SHEET NO.		204*		206	206	206	254	302	304	304		407		442	442	442		452		609	609	
		PROOF ROLLING (1 HOUR/2000 SY)		CEMENT (0.75 X T X 115 X 0.05)	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP	PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	7" ASPHALT CONCRETE BASE, PG64-22 (449)	4" AGGREGATE BASE	6"AGGREGATE BASE		NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)		ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT		10.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1P WITH QC/QA		CURB, TYPE 4-C	CURB, TYPE 6	
		HOUR		TON	SY	SY	SY	CY	CY	CY		GAL		CY	CY	CY		SY		FT	FT	
2		17		982	32506	32506		6138		5403		3470		1279	1532	2811				4571		
3		6		355	11733	11733		2225		1942		1256		475	554	1029				780		
4		19		1093	36182	36182		7036		6031		3981		1508	1759	3267						
5		5		256	8450	8450		1490		1396		840		316	370	686				3738		
6		5		253	8356	8356	62	1531		1389		872		331	383	710				2625		
7		5		280	9248	9248		1716		1530		969		366	427	793				1666		
8		3		124	4085	4085		725		679		410		153	181	334				1973		
9		4		198	6545	6545		79		1052		44		17	20	36		5660			729	
10		2		76	2499	2499				406								2235			977	
11		3		157	5183	5183	1637	905		843		688		257	222	410		161		400	190	
12		2		113	3742	3742	851	699		612		487		183	173	320				37		
13		3		171	5658	5658		1023		913		573		214	251	464				33	141	
14		4		200	6621	6621		1213		1079		682		255	299	554				263	180	
15		2		63	2067	2067	2388	378		335		475		180	93	173				51		
16		2		99	3279	3279		543		535		305		115	134	249		310		48	167	
23														-101								
24								147		142		81			35	35						
25		-1		-9	-293	-293			25													
TOTALS CARRIED TO THE GENERAL SUMMARY		**81**		**4411**	**145861**	**145861**	**4938**	**25848**	**24312**			**15133**		**5548**	**6433**	**11871**		**8366**		**16185**	**2384**	

SHEET NO.		209		408		441	601	609	617	617	617	618*		622	622	622	622	622	622	622	622	
		RESHAPING UNDER GUARDRAIL, AS PER PLAN		PRIME COAT, AS PER PLAN (0.4 GAL/SY)		3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	CONCRETE SLOPE PROTECTION	4" CONCRETE TRAFFIC ISLAND	WATER ((A*0.300)/1000)	COMPACTED AGGREGATE, AS PER PLAN (T=2")	SHOULDER PREPARATION	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN		CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1, AS PER PLAN	CONCRETE BARRIER END SECTION, TYPE B1	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN	BARRIER TRANSITION	
		STA		GAL		CY	SY	SY	MGAL	CY	SY	MILE		FT	FT	FT	EACH	EACH	EACH	EACH	EACH	
17		58				278																
18		42				194																
19		33				152																
20		12				55																
21				749					6	104	1873											
22				607					5	102	1872											
23												5.58										
24							1457							720	4930	30	1	6	61	8	34	
25								218														
* QUANTITY CARRIED TO GENERAL NOTES																						
TOTALS CARRIED TO THE GENERAL SUMMARY		**145**		**1356**		**679**	**1457**	**218**	**11**	**206**	**3745**	**5.58**		**720**	**4930**	**30**	**1**	**6**	**61**	**8**	**34**	

CALCULATED BMV

CHECKED NRB

PAVEMENT SUBSUMMARY

CUY-490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302	304		407	442	442	442		609			204	206	206	206
															7" ASPHALT CONCRETE BASE, PG64-22 (449)	6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT		CURB, TYPE 4-C			PROOF ROLLING (1 HOUR/2000 SY)	CEMENT (0.75 X T X 115 X 0.05) LB/SY	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY		FT			HOUR	TON	SY	SY
WESTBOUND I-490 CL																													
FULL DEPTH LANES																													
933+23.03	939+72.56	LT	649.53	24.00			15588.72								336.79	288.68		190.53	72.17	84.20	156.37					0.866	52.29	1732.08	1732.08
939+72.56	941+22.99	LT	150.43	24.00			3610.32								78.00	66.86		44.13	16.71	19.50	36.21					0.201	12.11	401.15	401.15
941+22.99	952+52.46	LT	1129.47	24.00	0.9949		26969.03								582.66	499.43		329.62	124.86	145.67	270.53					1.498	90.46	2996.56	2996.56
952+52.46	954+92.35	LT	239.89	24.00			5757.36								124.39	106.62		70.37	26.65	31.10	57.75					0.320	19.31	639.71	639.71
954+92.35	961+56.74	LT	664.39	24.00			15945.36								344.50	295.28		194.89	73.82	86.12	159.94					0.886	53.48	1771.71	1771.71
961+56.74	962+17.51	LT	60.77	24.00			1458.48								31.51	27.01		17.83	6.75	7.88	14.63					0.081	4.89	162.05	162.05
962+17.51	964+68.90	LT	251.39	24.00	1.0061		6070.16								131.15	112.41		74.19	28.10	32.79	60.89					0.337	20.36	674.46	674.46
964+68.90	967+84.10	LT	315.20	48.00	1.0092		15268.79								329.88	282.76		186.62	70.69	82.47	153.16					0.848	51.21	1696.53	1696.53
967+84.10	970+84.57	LT	300.47	48.00			14422.56								311.60	267.08		176.28	66.77	77.90	144.67					0.801	48.38	1602.51	1602.51
970+84.57	975+78.77	LT	494.20	48.00			23721.60								512.50	439.29		289.93	109.82	128.13	237.95					1.318	79.57	2635.73	2635.73
975+78.77	979+78.58	LT	399.81	48.00	0.9944		19083.41								412.30	353.40		233.24	88.35	103.07	191.42					1.060	64.01	2120.38	2120.38
979+78.58	983+54.13	LT	375.55	48.00	0.9888		17824.50								385.10	330.08		217.86	82.52	96.27	178.79					0.990	59.79	1980.50	1980.50
983+54.13	985+50.00	LT	195.87	48.00	0.9944		9349.11								201.99	173.13		114.27	43.28	50.50	93.78					0.519	31.36	1038.79	1038.79
985+50.00	985+65.28	CADD						706.84							15.27	13.09		8.64	3.27	3.82	7.09					0.039	2.37	78.54	78.54
985+65.28	1020+43.75	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																											
1020+43.75	1020+61.30	CADD						211.60							4.57	3.92		2.59	0.98	1.14	2.12					0.012	0.71	23.51	23.51
1020+61.30	1022+51.23	LT	189.93	24.00	1.0029		4571.54								98.77	84.66		55.87	21.16	24.69	45.85					0.254	15.33	507.95	507.95
1022+51.23	1023+49.97	STATION EQUATION																											
1023+49.97	1030+87.13	LT	737.16	24.00	1.0029		17743.15								383.34	328.58		216.86	82.14	95.83	177.97					0.986	59.51	1971.46	1971.46
1030+87.13	1032+73.90	LT	186.77	24.00			4482.48								96.84	83.01		54.79	20.75	24.21	44.96					0.249	15.03	498.05	498.05
1032+73.90	1035+00.00	LT	226.10	24.00			5426.40								117.24	100.49		66.32	25.12	29.31	54.43					0.301	18.20	602.93	602.93
FULL DEPTH SHOULDER																													
933+23.03	933+71.18	LT/OUT	48.15	10.97			527.96						72.22		11.41	11.11		6.45	2.44	2.85	5.29		48.15			0.033	2.01	66.69	66.69
933+71.18	939+72.56	LT/OUT	601.38	10.00			6013.80						902.07		129.93	128.07		73.50	27.84	32.48	60.32		601.38			0.384	23.20	768.43	768.43
939+72.56	941+22.99	LT/OUT	150.43	10.00			1504.30						225.65		32.50	32.04		18.39	6.96	8.13	15.09		150.43			0.096	5.80	192.22	192.22
941+22.99	952+52.46	LT/OUT	1129.47	10.00	0.9905	0.9892	11187.40						1675.91		241.70	238.21		136.73	51.79	60.43	112.22		1117.27			0.715	43.15	1429.26	1429.26
952+52.46	954+92.35	LT/OUT	239.89	10.00			2398.90						359.83		51.83	51.09		29.32	11.11	12.96	24.07		239.89			0.153	9.25	306.53	306.53
954+92.35	958+62.77	LT/OUT	370.42	10.00			3704.20						555.63		80.03	78.89		45.27	17.15	20.01	37.16		370.42			0.237	14.29	473.31	473.31
964+68.90	967+84.10	LT/OUT	315.20	10.00	1.0166	1.0179	3204.32						481.26		69.23	68.25		39.16	14.83	17.31	32.14		320.84			0.205	12.36	409.51	409.51
967+84.10	970+84.57	LT/OUT	300.47	10.00			3004.70						450.71		64.92	63.99		36.72	13.91	16.23	30.14		300.47			0.192	11.59	383.93	383.93
970+84.57	975+78.77	LT/OUT	494.20	10.00			4942.00						741.30		106.77	105.25		60.40	22.88	26.69	49.57		494.20			0.316	19.06	631.48	631.48
975+78.77	979+78.58	LT/OUT	399.81	10.00	0.9893	0.9885	3955.32						592.82		85.45	84.22		48.34	18.31	21.36	39.67		399.81			0.253	15.26	505.35	505.35
979+78.58	981+53.10	LT/OUT	174.52	10.00	0.9770	0.9770	1705.06						255.76		36.84	36.31		20.84	7.89	9.21	17.10		170.51			0.109	6.58	217.87	217.87
981+53.10	982+03.26	LT/OUT	50.16	10.00	0.9787	0.9770	490.92		16.34	24.50	28.59			81.68	13.25	11.89		7.40	2.27	3.23	5.50					0.036	2.15	71.34	71.34
982+03.26	983+54.13	LT/OUT	150.87	10.00	0.9787	0.9770	1476.56						221.10		31.90	31.44		18.05	6.84	7.98	14.82		147.40			0.094	5.69	188.63	188.63
983+54.13	985+50.00	LT/OUT	195.87	10.00	0.9893	0.9885	1937.74						290.43		41.86	41.26		23.68	8.97	10.47	19.44		195.87			0.124	7.47	247.57	247.57
985+50.00	985+64.31	CADD						140.82					21.15		3.04	3.00		1.72	0.65	0.76	1.41		14.10			0.009	0.54	18.00	18.00
985+64.31	1020+36.48	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																											
1020+36.48	1020+43.75	CADD						36.56	2.44		4.27		10.97		0.84	0.80		0.46	0.17	0.20	0.37					0.003	0.16	5.28	5.28
1020+43.75	1022+51.23	LT/OUT	207.48	10.00	1.0054	1.0061	2086.04		69.58		121.77		313.12		46.57	42.17		25.92	9.66	11.27	20.93					0.133	8.05	266.57	266.57
1022+51.23	1023+49.97	STATION EQUATION																											
1023+49.97	1030+87.13	LT/OUT	737.16	10.00	1.0054	1.0061	7411.41		247.22		432.63		1112.49		165.46	149.84		92.09	8.97	40.03	49.00					0.474	28.59	947.10	947.10
1030+87.13	1032+73.90	LT/OUT	186.77	10.00			1867.70		62.26		108.95		280.15		41.70	37.76		23.21	0.00	10.09	10.09					0.119	7.20	238.65	238.65
1032+73.90	1035+00.00	LT/OUT	226.10	10.00			2261.00		75.37		131.89		339.15		50.48	45.71		28.10	10.47	12.21	22.68					0.144	8.72	288.91	288.91
933+23.03	939+72.56	LT/IN	649.53	8.00			5196.24								112.26	96.23		63.51	24.06	28.07	52.13					0.289	17.43	577.36	577.36
939+72.56	941+22.99	LT/IN	150.43	8.00			1203.44								26.00	22.29		14.71	5.57	6.50	12.07					0.067	4.04	133.72	133.72
941+22.99	952+52.46	LT/IN	1129.47	8.00	0.9990	0.9979	9026.72								195.02	167.16		110.33	41.79	48.76	90.55					0.501	30.28	1002.97	1002.97
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**6138**	**5403**		**3470**	**1279**	**1532**	**2811**		**4571**			**17**	**982**	**32506**	**32506**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY-490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302 7" ASPHALT CONCRETE BASE, PG64-22 (449)	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C			204 PROOF ROLLING (1 HOUR/2000 SY)	206 CEMENT (0.75 X T X 115 X 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY		FT			HOUR	TON	SY	SY
		WESTBOUND I-490 CL CONTD.																											
FULL DEPTH SHOULDER																													
952+52.46	953+05.64	LT/IN	53.18	8.00			425.44								9.19	7.88		5.20	1.97	2.30	4.27					0.024	1.43	47.27	47.27
953+05.64	954+92.35	LT/IN	186.71	8.00			1493.68								32.27	27.66		18.26	6.92	8.07	14.99					0.083	5.01	165.96	165.96
954+92.35	955+90.00	LT/IN	97.65	8.00			781.20								16.88	14.47		9.55	3.62	4.22	7.84					0.043	2.62	86.80	86.80
955+90.00	958+50.00	LT/IN	260.00	10.00			2600.00								56.17	48.15		31.78	12.04	14.04	26.08					0.144	8.72	288.89	288.89
958+50.00	961+56.74	LT/IN	306.74	12.00			3680.88								79.53	68.16		44.99	17.04	19.88	36.92					0.204	12.35	408.99	408.99
961+56.74	962+17.51	LT/IN	60.77	12.00			729.24								15.76	13.50		8.91	3.38	3.94	7.32					0.041	2.45	81.03	81.03
962+17.51	967+84.10	LT/IN	566.59	12.00	1.0015		6809.28								147.11	126.10		83.22	31.52	36.78	68.30					0.378	22.84	756.59	756.59
967+84.10	970+84.57	LT/IN	300.47	12.00			3605.64								77.90	66.77		44.07	16.69	19.47	36.16					0.200	12.09	400.63	400.63
970+84.57	975+78.77	LT/IN	494.20	12.00			5930.40								128.13	109.82		72.48	27.46	32.03	59.49					0.329	19.89	658.93	658.93
