Morton & Morton
Design Services, PLLC

Count Number: 10-08013
County: Dare
City: Kill Devil Hills
Division: 01

Morton & Morton
Design Sevices, PLLC
Traffic Engineering

12-Hour Count Volume: 42,403 vehicles

Intersection: US 158 (South Croatan Highway) at SR 1217 (Colington Road)/Ocean Bay Boulevard

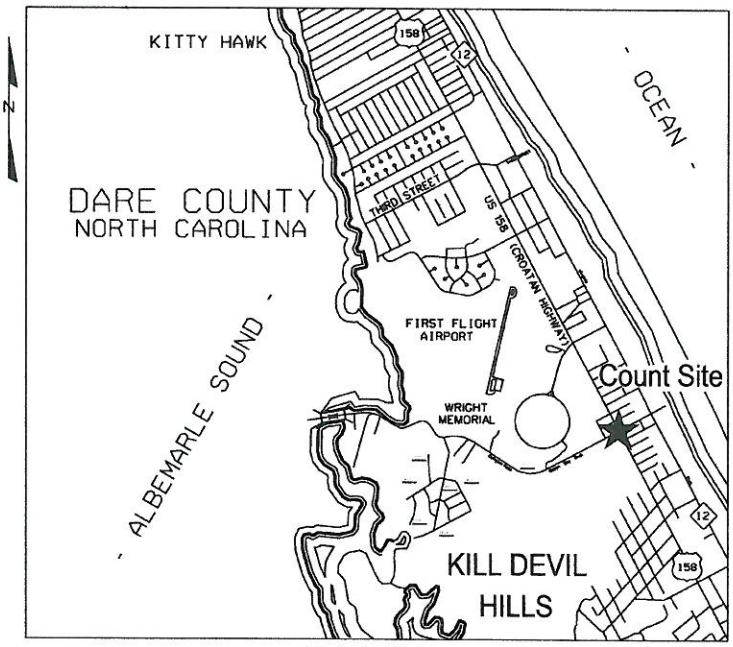
Count Date	Count Time	Weather Conditions
Friday, July 30, 2010	6:00 A.M. to 7:00 P.M.	Morning-Overcast, Afternoon-Mostly Sunny Evening-Sunny

Comments

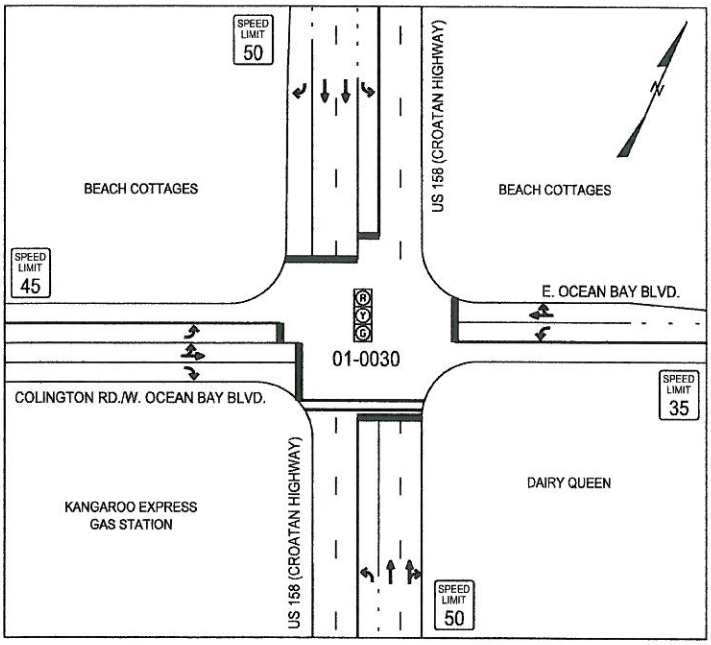
1 School was not in session
2 Pedestrian movements are tabulated under the approach that they cross
3 Counted by: Linsey Morton
Jeanell Morton
4 Data Processor: Donald Morton
5 Break Times: 2:30 to 3:00 P.M.
6 Interpolated values for these intervals
7 Scheduled Break: 9:00 to 10:00 A.M.
8 Signalized intersection left turn treatments

