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
29	Cumberland	11	0.350	2	F	76	Route 11 (Camp Hill By-pass) S.B. lanes, site on a mild long up grade, ID-3 wearing course flushing badly, rotting more pronounced near intersections, in-place voida 2.6% in ID-3 course.
30	Cumberland	11	1.300	6	P	77, 78	Route 11 (between Mechanicsburg ● nd Carlisle), W.B. lanes, site on a flat terrain, excessive rotting and shoving in slow lanes, unfilled core holes were getting smaller due to plastic flow of the mix inwarda, heavy truck traffic slowing down to get on Pennsylvania Turnpike, in-place voida 2.9% in wearing course, ● ccord@ to rut profiles the binder course ia ● lao contributing significantly to the surface rotting.
31	Blair	220	0.250	3	F	79	Route 220, site on ● mild up grade, rotting ia more pronounced near the intersections ● s reported later, in-place voida 5.9% in wearing course, 100% manufactured sand ir the fine aggregate of wearing course.
32	Fulton	70	0.200	2	G	80	1-70 (E.B. lanes), site on ● long steep up grade, minimal rutting downhill, heavy duty mix design (4.2% voids), in-place voida 4.4% in wearing ● nd 2.5% in binder course, 100% manufactured sand in both courses, ● ccordhg to the rut profiles the binder comae in a major contributor to the surface rotting.
33		70	0.300	2	F	81	1-70 (W.B. lanes), site on ● long mild up grade, heavy duty mix name ● s Site #32, minus 200 content during production higher than Site #32, in-place voida 4.9% in wearing ● nd 3.6 % in binder course, 100% manufactured sand in both courses.
34	Bedford	70	0.275	4	G	82	1-70 (just south of Pennsylvania Turnpike), site on ● down grade, no flushing, mix ruts near intersections, in-place voida 2.5% in wearing come, 100% manufactured sand in both courses.
35	Jefferson	80	0.000	2	E	83	1-S0 (W.B. lanes), 2 miles E. of Corsica Exit, core site on amoderate up grade, these W.B. lanes did not have 2-way traffic (built ● tlar E.B. lanes), even E.B. lanes do not chow any significant rotting, appears like ● n excellent job so far, in-place voida 5.8% in wearing ● nd 5.9% in binder course, 100% manufactured send in both courses, heavy duty mix design.

Table 15. Summary of Correlation Analysis for General and Mix Design Variables

Independent Variable	Correlation With Rut Depth/SQRT TESAL's R value	Best Correlation R value	Dependent Variable
		Layer 1	
TEMPERATURE	0.1576	0.3585	Rut in Layer/SQRT TESAL's
ESAL ' S	-0.2762		
VTM	0.0415 *	0.3984 *	Rut in Layer/SQRT TESAL's
VMA	-0.2308	0.3162 *	Rut in Layer
STABILITY	-0.3167	0.3992 *	Max Surface/SQRT TESAL's
FLOW	-0.1384 *	-0.1370 *	Max Surface/SQRT TESAL's
STABILITY/FLOW	-0.2127 *	-0.2945 *	Max Surface/SQRT TESAL's
BEARING CAPACITY	-0.1996 *	-0.2797 *	Max Surface/SQRT TESAL's
# BLOWS PER SIDE	-0.1916		
PASSING #8 SIEVE	-0.4905		
PASSING #200 SIEVE	0.0973		
ASPHALT CONTENT	-0.2979		
		Layer 2	
TEMPERATURE	0.1576	0.2301	Max Surface Rut Depth
ESAL ' S	-0.2762		
VTM	0.0727 *	0.0921 *	Max Surface/SQRT TESAL's
VMA	0.0949 *		
STABILITY	-0.1941	-0.2662	Max Surface Rut Depth
FLOW	-0.3746 *	-0.4226 *	Avg Surface Rut Depth
STABILITY/FLOW	0.0370 *	-0..1584	Max Surface Rut Depth
BEARING CAPACITY	0.0573 *	-0.1454	Max Surface Rut Depth
# BLOWS PER SIDE	-0.0287	-0.2344	Rut in Layer
PASSING #8 SIEVE	-0.1922		
PASSING #200 SIEVE	-0.1142		
ASPHALT CONTENT	0.0313		

* = Reverse relationship

Table 16. Summary of Correlation Analysis for Construction Variables

Independent Variable	Correlation With Rut Depth/SQRT TESAL's R value		Best Correlation R value		Dependent Variable
			Layer 1		
VOIDS TOTAL MIX	-0.3207				
ASPHALT CONTENT	-0.2289	*	-0.2519	*	Max Surface/SQRT TESAL's
PASSING #8 SIEVE	-0.5258				
PASSING #200 SIEVE	-0.1231	*	-0.1817	*	Max Surface/SQRT TESAL's
PASSING 1/2" SIEVE	N/A		N/A		
ASPHALT CONTENT CI	0.3953		0.6268		Max Surface/SQRT TESAL's
PASSING #8 SIEVE CI	-0.2249		-0.2731		Avg Surface Rut Depth
PASSING #200 SIEVE CI	0.0187		0.2741		Avg Surface Rut Depth
PASSING 1/2" SIEVE CI	N/A		N/A		
			Layer 2		
VOIDS TOTAL MIX	-0.1988		-0.3110		Avg Surface Rut Depth
ASPHALT CONTENT	0.2300				
PASSING #8 SIEVE	-0.1245				
PASSING #200 SIEVE	-0.2096	*	-0.2573	*	Rut in Layer/SQRT TESAL's
PASSING 1/2" SIEVE	0.1082		0.2320		Avg Surface Rut Depth
ASPHALT CONTENT CI	-0.0321	*	-0.3174	*	Rut in Layer
PASSING #8 SIEVE CI	-0.2390		-0.2986		Max Surface/SQRT TESAL's
PASSING #200 SIEVE CI	-0.1067	*	-0.2524	*	Max Surface/SQRT TESAL's
PASSING 1/2" SIEVE CI	0.1169		-0.3332	*	Rut in Layer/SQRT TESAL's

