1.3	3.1
16	2	78	ID2B	5.01	4.19	5.40	5.87	3.91	4.88	3.91	4,19	109	2.0	3.2
17	1	81	ID2W	4.59	3.81	3.85	3.15	4.35	3.95	3.15	3.48	2.8	2.6	3.4
17	2	81	ID2B	2,70	3.15	5.81	2.78	6.69	4.23	2.70	2.65	2.7	2,8	3.8
18	1	81	ID2W	2.32	3.46	2.72	2.64	2.60	2.75	2.32	2.39	2.8	1.6	---
18	2	81	ID2B	3.13	0.08	1.55	2.16	1.62	1.71	0.08	0.78	0.8	0.2	2.1
18	3	81	BCBC	3.66	3,01	2,68	---	4.59	3.49	2.68	2.78	2.0	1.6	2.5
19	1	222	ID2W	5.04	6.46	5,97	3,83	4,48	5.16	3.83	4.26	2.8	1.8	2.3
19	2	222	ID2W	4.73	5.53	4.29	3.57	4.49	4.52	3.57	3.92	3.6	2.2	3.0
19	3	222	ID2B	6,55	3.80	4.96	3.80	4.26	4.67	3.80	3.71	3.0	2.0	2.8
20	1	222	ID2W	3.43	2.93	4.48	2.51	3.73	3.42	2.51	2.78	9.2	800	---
20	2	222	ID2B	3.25	2.31	3.33	4.15	2.66	3.14	2.31	2.55	3,0	3.0	4.1
20	3	222	LEVEL	6.75	5.66	6.55	---	---	6.32	5.66	5.83	1.3	---	---
22	1	76	ID2W	4.96	3.87	7.09	4.15	4.07	4.83	3.87	3.71	1.5	0.6	1.5
22	2	76	---	1.07	0.69	0.31	0,27	0.84	0.64	0.27	0.35	0.6	0.2	0.6
22	3	76	ID2W	2.11	2.30	2.19	2.54	2.42	2.31	2.11	2,17	0.4	0.4	0.5
23	1	76	ID2W	2.27	4.95	5.15	0.32	3.21	3.18	0.32	1.50	1.5	1.8	1.6
23	2	76	ID2B	2.71	2.63	3.89	3.66	5.11	3.60	2.63	2.75	009	2.3	1.5
23	3	76	ID2B	5.75	2.06	---	---	4.49	4010	2.06	2,52	1.9	2.4	2.2

"---" Insufficient Material for Testing

Table 11. (Cent) Project Core Test Data (C7-C11) - Void Contents - All Courses

				% IN-PLACE VOIDS								RECOMPACTED VOIDS %		
SITE	LYR	SR	MIX TYPE	C7	C8	C9	Clo	C11	AVG	MIN	20th PCT'L	GYRATORY COMP	ROTATING BASE	STATIC BASE
24	1	76	ID2W	7.39	2.00	1.64	2,36	2.72	3.22	1.64	1,24	1.0	1.2	1.3
24	2	76	ID2B	3.15	2.20	2.50	1.21	1.33	2.08	1.21	1.39	1.8	1.8	1.7
25	1	11	ID2W	3.00	2.59	4.02	2.22	5.50	3*47	2.22	2.36	3.5	2.7	3.1
25	2	1 1	ID2B	2.96	2.84	2.84	2.52	4.08	3.05	2.52	2.54	3*4	3.4	3.7
26	1	83	ID2W	7.14	5.24	5.97	3.53	5.32	5*44	3.53	4.34	3.9	1.8	1.5
26	2	83	ID2B	6.48	4.50	5.70	4.31	5.51	5030	4.31	4.55	1.9	3.4	2.8
27	1	8 3	ID2W	3.96	3.06	2.61	3.51	2.57	3.14	2.57	2.64	1.1	----	1.7
27	2	83	ID2B	3,78	2.81	2.38	2.61	1.36	2.59	1.36	1.86	0.5	0.6	1.5
28	1	22	ID3W	4.66	5.89	4.67	4.42	11.79	6,29	4.42	3.66	201	1.2	1.6
28	2	22	LEVEL	8.05	6.60	7.72	8.75	6.52	7.53	6.52	6.72	3.2	---	2*2
28	3	22	ID2W	2.59	3.29	4.15	1.52	---	2.89	1.52	1.95	1.8	---	1.3
28	4	22	ID2B	7.10	6.00	3.53	7,77	---	6.10	3.53	4.54	-2.1	-1.1	-0.6
29	1	11	ID3W	5.51	3.33	5.63	4.92	2.94	4.47	2.94	3.41	3.1	2,7	3.0
29	2	11	ID2B	5.92	3.12	3.61	3.94	3.53	4.02	3.12	3010	-0.3	0.6	1.9
30	1	11	ID2W	1.73	1.81	2.10	1.98	2022	1.97	1.73	1.80	0.9	0.7	0.8
30	2	11	ID2B	2.39	3.59	2.91	2.47	2.15	2.70	2.15	2.23	1.2	1.4	1.9
31	1	220	ID2W	8.60	8.43	6.42	8.35	6.71	7.70	6.42	6,82	3.1	2.7	4.2
31	2	220	ID2B	8.99	7.51	4.80	6.75	6.47	6.90	4.80	5.62	1.4	1*5	2.2

