

SHEET NO.	302		304			305		305		407			407		441		441								
	10.5" ASPHALT CONCRETE BASE, PG64-22, (448)		6" AGGREGATE BASE			8" CONCRETE BASE, CLASS QC 1P		9" CONCRETE BASE, CLASS QC 1P		NON-TRACKING TACK COAT			TACK COAT, 702.13 (0.070 GAL/SY - 1 APPLICATION)		1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG64-22		1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)								
	CY		CY			SY		SY		GAL			GAL		CY		CY								
	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	06/MPO/04	01/IMS/04	01/IMS/04	06/MPO/04	01/IMS/04	06/MPO/04	01/IMS/04	01/IMS/04	06/MPO/04	01/IMS/04	06/MPO/04	01/IMS/04	06/MPO/04	01/IMS/04	06/MPO/04						
3	3521	2348	2012	1342							1992	1328													
4	4081	2721	2340	1561							2307	1538													
5	802	535	478	319							449	299													
6	605	404	348	232							342	228			5	3									
7																									
8			780				293		3251		195			248		123			173						
9			157						844		47			60		30			41						
10			108		29				-171	171	-10		10	-12	12	-6	6		-9	9					
<b>TOTALS CARRIED TO THE GENERAL SUMMARY</b>	<b>9009</b>	<b>6008</b>	<b>6223</b>	<b>3454</b>	<b>29</b>		<b>293</b>		<b>3924</b>	<b>171</b>	<b>5322</b>	<b>3393</b>	<b>10</b>	<b>301</b>	<b>15</b>	<b>147</b>	<b>6</b>		<b>205</b>	<b>9</b>					
SHEET NO.	442		442			442		SPECIAL		452		452		511		608		609		609		609		872	
	1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG70-22M		1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)			ANTI-SEGREGATION EQUIPMENT		PRESSURE RELIEF JOINT, TYPE A		10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN		12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P		9" CLASS QC1 CONCRETE, SUBSTRUCTURE, AS PER PLAN		WALKWAY, MISC.; BRICK PAYER CROSSWALK		CURB, MISC.; COLUMBUS 18" GRANITE CURB "A"		CURB, MISC.; COLUMBUS 18" GRANITE CURB "B"		CURB, MISC.; COLUMBUS 18" CONCRETE CURB		VOID REDUCING ASPHALT MEMBRANE (VRAM)	
	CY		CY			CY		FT		SY		SY		CY		SF		FT		FT		FT		FT	
	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	07/NHS/04/ COL	08/ENH/ 04/COL	08/ENH/ 04/COL	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04		
3	503	336	587	392			877	585																	
4	562	375	679	453			909	606																	
5	86	57	130	87																					
6	81	54	101	67																			13649	9100	
7																									
8											5	856						1071	392						
9									215		7	6				3358	151	70	264						
10																									
<b>TOTALS CARRIED TO THE GENERAL SUMMARY</b>	<b>1232</b>	<b>822</b>	<b>1497</b>	<b>999</b>			<b>1786</b>	<b>1191</b>	<b>215</b>		<b>12</b>	<b>862</b>		<b>16</b>	<b>11</b>	<b>3358</b>	<b>1222</b>	<b>462</b>	<b>264</b>	<b>13649</b>	<b>9100</b>				