* = Reverse relationship

Table 17. Summary of Correlation Analysis for Post Construction Longitudinal Variables (C1-C6)

Independent Variable	Correlation With Rut Depth/SQRT TESAL's R Value	Best Correlation R Value	Dependent Variable
		Layer 1	
ASPHALT CONTENT	-0.2434	-0.3184 *	Rut in Layer/SQRT TESAL's
ASPHALT CONTENT CI	0.3193		
PASSING 1/2" SIEVE	N/A	N/A	
PASSING 1/2" SIEVE CI	N/A	N/A	
PASSING #8 SIEVE	-0.6039	-0.6812	Avg Surface Rut Depth
PASSING #8 SIEVE CI	-0.4792		
PASSING #200 SIEVE	0.1556	0.1865	Rut in Layer/SQRT TESAL's
PASSING #200 SIEVE CI	0.1030	0.3542	Rut in Layer
PENETRATION	0.3197	0.3537	Avg Surface Rut Depth
VISCOSITY	-0.1497	-0.1686	Avg Surface Rut Depth
% CRUSHED FACES	-0.1500	0.1613 *	Rut in Layer/SQRT TESAL's
% NAT'L SAND	-0.1276 *	-0.3976 *	Rut in Layer/SQRT TESAL's
VOIDS IN FINE AGG	0.1448 *		
AVG VTM	-0.1856	-0.3817	Avg Surface Rut Depth
MIN VTM	-001710	-0.3544	Avg Surface Rut Depth
20th PCT'L VTM	-0.2133	-0.3998	Avg Surface Rut Depth

* = Reverse relationship

Table 17. (Cent) Summary of Correlation Analysis for Post Construction Longitudinal Variables (C1-C6)

Independent Variable	Correlation With Rut Depth/SQRT TESAL's R Value		Best Correlation R Value		Dependent Variable
			Layer 2		
ASPHALT CONTENT	0.6195				
ASPHALT CONTENT CI	0.1416		0.1858		Rut in Layer/SQRT TESAL's
PASSING 1/2" SIEVE	0.2806				
PASSING 1/2" SIEVE CI	0.1590		0.3139		Rut in Layer
PASSING #8 SIEVE	0.1289		0.1344		Avg Surface Rut Depth
PASSING #8 SIEVE CI	-0.0250		0.1428		Rut in Layer
PASSING #200 SIEVE	0.0783		-0.1937	*	Rut in Layer/SQRT TESAL's
PASSING #200 SIEVE CI	0.0041		-0.0720	*	Rut in Layer/SQRT TESAL's
PENETRATION	0.0060		0.1465		Max Surface Rut Depth
VISCOSITY	0.4219	*			
% CRUSHED FACES	-0.1037		0.1463	*	Rut in Layer
% NAT'L SAND	-0.0549	*	-0.1689	*	Rut in Layer/SQRT TESAL's
VOIDS IN FINE AGG	-0.4507				
AVG VTM	-0.3094		-0.3505		Avg Surface Rut Depth
MIN VTM	-0.3099		-0.3157		Rut in Layer
20th PCT'L VTM	-0.3421				

* = Reverse relationship

Table 18. Summary of Correlation Analysis for Post Construction Transverse Variables (C7-C11)

Independent Variable	Correlation With Rut Depth/SQRT TESAL's R Value	Best Correlation R Value	Dependent Variable
		Layer 1	
AVG VTM	-0.1813	-0.4309	Avg Surface Rut Depth
MIN VTM	-0.1268	-0.3638	Avg Surface Rut Depth
20th PCT'L VTM	-0.1260	-0.3568	Avg Surface Rut Depth
GTM VTM	-0.3733	-0.4457	Avg Surface Rut/SQRT TESAL's
ROTATING VTM	-0.1979	-0.4251	Avg Surface Rut Depth
STATIC VTM	-0.2072		
GTM VMA	-0.2778	-0.3150	Avg Surface Rut/SQRT TESAL's
ROTATING VMA	-0.1286	-0.1338	Rut in Layer
STATIC VMA	-0.1697	0.1710	Rut in Layer
GSI	0.4823		
CREEP	-0.1856	0.2878	Rut in Layer
GTM STABILITY	-0.3371	-0.3742	Max Surface Rut/SQRT TESAL's
GTM FLOW	0.5134	0.5736	Rut in Layer
GTM STAB/FLOW	-0.4861		
GTM BEARING CAPACITY	-0.4859		
STATIC STABILITY	-0.5266		
STATIC FLOW	0.3928	004959	Rut in Layer
STATIC STAB/FLOW	-0.5221		
STATIC BEARING CAP	-0.5108		
ROTATING STABILITY	-0.5130	-0.5361	Max Surface Rut/SQRT TESAL's
ROTATING FLOW	0.3770	0.5509	Rut in Layer
ROTATING STAB/FLOW	-0.4974		
ROTATING BEARING CAP	-0.4884		

* = Reverse relationship

Table 18. (Cent) Summary of Correlation Analysis for Post Construction Transverse Variables (C7-C11)

