New Jersey Department of Transportation
1035 Parkway Avenue, PO Box 600, Trenton, New Jersey 08625-0600

Baseline Document Change Announcement

Miscellaneous Revisions to Division 900

BDC03S-08

May 06, 2003

SUBJECT: Revision to Sections 901, 904, & 919 of the English unit and 904, 914, & 919 of the Metric unit 2001 Standard Specifications for Road and Bridge Construction

Miscellaneous corrections have been made to the *2001 Specifications for Road and Bridge Construction* are as follows*:*

Subsection 901.12A, Coarse Aggregate of the *English 2001 Specifications for Road and Bridge Construction* is revised to eliminate the use of the carbonate rock for concrete surface courses or bridge decks.

Subsection 904.01, Asphalt Binder of the *English and Metric 2001 Specifications for Road and Bridge Construction* are revised to use AASHTO Standard Specification.

Subsection 904.06, Temperature-Volume Correction Factor of the *English and Metric 2001 Specifications for Road and Bridge Construction* are revised to comply with ASTM.

Subsection 914.02B, Proportioning and Verification of the *Metric 2001 Specifications for Road and Bridge Construction* is revised to used standard cylinder size.

Subsection 919.07, Fly Ash of the *English and Metric 2001 Specifications for Road and Bridge Construction* are revised to comply with ASTM.

The following revisions are incorporated in the English unit Standard Input SI2001E1:

SECTION 901 - AGGREGATES

901.12 Aggregates for Portland Cement Concrete, Mortar, and Grout.

A. Coarse Aggregate.

THE FIRST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Coarse aggregate shall be broken stone or washed gravel conforming to Subsection 901.04 or 901.05 respectively except that carbonate rock shall not be used for concrete surface courses or bridge decks.

SECTION 904 - BITUMINOUS MATERIALS

904.01 Asphalt Binder.
THE FIRST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Asphalt binder shall conform to AASHTO M320, "Performance-Graded Asphalt Binder".

904.06 Temperature-Volume Correction Factors.
SUBSECTION IS CHANGED TO:

Temperature-volume correction factors that shall be used to convert the volume of bituminous materials, measured at the temperature at the point of use, to the volume at 60 ºF are found in the following tables:

Table 904-1 Temperature-Volume Correction Factors for Bituminous Materials

Asphalt Binder, All Grades.
Cut-Back Asphalt, Grades RC-800, RC-3000, MC-800, and MC-3000.
Inverted Emulsified Asphalt, Grade IEMC-800.

Temp (ºF)	Factor	Temp (ºF)	Factor	Temp (ºF)	Factor	Temp (ºF)	Factor
40	1.0070	85	0.9913	130	0.9758	175	0.9604
41	1.0067	86	0.9909	131	0.9754	176	0.9601
42	1.0063	87	0.9906	132	0.9751	177	0.9597
43	1.0060	88	0.9902	133	0.9747	178	0.9594
44	1.0056	89	0.9899	134	0.9744	179	0.9590
45	1.0053	90	0.9896	135	0.9740	180	0.9587
46	1.0049	91	0.9892	136	0.9737	181	0.9584
47	1.0046	92	0.9889	137	0.9734	182	0.9580
48	1.0042	93	0.9885	138	0.9730	183	0.9577
49	1.0038	94	0.9882	139	0.9727	184	0.9574
50	1.0035	95	0.9878	140	0.9723	185	0.9570
51	1.0031	96	0.9875	141	0.9720	186	0.9567
52	1.0028	97	0.9871	142	0.9716	187	0.9563
53	1.0024	98	0.9868	143	0.9713	188	0.9560
54	1.0021	99	0.9864	144	0.9710	189	0.9557
55	1.0017	100	0.9861	145	0.9706	190	0.9553
56	1.0014	101	0.9857	146	0.9703	191	0.9550
57	1.0010	102	0.9854	147	0.9699	192	0.9547
58	1.0007	103	0.9851	148	0.9696	193	0.9543
59	1.0003	104	0.9847	149	0.9693	194	0.9540
60	1.0000	105	0.9844	150	0.9689	195	0.9536
61	0.9997	106	0.9840	151	0.9686	196	0.9533
62	0.9993	107	0.9837	152	0.9682	197	0.9530
63	0.9990	108	0.9833	153	0.9679	198	0.9526
64	0.9986	109	0.9830	154	0.9675	199	0.9523
65	0.9983	110	0.9826	155	0.9672	200	0.9520
66	0.9979	111	0.9823	156	0.9669	201	0.9516
67	0.9976	112	0.9819	157	0.9665	202	0.9513
68	0.9972	113	0.9815	158	0.9662	203	0.9509
69	0.9969	114	0.9813	159	0.9658	204	0.9506
70	0.9965	115	0.9809	160	0.9655	205	0.9503
71	0.9962	116	0.9806	161	0.9652	206	0.9499
72	0.9958	117	0.9802	162	0.9648	207	0.9496
73	0.9955	118	0.9799	163	0.9645	208	0.9493
74	0.9951	119	0.9795	164	0.9641	209	0.9489
75	0.9948	120	0.9792	165	0.9638	210	0.9486
76	0.9944	121	0.9788	166	0.9635	211	0.9483
77	0.9941	122	0.9785	167	0.9631	212	0.9479
78	0.9937	123	0.9782	168	0.9628	213	0.9476
79	0.9934	124	0.9778	169	0.9624	214	0.9472
80	0.9930	125	0.9775	170	0.9621	215	0.9469
81	0.9927	126	0.9771	171	0.9618	216	0.9466
82	0.9923	127	0.9768	172	0.9614	217	0.9462
83	0.9920	128	0.9764	173	0.9611	218	0.9459
84	0.9916	129	0.9761	174	0.9607	219	0.9456

