SHEET NO.	204				204				204				206		206		206			204			
	SUBGRADE COMPACTION				PROOF ROLLING (1 HOUR/2000 SQ YD)				GEOTEXTILE FABRIC				CEMENT (0.75 x 115 x 0.05) LB/SY		CURING COAT		CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP			GEOGRID			
	SY				HOUR				SY				TON		SY		SY			SY			
	01/NHS/PV	01/NHS/PV	04/MPO/OT	05/NHS/ OT/COL	01/NHS/PV	01/NHS/PV	04/MPO/OT	05/NHS/ OT/COL	01/NHS/PV	04/MPO/OT	05/NHS/ OT/COL		01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV		01/NHS/PV	04/MPO/OT	05/NHS/ OT/COL	
2	4304	2870			4.5	3.0							9.9	6.6	4585	3057	4585	3057					
3	545	363			2.2	1.5							8.2	5.5	3775	2517	3775	2517					
4	1575	1575			2.7	2.6							8.2	7.5	3796	3453	3796	3453					
5	1200	2494			1.2	2.3							2.6	4.3	1177	1953	1177	1953					
6	612	6631			0.5	4.5							0.9	5.0	373	2277	373	2277					
7		4068				2.8								3.0		1352		1352					
8	194	2715			0.3	1.7							0.5	1.5	211	661	211	661					
9	2462			906	1.3			0.5	2462		906									2462		906	
10	1939		162	1175	1.0		0.1	0.6	1939	162	1175									1939	162	1175	
11	1152	1344			0.8	1.4																	
12	1431	1821																					
TOTALS CARRIED TO THE GENERAL SUMMARY	**15414**	**23881**	**162**	**2081**	**15**	**20**	**1**	**2**	**4401**	**162**	**2081**		**31**	**34**	**13917**	**15270**	**13917**	**15270**		**4401**	**162**	**2081**	

SHEET NO.	878		
	INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS		
	LS		
	01/NHS/PV	01/NHS/PV	
TOTALS CARRIED TO THE GENERAL SUMMARY	**LS**	**LS**	

CALCULATED CJC

CHECKED CWL

SUBGRADE SUBSUMMARY

FRA - 70 / 71 - 12.68 / 14.86

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 16" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 28" EXTENSION	AREA FOR 56" EXTENSION	204 SUBGRADE COMPACTION		204 PROOF ROLLING (1 HOUR/2000 SQ YD)		206 CEMENT (0.75 x 115 x 0.05) LB/SY		206 CURING COAT		206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP			
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SY		HOUR		TON		SY		SY			
													01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV		
EASTBOUND I.R. 70																								
FULL DEPTH LANES																								
125+96.00	126+95.71	LT	99.71	24.00	1.0021		2398.07								0.080	0.053	0.345	0.230	159.87	106.58	159.87	106.58		
128+27.86	129+50.00	LT	122.14	24.00	1.0021		2937.52								0.098	0.065	0.422	0.282	195.83	130.56	195.83	130.56		
4169+93.98	4172+00.00	LT	206.02	24.00	1.0031		4959.81								0.165	0.110	0.713	0.475	330.65	220.44	330.65	220.44		
4172+00.00	4175+58.73	LT	358.73	24.00	1.0031		8636.21						575.75	383.83	0.288	0.192								
4177+15.67	4177+77.84	LT	62.17	24.00	1.0031		1496.71						99.78	66.52	0.050	0.033								
4177+77.84	4180+82.06	LT	304.22	24.00			7301.28						486.75	324.50	0.243	0.162								
4180+82.06	4186+04.15	LT	522.09	24.00			12530.16								0.418	0.278	1.801	1.201	835.34	556.90	835.34	556.90		
4186+04.15	4186+25.00	LT	20.85	24.00	0.9959		498.35								0.017	0.011	0.072	0.048	33.22	22.15	33.22	22.15		
4186+25.00	4186+72.06	LT			CADD			81.99					5.47	3.64	0.003	0.002								
125+96.00	126+95.68	RT	99.68	12.00	0.9990		1194.96								0.040	0.027	0.172	0.115	79.66	53.11	79.66	53.11		
128+28.25	129+50.00	RT	121.75	12.00	0.9990		1459.54								0.049	0.032	0.210	0.140	97.30	64.87	97.30	64.87		
4169+93.98	4172+00.00	RT	206.02	24.00	0.9969		4929.15								0.164	0.110	0.709	0.472	328.61	219.07	328.61	219.07		
4172+00.00	4175+64.56	RT	364.56	24.00	0.9969		8722.32						581.49	387.66	0.291	0.194								
4177+25.72	4177+77.84	RT	52.12	41.43	0.9946		2147.67						143.18	95.45	0.072	0.048								
4177+77.84	4180+82.06	RT	304.22	37.81			11502.56						766.84	511.22	0.383	0.256								
4180+82.06	4186+04.15	RT	522.09	29.55			15427.76								0.514	0.343	2.218	1.478	1028.52	685.68	1028.52	685.68		
4186+04.15	4186+20.50	RT	16.35	24.16	1.0042		396.68								0.013	0.009	0.057	0.038	26.45	17.63	26.45	17.63		
4186+20.50	4186+25.00	RT	4.50	24.00	1.0041		108.44								0.004	0.002	0.016	0.010	7.23	4.82	7.23	4.82		
4186+25.00	4186+72.06	RT	47.06	24.00	1.0041		1134.07						75.60	50.40	0.038	0.025								
4186+72.06	4196+03.94	RT			CADD			10272.67					684.84	456.56	0.342	0.228								
4196+03.94	4197+98.56	RT	194.62	5.40			1050.95						70.06	46.71	0.035	0.023								
FULL DEPTH SHOULDER																								
125+96.00	126+33.00	LT	37.00	12.74	1.0053	1.0064	473.88				86.89				0.019	0.012	0.081	0.054	37.38	24.92	37.38	24.92		
126+33.00	126+95.75	LT	62.75	12.00	1.0052	1.0063	756.92				147.34				0.030	0.020	0.130	0.087	60.28	40.19	60.28	40.19		
128+27.50	128+95.00	LT	67.50	12.00	1.0052	1.0063	814.21			113.21					0.031	0.021	0.133	0.089	61.83	41.22	61.83	41.22		
128+95.00	129+50.00	LT	55.00	11.39	1.0052	1.0062	629.71			92.24					0.024	0.016	0.104	0.069	48.13	32.09	48.13	32.09		
4158+50.35	4166+01.56	LT			CADD			7502.84							0.250	0.167	1.079	0.719	500.19	333.46	500.19	333.46		
4169+82.17	4170+02.21	LT	20.04	14.00	1.0081		282.83								0.009	0.006	0.041	0.027	18.86	12.57	18.86	12.57		
4170+02.21	4170+41.79	LT	39.58	14.80	1.0082		590.59								0.020	0.013	0.085	0.057	39.37	26.25	39.37	26.25		
4170+41.79	4170+51.68	LT	9.89	15.30	1.0083		152.57								0.005	0.003	0.022	0.015	10.17	6.78	10.17	6.78		
4170+51.68	4170+91.16	LT	39.48	16.85	1.0085		670.89								0.022	0.015	0.096	0.064	44.73	29.82	44.73	29.82		
4170+91.16	4172+00.00	LT	108.84	15.00	1.0082	1.0102	1645.99		146.60						0.060	0.040	0.258	0.172	119.51	79.67	119.51	79.67		
4172+00.00	4173+50.00	LT	150.00	15.00	1.0082	1.0102	2268.45		202.04				164.70	109.80	0.082	0.055								
4173+50.00	4174+01.00	LT	51.00	15.20	1.0083	1.0103	781.63		68.70				56.69	37.79	0.028	0.019								
4174+01.00	4174+45.96	LT	44.96	14.65	1.0082		664.07						44.27	29.51	0.022	0.015								
4174+45.96	4174+55.95	LT	9.99	13.90	1.0081		139.99						9.33	6.22	0.005	0.003								
4174+55.95	4174+95.93	LT	39.98	14.20	1.0081		572.31						38.15	25.44	0.019	0.013								
4174+95.93	4175+53.86	LT	57.93	14.20	1.0081		829.27						55.28	36.86	0.028	0.018								
4177+10.18	4177+57.34	LT	47.16	13.14	1.0080	1.0097	624.64					222.21	56.46	37.64	0.028	0.019								
4177+57.34	4177+77.84	LT	20.50	13.73	1.0081	1.0099	283.74					96.61	25.36	16.90	0.013	0.008								
4177+77.84	4180+77.93	LT	300.09	13.28			3985.20					1400.42	359.04	239.36	0.180	0.120								
4180+77.93	4180+82.06	LT	4.13	12.79			52.82					19.27	4.81	3.20	0.002	0.002								
4180+82.06	4181+17.91	LT	35.85	11.79			422.67					167.30			0.020	0.013	0.085	0.057	39.33	26.22	39.33	26.22		
4181+17.91	4186+04.15	LT	486.24	10.21			4964.51					2269.12			0.241	0.161	1.040	0.693	482.24	321.49	482.24	321.49		
TOTALS CARRIED TO PAVEMENT SUBSUMMARY													**4304**	**2870**	**4.5**	**3.0**	**9.9**	**6.6**	**4585**	**3057**	**4585**	**3057**		