Independent Variable	Correlation With Rut Depth/SQRT TESAL's R Value		Best Correlation R Value		Dependent Variable
			Layer 2		
AVG VTM	-0.3347		-0.3925		Max Surface Rut Depth
MIN VTM	-0.1995		-0.2877		Max Surface Rut Depth
20th PCT'L VTM	-0.2749		-0.3504		Max Surface Rut Depth
GTM VTM	-0.4863		-0.6227		Avg Surface Rut/SQRT TESAL's
ROTATING VTM	-0.4569		-0.5658		Avg Surface Rut/SQRT TESAL's
STATIC VTM	-0.3564		-0.4107		Avg Surface Rut/SQRT TESAL's
GTM VMA	0.0691	*	0.2891	*	Avg Rut Depth
ROTATING VMA	0.0891	*	0.3321	*	Avg Surface Rut/SQRT TESAL's
STATIC VMA	0.1342	*	0.3827	*	Avg Surface Rut/SQRT TESAL's
GS I	0.4688				
CREEP	-0.0204	*	0.0893		Rut in Layer
GTM STABILITY	-0.2138				
GTM FLOW	0.1961		0.2299		Max Surface Rut Depth
GTM STAB/FLOW	-0.2417		-0.2475		Max Surface Rut Depth
GTM BEARING CAPACITY	-0.2348		-0.2407		Max Surface Rut Depth
STATIC STABILITY	-0.3388				
STATIC FLOW	-0.1858	*	-0.2845	*	Avg Surface Rut/SQRT TESAL's
STATIC STAB/FLOW	-0.1179		0.1557	*	Rut in Layer/SQRT TESAL's
STATIC BEARING CAP	-0.0830		0.1642	*	Rut in Layer/SQRT TESAL's
ROTATING STABILITY	-0.2788		-0.3053		Max Surface Rut Depth
ROTATING FLOW	0.1759		0.1823		Max Surface Rut/SQRT TESAL's
ROTATING STAB/FLOW	-0.3053				
ROTATING BEARING CAP	-0.2958				

* = Reverse relationship

Table 19. Summary of ANOVA and Duncan's Test on Unit Weight and Voids Total Mix for Wearing Mixes (Age=4 or more years)

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARES	MEAN SQUARE	F VALUE
UNIT WEIGHT				
Total	83	150.7		
Model	4	95.7	23.9	34.36
Error	79	55.0	0.70	
VOIDS TOTAL MIX				
Total	84	78.8		
Model	4	36.3	9.08	17.10
Error	80	42.5	0.53	

DUNCAN'S MULTIPLE RANGE TEST
alpha = 0.05

UNIT WEIGHT			VOIDS TOTAL MIX		
DUNCAN'S* GROUPING	COMPACTOR	MEAN (pcf)	DUNCAN'S* GROUPING	COMPACTOR	MEAN (%)
D	ROTATING	1.437	A	ROTATING	-0.954
c	STATIC	0.703	B	STATIC	-0.376
c	GTM	0.205	B & C	GTM	-0.056
B	IN-PLACE	-0.432	c	IN-PLACE	0.193
A	MIX DESIGN	-1.756	D	MIX DESIGN	1.073

* Variables with the same letter are not significantly different.

Table 20. Summary of ANOVA and Duncan's Test on Unit Weight and Voids Total Mix for Binder Mixes (Age=4 or more years)

SOURCE	DEGREES OF FREEDOM	SUM OF' SQUARES	MEAN SQUARE	F VALUE
		UNIT WEIGHT		
Total	80	176.3		
Model	4	95.0	23.7	22.21
Error	76	81.3	1.07	
		VOIDS TOTAL MIX		
Total	84	89.1		
Model	4	39.1	9.78	15.65
Error	80	50.0	0 . 6 2	

DUNCAN'S MULTIPLE RANGE TEST
alpha = 0.05

DUNCAN 'S* GROUPING	UNIT WEIGHT COMPACTOR	MEAN (pcf)	DUNCAN'S* GROUPING	VOIDS TOTAL MIX COMPACTOR	MEAN (%)
D	ROTATING	1.030	A	ROTATING	-0.647
D	GTM	0.976	A	GTM	-0.594
c	STATIC	0.130	A & B	STATIC	-0.074
B	IN-PLACE	-0.792	B	IN-PLACE	0.357
A	MIX DESIGN	-1.964	c	MIX DESIGN	1.326

* Variables with the same letter are not significantly different

Table 21. Summary of Stepwise Regression Analysis For Mix Design Variables

Forward Selection Procedure

Step	Variable Entered	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.33)			
1	Passing #8	1	0.2445	0.2445
2	# Blows	2	0.0280	0.2725
3	Stability	3	0.0190	0.2915
4	Flow	4	0.0124	0.3040
	Binder Mix All Variables R-square = 0.43)			
1	Flow	1	0.1382	0.1382
2	Passing #200	2	0.0469	0.1852
3	VMA	3	0.0666	0.2517
4	Passing #8	4	0.0792	0.3308
5	% Asphalt Cement	5	0.0726	0.4035

Backward Selection Procedure

Step	Variable Removed	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.33)			
1	VTM	9	0.0001	0.3273
2	Passing #200	8	0.0011	0.3262
3	% Asphalt Cement	7	0.0049	0.3213
4	Stability	6	0.0032	0.3181
5	VMA	5	0.0050	0.3131
6	Stability/Flow	4	0.0062	0.3068
7	Bearing Capacity	3	0.0165	0.2903
8	Flow	2	0.0178	0.2725
9	# Blows	1	0.0280	0.2445
	Binder Mix (All Variables R-square = 0.43)			
1	VTM	9	0.0010	0.4285
2	# Blows	8	0.0039	0.4246
3	Bearing Capacity	7	0.0063	0.4183
4	Stability/Flow	6	0.0041	0.4141
5	Stability	5	0.0107	0.4035
6	Passing #200	4	0.0317	0.3718
7	VMA	3	0.0582	0.3136
8	Flow	2	0.0937	0.2198