Table 904-1 (Continued)

Temp (ºF)	Factor	Temp (ºF)	Factor	Temp (ºF)	Factor	Temp (ºF)	Factor
220	0.9452	265	0.9302	310	0.9154	355	0.9008
221	0.9449	266	0.9299	311	0.9151	356	0.9005
222	0.9446	267	0.9296	312	0.9148	357	0.9002
223	0.9442	268	0.9293	313	0.9145	358	0.8998
224	0.9439	269	0.9289	314	0.9141	359	0.8995
225	0.9436	270	0.9286	315	0.9138	360	0.8992
226	0.9432	271	0.9283	316	0.9135	361	0.8989
227	0.9429	272	0.9279	317	0.9132	362	0.8986
228	0.9426	273	0.9276	318	0.9128	363	0.8982
229	0.9422	274	0.9273	319	0.9125	364	0.8979
230	0.9419	275	0.9269	320	0.9122	365	0.8976
231	0.9416	276	0.9266	321	0.9118	366	0.8973
232	0.9412	277	0.9263	322	0.9115	367	0.8969
233	0.9409	278	0.9259	323	0.9112	368	0.8966
234	0.9405	279	0.9256	324	0.9109	369	0.8963
235	0.9402	280	0.9253	325	0.9105	370	0.8960
236	0.9399	281	0.9250	326	0.9102	371	0.8957
237	0.9395	282	0.9246	327	0.9099	372	0.8953
238	0.9392	283	0.9243	328	0.9096	373	0.8950
239	0.9389	284	0.9240	329	0.9092	374	0.8947
240	0.9385	285	0.9236	330	0.9089	375	0.8944
241	0.9382	286	0.9233	331	0.9086	376	0.8941
242	0.9379	287	0.9230	332	0.9083	377	0.8937
243	0.9375	288	0.9227	333	0.9079	378	0.8934
244	0.9372	289	0.9223	334	0.9076	379	0.8931
245	0.9369	290	0.9220	335	0.9073	380	0.8928
246	0.9365	291	0.9217	336	0.9070	381	0.8924
247	0.9362	292	0.9213	337	0.9066	382	0.8921
248	0.9359	293	0.9210	338	0.9063	383	0.8918
249	0.9356	294	0.9207	339	0.9060	384	0.8915
250	0.9352	295	0.9204	340	0.9057	385	0.8912
251	0.9349	296	0.9200	341	0.9053	386	0.8906
252	0.9346	297	0.9197	342	0.9050	387	0.8905
253	0.9342	298	0.9194	343	0.9047	388	0.8902
254	0.9339	299	0.9190	344	0.9044	389	0.8899
255	0.9336	300	0.9187	345	0.9040	390	0.8896
256	0.9332	301	0.9184	346	0.9037	391	0.8892
257	0.9329	302	0.9181	347	0.9034	392	0.8889
258	0.9326	303	0.9177	348	0.9031	393	0.8886
259	0.9322	304	0.9174	349	0.9028	394	0.8883
260	0.9319	305	0.9171	350	0.9024	395	0.8880
261	0.9316	306	0.9167	351	0.9021	396	0.8876
262	0.9312	307	0.9164	352	0.9018	397	0.8873
263	0.9309	308	0.9161	353	0.9015	398	0.8870
264	0.9306	309	0.9158	354	0.9011	399	0.8867
						400	0.8864