975+78.77	976+00.00	LT/IN	21.23	12.00	0.9990		254.51								5.50	4.71		3.11	1.18	1.37	2.55					0.014	0.85	28.28	28.28
976+00.00	978+60.00	LT/IN	260.00	10.00	0.9991		2597.66								56.12	48.10		31.75	12.03	14.03	26.06					0.144	8.71	288.63	288.63
978+60.00	979+78.58	LT/IN	118.58	8.00	0.9993		947.98								20.48	17.56		11.59	4.39	5.12	9.51					0.053	3.18	105.33	105.33
979+78.58	983+54.13	LT/IN	375.55	8.00	0.9986		3000.19								64.82	55.56		36.67	13.89	16.20	30.09					0.167	10.06	333.35	333.35
983+54.13	985+50.00	LT/IN	195.87	8.00	0.9993		1565.86								33.83	29.00		19.14	7.25	8.46	15.71					0.087	5.25	173.98	173.98
985+50.00	985+65.38	CADD						122.76							2.65	2.27		1.50	0.57	0.66	1.23					0.007	0.41	13.64	13.64
985+65.38	1020+61.30	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																											
1020+61.30	1020+67.18	CADD						23.57							0.51	0.44		0.29	0.11	0.13	0.24					0.001	0.08	2.62	2.62
1020+67.18	1022+51.23	LT/IN	184.05	8.00			1472.37								31.81	27.27		18.00	6.82	7.95	14.77					0.082	4.94	163.60	163.60
1022+51.23	1023+49.97	STATION EQUATION																											
1023+49.97	1030+87.13	LT/IN	737.16	8.00	1.0018		5907.90								127.64	109.41		72.21	27.35	31.91	59.26					0.328	19.82	656.43	656.43
1030+87.13	1032+73.90	LT/IN	186.77	8.00	1.0018		1496.85								32.34	27.72		18.29	6.93	8.08	15.01					0.083	5.02	166.32	166.32
1032+73.90	1035+00.00	LT/IN	226.10	8.00			1808.80								39.08	33.50		22.11	8.37	9.77	18.14					0.100	6.07	200.98	200.98
		WESTBOUND I-490 BL																											
FULL DEPTH LANES																													
3035+00.00	3043+00.00	LT	800.00	24.00			19200.00								414.81	355.56		234.67	88.89	103.70	192.59					1.067	64.40	2133.33	2133.33
3043+00.00	3045+17.89	LT	217.89	24.00	1.0009		5234.07								113.08	96.93		63.97	24.23	28.27	52.50					0.291	17.56	581.56	581.56
3045+17.89	3047+18.60	LT	200.71	24.00			4817.04								104.07	89.20		58.87	22.30	26.02	48.32					0.268	16.16	535.23	535.23
3047+18.60	3049+75.86	LT	257.26	24.00	1.0022		6187.82								133.69	114.59		75.63	28.65	33.42	62.07					0.344	20.76	687.54	687.54
FULL DEPTH SHOULDER																													
3035+00.00	3043+00.00	RT/IN	800.00	6.59			5275.20								113.97	97.69		64.47	24.42	28.49	52.91					0.293	17.69	586.13	586.13
3043+00.00	3045+05.00	RT/IN	205.00	6.59	0.9998	0.9995	1351.50								29.20	25.03		16.52	6.26	7.30	13.56					0.075	4.53	150.17	150.17
3045+05.00	3045+17.89	RT/IN	12.89	6.59	0.9998	0.9995	84.98						19.33		1.84	1.93		1.04	0.39	0.46	0.85		12.88			0.006	0.35	11.59	11.59
3045+17.89	3045+54.06	RT/IN	36.17	6.59			238.50						54.25		5.15	5.42		2.92	1.10	1.29	2.39		36.17			0.016	0.98	32.53	32.53
3045+54.06	3046+00.00	RT/IN	45.94	4.30			197.31						68.91		4.26	4.93		2.41	0.91	1.07	1.98		45.94			0.015	0.89	29.58	29.58
3046+00.00	3047+18.60	RT/IN	118.60	2.00			237.20						177.90		5.12	7.69		2.90	1.10	1.28	2.38		118.60			0.023	1.39	46.12	46.12
3047+18.60	3049+00.00	RT/IN	181.40	2.00	1.0002	1.0003	362.87						272.18		7.84	11.76		4.44	1.68	1.96	3.64		181.45			0.035	2.13	70.56	70.56
3049+00.00	3049+50.00	RT/IN	50.00	1.00	1.0001	1.0002	50.01						75.02		1.08	2.32		0.61	0.23	0.27	0.50		50.01			0.007	0.42	13.89	13.89
3049+50.00	3049+75.86	RT/IN	25.86	0.00	1.0000	1.0000	0.00						38.79		0.00	0.72		0.00	0.00	0.00	0.00		25.86			0.002	0.13	4.31	4.31
3035+00.00	3043+00.00	LT/OUT	800.00	10.00			8000.00		266.67		466.67		1200.00		178.60	161.73		99.41	37.04	43.21	80.25					0.511	30.86	1022.22	1022.22
3043+00.00	3045+17.89	LT/OUT	217.89	10.00	1.0021	1.0025	2183.48		72.81		127.42		327.65		48.75	44.14		27.13	10.11	11.79	21.90					0.140	8.42	279.01	279.01
3045+17.89	3047+18.60	LT/OUT	200.71	10.00			2007.10		66.90		117.08		301.06		44.81	40.58		24.94	9.29	10.84	20.13					0.128	7.74	256.46	256.46
3047+18.60	3047+65.00	LT/OUT	46.40	10.00	0.9949	0.9941	461.63		15.38		26.91		69.19		10.31	9.33		5.74	2.14	2.49	4.63					0.029	1.78	58.98	58.98
3047+65.00	3048+33.41	LT/OUT	68.41	10.00	0.9949	0.9941	680.61						102.01		14.70	14.49		8.32	3.15	3.68	6.83		68.01			0.043	2.63	86.96	86.96
3048+33.41	3048+73.41	LT/OUT	40.00	6.00	0.9953	0.9948	238.87						59.69		5.16	5.53		2.92	1.11	1.29	2.40		39.79			0.017	1.00	33.17	33.17
3048+73.41	3050+53.76	LT/OUT	180.35	2.00	0.9956	0.9955	359.11						269.31		7.76	11.64		4.39	1.66	1.94	3.60		179.54			0.035	2.11	69.82	69.82
3050+53.76	3050+62.68	LT/OUT			CADD			101.25					31.14		2.19	2.45		1.24	0.47	0.55	1.02		20.76			0.007	0.44	14.71	14.71
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**2225**	**1942**		**1256**	**475**	**554**	**1029**		**780**			**6**	**355**	**11733**	**11733**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY- 490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302	304		407	442	442	442					204	206	206	206	CALCULATED BMV / CHECKED NRB
															7" ASPHALT CONCRETE BASE, PG64-22 (449)	6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT					PROOF ROLLING (1 HOUR/2000 SY)	CEMENT (0.75 X T X 115 X 0.05) LB/SY	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP	
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY					HOUR	TON	SY	SY	
				EASTBOUND I-490 CL																										
FULL DEPTH LANES																														
933+23.03	934+25.00	RT	101.97	24.00			2447.28								52.87	45.32		29.91	11.33	13.22	24.55					0.136	8.21	271.92	271.92	
934+25.00	935+25.00	RT	100.00	30.00			3000.00								64.81	55.56		36.67	13.89	16.20	30.09					0.167	10.06	333.33	333.33	
935+25.00	938+52.62	RT	327.62	36.00			11794.32								254.82	218.41		144.15	54.60	63.70	118.30					0.655	39.56	1310.48	1310.48	
938+52.62	941+22.99	RT	270.37	36.00			9733.32								210.29	180.25		118.96	45.06	52.57	97.63					0.541	32.65	1081.48	1081.48	
941+22.99	952+52.46	RT	1129.47	36.00	1.0077		40974.01								885.24	758.78		500.79	189.69	221.31	411.00					2.276	137.43	4552.67	4552.67	
952+52.46	954+33.37	RT	180.91	36.00			6512.76								140.71	120.61		79.60	30.15	35.18	65.33					0.362	21.84	723.64	723.64	
954+33.37	958+00.00	RT	366.63	36.00			13198.68								285.16	244.42		161.32	61.11	71.29	132.40					0.733	44.27	1466.52	1466.52	
958+00.00	959+17.04	RT	117.04	59.83			7002.50								151.29	129.68		85.59	32.42	37.82	70.24					0.389	23.49	778.06	778.06	
959+17.04	962+17.51	RT	300.47	55.66			16722.66								361.29	309.68		204.39	77.42	90.32	167.74					0.929	56.09	1858.07	1858.07	
962+17.51	964+50.00	RT	232.49	50.33	0.9905		11588.91								250.38	214.61		141.64	53.65	62.59	116.24					0.644	38.87	1287.66	1287.66	
964+50.00	967+84.10	RT	334.10	48.00	0.9908		15889.26								343.29	294.25		194.20	73.56	85.82	159.38					0.883	53.30	1765.47	1765.47	
967+84.10	970+84.57	RT	300.47	48.00			14422.56								311.60	267.08		176.28	66.77	77.90	144.67					0.801	48.38	1602.51	1602.51	
970+84.57	975+78.77	RT	494.20	48.00			23721.60								512.50	439.29		289.93	109.82	128.13	237.95					1.318	79.57	2635.73	2635.73	
975+78.77	979+78.58	RT	399.81	48.00	1.0056		19298.35								416.94	357.38		235.87	89.34	104.23	193.57					1.072	64.73	2144.26	2144.26	
979+78.58	980+59.02	RT	80.44	48.00	1.0112		3904.36								84.35	72.30		47.72	18.08	21.09	39.17					0.217	13.10	433.82	433.82	
980+59.02	983+54.13	RT	295.11	70.04	1.0150		20980.36								453.28	388.53		256.43	97.13	113.32	210.45					1.166	70.37	2331.15	2331.15	
983+54.13	985+50.00	RT	195.87	65.13	1.0071		12848.15								277.58	237.93		157.03	59.48	69.40	128.88					0.714	43.09	1427.57	1427.57	
985+50.00	985+65.60	CADD						989.06							21.37	18.32		12.09	4.58	5.34	9.92					0.055	3.32	109.90	109.90	
985+65.60	1020+73.09	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																												
1020+73.09	1020+90.90	CADD						213.51							4.61	3.95		2.61	0.99	1.15	2.14					0.012	0.72	23.72	23.72	
1020+90.90	1022+51.23	RT	160.33	24.00	0.9971		3836.77								82.89	71.05		46.89	17.76	20.72	38.48					0.213	12.87	426.31	426.31	
1022+51.23	1023+49.97	STATION EQUATION																								0.000	0.00	0.00	0.00	
1023+49.97	1030+87.13	RT	737.16	24.00	0.9971		17640.53								381.12	326.68		215.61	81.67	95.28	176.95					0.980	59.17	1960.06	1960.06	
1030+87.13	1030+94.06	RT	6.93	24.00	0.9971		165.84								3.58	3.07		2.03	0.77	0.90	1.67					0.009	0.56	18.43	18.43	
1030+94.06	1035+00.00	RT	405.94	24.00			9742.56								210.49	180.42		119.08	45.10	52.62	97.72					0.541	32.68	1082.51	1082.51	
FULL DEPTH SHOULDER																														
933+23.03	937+00.00	RT/IN	376.97	8.00			3015.76								65.16	55.85		36.86	13.96	16.29	30.25					0.168	10.12	335.08	335.08	
937+00.00	938+52.62	RT/IN	152.62	9.18			1400.29								30.25	25.93		17.11	6.48	7.56	14.04					0.078	4.70	155.59	155.59	
938+52.62	939+60.00	RT/IN	107.38	11.18			1199.97								25.93	22.22		14.67	5.56	6.48	12.04					0.067	4.02	133.33	133.33	
939+60.00	941+22.99	RT/IN	162.99	12.00			1955.88								42.26	36.22		23.91	9.06	10.56	19.62					0.109	6.56	217.32	217.32	
941+22.99	952+52.46	RT/IN	1129.47	12.00	1.0015		13573.97								293.26	251.37		165.90	62.84	73.32	136.16					0.754	45.53	1508.22	1508.22	
952+52.46	954+33.37	RT/IN	180.91	12.00			2170.92								46.90	40.20		26.53	10.05	11.73	21.78					0.121	7.28	241.21	241.21	
954+33.37	959+17.04	RT/IN	483.67	12.00			5804.04								125.40	107.48		70.94	26.87	31.35	58.22					0.322	19.47	644.89	644.89	
959+17.04	962+17.51	RT/IN	300.47	12.00			3605.64								77.90	66.77		44.07	16.69	19.47	36.16					0.200	12.09	400.63	400.63	
962+17.51	967+84.10	RT/IN	566.59	12.00	0.9985		6788.88								146.67	125.72		82.98	31.43	36.67	68.10					0.377	22.77	754.32	754.32	
967+84.10	970+84.57	RT/IN	300.47	12.00			3605.64								77.90	66.77		44.07	16.69	19.47	36.16					0.200	12.09	400.63	400.63	
970+84.57	974+89.30	RT/IN	404.73	12.00			4856.76								104.93	89.94		59.36	22.49	26.23	48.72					0.270	16.29	539.64	539.64	
974+89.30	975+78.77	RT/IN	89.47	12.00			1073.64								23.20	19.88		13.12	4.97	5.80	10.77					0.060	3.60	119.29	119.29	
975+78.77	976+00.00	RT/IN	21.23	12.00	1.0010		255.01								5.51	4.72		3.12	1.18	1.38	2.56					0.014	0.86	28.33	28.33	
976+00.00	978+60.00	RT/IN	260.00	10.00	1.0009		2602.34								56.22	48.19		31.81	12.05	14.06	26.11					0.145	8.73	289.15	289.15	
978+60.00	979+78.58	RT/IN	118.58	8.00	1.0007		949.30								20.51	17.58		11.60	4.39	5.13	9.52					0.053	3.18	105.48	105.48	
979+78.58	980+59.02	RT/IN	80.44	8.00	1.0014		644.42								13.92	11.93		7.88	2.98	3.48	6.46					0.036	2.16	71.60	71.60	
980+59.02	983+54.13	RT/IN	295.11	8.00	1.0014		2364.19								51.08	43.78		28.90	10.95	12.77	23.72					0.131	7.93	262.69	262.69	
983+54.13	985+50.00	RT/IN	195.87	8.00	1.0007		1568.06								33.88	29.04		19.17	7.26	8.47	15.73					0.087	5.26	174.23	174.23	
985+50.00	985+65.50	CADD						124.22							2.68	2.30		1.52	0.58	0.67	1.25					0.007	0.42	13.80	13.80	
985+65.50	1020+67.18	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																												
1020+67.18	1020+73.09	CADD						23.61							0.51	0.44		0.29	0.11	0.13	0.24					0.001	0.08	2.62	2.62	
1020+73.09	1022+51.23	RT/IN	178.14	8.00			1425.15								30.79	26.39		17.42	6.60	7.70	14.30					0.079	4.78	158.35	158.35	
1022+51.23	1023+49.97	STATION EQUATION																												
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															7036	6031		3981	1508	1759	3267					19	1093	36182	36182	