**PAVEMENT SUBSUMMARY**

**FRA - 70 - 14.05**

CALCULATED C/C	CHECKED C/C
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STATION		SIDE	LENGTH (L) FT	AVERAGE WIDTH (W) FT	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=L*W) SF	CADD AREA SF	AREA FOR 4" EXTENSION SF	AREA FOR 6" EXTENSION SF	AREA FOR 20" EXTENSION SF	302 10.5" ASPHALT CONCRETE BASE, PG64-22, (449) CY		304 6" AGGREGATE BASE CY		407 NON-TRACKING TACK COAT (0.085 GAL/SY - 3 APPLICATION) GAL		442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG70- 22M CY		442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) CY		442 ANTI-SEGREGATION EQUIPMENT CY		CALCULATED C/C	CHECKED C/M	
FROM	TO											01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04			01/IMS/04
<b>EASTBOUND I.R. 70</b>																										
<b>FULL DEPTH LANES</b>																										
193+21.67	194+41.55	LT	119.88	24.00	0.9959	2865.32						55.71	37.14	31.84	21.22	31.52	21.01	7.96	5.31	9.29	6.19	17.25	11.50			
194+41.55	207+14.11	LT	1272.56	24.00		30541.44						593.86	395.91	339.35	226.23	335.96	223.97	84.84	56.56	98.98	65.98	183.82	122.54			
207+14.11	212+85.10	LT	570.99	24.00	1.0010	13717.46						266.73	177.82	152.42	101.61	150.89	100.59	38.10	25.40	44.45	29.64	82.55	55.04			
212+85.10	218+13.40	LT	528.30	24.00		12679.20						246.54	164.36	140.88	93.92	139.47	92.98	35.22	23.48	41.09	27.39	76.31	50.87			
193+21.67	194+41.55	RT	119.88	36.00	1.0062	4342.44						84.44	56.29	48.25	32.17	47.77	31.84	12.06	8.04	14.07	9.38	26.13	17.42			
194+41.55	207+14.11	RT	1272.56	36.00		45812.16						890.79	593.86	509.02	339.35	503.93	335.96	127.26	84.84	148.47	98.98	275.73	183.82			
207+14.11	208+60.00	RT	145.89	36.00	0.9985	5244.16						101.97	67.98	58.27	38.85	57.69	38.46	14.57	9.71	16.99	11.33	31.56	21.04			
208+60.00	209+60.00	RT	100.00	42.00	0.9983	4192.86						81.53	54.35	46.59	31.06	46.12	30.75	11.65	7.76	13.59	9.06	25.24	16.82			
209+60.00	211+82.39	RT	222.39	48.00	0.9980	10653.37						207.15	138.10	118.37	78.91	117.19	78.12	29.59	19.73	34.52	23.02	64.11	42.75			
211+82.39	212+85.10	RT	102.71	36.00	0.9985	3692.01						71.79	47.86	41.02	27.35	40.61	27.07	10.26	6.84	11.96	7.98	22.22	14.82			
212+85.10	215+13.12	RT	228.02	36.00		8208.72						159.61	106.41	91.21	60.81	90.30	60.20	22.80	15.20	26.60	17.73	49.40	32.93			
215+13.12	218+13.40	RT	300.28	12.00		3603.36						70.07	46.71	40.04	26.69	39.64	26.42	10.01	6.67	11.68	7.79	21.69	14.46			
<b>FULL DEPTH SHOULDER</b>																										
193+21.67	193+60.69	LT	39.02	13.28	0.9895	512.74						9.97	6.65	5.70	3.80	5.64	3.76	1.42	0.95	1.66	1.11					
193+60.69	194+19.70	LT	59.01	13.14	0.9895	767.25						14.92	9.95	8.53	5.68	8.44	5.63	2.13	1.42	2.49	1.66					
194+19.70	194+41.55	LT	21.85	13.55	0.9894	292.93						5.70	3.80	3.25	2.17	3.22	2.15	0.81	0.54	0.95	0.63					
194+41.55	194+60.00	LT	18.45	14.28		263.47						5.12	3.42	2.93	1.95	2.90	1.93	0.73	0.49	0.85	0.57					
194+60.00	194+71.20	LT	11.20	14.59		163.41						3.18	2.12	1.82	1.21	1.80	1.20	0.45	0.30	0.53	0.35					
194+71.20	195+11.20	LT	40.00	14.09		563.60						10.96	7.31	6.26	4.17	6.20	4.13	1.57	1.04	1.83	1.22					
195+11.20	195+21.20	LT	10.00	13.59		135.90						2.64	1.76	1.51	1.01	1.49	1.00	0.38	0.25	0.44	0.29					
195+21.20	195+61.20	LT	40.00	14.09		563.60						10.96	7.31	6.26	4.17	6.20	4.13	1.57	1.04	1.83	1.22					
195+61.20	196+70.00	LT	108.80	14.59		1587.39						30.87	20.58	17.64	11.76	17.46	11.64	4.41	2.94	5.14	3.43					
196+70.00	197+10.00	LT	40.00	14.09		563.60						10.96	7.31	6.26	4.17	6.20	4.13	1.57	1.04	1.83	1.22					
197+10.00	197+20.00	LT	10.00	13.59		135.90						2.64	1.76	1.51	1.01	1.49	1.00	0.38	0.25	0.44	0.29					
197+20.00	197+60.00	LT	40.00	14.09		563.60						10.96	7.31	6.26	4.17	6.20	4.13	1.57	1.04	1.83	1.22					
197+60.00	198+26.53	LT	66.53	14.59		970.67						18.87	12.58	10.79	7.19	10.68	7.12	2.70	1.80	3.15	2.10					
198+26.53	198+66.53	LT	40.00	13.84		553.60						10.76	7.18	6.15	4.10	6.09	4.06	1.54	1.03	1.79	1.20					
198+66.53	200+57.54	LT	191.01	13.09		2500.32						48.62	32.41	27.78	18.52	27.50	18.34	6.95	4.63	8.10	5.40					
200+57.54	200+97.54	LT	40.00	13.84		553.60						10.76	7.18	6.15	4.10	6.09	4.06	1.54	1.03	1.79	1.20					
200+97.54	203+75.20	LT	277.66	14.59		4051.06						78.77	52.51	45.01	30.01	44.56	29.71	11.25	7.50	13.13	8.75					
203+75.20	204+15.20	LT	40.00	13.84		553.60						10.76	7.18	6.15	4.10	6.09	4.06	1.54	1.03	1.79	1.20					
204+15.20	205+06.20	LT	91.00	13.09		1191.19						23.16	15.44	13.24	8.82	13.10	8.74	3.31	2.21	3.86	2.57					
205+06.20	205+46.20	LT	40.00	13.84		553.60						10.76	7.18	6.15	4.10	6.09	4.06	1.54	1.03	1.79	1.20					
205+46.20	205+56.20	LT	10.00	14.59		145.90						2.84	1.89	1.62	1.08	1.60	1.07	0.41	0.27	0.47	0.32					
205+56.20	205+96.20	LT	40.00	14.09		563.60						10.96	7.31	6.26	4.17	6.20	4.13	1.57	1.04	1.83	1.22					
205+96.20	206+06.20	LT	10.00	13.59		135.90						2.64	1.76	1.51	1.01	1.49	1.00	0.38	0.25	0.44	0.29					
206+06.20	206+46.20	LT	40.00	14.09		563.60						10.96	7.31	6.26	4.17	6.20	4.13	1.57	1.04	1.83	1.22					
206+46.20	207+14.11	LT	67.91	14.59		990.81						19.27	12.84	11.01	7.34	10.90	7.27	2.75	1.83	3.21	2.14					
207+14.11	212+85.10	LT	570.99	14.59	1.0026	8352.40						162.41	108.27	92.80	61.87	91.88	61.25	23.20	15.47	27.07	18.05					
212+85.10	218+13.40	LT	528.30	14.59		7707.90						149.88	99.92	85.64	57.10	84.79	56.52	21.41	14.27	24.98	16.65					
<b>TOTALS CARRIED TO PAVEMENT SUBSUMMARY</b>												3521	2348	2012	1342	1992	1328	503	336	587	392	877	585			