"---" Insufficient Material for Testing

Table 11. (Cent) Project Core Test Data (C7-C11) - Void Contents - All Courses

SITE	LYR	SR	MIX TYPE	% IN-PLACE VOIDS C7	C8	C9	Clo	C11	AVG	MIN	20th PCT'L	RECOMPACTED VOIDS % GYRATORY COMP	ROTATING BASE	STATIC BASE
32	1	70	ID2W	5.52	3,06	3.77	3.69	3.85	3,98	3.06	3.21	2.2	1.7	2.1
32	2	70	ID2B	3.12	2.52	2.80	3.12	3.04	2.92	2.52	2.70	2.0	2.6	2.1
33	1	70	ID2W	7.05	5,56	6,12	7.29	6.61	6.53	5.56	5.94	1.8	1.0	1.3
33	2	70	ID2B	5.96	4.44	3.28	3.36	4.24	4.26	3.28	3.35	2.1	1.8	2.2
34	1	70	ID2W	4.81	2.89	3.42	3.79	3.42	3.67	2.89	3.07	1.7	1.6	1.7
34	2	70	ID2W	8.31	6.19	6.96	8.51	6.56	7.31	6.19	6.43	106	1,1	1.9
34	3	70	LEVEL	3.23	4.09	5.24	5.18	5.20	4.59	3.23	3.83	0.8	---	0.6
34	4	70	ID2B	7.50	4.48	3.89	4.40	4.68	4.99	3.89	3.79	3.5	2.5	3.8
35	1	80	ID2W	6.29	5.77	5.73	6.70	5.97	6.09	5.73	5.75	2.6	1.9	2.5
35	2	80	ID2B	6.19	6.23	6.80	6.23	6.88	6.47	6.19	6018	3.1	2.9	3.6
35	3	80	BCBC	5.83	6.30	5.99	6.14	6.10	6.07	5.83	5.92	3.2	2.8	3.9

"---" Insufficient Material for Testing

	C7	C8	C9	Clo	C11	AVG	MIN	20th PCT'L	COMP	BASE	BASE
Layer 1											
Average:	4.15	3.49	4.02	3.42	3.67	3.75	2.86	3.01	2.44	1.74	2.04
Std Deviation:	2.018	1.745	10531	1.851	2.152	1.624	1.559	1.564	1.761	1.511	1.160
Layer 2											
Average:	4.17	3.74	4001	3.69	3.52	3.83	2.77	3.10	2.00	1.96	2.46
Std Deviation:	4.173	3.741	4.009	3.694	3,518	3.827	2.769	3.095	1.997	1.963	2.459

Table 12. Project Core Test Data (C7~C11) - VMA/VFA/Creep - All Courses

SITE	LYR	SR	MIX TYPE	VMA GTM	VMA ROT	VMA PINE	VFA GTM	VFA ROT	VFA PINE	GSI	CREEP (0.0001 INCH) 60 MIN	45 MIN	30 MIN	15 MIN
1	1	80	ID2W	14.7	13.7	14.4	81.1	88.1	82.9	1.26	6.98	6.89	6.84	6.65
1	2	80	ID2B	12.1	12.6	13.0	78.3	74.8	71.7	1.13	4.56	4.52	4.47	4.36
1	3	80	BCBC	11.5	12.4	12.4	65.1	60.0	59.9	1.07	17.25	16.75	15.96	14.66
2	1	279	ID2W	16.2	16.0	16.8	84.4	85.7	81.0	1.10	9.38	9.33	9.12	8.82
2	2	279	ID2B	9.8	10.2	10.5	86.7	83.5	80.3	1.23	13.52	13.29	13.05	12.56
3	1	279	ID2W	13.5	14.0	14.1	94.3	90.1	89.3	1.50	9.00	8.92	8.72	8.42
3	2	279	ID2B	10.4	10.3	10.8	91.0	92.8	87.4	1.10	11.36	11.00	10.50	9.67
4	1	279	ID2W	15.2	13.5	13.7	72.4	83.8	82.0	1.00	10.39	10.29	10.13	9.94
4	2	279	ID2B	10.1	9.9	10.3	86.9	88.9	85.7	1.24	12.15	12.00	11.75	11.20
5	1	30	ID2W	14.7	15.1	15.1	91.7	89.1	89.1	1.68	10.41	10.31	10.22	10.05
5	2	30	ID2B	10.8	10.9	11.2	94.1	93.6	91.0	1.32	15.30	14.90	14.15	13.20
6	1	30	ID2W	14.5	14.3	14.7	84.0	85.6	82.9	1.60	12.05	11.90	11.70	11.40
6	2	30	ID2B	11.0	11.9	12.1	88.8	80.7	79.7	1.30	5.95	5.89	5.80	5.64
6	3	30	LEVEL	16.8	---	16.7	103.5	---	103.8	1.66	14.95	14.75	14.35	13.75
7	1	70	ID2W	13.8	---	13.5	92.0	---	89.5	1.55	14.40	14.30	14.00	13.50
7	2	70	ID2B	15.0	15.3	15.4	93.3	91.1	9.0.3	1.28	12.20	12.10	12.00	11.70
7	3	70	LEVEL	17.2	---	17.5	96.9	---	94.6	1.48	13.80	13.60	13.40	12.90