PAVEMENT CALCULATIONS

CUY-490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302	304		407	442	442	442		609			204	206	206	206
															7" ASPHALT CONCRETE BASE, PG64-22 (449)	6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT		CURB, TYPE 4-C			PROOF ROLLING (1 HOUR/2000 SY)	CEMENT (0.75 X T X 115 X 0.05) LB/SY	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY		FT			HOUR	TON	SY	SY
		EASTBOUND I-490 CL CONTD.																											
FULL DEPTH SHOULDER																													
1023+49.97	1030+87.13	RT/IN	737.16	8.00	0.9994		5893.74								127.33	109.14		72.03	27.29	31.83	59.12					0.327	19.77	654.86	654.86
1030+87.13	1030+94.06	RT/IN	6.93	8.00			55.44								1.20	1.03		0.68	0.26	0.30	0.56					0.003	0.19	6.16	6.16
1030+94.06	1035+00.00	RT/IN	405.94	8.00			3247.52								70.16	60.14		39.69	15.03	17.54	32.57					0.180	10.89	360.84	360.84
933+23.03	933+40.45	RT/OUT	17.42	12.35			215.14						26.13		4.65	4.47		2.63	1.00	1.16	2.16		17.42			0.013	0.81	26.81	26.81
933+40.45	934+25.00	RT/OUT	84.55	12.00			1014.60						126.83		21.92	21.14		12.40	4.70	5.48	10.18		84.55			0.063	3.83	126.83	126.83
934+25.00	935+25.00	RT/OUT	100.00	11.00			1100.00						150.00		23.77	23.15		13.44	5.09	5.94	11.03		100.51			0.069	4.19	138.89	138.89
935+25.00	938+52.62	RT/OUT	327.62	10.00			3276.20						491.43		70.78	69.77		40.04	15.17	17.70	32.87		327.62			0.209	12.64	418.63	418.63
938+52.62	940+05.22	RT/OUT	152.60	10.00			1526.00						228.90		32.97	32.50		18.65	7.06	8.24	15.30		152.60			0.097	5.89	194.99	194.99
940+05.22	941+22.99	RT/OUT	117.77	10.00			1177.70								25.44	21.81		14.39	5.45	6.36	11.81					0.065	3.95	130.86	130.86
941+22.99	944+25.00	RT/OUT	302.01	10.00	1.0136		3061.17								66.14	56.69		37.41	14.17	16.53	30.70					0.170	10.27	340.13	340.13
944+25.00	944+50.00	RT/OUT	25.00	9.50	1.0135		240.71								5.20	4.46		2.94	1.11	1.30	2.41					0.013	0.81	26.75	26.75
944+50.00	945+00.00	RT/OUT	50.00	9.00	1.0135		456.08								9.85	8.45		5.57	2.11	2.46	4.57					0.025	1.53	50.68	50.68
945+00.00	945+10.00	RT/OUT	10.00	9.50	1.0135		96.28								2.08	1.78		1.18	0.45	0.52	0.97					0.005	0.32	10.70	10.70
945+10.00	945+59.41	RT/OUT	49.41	10.00	1.0136		500.82								10.82	9.27		6.12	2.32	2.71	5.03					0.028	1.68	55.65	55.65
945+59.41	948+49.46	RT/OUT	290.05	10.00	1.0136	1.0149	2939.95						441.56		63.52	62.62		35.93	13.61	15.88	29.49		294.37			0.188	11.34	375.72	375.72
948+49.46	949+27.46	RT/OUT	78.00	10.00	1.0136	1.0149	790.61		26.39	39.58	46.18			131.94	21.36	19.16		11.92	3.66	5.20	8.86					0.057	3.47	114.97	114.97
949+27.46	951+37.42	RT/OUT	209.96	10.00	1.0136	1.0149	2128.15						319.63		45.98	45.33		26.01	9.85	11.49	21.34		213.09			0.136	8.21	271.98	271.98
951+37.42	952+52.46	RT/OUT	115.04	10.00	1.0136		1166.05								25.19	21.59		14.25	5.40	6.30	11.70					0.065	3.91	129.56	129.56
952+52.46	953+50.00	RT/OUT	97.54	10.00			975.40								21.07	18.06		11.92	4.52	5.27	9.79					0.054	3.27	108.38	108.38
																0.00													
958+00.00	959+17.04	RT/OUT	117.04	12.00			1404.48						175.56		30.34	29.26		17.17	6.50	7.59	14.09		117.04			0.088	5.30	175.56	175.56
959+17.04	962+17.51	RT/OUT	300.47	12.00			3605.64						450.71		77.90	75.12		44.07	16.69	19.47	36.16		300.47			0.225	13.61	450.71	450.71
962+17.51	964+50.00	RT/OUT	232.49	12.00	0.9825	0.9810	2741.06						342.11		59.22	57.10		33.50	12.69	14.81	27.50		228.07			0.171	10.34	342.57	342.57
964+50.00	965+50.00	RT/OUT	100.00	11.00	0.9832	0.9818	1081.52						147.27		23.37	22.76		13.22	5.01	5.84	10.85		98.18			0.068	4.12	136.53	136.53
965+50.00	967+84.10	RT/OUT	234.10	10.00	0.9834	0.9821	2302.14						344.86		49.74	49.02		28.14	10.66	12.43	23.09		229.91			0.147	8.88	294.11	294.11
967+84.10	970+84.57	RT/OUT	300.47	10.00			3004.70						450.71		64.92	63.99		36.72	13.91	16.23	30.14		300.47			0.192	11.59	383.93	383.93
970+84.57	974+89.30	RT/OUT	404.73	10.00			4047.30						607.09		87.44	86.19		49.47	18.74	21.86	40.60		404.73			0.259	15.61	517.15	517.15
974+89.30	975+78.77	RT/OUT	89.47	10.00			894.70						134.21		19.33	19.05		10.94	4.14	4.83	8.97		89.47			0.057	3.45	114.32	114.32
975+78.77	979+02.34	RT/OUT	323.57	10.00	1.0110	1.0119	3271.29						491.13		70.68	69.67		39.98	15.14	17.67	32.81		323.57			0.209	12.62	418.05	418.05
980+59.02	981+34.46	RT/OUT	75.44	8.00	1.0294	1.0308	621.26						116.65		13.42	13.67		7.59	2.88	3.36	6.24		75.44			0.041	2.48	81.99	81.99
981+34.46	981+86.86	RT/OUT	52.40	8.00	1.0290	1.0304	431.36		18.00	27.00	31.50			89.99	12.24	11.07		6.81	2.00	2.96	4.96					0.033	2.01	66.43	66.43
981+86.86	983+54.13	RT/OUT	167.27	8.00	1.0282	1.0296	1375.90						258.33		29.73	30.26		16.82	6.37	7.43	13.80		167.27			0.091	5.48	181.58	181.58
983+54.13	984+22.79	RT/OUT	68.66	8.00			549.28						102.99		11.87	12.08		6.71	2.54	2.97	5.51		68.66			0.036	2.19	72.47	72.47
984+22.79	984+72.79	RT/OUT	50.00	7.00			350.00						75.00		7.56	7.87		4.28	1.62	1.89	3.51		50.00			0.024	1.43	47.22	47.22
984+72.79	985+50.00	RT/OUT	77.21	6.00			463.26						115.82		10.01	10.72		5.66	2.14	2.50	4.64		77.21			0.032	1.94	64.34	64.34
985+50.00	985+66.54	CADD						95.16					24.81		2.06	2.22		1.16	0.44	0.51	0.95		16.54			0.007	0.40	13.33	13.33
985+66.54	1020+90.90	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																											
1021+87.40	1022+51.23	RT/OUT	63.83	10.00	0.9946	0.9939	634.85		21.15		37.01		95.16		14.17	12.83		7.89	2.94	3.43	6.37					0.041	2.45	81.11	81.11
1022+51.23	1023+49.97	STATION EQUATION																											
1023+49.97	1030+87.13	RT/OUT	737.16	10.00	0.9946	0.9939	7331.79		244.22		427.39		1098.99		163.68	148.21		91.10	33.94	39.60	73.54					0.468	28.28	936.75	936.75
1030+87.13	1030+94.06	RT/OUT	6.93	10.00			69.30		2.31		4.04		10.39		1.55	1.40		0.86	0.32	0.37	0.69					0.004	0.27	8.85	8.85
1030+94.06	1035+00.00	RT/OUT	405.94	10.00			4059.40		135.31		236.80		608.91		90.63	82.07		50.44	18.79	21.93	40.72					0.259	15.66	518.70	518.70
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**1490**	**1396**		**840**	**316**	**370**	**686**		**3738**			**5**	**256**	**8450**	**8450**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302	304		407	442	442	442		609		254	204	206	206	206
															7" ASPHALT CONCRETE BASE, PG64-22 (449)	6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT		CURB, TYPE 4-C		PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	PROOF ROLLING (1 HOUR/2000 SY)	CEMENT (0.75 X T X 115 X 0.05) LB/SY	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY		FT		SY	HOUR	TON	SY	SY
EASTBOUND I-490 BL																													
FULL DEPTH LANES																													
2035+00.00	2037+00.00	RT	200.00	24.00	1.0021		4810.08								103.92	89.08		58.79	22.27	25.98	48.25					0.267	16.13	534.45	534.45
2037+00.00	2038+14.67	RT	114.67	24.00			2752.08								59.46	50.96		33.64	12.74	14.86	27.60					0.153	9.23	305.79	305.79
2038+14.67	2050+87.73	RT	1273.06	24.00	1.0008		30577.88								660.63	566.26		373.73	141.56	165.16	306.72					1.699	102.56	3397.54	3397.54
FULL DEPTH SHOULDER																													
2035+00.00	2037+00.00	LT/IN	200.00	6.00	0.9995		1199.40								25.91	22.21		14.66	5.55	6.48	12.03					0.067	4.02	133.27	133.27
2037+00.00	2038+00.00	LT/IN	100.00	6.00			600.00						150.00		12.96	13.89		7.33	2.78	3.24	6.02		100.00			0.042	2.52	83.33	83.33
2038+00.00	2038+14.67	LT/IN	14.67	5.71			83.69						22.01		1.81	1.96		1.02	0.39	0.45	0.84		14.67			0.006	0.35	11.74	11.74
2038+14.67	2039+00.00	LT/IN	85.33	3.71	0.9999	0.9998	316.12						127.97		6.83	8.22		3.86	1.46	1.71	3.17		85.33			0.025	1.49	49.34	49.34
2039+00.00	2049+00.00	LT/IN	1000.00	2.00	0.9999	0.9999	1999.80						1499.85		43.21	64.81		24.44	9.26	10.80	20.06		1000.00			0.194	11.74	388.85	388.85
2049+00.00	2050+00.00	LT/IN	100.00	1.00	1.0000	0.9999	100.00						149.99		2.16	4.63		1.22	0.46	0.54	1.00		100.00			0.014	0.84	27.78	27.78
2050+00.00	2050+87.73	LT/IN	87.73	0.00	1.0000	1.0000	0.00						131.60		0.00	2.44		0.00	0.00	0.00	0.00		87.73			0.007	0.44	14.62	14.62
2035+00.00	2037+00.00	RT/OUT	200.00	10.00	0.9949	0.9941	1989.80		66.27		115.98		298.23		44.42	40.22		24.72	9.21	10.75	19.96					0.127	7.67	254.23	254.23
2037+00.00	2038+14.67	RT/OUT	114.67	7.71			883.53		38.22		66.89		172.01		19.91	18.31		11.03	4.09	4.77	8.86					0.059	3.54	117.28	117.28
2038+14.67	2038+51.14	RT/OUT	36.47	4.68	1.0017	1.0019	170.97		12.18		21.31		54.81		3.96	3.79		2.16	0.79	0.92	1.71					0.013	0.76	25.09	25.09
2038+51.14	2039+00.00	RT/OUT	48.86	2.98	1.0017	1.0018	145.61						73.42		3.15	4.06		1.78	0.67	0.79	1.46		48.86			0.012	0.73	24.34	24.34
2039+00.00	2049+00.00	RT/OUT	1000.00	2.00	1.0016	1.0017	2003.20						1502.55		43.28	64.92		24.48	9.27	10.82	20.09		1000.00			0.195	11.76	389.53	389.53
2049+00.00	2050+00.00	RT/OUT	100.00	1.00	1.0016	1.0016	100.16						150.24		2.16	4.64		1.22	0.46	0.54	1.00		100.00			0.014	0.84	27.82	27.82
2050+00.00	2050+87.73	RT/OUT	87.73	0.00	1.0016	1.0016	0.00						131.81		0.00	2.44		0.00	0.00	0.00	0.00		87.73			0.007	0.44	14.65	14.65
GORE AREAS																													
WESTBOUND I-490 CL / RAMP E-S (I-71)																													
958+62.77	963+34.02	LT			CADD			6128.23							132.40	113.49		74.90	28.37	33.10	61.47					0.340	20.55	680.91	680.91
EASTBOUND I-490 CL / RAMP S-E (I-71)																													
953+50	958+00.00	RT			CADD			6070.50							131.15	112.42		74.20	28.10	32.79	60.89					0.337	20.36	674.50	674.50
EASTBOUND I-490 CL / RAMP 7-7C																													
979+02.34	980+59.02	RT			CADD			2080.12							44.94	38.52		25.42	9.63	11.24	20.87					0.116	6.98	231.12	231.12
EASTBOUND I-490 CL / RAMP W-S (I-77)																													
1020+90.90	1021+87.40	RT			CADD			1727.59							37.32	31.99		21.11	8.00	9.33	17.33					0.096	5.79	191.95	191.95
RAMP E-N (I-77) / RAMP E-S (I-77)																													
739+15.85	740+95.22	RT			CADD			1550.30							33.49	28.71		18.95	7.18	8.37	15.55					0.086	5.20	172.26	172.26
RAMP E-N (I-77) / RAMP W-N (I-77)																													
733+41.84	734+00.31	RT			CADD			557.02										6.81	2.58					61.89					
RAMP N-E (I-77) / RAMP S-E (I-77)																													
442+93.82	445+70.00	RT			CADD			2500.09							54.01	46.30		30.56	11.57	13.50	25.07					0.139	8.39	277.79	277.79
RAMP N-W (I-77) / RAMP S-W (I-77)																													
125+73.83	126+61.20	RT			CADD			917.44							19.82	16.99		11.21	4.25	4.96	9.21					0.051	3.08	101.94	101.94
RAMP W-N (I-77) / RAMP W-S (I-77)																													
625+84.24	627+98.91	RT			CADD			2025.57							43.76	37.51		24.76	9.38	10.94	20.32					0.113	6.79	225.06	225.06
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**1531**	**1389**		**872**	**331**	**383**	**710**		**2625**		**62**	**5**	**253**	**8356**	**8356**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302	304		407	442	442	442		609			204	206	206	206