CALCULATED CJC

CHECKED CWL

SUBGRADE CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 16" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 42" EXTENSION	204 SUBGRADE COMPACTION		204 PROOF ROLLING (1 HOUR/2000 SQ YD)		206 CEMENT (0.75 x 115 x 0.05) LB/SY		206 CURING COAT		206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP			
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SY		HOUR		TON		SY		SY			
													01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV		
EASTBOUND I.R. 70																								
FULL DEPTH SHOULDER CONT'D																								
4186+04.15	4186+25.00	LT	20.85	9.59	0.9901	0.9884	197.97					96.17			0.010	0.007	0.042	0.028	19.61	13.07	19.61	13.07		
4186+25.00	4186+39.42	LT	14.42	9.44	0.9901	0.9885	134.78					66.52			0.007	0.004	0.029	0.019	13.42	8.95	13.42	8.95		
4186+39.42	4187+90.00	LT	150.58	CADD				1483.72				702.71			0.073	0.049	0.314	0.210	145.76	97.17	145.76	97.17		
4187+90.00	4188+87.48	LT	97.48	10.26	0.9900		990.14								0.033	0.022	0.142	0.095	66.01	44.01	66.01	44.01		
4188+87.48	4190+40.00	LT	152.52	8.67	0.9909		1310.32								0.044	0.029	0.188	0.126	87.35	58.24	87.35	58.24		
4190+40.00	4191+54.37	LT	114.37	7.95	0.9917		901.69								0.030	0.020	0.130	0.086	60.11	40.08	60.11	40.08		
4191+54.37	4192+63.51	LT	109.14	7.16	0.9917		774.96								0.026	0.017	0.111	0.074	51.66	34.44	51.66	34.44		
4192+63.51	4193+45.18	LT	81.67	7.82	0.9912		633.04								0.021	0.014	0.091	0.061	42.20	28.14	42.20	28.14		
4193+45.18	4196+99.64	LT	354.46	8.90			3154.69								0.105	0.070	0.453	0.302	210.31	140.21	210.31	140.21		
4196+99.64	4198+63.49	LT	163.85	9.08			1487.76								0.050	0.033	0.214	0.143	99.18	66.12	99.18	66.12		
4198+63.49	4199+26.94	LT	63.45	8.35			529.81								0.018	0.012	0.076	0.051	35.32	23.55	35.32	23.55		
4199+26.94	4200+19.90	LT	92.96	7.54			700.92								0.023	0.016	0.101	0.067	46.73	31.15	46.73	31.15		
4200+19.90	4200+83.38	LT	63.48	8.42			534.50								0.018	0.012	0.077	0.051	35.63	23.76	35.63	23.76		
4200+83.38	4203+42.95	LT	259.57	9.16			2377.66								0.079	0.053	0.342	0.228	158.51	105.67	158.51	105.67		
4203+42.95	4203+82.95	LT	40.00	8.41			336.40								0.011	0.007	0.048	0.032	22.43	14.95	22.43	14.95		
4203+82.95	4205+38.70	LT	155.75	7.77			1210.18								0.040	0.027	0.174	0.116	80.68	53.79	80.68	53.79		
4205+38.70	4205+78.69	LT	39.99	8.54			341.51								0.011	0.008	0.049	0.033	22.77	15.18	22.77	15.18		
4205+78.69	4208+14.77	LT	236.08	9.30			2195.54								0.073	0.049	0.316	0.210	146.37	97.58	146.37	97.58		
128+28.25	133+80.04	RT	551.79	12.00	0.9969	0.9958	6600.95			915.79					0.251	0.167	1.081	0.720	501.12	334.08	501.12	334.08		
133+80.04	134+05.00	RT	24.96	11.90	0.9969	0.9958	296.10			41.43					0.011	0.008	0.049	0.032	22.50	15.00	22.50	15.00		
4157+88.17	4158+18.15	RT	30.00	CADD				317.74		50.00					0.012	0.008	0.053	0.035	24.52	16.34	24.52	16.34		
4158+18.15	4159+84.50	RT	166.35	12.68			2109.32		221.80						0.078	0.052	0.335	0.223	155.41	103.61	155.41	103.61		
4159+84.50	4161+44.10	RT	159.60	10.72	0.9845	0.9817	1684.39		208.91						0.063	0.042	0.272	0.181	126.22	84.15	126.22	84.15		
4161+44.10	4163+70.78	RT	226.68	10.00	0.9847	0.9821	2232.12		296.83						0.084	0.056	0.364	0.242	168.60	112.40	168.60	112.40		
4163+70.78	4164+98.77	RT	127.99	10.37	0.9846	0.9819	1306.82		167.56						0.049	0.033	0.212	0.141	98.29	65.53	98.29	65.53		
4164+98.77	4165+91.66	RT	92.89	11.14			1034.79		123.85						0.039	0.026	0.167	0.111	77.24	51.50	77.24	51.50		
4165+91.66	4166+21.70	RT	30.00	CADD				326.70		50.00					0.013	0.008	0.054	0.036	25.11	16.74	25.11	16.74		
4170+04.52	4170+85.14	RT	80.62	7.22	0.9928	0.9918	577.89			133.26					0.024	0.016	0.102	0.068	47.41	31.61	47.41	31.61		
4170+85.14	4171+05.03	RT	19.89	13.66	0.9919	0.9901	269.50								0.009	0.006	0.039	0.026	17.97	11.98	17.97	11.98		
4171+05.03	4171+61.45	RT	56.42	12.70	0.9921	0.9904	710.87								0.024	0.016	0.102	0.068	47.39	31.59	47.39	31.59		
4171+61.45	4172+00.00	RT	38.55	11.75	0.9922	0.9906	449.43								0.015	0.010	0.065	0.043	29.96	19.97	29.96	19.97		
4172+00.00	4172+63.03	RT	63.03	11.25	0.9922	0.9908	703.56						46.90	31.27	0.023	0.016								
4172+63.03	4173+97.24	RT	134.21	8.75	0.9926	0.9914	1165.65						77.71	51.81	0.039	0.026								
4177+32.47	4177+77.84	RT	45.37	15.52	0.9917	0.9897	698.30				82.32		52.04	34.69	0.026	0.017								
4177+77.84	4180+82.06	RT	304.22	16.30			4958.79				557.74		367.77	245.18	0.184	0.123								
4180+82.06	4182+00.31	RT	118.25	17.10			2022.08				216.79				0.075	0.050	0.322	0.215	149.26	99.51	149.26	99.51		
4182+00.31	4183+25.00	RT	124.69	18.80			2344.17				228.60				0.086	0.057	0.370	0.247	171.52	114.35	171.52	114.35		
4183+25.00	4183+88.93	RT	63.93	19.20			1227.46				117.20				0.045	0.030	0.193	0.129	89.64	59.76	89.64	59.76		
4183+88.93	4186+04.15	RT	215.22	14.33			3084.10			358.70					0.115	0.077	0.495	0.330	229.52	153.01	229.52	153.01		
4186+04.15	4186+20.50	RT	16.35	10.29	1.0101	1.0119	169.94			27.57					0.007	0.004	0.028	0.019	13.17	8.78	13.17	8.78		
4186+20.50	4186+25.00	RT	4.50	10.00	1.0100	1.0117	45.45			7.59					0.002	0.001	0.008	0.005	3.54	2.36	3.54	2.36		
4186+25.00	4189+50.00	RT	325.00	10.00	1.0100	1.0117	3282.50			548.00					0.128	0.085	0.551	0.367	255.37	170.24	255.37	170.24		
4189+50.00	4191+20.51	RT	170.51	7.22	1.0094	1.0106	1242.65			287.20					0.051	0.034	0.220	0.147	101.99	67.99	101.99	67.99		
4191+20.51	4191+57.05	RT	36.54	4.43	1.0088	1.0088	163.30			61.44					0.007	0.005	0.032	0.022	14.98	9.99	14.98	9.99		
4191+57.05	4192+72.36	RT	115.31	4.22	1.0088	1.0088	490.89					407.14			0.030	0.020	0.129	0.086	59.87	39.91	59.87	39.91		
TOTALS CARRIED TO PAVEMENT SUBSUMMARY													**545**	**363**	**2.2**	**1.5**	**8.2**	**5.5**	**3775**	**2517**	**3775**	**2517**		