"---" Insufficient Material for Testing

Table 12. (Cent) Project Core Test Data (C7-C11) - VMA/VFA/Creep - All Courses

SITE	LYR	SR	MIX TYPE	VMA GTM	VMA ROT	VMA PINE	VFA GTM	VFA ROT	VFA PINE	GSI	CREEP (0.0001 INCH) 60 MIN	45 MIN	30 MIN	15 MIN
8	1	76	ID2W	14.5	12.2	12.6	74.7	91.5	88.3	1.00	15.70	15.70	15.50	15.20
8	2	76	LEVEL	19.6	---	19.5	80.8	---	81.2	1.36	62.75	62.60	62.30	61.70
8	3	76	ID2B	14.6	13.8	14.3	73.8	78.7	75.5	1.10	20.40	20.40	20.10	19.80
8	4	76	FJ	13.6	---	16.0	98.8	---	95.2	1.45	16.10	16.10	16.00	15.70
9	1	70/76	ID2W	22.1	---	22.1	77.9	---	77.7	1.05	36.70	36.60	36.50	36.20
9	2	70/76	ID2B	13.5	13.5	13.4	85.2	85.1	86.4	1.05	15.00	14.80	14.50	14.00
9	3	70/76	ID2W	16.3	15.1	15.4	82.2	90.1	87.9	1.23	16.70	16.70	16.60	16.50
10	1	70/76	ID2W	14.7	---	14.1	85.8	---	89.7	1.24	31.45	31.40	31.30	30.95
10	2	70/76	ID2B	12.5	12.5	13.4	82.7	83.0	76.5	1.19	7.66	7.46	7.22	6.80
11	1	90	ID2W	14.9	15.2	15.3	100.8	98.6	97.8	1.57	12.50	12.30	12.10	11.60
11	2	90	BCBC	13.6	13.0	13.7	75.9	79.6	75.3	1.05	15.30	15.10	14.80	14.30
11	3	90	BCBC	---	---	---	---	---	---	---	14.90	14.80	14.60	14.20
12	1	81	ID2W	15.9	15.3	15.6	82.2	85.6	83.8	1.20	9.56	9.49	9.41	9.17
12	2	81	BCBC	10.8	11.2	10.9	86.4	82.9	84.8	1.25	3.65	3.60	3.54	3.41
12	3	81	LEVEL	12.0	10.7	11.3	74.6	84.8	80.2	1.23	13.10	13.00	12.90	12.60
13	1	81	ID2W	15.6	---	15.6	79.4	---	79.4	1.21	8.86	8.81	8.60	8.33
13	2	81	ID2B	11.2	10.5	10.9	84.9	90.9	86.8	1.33	3.90	3.87	3.81	3.69
13	3	81	ID2B	13.3	13.3	13.6	69.5	69.1	67.4	1.00	3.86	3.83	3.79	3.68
13	4	81	ID2W	15.5	---	16.9	90.5	---	88.8	1.48	---	---	---	---

"---" Insufficient Material for Testing

Table 12. (Cent) Project Core Test Data (C7-C11) - VMA/VFA/Creep - All Courses

SITE	LYR	SR	MIX TYPE	VMA GTM	VMA ROT	VMA PINE	VFA GTM	VFA ROT	VFA PINE	GSI	CREEP (0.0001 INCH) 60 MIN	45 MIN	30 MIN	15 MIN
14	1	81	ID2W	15.3	14.9	14.9	89.2	91.8	91.7	1.39	9.49	9.38	9.25	8.99
14	2	81	ID2B	12.4	12.1	12.2	83.8	86.2	85.4	1.35	4.83	4.70	4.51	4.19
14	3	81	ID2W	---	---	---	---	---	---	---	9.18	9.09	8.99	8.75
14	4	81	ID2W	---	---	---	---	---	---	---	22.8	22.7	22.5	22.4
14	5	81	ID2B	---	---	---	---	---	---	1.00	16.4	16.15	15.7	14.8
15	1	78	ID2W	12.1	12.0	12.7	117.4	118.5	111.6	1.21	11.31	11.24	11.18	10.99
15	2	78	ID2B	15.7	15.1	15.5	54.9	57.8	55.8	1.22	11.06	11.00	10.78	10.41
16	1	78	ID2W	16.2	14.1	15.7	78.3	91.1	80.3	1.38	10.94	10.83	10.62	10.27
16	2	78	ID2B	11.5	11.6	12.7	83.2	82.8	74.7	1.31	9.65	9.48	9.30	8.98
17	1	81	ID2W	15.9	15.7	16.5	82.7	83.8	79.2	1.11	10.30	10.20	10.00	9.72
17	2	81	ID2B	11.0	11.1	12.0	75.7	74.6	68.2	1.17	4.09	4.01	4.01	3.97
17	3	81	LEVEL	---	---	---	---	---	---	---	6.44	6.4	6.37	6.19
18	1	81	ID2W	14.5	13.8	14.4	89.2	94.3	89.7	1.67	9.42	9.32	9.22	8.99
18	2	81	ID2B	12.1	11.7	13.3	93.7	98.1	84.1	1.30	7.93	7.85	7.70	7.42
18	3	81	BCBC	12.6	12.2	13.0	83.9	86.8	80.6	1.22	26.35	26.00	25.40	24.30
19	1	222	ID2W	16.6	15.8	16.1	83.3	88.3	86.1	1.23	10.74	10.67	10.57	10.33
19	2	222	ID2W	17.8	16.6	17.3	79.8	86.5	82.7	1.12	7.14	7.06	7.01	6.85
19	3	222	ID2B	13.3	12.4	13.1	77.3	83.6	78.7	1.11	13.40	13.30	13.10	12.60