Southbound	Protected/Permitted
Westbound	Protected
Northbound	Protected/Permitted
Eastbound	Protected

9 Traffic Signal Inventory No.: 01-0030



Vicinity Map



Intersection Sketch

9121 Anson Way, Suite 101 Raleigh, NC 27615 Phone 919-882-6066 Fax 919-256-7609

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Count Number 10-08013
County Dare
City Kill Devil Hills
Division 01

Intersection: US 158 (South Croatan Hwy) at SR 1217 (Colington Road)/Ocean Bay Boulevard

US 158 Northbound – Looking North toward SR 1217 (Colington Rd)/Ocean Bay Blvd.

US 158 Northbound – Looking South away from SR 1217 (Colington Rd)/Ocean Bay Blvd.

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Intersection: US 158 (South Croatan Hwy) at SR 1217 (Colington Road)/Ocean Bay Boulevard

US 158 Southbound – Looking South toward SR 1217 (Colington Rd)/Ocean Bay Blvd.

US 158 Southbound – Looking North away from SR 1217 (Colington Rd)/Ocean Bay Blvd.

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Intersection: US 158 (South Croatan Hwy) at SR 1217 (Colington Road)/Ocean Bay Boulevard

SR 1217 (Colington Road) Eastbound – Looking East toward US 158 (Croatan Hwy)

SR 1217 (Colington Road) Eastbound – Looking West away from US 158 (Croatan Hwy)

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Count Number 10-08013
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City Kill Devil Hills
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Intersection: US 158 (South Croatan Hwy) at SR 1217 (Colington Road)/Ocean Bay Boulevard

Ocean Bay Boulevard Westbound – Looking West toward US 158 (Croatan Hwy)

Ocean Bay Boulevard Westbound – Looking East away from US 158 (Croatan Hwy)

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919-882-6066

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File Name : 10-08013
Site Code : 01008013
Start Date : 7/30/2010
Page No : 1