CALCULATED CJC

CHECKED CWL

SUBGRADE CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 16" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 42" EXTENSION	204 SUBGRADE COMPACTION		204 PROOF ROLLING (1 HOUR/2000 SQ YD)		206 CEMENT (0.75 x 115 x 0.05) LB/SY		206 CURING COAT		206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP			
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SY		HOUR		TON		SY		SY			
													01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV		
EASTBOUND I.R. 70																								
FULL DEPTH SHOULDER CONT'D																								
4192+72.36	4192+82.76	RT	10.40	4.25	1.0088	1.0088	44.60			17.49					0.002	0.001	0.009	0.006	4.14	2.76	4.14	2.76		
4192+82.76	4193+32.76	RT	50.00	7.13	1.0093	1.0093	359.82			84.11					0.015	0.010	0.064	0.043	29.60	19.73	29.60	19.73		
4193+32.76	4193+45.18	RT	12.42	10.00	1.0098	1.0098	125.42			20.90					0.005	0.003	0.021	0.014	9.75	6.50	9.75	6.50		
4193+45.18	4195+94.13	RT	248.95	10.00			2489.50			414.92					0.097	0.065	0.418	0.278	193.63	129.09	193.63	129.09		
4195+94.13	4197+44.64	RT	150.51	9.92			1493.06			250.85					0.058	0.039	0.251	0.167	116.26	77.51	116.26	77.51		
4197+44.64	4197+98.56	RT	53.92	9.90			533.81					188.72			0.024	0.016	0.104	0.069	48.17	32.11	48.17	32.11		
4197+98.56	4200+64.05	RT	265.49	9.97			2646.94								0.088	0.059	0.380	0.254	176.46	117.64	176.46	117.64		
4200+64.05	4200+89.05	RT	25.00	11.48			287.00			41.67					0.011	0.007	0.047	0.031	21.91	14.61	21.91	14.61		
4200+89.05	4205+28.94	RT	439.89	13.00			5718.57			733.15					0.215	0.143	0.927	0.618	430.11	286.74	430.11	286.74		
NORTHBOUND I.R. 71																								
FULL DEPTH LANES																								
252+86.40	254+00.38	LT	113.98	24.00			2735.52								0.076	0.076	0.328	0.328	151.97	151.97	151.97	151.97		
254+00.38	262+00.00	LT	799.62	24.00	1.0031		19250.37								0.535	0.535	2.306	2.306	1069.47	1069.47	1069.47	1069.47		
262+00.00	264+34.96	LT	234.96	24.00	1.0031		5656.52						314.25	314.25	0.157	0.157								
264+34.96	266+34.96	LT	200.00	24.00	1.0110		4852.80						269.60	269.60	0.135	0.135								
266+34.96	269+00.00	LT	265.04	24.00	1.0188		6480.55						360.03	360.03	0.180	0.180								
269+00.00	271+02.18	LT	202.18	24.00	1.0188		4943.54								0.137	0.137	0.592	0.592	274.64	274.64	274.64	274.64		
271+02.18	272+46.34	LT	144.16	24.00	1.0010		3463.30								0.096	0.096	0.415	0.415	192.41	192.41	192.41	192.41		
272+46.34	273+78.43	LT	132.09	24.00	1.0168		3223.42								0.090	0.090	0.386	0.386	179.08	179.08	179.08	179.08		
252+86.40	254+00.38	RT	113.98	6.00			683.88								0.019	0.019	0.082	0.082	37.99	37.99	37.99	37.99		
254+00.38	257+13.02	RT	312.64	12.00	0.9984		3745.68								0.104	0.104	0.449	0.449	208.09	208.09	208.09	208.09		
264+34.96	266+34.96	RT	200.00	2.25	0.9990		449.55						24.98	24.98	0.012	0.012								
266+34.96	269+00.00	RT	265.04	4.50	0.9965		1188.51						66.03	66.03	0.033	0.033								
269+00.00	269+78.10	RT	78.10	4.50	0.9965		350.22								0.010	0.010	0.042	0.042	19.46	19.46	19.46	19.46		
269+78.10	271+02.18	RT	124.08	3.30	0.9974		408.40								0.011	0.011	0.049	0.049	22.69	22.69	22.69	22.69		
271+02.18	271+78.10	RT	75.92	1.05	1.0000		79.72								0.002	0.002	0.010	0.010	4.43	4.43	4.43	4.43		
FULL DEPTH SHOULDER																								
258+66.99	258+90.12	LT	25.00	10.00			250.00			41.67					0.008	0.008	0.035	0.035	16.20	16.20	16.20	16.20		
258+66.99	262+00.00	LT	333.01	4.00	1.0068	1.0073	1341.10		447.25						0.050	0.050	0.214	0.214	99.35	99.35	99.35	99.35		
262+00.00	264+34.96	LT	234.96	4.00	1.0068	1.0073	946.23		315.57				70.10	70.10	0.035	0.035								
264+34.96	266+34.96	LT	200.00	4.00	1.0238	1.0257	819.04		273.52				60.70	60.70	0.030	0.030								
266+34.96	269+00.00	LT	265.04	4.00	1.0408	1.0440	1103.41		368.94				81.80	81.80	0.041	0.041								
269+00.00	271+02.18	LT	202.18	4.00	1.0408	1.0440	841.72		281.43						0.031	0.031	0.135	0.135	62.40	62.40	62.40	62.40		
271+02.18	271+82.90	LT	80.72	4.00	1.0023	1.0024	323.62		107.88						0.012	0.012	0.052	0.052	23.97	23.97	23.97	23.97		
271+82.90	272+01.00	LT	18.10	4.00	1.0023	1.0024	72.57			30.24					0.003	0.003	0.012	0.012	5.71	5.71	5.71	5.71		
272+01.00	272+46.34	LT	45.34	4.00	1.0023	1.0024	181.78					159.07			0.009	0.009	0.041	0.041	18.94	18.94	18.94	18.94		
272+46.34	272+50.00	LT	3.66	4.00	1.0363	1.0391	15.17					13.31			0.001	0.001	0.003	0.003	1.58	1.58	1.58	1.58		
272+50.00	273+98.00	LT	148.00	4.00	1.0363	1.0391	613.49		205.05						0.023	0.023	0.098	0.098	45.47	45.47	45.47	45.47		
252+86.40	253+86.40	RT	100.00	12.00			1200.00								0.033	0.033	0.144	0.144	66.67	66.67	66.67	66.67		
253+86.40	254+00.38	RT	13.98	10.00			139.80								0.004	0.004	0.017	0.017	7.77	7.77	7.77	7.77		
254+00.38	257+13.02	RT	312.64	10.00	0.9987		3122.34								0.087	0.087	0.374	0.374	173.46	173.46	173.46	173.46		
260+86.40	262+00.00	RT	113.60	12.00	0.9984	0.9969	1361.02		151.00						0.042	0.042	0.181	0.181	84.00	84.00	84.00	84.00		
262+00.00	264+34.96	RT	234.96	12.00	0.9984	0.9969	2815.01		312.31				173.74	173.74	0.087	0.087								
264+34.96	265+60.00	RT	125.04	12.00	0.9924	0.9869	1489.08		164.54				91.87	91.87	0.046	0.046								
265+60.00	266+10.00	RT	50.00	13.00	0.9920	0.9860	644.80		65.73				39.47	39.47	0.020	0.020								
266+10.00	266+34.96	RT	24.96	14.00	0.9915	0.9851	346.47			40.98			21.53	21.53	0.011	0.011								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY													**1575**	**1575**	**2.7**	**2.6**	**8.2**	**7.5**	**3796**	**3453**	**3796**	**3453**		