"---" Insufficient Material for Testing

Table 12. (Cent) Project Core Test Data (C7-C11) - VMA/VFA/Creep - All Courses

SITE	LYR	SR	MIX TYPE	VMA GTM	VMA ROT	VMA PINE	VFA GTM	VFA ROT	VFA PINE	GSI	CREEP (,0.0001 INCH) 60 MIN	45 MIN	30 MIN	15 MIN
20	1	222	ID2W	15.7	14.6	---	82.0	89.4	---	1.06	9.99	9.89	9.82	9.65
20	2	222	ID2B	12.9	12.9	14.0	76.8	76.8	70.3	1.05	4.26	4.25	4.24	4.20
20	3	222	LEVEL	16.1	---	---	91.7	---	---	---	19.45	19.40	19.20	18.85
22	1	76	ID2W	14.8	14.1	14.8	89.7	95.4	90.0	1.46	16.95	16.65	16.25	15.40
22	2	76	---	11.7	11.4	11.8	95.3	97.8	94.5	1.37	7.07	6.99	6.81	6.53
22	3	76	ID2W	13.7	13.8	13.9	97.4	96.9	96.4	1.88	9.20	9.11	8.86	8.51
23	1	76	ID2W	14.6	14.8	14.7	89.9	88.2	89.2	1.64	9.17	9.06	8.85	8.43
23	2	76	ID2B	11.9	13.1	12.4	92.5	82.6	89.2	1.07	5.44	5.36	5.27	5.09
23	3	76	ID2B	12.9	13.3	13.2	85.0	82.2	83.0	1.92	14.08	13.58	12.94	11.87
24	1	76	ID2W	14.5	14.6	14.7	93.2	91.9	91.4	1.78	13.47	13.33	13.30	12.99
24	2	76	ID2B	11.5	11.4	11.4	84.2	84.6	85.2	1.56	---	---	---	---
25	1	11	ID2W	17.3	16.6	17.0	80.0	83.9	81.6	1.12	15.30	15.20	14.90	14.55
25	2	11	SP B	12.1	12.1	12.4	71.7	71.7	70.0	1.33	4.97	4.85	4.64	4.33
26	1	83	ID2W	17.0	15.1	14.8	76.9	90.0	90.2	1.03	7.06	7.05	6.96	6.78
26	2	83	ID2B	12.4	13.7	13.3	85.0	76.1	78.5	1.10	7.13	7.07	7.00	6.83
27	1	83	ID2W	14.4	---	14.8	92.0	---	88.7	1.65	10.25	10.10	9.89	9.51
27	2	83	ID2B	11.0	11.2	12.0	95.9	94.3	87.1	1.58	12.70	12.50	12.20	11.65

"---" Insufficient Material for Testing

Table 12. (Cent) Project Core Test Data (C7-C11) - VMA/VFA/Creep - All Courses

SITE	LYR	SR	MIX TYPE	VMA GTM	VMA ROT	VMA PINE	VFA GTM	VFA ROT	VFA PINE	GSI	CREEP (0.0001 INCH) 60 MIN	45 MIN	30 MIN	15 MIN
28	1	22	ID3W	14.2	13.4	13.8	85.3	90.9	88.4	1.25	5.31	5.27	5.22	5.10
28	2	22	LEVEL	15.1	---	14.2	78.5	---	84.4	1.04	10.10	10.00	9.96	9.83
28	3	22	ID2W	14.8	---	14.4	88.2	---	91.0	1.28	11.60	11.50	11.45	11.20
28	4	22	ID2B	7.3	8.2	8.7	---	---	---	1.27	9.75	9.52	9.15	8.52
29	1	11	ID3W	14.2	13.8	14.1	78.4	80.6	78.6	1.14	6.42	6.35	6.23	6.02
29	2	11	ID2B	15.7	16.5	17.6	102.2	96.2	89.4	1.36	19.95	19.75	19.30	18.45
30	1	11	ID2W	14.1	13.9	14.1	93.8	95.3	94.0	1.56	11.97	11.85	11.64	11.29
30	2	11	ID2B	14.2	14.3	14.8	91.4	90.4	87.1	1.43	12.25	12.10	11.90	11.49
31	1	220	ID2W	16.4	16.1	17.3	80.9	82.9	76.0	1.09	11.90	11.85	11.70	11.53
31	2	220	ID2B	13.4	13.6	14.2	89.7	88.7	84.5	1.34	9.75	9.68	9.54	9.34
32	1	70	ID2W	14.4	14.0	14.3	84.8	87.8	85.2	1.73	7.24	7.20	7.08	6.92
32	2	70	ID2B	11.3	11.8	11.4	82.3	77.9	81.4	1.48	10.05	9.98	9.78	9.46
33	1	70	ID2W	14.0	13.3	13.5	86.8	92.1	90.6	1.58	9.63	9.58	9.51	9.36
33	2	70	ID2B	11.4	11.1	11.5	81.7	83.5	80.7	1.48	15.50	15.45	15.20	14.80
34	1	70	ID2W	14.9	14.8	14.9	88.7	88.9	88.5	1.57	13.35	13.30	13.15	12.85
34	2	70	ID2W	14.6	14.3	14.9	89.2	92.0	87.5	1.23	19.10	19.10	19.00	18.85
34	3	70	LEVEL	16.8	---	16.6	95.3	---	96.7	1.69	49.70	49.50	49.25	48.60
34	4	70	ID2B	15.7	14.8	16.0	78.5	82.9	76.0	1.08	16.25	16.05	15.70	15.10