Table 904-2 Temperature-Volume Correction Factors
For Bituminous Materials

Cut-Back Asphalt, Grades RC-T, RC-70, RC-250, MC-30, and MC-250.
Inverted Emulsified Asphalt, Grade IEMC-250.

Temp (ºF)	Factor	Temp (ºF)	Factor	Temp (ºF)	Factor	Temp (ºF)	Factor
40	1.0080	85	0.9901	130	0.9725	175	0.9551
41	1.0076	86	0.9897	131	0.9720	176	0.9547
42	1.0072	87	0.9893	132	0.9717	177	0.9543
43	1.0068	88	0.9889	133	0.9713	178	0.9539
44	1.0064	89	0.9885	134	0.9709	179	0.9536
45	1.0060	90	0.9881	135	0.9705	180	0.9532
46	1.0056	91	0.9877	136	0.9701	181	0.9528
47	1.0052	92	0.9873	137	0.9697	182	0.9524
48	1.0048	93	0.9869	138	0.9693	183	0.9520
49	1.0044	94	0.9865	139	0.9690	184	0.9517
50	1.0040	95	0.9861	140	0.9686	185	0.9513
51	1.0036	96	0.9857	141	0.9682	186	0.9509
52	1.0032	97	0.9854	142	0.9678	187	0.9505
53	1.0028	98	0.9850	143	0.9674	188	0.9501
54	1.0024	99	0.9846	144	0.9670	189	0.9498
55	1.0020	100	0.9842	145	0.9666	190	0.9494
56	1.0016	101	0.9838	146	0.9662	191	0.9490
57	1.0012	102	0.9834	147	0.9659	192	0.9486
58	1.0008	103	0.9830	148	0.9655	193	0.9482
59	1.0004	104	0.9826	149	0.9651	194	0.9478
60	1.0000	105	0.9822	150	0.9647	195	0.9475
61	0.9996	106	0.9818	151	0.9643	196	0.9471
62	0.9993	107	0.9814	152	0.9639	197	0.9467
63	0.9988	108	0.9810	153	0.9635	198	0.9463
64	0.9984	109	0.9806	154	0.9632	199	0.9460
65	0.9980	110	0.9803	155	0.9628	200	0.9456
66	0.9976	111	0.9799	156	0.9624	201	0.9452
67	0.9972	112	0.9795	157	0.9620	202	0.9448
68	0.9968	113	0.9791	158	0.9616	203	0.9443
69	0.9964	114	0.9787	159	0.9612	204	0.9441
70	0.9960	115	0.9783	160	0.9609	205	0.9437
71	0.9956	116	0.9779	161	0.9605	206	0.9433
72	0.9952	117	0.9775	162	0.9601	207	0.9429
73	0.9948	118	0.9771	163	0.9597	208	0.9425
74	0.9944	119	0.9767	164	0.9593	209	0.9422
75	0.9940	120	0.9763	165	0.9589	210	0.9418
76	0.9936	121	0.9760	166	0.9585	211	0.9414
77	0.9932	122	0.9756	167	0.9582	212	0.9410
78	0.9929	123	0.9752	168	0.9578	213	0.9407
79	0.9925	124	0.9748	169	0.9574	214	0.9403
80	0.9921	125	0.9744	170	0.9570	215	0.9399
81	0.9917	126	0.9740	171	0.9566	216	0.9395
82	0.9913	127	0.9736	172	0.9562	217	0.9391
83	0.9909	128	0.9732	173	0.9559	218	0.9388
84	0.9905	129	0.9728	174	0.9555	219	0.9384