PAVEMENT CALCULATIONS

FRA - 70 - 14.05

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STATION	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=L*W)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 20" EXTENSION	302		304		407		442		442		442		CALCULATED C/C	CHECKED C/W																						
											10.5" ASPHALT CONCRETE BASE, PG64-22, (449)		6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.085 GAL/SY - 3 APPLICATION)		1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG70-22M		1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)		ANTI-SEGREGATION EQUIPMENT																									
FROM	TO	FT	FT			SF	SF	SF	SF	SF	CY	CY	CY	CY	GAL	GAL	CY	CY	CY	CY	CY	CY																								
<b>EASTBOUND I.R. 70</b>																																														
<b>FULL DEPTH SHOULDER CONT</b>																																														
193+21.67	194+41.55	RT	119.88	12.00	1.0145	1.0170	1459.42			203.20	32.33	21.55	18.47	12.32	18.29	12.19	4.05	2.70	5.39	3.59																										
194+41.55	196+60.00	RT	218.45	12.00			2621.40			364.08	58.05	38.70	33.17	22.11	32.84	21.89	7.28	4.85	9.68	6.45																										
196+60.00	197+10.00	RT	50.00	10.67			533.50	16.67	25.00	83.33	13.05	8.70	7.87	5.25	7.27	4.85	1.48	0.99	2.08	1.39																										
197+10.00	197+20.00	RT	10.00	9.33			93.30	3.33	5.00	16.67	2.35	1.57	1.43	0.95	1.31	0.87	0.26	0.17	0.37	0.25																										
197+20.00	197+70.00	RT	50.00	10.67			533.50	16.67	25.00	83.33	13.05	8.70	7.87	5.25	7.27	4.85	1.48	0.99	2.08	1.39																										
197+70.00	207+14.11	RT	944.11	12.00			11329.32			1573.52	250.89	167.26	143.36	95.58	141.93	94.62	31.47	20.98	41.81	27.88																										
207+14.11	208+60.00	RT	145.89	12.00	0.9966	0.9961	1744.73			242.20	38.63	25.76	22.08	14.72	21.86	14.57	4.85	3.23	6.44	4.29																										
208+60.00	209+60.00	RT	100.00	10.00	0.9962	0.9962	996.20			166.03	22.60	15.07	12.91	8.61	12.78	8.52	2.77	1.84	3.77	2.51																										
209+60.00	211+82.39	RT	222.39	8.00	0.9958	0.9964	1771.65	73.86	110.79	369.32	46.30	30.87	28.30	18.87	25.72	17.14	4.92	3.28	7.30	4.86																										
<b>WESTBOUND I.R. 70</b>																																														
<b>FULL DEPTH LANES</b>																																														
3193+00.00	3194+40.35	LT	140.35	36.00	0.9936		5020.26				97.62	65.08	55.78	37.19	55.22	36.82	13.95	9.30	16.27	10.85	30.22	20.15																								
3194+40.35	3207+12.90	LT	1272.55	36.00			45811.80				890.79	593.86	509.02	339.35	503.93	335.95	127.26	84.84	148.46	98.98	275.72	183.82																								
3207+12.90	3212+87.63	LT	574.73	36.00	1.0015		20721.32				402.91	268.61	230.24	153.49	227.93	151.96	57.56	38.37	67.15	44.77	124.71	83.14																								
3212+87.63	3218+15.93	LT	528.30	36.00			19018.80				369.81	246.54	211.32	140.88	209.21	139.47	52.83	35.22	61.64	41.09	114.47	76.31																								
3193+00.00	3194+40.35	RT	140.35	24.00	1.0042		3382.55				65.77	43.85	37.58	25.06	37.21	24.81	9.40	6.26	10.96	7.31	20.36	13.57																								
3194+40.35	3207+12.90	RT	1272.55	24.00			30541.20				593.86	395.90	339.35	226.23	335.95	223.97	84.84	56.56	98.98	65.98	183.82	122.54																								