CALCULATED CJC

CHECKED CWL

SUBGRADE CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 16" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 42" EXTENSION	204 SUBGRADE COMPACTION		204 PROOF ROLLING (1 HOUR/2000 SQ YD)		206 CEMENT (0.75 x 115 x 0.05) LB/SY		206 CURING COAT		206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP			
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SY		HOUR		TON		SY		SY			
													01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV		
NORTHBOUND I.R. 71																								
FULL DEPTH SHOULDER CONT'D																								
266+34.96	269+00.00	RT	265.04	14.00	0.9819	0.9709	3643.40			428.88			226.24	226.24	0.113	0.113								
269+00.00	269+78.10	RT	78.10	14.00	0.9819	0.9709	1073.61			126.38					0.033	0.033	0.144	0.144	66.67	66.67	66.67	66.67		
269+78.10	270+80.00	RT	101.90	14.00	0.9855	0.9745	1405.91			165.50					0.044	0.044	0.188	0.188	87.30	87.30	87.30	87.30		
270+80.00	270+85.00	RT	5.00	14.00	0.9855	0.9745	68.99					17.05			0.002	0.002	0.010	0.010	4.78	4.78	4.78	4.78		
270+85.00	271+02.18	RT	17.18	13.66	0.9857	0.9750	231.32					58.63			0.008	0.008	0.035	0.035	16.11	16.11	16.11	16.11		
271+02.18	271+35.00	RT	32.82	12.66	0.9993	0.9987	415.21					114.72			0.015	0.015	0.063	0.063	29.44	29.44	29.44	29.44		
271+35.00	271+78.10	RT	43.10	12.00	0.9993	0.9988	516.84					150.67			0.019	0.019	0.080	0.080	37.08	37.08	37.08	37.08		
271+78.10	272+46.34	RT	68.24	12.00	0.9995	0.9990	818.47					238.60			0.029	0.029	0.127	0.127	58.73	58.73	58.73	58.73		
272+46.34	272+46.93	RT	0.59	12.00	0.9916	0.9832	7.02					2.03			0.000	0.000	0.001	0.001	0.50	0.50	0.50	0.50		
272+46.93	273+05.93	RT	59.00	13.75	0.9904	0.9808	803.46					202.54			0.028	0.028	0.121	0.121	55.89	55.89	55.89	55.89		
273+05.93	273+56.18	RT	50.25	13.70	0.9904	0.9809	681.82					172.52			0.024	0.024	0.102	0.102	47.46	47.46	47.46	47.46		
RAMP A5																								
FULL DEPTH LANES																								
5003+23.96	5004+66.41	LT	142.45	12.00	1.0039		1716.07									0.095		0.411		190.67		190.67		
5004+66.41	5006+94.28	LT	227.87	14.00	1.0046		3204.85									0.178		0.768		356.09		356.09		
5006+94.28	5007+72.64	LT	78.36	16.00	1.0052		1260.28									0.070		0.302		140.03		140.03		
5007+72.64	5008+50.00	LT	77.36	16.00			1237.76									0.069		0.297		137.53		137.53		
5008+50.00	5012+18.10	LT	368.10	16.00			5889.60							654.40		0.327								
5012+18.10	5015+06.97	LT	288.87	16.00	1.0158		4694.95							521.66		0.261								
FULL DEPTH SHOULDER																								
5006+94.28	5007+72.64	LT	78.36	4.00	1.0092	1.0105	316.32		105.58							0.023		0.101		46.88		46.88		
5007+72.64	5008+50.00	LT	77.36	4.00			309.44		103.15							0.023		0.099		45.84		45.84		
5008+50.00	5012+18.10	LT	368.10	4.00			1472.40		490.80					218.13		0.109								
5012+18.10	5015+07.72	LT	289.62	4.00	1.0277	1.0316	1190.57		398.36					176.55		0.088								
5003+23.96	5004+50.00	RT	126.04	10.00	0.9967	0.9935	1256.24		166.96							0.079		0.341		158.13		158.13		
5004+50.00	5004+66.41	RT	16.41	10.00	0.9967	0.9935	163.56		21.74							0.010		0.044		20.59		20.59		
5004+66.41	5006+94.28	RT	227.87	10.00	0.9967	0.9935	2271.18		301.85							0.143		0.616		285.89		285.89		
5006+94.28	5007+44.28	RT	50.00	9.00	0.9971	0.9941	448.70		66.27							0.029		0.123		57.22		57.22		
5007+44.28	5007+72.64	RT	28.36	8.00	0.9974	0.9948	226.29		37.62							0.015		0.063		29.32		29.32		
5007+72.64	5008+50.00	RT	77.36	8.00			618.88		103.15							0.040		0.173		80.23		80.23		
5008+50.00	5012+18.10	RT	368.10	8.00			2944.80		490.80					381.73		0.191								
5012+18.10	5013+90.00	RT	171.90	8.00	0.9921	0.9842	1364.34		225.58					176.66		0.088								
5013+90.00	5014+34.17	RT	44.17	8.00	0.9921	0.9842	350.57			72.45				47.00		0.024								
5014+34.17	5015+05.98	RT	71.81	8.00	0.9921	0.9842	569.94					247.36		90.81		0.045								
RAMP C3																								
FULL DEPTH LANES																								
3000+16.87	3002+46.97	LT	230.10	14.00	1.0009		3224.30						358.26		0.179									
3002+46.97	3002+88.88	LT	41.91	16.00	1.0010		671.23						74.58		0.037									
3002+88.88	3004+13.88	LT	125.00	16.00	1.0108		2021.60						224.62		0.112									
3004+13.88	3005+50.00	LT	136.12	16.00	1.0164		2213.64						245.96		0.123									
3005+50.00	3007+82.91	LT	232.91	16.00	1.0164		3787.68								0.210		0.907		420.85		420.85			
3007+82.91	3009+00.00	LT	117.09	16.00			1873.44								0.104		0.449		208.16		208.16			
FULL DEPTH SHOULDER																								
3004+35.94	3005+50.00	LT	114.06	4.00	1.0369	1.0410	473.08		158.32				70.16		0.035									
3005+50.00	3007+82.91	LT	232.91	4.00	1.0369	1.0410	966.02		323.28						0.072		0.309		143.26		143.26			
TOTALS CARRIED TO PAVEMENT SUBSUMMARY													**1200**	**2494**	**1.2**	**2.3**	**2.6**	**4.3**	**1177**	**1953**	**1177**	**1953**		