Table 904-2 (Continued)

Temp (ºF)	Factor	Temp (ºF)	Factor	Temp (ºF)	Factor	Temp (ºF)	Factor
220	0.9380	265	0.9212	310	0.9047	355	0.8884
221	0.9376	266	0.9208	311	0.9043	356	0.8881
222	0.9373	267	0.9205	312	0.9039	357	0.8877
223	0.9369	268	0.9201	313	0.9036	358	0.8873
224	0.9365	269	0.9197	314	0.9032	359	0.8870
225	0.9361	270	0.9194	315	0.9029	360	0.8866
226	0.9358	271	0.9190	316	0.9025	361	0.8863
227	0.9354	272	0.9186	317	0.9021	362	0.8859
228	0.9350	273	0.9182	318	0.9018	363	0.8856
229	0.9346	274	0.9179	319	0.9014	364	0.8852
230	0.9343	275	0.9175	320	0.9010	365	0.8848
231	0.9339	276	0.9171	321	0.9007	366	0.8845
232	0.9335	277	0.9168	322	0.9003	367	0.8841
233	0.9331	278	0.9164	323	0.9000	368	0.8838
234	0.9328	279	0.9160	324	0.8996	369	0.8834
235	0.9324	280	0.9157	325	0.8992	370	0.8831
236	0.9320	281	0.9153	326	0.8989	371	0.8827
237	0.9316	282	0.9149	327	0.8985	372	0.8823
238	0.9313	283	0.9146	328	0.8981	373	0.8820
239	0.9309	284	0.9142	329	0.8978	374	0.8816
240	0.9305	285	0.9138	330	0.8974	375	0.8813
241	0.9301	286	0.9135	331	0.8971	376	0.8809
242	0.9298	287	0.9131	332	0.8967	377	0.8806
243	0.9294	288	0.9127	333	0.8963	378	0.8802
244	0.9290	289	0.9124	334	0.8960	379	0.8799
245	0.9286	290	0.9120	335	0.8956	380	0.8795
246	0.9283	291	0.9116	336	0.8952	381	0.8792
247	0.9279	292	0.9113	337	0.8949	382	0.8788
248	0.9275	293	0.9109	338	0.8945	383	0.8784
249	0.9272	294	0.9105	339	0.8942	384	0.8781
250	0.9268	295	0.9102	340	0.8938	385	0.8777
251	0.9264	296	0.9098	341	0.8934	386	0.8774
252	0.9260	297	0.9094	342	0.8931	387	0.8770
253	0.9257	298	0.9091	343	0.8927	388	0.8767
254	0.9253	299	0.9087	344	0.8924	389	0.8763
255	0.9249	300	0.9083	345	0.8920	390	0.8760
256	0.9245	301	0.9080	346	0.8916	391	0.8756
257	0.9242	302	0.9076	347	0.8913	392	0.8753
258	0.9238	303	0.9072	348	0.8909	393	0.8749
259	0.9234	304	0.9069	349	0.8906	394	0.8746
260	0.9231	305	0.9065	350	0.8902	395	0.8742
261	0.9227	306	0.9061	351	0.8899	396	0.8738
262	0.9223	307	0.9058	352	0.8895	397	0.8735
263	0.9219	308	0.9054	353	0.8891	398	0.8731
264	0.9216	309	0.9050	354	0.8888	399	0.8728
						400	0.8724

Table 904-3 Temperature-Volume Correction Factors for Bituminous Materials

Emulsified Asphalt, All Grades.