															7" ASPHALT CONCRETE BASE, PG64-22 (449)	6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT		CURB, TYPE 4-C			PROOF ROLLING (1 HOUR/2000 SY)	CEMENT (0.75 X T X 115 X 0.05) LB/SY	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY		FT			HOUR	TON	SY	SY
			RAMP E-S (I-71) BL																										
FULL DEPTH LANES																													
3036+66.35	3038+00.95	RT	134.60	24.00	0.9938		3210.37								69.36	59.45		39.24	14.86	17.34	32.20					0.178	10.77	356.71	356.71
3038+00.95	3040+69.11	RT	268.16	24.00	0.9877		6356.68								137.34	117.72		77.69	29.43	34.33	63.76					0.353	21.32	706.30	706.30
3040+69.11	3042+13.54	RT	144.43	24.00	0.9818		3403.23								73.53	63.02		41.60	15.76	18.38	34.14					0.189	11.42	378.14	378.14
3042+13.54	3047+21.36	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																											
3047+21.36	3048+92.42	RT	171.06	24.00	0.9877		4054.94								87.61	75.09		49.56	18.77	21.90	40.67					0.225	13.60	450.55	450.55
3048+92.42	3050+79.24	RT	186.82	24.00	0.9938		4455.88								96.27	82.52		54.46	20.63	24.07	44.70					0.248	14.95	495.10	495.10
3050+79.24	3051+96.21	RT	116.97	24.00			2807.28								60.65	51.99		34.31	13.00	15.16	28.16					0.156	9.42	311.92	311.92
3051+96.21	3052+03.81	RT	7.60	24.00			182.40								3.94	3.38		2.23	0.84	0.99	1.83					0.010	0.61	20.27	20.27
3052+03.81	3053+16.33	RT	112.52	24.00			2700.48								58.34	50.01		33.01	12.50	14.59	27.09					0.150	9.06	300.05	300.05
3053+16.33	3056+31.68	RT	315.35	24.00	1.0042		7600.19								164.20	140.74		92.89	35.19	41.05	76.24					0.422	25.49	844.47	844.47
3056+31.68	3056+86.38	RT	54.70	24.00			1312.80								28.36	24.31		16.05	6.08	7.09	13.17					0.073	4.40	145.87	145.87
3056+86.38	3058+37.94	RT	151.56	24.00			3637.44								78.59	67.36		44.46	16.84	19.65	36.49					0.202	12.20	404.16	404.16
3058+37.94	3059+74.83	RT	136.89	24.00	0.9995		3283.72								70.94	60.81		40.13	15.20	17.74	32.94					0.182	11.01	364.86	364.86
3059+74.83	3063+32.61	RT	357.78	24.00	0.9995		8582.43								185.42	158.93		104.90	39.73	46.36	86.09					0.477	28.79	953.60	953.60
3063+32.61	3064+68.90	RT			CADD			3360.19							72.60	62.23		41.07	15.56	18.15	33.71					0.187	11.27	373.35	373.35
FULL DEPTH SHOULDER																													
3036+66.35	3038+00.95	LT/OUT	134.60	10.00	1.0026	1.0052	1349.50		45.10		78.92		202.95		30.13	27.29		16.77	6.25	7.29	13.54					0.086	5.21	172.49	172.49
3038+00.95	3040+69.11	LT/OUT	268.16	10.00	1.0051	1.0102	2695.28		90.30		158.02		406.34		60.18	54.51		33.49	12.48	14.56	27.04					0.172	10.40	344.62	344.62
3040+69.11	3041+77.91	LT/OUT	108.80	10.00	1.0076	1.0151	1096.27		36.81		64.43		165.66		24.48	22.18		13.62	5.08	5.92	11.00					0.070	4.23	140.21	140.21
3041+77.91	3042+04.50	LT/OUT	26.59	7.44	1.0056	1.0113	198.94		8.96		15.69		40.34		4.49	4.14		2.49	0.92	1.07	1.99					0.013	0.80	26.59	26.59
3042+04.50	3042+13.54	LT/OUT	9.04	4.88	1.0037	1.0074	44.28		3.04		5.31		13.66		1.02	0.97		0.56	0.21	0.24	0.45					0.003	0.19	6.44	6.44
3042+13.54	3047+21.36	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																											
3047+21.36	3047+25.45	LT/OUT	4.09	3.17	1.0016		12.97								0.28	0.24		0.16	0.06	0.07	0.13					0.001	0.04	1.44	1.44
3047+25.45	3048+92.42	LT/OUT	166.97	5.07	1.0026	1.0052	848.74						251.76		18.34	20.38		10.37	3.93	4.58	8.51		166.97			0.061	3.69	122.28	122.28
3048+92.42	3049+09.37	LT/OUT	16.95	7.12	1.0018	1.0037	120.82						25.52		2.61	2.71		1.48	0.56	0.65	1.21		16.95			0.008	0.49	16.26	16.26
3049+09.37	3049+87.03	LT/OUT	77.66	8.17	1.0021	1.0042	635.43		26.00	38.99	45.49			129.98	17.94	16.22		9.99	2.94	4.34	7.28					0.049	2.94	97.32	97.32
3049+87.03	3050+30.82	LT/OUT	43.79	9.52	1.0025	1.0049	417.70						66.01		9.02	8.96		5.11	1.93	2.26	4.19		43.79			0.027	1.62	53.75	53.75
3050+30.82	3050+79.24	LT/OUT	48.42	10.00	1.0026	1.0052	485.46						73.01		10.49	10.34		5.93	2.25	2.62	4.87		48.42			0.031	1.87	62.05	62.05
3050+79.24	3051+96.21	LT/OUT	116.97	10.00			1169.70						175.46		25.27	24.91		14.30	5.42	6.32	11.74		116.97			0.075	4.51	149.46	149.46
3051+96.21	3052+03.81	LT/OUT	7.60	10.00			76.00						11.40		1.64	1.62		0.93	0.35	0.41	0.76		7.60			0.005	0.29	9.71	9.71
3052+03.81	3053+16.33	LT/OUT	112.52	10.00			1125.20						168.78		24.31	23.96		13.75	5.21	6.08	11.29		112.52			0.072	4.34	143.78	143.78
3053+16.33	3056+31.68	LT/OUT	315.35	10.00	0.9983	0.9965	3148.14						471.37		68.02	67.03		38.48	14.57	17.00	31.57		315.35			0.201	12.14	402.17	402.17
3056+31.68	3056+86.38	LT/OUT	54.70	10.00			547.00						82.05		11.82	11.65		6.69	2.53	2.95	5.48		54.70			0.035	2.11	69.89	69.89
3056+86.38	3058+37.94	LT/OUT	151.56	10.00			1515.60						227.34		32.74	32.28		18.52	7.02	8.19	15.21		151.56			0.097	5.85	193.66	193.66
3058+37.94	3059+74.83	LT/OUT	136.89	10.00	1.0002	1.0004	1369.17						205.42		29.58	29.16		16.73	6.34	7.40	13.74		136.89			0.087	5.28	174.95	174.95
3059+74.83	3064+68.90	LT/OUT	494.07	10.00	1.0002	1.0004	4941.69						741.40		106.76	105.24		60.40	22.88	26.69	49.57		494.07			0.316	19.06	631.45	631.45
3036+66.35	3036+76.74	RT/IN	10.39	3.80	0.9866	0.9856	38.90		3.41		5.97		15.36		0.91	0.89		0.50	0.18	0.21	0.39					0.003	0.18	6.03	6.03
3036+76.74	3038+00.95	RT/IN	124.21	4.00	0.9866	0.9855	490.18		40.80		71.41		183.61		11.47	11.16		6.24	2.27	2.65	4.92					0.037	2.26	74.87	74.87
3038+00.95	3040+69.11	RT/IN	268.16	4.00	0.9734	0.9714	1044.11		86.83		151.95		390.74		24.43	23.76		13.29	4.83	5.64	10.47					0.080	4.81	159.43	159.43
3040+69.11	3042+06.87	RT/IN	137.76	4.00	0.9606	0.9576	529.33		43.97		76.95		197.88		12.39	12.04		6.74	2.45	2.86	5.31					0.040	2.44	80.80	80.80
3042+06.87	3042+12.45	RT/IN	5.58	3.47	0.9610	0.9584	18.58		1.78		3.12		8.02		0.44	0.43		0.24	0.09	0.10	0.19					0.001	0.09	2.96	2.96
3042+12.45	3047+21.36	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																											
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**1716**	**1530**		**969**	**366**	**427**	**793**		**1666**			**5**	**280**	**9248**	**9248**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302 7" ASPHALT CONCRETE BASE, PG64-22 (449)	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C			204 PROOF ROLLING (1 HOUR/2000 SY)	206 CEMENT (0.75 X T X 115 X 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY		FT			HOUR	TON	SY	SY
		RAMP E-S (I-71) BL CONTD.																											
FULL DEPTH SHOULDER																													
3047+21.45	3047+22.60	RT/IN	1.15	4.03	0.9734		4.51								0.10	0.08		0.06	0.02	0.02	0.04					0.000	0.02	0.50	0.50
3047+22.60	3048+04.43	RT/IN	81.83	4.00	0.9734		318.61								6.88	5.90		3.89	1.48	1.72	3.20					0.018	1.07	35.40	35.40
3048+04.43	3048+92.42	RT/IN	87.99	4.00	0.9734	0.9714	342.60						128.21		7.40	8.72		4.19	1.59	1.85	3.44		87.99			0.026	1.58	52.31	52.31
3048+92.42	3050+79.24	RT/IN	186.82	4.00	0.9866	0.9855	737.27						276.17		15.93	18.77		9.01	3.41	3.98	7.39		186.82			0.056	3.40	112.60	112.60
3050+79.24	3051+96.21	RT/IN	116.97	4.00			467.88						175.46		10.11	11.91		5.72	2.17	2.53	4.70		116.97			0.036	2.16	71.48	71.48
3051+96.21	3052+03.81	RT/IN	7.60	4.00			30.40						11.40		0.66	0.77		0.37	0.14	0.16	0.30		7.60			0.002	0.14	4.64	4.64
3052+03.81	3053+16.33	RT/IN	112.52	4.00			450.08						168.78		9.72	11.46		5.50	2.08	2.43	4.51		112.52			0.034	2.08	68.76	68.76
3053+16.33	3056+31.68	RT/IN	315.35	4.00	1.0091	1.0098	1272.88						477.66		27.50	32.42		15.56	5.89	6.88	12.77		315.35			0.097	5.87	194.50	194.50
3056+31.68	3056+86.38	RT/IN	54.70	4.00			218.80						82.05		4.73	5.57		2.67	1.01	1.18	2.19		54.70			0.017	1.01	33.43	33.43
3056+86.38	3058+37.94	RT/IN	151.56	4.00			606.24						227.34		13.10	15.44		7.41	2.81	3.27	6.08		151.56			0.046	2.80	92.62	92.62
3058+37.94	3058+59.21	RT/IN	21.27	4.00	0.9909	0.9902	84.31						31.59		1.82	2.15		1.03	0.39	0.46	0.85		21.27			0.006	0.39	12.88	12.88
		RAMP S-E (I-71) BL																											
FULL DEPTH LANES																													
2049+00.00	2049+19.91	LT	19.91	16.00	1.0124		322.51								6.97	5.97		3.94	1.49	1.74	3.23					0.018	1.08	35.83	35.83
2049+19.91	2051+91.73	LT	271.82	16.00	1.0063		4376.52								94.55	81.05		53.49	20.26	23.64	43.90					0.243	14.68	486.28	486.28
2051+91.73	2053+91.73	LT	200.00	16.00	1.0031		3209.92								69.35	59.44		39.23	14.86	17.34	32.20					0.178	10.77	356.66	356.66
2053+91.73	2058+00.00	LT	408.27	16.00			6532.32								141.13	120.97		79.84	30.24	35.28	65.52					0.363	21.91	725.81	725.81
FULL DEPTH SHOULDER																													
2049+00.00	2049+19.91	LT/IN	19.91	5.07	1.0288	1.0327	103.85		6.85		11.99		30.84		2.39	2.27		1.31	0.48	0.56	1.04					0.007	0.45	14.97	14.97
2049+19.91	2049+36.68	LT/IN	16.77	4.34	1.0143	1.0160	73.74		5.68		9.94		25.56		1.72	1.65		0.94	0.34	0.40	0.74					0.006	0.33	11.03	11.03
2049+36.68	2051+04.61	LT/IN	167.93	4.00	1.0141	1.0157	681.19		56.86		99.50		255.85		15.95	15.51		8.67	3.15	3.68	6.83					0.052	3.14	104.12	104.12
2051+04.61	2051+22.48	LT/IN	17.87	4.00	1.0141	1.0157	72.49						27.23		1.57	1.85		0.89	0.34	0.39	0.73		17.87			0.006	0.33	11.08	11.08
2051+22.48	2051+91.73	LT/IN	69.25	4.00	1.0141	1.0157	280.91		23.45	35.17	41.03			117.23	9.87	9.22		5.44	1.30	2.34	3.64					0.028	1.67	55.31	55.31
2051+91.73	2052+50.64	LT/IN	58.91	4.00	1.0071	1.0079	237.31		19.79	29.69	34.64			98.96	8.33	7.79		4.59	1.10	1.98	3.08					0.023	1.41	46.71	46.71
2052+50.64	2053+05.00	LT/IN	54.36	4.00			217.44								4.70	4.03		2.66	1.01	1.17	2.18					0.012	0.73	24.16	24.16
2053+05.00	2053+47.50	LT/IN	42.50	4.85			206.13								4.45	3.82		2.52	0.95	1.11	2.06					0.011	0.69	22.90	22.90
2053+47.50	2053+50.00	LT/IN	2.50	5.70			14.25								0.31	0.26		0.17	0.07	0.08	0.15					0.001	0.05	1.58	1.58
2049+00.00	2049+09.90	RT/OUT	9.90	16.20	0.9874	0.9749	158.36						14.48		3.42	3.20		1.94	0.73	0.86	1.59		9.90			0.010	0.58	19.20	19.20
2049+09.90	2049+19.91	RT/OUT	10.01	16.00	0.9876	0.9752	158.17						14.64		3.42	3.20		1.93	0.73	0.85	1.58		10.01			0.010	0.58	19.20	19.20
2049+19.91	2051+91.73	RT/OUT	271.82	16.00	0.9937	0.9874	4321.72						402.59		93.37	87.49		52.82	20.01	23.34	43.35		271.82			0.262	15.85	524.92	524.92
2051+91.73	2052+00.00	RT/OUT	8.27	16.00	0.9969	0.9937	131.91						12.33		2.85	2.67		1.61	0.61	0.71	1.32		8.27			0.008	0.48	16.03	16.03
2052+00.00	2053+00.00	RT/OUT	100.00	14.00	0.9973	0.9945	1396.22						149.18		30.17	28.62		17.06	6.46	7.54	14.00		100.00			0.086	5.18	171.71	171.71
2053+00.00	2053+91.73	RT/OUT	91.73	12.00	0.9976	0.9953	1098.12						136.95		23.72	22.87		13.42	5.08	5.93	11.01		91.73			0.069	4.14	137.23	137.23
2053+91.73	2054+31.00	RT/OUT	39.27	12.00			471.24						58.90		10.18	9.82		5.76	2.18	2.55	4.73		39.27			0.029	1.78	58.90	58.90
2054+31.00	2054+79.00	RT/OUT	48.00	12.00			576.00		16.00	24.00	28.00	48.00		80.00	15.04	13.41		8.41	2.67	3.67	6.34		48.00			0.040	2.43	80.44	80.44
2054+79.00	2058+00.00	RT/OUT	321.00	12.00			3852.00						481.50		83.22	80.25		47.08	17.83	20.81	38.64		321.00			0.241	14.54	481.50	481.50
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															725	679		410	153	181	334		1973			3	124	4085	4085