CALCULATED CJC

CHECKED CWL

SUBGRADE CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 16" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 42" EXTENSION	204 SUBGRADE COMPACTION		204 PROOF ROLLING (1 HOUR/2000 SQ YD)		206 CEMENT (0.75 x 115 x 0.05) LB/SY		206 CURING COAT		206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP			
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SY		HOUR		TON		SY		SY			
													01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV		
				RAMP C3																				
FULL DEPTH SHOULDER CONT'D																								
3007+82.91	3008+75.00	LT	92.09	4.00			368.36		122.79						0.027		0.118		54.57		54.57			
3008+75.00	3009+00.00	LT	25.00	3.54			88.50		33.33						0.007		0.029		13.54		13.54			
3000+16.87	3002+88.88	RT	272.01	10.00	0.9993	0.9987	2718.20						302.02		0.151									
3002+88.88	3003+50.00	RT	61.12	10.00	0.9932	0.9865	607.04						67.45		0.034									
3003+50.00	3004+13.88	RT	63.88	10.00	0.9932	0.9865	634.46					220.56	95.00		0.048									
3004+13.88	3004+35.94	RT	22.06	10.00	0.9897	0.9795	218.33					75.63	32.66		0.016									
3004+35.94	3005+35.94	RT	100.00	8.00	0.9918	0.9836	793.44		131.15				102.73		0.051									
3005+35.94	3005+50.00	RT	14.06	6.00	0.9938	0.9877	83.84		18.52				11.37		0.006									
3005+50.00	3007+82.91	RT	232.91	6.00	0.9938	0.9877	1388.80		306.73						0.094		0.406		188.39		188.39			
3007+82.91	3008+00.00	RT	17.09	6.00			102.54		22.79						0.007		0.030		13.93		13.93			
3008+00.00	3009+00.00	RT	100.00	7.86			786.00		133.33						0.051		0.220		102.15		102.15			
				RAMP C5																				
FULL DEPTH LANES																								
5024+38.21	5028+92.28	LT	454.07	6.00	1.0006		2726.05									0.151		0.653		302.89		302.89		
5028+92.28	5031+34.48	LT	242.20	12.00	1.0012		2909.89									0.162		0.697		323.32		323.32		
5032+67.33	5034+97.48	LT	230.15	12.00	1.0012		2765.11							307.23		0.154								
5034+97.48	5036+30.43	LT	132.95	12.00			1595.40							177.27		0.089								
5036+30.43	5039+05.43	LT	275.00	14.00			3850.00							427.78		0.214								
5039+05.43	5041+17.78	LT	212.35	16.00			3397.60							377.51		0.189								
5041+17.78	5041+57.96	LT	40.18	16.00	0.9965		640.63							71.18		0.036								
5062+27.15	5064+00.00	LT	172.85	24.00	1.0042		4165.82									0.231		0.998		462.87		462.87		
5064+00.00	5069+27.87	LT	527.87	24.00	1.0042		12722.09							1413.57		0.707								
5069+27.87	5069+99.95	LT	72.08	12.00	1.0021		866.78							96.31		0.048								
5069+99.95	5071+16.53	LT	116.58	12.00	1.0016		1401.20							155.69		0.078								
5074+42.45	5076+08.84	LT	166.39	12.00	1.0016		1999.87							222.21		0.111								
5076+08.84	5079+12.85	LT	304.01	12.00			3648.12							405.35		0.203								
5079+12.85	5080+13.82	LT	100.97	12.00	1.0031		1215.40							135.04		0.068								
5081+70.91	5081+98.63	LT	27.72	12.00	1.0031		333.67							37.07		0.019								
5081+98.63	5083+86.06	LT	187.43	12.00			2249.16							249.91		0.125								
5083+86.06	5084+20.00	LT	33.94	16.07			545.42							60.60		0.030								
5084+20.00	5084+36.06	LT	16.06	22.07	1.0202		361.60							40.18		0.020								
5084+36.06	5084+56.78	LT	20.72	24.00	1.0220		508.22							56.47		0.028								
5024+38.21	5031+36.49	RT	698.28	12.00	0.9988		8369.30									0.465		2.005		929.92		929.92		
5032+65.33	5034+83.90	RT	218.57	12.00	0.9988		2619.69							291.08		0.146								
5062+06.35	5064+00.00	RT	193.65	12.00	0.9979		2318.92									0.129		0.556		257.66		257.66		
5064+00.00	5069+99.95	RT	599.95	12.00	0.9979		7184.28							798.25		0.399								
5069+99.95	5071+18.62	RT	118.67	12.00	0.9984		1421.76							157.97		0.079								
5074+40.30	5076+08.84	RT	168.54	12.00	0.9984		2019.24							224.36		0.112								
5076+08.84	5079+12.85	RT	304.01	12.00			3648.12							405.35		0.203								
5079+12.85	5080+15.86	RT	103.01	12.00	0.9969		1232.29							136.92		0.068								
5081+68.82	5081+98.63	RT	29.81	12.00	0.9969		356.61							39.62		0.020								
5081+98.63	5084+20.00	RT	221.37	12.00			2656.44							295.16		0.148								
5084+20.00	5084+56.78	RT	36.78	12.00	0.9890		436.51							48.50		0.024								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY													**612**	**6631**	**0.5**	**4.5**	**0.9**	**5.0**	**373**	**2277**	**373**	**2277**		