Temp (ºF)	Factor	Temp (ºF)	Factor	Temp (ºF)	Factor	Temp (ºF)	Factor
40	1.0050	75	0.9963	110	0.9876	145	0.9792
41	1.0048	76	0.9960	111	0.9874	146	0.9790
42	1.0045	77	0.9958	112	0.9872	147	0.9787
43	1.0043	78	0.9955	113	0.9869	148	0.9785
44	1.0040	79	0.9953	114	0.9867	149	0.9782
45	1.0038	80	0.9950	115	0.9864	150	0.9780
46	1.0035	81	0.9948	116	0.9862	151	0.9778
47	1.0033	82	0.9945	117	0.9860	152	0.9775
48	1.0030	83	0.9943	118	0.9857	153	0.9773
49	1.0028	84	0.9940	119	0.9855	154	0.9770
50	1.0025	85	0.9938	120	0.9852	155	0.9768
51	1.0023	86	0.9935	121	0.9850	156	0.9766
52	1.0020	87	0.9933	122	0.9847	157	0.9763
53	1.0018	88	0.9930	123	0.9845	158	0.9761
54	1.0015	89	0.9928	124	0.9843	159	0.9758
55	1.0013	90	0.9925	125	0.9840	160	0.9756
56	1.0010	91	0.9923	126	0.9838	161	0.9754
57	1.0008	92	0.9920	127	0.9835	162	0.9751
58	1.0005	93	0.9918	128	0.9833	163	0.9749
59	1.0003	94	0.9915	129	0.9830	164	0.9747
60	1.0000	95	0.9913	130	0.9828	165	0.9744
61	0.9998	96	0.9910	131	0.9826	166	0.9742
62	0.9995	97	0.9908	132	0.9823	167	0.9739
63	0.9993	98	0.9905	133	0.9821	168	0.9737
64	0.9990	99	0.9903	134	0.9818	169	0.9735
65	0.9988	100	0.9901	135	0.9816	170	0.9732
66	0.9985	101	0.9899	136	0.9814	171	0.9730
67	0.9983	102	0.9896	137	0.9811	172	0.9728
68	0.9980	103	0.9894	138	0.9809	173	0.9725
69	0.9978	104	0.9891	139	0.9806	174	0.9723
70	0.9975	105	0.9889	140	0.9804	175	0.9721
71	0.9973	106	0.9886	141	0.9802	176	0.9718
72	0.9970	107	0.9884	142	0.9799	177	0.9716
73	0.9968	108	0.9881	143	0.9797	178	0.9713
74	0.9965	109	0.9879	144	0.9794	179	0.9711

SECTION 919 - MISCELLANEOUS

919.07 Fly Ash.
THE FIRST PARAGRAPH IS CHANGED TO:

Fly ash for portland cement concrete shall conform to ASTM C 618, Class C or Class F except that the loss on ignition shall not be more than three percent. Fly ash used to control alkali-silica reactivity shall be Class F and shall comply with Supplementary Optional Chemical Requirements of ASTM C 618, Table 2. Before each source of fly ash is approved, certified results of tests conducted by a testing agency shall be submitted to and verified by the Department. Accompanying the certification shall be a statement from the supplier listing the source and type of coal, the methods used to burn, collect, and store the fly ash, and the quality control measures employed.

The following revisions shall be incorporated in the Metric unit Standard Input SI2001M1:

SECTION 904 - BITUMINOUS MATERIALS

904.01 Asphalt Binder.
THE FIRST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Asphalt binder shall conform to AASHTO M320, "Performance-Graded Asphalt Binder".

904.06 Temperature-Volume Correction Factors.
SUBSECTION IS CHANGED TO:

Temperature-volume correction factors that shall be used to convert the volume of bituminous materials, measured at the temperature at the point of use, to the volume at 15ºC are found in the following tables:

Table 904-1 Temperature-Volume Correction Factors for Bituminous Materials

Asphalt Binder, All Grades.
Cut-Back Asphalt, Grades RC-800, RC-3000, MC-800, and MC-3000.
Inverted Emulsified Asphalt, Grade IEMC-800.