3207+12.90	3212+87.63	RT	574.73	24.00	0.9990		13779.73				267.94	178.63	153.11	102.07	151.58	101.05	38.28	25.52	44.66	29.77	82.94	55.29																								
3212+87.63	3218+15.93	RT	528.30	24.00			12679.20				246.54	164.36	140.88	93.92	139.47	92.98	35.22	23.48	41.09	27.39	76.31	50.87																								
<b>FULL DEPTH SHOULDER</b>																																														
3193+00.00	3194+40.35	LT	140.35	12.00	0.9851	0.9830	1659.11	45.99	68.98	229.94	39.64	26.43	23.80	15.87	22.13	14.75	4.61	3.07	6.35	4.23																										
3194+40.35	3198+66.28	LT	425.93	12.00			5111.16	141.98	212.97	709.88	122.16	81.44	73.35	48.90	68.20	45.46	14.20	9.47	19.55	13.04																										
3198+66.28	3205+45.00	LT	678.72	12.00			8144.64			1131.20	180.36	120.24	103.06	68.71	102.03	68.02	22.62	15.08	30.06	20.04																										
3205+45.00	3205+95.00	LT	50.00	10.67			533.50	16.67	25.00	83.33	13.05	8.70	7.87	5.25	7.27	4.85	1.48	0.99	2.08	1.39																										
3205+95.00	3206+05.00	LT	10.00	9.33			93.30	3.33	5.00	16.67	2.35	1.57	1.43	0.95	1.31	0.87	0.26	0.17	0.37	0.25																										
3206+05.00	3206+55.00	LT	50.00	10.67			533.50	16.67	25.00	83.33	13.05	8.70	7.87	5.25	7.27	4.85	1.48	0.99	2.08	1.39																										
3206+55.00	3207+12.90	LT	57.90	12.00			694.80			96.50	15.39	10.26	8.79	5.86	8.70	5.80	1.93	1.29	2.56	1.71																										
3207+12.90	3212+87.63	LT	574.73	12.00	1.0034	1.0039	6920.21			961.62	153.26	102.17	87.58	58.38	86.70	57.80	19.22	12.82	25.54	17.03																										
3212+87.63	3213+87.43	LT	99.80	12.00			1197.60			166.33	26.52	17.68	15.15	10.10	15.00	10.00	3.33	2.22	4.42	2.95																										
3193+00.00	3193+22.29	RT	22.29	12.00	1.0106		270.32				5.26	3.50	3.00	2.00	2.97	1.98	0.75	0.50	0.88	0.58																										
3193+22.29	3193+61.71	RT	39.42	13.47	1.0109		536.78				10.44	6.96	5.96	3.98	5.90	3.94	1.49	0.99	1.74	1.16																										
3193+61.71	3194+19.10	RT	57.39	14.60	1.0111		847.19				16.47	10.98	9.41	6.28	9.32	6.21	2.35	1.57	2.75	1.83																										
3194+19.10	3194+40.35	RT	21.25	14.58	1.0111		313.26				6.09	4.06	3.48	2.32	3.45	2.30	0.87	0.58	1.02	0.68																										
3194+40.35	3194+58.80	RT	18.45	14.58			269.00				5.23	3.49	2.99	1.99	2.96	1.97	0.75	0.50	0.87	0.58																										
3194+58.80	3194+70.00	RT	11.20	14.59			163.41				3.18	2.12	1.82	1.21	1.80	1.20	0.45	0.30	0.53	0.35																										
3194+70.00	3195+10.00	RT	40.00	14.09			563.60				10.96	7.31	6.26	4.17	6.20	4.13	1.57	1.04	1.83	1.22																										
3195+10.00	3195+20.00	RT	10.00	13.59			135.90				2.64	1.76	1.51	1.01	1.49	1.00	0.38	0.25	0.44	0.29																										
3195+20.00	3195+60.00	RT	40.00	14.09			563.60				10.96	7.31	6.26	4.17	6.20	4.13	1.57	1.04	1.83	1.22																										
3195+60.00	3196+68.80	RT	108.80	14.59			1587.39				30.87	20.58	17.64	11.76	17.46	11.64	4.41	2.94	5.14	3.43																										
<b>TOTALS CARRIED TO PAVEMENT SUBSUMMARY</b>											4081	2721	2340	1561	2307	1538	562	375	679	453	909	606																								