CALCULATED CJC

CHECKED CWL

SUBGRADE CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 16" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 42" EXTENSION		204 SUBGRADE COMPACTION		204 PROOF ROLLING (1 HOUR/2000 SQ YD)		206 CEMENT (0.75 x 115 x 0.05) LBI/SY		206 CURING COAT		206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP		
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF		SY		HOUR		TON		SY		SY		
														01/NHS/PV		01/NHS/PV		01/NHS/PV		01/NHS/PV		01/NHS/PV		
			RAMP C5																					
FULL DEPTH SHOULDER																								
5032+63.73	5034+97.48	LT	233.75	10.00	1.0035	1.0045	2345.68			391.34				304.11		0.152								
5034+97.48	5036+25.00	LT	127.52	10.00			1275.20			212.53				165.30		0.083								
5036+25.00	5036+30.43	LT	5.43	10.00			54.30		7.24					6.84		0.003								
5036+30.43	5039+05.43	LT	275.00	8.00			2200.00		366.67					285.19		0.143								
5039+05.43	5041+17.78	LT	212.35	6.00			1274.10		283.13					173.03		0.087								
5041+17.78	5041+34.21	LT	16.43	6.00	0.9935	0.9921	97.94		21.73					13.30		0.007								
5041+34.21	5041+57.96	LT	23.75	6.00	0.9935	0.9921	141.57			39.27				20.09		0.010								
5062+50.38	5062+68.89	LT	18.51	CADD				227.95		30.85						0.014		0.007		3.43		3.43		
5062+68.89	5064+00.00	LT	131.11	10.00	1.0101	1.0119	1324.34		176.89							0.083		0.360		166.80		166.80		
5064+00.00	5069+27.87	LT	527.87	10.00	1.0101	1.0119	5332.01		712.20					671.58		0.336								
5074+89.25	5076+08.84	LT	119.59	4.00	1.0037	1.0042	480.13		160.12					71.14		0.036								
5076+08.84	5079+00.00	LT	291.16	4.00			1164.64		388.21					172.54		0.086								
5079+00.00	5079+12.85	LT	12.85	4.00			51.40							5.71		0.003								
5079+12.85	5080+10.75	LT	97.90	4.00	1.0073	1.0084	394.46							43.83		0.022								
5081+66.63	5081+98.63	LT	32.00	4.00	1.0073	1.0084	128.93			53.78				20.30		0.010								
5081+98.63	5084+20.00	LT	221.37	4.00			885.48			368.95				139.38		0.070								
5084+20.00	5084+36.06	LT	16.06	4.00	1.0331	1.0368	66.37			27.75				10.46		0.005								
5084+36.06	5084+56.78	LT	20.72	4.00	1.0476	1.0513	86.83							9.65		0.005								
5024+38.21	5025+38.21	RT	100.00	10.95	0.9964	0.9953	1091.06		132.71							0.068		0.293		135.97		135.97		
5025+38.21	5030+50.04	RT	511.83	10.00	0.9965	0.9955	5100.39		679.37							0.321		1.385		642.20		642.20		
5030+50.04	5031+00.04	RT	50.00	14.00	0.9961	0.9947	697.27		66.31							0.042		0.183		84.84		84.84		
5031+00.04	5031+23.25	RT	23.21	17.45	0.9958	0.9940	403.31			38.45						0.025		0.106		49.08		49.08		
5031+23.25	5031+35.85	RT	12.60	16.61	0.9959	0.9942	208.43									0.012		0.050		23.16		23.16		
5032+69.04	5033+86.76	RT	117.72	10.94	0.9964	0.9953	1283.22							142.58		0.071								
5033+86.76	5034+83.94	RT	97.18	10.00	0.9965	0.9955	968.40							107.60		0.054								
5039+05.43	5041+17.78	RT	212.35	6.00			1274.10		283.13					173.03		0.087								
5041+17.78	5041+32.96	RT	15.18	6.00	1.0013	1.0026	91.20		20.29					12.39		0.006								
5041+32.96	5041+57.96	RT	25.00	6.00	1.0013	1.0026	150.20			41.78				21.33		0.011								
5061+87.48	5062+01.26	RT	13.78	CADD				78.03		22.97						0.006		0.006		2.55		2.55		
5062+01.26	5063+64.00	RT	162.74	10.00	0.9941	0.9923	1617.80		215.32							0.102		0.439		203.68		203.68		
5063+64.00	5064+00.00	RT	36.00	10.00	0.9941	0.9923	357.88									0.020		0.086		39.76		39.76		
5064+00.00	5066+50.00	RT	250.00	10.00	0.9941	0.9923	2485.25							276.14		0.138								
5066+50.00	5069+99.95	RT	349.95	10.00	0.9941	0.9923	3478.85		463.01					437.98		0.219								
5069+99.95	5070+95.32	RT	95.37	10.00	0.9955	0.9942	949.41		126.42					119.54		0.060								
5070+95.32	5071+25.49	RT	30.17	CADD				263.63		50.28				34.88		0.017								
5074+49.39	5076+08.84	RT	159.45	10.00	0.9955	0.9942	1587.32							176.37		0.088								
5076+08.84	5079+12.85	RT	304.01	10.00			3040.10							337.79		0.169								
5079+12.85	5080+17.60	RT	104.75	10.00	0.9911	0.9885	1038.18							115.35		0.058								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY														4068		2.8		3.0		1352		1352		

CALCULATED CJC

CHECKED CWL

SUBGRADE CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 6" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION		204 SUBGRADE COMPACTION		204 PROOF ROLLING (1 HOUR/2000 SQ YD)		206 CEMENT (0.75 x 115 x 0.05) LB/SY		206 CURING COAT		206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP		
FROM	TO		FT	FT			SF	SF		SF	SF	SF		SY		HOUR		TON		SY		SY		
														01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV	
			RAMP C5																					
FULL DEPTH SHOULDER CONTD.																								
5081+76.21	5081+98.63	RT	22.42	10.00	0.9911	0.9885	222.20								24.69		0.012							
5081+98.63	5084+20.00	RT	221.37	10.00			2213.70								245.97		0.123							
5084+20.00	5084+56.78	RT	36.78	10.00	0.9688	0.9597	356.32								39.59		0.020							
			RAMP C6																					
FULL DEPTH LANES																								
6000+00.00	6001+83.07	LT	183.07	12.00			2196.84								244.09		0.122							
6005+03.02	6010+12.24	LT	509.22	12.00	1.0022		6124.08								680.45		0.340							
6010+12.24	6010+81.51	LT	69.27	12.00	1.0016		832.57								92.51		0.046							
6010+81.51		RT			CADD			17.50							1.94		0.001							
FULL DEPTH SHOULDER															0.00		0.000							
6000+00.00	6000+50.00	LT	50.00	9.00			450.00			66.67					57.41		0.029							
6000+50.00	6001+51.38	LT	101.38	8.00			811.04			135.17					105.13		0.053							
6001+51.38	6001+80.33	LT	28.95	8.00			231.60			38.60					30.02		0.015							
6004+99.82	6005+66.44	LT	66.62	8.00	1.0059	1.0074	536.10				111.85				71.99		0.036							
6005+66.44	6006+03.73	LT	37.29	8.00	1.0059	1.0074	300.08				62.61				40.30		0.020							
6006+03.73	6006+78.48	LT	74.75	8.00	1.0059	1.0074	601.53								66.84		0.033							
6006+78.48	6007+78.48	LT	100.00	6.00	1.0055	1.0066	603.30								67.03		0.034							
6007+78.48	6009+10.70	LT	132.22	4.00	1.0052	1.0059	531.63								59.07		0.030							
6005+65.11	6005+66.44	RT	1.33	8.00			10.64			1.77					1.38		0.001							
6005+66.44	6009+00.00	RT	333.56	8.00	0.9985	0.9970	2664.48			443.41					345.32		0.173							
6009+00.00	6010+12.24	RT	112.24	10.23	0.9981	0.9962	1146.03			149.08					143.90		0.072							
6010+12.24	6010+36.04	RT	23.80	12.92	0.9983	0.9966	306.97			31.63					37.62		0.019							
6010+36.04	6010+81.51	RT	45.47	13.61	0.9982	0.9964	617.73			60.41					75.35		0.038							
6010+81.51		RT	8.32		CADD			63.38		11.09					1.23		0.001							
			GORE AREAS																					
EB I.R. 70/ RAMP C5																								
5028+92.28	5031+36.49	LT			CADD			1800.55									0.100		0.431		200.06		200.06	
RAMP C5/ RAMP C3																								
3002+46.97	3004+35.94	LT			CADD			1000.90						111.21		0.056								
NB S.R. 315/ NB I.R. 71																								
254+00.38	258+66.99	LT			CADD			3796.96								0.105	0.105	0.455	0.455	210.94	210.94	210.94	210.94	
NB I.R. 71/ RAMP A5																								
5004+66.41	5006+94.28	LT			CADD			2244.83									0.125		0.538		249.43		249.43	
RAMP C5/ RAMP C6																								
5069+27.87	5071+18.62	LT			CADD			208.55							23.17		0.012							
5074+40.30	5074+89.25	LT			CADD			1221.47							135.72		0.068							
RAMP C6/ EB I.R. 70																								
6009+10.70	6010+81.51	LT			CADD			1852.00						82.31	123.47	0.041	0.062							
TOTALS CARRIED TO PAVEMENT SUBSUMMARY														**194**	**2715**	**0.3**	**1.7**	**0.5**	**1.5**	**211**	**661**	**211**	**661**	