"---" Insufficient Material for Testing

Table 12. (Cent) Project Core Test Data (C7~C11) - VMA/VFA/Creep - All Courses

SITE	LYR	SR	MIX TYPE	VMA GTM	VMA ROT	VMA PINE	VFA GTM	VFA ROT	VFA PINE	CREEP (0.0001 INCH) GSI	60 MIN	45 MIN	30 MIN	15 MIN
35	1	80	ID2W	15.0	14.4	15.0	82.8	86.7	83.1	1.33	6.87	6.79	6.76	6.63
35	2	80	ID2B	12.6	12.5	13.1	75.5	76.7	72.5	1.07	5.48	5.40	5.35	5.29
35	3	80	BCBC	12.0	11.6	12.6	73.6	76.1	69.5	1.10	6.31	6.18	5.99	5.71
"---" Insufficient Material for Testing														
Layer 1														
Average:				15.19	14.45	15.02	86.06	90.00	86.89	1.35	11.90	11.80	11.65	11.37
Std Deviation:				1.589	1.059	1.663	8.266	6.735	6,704	0.240	6.179	6.172	6.162	6.118
Layer 2														
Average:				12.73	12.50	13.15	84.65	84.44	81.48	1.26	11.27	11.14	10.95	10.61
Std Deviation:				2.160	1.715	2.089	8.592	8.517	7.902	0.148	10.120	10.099	10.043	9.941

Table 13. Rut Depth Data (Cores C7-C11) in Inches

SITE NO.	COUNTY	SR	LAYER NO.	NEW SURFACE RUT DEPTH (in)	NEW MAX. RUT IN LAYER (in)	SURFACE RUT DEPTH (500 FT) (in)	PAVEMENT AGE	SUBJECTIVE RATING	TOTAL ESALS (x10EE6)	RUT DEPTH 500 FT/ SQRT(TESALS)
1	JEFFERSON	80	1	0.076	0.076	0.150	4	E	3.87	0.076
1	JEFFERSON	80	2	---	0.000	---	---	---	---	---
1	JEFFERSON	80	3	---	0.000	---	---	---	---	---
2	ALLEGHENY	279	1	0.593	0.196	0.325	3	F	2.31	0.214
2	ALLEGHENY	279	2	---	0.397	---	---	---	---	---
3	ALLEGHENY	279	1	0.243	0.000	0.400	5	F	3.71	0.208
3	ALLEGHENY	279	2	---	0.243	---	---	---	---	---
4	ALLEGHENY	279	1	0.551	0.122	0.125	5	E	3.71	0.065
4	ALLEGHENY	279	2	---	0.429	---	---		---	---
5	WESTMORELAND	30	1	0.312	0.052	N/A	3	F	0.48	---
5	WESTMORELAND	30	2	---	0.260	---	---	---	---	---
6	WESTMORELAND	30	1	0.262	0.015	0.300	4	G	0.66	0.369
6	WESTMORELAND	30	2	---	0.000	---	---		---	---
6	WESTMORELAND	30	3	---	0.246	---		---	---	---
7	WASHINGTON	70	1	0.556	0.416	0.650	3	P	3.08	0.370
7	WASHINGTON	70	2	---	0.000	---	---		---	---
7	WASHINGTON	70	3	---	0.140	---	---	---	---	---

Table 13. (Cent) Rut Depth Data (Cores C7-C11) In Inches

SITE NO.	COUNTY	SR	LAYER NO.	NEW SURFACE RUT DEPTH (In)	NEW MAX. RUT DEPTH IN LAYER (In)	SURFACE RUT DEPTH (500 FT) (in)	PAVEMENT AGE	SUBJECTIVE RATING	TOTAL TESALS (X10 E6)	RUT DEPTH 500 FT/ SQRT(TESALS)
8	LAWERANCE	70	1	N/A	N/A	N/A	18	E	17.88	---
8	LAWERANCE	70	2	---	N/A	---	---	---	---	---
8	LAWERANCE	70	3	---	N/A	---	---	---	---	---
8	LAWERANCE	70	4	---	N/A	---	---	---	---	---
9	BEDFORD	70/76	1	0.683	0.628	0.700	19	F	34.31	0.120
9	BEDFORD	70/76	2	---	0.064	---	---	---	---	---
9	BEDFORD	70/76	3	---	0.006	---	---	---	---	---
9	BEDFORD	70/76	4	---	-0.109	---	---	---	---	---
10	SOMERSET	70/76	1	0.371	0.262	0.250	9	G	23.53	0.052
10	SOMERSET	70/76	2	---	0.109	---	---	---	---	---
11	ERIE	90	1	0.550	0.526	1.650	---	P	---	---
11	ERIE	90	2&3	---	0.024	---	---	---	---	---
12	LUZERNE	81	1	0.186	0.114	0.100	3	E	2.91	0.059
12	LUZERNE	81	2	---	0.000	---	---	---	---	---
12	LUZERNE	81	3	---	0.072	---	---	---	---	---
12	LUZERNE	81	4	---	0.000	---	---	---	---	---
13	LUZERNE	81	1	0.168	0.110	0.200	3	G	2.91	0.117
13	LUZERNE	81	2	---	0.000	---	---	---	---	---
13	LUZERNE	81	3	---	0.058	---	---	---	---	---