PAVEMENT CALCULATIONS

FRA - 70 - 14.05



STATION	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=L*W)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 20" EXTENSION	302		304		407		407		442		442		511		872		CALCULATED C/C	CHECKED C/W		
											10.5" ASPHALT CONCRETE BASE, PG64-22, (449)		6" AGGREGATE BASE		NON-TRACKING TACK COAT (0.065 GAL/SY - 3 APPLICATION)		TACK COAT, 702.13 (0.070 GAL/SY - 1 APPLICATION)		1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG70-22M		1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)		9" CLASS QC1 CONCRETE, SUBSTRUCTURE, AS PER PLAN		VOID REDUCING ASPHALT MEMBRANE (VRAM)					
FROM	TO	FT	FT			SF	SF	SF	SF	SF		CY		CY			GAL		GAL			CY		CY			FT			
<b>RAMP N1</b>																														
<b>FULL DEPTH LANES</b>																														
860+68.50	862+68.47	LT	199.97	14.00	1.0018	2804.62						01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04		
862+68.47	863+43.25	LT	74.78	16.00	1.0021	1198.99						54.53	36.36	31.16	20.77	30.85	20.57					7.79	5.19	9.09	6.06					
863+43.25	865+43.25	LT	200.00	16.00		3200.00						23.31	15.54	13.32	8.88	13.19	8.79					3.33	2.22	3.89	2.59					
865+43.25	866+99.12	LT	155.87	16.00	0.9993	2492.17						62.22	41.48	35.56	23.70	35.20	23.47					8.89	5.93	10.37	6.91					
866+99.12												48.46	32.31	27.69	18.46	27.41	18.28					6.92	4.62	8.08	5.38					
<b>FULL DEPTH SHOULDER</b>																														
860+68.50	863+43.25	RT	274.75	8.00	0.9990	2195.80		91.39	137.09	456.96		57.36	38.24	35.06	23.37	31.86	21.24					6.10	4.07	9.04	6.03					
863+43.25	863+65.71	RT	22.46	8.00		179.68		7.49	11.23	37.43		4.69	3.13	2.87	1.91	2.61	1.74					0.50	0.33	0.74	0.49					
863+65.71	865+43.25	RT	177.54	8.00		1420.32				295.90		33.37	22.25	19.07	12.71	18.88	12.59					3.95	2.63	5.56	3.71					
865+43.25	866+99.12	RT	155.87	8.00	1.0003	1247.33				259.97		29.31	19.54	16.75	11.17	16.58	11.05					3.46	2.31	4.88	3.26					
<b>RAMP N4</b>																														
<b>FULL DEPTH LANES</b>																														
770+40.52	773+40.85	RT	300.33	24.00		7207.92						140.15	93.44	80.09	53.39	79.29	52.86					20.02	13.35	23.36	15.57					
<b>RAMP Q4</b>																														
<b>FULL DEPTH LANES</b>																														
862+71.35	866+99.12	RT	427.77	4.28		1830.86						35.60	23.73	20.34	13.56	20.14	13.43					5.09	3.39	5.93	3.96					
<b>FULL DEPTH SHOULDER</b>																														
862+71.35	864+71.55	RT	200.20	10.00		2002.00				333.67		45.42	30.28	25.95	17.30	25.69	17.13					5.56	3.71	7.57	5.05					
864+71.55	866+99.12	RT	227.57	8.00		1820.56				379.28		42.77	28.52	24.44	16.30	24.20	16.13					5.06	3.37	7.13	4.75					
<b>GORE AREAS</b>																														
<b>RAMP N1/I-70 EB &amp; RAMP N4</b>																														
862+68.47	866+99.12	LT	430.65				881.12					17.13	11.42	9.79	6.53	9.69	6.46					2.45	1.63	2.86	1.90					
<b>RAMP N4/I-70 EB</b>																														
770+40.52	773+40.85	LT	300.33				523.66					10.18	6.79	5.82	3.88	5.76	3.84					1.45	0.97	1.70	1.13					
<b>CONCRETE SUBSTRUCTURE</b>																														
<b>WESTBOUND I.R. 70</b>																														
3194+54.49	3194+84.49	LT	30.00				903.52											4.22	2.81					15.06	10.04					
<b>VOID REDUCING ASPHALT MEMBRANE (VRAM)</b>																														
<b>EASTBOUND I.R. 70</b>																														
<b>WESTBOUND I.R. 70</b>																														
<b>RAMP N1</b>																														
<b>RAMP N4</b>																														
<b>RAMP Q4</b>																														
<b>TOTALS CARRIED TO PAVEMENT SUBSUMMARY</b>												605	404		348	232	342	228	5	3	81	54	101	67	16	11	13649	9100		

PAVEMENT CALCULATIONS

FRA - 70 - 14.05

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STATION		SIDE	LENGTH (L) FT	AVERAGE WIDTH (W) FT	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=L*W) SF	CADD AREA SF	622		622		622		622		622		626		CALCULATED C/C	CHECKED C/W	
FROM	TO								CONCRETE BARRIER, SINGLE SLOPE, TYPE C1 FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D FT	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1 EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY EACH									
<b>BARRIER</b>																							
<b>EASTBOUND I.R. 70</b>																							
194+60.00	207+14.11	LT	1254.11					01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04				
207+14.11	212+85.10	LT	570.99	1.0033				752.47	501.64			5	3	4	3			29	19				
212+85.10	218+13.40	LT	528.30					343.72	229.15			1	1										
								316.98	211.32			2	1	1	0								
193+21.67	194+41.55	RT	119.88	1.0165						73.11	48.74					1	0						
194+41.55	207+14.11	RT	1272.56							763.54	509.02					5	3						
207+14.11	208+60.00	RT	145.89	0.9961						87.19	58.13							11	7				
208+60.00	209+60.00	RT	100.00	0.9958						59.75	39.83												
209+60.00	211+82.39	RT	222.39	0.9954						132.82	88.55					1	1						
<b>WESTBOUND I.R. 70</b>																							
3193+00.00	3194+40.35	RT	140.35	0.9830						82.78	55.19					1	0						
3194+40.35	3207+12.90	RT	1272.55							763.53	509.02					6	4						
3207+12.90	3212+87.63	RT	574.73	1.0039						346.18	230.79					2	2		16	10			
3212+87.63	3218+15.93	RT	528.30							316.98	211.32					2	1						
<b>RAMP N1</b>																							
860+68.50	863+43.25	RT	274.75	0.9979						164.50	109.67					1	1						
863+43.25	865+43.25	RT	200.00							120.00	80.00					1	1		4	3			
865+43.25	866+99.12	RT	155.87	1.0007						93.59	62.39					1	1						
<b>DEDUCTIONS</b>																							
OVERHEAD SIGN FOUNDATIONS			10.00					-18.00	-12.00	-12.00	-8.00												
MEDIAN INLETS			20.00					-60.00	-40.00	-144.00	-96.00												
LIGHT POLE FOUNDATIONS			8.00					-58.00	-38.00	-14.00	-10.00												
LIGHT POLE FOUNDATIONS, AS PER PLAN			VARIOUS					-12.73	-8.48														
END ANCHORAGES			15.00					-117.00	-78.00	-315.00	-210.00												
END ANCHORAGES, AS PER PLAN			VARIOUS					-79.05	-52.70														
<b>TOTALS CARRIED TO PAVEMENT SUBSUMMARY</b>								1069	713	2519	1679	8	5	5	3	21	14	60	39				