Table 22. Summary of Stepwise Regression Analysis For Construction Variables

Forward Selection Procedure

Step	Variable Entered	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.34)			
1	Passing #8	1	0.2787	0.2787
2	Passing #200	2	0.0385	0.3172
3	VTM	3	0.0272	0.3444
	Binder Mix (All Variables R-square = 0.47)			
1	Passing #8	1	0.1895	0.1895
2	VTM	2	0.0788	0.2684
3	Passing #200	3	0.1678	0.4362
4	% AC	4	0.0346	0.4708

Backward Selection Procedure

Step	Variable Removed	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.34)			
1	% AC!	3	0.0001	0.3444
2	VTM	2	0.0272	0.3172
3	Passing #200	1	0.0385	0.2787
	Binder Mix (All Variables R-square = 0.47)			
1	% AC	3	0.0346	0.4362

Table 23. Summary of Stepwise Regression Analysis For Post Construction Longitudinal Variables

Forward Selection Procedure

Step	Variable Entered	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.55)			
1	Passing #8	1	0.4373	0.4373
2	Passing #200	2	0.0341	0.4714
3	Crushed particles	3	0.0206	0.4920
4	% Nat'l sand	4	0.0122	0.5042
5	Avg. VTM	5	0.0161	0.5203
6	% AC	6	0.0189	0.5392
	Binder Mix (All Variables R-square = 0.64)			
1	% AC	1	0.2435	0.2435
2	Passing #8	2	0.0873	0.3308
3	Crushed particles	3	0.0811	0.4119
4	Avg. VTM	4	0.0857	0.4976
5	Viscosity	5	0.1008	0.5985
6	Passing #200	6	0.0369	0.6354

Backward Selection Procedure

Step	Variable Removed	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.55)			
1	Passing #200	7	0.0043	0.5494
2	Viscosity	6	0.0160	0.5335
3	Penetration	5	0.0044	0.5290
4	% AC	4	0.0205	0.5086
5	Avg. VTM	3	0.0270	0.4816
6	% Nat'l sand	2	0.0185	0.4631
7	Crushed particles	1	0.0258	0.4373
	Binder Mix (All Variables R-square = 0.64)			
1	Penetration	7	0.0015	0.6382
2	% Nat'l sand	6	0.0028	0.6354
3	Passing #200	5	0.0369	0.5985
4	Crushed particles	4	0.0550	0.5434

Table 24. Summary of Stepwise Regression Analysis For GTM Recompacted Variables

Forward Selection Procedure

Step	Variable Entered	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.68)			
1	Passing #8	1	0.4373	0.4373
2	GSI	2	0.1219	0.5592
3	Avg. VTM	3	0.0206	0.5798
4	Creep	4	0.0308	0.6106
5	VMA	5	0.0254	0.6360
6	Passing #200	6	0.0103	0.6463
	Binder Mix (All Variables R-square = 0.95)			
1	GTM VTM	1	0.4158	0.4158
2	Viscosity	2	0.1022	0.5180
3	Avg. VTM	3	0.0600	0.5780
4	Passing #8	4	0.0511	0.6290
5	Creep	5	0.0616	0.6906
6	Bearing capacity	6	0.0437.	0.7344
7	Crushed particles	7	0.0474	0.7818
8	GTM VMA	8	0.0287	0.8105
9	Stability	9	0.0565	0.8670
10	Passing #200	10	0.0657	0.9326
11	Stab/Flow	11	0.0173	0.9499
12	% AC	12	0.0091	0.9589
13	GSI	13	0.0095	0.9684

Table 24. (Cent) Summary of Stepwise Regression Analysis For GTM Recompacted Variables

Backward Selection Procedure

Step	Variable Removed	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.68)			
1	Stability	15	0.0000	0.6769
2	Avg. VTM	14	0.0000	0.6769
3	Flow	13	0.0005	0.6764
4	Penetration	12	0.0003	0.6761
5	Passing #200	11	0.0019	0.6742
6	Passing #8	10	0.0029	0.6713
7	GSI	9	0.0068	0.6646
8	Viscosity	8	0.0030	0.6616
9	% Nat'l sand	7	0.0069	0.6547
10	Crushed particles	6	0.0074	0.6473
11	GTM VMA	5	0.0398	0.6075
12	GTM VTM	4	0.0134	0.5942
13	Creep	3	0.0413	0.5528
14	Avg. VTM	2	0.0405	0.5123
	Binder Mix (All Variables R-square = 0.95)			
1	Flow	14	0.0000	0.9450
2	% Nat'l sand	13	0.0003	0.9447
3	GSI	12	0.0013	0.9434
4	Penetration	11	0.0007	0.9589
5	% AC	10	0.0091	0.9499
6	Passing #8	9	0.0074	0.9425
7	Bearing Capacity	8	0.0169	0.9257

Table 25. Summary of Stepwise Regression Analysis For Static Base Recompacted Variables

Forward Selection Procedure

Step	Variable Entered	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.72)			
1	Passing #8	1	0.4378	0.4378
2	Stability	2	0.1606	0.5986
3	Avg. VTM	3	0.0356	0.6342
4	Static VMA	4	0.0557	0.6899
5	% Nat'l sand	5	0.0140	0.7039
	Binder Mix (All Variables R-square = 0.97)			
1	Static VTM	1	0.3970	0.3970
2	Viscosity	2	0.1794	0.5764
3	Passing #8	3	0.0553	0.6317
4	Crushed particles	4	0.0448	0.6765
5	Avg. VTM	5	0.0424	0.7189
6	Static VMA	6	0.0473	0.7662
7	Flow	7	0.0472	0.8134
8	Creep	8	0.0403	0.8537
9	Passing #200	9	0.0299	0.8836
10	% Nat'l sand	10	0.0381	0.9217