Table 13. (Cent) Rut Depth Data (Cores C7-C11) In Inches

SITE NO.	COUNTY	SR	LAYER NO.	NEW SURFACE RUT (in)	NEW MAX. RUT DEPTH IN LAYER (in)	SURFACE RUT OEPTH (500 FT) (in)	PAVEMENT AGE	SUBJECTIVE RATING	TOTAL TESALS (x10EE6)	RUT OEPTH 500 FT/ SQRT(TESALS)
14	LACKAWANA	81	1	0.411	0.306	0.350	4	G	2.46	0.223
14	LACKAWANA	81	2	---	0.105	---	---	---	---	---
14	LACKAWANA	81	3	---	0.000	---	---	---	---	---
15	LEHIGH	78	1	0.300	0.197	0.200	3	G	3.60	0.105
15	LEHIGH	78	2	---	0.103	---	---	---	---	---
16	LEHIGH	78	1	0.343	0.343	0.400	4	F	4.59	0.187
16	LEHIGH	78	2	---	0.000	---	---	---	---	---
17	SCHUYKILL	81	1	0.144	0.144	0.200	3	G	1.67	0.155
17	SCHUYKILL	81	2	---	0.000	---	---	---	---	---
18	SCHUYKILL	81	1	1.627	0.705	0.650	7	F	2.84	0.386
18	SCHUYKILL	81	2	---	0.384	---	---	---	---	---
18	SCHUYKILL	81	3	---	0.538	-	---	---	---	---
19	BERKS	222	1	0.393	0.184	0.350	5	G	2.83	0.208
19	BERKS	222	2	---	0.209	---	---	---	---	---
19	BERKS	222	3	---	0.000	---	---	---	---	---
20	BERKS	222	1	0.212	0.212	0.225	4	E	1.67	0.174
20	BERKS	222	2	---	0.000	---	---	---	---	---
20	BERKS	222	3	---	0.000	---	---	---	---	---

Table 13. (Cent) Rut Depth Data (Cores C7-C11) In Inches

SITE NO.	COUNTY	SR	LAYER NO.	NEW SURFACE RUT DEPTH (in)	NEW MAX. RUT IN LAYER (In)	SURFACE RUT DEPTH (500 FT) (in)	PAVEMENT AGE	SUBJECTIVE RAT ING	TOTAL ESALS (x10EE6)	RUT DEPTH 500 FT/ SQRT(TESALS)
22	MONTGOMERY	76	1	0.487	0.145	0.400	5	F	2.56	0.250
22	MONTGOMERY	76	2	---	0.000	---	---	---	---	---
22	MONTGOMERY	76	3	---	0.342	---	---	---	---	---
23	MONTGOMERY	76	1	0.329	0.102	0.400	4	F	2.35	0.261
23	MONTGOMERY	76	2	---	0.227	---	---	---	---	---
23	MONTGOMERY	76	3	---	0.000	---	---	---	---	---
24	MONTGOMERY	76	1	0.117	0.112	0.100	2	E	1.29	0.088
24	MONTGOMERY	76	2	---	0.005	---	---	---	---	---
25	PERRY	11	1	0.333	0.068	0.225	14	E	3.39	0.122
25	PERRY	11	2	---	0.265	---	---	---	---	---
26	YORK	83	1	0.060	0.060	0.000	2	E	1.46	0.000
26	YORK	83	2	---	0.000	---	---	---	---	---
27	YORK	83	1	0.795	0.436	0,550	5	F	4.44	0.261
27	YORK	83	2	---	0.359	---	---	---	---	---
28	DAUPHIN	22	1	0.308	0.308	0.200	2	E	0.63	0.252
28	DAUPHIN	22	2	---	0.000	---	---	---	---	---
28	DAUPHIN	22	3	---	0.000	---	---	---	---	---
28	DAUPHIN	22	4	---	0.000	---	---	---	---	---
28	DAUPHIN	22	5	---	0.000	---	---	---	---	---

Table 13. (Cent) Rut Depth Data (Cores C7-C11) in Inches

SITE NO.	COUNTY	SR	LAYER NO.	NEW SURFACE RUT DEPTH (in)	NEW MAX. RUT IN LAYER (in)	SURFACE RUT DEPTH (500 FT) (in)	PAVEMENT AGE	SUBJECTIVE RATING	TOTAL ESALS (x1OEE6)	RUT DEPTH 500 FT/ SQRT(TESALS)
29	CUMBERLAND	11	1	0.317	0.239	0.350	2	F	0.34	0.600
29	CUMBERLAND	11	2	---	0.078	---	---	---	---	---
30	CUMBERLAND	11	1	1.664	1.001	1.300	6	P	3.90	0.658
30	CUMBERLAND	11	2	---	0.663	---	---	---	---	---
31	BLAIR	220	1	0.200	0.140	0.250	3	F	0.60	0.323
31	BLAIR	220	2	---	0.060	---	---	---	---	---
31	BLAIR	220	3	---	0.000	---	---	---	---	---
32	FULTON	70	1	1.038	0.467	0.200	2	G	1.52	0.162
32	FULTON	70	2	---	0.571	---	---	---	---	---
33	FULTON	70	1	0.232	0.185	0.300	2	F	1.52	0.243
33	FULTON	70	2	---	0.047	---	---	---	---	---
34	BEDFORD	70	1	0.183	0.183	0.275	4	G	1.86	0.202
34	BEDFORD	70	2	---	0.000	---	---	---	---	---
34	BEDFORD	70	3	---	0.000	---	---	---	---	---
34	BEDFORD	70	4	---	0.000	---	---	---	---	---

Table 13. (Cent) Rut Depth Data (Cores C7-C11) In Inches

SITE NO.	COUNTY	SR	LAYER NO.	NEW SURFACE RUT DEPTH (in)	NEW MAX. RUT IN LAYER (in)	SURFACE RUT DEPTH (500 FT) (in)	PAVEMENT AGE	SUBJECTIVE RATING	TOTAL ESALS (x1 OEE6)	RUT DEPTH 500 FT/ SQRT(TESALS)
35	JEFFERSON	80	1	0.036	0.036	0.000	2	E	1.90	0.000
35	JEFFERSON	80	2	---	0.000	---	---	---	---	---
35	JEFFERSON	80	3	---	0.000	---	---	---	---	---
Layer 1										
Average:				0.427	0.245	0.367	5.0		4.45	0.210
Std Deviation:				0.376	0.218	0.334	4.2		6.98	0.149
Layer 2										
Average:				N/A	0.143	N/A	N/A		N/A	N/A
Std Deviation:				N/A	0.183	N/A	N/A		N/A	N/A