PAVEMENT CALCULATIONS

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STATION		SIDE	LENGTH (L) FT	AVERAGE WIDTH (W) FT	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=L*W) SF	CADD AREA SF	AREA FOR 18" EXTENSION SF	304	305	305	407	407	441	441	452	452	609	609	609	CALCULATED C/C	CHECKED DW																					
FROM	TO									6" AGGREGATE BASE CY	8" CONCRETE BASE, CLASS QC 1P SY	9" CONCRETE BASE, CLASS QC 1P SY	NON-TRACKING TACK COAT (0.055 GAL/SY - 1 APPLICATION) GAL	TACK COAT 702.13 (0.070 GAL/SY - 1 APPLICATION) GAL	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22 CY	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) CY	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN SY	12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P SY	CURB, MISC.: COLUMBUS 18" GRANITE CURB "B" FT	CURB, MISC.: COLUMBUS 18" GRANITE CURB "A" FT	CURB, MISC.: COLUMBUS 18" SANDSTONE CURB FT																							
<b>FULTON ST</b>																						01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04																			
<b>FULL DEPTH</b>																																												
24+71.88	24+79.88	LT	8.00	9.00		72.00		12.00		1.56		8.00	0.44		0.56		0.28							8.00																				
24+79.88	26+00.00	LT	120.12	13.00		1561.56		180.18		32.25		173.51	9.54		12.15		6.02							120.12																				
26+00.00	26+39.82	LT	39.82	31.00		1234.42		59.73		23.97		137.16	7.54		9.60		4.76							39.82																				
26+39.82	26+63.04	LT	23.22	31.00		719.82		34.83		13.98		79.98	4.40		5.60		2.78							24.83																				
26+63.04	26+87.87	LT	24.83	31.00		769.73		37.24		14.94		85.53	4.70		5.99		2.97																											
26+87.87	27+13.48	LT	25.61	31.00		793.91		38.42		15.41		88.21	4.85		6.17		3.06																											
27+13.48	27+90.60	LT	77.12	31.00		2390.72		115.68		46.41		265.64	14.61		18.59		9.22							77.12																				
27+90.60	28+17.25	LT	26.65	31.00		826.15		39.98		16.04		91.79	5.05		6.43		3.19																											
28+17.25	28+95.95	LT	78.70	31.00		2439.70		118.05		47.37		271.08	14.91		18.98		9.41							78.70																				
28+95.95	29+24.54	LT	28.59	31.00		886.29		42.89		17.21		98.48	5.42		6.89		3.42																											
29+24.54	30+57.00	LT	132.46	31.00		4106.26		198.69		79.72		456.25	25.09		31.94		15.84							132.46																				
30+57.00	30+65.00	LT	8.00	27.00		216.00		12.00		4.22		216.00	1.32		1.68		0.83							8.00																				
30+65.00	30+90.12	LT	25.12	23.00		577.76		37.68		11.40		64.20	3.53		4.49		2.23							25.12																				
30+90.12	30+95.12	LT	1.00	23.00		23.00		1.50		0.45														1.00																				
31+14.37	31+90.34	LT	75.97				2873.74	44.19		54.04														319.30																				
32+10.34	32+11.34	LT	1.00	23.01		23.01		1.50		0.45														2.56																				
32+15.34	32+17.34	LT	2.00	26.00		52.00				0.96		5.78	0.32		0.40		0.20							1.00																				
35+73.34	35+83.12	LT	9.78	23.00		224.94				4.17		24.99	1.37		1.75		0.87							2.00																				
35+87.12	35+88.12	LT	1.00	23.00		23.00				0.43														2.56																				
36+08.12	36+79.39	LT	71.27				2271.36			42.06														252.37																				
36+99.39	37+00.39	LT	1.00	23.00		23.00				0.43														2.56																				
37+04.39	37+10.35	LT	5.96	23.00		137.08				2.54		15.23	0.84		1.07		0.53							0.74																				
26+00.00	26+08.00	RT	8.00	21.00		168.00		12.00		3.33		18.67	1.03		1.31		0.65							8.00																				
26+08.00	30+57.00	RT	449.00	25.00		11225.00		673.50		220.34		1247.22	68.60		87.31		43.31							449.00																				
30+57.00	30+65.00	RT	8.00	21.00		168.00		12.00		3.33		18.67	1.03		1.31		0.65							8.00																				
30+65.00	30+86.60	RT	21.60	17.00		367.20		32.40		7.40		40.80	2.24		2.86		1.42							21.60																				
30+86.60	30+90.12	RT	3.52				60.09	5.30		1.21		6.68	0.37		0.47		0.23							3.52																				
30+90.12	30+95.12	RT	1.00				17.81	1.53		0.36														1.02																				
31+14.37	31+90.34	RT	75.97				1686.37	52.83		32.21														187.37																				
32+10.34	32+11.34	RT	1.00	17.00		17.00		0.00		0.31														1.89																				
32+15.34	32+17.34	RT	2.00	17.00		34.00		3.00		0.69		3.78	0.21		0.26		0.13							2.00																				
32+17.34	32+19.34	RT	2.00	0.00		0.00		3.00		0.06														2.00																				
32+19.34	32+27.34	RT	8.00	4.00		32.00		12.00		0.81	3.56		0.20		0.25		0.12							8.00																				
32+27.34	35+48.14	RT	320.80	8.00		2566.40		481.20		56.44	285.16		15.68		19.96		9.90							320.80																				
35+48.14	35+56.14	RT	8.00	4.00		32.00		12.00		0.81	3.56		0.20		0.25		0.12							8.00																				
35+56.14	35+73.34	RT	17.20	0.00		0.00		25.80		0.48														17.20																				
35+73.34	35+83.12	RT	9.78	17.00		166.26		14.67		3.35	18.47		1.02		1.29		0.64							9.78																				
35+87.12	35+88.12	RT	1.00	17.00		17.00		1.50		0.34														1.89																				
36+08.12	36+79.39	RT	71.27				707.80	0.00		13.11														78.64																				
36+99.39	37+00.39	RT	1.00	17.00		17.00		1.50		0.34														1.89																				
37+04.39	37+06.39	RT	2.00	17.00		34.00		3.00		0.69		3.78	0.21		0.26		0.13							2.00																				
37+06.39	37+10.35	RT	3.96	5.00		19.80		5.94		0.48		2.20	0.12		0.15		0.08																											
37+10.35	37+18.00	RT	11.61	12.04		139.78		17.42		2.91														11.61																				
<b>TOTALS CARRIED TO PAVEMENT SUBSUMMARY</b>										<b>780</b>	<b>293</b>	<b>3251</b>	<b>195</b>	<b>248</b>	<b>123</b>	<b>173</b>	<b>5</b>	<b>856</b>	<b>392</b>	<b>1071</b>																								