Backward Selection Procedure

Step	Variable Removed	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.72)			
1	Stability	13	0.0000	0.7217
2	Bearing capacity	12	0.0000	0.7217
3	Crushed particles	11	0.0001	0.7216
4	Viscosity	10	0.0002	0.7214
5	Creep	9	0.0003	0.7211
6	Penetration	8	0.0009	0.7201
7	% AC	7	0.0028	0.7173
8	Passing #200	6	0.0046	0.7127
9	Static VMA	5	0.0036	0.7091
10	% Nat'l sand	4	0.0170	0.6922
11	Flow	3	0.0309	0.6612
	Binder Mix (All Variables R-square = 0.97)			
1	% AC	13	0.0013	0.9652
2	Passing #8	12	0.0010	0.9642
3	Penetration	11	0.0044	0.9598
4	% Nat'l sand	10	0.0065	0.9534

Table 26. Summary of Stepwise Regression Analysis For Rotating Base Recompacted Variables

Forward Selection Procedure

Step	Variable Entered	Number In	Partial R-square	Model R-square
	Wearing Mix (All Variables R-square = 0.73)			
1	Passing #8	1	0.4393	0.4393
2	Stability	2	0.1333	0.5726
3	Rotating VMA	3	0.0544	0.6270
4	Average VTM	4	0.0649	0.6919
5	% Nat'l Sand	5	0.0144	0.7063
6	Rotating VTM	6	0.0087	0.7151
	Binder Mix (All Variables R-square = 0.93)			
1	Rotating VTM	1	0.3970	0.3970
2	Viscosity	2	0.1794	0.5764
3	Passing #8	3	0.0553	0.6317
4	Crushed particles	4	0.0448	0.6765
5	Average VTM	5	0.0424	0.7189
6	Rotating VMA	6	0.0473	0.7662
7	Creep	7	0.0343	0.8005
8	Stability	8	0.0380	0.8385
9	Stability/Flow	9	0.0617	0.9002
10	Penetration	10	0.0160	0.9162
11	% Nat'l sand	11	0.0130	0.9292

APPENDIX "B"

FIGURES

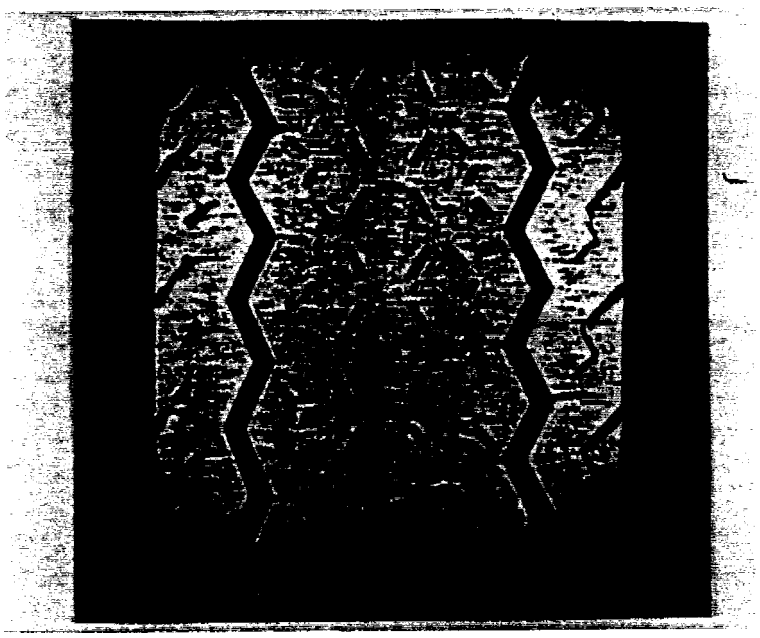

Figure Pre sure print of a load ire

Figure 2. Channelized two-way traffic during construction

Figure 3. Rutting on I-70, Washington County (1986)