Table 14. Visual Observations and General Notes

Site No.	County	SR	Max. Surface Rut Depth (500')	Pavement Age (1990)	Subjective Rating	Figure (Photo) No.	Notes
1	Jefferson	80	0.150	4	E	49	1-80 (W.B.), site on long up grade E. of Hazen exit, excellent job, in-place voida 4.0% in wearing ● nd 5.2% in binder, no natural sand in both courses.
2	Allegheny	279	0.325	3	F	50	Pittsburgh parkway (W.B.), site on long up grade, rutting gets wome going uphill ● way from the coring site, middle lane (of the 3 W.B. lanes) has mom rotting due to construction. Binder course has #467 coarse aggregate, in-place voida 1.9% in wearing and 1.5 % in binder course, 25% natural sand in fine aggregate of both courses, ● ccordhg to rut profiles the binder course is the major contributor to rotting surface.
3	Allegheny	279	0.400	5	F	51	Pittsburgh Parkway (E.B.), site on long up grade, more rotting in the middle lane (of the 3 E.B. lanes) because of traffic backup before the exit. ID-2 wearinghas absorptive gravel ● ggregate (water ● bsorption more than 2.5 %), in-place voida 1.4% in wearing and 2.4% in binder course, 100% natural sand used ● a fine ● ggregate in both courses, ● ccordng to rut profiles the binder course is the main contributor to surface rutting.
4	Allegheny	279	0.312	5	E	52	Pittsburgh Parkway (lV.B.), just ● croaa from Site #3 ● bove, however different mix in the wearing course, rutting occurring in 2 knea of the 4 W.B. lanes, cite on long up grade, in-place voids 2.4% in wearing ● nd 1.5% in binder course, 75% natural sand in wearing course and 100% natural sand in the binder course, ● ccodhrg to rut profiles the binder course is the major contributor to surface rotting.
5	Westmoreland	30	0.300	3	F	53,54	Route 30 (E.B. lanes), site on long up-grade, 75-blow Marshall design (3.0% voids), this section had 2-way hot weather traffic ● fter construction, mix ruts on long up grades ● ml when traffic is channelized, in-place voida 3.1 % in wearing and 1.8% in binder course, 25% natural sand in the fine aggregate of both courses, according to the mt profile the binder course is the major contributor to surface rotting.
6	Westmoreland	30	0.300	4	G	55	Route 30 (W.B. lanes), site on long up grade, 50-blowMarshall design (3.1% voids), this section had 2-way traffic but only during winter, in-place voida 3.0% in wearing ● nd 3.5 % in binder course, 50% natural sand in the fine aggregate of both courses, according to rut profiles rotting ● ppears to be in the levelling course (Layer 3).

Site No.	County	SR	Max. Surface Rut Depth (s00')	Pavement Age (1990)	Subjective Rating	Figure (Photo) No.	Notes
7	Washington	70	06s0	3	P	s6	I-70 (E.B. lanes) near W. VA. border between Exits 2 and 3, long steep up grade, cores taken from area which had rutted earlier, milled off and replaced in 1987, wearing and binder designed with 75 blows (3.5-3.6% voids), was a semi-heavy duty design, in-place voids 2.5% in wearing course, 24% natural sand in the fine aggregate of both courses.
8	Lawrence	76 (T.P)	0.180	18	E	—	Very old Pennsylvania Turnpike section, Maximum surface rut depth of 0.180" was measured in 1989, now the pavement has been milled off and overlayed, 65-blow Marshall design, in-place voids 0.9% in wearing course of this 18 year old overlay.
9	Bedford	70/76 (T.P)	0.700	19	F	S7	Very old Pennsylvania Turnpike section, mild up grade on curve, rutting primarily in slow lane, minimal rutting in the passing lane after 19 years, 65-blow Marshall design, in-place voids 1.9% in wearing and 2.0% in binder course of this 19-year old overlay.
10	Somerset	70/76 (T.P.)	0.250	9	G	—	Pennsylvania Turnpike, site on long up grade, cores taken from the truck (third) lane, which was added 9 years ago (10" Bit. Conc. Base course, 2" binder and 1" wearing course), 65-blow Marshall design, in-place voids of 0.6% in wearing and 4.0% in binder course, no natural sand in the wearing course, according to rut profile some rutting has taken place in the binder course as well.
11	Erie	90	1.6s0	3	P	S8	I-90 (W.B. lanes) near N.Y. border, coring site on a slight down grade, excessive rutting in the traffic lane, no significant rutting in the passing lane; old wearing course had been milled off, a seal coat was applied and then a heavy tack coat applied before placing the new wearing course; possible slippage due to tack coat; daily 50-blow Marshall data shows air voids less than 3.0% consistently, in-place voids almost 0% in wearing and 3.7% in old binder course.
12	Luzerne	81	0.100	3	E	S9	I-81 (N.B. lanes), site on very long up grade, mix design same as Site #13 (same contract), binder course had low air voids (more than 97% of T.M.D.) at the time of construction, in-place voids 4.9% in wearing and 2.0% in binder course, 25% natural sand in fine aggregate of wearing course and none in binder course.
13	Luzerne	81	0.200	3	G	60	I-81 (S.B. lanes), site on down grade, 24' wide paver used, some segregation problems experienced, in-place voids 2.4% in wearing and 0.4% in binder course, 25% natural sand in the fine aggregate of wearing and none in binder course.