PAVEMENT CALCULATIONS

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STATION		SIDE	LENGTH (L) FT	AVERAGE WIDTH (W) FT	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=L*W) SF	CADD AREA SF	AREA FOR 18" EXTENSION SF	304	305	407	407	441	441	452	452	608	609	609	609	SPECIAL	CALCULATED C/C	CHECKED D/W																								
FROM	TO									6" AGGREGATE BASE CY	9" CONCRETE BASE, CLASS QC 1P SY	NON-TRACKING TACK COAT (0.065 GAL/SY - 1 APPLICATION) GAL	TACK COAT 702.13 (0.070 GAL/SY - 1 APPLICATION) GAL	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22 CY	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) CY	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN SY	12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P SY	WALKWAY, MISC.: BRICK PAVEMENT CROSSWALK SF	CURB, MISC.: COLUMBUS 18" GRANITE CURB "B" FT	CURB, MISC.: COLUMBUS 18" GRANITE CURB "A" FT	CURB, MISC.: COLUMBUS 18" CONCRETE CURB FT	PRESSURE RELIEF JOINT, TYPE A FT																										
<b>FULTON ST</b>																							01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04																					
<b>FULL DEPTH</b>																																																
37+18.00	37+22.45	RT	4.45	9.87		43.92				0.81						1.36																																
37+22.45	37+24.08	RT	1.63	4.94		8.05				0.15						0.25																																
38+25.35	38+37.35	RT	12.00	12.03		144.36		18.00		3.01						4.46			12.00																													
<b>THIRD STREET</b>																							0.00																									
<b>FULL DEPTH</b>																																																
1150+50.50	1150+52.91	LT	2.41	18.00		43.38		3.62		0.87	4.82	0.27	0.34	0.17	0.23										2.41																							
1150+52.91	1150+59.32	LT	6.41	21.21		135.96		9.62		2.70	15.11	0.83	1.06	0.52	0.73										6.41																							
1153+90.50	1153+91.50	LT	1.00	19.69		19.69		1.50		0.39							2.19			1.00																												
1153+95.50	1154+00.00	LT	4.50	19.71		88.70		6.75		1.77	9.86	0.54	0.69	0.34	0.48					4.50																												
1150+50.50	1150+59.52	RT	9.02	18.00		162.36		13.53		3.26	18.04	0.99	1.26	0.63	0.88										9.02																							
1153+90.50	1153+91.50	RT	1.00	33.08		33.08		1.50		0.64							3.68			1.00																												
1153+95.50	1154+00.00	RT	4.50	33.15		149.18		6.75		2.89	16.58	0.91	1.16	0.58	0.81					4.50																												
<b>FOURTH STREET</b>																																																
<b>FULL DEPTH</b>																																																
1150+45.00	1150+52.00	LT	7.00	21.50	0.9841	0.9681	148.11		10.33	2.93	16.46	0.91	1.15	0.57	0.80										6.78																							
1150+52.00	1151+66.14	LT	114.14	25.00	0.9815	0.9629	2800.71		168.04	54.98	311.19	17.12	21.78	10.81	15.13										109.91																							
1151+66.14	1151+72.08	LT	5.94	25.00			148.50		8.91	2.92	16.50	0.91	1.16	0.57	0.80										5.94																							
1150+45.00	1150+52.00	RT	7.00	26.50	1.0197	0.9607	189.15		10.71	3.70	21.02	1.16	1.47	0.73	1.02										6.72																							
1150+52.00	1151+66.14	RT	114.14	30.00	1.0223	0.9555	3500.56		175.03	68.07	388.95	21.39	27.23	13.51	18.91										109.06																							
1151+66.14	1151+73.60	RT	7.46	30.00			223.80		11.19	4.35	24.87	1.37	1.74	0.86	1.21										7.46																							
<b>CROSSWALK TREATMENT</b>																																																
<b>FULTON ST</b>																																																
30+90.12	30+94.12	LT/RT	4.00				161.60	6.00		0.11															8.04	40.43																						
30+95.12	31+14.37	LT/RT	19.25				868.52	28.88		0.53								868.52							38.29																							
31+90.34	32+10.34	LT/RT	20.00				846.85	30.00		0.56								846.85							41.52																							
32+11.34	32+15.34	LT/RT	4.00				162.00	6.00		0.11															8.00	41.00																						
35+83.12	35+87.12	LT/RT	4.00				160.00	6.00		0.11															4.00	40.00																						
35+88.12	36+08.12	LT/RT	20.00				818.60	30.00		0.56								818.60							20.17																							
36+79.39	36+99.39	LT/RT	20.00				823.67	30.00		0.56								823.67							20.86																							
37+00.39	37+04.39	LT/RT	4.00				160.00	6.00		0.11															4.00	40.00																						
<b>THIRD STREET</b>																																																
1153+69.14	1153+90.50	LT/RT	21.36				1158.45	32.04		0.59															43.55																							
1153+91.50	1153+95.50	LT/RT	4.00				211.19	6.00		0.11															8.00	52.80																						
<b>TOTALS CARRIED TO PAVEMENT SUBSUMMARY</b>										157	844	47	60	30	41	7	6	3358	70	151	264	215																										