CALCULATED CJC

CHECKED CWL

SUBGRADE CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 6" EXTENSION	AREA FOR 12" EXTENSION	204 SUBGRADE COMPACTION		204 PROOF ROLLING (1 HOUR/2000 SQ YD)		204 GEOTEXTILE FABRIC								204 GEOGRID	
FROM	TO		FT	FT			SF	SF	SF	SF	SY		HOUR		SY								SY	
											01/NHS/PV	05/NHS/ OT/COL	01/NHS/PV	05/NHS/ OT/COL	01/NHS/PV	05/NHS/ OT/COL							01/NHS/PV	05/NHS/ OT/COL
LIVINGSTON AVE																								
FULL DEPTH																								
200+04.62	200+28.61	LT	23.99	3.75			89.96			23.99	12.66		0.006		12.66								12.66	
200+28.61	200+41.49	LT	12.88	8.52	0.9782	0.9564	107.35			12.32	13.30		0.007		13.30								13.30	
200+41.49	200+81.85	LT	40.36	10.00	0.9744	0.9488	393.27			38.29	47.95		0.024		47.95								47.95	
200+81.85	200+88.85	LT	7.00	13.50			94.50			7.00	11.28		0.006		11.28								11.28	
200+88.85	202+09.96	LT	121.11	17.00			2058.87			121.11	242.22		0.121		242.22								242.22	
202+09.96	202+16.96	LT	7.00	13.50			94.50			7.00	11.28		0.006		11.28								11.28	
202+16.96	202+44.29	LT	27.33	10.98	0.9808	0.9617	294.32			26.28	35.62		0.018		35.62								35.62	
202+44.29	202+45.02	LT	0.73	11.98			8.75			0.73	1.05		0.001		1.05								1.05	
204+02.13	207+31.89	LT	329.76	23.00			7584.48			329.76		879.36		0.440		879.36								879.36
207+31.89	207+47.00	LT	15.11	14.82			223.93			15.11		26.56		0.013		26.56								26.56
200+04.62	200+28.61	RT	23.99	11.00			263.89			23.99	31.99		0.016		31.99								31.99	
200+28.61	200+81.85	RT	53.24	11.00	1.0282	1.0563	602.16			56.24	73.16		0.037		73.16								73.16	
200+81.85	201+01.09	RT	19.24	10.00			192.40			19.24	23.52		0.012		23.52								23.52	
200+28.61	201+01.09	RT	77.16	CADD				781.95		77.16	95.46		0.048		95.46								95.46	
201+01.09	202+16.99	RT	115.90	10.00			1159.00			115.90	141.66		0.071		141.66								141.66	
202+16.99	202+44.29	RT	27.30	11.40	1.0199	1.0398	317.41			28.39	38.42		0.019		38.42								38.42	
202+44.29	202+45.02	RT	0.73	12.80			9.34			0.73	1.12		0.001		1.12								1.12	
204+02.13	206+33.97	RT	231.84	16.00			3709.44			231.84	437.92		0.219		437.92								437.92	
206+33.97	207+00.26	RT	66.29	19.50			1292.65			66.29	150.99		0.075		150.99								150.99	
207+00.26	207+47.00	RT	46.74	24.12			1127.37			46.74	130.46		0.065		130.46								130.46	
FRONT ST																								
FULL DEPTH																								
147+75.00	147+87.46	LT	12.46	23.50			292.81			12.46	33.92		0.017		33.92								33.92	
147+87.46	148+19.22	LT	31.76	24.30			771.77			31.76	89.28		0.045		89.28								89.28	
148+19.22	148+21.47	LT	8.95	CADD				108.13		8.95	13.01		0.007		13.01								13.01	
148+21.47	148+60.51	LT	47.88	CADD				941.35		47.88	109.91		0.055		109.91								109.91	
151+19.35	151+40.35	LT	23.78	CADD				637.04		23.78	2.64		0.001		2.64								2.64	
151+40.35	151+44.35	LT	4.00	28.25			113.00			4.00	13.00		0.007		13.00								13.00	
151+44.35	152+50.00	LT	105.65	27.17			2870.51			105.65	330.68		0.165		330.68								330.68	
147+75.00	147+78.00	RT	3.00	22.79			68.37			3.00	7.93		0.004		7.93								7.93	
147+78.00	148+10.77	RT	32.77	22.75			745.52			32.77	86.48		0.043		86.48								86.48	
148+10.77	148+21.47	RT	5.20	CADD				182.64		5.20	20.87		0.010		20.87								20.87	
148+21.47	148+61.92	RT	45.47	CADD				1409.37		45.47	161.65		0.081		161.65								161.65	
151+19.35	151+44.35	RT	25.00	26.60			665.00			25.00	76.67		0.038		76.67								76.67	
151+44.35	152+18.08	RT	73.73	26.54			1956.79		36.86		4.10		0.002		4.10								4.10	
151+40.35	152+18.08	RT	84.20	7.50			631.50			84.20	9.36		0.005		9.36								9.36	
152+18.08	152+35.63	RT	17.55	26.38			462.97			17.55	1.95		0.001		1.95								1.95	
TOTALS CARRIED TO PAVEMENT SUBSUMMARY											**2462**	**906**	**1.3**	**0.5**	**2462**	**906**							**2462**	**906**

CALCULATED CJC

CHECKED CWL

SUBGRADE CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 12" EXTENSION	AREA FOR 36" EXTENSION	204 SUBGRADE COMPACTION			204 PROOF ROLLING (1 HOUR/2000 SQ YD)			204 GEOTEXTILE FABRIC					204 GEOGRID		
FROM	TO		FT	FT			SF	SF	SF	SF	SY			HOUR			SY					SY		
											01/NHS/PV	04/MPO/OT	05/NHS/ OT/COL	01/NHS/PV	04/MPO/OT	05/NHS/ OT/COL	01/NHS/PV	04/MPO/OT	05/NHS/ OT/COL			01/NHS/PV	04/MPO/OT	05/NHS/ OT/COL
FRONT ST																								
FULL DEPTH CONT'D																								
152+35.63	152+47.66	RT	12.03	26.43			317.95		12.03		36.66			0.018			36.66					36.66		
152+47.66	152+50.00	RT	2.34	26.59			62.22		2.34		7.17			0.004			7.17					7.17		
148+25.58	148+61.92	LT/RT	39.58	CADD				2162.09	39.58				244.63			0.122			244.63					244.63
151+19.35	152+39.35	LT/RT	42.78	CADD				1195.66	42.78				137.60			0.069			137.60					137.60
FULTON ST																								
FULL DEPTH																								
19+58.05	19+62.00	LT	3.95	3.94			15.56		3.95		2.17			0.001			2.17					2.17		
19+62.00	19+66.62	LT	4.62	10.20			47.12		4.62		5.75			0.003			5.75					5.75		
19+66.62	19+87.23	LT	20.61	14.64			301.73		20.61		35.82			0.018			35.82					35.82		
19+87.23	22+00.00	LT	212.77	31.00			6595.87		212.77		756.52			0.378			756.52					756.52		
22+00.00	22+40.00	LT	40.00	30.50			1220.00		40.00		140.00			0.070			140.00					140.00		
22+40.00	23+00.00	LT	60.00	30.00			1800.00		60.00		206.67			0.103			206.67					206.67		
23+00.00	23+15.00	LT	15.00	29.81			447.15		15.00		51.35			0.026			51.35					51.35		
19+87.23	20+31.62	RT	44.39	12.42			551.32				61.26			0.031			61.26					61.26		
20+31.62	20+45.00	RT	13.38	17.00			227.46				25.27			0.013			25.27					25.27		
20+45.00	20+48.42	RT	3.42	18.71			63.99				7.11			0.004			7.11					7.11		
20+48.42	21+70.99	RT	122.57	20.42			2502.88				278.10			0.139			278.10					278.10		
21+70.99	23+00.00	RT	129.01	25.00			3225.25		129.01		372.70			0.186			372.70					372.70		
23+00.00	23+15.00	RT	15.00	21.84			327.60		15.00		38.07			0.019			38.07					38.07		
MOUND ST																								
FULL DEPTH																								
11+49.86	12+53.78	LT/RT		CADD				7132.70					792.52			0.396			792.52					792.52
SOUDER AVE																								
FULL DEPTH																								
5+65.70	6+13.55	LT	47.85	CADD				185.50		143.55	36.56			0.018			36.56					36.56		
5+61.73	6+12.28	RT	50.55	CADD				190.75		151.65	38.04			0.019			38.04					38.04		
BIKE LANE																								
FULTON ST																								
19+63.11	23+15.00	LT	351.89	2.00			703.78				-78.20	78.20		-0.039	0.039		-78.20	78.20				-78.20	78.20	
LIVINGSTON AVE																								
203+66.42	204+02.12	LT	35.70	2.00			71.40				-7.93	7.93		-0.004	0.004		-7.93	7.93				-7.93	7.93	
204+02.12	207+39.28	LT	337.16	2.00			674.32				-74.92	74.92		-0.037	0.037		-74.92	74.92				-74.92	74.92	
TOTALS CARRIED TO PAVEMENT SUBSUMMARY											**1939**	**162**	**1175**	**1.0**	**0.1**	**0.6**	**1939**	**162**	**1175**			**1939**	**162**	**1175**