Table 14 (Continued). Visual Observations and General Notes

Site No.	County	SR	Max. Surface Rut Depth (500')	Pavement Age (1990)	Subjective Rating	Figure (Photo) No.	Notes
14	Lackawana	81	0.350	4	G	61	1-81 (S.B. lanes), core site on long up grade ● nd also on curve, in-place voida 2.3 % in wearing ● nd 4.0% in binder course, 100% manufactured eand in both courses.
15	Lehigh	78	0.200	3	G	62	1-78 (W.B. lanes) just across from Site #16, core site on ● down grade, ● cphalt content acme as Site #16, slow lane had channelized traffic and is flushing in wheel paths, in-place voida 3 .0% in wearing and 3.7% in binder course, 100% manufactured aand in both courses.
16	Lehigh	78	0.400	4	F	63	I-78 (E.B. lanes), site on ● relatively flat area, no flushing, So-blow Marshall design. in-place voids 3.9 % in both courses, no natural sand in wearing course, 50% natural sand in the fine aggregate of binder course.
17	Schuykill	81	0.200	3	G	64	1-81 (S.B. lanes), site on mild up grade, no flushing, mix looks dry (possibly due to grovel aggregate), aawed & sealed jointa look good, some water seeping out from center line joint, in-place voida 3.1% in wearing and 4.0% in binder course, 100% natural aand in both courses.
18	Schuykill	81	0.650	7	F	65,66	1-8 I (N.B. lanes), site on ● very long up grade north of Ravine, excessive rotting in the slow lane, minimal rotting in the passing lane or S.B. lanes going down hill, no flushing, 100% flexible pavement, rotting 1.6279 ● t the worst site, in-place voida (average) 2.3% in we-wing course ● nd 1.7% in binder course, no natural aand in botl courses, acceding to rut profiles significant rotting has taken place in binder course ● nd base courses as well.
19	Berks	222	0.350	5	G		Route 222 (E.B. lane), 3-lane highway in rural ● res, relatively flat terrain, rotting near the intersections approaching 1/2", in-place voida 4.3% in wearing and 3.6% in binder course, 100% manufactured rend in both courses, according to rut profiles both binder and wearing courses are contributing to rutting.
20	Berks	222	0.223	4	E	67	Route 222, 4-lane divided highway with N.J. barrier, inside the Town of Reading, relatively flat terrain, 100% crushed limestone in both binder and wearing courses, in-place voids 2.7% in wearing and 2.1% in binder come, 100% manufactured sanc in both courses.

Table 14 (Continued). Visual Observations and General Notes

Site No.	County	SR	Max. Surface Rut Depth (500')	pavement Age (1990)	Subjective Rating	Figure (Photo) No.	Notes
22	Montgomery	76	0.400	5	F	68	Schuykill Expressway (Section 100) E.B. lanes, mild up grade, Just off Pennsylvania Turnpike in Philadelphia, 4-lanes with tall median divider, eomc rutting in the passing lane ● s wall, fast moving traffic, ● vemge in-place voids 3.1% in weering ● nd 1.4% in binder course, 50% natural eand in the fine aggregate of wearing ● nd 45% in the binder course mix.
23	Montgomery	76	0.400	4	F	69	Schuykill Expressway (Section 300), E.B. lanes, relatively flat terrain, ● vemge in-place voids 2.6% in wearing ● nd 1.7% in binder course, 50% natural sand in the fine aggregate of wearing and 45% in the binder course mix, according to rut profiles binder course is the major contributor to the surface rotting.
24	Montgomery	76	0.100	2	E	70	Schuykill Expressway (section 420), W.B. lanes, 3-lanes W. B., coring site in outside lane which is merging lane ● nd carries relatively less traffic, very alight up grade, rutting in the middle lane estimated to be 1/4", ● vemge in-place voids 3.8% in wearing course ● nd 2.6% in binder course, 20% natural eand in the fine aggregate of both courses, heavy duty mix design.
25	Perry	11	0.225	14	E	71	Route 11 near Amity Hall, 3-lane highway, ● lmoat level terrain, has a special binder course (42% pace. 1/2") above PCC pavement, ideal pavement with minimal rotting ● fter 14 yearn, in-place voids 3.6% in wearing ● nd 4.7% in binder course, 100% manufactured send in the binder mix, ● cctxdhg to rut profiles binder course has contributed most to the surface rotting.
26	York	83	0.000	2	E	72	I-83 near Mile Pod 5, mostly flat terrain, heavy duty mix design, surface ● ppeared black with no aggregate exposed in 1989, looks excellent w far, in-place voids 7.4% in wearing ● nd 5.4% in binder, 100% manufactured sand in both courses, heavy duty mix design.
27	YO*	83	0.550	5	F	73	I-83 between Harrisburg and York (S.B. lanes), site on a long up grade, rotting primarily in slow lane, gravel ● ggregate mix looks dry on the edge of slow lane ● nd in the passing lane, in-place voids 2.5% in wearing and 2.9% in binder course, ● ccordbg to rut profiles binder course is ● !eo contributing significantly to the surface rotting.
28	Dauphin	22	0.200	2	E	74,75	Route 22 in Dauphin Born, 3-lane highway, almost level terrain, ID-3 wearing course with AC-30 asphalt cement and significant amount of + 1/2" aggregate, some aggregation visible, in-place voida 5.1% in ID-3, 100% manufactured sand in mix.