PAVEMENT CALCULATIONS

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STATION		SIDE	LENGTH (L) FT	AVERAGE WIDTH (W) FT	CURVE CORRECTION RATIO	CURB CURVE CORRECTION RATIO	SURFACE AREA (A=L*W) SF	CADD AREA SF	AREA FOR 18" EXTENSION SF	304		305		407		407		441		441		CALCULATED C/C	CHECKED D/W	
FROM	TO									6" AGGREGATE BASE CY	6" AGGREGATE BASE CY	9" CONCRETE BASE, CLASS QC 1P SY	9" CONCRETE BASE, CLASS QC 1P SY	NON-TRACKING TACK COAT (0.065 GAL/SY - 1 APPLICATION) GAL	NON-TRACKING TACK COAT (0.065 GAL/SY - 1 APPLICATION) GAL	TACK COAT, 702.13 (0.070 GAL/SY - 1 APPLICATION) GAL	TACK COAT, 702.13 (0.070 GAL/SY - 1 APPLICATION) GAL	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22 CY	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22 CY	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) CY	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) CY			
<b>APPROACH SLABS</b>										01/IMS/04	06/MPO/04	01/IMS/04	06/MPO/04	01/IMS/04	06/MPO/04	01/IMS/04	06/MPO/04	01/IMS/04	06/MPO/04	01/IMS/04	06/MPO/04			
<b>THIRD STREET</b>																								
1150+59.44	1150+91.44	LT	32.00	35.50		1136.00		48.00		21.93														
1152+81.56	1153+08.56	LT	27.00				622.55	32.00		12.12														
1150+59.44	1150+91.44	RT	32.00	28.50		912.00		48.00		17.78														
1152+81.56	1153+08.56	RT	27.00				418.54	32.09		8.35														
<b>FOURTH STREET</b>																								
1151+72.77	1152+04.77	LT	32.00	35.50		1136.00		48.00		21.93														
1153+94.90	1154+21.90	LT	27.00				632.97	30.30		12.28														
1151+72.77	1152+04.77	RT	32.00	40.50		1296.00		48.00		24.89														
1153+94.90	1154+21.90	RT	27.00				896.90	22.98		17.03														
<b>2' BIKE LANE MORPC ADJUSTMENT</b>																								
<b>FULTON ST</b>																								
24+71.88	30+90.12	LT	618.24	2.00		1236.48				-22.90	22.90	-137.39	137.39	-7.56	7.56	-9.62	9.62	-4.77	4.77	-6.68	6.68			
32+15.34	32+17.34	LT	2.00	2.00		4.00				-0.07	0.07	-0.44	0.44	-0.02	0.02	-0.03	0.03	-0.02	0.02	-0.02	0.02			
37+04.39	37+10.35	LT	5.96	2.00		11.92				-0.22	0.22	-1.32	1.32	-0.07	0.07	-0.09	0.09	-0.05	0.05	-0.06	0.06			
<b>THIRD STREET</b>																								
1150+50.00	1150+59.38	LT	9.38	2.00		18.76				-0.35	0.35	-2.08	2.08	-0.11	0.11	-0.15	0.15	-0.07	0.07	-0.10	0.10			
1153+95.50	1154+00.00	LT	4.50	2.00		9.00				-0.17	0.17	-1.00	1.00	-0.06	0.06	-0.07	0.07	-0.03	0.03	-0.05	0.05			
<b>FOURTH STREET</b>																								
1150+45.00	1151+66.14	LT	121.14	2.00	0.9985	241.92				-4.48	4.48	-26.88	26.88	-1.48	1.48	-1.88	1.88	-0.93	0.93	-1.31	1.31			
1151+66.14	1151+72.39	LT	6.25	2.00		12.50				-0.23	0.23	-1.39	1.39	-0.08	0.08	-0.10	0.10	-0.05	0.05	-0.07	0.07			
<b>TOTALS CARRIED TO PAVEMENT SUBSUMMARY</b>										108	29	-171	171	-10	10	-12	12	-6	6	-9	9			

PAVEMENT CALCULATIONS

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10  
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