Temp (ºC)	Factor	Temp (ºC)	Factor	Temp (ºC)	Factor	Temp (ºC)	Factor
5	1.006 3	30	0.990 6	55	0.975 1	80	0.959 7
6	1.005 7	31	0.990 0	56	0.974 5	81	0.959 1
7	1.005 0	32	0.989 3	57	0.973 8	82	0.958 5
8	1.004 4	33	0.988 7	58	0.973 2	83	0.957 9
9	1.003 8	34	0.988 1	59	0.972 6	84	0.957 3
10	1.003 1	35	0.987 5	60	0.972 0	85	0.956 7
11	1.002 5	36	0.986 9	61	0.971 4	86	0.956 1
12	1.001 9	37	0.986 2	62	0.970 8	87	0.955 5
13	1.001 3	38	0.985 6	63	0.970 1	88	0.954 9
14	1.000 6	39	0.985 0	64	0.969 5	89	0.954 2
15	1.000 0	40	0.984 4	65	0.968 9	90	0.953 6
16	0.999 4	41	0.983 7	66	0.968 3	91	0.953 0
17	0.998 7	42	0.983 1	67	0.967 7	92	0.952 4
18	0.998 1	43	0.982 5	68	0.967 1	93	0.951 8
19	0.997 5	44	0.981 9	69	0.966 5	94	0.951 2
20	0.996 9	45	0.981 3	70	0.965 8	95	0.950 6
21	0.996 2	46	0.980 6	71	0.965 2	96	0.950 0
22	0.995 6	47	0.980 0	72	0.964 6	97	0.949 4
23	0.995 0	48	0.979 4	73	0.964 0	98	0.948 8
24	0.994 4	49	0.978 8	74	0.963 4	99	0.948 2
25	0.993 7	50	0.978 2	75	0.962 8	100	0.947 6
26	0.993 1	51	0.977 5	76	0.962 2	101	0.947 0
27	0.992 5	52	0.976 9	77	0.961 6	102	0.946 4
28	0.991 8	53	0.976 3	78	0.960 9	103	0.945 8
29	0.991 2	54	0.975 7	79	0.960 3	104	0.945 2

Table 904-1 (Continued)

Temp (ºC)	Factor	Temp (ºC)	Factor	Temp (ºC)	Factor	Temp (ºC)	Factor
105	0.944 6	130	0.929 6	155	0.914 5	180	0.900 2
106	0.944 0	131	0.929 0	156	0.914 2	181	0.899 6
107	0.943 4	132	0.928 4	157	0.913 6	182	0.899 0
108	0.942 8	133	0.927 8	158	0.913 0	183	0.898 4
109	0.942 2	134	0.927 2	159	0.912 4	184	0.897 9
110	0.941 6	135	0.926 6	160	0.911 9	185	0.897 3
111	0.941 0	136	0.926 0	161	0.911 3	186	0.896 7
112	0.940 4	137	0.925 4	162	0.910 7	187	0.896 1
113	0.939 8	138	0.924 8	163	0.910 1	188	0.895 5
114	0.939 2	139	0.924 2	164	0.909 5	189	0.895 0
115	0.938 6	140	0.923 6	165	0.908 9	190	0.894 4
116	0.938 0	141	0.923 1	166	0.908 3	191	0.893 8
117	0.937 4	142	0.922 5	167	0.907 8	192	0.893 2
118	0.936 8	143	0.921 9	168	0.907 2	193	0.892 6
119	0.936 2	144	0.921 3	169	0.906 6	194	0.892 1
120	0.935 6	145	0.920 7	170	0.906 0	195	0.891 5
121	0.935 0	146	0.920 1	171	0.905 4	196	0.890 9
122	0.934 4	147	0.919 5	172	0.904 8	197	0.890 3
123	0.933 8	148	0.918 9	173	0.904 2	198	0.889 8
124	0.933 2	149	0.918 3	174	0.903 7	199	0.889 2
125	0.932 6	150	0.917 7	175	0.903 1	200	0.888 6
126	0.932 0	151	0.917 1	176	0.902 5	201	0.888 0
127	0.931 4	152	0.916 6	177	0.901 9	202	0.887 5
128	0.930 8	153	0.916 0	178	0.901 3	203	0.886 9
129	0.930 2	154	0.915 4	179	0.900 8	204	0.886 3

Table 904-2 Temperature-Volume Correction Factors for Bituminous Materials

Cut-Back Asphalt, Grades RC-T, RC-70, RC-250, MC-30, and MC-250.
Inverted Emulsified Asphalt, Grade IEMC-250.