CALCULATED CJC

CHECKED CWL

SUBGRADE CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 6" EXTENSION	AREA FOR 36" EXTENSION	204 SUBGRADE COMPACTION		204 PROOF ROLLING (1 HOUR/2000 SQ YD)	
FROM	TO		FT	FT			SF	SF	SF	SF	SY		HOUR	
											01/NHS/PV	01/NHS/PV	01/NHS/PV	01/NHS/PV
APPROACH SLABS														
EASTBOUND I.R. 70														
126+97.69	127+27.68	LT	29.99	37.67	1.0033	1.0066	1133.45		15.09		76.57	51.05	0.038	0.026
127+96.18	128+26.12	LT	29.94	37.67	1.0033	1.0066	1131.56		15.07		76.44	50.96	0.038	0.025
175+62.88	175+92.88	LT	30.00	CADD				1180.39	15.00		79.69	53.13	0.040	0.027
176+86.60	177+16.60	LT	30.00	CADD				1145.68	15.00		77.38	51.59	0.039	0.026
126+97.69	127+27.68	RT	29.99	12.00	0.9990	0.9979	359.52				23.97	15.98	0.012	0.008
127+96.18	128+26.12	RT	29.94	12.00	0.9990	0.9979	358.92				23.93	15.95	0.012	0.008
175+62.88	175+92.88	RT	30.00	CADD				1803.28	15.00		121.22	80.81	0.061	0.040
176+86.60	177+16.60	RT	30.00	CADD				1763.00	15.00		118.53	79.02	0.059	0.040
RAMP A5														
5015+06.59	5015+36.59	LT	30.00	21.67	0.9953	0.9905	647.04		14.86			29.42		0.037
5015+06.59	5015+36.59	RT	30.00	9.67	0.9979	0.9958	289.49		14.94			13.53		0.017
RAMP C5														
5031+36.94	5031+66.94	LT	30.00	CADD				1026.12				45.61		0.057
5032+35.51	5032+65.51	LT	30.00	CADD				1134.11				50.40		0.063
5041+57.96	5041+87.96	LT	30.00	23.67	0.9948	0.9897	706.41		14.85			32.06		0.040
5061+83.35	5062+13.35	LT	30.00	35.67	0.9922	0.9844	1061.75		14.77			47.85		0.060
5071+18.62	5071+48.62	LT	30.00	12.00	1.0016	1.0031	360.58					16.03		0.020
5074+10.30	5074+40.30	LT	30.00	12.00	1.0016	1.0031	360.58					16.03		0.020
5080+15.86	5080+45.86	LT	30.00	17.67	1.0046	1.0093	532.54		15.14			24.34		0.030
5081+38.82	5081+68.82	LT	30.00	17.67	1.0046	1.0093	532.54		15.14			24.34		0.030
5031+36.94	5031+66.94	RT	30.00	23.67	0.9959	0.9917	707.19		14.88			32.09		0.040
5032+35.51	5032+65.51	RT	30.00	23.67	0.9959	0.9917	707.19		14.88			32.09		0.040
5041+57.96	5041+87.96	RT	30.00	7.67	1.0017	1.0033	230.49		15.05			10.91		0.014
5061+83.35	5062+13.35	RT	30.00	23.67	0.9959	0.9917	707.19		14.88			32.09		0.040
5071+18.62	5071+48.62	RT	30.00	23.67	0.9969	0.9938	707.90		14.91			32.12		0.040
5074+10.30	5074+40.30	RT	30.00	23.67	0.9969	0.9938	707.90		14.91			32.12		0.040
5080+15.86	5080+45.86	RT	30.00	23.67	0.9938	0.9876	705.70		14.81			32.02		0.040
5081+38.82	5081+68.82	RT	30.00	23.67	0.9938	0.9876	705.70		14.81			32.02		0.040
5084+56.78	5085+95.85	LT/RT	139.07	CADD				7243.79				321.95		0.402
RAMP C6														
6001+86.80	6002+16.50	LT	29.70	21.67	1.0028	1.0057	645.40		14.93			29.35		0.037
6004+73.62	6005+02.85	LT	29.23	21.67	1.0028	1.0057	635.19		14.70			28.88		0.036
6001+86.80	6002+16.50	RT	29.70	CADD				110.52				4.91		0.006
6004+73.62	6005+02.85	RT	29.23	CADD				548.31				24.37		0.030
FRONT ST														
148+61.91	148+86.91	LT/RT	25.00	CADD				3957.64			263.84		0.220	
150+88.81	151+19.35	LT/RT	30.54	CADD				4348.89			289.93		0.242	
TOTALS CARRIED TO PAVEMENT SUBSUMMARY											**1152**	**1344**	**0.8**	**1.4**

CALCULATED CJC

CHECKED CWL

PAVEMENT CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 6" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION		204 SUBGRADE COMPACTION			204 PROOF ROLLING (1 HOUR/2000 SQ YD)		206 CEMENT (0.75 x 115 x 0.05) LB/SY		206 CURING COAT		206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
			FT	FT			SF	SF		SF	SF	SF		SY			HOUR		TON		SY		SY	
														01/NHS/PV	01/NHS/PV		01/NHS/PV		01/NHS/PV		01/NHS/PV		01/NHS/PV	
BIKE PATH																								
FULL DEPTH																								
8+48.00	11+53.75	LT/RT	305.75	10.00			3057.50							149.48	190.24									
8+48.00	11+53.75	LT	305.75	CADD				955.12						46.69	59.43									
8+48.00	11+53.75	RT	305.75	CADD				1869.40						91.39	116.32									
BIKE PATH DETOUR																								
FULL DEPTH																								
1+37.10	2+31.62	LT/RT	94.52	10.00			945.20		94.52					50.83	64.69									
2+31.62	2+41.62	LT/RT	10.00	10.00			100.00							4.89	6.22									
2+63.67	2+73.67	LT/RT	10.00	10.00			100.00							4.89	6.22									
2+73.67	5+14.72	LT/RT	241.05	10.00			2410.50		241.05					129.63	164.99									
5+32.66	13+65.50	LT/RT	832.84	10.00			8328.40		832.84					447.88	570.03									
13+65.50	13+90.50	LT/RT	25.00	10.50			262.50		25.00					14.06	17.89									
13+90.50	21+46.63	LT/RT	756.13	11.00			8317.43		756.13					443.60	564.58									
21+46.63	21+71.63	LT/RT	25.00	10.50			262.50		25.00					14.06	17.89									
21+71.63	22+32.33	LT/RT	60.70	10.00			607.00		60.70					32.64	41.55									
TOTALS CARRIED TO PAVEMENT SUBSUMMARY														1431	1821									

CALCULATED CJC

CHECKED CWL

PAVEMENT CALCULATIONS

FRA - 70 / 71 - 12.68 / 14.86