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302 7" ASPHALT CONCRETE BASE, PG64-22 (449)	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	442 ANTI-SEGREGATION EQUIPMENT	452 10.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA		609 CURB, TYPE 6		204 PROOF ROLLING (1 HOUR/2000 SY)	206 CEMENT (0.75 X T X 115 X 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 14" DEEP
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY	SY		FT		HOUR	TON	SY	SY
				RAMP 7-7C BL																									
FULL DEPTH LANES																													
68+37.92	69+80.36				CADD			8868.95					99.63			166.08						985.44		66.42		0.498	30.08	996.51	996.51
69+80.36	69+82.85	LT	2.49	16.00			39.84									0.74						4.43				0.002	0.13	4.43	4.43
69+82.85	70+06.56	LT	23.71	16.00			379.36									7.03						42.15				0.021	1.27	42.15	42.15
70+06.56	73+06.56	LT	300.00	16.00	1.0279		4933.92									91.37						548.21				0.274	16.55	548.21	548.21
73+06.56	77+59.02	LT	452.46	16.00	1.0342		7486.95									138.65						831.88				0.416	25.11	831.88	831.88
77+59.02	79+00.64	LT	141.62	16.00	1.0185		2307.84									42.74						256.43				0.128	7.74	256.43	256.43
79+00.64	80+59.02	LT	158.38	16.00	1.0185		2580.96								55.76	47.80		31.55	11.95	13.94	25.89					0.143	8.66	286.77	286.77
69+80.36	69+82.85	RT	2.49	12.00			29.88									0.55						3.32				0.002	0.10	3.32	3.32
69+82.85	70+06.56	RT	23.71	12.00			284.52									5.27						31.61				0.016	0.95	31.61	31.61
70+06.56	72+80.36	RT	273.80	12.00	0.9791		3216.93									59.57						357.44				0.179	10.79	357.44	357.44
72+80.36	73+06.56	RT	26.20	11.13	0.9806		285.82									5.29						31.76				0.016	0.96	31.76	31.76
73+06.56	74+60.36	RT	153.80	5.13	0.9890		779.55									14.44						86.62				0.043	2.61	86.62	86.62
FULL DEPTH SHOULDER																													
68+37.92	69+12.29				CURB								181.56			3.36								121.04		0.010	0.61	20.17	20.17
69+12.29	69+45.01				CADD			65.56		16.36			49.08			1.52						7.28				0.006	0.38	12.74	12.74
69+45.01	70+06.56	LT/IN	61.55	3.00			184.65			30.78			92.33			3.99						20.52				0.015	0.93	30.78	30.78
70+06.56	73+06.56	LT/IN	300.00	3.00	1.0611	1.0663	954.99			159.95			479.84			20.65						106.11				0.080	4.81	159.43	159.43
73+06.56	77+59.02	LT/IN	452.46	3.00	1.0748	1.0812	1458.91			244.60			733.80			31.55						162.10				0.122	7.35	243.63	243.63
77+59.02	79+00.64	LT/IN	141.62	3.00	1.0404	1.0439	442.02			73.92			221.76			9.55						49.11				0.037	2.23	73.75	73.75
68+37.92	68+92.37				CADD			590.59					224.64			15.10						65.62		149.76		0.045	2.73	90.58	90.58
68+92.37	69+80.36				CADD			523.88		43.99			131.99			10.52						58.21				0.036	2.20	72.87	72.87
69+80.36	70+06.56	RT/OUT	26.20	6.00			157.20			13.10			39.30			3.15						17.47				0.011	0.66	21.83	21.83
70+06.56	73+06.56	RT/OUT	300.00	6.00	0.9895	0.9791	1781.10			146.87			440.60			35.70						197.90				0.123	7.45	246.86	246.86
73+06.56	77+59.02	RT/OUT	452.46	6.00	0.9872	0.9743	2680.01			220.42			661.25			53.71						297.78				0.186	11.21	371.25	371.25
77+59.02	79+00.64	RT/OUT	141.62	6.00	0.9931	0.9862	843.86			69.83			209.50			16.92						93.76				0.059	3.53	117.04	117.04
79+00.64	80+08.90	RT/OUT	108.26	6.00	0.9931	0.9862	645.08		35.59		62.28		160.15		14.71	13.76		8.10	2.99	3.48	6.47					0.045	2.70	89.47	89.47
80+08.90	80+58.90	RT/OUT	50.00	7.00	0.9919	0.9839	347.17		16.40		28.70		73.79		7.85	7.26		4.34	1.61	1.88	3.49					0.023	1.41	46.77	46.77
80+58.90	80+59.02	RT/OUT	0.12	8.00	0.9908	0.9816	0.95		0.04		0.07		0.18		0.02	0.02		0.01	0.00	0.01	0.01					0.000	0.00	0.13	0.13
				RAMP C-7 BL																									
FULL DEPTH LANES																													
81+98.55	82+50.48				CADD			2161.76					124.09			42.33						240.20		82.73		0.127	7.67	253.98	253.98
82+50.48	85+50.00	LT	299.52	12.00			3594.24									66.56						399.36				0.200	12.06	399.36	399.36
82+50.48	85+50.00	RT	299.52	16.00			4792.32									88.75						532.48				0.266	16.07	532.48	532.48
85+50.00	85+61.97				CADD			342.99								6.35						38.11				0.019	1.15	38.11	38.11
FULL DEPTH SHOULDER																													
82+50.48	82+60.00	LT/OUT	9.52	0.00			0.00						14.28			0.26						0.00		9.52		0.001	0.05	1.59	1.59
82+60.00	82+90.00	LT/OUT	30.00	3.00			90.00						45.00			2.50						10.00		30.00		0.008	0.45	15.00	15.00
82+90.00	85+10.00	LT/OUT	220.00	6.00			1320.00						330.00			30.56						146.67		220.00		0.092	5.53	183.33	183.33
85+10.00	85+39.31	LT/OUT	29.31	6.59			193.01						43.96			4.39						21.45		29.31		0.013	0.79	26.33	26.33
85+39.31	85+50.00	LT/OUT	10.69	7.17			76.65						16.04			1.72						8.52		10.69		0.005	0.31	10.30	10.30
85+50.00	85+60.27				CADD			70.06					13.88			1.55						7.78		9.25		0.005	0.28	9.33	9.33
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**79**	**1052**		**44**	**17**	**20**	**36**	**5660**		**729**		**4**	**198**	**6545**	**6545**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302	304		407	442	442	442	452		609		204	206	206	206
															7" ASPHALT CONCRETE BASE, PG64-22 (449)	6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT	10.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA		CURB, TYPE 6		PROOF ROLLING (1 HOUR/2000 SY)	CEMENT (0.75 X T X 115 X 0.05) LB/SY	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY	SY		FT		HOUR	TON	SY	SY
RAMP C-7 BL CONTD.																													
FULL DEPTH SHOULDER																													
81+96.55	82+26.06	CADD						179.22								3.32						19.91				0.010	0.60	19.91	19.91
82+26.06	82+44.11	CADD						148.61					27.22			3.26						16.51		18.15		0.010	0.59	19.54	19.54
82+44.11	83+60.00	RT/IN	115.89	8.00			927.12			57.94			173.83			18.24						103.01				0.061	3.69	122.33	122.33
83+60.00	84+10.00	RT/IN	50.00	5.50			275.00			25.00			75.00			5.56						30.56				0.019	1.17	38.89	38.89
84+10.00	85+50.00	RT/IN	140.00	3.00			420.00			70.00			210.00			9.07						46.67				0.035	2.11	70.00	70.00
85+50.00	85+64.23	CADD						43.33		7.11			21.34			0.93						4.81				0.004	0.22	7.19	7.19
RAMP B-C BL																													
FULL DEPTH LANES																													
14+96.55	15+00.00	CADD						75.11								1.39						8.35				0.004	0.25	8.35	8.35
15+00.00	15+32.54	RT	32.54	16.00	1.0056		523.56									9.70						58.17				0.029	1.76	58.17	58.17
15+32.54	17+45.01	RT	212.47	16.00	1.0112		3437.59									63.66						381.95				0.191	11.53	381.95	381.95
17+45.01	18+15.00	RT	69.99	16.00			1119.84									20.74						124.43				0.062	3.76	124.43	124.43
18+15.00	18+18.79	CADD						193.62					44.76			4.41						21.51		29.84		0.013	0.80	26.49	26.49
17+04.96	18+18.79	CADD						2210.58					227.82			45.16						245.62		151.88		0.135	8.18	270.93	270.93
FULL DEPTH SHOULDER																													
14+96.55	15+00.00	CADD						22.03					3.44			0.47						2.45		2.30		0.001	0.09	2.83	2.83
15+00.00	15+32.54	LT/OUT	32.54	7.25	0.9975	0.9949	235.33						48.56			5.26						26.15		32.37		0.016	0.95	31.54	31.54
15+32.54	15+42.69	LT/OUT	10.15	7.25	0.9949	0.9899	73.21						15.07			1.63						8.13		10.05		0.005	0.30	9.81	9.81
15+42.69	15+61.55	LT/OUT	18.86	7.63	0.9947	0.9894	143.05						27.99			3.17						15.89		18.66		0.010	0.57	19.00	19.00
15+61.55	16+64.96	LT/OUT	103.41	8.00	0.9944	0.9888	822.65						153.38			18.07						91.41		102.25		0.054	3.27	108.45	108.45
16+64.96	17+04.96	LT/OUT	40.00	4.00	0.9972	0.9944	159.55						59.66			4.06						17.73		39.78		0.012	0.74	24.36	24.36
14+93.83	15+00.00	CADD						19.71		3.08			9.25			0.42						2.19				0.002	0.10	3.22	3.22
15+00.00	15+01.91	RT/IN	1.91	3.04	1.0122	1.0133	5.87			0.97			2.90			0.13						0.65				0.000	0.03	0.97	0.97
15+01.91	15+32.54	RT/IN	30.63	3.00	1.0122	1.0133	93.01			15.52			46.56			2.01						10.33				0.008	0.47	15.51	15.51
15+32.54	17+45.01	RT/IN	212.47	3.00	1.0244	1.0265	652.96			109.05			327.15			14.11						72.55				0.054	3.29	108.90	108.90
17+45.01	17+71.99	RT/IN	26.98	3.00			80.94			13.49			40.47			1.75						8.99				0.007	0.41	13.49	13.49
17+71.99	18+00.00	RT/IN	28.01	3.00			84.03						42.02			2.33						9.34		28.01		0.007	0.42	14.01	14.01
18+00.00	18+15.00	RT/IN	15.00	1.50			22.50						22.50			0.83						2.50		15.00		0.003	0.15	5.00	5.00
RAMP C-B BL																													
FULL DEPTH LANES																													
14+51.44	14+75.44	CADD						287.98								5.33						32.00				0.016	0.97	32.00	32.00
14+75.44	15+44.93	LT	69.49	24.00			1667.76									30.88						185.31				0.093	5.59	185.31	185.31
15+44.93	17+34.86	CADD						5531.49					369.84			109.28						614.61		246.56		0.328	19.79	655.70	655.70
16+79.88	17+82.11	CADD						265.03					170.51			8.07						29.45		113.67		0.024	1.46	48.39	48.39
FULL DEPTH SHOULDER																													
14+48.85	14+51.44	CADD						3.35					3.88									0.37		2.59		0.000	0.02	0.80	0.80
14+51.44	14+56.66	LT/IN	5.22	2.59			13.51						7.83			0.40						1.50		5.22		0.001	0.07	2.37	2.37
14+56.66	14+60.77	LT/IN	4.11	2.80			11.49						6.16			0.33						1.28		4.11		0.001	0.06	1.96	1.96
14+60.77	15+44.93	LT/IN	84.16	3.00			252.48						126.24			7.01						28.05		84.16		0.021	1.27	42.08	42.08
15+44.93	15+94.81	CADD						110.31					108.12			4.04						12.26		72.08		0.012	0.73	24.27	24.27
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																**406**						**2235**		**977**		**2**	**76**	**2499**	**2499**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY-490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302 7" ASPHALT CONCRETE BASE, PG64-22 (449)	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	442 ANTI-SEGREGATION EQUIPMENT	452 10.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA	609 CURB, TYPE 4-C	609 CURB, TYPE 6	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	204 PROOF ROLLING (1 HOUR/2000 SY)	206 CEMENT (0.75 X T X 115 X 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY	SY	FT	FT	SY	HOUR	TON	SY	SY
		RAMP C-B BL CONTD.																											
FULL DEPTH SHOULDER																													
14+75.44	14+83.59			CADD				33.28								0.62						3.70				0.002	0.11	3.70	3.70
14+83.59	14+90.50	RT/OUT	6.91	8.16			56.39									1.04						6.27				0.003	0.19	6.27	6.27
14+90.50	15+05.00	RT/OUT	14.50	8.16			118.32						21.75			2.59						13.15		14.50		0.008	0.47	15.56	15.56
15+05.00	15+08.95	RT/OUT	3.95	8.08			31.92						5.93			0.70						3.55		3.95		0.002	0.13	4.21	4.21
15+08.95	16+39.88	RT/OUT	130.93	8.00			1047.44						196.40			23.03						116.38		130.93		0.069	4.17	138.20	138.20
16+39.88	16+79.88	RT/OUT	40.00	4.00			160.00						60.00			4.07						17.78		40.00		0.012	0.74	24.44	24.44
		RAMP E-N (I-77) BL																											
FULL DEPTH LANES																													
729+38.45	729+60.29			CADD				223.37										2.73	1.03						24.82				
729+60.29	731+17.39	RT	157.10	24.00			3770.40											46.08	17.46						418.93				
731+17.39	733+84.24	RT	266.85	16.00			4269.60											52.18	19.77						474.40				
733+84.24	734+00.31	RT	16.07	16.00	1.0056		258.56											3.16	1.20						28.73				
734+00.31	736+34.24	RT	233.93	16.00	1.0056		3763.84								81.32	69.70		46.00	17.43	20.33	37.76					0.209	12.62	418.20	418.20
736+34.24	739+15.85	RT	281.61	16.00	1.0112		4556.22								98.44	84.37		55.69	21.09	24.61	45.70					0.253	15.28	506.25	506.25
739+15.85	739+73.67	RT	57.82	15.35	1.0107		897.21								19.38	16.62		10.97	4.15	4.85	9.00					0.050	3.01	99.69	99.69
739+73.67	740+95.22	RT	121.55	13.35	1.0047		1630.69								35.23	30.20		19.93	7.55	8.81	16.36					0.091	5.47	181.19	181.19
740+95.22	742+23.67	RT	128.45	12.00	1.0042		1547.87								33.44	28.66		18.92	7.17	8.36	15.53					0.086	5.19	171.99	171.99
742+23.67	743+99.26	RT	175.59	24.00			4214.16								91.05	78.04		51.51	19.51	22.76	42.27					0.234	14.13	468.24	468.24
743+99.26	746+54.31	RT	255.05	24.00	1.0021		6134.05								132.53	113.59		74.97	28.40	33.13	61.53					0.341	20.57	681.56	681.56
FULL DEPTH SHOULDER																													
729+60.29	729+69.49			CADD				39.58										0.48	0.18						4.40				
729+69.49	731+00.00	LT/OUT	130.51	10.30			1344.50											16.43	6.22						149.39				
731+00.00	731+17.39	LT/OUT	17.39	12.00			208.68											2.55	0.97						23.19				
731+17.39	732+50.00	LT/OUT	132.61	12.00			1591.32											19.45	7.37						176.81				
732+50.00	733+50.00	LT/OUT	100.00	11.00			1100.00											13.44	5.09						122.22				
733+50.00	733+84.24	LT/OUT	34.24	10.00			342.40											4.18	1.59						38.04				
733+84.24	734+00.31	LT/OUT	16.07	10.00	0.9965	0.9930	160.14											1.96	0.74						17.79				
734+00.31	736+34.24	LT/OUT	233.93	10.00	0.9965	0.9930	2331.11		77.43		135.50		348.44		52.04	47.11		28.96	10.79	12.59	23.38					0.149	8.99	297.73	297.73
736+34.24	739+73.67	LT/OUT	339.43	10.00	0.9930	0.9860	3370.54		111.56		195.23		502.02		75.23	68.10		41.88	15.60	18.21	33.81					0.215	12.99	430.28	430.28
739+73.67	740+90.56	LT/OUT	116.89	10.00	0.9965	0.9930	1164.81		38.69		67.71		174.11		26.00	23.54		14.47	5.39	6.29	11.68					0.074	4.49	148.77	148.77
740+90.56	742+23.67	LT/OUT	133.11	10.00	0.9965	0.9930	1326.44		44.06	66.09	77.10			220.30	35.80	32.11		19.98	6.14	8.71	14.85					0.096	5.82	192.67	192.67
742+23.67	742+40.07	LT/OUT	16.40	10.00			164.00		5.47	8.20	9.57			27.33	4.43	3.97		2.47	0.76	1.08	1.84					0.012	0.72	23.84	23.84
742+40.07	742+58.22	LT/OUT	18.15	10.00			181.50						27.22		3.92	3.87		2.22	0.84	0.98	1.82		18.15			0.012	0.70	23.19	23.19
742+58.22	743+99.26	LT/OUT	141.04	10.00			1410.40		47.01		82.27		211.56		31.49	28.51		17.53	6.53	7.62	14.15					0.090	5.44	180.22	180.22
743+99.26	746+47.57	LT/OUT	248.31	10.00	0.9991	0.9983	2480.87		82.63		144.60		371.83		55.38	50.15		30.83	11.49	13.40	24.89					0.158	9.57	316.97	316.97
746+47.57	746+54.31	LT/OUT	6.74	9.87	0.9991	0.9983	66.43		2.24		3.92		10.09		1.48	1.34		0.83	0.31	0.36	0.67					0.004	0.26	8.50	8.50
729+27.71	729+38.45			CADD				54.30										0.66	0.25						6.03				
729+38.45	730+00.00	RT/IN	61.55	9.47			582.57											7.12	2.70						64.73				
730+00.00	730+75.00	RT/IN	75.00	7.35			551.25											6.74	2.55						61.25				
730+75.00	731+17.39	RT/IN	42.39	5.43			229.97											2.81	1.06						25.55				
734+00.31	736+34.24	RT/IN	233.93	4.00	1.0126	1.0140	947.51		79.07		138.37		355.81		22.18	21.57		12.06	4.39	5.12	9.51					0.072	4.37	144.81	144.81
736+34.24	739+15.85	RT/IN	281.61	4.00	1.0251	1.0279	1154.71		96.49		168.86		434.20		27.03	26.30		14.70	5.35	6.24	11.59					0.088	5.33	176.55	176.55
742+23.67	742+76.34	RT/IN	52.67	4.00			210.68		17.56	26.33	30.72			87.78	7.40	6.91		4.08	0.98	1.14	2.12					0.021	1.25	41.45	41.45
742+76.34	742+94.49	RT/IN	18.15	4.00			72.60						27.23		1.57	1.85		0.89	0.34	0.39	0.73		18.15			0.006	0.33	11.09	11.09
742+94.49	743+99.26	RT/IN	104.77	4.00			419.08		34.92		61.12		157.15		9.81	9.54		5.34	1.94	2.26	4.20					0.032	1.93	64.03	64.03
743+99.26	746+94.81	RT/IN	295.55	4.00	1.0045	1.0049	1187.52		99.00		173.25		445.50		27.80	27.03		15.12	5.50	6.41	11.91					0.091	5.48	181.45	181.45
746+94.81	750+56.18	RT/IN	361.37	4.00	1.0045	1.0049	1451.98						544.71		31.37	36.98		17.75	6.72	7.84	14.56		363.14			0.111	6.70	221.85	221.85
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**905**	**843**		**688**	**257**	**222**	**410**	**161**	**400**	**190**	**1637**	**3**	**157**	**5183**	**5183**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY-490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302	304		407	442	442	442		609		254	204	206	206	206	CALCULATED BMV / CHECKED NRB
															7" ASPHALT CONCRETE BASE, PG64-22 (449)	6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT		CURB, TYPE 4-C		PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	PROOF ROLLING (1 HOUR/2000 SY)	CEMENT (0.75 X T X 115 X 0.05) LB/SY	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP	
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY		FT		SY	HOUR	TON	SY	SY	
RAMP E-S (I-77) BL																														
FULL DEPTH LANES																														
830+52.00	831+47.44	LT	95.44	16.00	1.0209		1558.96											19.05	7.22						173.22					
831+47.44	832+51.04	LT	103.60	16.00	1.0126		1678.49											20.51	7.77						186.50					
832+51.04	832+58.24	CADD						57.59										0.70	0.27						6.40					
832+58.24	835+80.32	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																												
835+80.32	836+08.78	CADD						238.95							5.16	4.43		2.92	1.11	1.29	2.40					0.013	0.80	26.55	26.55	
836+08.78	837+59.70	LT	150.92	16.00	1.0161		2453.60								53.01	45.44		29.99	11.36	13.25	24.61					0.136	8.23	272.62	272.62	
837+59.70	839+08.99	LT	149.29	16.00	1.0080		2407.75								52.02	44.59		29.43	11.15	13.00	24.15					0.134	8.08	267.53	267.53	
839+08.99	840+59.70	LT	150.71	14.38	1.0072		2182.05								47.14	40.41		26.67	10.10	11.79	21.89					0.121	7.32	242.45	242.45	
840+59.70	840+94.61	LT	34.91	12.38			432.01								9.33	8.00		5.28	2.00	2.33	4.33					0.024	1.45	48.00	48.00	
840+94.61	842+23.67	LT	129.06	12.00			1548.72								33.46	28.68		18.93	7.17	8.37	15.54					0.086	5.19	172.08	172.08	
FULL DEPTH SHOULDER																														
830+52.00	831+47.44	LT/OUT	95.44	10.77	1.0560		1084.95											13.26	5.02						120.55					
831+47.44	831+75.00	LT/OUT	27.56	11.78	1.0344		335.68											4.10	1.55						37.30					
831+75.00	832+05.00	LT/OUT	30.00	12.00	1.0346		372.46											4.55	1.72						41.38					
832+05.00	832+47.22	LT/OUT	42.22	10.42	1.0333		454.58											5.56	2.10						50.51					
832+47.22	832+51.04	CADD						17.27										0.21	0.08						1.92					
832+51.04	835+72.09	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																												
835+72.09	835+80.32	CADD						22.90					4.59		0.49	0.42		0.28	0.11	0.12	0.23		3.06			0.001	0.08	2.54	2.54	
835+80.32	835+94.60	LT/OUT	14.28	5.76	1.0379	1.0437	85.37						22.36		1.84	2.00		1.04	0.40	0.46	0.86		14.90			0.006	0.36	11.97	11.97	
835+94.60	837+43.44	LT/OUT	148.84	9.03	1.0412	1.0502	1398.62		52.10		91.18		234.47		31.34	28.55		17.41	6.48	7.55	14.03					0.091	5.48	181.45	181.45	
837+43.44	837+59.70	LT/OUT	16.26	12.00	1.0442	1.0562	203.74		5.72		10.02		25.76		4.53	4.06		2.53	0.94	1.10	2.04					0.013	0.77	25.50	25.50	
837+59.70	839+08.98	LT/OUT	149.28	12.00	1.0221	1.0281	1830.95		51.16		89.53		230.21		40.66	36.51		22.69	8.48	9.89	18.37					0.115	6.91	229.02	229.02	
839+08.98	839+13.00	CADD						24.75	1.34		2.35		6.03		0.56	0.53		0.31	0.11	0.13	0.24					0.002	0.10	3.42	3.42	
830+52.00	831+47.44	RT/IN	95.44	11.25	0.9853		1057.45											12.92	4.90						117.49					
831+47.44	832+58.24	RT/IN	110.80	9.28	0.9927		1020.17											12.47	4.72						113.35					
832+58.24	832+62.06	CADD						14.88										0.18	0.07						1.65					
832+62.06	836+08.78	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																												
836+08.78	836+30.99	CADD						121.00							2.61	2.24		1.48	0.56	0.65	1.21					0.007	0.41	13.44	13.44	
836+30.99	836+47.49	RT/IN	16.50	10.41	0.9896		169.98								3.67	3.15		2.08	0.79	0.92	1.71					0.009	0.57	18.89	18.89	
836+47.49	836+49.40	RT/IN	1.91	10.04	0.9899	0.9798	18.98						2.81		0.41	0.40		0.23	0.09	0.10	0.19		1.87			0.001	0.07	2.42	2.42	
836+49.40	836+66.03	RT/IN	16.63	10.00	0.9900	0.9799	164.64						24.44		3.56	3.50		2.01	0.76	0.89	1.65		16.30			0.011	0.63	21.01	21.01	
836+66.03	837+59.70	RT/IN	93.67	10.00	0.9900	0.9799	927.33		30.60		53.54		137.68		20.70	18.73		11.52	4.29	5.01	9.30					0.059	3.57	118.33	118.33	
837+59.70	840+59.70	RT/IN	300.00	7.00	0.9965	0.9930	2092.65		99.30		173.78		446.85		47.36	43.81		26.18	9.69	11.30	20.99					0.141	8.52	282.17	282.17	
840+59.70	841+35.20	RT/IN	75.50	4.00			302.00		25.17		44.04		113.25		7.07	6.87		3.84	1.40	1.63	3.03					0.023	1.39	46.14	46.14	
841+35.20	842+23.67	RT/IN	88.47	4.00			353.88		29.49	44.24	51.61			147.45	12.42	11.61		6.85	1.64	2.95	4.59					0.035	2.10	69.63	69.63	
RAMP N-E (I-77) BL																														
FULL DEPTH LANES																														
437+48.58	437+50.00	CADD						22.22							0.48	0.41		0.27	0.10	0.12	0.22					0.001	0.07	2.47	2.47	
437+50.00	440+77.67	RT	327.67	16.00	1.0056		5272.08								113.90	97.63		64.44	24.41	28.48	52.89					0.293	17.68	585.79	585.79	
440+77.67	442+77.67	RT	200.00	16.00	1.0028		3208.96								69.33	59.43		39.22	14.86	17.33	32.19					0.178	10.76	356.55	356.55	
442+77.67	445+70.00	RT	292.33	16.00			4677.28								101.05	86.62		57.17	21.65	25.26	46.91					0.260	15.69	519.70	519.70	
FULL DEPTH SHOULDER																														
437+48.55	437+50.00	CADD						5.92	0.48		0.85		2.17		0.14	0.13		0.08	0.03	0.03	0.06					0.000	0.03	0.90	0.90	
437+50.00	437+52.48	LT/IN	2.48	4.05	0.9986	0.9972	10.02		0.82		1.44		3.71		0.23	0.23		0.13	0.05	0.05	0.10					0.001	0.05	1.53	1.53	
437+52.48	438+80.00	LT/IN	127.52	4.00	0.9986	0.9972	509.37		42.39		74.18		190.74		11.92	11.59		6.48	2.36	2.75	5.11					0.039	2.35	77.79	77.79	
438+80.00	440+30.00	LT/IN	150.00	7.00	0.9976	0.9951	1047.48		49.76		87.07		223.90		23.71	21.93		13.11	4.85	5.66	10.51					0.071	4.26	141.26	141.26	
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**699**	**612**		**487**	**183**	**173**	**320**		**37**		**851**	**2**	**113**	**3742**	**3742**	