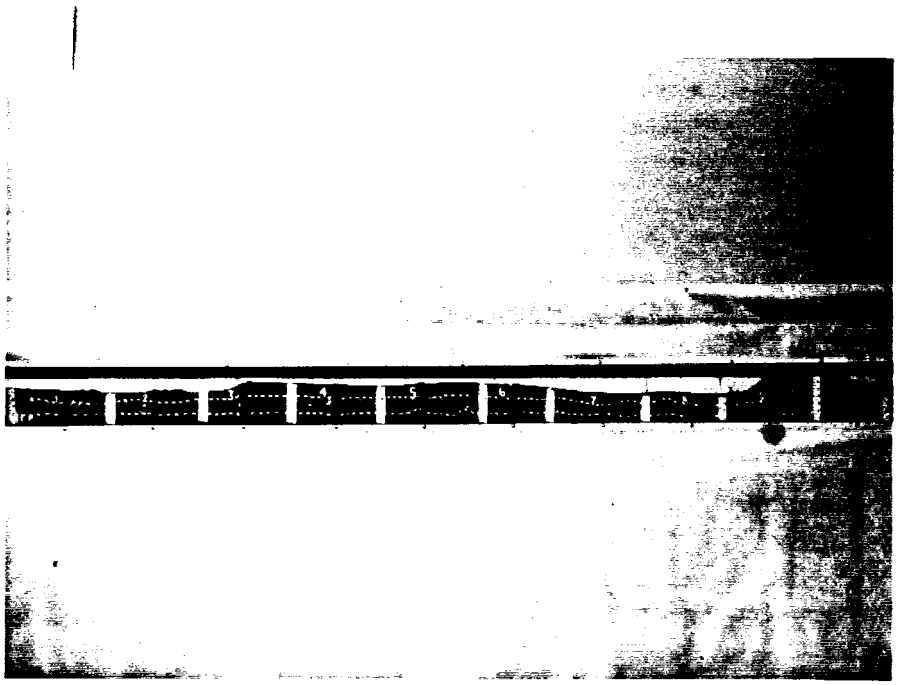

Figure 4. View of tbe pavement slab from 1-70

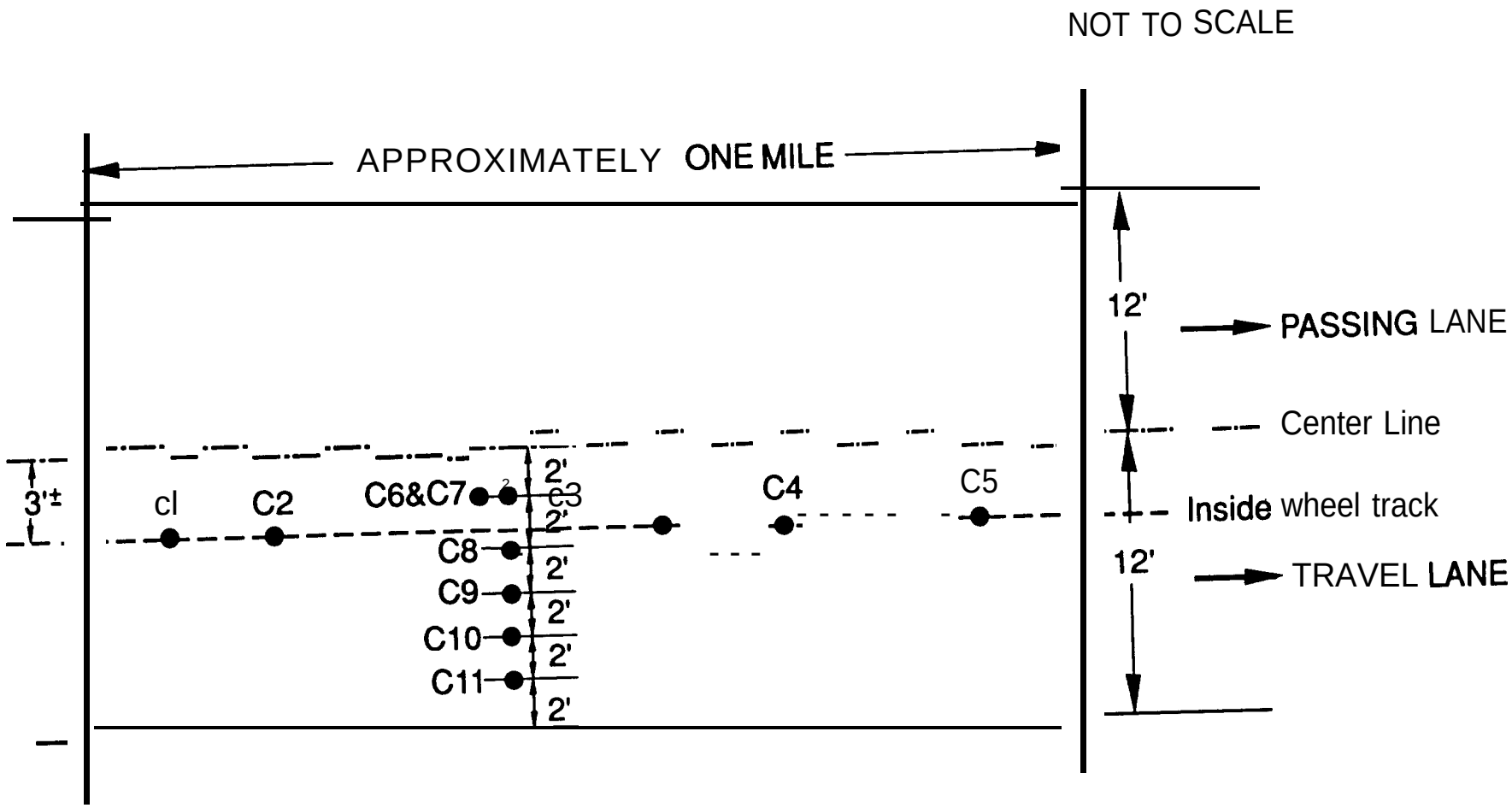

Figure 5. Core sampling plan

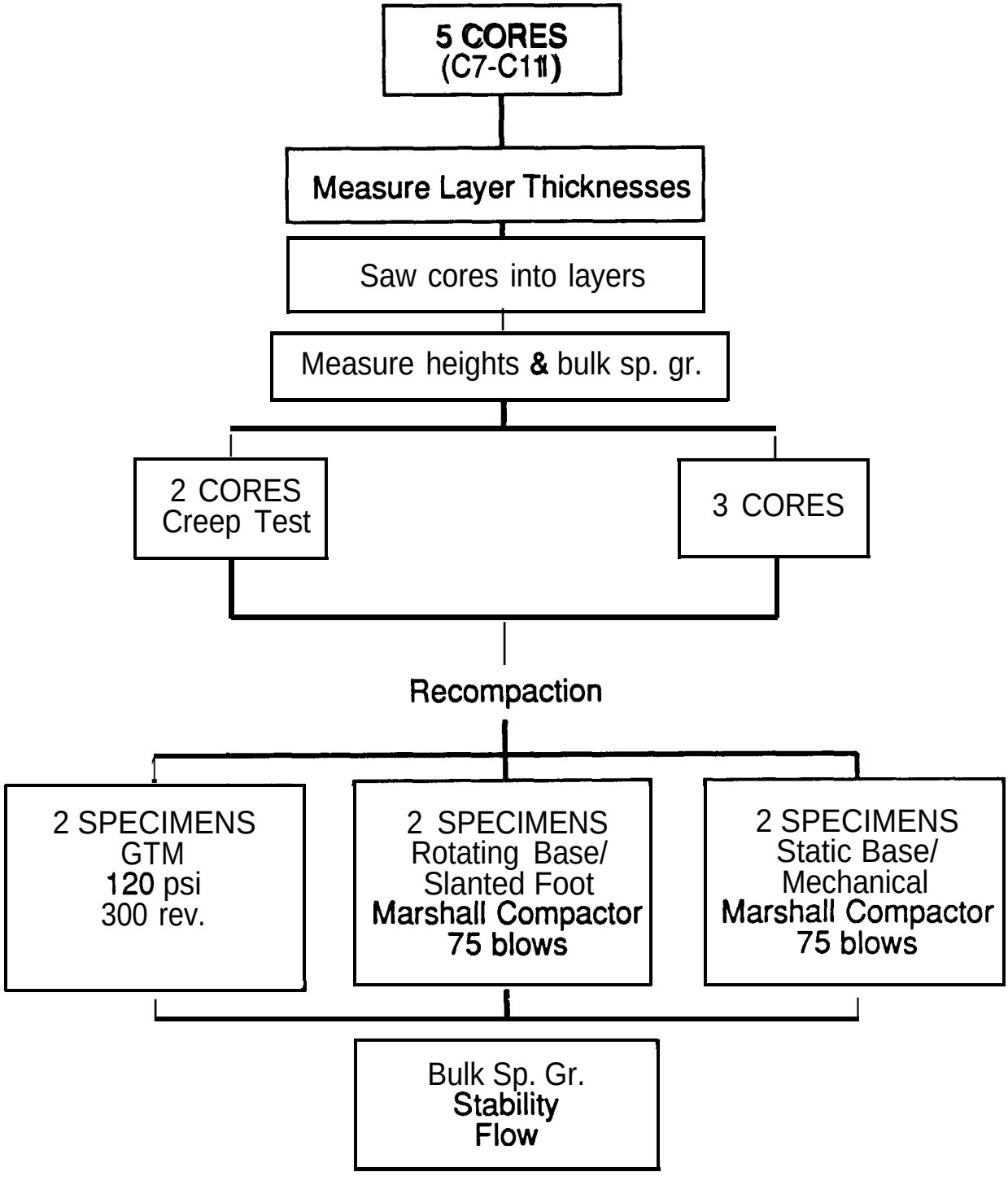