Temp (ºC)	Factor	Temp (ºC)	Factor	Temp (ºC)	Factor	Temp (ºC)	Factor
5	1.007 2	30	0.989 3	55	0.971 7	80	0.954 3
6	1.006 5	31	0.988 6	56	0.971 0	81	0.953 6
7	1.005 7	32	0.987 9	57	0.970 3	82	0.953 0
8	1.005 0	33	0.987 2	58	0.969 6	83	0.952 3
9	1.004 3	34	0.986 5	59	0.968 9	84	0.951 6
10	1.003 6	35	0.985 8	60	0.968 2	85	0.950 9
11	1.002 9	36	0.985 0	61	0.967 5	86	0.950 2
12	1.002 2	37	0.984 3	62	0.966 8	87	0.949 5
13	1.001 4	38	0.983 6	63	0.966 1	88	0.948 8
14	1.000 7	39	0.982 9	64	0.965 4	89	0.948 2
15	1.000 0	40	0.982 2	65	0.964 7	90	0.947 5
16	0.999 3	41	0.981 5	66	0.964 0	91	0.946 8
17	0.998 6	42	0.980 8	67	0.963 3	92	0.946 1
18	0.997 9	43	0.980 1	68	0.962 6	93	0.945 4
19	0.997 1	44	0.979 4	69	0.961 9	94	0.944 7
20	0.996 4	45	0.978 7	70	0.961 2	95	0.944 1
21	0.995 7	46	0.978 0	71	0.960 5	96	0.943 4
22	0.995 0	47	0.977 3	72	0.959 9	97	0.942 7
23	0.994 3	48	0.976 6	73	0.959 2	98	0.942 0
24	0.993 6	49	0.975 9	74	0.958 5	99	0.941 3
25	0.992 9	50	0.975 2	75	0.957 8	100	0.940 7
26	0.992 1	51	0.974 5	76	0.957 1	101	0.940 0
27	0.991 4	52	0.973 8	77	0.956 4	102	0.939 3
28	0.990 7	53	0.973 1	78	0.955 7	103	0.938 6
29	0.990 0	54	0.972 4	79	0.955 0	104	0.937 9

Table 904-2 (Continued)

Temp (ºC)	Factor	Temp (ºC)	Factor	Temp (ºC)	Factor	Temp (ºC)	Factor
105	0.937 3	130	0.920 5	155	0.904 0	180	0.887 7
106	0.936 6	131	0.919 8	156	0.903 3	181	0.887 1
107	0.935 9	132	0.919 1	157	0.902 6	182	0.886 4
108	0.935 2	133	0.918 5	158	0.902 0	183	0.885 8
109	0.934 6	134	0.917 8	159	0.901 3	184	0.885 1
110	0.933 9	135	0.917 1	160	0.900 7	185	0.884 5
111	0.933 2	136	0.916 5	161	0.900 0	186	0.883 9
112	0.932 5	137	0.915 8	162	0.899 4	187	0.883 2
113	0.931 9	138	0.915 2	163	0.898 7	188	0.882 6
114	0.931 2	139	0.914 5	164	0.898 1	189	0.881 9
115	0.930 5	140	0.913 8	165	0.897 4	190	0.881 3
116	0.929 8	141	0.913 2	166	0.896 8	191	0.880 7
117	0.929 2	142	0.912 5	167	0.896 1	192	0.880 0
118	0.928 5	143	0.911 8	168	0.895 5	193	0.879 4
119	0.927 8	144	0.911 2	169	0.894 8	194	0.878 7
120	0.927 2	145	0.910 5	170	0.894 2	195	0.878 1
121	0.926 5	146	0.909 9	171	0.893 5	196	0.877 5
122	0.925 8	147	0.909 2	172	0.892 9	197	0.876 8
123	0.925 1	148	0.908 6	173	0.892 2	198	0.876 2
124	0.924 5	149	0.907 9	174	0.891 6	199	0.875 5
125	0.923 8	150	0.907 2	175	0.890 9	200	0.874 9
126	0.923 1	151	0.906 6	176	0.890 3	201	0.874 3
127	0.922 5	152	0.905 9	177	0.889 6	202	0.873 6
128	0.921 8	153	0.905 3	178	0.889 0	203	0.873 0
129	0.921 1	154	0.904 6	179	0.888 4	204	0.872 4

Table 904-3 Temperature-Volume Correction Factors for Bituminous Materials

Emulsified Asphalt, All Grades.