PAVEMENT CALCULATIONS

CUY-490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302 7" ASPHALT CONCRETE BASE, PG64-22 (449)	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C	609 CURB, TYPE 6		204 PROOF ROLLING (1 HOUR/2000 SY)	206 CEMENT (0.75 X T X 115 X 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY		FT	FT		HOUR	TON	SY	SY
RAMP N-E (I-77) BL CONTD.																													
FULL DEPTH SHOULDER																													
440+30.00	440+77.67	LT/IN	47.67	10.00	0.9965	0.9930	475.03		15.78		27.61		71.00		10.60	9.60		5.90	2.20	2.57	4.77					0.030	1.83	60.67	60.67
440+77.67	442+50.00	LT/IN	172.33	10.00	0.9983	0.9965	1720.37		57.24		100.17		257.59		38.41	34.77		21.38	7.96	9.29	17.25					0.110	6.63	219.77	219.77
442+50.00	442+77.67	LT/IN	27.67	9.73	0.9983	0.9966	268.63		9.19		16.09		41.36		6.00	5.44		3.34	1.24	1.45	2.69					0.017	1.04	34.44	34.44
442+77.67	443+04.72	LT/IN	27.05	9.18			248.32		9.02		15.78		40.58		5.56	5.06		3.09	1.15	1.34	2.49					0.016	0.97	32.10	32.10
443+04.72	443+22.87	LT/IN	18.15	8.73			158.36						27.23		3.42	3.44		1.94	0.73	0.86	1.59		18.15			0.010	0.62	20.62	20.62
443+22.87	444+29.84	LT/IN	106.97	7.66			818.86		35.66	53.48	62.40			178.28	23.47	21.27		13.06	3.79	5.67	9.46					0.064	3.85	127.63	127.63
444+29.84	444+75.00	LT/IN	45.16	5.95			268.70						67.74		5.81	6.23		3.28	1.24	1.45	2.69			45.16		0.019	1.13	37.38	37.38
444+75.00	445+70.00	LT/IN	95.00	3.60			342.00						142.50		7.39	8.97		4.18	1.58	1.85	3.43			95.00		0.027	1.62	53.83	53.83
437+48.65	437+50.00			CADD				7.44	0.45		0.79		2.02		0.17	0.16		0.09	0.03	0.04	0.07					0.001	0.03	1.05	1.05
437+50.00	437+93.52	RT/OUT	43.52	7.82	1.0139	1.0166	345.06		14.75		25.81		66.36		7.77	7.14		4.31	1.60	1.86	3.46					0.023	1.38	45.71	45.71
437+93.52	440+00.00	RT/OUT	206.48	10.00	1.0147	1.0182	2095.15		70.08		122.64		315.36		46.78	42.37		26.04	9.70	11.32	21.02					0.134	8.09	267.83	267.83
440+00.00	440+77.67	RT/OUT	77.67	8.45	1.0141	1.0171	665.17		26.33		46.08		118.50		14.94	13.66		8.29	3.08	3.59	6.67					0.044	2.63	87.07	87.07
440+77.67	441+50.00	RT/OUT	72.33	5.45	1.0065	1.0075	396.40		24.29		42.51		109.31		9.09	8.58		4.99	1.84	2.14	3.98					0.028	1.70	56.19	56.19
441+50.00	442+77.67	RT/OUT	127.67	4.00	1.0063	1.0070	513.90		42.85		75.00		192.85		12.03	11.70		6.54	2.38	2.78	5.16					0.039	2.37	78.53	78.53
442+77.67	442+93.82	RT/OUT	16.15	4.00			64.60		5.38		9.42		24.23		1.51	1.47		0.82	0.30	0.35	0.65					0.005	0.30	9.87	9.87
442+93.82	442+94.41			CADD				1.19	0.20		0.34		0.89		0.03	0.03		0.02	0.01	0.01	0.02					0.000	0.01	0.23	0.23
RAMP N-W (I-77) BL																													
FULL DEPTH LANES																													
120+13.58	120+27.89			CADD				178.59							3.86	3.31		2.18	0.83	0.96	1.79					0.010	0.60	19.84	19.84
120+27.89	124+14.63	RT	386.74	28.49			11016.29								238.01	204.01		134.64	51.00	59.50	110.50					0.612	36.95	1224.03	1224.03
124+14.63	124+65.73	RT	51.10	16.00			817.60								17.66	15.14		9.99	3.79	4.42	8.21					0.045	2.74	90.84	90.84
124+65.73	127+15.73	RT	250.00	16.00	1.0077		4030.80								87.09	74.64		49.27	18.66	21.77	40.43					0.224	13.52	447.87	447.87
127+15.73	131+35.00	RT	419.27	16.00	1.0154		6811.63								147.16	126.14		83.25	31.54	36.79	68.33					0.378	22.85	756.85	756.85
131+35.00	131+37.70			CADD				42.53							0.92	0.79		0.52	0.20	0.23	0.43					0.002	0.14	4.73	4.73
FULL DEPTH SHOULDER																													
120+07.33	120+13.58			CADD				32.08					8.82		0.69	0.76		0.39	0.15	0.17	0.32		5.88			0.002	0.14	4.54	4.54
120+13.58	120+21.64	LT/OUT	8.06	10.92			88.02						12.09		1.90	1.85		1.08	0.41	0.48	0.89		8.06			0.006	0.34	11.12	11.12
120+21.64	120+52.66	LT/OUT	31.02	10.92			338.74		10.34		18.10		46.53		7.54	6.80		4.20	1.57	1.83	3.40					0.021	1.29	42.81	42.81
120+52.66	120+75.57	LT/OUT	22.91	10.46			239.64		7.64		13.36		34.36		5.34	4.83		2.98	1.11	1.29	2.40					0.015	0.92	30.44	30.44
120+75.57	124+14.63	LT/OUT	339.06	10.00			3390.60		113.02		197.79		508.59		75.70	68.54		42.13	15.70	18.31	34.01					0.217	13.08	433.24	433.24
124+14.63	124+65.73	LT/OUT	51.10	10.00			511.00		17.03		29.81		76.65		11.41	10.33		6.35	2.37	2.76	5.13					0.033	1.97	65.29	65.29
124+65.73	127+15.73	LT/OUT	250.00	10.00	0.9952	0.9904	2488.00		82.53		144.43		371.40		55.54	50.28		30.91	11.52	13.44	24.96					0.159	9.59	317.71	317.71
127+15.73	131+35.00	LT/OUT	419.27	10.00	0.9904	0.9808	4152.45		137.07		239.88		616.83		92.67	83.88		51.59	19.22	22.43	41.65					0.265	16.00	529.92	529.92
131+35.00	131+37.52			CADD				24.50	0.84		1.47		3.78		0.55	0.50		0.30	0.11	0.13	0.24					0.002	0.09	3.14	3.14
120+27.89	120+30.28			CADD				4.78							0.10	0.09		0.06	0.02	0.03	0.05					0.000	0.02	0.53	0.53
120+30.28	124+14.63	RT/IN	384.35	4.00			1537.40		128.12		224.20		576.52		35.98	34.99		19.57	7.12	8.30	15.42					0.117	7.09	234.88	234.88
126+61.20	127+15.73	RT/IN	54.53	4.00	1.0173	1.0192	221.89		18.53		32.42		83.37		5.19	5.05		2.83	1.03	1.20	2.23					0.017	1.02	33.92	33.92
127+15.73	130+85.59	RT/IN	369.86	4.00	1.0346	1.0384	1530.63		128.02		224.04		576.09		35.84	34.86		19.49	7.09	8.27	15.36					0.117	7.07	234.08	234.08
130+85.59	131+35.00	RT/IN	49.41	4.99	1.0355	1.0403	255.05		17.13		29.98		77.10		5.88	5.60		3.22	1.18	1.38	2.56					0.018	1.11	36.91	36.91
131+35.00	131+37.76			CADD				17.09	0.92		1.61		4.14		0.39	0.36		0.21	0.08	0.09	0.17					0.001	0.07	2.36	2.36
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**1023**	**913**		**573**	**214**	**251**	**464**		**33**	**141**		**3**	**171**	**5658**	**5658**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302	304		407	442	442	442	452	609	609	254	204	206	206	206
															7" ASPHALT CONCRETE BASE, PG64-22 (449)	6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA	CURB, TYPE 4-C	CURB, TYPE 6	PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	PROOF ROLLING (1 HOUR/2000 SY)	CEMENT (0.75 X T X 115 X 0.05) LB/SY	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY	SY	FT	FT	SY	HOUR	TON	SY	SY
RAMP S-E (I-77) BL																													
FULL DEPTH LANES																													
336+00.00	342+69.52	LT	669.52	16.00	1.0129		10850.51								234.42	200.94		132.62	50.23	58.61	108.84					0.603	36.39	1205.61	1205.61
342+69.52	344+69.52	LT	200.00	16.00	1.0065		3220.80								69.59	59.64		39.37	14.91	17.40	32.31					0.179	10.80	357.87	357.87
344+69.52	345+70.00	LT	100.48	16.00			1607.68								34.73	29.77		19.65	7.44	8.68	16.12					0.089	5.39	178.63	178.63
345+70.00	347+00.00	LT	130.00	34.20			4446.00								96.06	82.33		54.34	20.58	24.01	44.59					0.247	14.91	494.00	494.00
FULL DEPTH SHOULDER																													
336+00.00	336+05.00	LT/IN	5.00	11.99	1.0355	1.0452	62.05		1.74		3.05		7.84		1.38	1.24		0.77	0.29	0.34	0.63					0.004	0.23	7.77	7.77
336+05.00	342+69.52	LT/IN	664.52	12.00	1.0355	1.0452	8257.33		231.52		405.16		1041.83		183.40	164.70		102.34	38.23	44.60	82.83					0.517	31.19	1033.24	1033.24
342+69.52	342+97.40	LT/IN	27.88	12.00	1.0178	1.0226	340.52		9.50		16.63		42.77		7.56	6.79		4.22	1.58	1.84	3.42					0.021	1.29	42.59	42.59
345+70.00	346+12.48	LT/IN	42.48	0.85			36.11						63.72		0.78	1.85		0.44	0.17	0.20	0.37			42.48		0.006	0.33	11.09	11.09
346+12.48	347+00.00	LT/IN	87.52	0.00			0.00						131.28		0.00	2.43		0.00	0.00	0.00	0.00			87.52		0.007	0.44	14.59	14.59
336+00.00	336+53.42	RT/OUT	53.42	11.07	0.9911	0.9821	586.10		17.49		30.60		78.70		13.04	11.74		7.27	2.71	3.17	5.88					0.037	2.23	73.87	73.87
336+53.42	342+69.52	RT/OUT	616.10	10.00	0.9919	0.9839	6111.10		202.06		353.61		909.27		136.40	123.46		75.93	28.29	33.01	61.30					0.390	23.55	780.04	780.04
342+69.52	343+23.44	RT/OUT	53.92	10.00	0.9960	0.9919	537.04		17.83		31.20		80.22		11.99	10.85		6.67	2.49	2.90	5.39					0.034	2.07	68.58	68.58
343+23.44	343+41.79	RT/OUT	18.35	10.00	0.9960	0.9919	182.77						27.30		3.95	3.89		2.23	0.85	0.99	1.84		18.35			0.012	0.70	23.34	23.34
343+41.79	344+69.52	RT/OUT	127.73	10.00	0.9960	0.9919	1272.19		42.23	63.35	73.91			211.16	34.33	30.79		19.16	5.89	8.35	14.24					0.092	5.58	184.76	184.76
344+69.52	345+02.48	RT/OUT	32.96	10.00			329.60		10.99	16.48	19.23			54.93	8.90	7.99		4.97	1.53	2.17	3.70					0.024	1.45	47.91	47.91
345+02.48	345+14.23	RT/OUT	11.75	10.00			117.50		3.92		6.85		17.63		2.62	2.38		1.46	0.54	0.63	1.17					0.008	0.45	15.01	15.01
345+14.23	345+70.00	RT/OUT	55.77	8.89			495.52		18.59		32.53		83.65		11.11	10.12		6.17	2.29	2.68	4.97					0.032	1.94	64.35	64.35
345+70.00	346+50.06	RT/OUT	80.06	6.17			493.97		26.69		46.70		120.09		11.25	10.51		6.20	2.29	2.67	4.96					0.034	2.06	68.23	68.23
346+50.06	347+00.00	RT/OUT	49.94	3.57			178.29						74.91		3.85	4.69		2.18	0.83	0.96	1.79			49.94		0.014	0.85	28.13	28.13
RAMP S-W (I-77) BL																													
FULL DEPTH LANES																													
224+14.63	226+14.63	LT	200.00	16.00	1.0028		3208.96								69.33	59.43		39.22	14.86	17.33	32.19					0.178	10.76	356.55	356.55
226+14.63	228+90.53	LT	275.90	16.00	1.0056		4439.12								95.91	82.21		54.26	20.55	23.98	44.53					0.247	14.89	493.24	493.24
228+90.53	230+18.15	LT	127.62	16.00	1.0098		2061.93								44.55	38.18		25.20	9.55	11.14	20.69					0.115	6.92	229.10	229.10
FULL DEPTH SHOULDER																													
226+62.50	226+64.52				CADD			8.22	0.67		1.18		3.03		0.19	0.19		0.10	0.04	0.04	0.08					0.001	0.04	1.25	1.25
226+64.52	228+90.53	LT/OUT	226.01	8.00	1.0140	1.0168	1833.39		76.60		134.05		344.71		41.27	37.85		22.88	8.49	9.90	18.39					0.121	7.31	242.01	242.01
228+90.53	229+91.64	LT/OUT	101.11	8.00	1.0244	1.0293	828.62		34.69		60.71		156.11		18.65	17.11		10.34	3.84	4.48	8.32					0.055	3.30	109.41	109.41
229+91.64	230+18.15	LT/OUT	26.51	6.68	1.0236	1.0277	181.13		9.08		15.89		40.87		4.11	3.82		2.27	0.84	0.98	1.82					0.012	0.74	24.67	24.67
224+14.63	225+54.00	RT/IN	139.37	4.00	0.9993	0.9986	557.09		46.39		81.19		208.76		13.04	12.68		7.09	2.58	3.01	5.59					0.043	2.57	85.09	85.09
225+54.00	226+04.00	RT/IN	50.00	5.00	0.9991	0.9983	249.78		16.64		29.12		74.87		5.76	5.47		3.15	1.16	1.35	2.51					0.018	1.09	36.07	36.07
226+04.00	226+14.63	RT/IN	10.63	6.00	0.9990	0.9979	63.72						15.91		1.38	1.47		0.78	0.30	0.34	0.64		10.61			0.004	0.27	8.85	8.85
226+14.63	228+49.08	RT/IN	234.45	6.00	0.9979	0.9958	1403.75						350.20		30.33	32.48		17.16	6.50	7.58	14.08		233.47			0.097	5.88	194.88	194.88
228+49.08	228+90.53	RT/IN	41.45	6.00	0.9979	0.9958	248.18		13.76		24.08		61.91		5.66	5.30		3.12	1.15	1.34	2.49					0.017	1.04	34.45	34.45
228+90.53	230+02.65	RT/IN	112.12	6.00	0.9963	0.9927	670.23		37.10		64.93		166.95		15.28	14.30		8.42	3.10	3.62	6.72					0.047	2.81	93.02	93.02
230+02.65	230+18.15	RT/IN	15.50	5.69	0.9965	0.9930	87.89		5.13		8.98		23.09		2.01	1.89		1.11	0.41	0.47	0.88					0.006	0.37	12.33	12.33
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**1213**	**1079**		**682**	**255**	**299**	**554**		**263**	**180**		**4**	**200**	**6621**	**6621**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302	304		407	442	442	442	452	609		254	204	206	206	206	CALCULATED BMV / CHECKED NRB
															7" ASPHALT CONCRETE BASE, PG64-22 (449)	6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA	CURB, TYPE 4-C		PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	PROOF ROLLING (1 HOUR/2000 SY)	CEMENT (0.75 X T X 115 X 0.05) LB/SY	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP	
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY	SY	FT		SY	HOUR	TON	SY	SY	
				RAMP W-N (I-77) BL																										
FULL DEPTH LANES																														
625+00.00	625+84.24	RT	84.24	12.00			1010.88								21.84	18.72		12.36	4.68	5.46	10.14					0.056	3.39	112.32	112.32	
625+84.24	626+84.05	RT	99.81	12.93			1290.54								27.88	23.90		15.77	5.97	6.97	12.94					0.072	4.33	143.39	143.39	
626+84.05	627+98.91	RT	114.86	14.93	1.0072		1727.21								37.32	31.99		21.11	8.00	9.33	17.33					0.096	5.79	191.91	191.91	
627+98.91	629+84.05	RT	185.14	16.00	1.0077		2985.05								64.49	55.28		36.48	13.82	16.12	29.94					0.166	10.01	331.67	331.67	
629+84.05	631+44.12	RT	160.07	16.00	1.0154		2600.56								56.18	48.16		31.78	12.04	14.05	26.09					0.144	8.72	288.95	288.95	
631+44.12	631+73.96	CADD						250.37							5.41	4.64		3.06	1.16	1.35	2.51					0.014	0.84	27.82	27.82	
631+73.96	634+99.60	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																												
634+99.60	635+06.36	CADD						54.06										0.66	0.25						6.01					
635+06.36	638+92.34	RT	385.98	16.00	1.0154		6270.79											76.64	29.03						696.75					
638+92.34	639+11.61	RT	19.27	16.00	1.0077		310.69											3.80	1.44						34.52					
639+11.61	639+69.85	RT	58.24	15.97	1.0077		936.96											11.45	4.34						104.11					
639+69.85	641+92.34	RT	222.49	15.94	1.0077		3573.80											43.68	16.55						397.09					
FULL DEPTH SHOULDER																														
625+00.00	626+84.05	LT/IN	184.05	4.00			736.20		61.35		107.36		276.08		17.23	16.76		9.37	3.41	3.98	7.39					0.056	3.40	112.48	112.48	
626+84.05	628+88.66	LT/IN	204.61	4.00	0.9981	0.9962	816.88		67.94		118.90		305.75		19.12	18.59		10.40	3.78	4.41	8.19					0.062	3.77	124.74	124.74	
628+88.66	629+84.05	LT/IN	95.39	5.92	0.9972	0.9943	562.65		31.62		55.33		142.27		12.84	12.03		7.07	2.60	3.04	5.64					0.039	2.36	78.32	78.32	
629+84.05	630+06.69	LT/IN	22.64	8.28	0.9921	0.9841	185.98		7.43		13.00		33.42		4.18	3.82		2.32	0.86	1.00	1.86					0.012	0.74	24.38	24.38	
630+06.69	630+47.42	LT/IN	40.73	9.55	0.9908	0.9817	385.19						59.98		8.32	8.24		4.71	1.78	2.08	3.86		40.73			0.025	1.49	49.46	49.46	
630+47.42	631+15.22	LT/IN	67.80	11.72	0.9888	0.9775	785.38								16.97	14.54		9.60	3.64	4.24	7.88					0.044	2.63	87.26	87.26	
631+15.22	631+44.12	CADD						192.63							4.16	3.57		2.35	0.89	1.04	1.93					0.011	0.65	21.40	21.40	
631+44.12	634+93.15	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																												
634+93.15	634+99.60	CADD						48.04										0.59	0.22						5.34					
634+99.60	635+01.18	LT/IN	1.58	14.02	0.9865	0.9731	21.85											0.27	0.10						2.43					
635+01.18	635+50.00	LT/IN	48.82	14.00	0.9866	0.9731	674.32											8.24	3.12						74.92					
635+50.00	636+97.00	LT/IN	147.00	12.00	0.9885	0.9770	1743.71											21.31	8.07						193.75					
636+97.00	637+02.50	LT/IN	5.50	9.00	0.9914	0.9827	49.07											0.60	0.23						5.45					
637+02.50	638+92.34	LT/IN	189.84	8.00	0.9923	0.9846	1507.03											18.42	6.98						167.45					
638+92.34	640+25.00	LT/IN	132.66	6.50	0.9969	0.9938	859.62											10.51	3.98						95.51					
640+25.00	641+92.34	LT/IN	167.34	5.00	0.9976	0.9952	834.69											10.20	3.86						92.74					
627+96.30	627+98.91	CADD						13.30	0.87		1.52		3.92		0.31	0.29		0.17	0.06	0.07	0.13					0.001	0.06	1.91	1.91	
627+98.91	629+84.05	RT/OUT	185.14	10.00	1.0202	1.0250	1888.80		63.26		110.70		284.65		42.17	38.20		23.47	8.74	10.20	18.94					0.121	7.29	241.49	241.49	
629+84.05	630+64.64	RT/OUT	80.59	10.00	1.0403	1.0499	838.38		28.20		49.36		126.92		18.72	16.96		10.42	3.88	4.53	8.41					0.054	3.24	107.26	107.26	
630+64.64	631+73.27	RT/OUT	108.63	7.83	1.0382	1.0458	883.06		37.87		66.27		170.41		19.90	18.28		11.02	4.09	4.77	8.86					0.059	3.53	117.05	117.05	
631+73.27	631+73.96	RT/OUT	0.69	5.64	1.0361	1.0415	4.03						1.08		0.09	0.09		0.05	0.02	0.02	0.04		0.72			0.000	0.02	0.57	0.57	
631+73.96	631+82.79	CADD						25.26					13.88		0.55	0.72		0.31	0.12	0.14	0.26		9.25			0.002	0.13	4.35	4.35	
631+82.79	635+06.36	SUSPEND AND RESUME EXISTING BRIDGE TO REMAIN																												
635+06.36	635+08.05	CADD						3.62										0.04	0.02						0.40					
635+08.05	635+47.23	RT/OUT	39.18	8.09	1.0385	1.0462	328.97											4.02	1.52						36.55					
635+47.23	637+50.00	RT/OUT	202.77	12.00	1.0422	1.0538	2535.92											30.99	11.74						281.77					
637+50.00	637+94.08	RT/OUT	44.08	11.00	1.0413	1.0518	504.91											6.17	2.34						56.10					
637+94.08	638+92.34	RT/OUT	98.26	10.00	1.0403	1.0499	1022.20											12.49	4.73						113.58					
638+92.34	639+11.61	RT/OUT	19.27	10.00	1.0202	1.0250	196.59											2.40	0.91						21.84					
639+11.61	639+14.10	CADD						13.01										0.16	0.06						1.45					
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**378**	**335**		**475**	**180**	**93**	**173**		**51**		**2388**	**2**	**63**	**2067**	**2067**	