Figure 6. Flow chart for testing Cores C7-C11

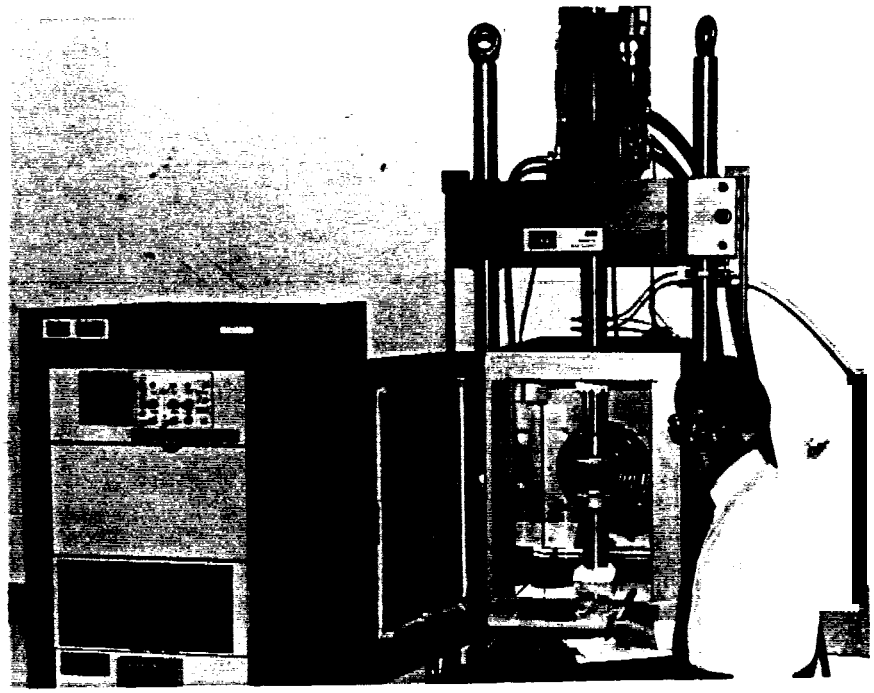

Figure 7. MTS machine used for static creep tests

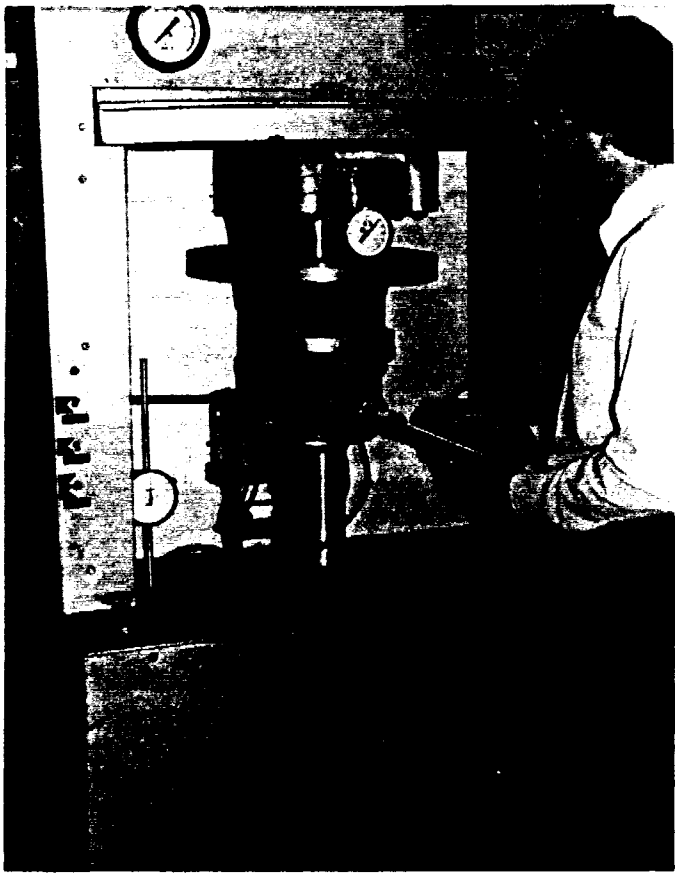

Figure 8. Gyratory testing machine (GTM)