Temp (ºC)	Factor	Temp (ºC)	Factor	Temp (ºC)	Factor
5	1.004 5	31	0.992 8	57	0.981 4
6	1.004 0	32	0.992 3	58	0.981 0
7	1.003 6	33	0.991 9	59	0.980 5
8	1.003 1	34	0.991 4	60	0.980 1
9	1.002 7	35	0.991 0	61	0.979 7
10	1.002 2	36	0.990 5	62	0.979 2
11	1.001 8	37	0.990 1	63	0.978 8
12	1.001 3	38	0.989 7	64	0.978 4
13	1.000 9	39	0.989 1	65	0.977 9
14	1.000 4	40	0.988 8	66	0.977 5
15	1.000 0	41	0.988 4	67	0.977 1
16	0.999 5	42	0.987 9	68	0.976 6
17	0.999 1	43	0.987 5	69	0.976 2
18	0.998 6	44	0.987 1	70	0.975 8
19	0.998 2	45	0.986 6	71	0.975 3
20	0.997 7	46	0.986 2	72	0.974 9
21	0.997 3	47	0.985 8	73	0.974 5
22	0.996 8	48	0.985 3	74	0.974 1
23	0.996 4	49	0.984 9	75	0.973 6
24	0.995 9	50	0.984 4	76	0.973 2
25	0.995 5	51	0.984 0	77	0.972 8
26	0.995 0	52	0.983 6	78	0.972 4
27	0.994 6	53	0.983 1	79	0.972 0
28	0.994 1	54	0.982 7	80	0.971 5
29	0.993 7	55	0.982 3	81	0.971 1
30	0.993 2	56	0.981 8		

SECTION 914 - PORTLAND CEMENT CONCRETE, MORTAR, AND GROUT

914.02 Portland Cement Concrete Design, Control, and Acceptance Testing Requirements

B. Proportioning and Verification.

THE SECOND SENTENCE OF THE THIRD PARAGRAPH IS CHANGED TO:

> At least six 100 by 200-millimeter compression test cylinders shall be prepared from each batch and cured according to AASHTO T 23 or AASHTO T 126.

SECTION 919 - MISCELLANEOUS

919.07 Fly Ash.

THE FIRST PARAGRAPH IS CHANGED TO:

Fly ash for portland cement concrete shall conform to ASTM C 618, Class C or Class F except that the loss on ignition shall not be more than three percent. Fly ash used to control alkali-silica reactivity shall be Class F and shall comply with Supplementary Optional Chemical Requirements of ASTM C 618, Table 2. Before each source of fly ash is approved, certified results of tests conducted by a testing agency shall be submitted to and verified by the Department. Accompanying the certification shall be a statement from the supplier listing the source and type of coal, the methods used to burn, collect, and store the fly ash, and the quality control measures employed.

Instructions to Designers:

Effective May 27, 2003, the above specification revision shall be included on all Department projects designed using the *English or Metric 2001 Standard Specifications.* The specification revision has been incorporated in the Standard Inputs *SI2001E1* and *SI2001M1* updated as of May 06, 2003.

Designers may access updated version of the Standard Inputs *SI2001E1* and *SI2001M1* from the following New Jersey Department of Transportation Web Page:

http://www.state.nj.us/transportation/cpm/StandardInputs/standardinputs.htm

Distribution and Announcement Access Information:

This announcement is being distributed electronically to our in-house staff and various public agencies based on our distribution list maintained by the Engineering Documents Unit (EDU).

Internet access to this BDC Announcement can be downloaded and viewed from the following New Jersey Department of Transportation Web Page:

http://www.state.nj.us/transportation/cpm/BaselineDocuments

Hard copies are available on a limited basis by contacting EDU at the following address:

Engineering Documents Unit
E&O Building, 1st Floor
1035 Parkway Avenue, PO Box 600
Trenton, New Jersey 08625-0600
Phone: (609) 530-5587
Fax: (609) 530-6626

Recommended By:

ORIGINAL SIGNED

Brian Strizki
Director,
Quality Management Services

Approved By:

ORIGINAL SIGNED

Arthur Silber
Assistant Commissioner,
Capital Program Management

BJS: HVP
BDC03S-08.doc