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR7" EXTENSION	AREA FOR 12" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	302 7" ASPHALT CONCRETE BASE, PG64-22 (449)	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	442 ANTI-SEGREGATION EQUIPMENT	452 10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA	609 CURB, TYPE 4-C	609 CURB, TYPE 6		204 PROOF ROLLING (1 HOUR/2000 SY)	206 CEMENT (0.75 X T X 115 X 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 14" DEEP
FROM	TO		FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	CY	CY		GAL	CY	CY	CY	SY	FT	FT		HOUR	TON	SY	SY
RAMP W-S (I-77) BL																														
FULL DEPTH LANES																														
520+97.52	521+19.22	CADD						263.99							5.70	4.89		3.23	1.22	1.43	2.65					0.015	0.89	29.33	29.33
521+19.22	525+00.00	LT	380.78	24.00	1.0052		9186.24								198.47	170.12		112.28	42.53	49.62	92.15					0.510	30.81	1020.69	1020.69
525+00.00	525+28.74	LT	28.74	12.00	1.0026		345.78								7.47	6.40		4.23	1.60	1.87	3.47					0.019	1.16	38.42	38.42
525+28.74	525+83.53	LT	54.79	12.00	1.0045		660.44								14.27	12.23		8.07	3.06	3.57	6.63					0.037	2.22	73.38	73.38
525+83.53	527+62.72	LT	179.19	13.71	1.0051		2469.22								53.35	45.73		30.18	11.43	13.34	24.77					0.137	8.28	274.36	274.36
527+62.72	527+92.98	LT	30.26	15.71	1.0082		479.28								10.35	8.88		5.86	2.22	2.59	4.81					0.027	1.61	53.25	53.25
527+92.98	528+83.00	LT	90.02	16.00	1.0084		1452.42								31.38	26.90		17.75	6.72	7.84	14.56					0.081	4.87	161.38	161.38
FULL DEPTH SHOULDER																														
521+81.23	521+85.00	CADD						14.31	1.26		2.20		5.65		0.34	0.33		0.18	0.07	0.08	0.15					0.001	0.07	2.22	2.22
521+85.00	525+00.00	LT/IN	315.00	4.00	1.0113	1.0122	1274.24		106.28		185.99		478.26		29.83	29.01		16.22	5.90	6.88	12.78					0.097	5.88	194.72	194.72
527+92.98	528+77.46	LT/IN	84.48	10.00	1.0220	1.0272	863.39		28.93		50.62		130.17		19.28	17.46		10.73	4.00	4.66	8.66					0.055	3.33	110.40	110.40
528+77.46	528+83.00	LT/IN	5.54	10.56	1.0223	1.0278	59.78		1.90		3.32		8.54		1.33	1.20		0.74	0.28	0.32	0.60					0.004	0.23	7.59	7.59
521+19.22	521+30.10	CADD						63.99							1.38	1.19		0.78	0.30	0.35	0.65					0.004	0.21	7.11	7.11
521+30.10	521+55.75	RT/OUT	25.65	11.77	0.9974	0.9949	301.12						38.28		6.51	6.29		3.68	1.39	1.63	3.02		25.52			0.019	1.14	37.71	37.71
521+55.75	521+78.33	RT/OUT	22.58	11.32	0.9975	0.9951	254.89						33.70		5.51	5.34		3.12	1.18	1.38	2.56		22.47			0.016	0.97	32.07	32.07
521+78.33	522+00.00	RT/OUT	21.67	10.43	0.9977	0.9954	225.53		7.19		12.58		32.36		5.03	4.54		2.80	1.04	1.22	2.26					0.014	0.86	28.65	28.65
522+00.00	525+00.00	RT/OUT	300.00	10.00	0.9978	0.9956	2993.40		99.56		174.23		448.02		66.82	60.50		37.19	13.86	16.17	30.03					0.191	11.54	382.38	382.38
525+00.00	525+28.74	RT/OUT	28.74	10.00	0.9978	0.9956	286.77		9.54		16.69		42.92		6.40	5.80		3.56	1.33	1.55	2.88					0.018	1.11	36.63	36.63
525+28.74	527+62.72	RT/OUT	233.98	10.00	0.9963	0.9926	2331.14		77.42		135.48		348.37		52.04	47.11		28.96	10.79	12.59	23.38					0.149	8.99	297.72	297.72
527+62.72	528+62.20	RT/OUT	99.48	10.00	0.9948	0.9895	989.63		32.81		57.42		147.65		22.09	20.00		12.30	4.58	5.35	9.93					0.063	3.81	126.36	126.36
528+62.20	528+83.00	RT/OUT	20.80	10.42	0.9945	0.9891	215.44		6.86		12.00		30.86		4.80	4.34		2.68	1.00	1.16	2.16					0.014	0.83	27.37	27.37
W. 7TH STREET CL																														
FULL DEPTH LANE																														
12+86.12	13+22.92	LT	36.80	12.00			441.60									8.18						49.07				0.025	1.48	49.07	49.07
13+22.92	14+45.00	LT	122.08	12.00	1.0188		1492.50									27.64						165.83				0.083	5.01	165.83	165.83
14+45.00	14+48.31	CADD						36.51								0.68						4.06				0.002	0.12	4.06	4.06
FULL DEPTH SHOULDER																														
12+86.12	13+22.92	LT/OUT	36.80	4.00			147.20						55.20			3.75						16.36		36.80		0.011	0.68	22.49	22.49
13+22.92	13+82.36	LT/OUT	59.44	4.00	1.0272	1.0293	244.23						91.77			6.22						27.14		61.18		0.019	1.13	37.33	37.33
13+82.36	14+45.00	LT/OUT	62.64	6.09	1.0283	1.0315	391.95						96.92			9.05						43.55		64.61		0.027	1.64	54.32	54.32
14+45.00	14+48.77	CADD						30.30					0.00			0.56						3.37		3.97		0.002	0.10	3.37	3.37
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**543**	**535**		**305**	**115**	**134**	**249**	**310**	**48**	**167**		**2**	**99**	**3279**	**3279**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA							RESHAPING UNDER GUARDRAIL, AS PER PLAN		3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN
															209		441
FROM	TO		FT	FT			SF	SF							STA		CY
PAVING UNDER GUARDRAIL																	
WESTBOUND I-490 CL																	
943+00.00	948+00.00	LT	500.00	5.00	0.9886		2471.50								4.94		22.62
963+75.00	964+68.90	LT	93.90	5.00	1.0005		469.73								0.94		4.35
964+68.90	965+78.46	LT	109.56	5.00	1.0186		557.99								1.12		5.26
976+46.59	979+78.79	LT	332.20	5.00	0.9880		1641.07								3.28		15.01
979+78.79	981+53.10	LT	174.31	5.00	0.9761		850.72								1.70		7.69
982+03.26	983+53.47	LT	150.21	5.00	0.9761		733.10								1.47		6.63
983+53.47	983+63.47	LT	10.00	5.00	0.9880		49.40								0.10		0.45
1026+25.16	1027+93.70	LT	168.54	5.00	1.0068		848.43								1.70		7.91
1032+75.00	1035+00.00	LT	225.00	5.00			1125.00								2.25		10.42
WESTBOUND I-490 BL																	
3035+00.00	3035+62.50	LT	62.50	5.00			312.50								0.63		2.89
3035+62.50	3036+52.21	LT	90.63	CADD				1026.20							0.91		9.50
3041+87.50	3043+00.00	LT	112.50	5.00			562.50								1.13		5.21
3043+00.00	3043+12.47	LT	12.47	5.00	1.0028		62.52								0.13		0.58
3043+12.47	3044+01.91	LT	90.62	CADD				1029.13							0.91		9.53
3045+05.00	3045+17.89	RT	12.89	5.00	0.9950		64.13								0.13		0.59
3045+17.89	3046+86.29	RT	168.40	5.00			842.00								1.68		7.80
EASTBOUND I-490 CL																	
939+11.20	940+05.22	RT	94.02	5.00			470.10								0.94		4.35
945+59.41	948+49.46	RT	290.05	5.00	1.0155		1472.73								2.95		13.85
949+27.46	951+37.42	RT	209.96	5.00	1.0155		1066.07								2.13		10.02
958+00.00	962+17.51	RT	417.51	5.00			2087.55								4.18		19.33
962+17.51	965+50.00	RT	332.49	5.00	0.9806		1630.20								3.26		14.80
965+50.00	967+84.10	RT	234.10	5.00	0.9814		1148.73								2.30		10.44
967+84.10	975+78.77	RT	794.67	5.00			3973.35								7.95		36.79
975+78.77	976+00.00	RT	21.23	5.00	0.9873		104.80								0.21		0.96
976+00.00	976+24.72	RT	24.72	5.00	0.9874		122.04								0.24		1.12
980+31.13	980+59.02	RT	27.89	5.00	1.0320		143.91								0.29		1.38
980+59.02	981+34.46	RT	75.44	5.00	1.0317		389.16								0.78		3.72
981+86.86	983+54.13	RT	167.27	5.00	1.0305		861.86								1.72		8.22
983+54.13	985+63.99	RT	209.86	5.00	1.0144		1064.41								2.13		10.00
1029+29.36	1030+87.13	RT	157.77	5.00	0.9935		783.72								1.57		7.21
1030+87.13	1035+00.00	RT	412.87	5.00			2064.35								4.13		19.11
		RT															
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**58**		**278**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY- 490-0.00

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA							209		441
															RESHAPING UNDER GUARDRAIL, AS PER PLAN		3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN
FROM	TO		FT	FT			SF	SF							STA		CY
PAVING UNDER GUARDRAIL CONTD.																	
EASTBOUND I-490 BL																	
2035+00.00	2035+88.05	RT	88.05	5.00	0.9936		437.43								0.87		4.02
2041+43.31	2044+12.48	RT	269.17	5.00	1.0024		1349.08								2.70		12.52
RAMP E-S (I-71) BL																	
3047+25.46	3048+92.42	LT/OUT	166.96	5.00	1.0077		841.23								1.68		7.85
3048+92.42	3049+09.37	LT/OUT	16.95	5.00	1.0050		85.17								0.17		0.79
3049+87.03	3050+30.81	LT/OUT	43.78	5.00	1.0062		220.26								0.44		2.05
3050+30.81	3050+79.24	LT/OUT	48.43	5.00	1.0065		243.72								0.49		2.27
3050+79.24	3052+55.57	LT/OUT	176.33	5.00			881.65								1.76		8.16
3048+04.43	3048+92.42	RT/IN	87.99	5.00	0.9688		426.22								0.85		3.82
3048+92.42	3050+79.24	RT/IN	186.82	5.00	0.9842		919.34								1.84		8.38
3050+79.24	3053+16.33	RT/IN	237.09	5.00			1185.45								2.37		10.98
3053+16.33	3056+31.68	RT/IN	315.35	5.00	1.0106		1593.46								3.19		14.91
3056+31.68	3057+13.09	RT/IN	81.41	5.00			407.05								0.81		3.77
RAMP S-E (I-71) BL																	
2049+00.00	2049+19.91	LT/IN	19.91	5.00	1.0399		103.52								0.21		1.00
2049+19.91	2049+36.72	LT/IN	16.81	5.00	1.0195		85.69								0.17		0.81
2049+36.72	2051+22.48	LT/IN	185.76	5.00	1.0192		946.63								1.89		8.93
2052+23.81	2053+91.73	RT/OUT	167.92	5.00	0.9937		834.31								1.67		7.68
2053+91.73	2054+31.00	RT/OUT	39.27	5.00			196.35								0.39		1.82
2054+79.00	2058+00.00	RT/OUT	321.00	5.00			1605.00								3.21		14.86
RAMP 7-7C BL																	
68+37.92	69+45.01	LT/IN	141.41	CADD				638.87							1.41		5.92
69+45.01	70+06.56	LT/IN	61.55	5.00			307.75								0.62		2.85
70+06.56	73+06.56	LT/IN	300.00	5.00	1.0750		1612.50								3.23		16.05
73+06.56	77+08.06	LT/IN	401.50	5.00	1.0919		2191.99								4.38		22.16
RAMP C-7 BL																	
82+22.18	85+57.35	RT/IN	335.17	5.00			1675.85								3.35		15.52
RAMP B-C BL																	
14+97.59	15+32.54	LT/OUT	34.95	5.00	0.9932		173.56								0.35		1.60
15+32.54	15+42.69	LT/OUT	10.15	5.00	0.9864		50.06								0.10		0.46
15+42.69	15+61.55	LT/OUT	18.86	5.00	0.9859		92.97								0.19		0.85
15+61.55	16+25.72	LT/OUT	64.17	5.00	0.9853		316.13								0.63		2.88
17+71.99	18+15.00	RT/IN	46.06	CADD				230.91							0.46		2.14
RAMP C-B BL																	
14+50.41	15+19.03	LT/IN	68.62	5.00			343.10								0.69		3.18
14+90.50	16+13.49	RT/OUT	122.99	5.00			614.95								1.23		5.69
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**42**		**194**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA							209		441												
															RESHAPING UNDER GUARDRAIL, AS PER PLAN		3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN												
FROM	TO		FT	FT			SF	SF							STA		CY												
PAVING UNDER GUARDRAIL CONTD.																													
RAMP E-N (I-77) BL																													
729+60.55	732+20.83	LT/OUT	260.28	5.00			1301.40								2.60		12.05												
742+40.07	743+99.26	LT/OUT	159.19	5.00			795.95								1.59		7.37												
743+99.26	744+96.66	LT/OUT	97.40	5.00	0.9978		485.93								0.97		4.49												
729+14.74	732+49.90	RT/IN	335.16	5.00			1675.80								3.35		15.52												
742+76.34	743+99.26	RT/IN	122.92	5.00			614.60								1.23		5.69												
743+99.26	745+07.16	RT/IN	107.90	5.00	1.0053		542.36								1.08		5.05												
RAMP E-S (I-77) BL																													
835+77.24	837+43.44	LT/OUT	166.20	5.00	1.0788		896.48								1.79		8.95												
837+43.44	837+59.70	LT/OUT	16.26	5.00	1.0612		86.28								0.17		0.85												
837+59.70	837+61.18	LT/OUT	1.48	5.00	1.0306		7.63								0.02		0.07												
836+47.49	836+49.40	RT/IN	1.91	5.00	0.9747		9.31								0.02		0.08												
836+49.40	837+59.70	RT/IN	110.30	5.00	0.9749		537.66								1.08		4.85												
837+59.70	840+59.70	RT/IN	300.00	5.00	0.9905		1485.75								2.97		13.63												
840+59.70	841+35.20	RT/IN	75.50	5.00			377.50								0.76		3.50												
RAMP N-E (I-77) BL																													
437+35.71	438+80.00	LT/IN	144.29	5.00	0.9955		718.20								1.44		6.62												
438+80.00	440+30.00	LT/IN	150.00	5.00	0.9934		745.05								1.49		6.85												
440+30.00	440+77.67	LT/IN	47.67	5.00	0.9913		236.28								0.47		2.17												
440+77.67	442+50.00	LT/IN	172.33	5.00	0.9965		858.63								1.72		7.92												
442+50.00	442+77.67	LT/IN	27.67	5.00	0.9957		137.76								0.28		1.27												
442+77.67	443+22.87	LT/IN	45.20	5.00			226.00								0.45		2.09												
RAMP N-W (I-77) BL																													
120+07.04	124+65.73	LT/OUT	458.69	5.00			2293.45								4.59		21.24												
124+65.73	125+60.17	LT/OUT	94.44	5.00	0.9880		466.53								0.93		4.27												
123+02.56	124+14.63	RT/IN	112.07	5.00			560.35								1.12		5.19												
RAMP S-E (I-77) BL																													
340+80.75	342+69.52	RT/OUT	188.77	5.00	0.9798		924.78								1.85		8.39												
342+69.52	343+41.79	RT/OUT	72.27	5.00	0.9919		358.42								0.72		3.29												
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**33**		**152**												