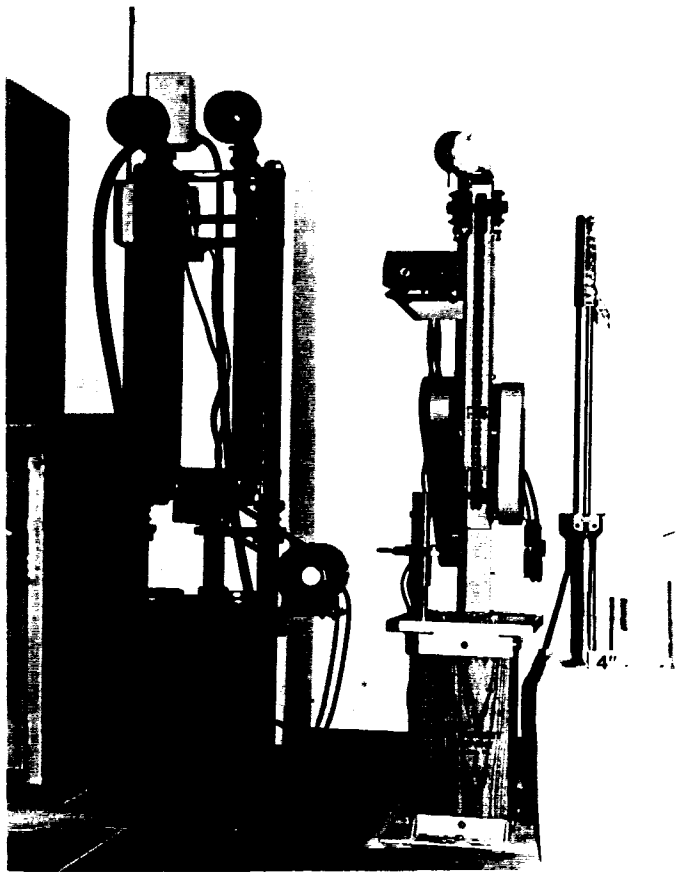

Figure 9. Rotating base (left) and static base (right) mechanical compactors

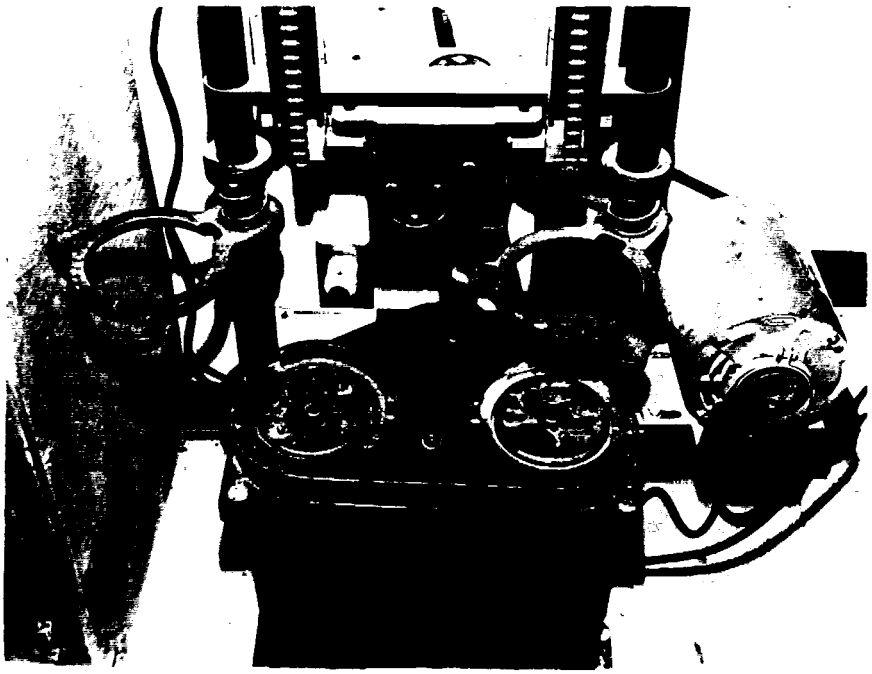

Figure 10. Closeup of rotating base slanted foot Marshall compactor