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA							209		441
															RESHAPING UNDER GUARDRAIL, AS PER PLAN		3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN
FROM	TO		FT	FT			SF	SF							STA		CY
PAVING UNDER GUARDRAIL CONTD.																	
RAMP S-W (I-77) BL																	
224+14.63	225+54.00	RT/IN	139.37	5.00	0.9977		695.25								1.39		6.42
225+54.00	226+04.00	RT/IN	50.00	5.00	0.9974		249.35								0.50		2.30
226+04.00	226+14.63	RT/IN	10.63	5.00	0.9970		52.99								0.11		0.49
226+14.63	228+90.53	RT/IN	275.90	5.00	0.9941		1371.36								2.74		12.62
228+90.53	230+02.65	RT/IN	112.12	5.00	0.9896		554.77								1.11		5.08
230+02.65	230+18.15	RT/IN	15.50	5.00	0.9900		76.73								0.15		0.70
RAMP W-N (I-77) BL																	
628+21.02	629+84.05	LT/IN	163.03	5.00	0.9938		810.10								1.62		7.45
629+84.05	630+47.42	LT/IN	63.37	5.00	0.9776		309.75								0.62		2.80
629+70.37	629+84.05	RT/OUT	13.68	5.00	1.0274		70.27								0.14		0.67
629+84.05	630+64.64	RT/OUT	80.59	5.00	1.0547		424.99								0.85		4.15
630+64.64	631+94.49	RT/OUT	129.85	5.00	1.0501		681.78								1.36		6.63
RAMP W-S (I-77) BL																	
521+30.10	521+55.75	RT/OUT	25.65	5.00	0.9938		127.45								0.25		1.17
521+55.75	522+00.00	RT/OUT	44.25	5.00	0.9942		219.97								0.44		2.02
522+00.00	522+41.11	RT/OUT	41.11	5.00	0.9945		204.42								0.41		1.88
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**12**		**55**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA							PRIME COAT, AS PER PLAN (0.4 GAL/SY)		WATER ((A*0.300)/1000)	COMPACTED AGGREGATE, AS PER PLAN (T=2")	SHOULDER PREPARATION
															408		617	617	617
FROM	TO		FT	FT			SF	SF							GAL		MGAL	CY	SY
SHOULDER PREPARATION/COMPACTED AGGREGATE																			
WESTBOUND I-490 CL																			
1020+36.48	1021+50.00	LT/OUT	113.52	5.00			567.60								25.23		0.17	3.50	63.07
1021+50.00	1022+51.23	LT/OUT	101.23	2.00			202.46								9.00		0.06	1.25	22.50
1022+51.23	1023+49.97	STATION EQUATION																	
1023+49.97	1025+00.00	LT/OUT	150.03	2.00	1.0063		301.95								13.50		0.09	1.88	33.76
1025+00.00	1025+50.00	LT/OUT	50.00	5.00	1.0065		251.63								11.26		0.08	1.56	28.14
1025+50.00	1026+25.16	LT/OUT	75.16	2.00	1.0063		151.27								6.77		0.05	0.94	16.91
1027+93.70	1029+50.00	LT/OUT	156.30	5.00	1.0065		786.58								35.19		0.24	4.89	87.97
1029+50.00	1030+87.13	LT/OUT	137.13	5.00	1.0065		690.11								30.87		0.21	4.29	77.18
1030+87.13	1032+75.00	LT/OUT	187.87	2.00			375.74								16.70		0.11	2.32	41.75
WESTBOUND I-490 BL																			
3036+52.21	3041+87.50	LT/OUT	535.29	2.00			1070.58								47.58		0.32	6.61	118.95
3044+01.91	3045+17.89	LT/OUT	115.98	2.00	0.9975		231.38								10.26		0.07	1.42	25.64
3045+17.89	3047+18.60	LT/OUT	200.71	2.00			401.42								17.84		0.12	2.48	44.60
3047+18.60	3047+65.00	LT/OUT	46.40	2.00	0.9939		92.23								4.07		0.03	0.57	10.19
EASTBOUND I-490 CL																			
1021+87.40	1022+51.23	RT/IOUT	63.83	5.00			319.15								14.18		0.10	1.97	35.46
1022+51.23	1023+49.97	STATION EQUATION																	
1023+49.97	1029+33.40	RT/IOUT	583.43	5.00	0.9935		2898.19								127.97		0.86	17.77	322.02
RAMP E-S (I-71)																			
3039+00.00	3040+69.11	RT/OUT	169.11	5.00	1.0128		856.37								38.55		0.26	5.35	96.37
3040+69.11	3041+77.91	RT/OUT	108.80	5.00	1.0128		550.96								24.80		0.17	3.44	62.00
3041+77.91	3042+04.50	RT/OUT	26.59	5.00	1.0102		134.31								6.03		0.04	0.84	15.08
3042+04.50	3042+13.73	RT/OUT	9.23	5.00	1.0112		46.67								2.10		0.01	0.29	5.24
3036+66.36	3036+76.74	LT/IN	10.38	5.00	0.9843		51.09								2.24		0.02	0.31	5.59
3036+76.74	3038+00.95	LT/IN	124.21	5.00	0.9842		611.24								26.74		0.18	3.71	66.84
3038+00.95	3039+00.00	LT/IN	99.05	5.00	0.9842		487.43								21.32		0.14	2.96	53.30
3039+00.00	3040+69.11	LT/IN	169.11	5.00	0.9842		832.19								36.40		0.25	5.06	91.00
3040+69.11	3042+06.87	LT/IN	137.76	5.00	0.9842		677.92								29.65		0.20	4.12	74.13
3042+06.87	3042+13.72	LT/IN	6.85	2.00	0.9569		13.11								0.56		0.00	0.08	1.39
RAMP 7-7C																			
68+92.48	70+06.56	RT/IN	114.08	2.00			228.16								10.14		0.07	1.41	25.35
70+06.56	73+06.56	RT/IN	300.00	2.00	0.9756		585.36								25.38		0.17	3.53	63.45
73+06.56	74+00.00	RT/IN	93.44	2.00	0.9701		181.29								7.82		0.05	1.09	19.54
74+00.00	77+59.02	RT/IN	359.02	2.00	0.9701		696.57								30.03		0.20	4.17	75.08
77+59.02	80+34.23	RT/IN	275.21	5.00			1376.05								61.16		0.41	8.49	152.89
RAMP E-N (I-77)																			
734+50.00	736+34.24	LT/IN	184.24	2.00			368.48								16.38		0.11	2.27	40.94
736+34.24	739+15.85	LT/IN	281.61	2.00	1.0293		579.72								26.52		0.18	3.68	64.41
745+07.16	746+36.56	LT/IN	129.40	2.00	1.0051		260.12								11.62		0.08	1.61	28.90
746+36.56	746+47.57	LT/IN	11.01	2.00	1.0051		22.13								0.99		0.01	0.14	2.46
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**749**		**6**	**104**	**1873**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY- 490-0.00

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA							PRIME COAT, AS PER PLAN (0.4 GAL/SY)		WATER ((A*0.300)/1000)	COMPACTED AGGREGATE, AS PER PLAN (T=2")	SHOULDER PREPARATION
															408		617	617	617
FROM	TO		FT	FT			SF	SF							GAL		MGAL	CY	SY
SHOULDER PREPARATION/COMPACTED AGGREGATE CONTD.																			
RAMP E-N (I-77) (CONTD.)																			
739+00.00	739+73.67	RT/OUT	73.67	5.00	0.9825		361.90								15.80		0.11	2.19	40.21
739+73.67	740+26.99	RT/OUT	53.32	5.00			266.60								11.85		0.08	1.65	29.62
745+50.00	746+47.57	RT/OUT	97.57	5.00	0.9978		486.78								0.00		0.00	0.00	54.09
RAMP N-E (I-77)																			
438+00.00	440+00.00	RT/OUT	200.00	5.00	0.9801		980.10								42.69		0.29	5.93	108.90
440+00.00	440+77.67	RT/OUT	77.67	5.00	0.9822		381.44								16.65		0.11	2.31	42.38
440+77.67	441+50.00	RT/OUT	72.33	5.00			361.65								16.07		0.11	2.23	40.18
RAMP N-W (I-77)																			
120+50.00	121+50.00	LT/IN	100.00	5.00			500.00								22.22		0.15	3.09	55.56
121+50.00	122+98.85	LT/IN	148.85	2.00			297.70								13.23		0.09	1.84	33.08
126+61.20	127+15.73	LT/IN	54.53	5.00			272.65								12.12		0.08	1.68	30.29
127+15.73	127+50.00	LT/IN	34.27	5.00	1.0432		178.75								8.29		0.06	1.15	19.86
127+50.00	128+50.00	LT/IN	100.00	2.00	1.0403		208.06								9.62		0.06	1.34	23.12
128+50.00	130+85.59	LT/IN	235.59	2.00	1.0403		490.17								22.66		0.15	3.15	54.46
130+85.59	131+37.76	LT/IN	52.17	5.00	1.0452		272.64								12.67		0.09	1.76	30.29
129+00.00	131+00.00	RT/OUT	200.00	5.00	0.9760		976.00								42.34		0.29	5.88	108.44
RAMP S-E (I-77)																			
336+50.00	340+00.00	LT/IN	350.00	5.00	1.0492		1836.10								85.62		0.58	11.89	204.01
340+00.00	340+80.75	LT/IN	80.75	2.00	1.0468		169.06								7.87		0.05	1.09	18.78
345+02.47	347+00.00	LT/IN	197.53	2.00			395.06								17.56		0.12	2.44	43.90
336+50.00	336+53.43	RT/OUT	3.43	5.00	0.9781		16.77								0.00		0.00	0.10	1.86
336+53.43	341+50.00	RT/OUT	496.57	5.00	0.9798		2432.70								0.00		0.72	14.71	270.30
342+00.00	342+69.52	RT/OUT	69.52	5.00	0.9798		340.58								0.00		0.10	2.06	37.84
342+69.52	342+97.40	RT/OUT	27.88	5.00			139.40								6.20		0.04	0.86	15.49
RAMP W-N (I-77)																			
625+00.00	625+50.00	LT/IN	50.00	5.00			250.00								11.11		0.08	1.54	27.78
625+50.00	627+50.00	LT/IN	200.00	2.00			400.00								17.78		0.12	2.47	44.44
628+00.00	628+21.02	LT/IN	21.02	2.00			42.04								1.87		0.01	0.26	4.67
628+50.00	629+70.34	RT/OUT	120.34	5.00			601.70								26.74		0.18	3.71	66.86
RAMP W-S (I-77)																			
521+81.23	522+50.00	LT/IN	68.77	5.00	1.0133		348.42								15.69		0.11	2.18	38.71
522+50.00	524+00.00	LT/IN	150.00	2.00	1.0127		303.81								13.67		0.09	1.90	33.76
524+00.00	525+00.00	LT/IN	100.00	5.00	1.0133		506.65								22.82		0.15	3.17	56.29
522+40.19	525+28.74	RT/OUT	288.55	5.00	0.9945		1434.81								63.42		0.43	8.81	159.42
525+28.74	527+62.72	RT/OUT	233.98	5.00	0.9907		1159.02								51.03		0.34	7.09	128.78
527+62.72	528+50.00	RT/OUT	87.28	5.00	0.9869		430.68								18.89		0.13	2.62	47.85
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**607**		**5**	**102**	**1872**

CALCULATED BMV
CHECKED NRB

PAVEMENT CALCULATIONS

CUY - 490-0.00

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA							618						442								
															RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)						ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M								
FROM	TO		FT	FT			SF	SF							MILE						CY								
				RUMBLE STRIPS																									
WESTBOUND I-490 CL																													
933+23.03	964+34.02	LT/OUT	3110.99												0.589														
964+34.02	985+64.31	LT/OUT	2130.29												0.403														
1020+43.75	1022+51.23	LT/OUT	207.48												0.039														
1022+51.23	1023+49.97			STATION EQUATION																									
1023+49.97	1035+00.00	LT/OUT	1150.03												0.218														
933+23.03	985+65.38	LT/IN	5242.35												0.993														
1020+65.71	1022+51.23	LT/IN	185.52												0.035														
1022+51.23	1023+49.97			STATION EQUATION																									
1023+49.97	1035+00.00	LT/IN	1150.03												0.218														
WESTBOUND I-490 BL																													
3035+00.00	3048+63.44	LT/OUT	1363.44												0.258														
3035+00.00	3045+83.99	RT/IN	1083.99												0.205														
EASTBOUND I-490 CL																													
933+23.03	959+00.00	RT/OUT	2576.97												0.488														
959+00.00	981+59.02	RT/OUT	2259.02												0.428														
981+59.02	985+66.83	RT/OUT	407.81												0.077														
1020+90.89	1022+51.23	RT/OUT	160.34												0.030														
1022+51.23	1023+49.97			STATION EQUATION																									
1023+49.97	1035+00.00	RT/OUT	1150.03												0.218														
933+23.03	985+65.60	RT/IN	5242.57												0.993														
1020+73.09	1022+51.23	RT/IN	178.14												0.034														
1022+51.23	1023+49.97			STATION EQUATION																									
1023+49.97	1035+00.00	RT/IN	1150.03												0.218														
EASTBOUND I-490 BL																													
2035+00.00	2038+50.84	LT/IN	350.84												0.066														
2035+00.00	2038+49.33	RT/OUT	349.33												0.066														
				BARRIER DEDUCTIONS																									
WESTBOUND/EASTBOUND I-490 CL																													
933+23.03	985+65.44	LT/RT	5242.41	2.81			14731.17														-68.20								
1020+67.19	1035+00.00	LT/RT	1432.81	2.81			4026.20														-18.64								
WESTBOUND I-490 BL																													
1035+00.00	1045+04.87	CTR	1004.87	2.81			2823.68														-13.07								
EASTBOUND I-490 BL																													
2036+24.84	2037+00.00	CTR	75.16	1.90			142.80														-0.66								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**5.58**						**-101**								

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY-490-0.00

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	EACH	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 7" EXTENSION			302 7" ASPHALT CONCRETE BASE, PG64-22 (449)	304 6" AGGREGATE BASE	407 NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	442 ANTI-SEGREGATION EQUIPMENT	601 CONCRETE SLOPE PROTECTION		622 CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C1, AS PER PLAN	622 CONCRETE BARRIER END SECTION, TYPE B1	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN	622 BARRIER TRANSITION
			FT	FT			SF	SF		SF	SF	SF			CY	CY	GAL	CY	CY	SY		FT	FT	FT	EACH	EACH	EACH	EACH	EACH
			BARRIER																											
WESTBOUND/EASTBOUND I-490																														
933+23.03	985+65.44	LT/RT	5242.41																				5242.41				48.00	7.00	26.00
1020+67.19	1022+51.23	LT/RT	184.04																				184.04				2.00	1.00	2.00
1022+51.23	1023+49.97	LT/RT	STATION EQUATION																											
1023+49.97	1035+00.00	LT/RT	1150.03																				1150.03				8.00		3.00
1035+00.00	1037+00.00	LT/RT	200.00	CADD				1037.38							22.41	19.21	12.68	5.60	5.60			45.00	125.00	30.00			3.00		1.00
WESTBOUND I-490 BL																														
3037+00.00	3045+05.00	RT	805.00	2.70			2173.50			268.33	402.50	469.58			61.45	61.37	33.12	13.91	13.91			805.00			1.00	6.00			2.00
EASTBOUND I-490 CL																														
940+05.22	945+59.41	RT/OUT	554.19	2.70	1.0152	1.0156	1519.06			187.61	281.42	328.32			42.95	42.90	23.15	9.72	9.72										
951+37.42	952+50.00	RT/OUT	112.58	2.70	1.0152	1.0156	308.59			38.11	57.17	66.70			8.73	8.71	4.70	1.98	1.98										
952+50.00	953+50.00	RT/OUT	100.00	CADD				526.16							11.37	9.74	6.43	2.84	2.84										
DEDUCTIONS																														
OVERHEAD SIGN FOUNDATIONS/HIGH MAST LIGHT			10.00						10.00														-100.00						
MEDIAN INLETS			20.00						26.00													-40.00	-480.00						
LIGHT POLE FOUNDATION / PULLBOXES			8.00						18.00														-144.00						
END ANCHORAGES, TYPE B1			15.00						6.00													-90.00							
END ANCHORAGES, TYPE C1			15.00						61.00														-915.00						
END ANCHORAGES, TYPE C1, AS PER PLAN (8 TOTAL)			133.41						1.00														-133.41						
CONCRETE SLOPE PROTECTION																														
1037+00.22	1045+05.00	RT	804.78	CADD				13109.10												1456.57									
TOTALS CARRIED TO PAVEMENT SUBSUMMARY															**147**	**142**	**81**	**35**	**35**	**1457**		**720**	**4930**	**30**	**1**	**6**	**61**	**8**	**34**

CALCULATED BMV

CHECKED NRB

PAVEMENT CALCULATIONS

CUY-490-0.00

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA									304		609							204	206	206	206	CALCULATED BMV / CHECKED NRB
																	4" AGGREGATE BASE		4" CONCRETE TRAFFIC ISLAND							PROOF ROLLING (1 HOUR/2000 SY)	CEMENT (0.75 X T X 115 X 0.05) LB/SY	CURING COAT	CEMENT STABILIZED SUBGRADE, 14" DEEP	
FROM	TO		FT	FT			SF	SF									CY		SY							HOUR	TON	SY	SY	
CONCRETE TRAFFIC ISLANDS																														
RAMP 7-7C																														
68+37.25	68+60.44	RT	23.19	CADD				184.87									2.28		20.54											
RAMP C-B																														
16+07.78	16+98.21	LT	90.43	CADD				1536.46									18.97		170.72											
WB I-490																														
3050+40.44	3050+60.55	LT	20.11	CADD				232.90									2.88		25.88											
PART-WIDTH CONSTRUCTION SUBGRADE TREATMENT DEDUCTIONS																														
RAMP E-N (I-77)/RAMP E-S (I-77)																														
740+61.33	742+23.67	RT	162.34	CADD				1466.20																		-0.081	-4.92	-162.91	-162.91	
840+60.61	842+23.67	LT	163.06																											
RAMP E-N (I-77)/RAMP E-S (I-77)																														
525+00.00	526+23.93	RT	123.93	CADD				1164.80																		-0.065	-3.91	-129.42	-129.42	
625+00.00	626+24.74	LT	124.74																											
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	25		218							-1	-9	-293	-293	

PAVEMENT CALCULATIONS

CUY-490-0.00