Groups Printed- All Traffic

	US 158 (North Croatan Hwy) Southbound				Ocean Bay Blvd. Westbound				US 158 (South Croatan HWY) Northbound				Colington Road Eastbound						
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	73	5	0	4	1	1	0	4	41	0	7	12	11	14	0	7	166	173
06:15 AM	2	81	6	0	2	2	1	0	4	59	2	1	20	5	19	0	1	203	204
06:30 AM	0	114	11	0	5	3	1	0	6	83	2	2	40	2	29	0	2	296	298
06:45 AM	4	119	26	2	5	5	1	0	10	114	2	7	41	10	30	0	9	367	376
Total	6	387	48	2	16	11	4	0	24	297	6	17	113	28	92	0	19	1032	1051
07:00 AM	4	130	22	0	4	2	2	0	9	113	4	2	52	10	36	0	2	388	390
07:15 AM	1	167	17	0	5	6	3	0	14	152	4	2	46	8	42	0	2	465	467
07:30 AM	6	169	34	0	4	4	2	0	14	159	0	2	55	20	63	0	2	530	532
07:45 AM	8	255	47	0	8	12	9	0	12	157	2	7	68	13	72	0	7	663	670
Total	19	721	120	0	21	24	16	0	49	581	10	13	221	51	213	0	13	2046	2059
08:00 AM	5	212	27	0	12	4	5	0	16	166	0	7	75	14	48	0	7	584	591
08:15 AM	3	297	29	1	9	9	8	0	15	230	4	3	60	14	74	0	4	752	756
08:30 AM	4	237	40	1	13	14	9	0	11	222	5	3	81	22	50	0	4	708	712
08:45 AM	4	307	39	0	12	10	6	0	26	222	2	5	70	15	70	0	5	783	788
Total	16	1053	135	2	46	37	28	0	68	840	11	18	286	65	242	0	20	2827	2847
*** BREAK ***																			
10:00 AM	5	328	42	0	36	11	7	0	17	300	5	2	57	21	67	0	2	896	898
10:15 AM	12	358	45	0	18	14	12	0	25	296	5	9	74	17	50	0	9	926	935
10:30 AM	15	368	36	0	19	14	6	0	28	331	6	6	72	23	57	0	6	975	981
10:45 AM	8	352	32	0	26	17	17	0	25	294	2	2	88	28	51	0	2	940	942
Total	40	1406	155	0	99	56	42	0	95	1221	18	19	291	89	225	0	19	3737	3756
11:00 AM	5	366	51	0	27	13	8	0	37	378	7	3	38	27	50	0	3	1007	1010
11:15 AM	6	373	58	0	25	17	13	0	23	308	9	1	83	31	66	0	1	1012	1013
11:30 AM	16	337	32	0	21	16	9	1	18	317	9	4	66	26	57	0	5	924	929
11:45 AM	10	379	56	0	22	15	10	0	23	347	13	4	59	22	50	0	4	1006	1010
Total	37	1455	197	0	95	61	40	1	101	1350	38	12	246	106	223	0	13	3949	3962
12:00 PM	6	326	69	0	15	12	18	0	37	338	14	6	70	23	46	0	6	974	980
12:15 PM	12	361	56	0	19	22	12	0	31	338	12	1	60	23	46	0	1	992	993
12:30 PM	10	281	66	0	23	23	9	0	46	341	6	6	68	22	55	0	6	950	956
12:45 PM	5	375	50	1	24	25	8	0	33	393	8	0	67	22	52	0	1	1062	1063
Total	33	1343	241	1	81	82	47	0	147	1410	40	13	265	90	199	0	14	3978	3992
01:00 PM	11	295	65	0	29	25	16	0	32	335	8	2	78	27	57	0	2	978	980
01:15 PM	6	370	65	0	17	29	18	0	36	376	6	2	40	28	42	1	3	1033	1036
01:30 PM	9	339	59	0	22	24	10	0	31	310	5	2	67	27	47	0	2	950	952
01:45 PM	10	343	32	0	19	16	13	3	29	367	4	3	80	27	28	0	6	968	974
Total	36	1347	221	0	87	94	57	3	128	1388	23	9	265	109	174	1	13	3929	3942
02:00 PM	11	395	81	0	18	24	9	0	30	389	12	8	60	17	37	0	8	1083	1091
02:15 PM	16	348	55	0	24	28	18	0	27	343	8	0	67	25	52	1	1	1011	1012
02:30 PM	13	341	64	0	23	27	16	0	31	358	9	0	65	23	48	0	0	1018	1018
02:45 PM	11	333	74	0	22	27	16	0	34	372	9	1	64	20	44	0	1	1026	1027
Total	51	1417	274	0	87	106	59	0	122	1462	38	9	256	85	181	1	10	4138	4148

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Groups Printed- All Traffic

	US 158 (North Croatan Hwy) Southbound				Ocean Bay Blvd. Westbound				US 158 (South Croatan HWY) Northbound				Colington Road Eastbound						
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
03:00 PM	8	326	83	0	21	26	14	0	38	387	10	1	62	18	40	0	1	1033	1034
03:15 PM	8	376	64	0	33	29	8	0	39	372	13	3	53	17	48	0	3	1060	1063
03:30 PM	16	383	61	0	9	23	9	0	28	329	13	6	66	17	50	0	6	1004	1010
03:45 PM	18	355	62	0	26	30	5	0	38	342	13	4	66	18	56	0	4	1029	1033
Total	50	1440	270	0	89	108	36	0	143	1430	49	14	247	70	194	0	14	4126	4140
04:00 PM	11	375	63	0	27	35	11	0	32	341	13	2	76	14	43	0	2	1041	1043
04:15 PM	11	338	59	0	30	30	6	0	49	336	15	6	98	21	31	1	7	1024	1031
04:30 PM	10	385	69	0	20	41	15	4	37	333	7	5	57	17	38	0	9	1029	1038
04:45 PM	20	392	70	0	21	31	22	0	37	405	11	0	65	8	59	0	0	1141	1141
Total	52	1490	261	0	98	137	54	4	155	1415	46	13	296	60	171	1	18	4235	4253
05:00 PM	15	371	71	0	20	28	14	0	36	404	12	0	73	25	35	0	0	1104	1104
05:15 PM	5	355	88	1	30	37	17	1	42	352	6	3	62	12	38	1	6	1044	1050
05:30 PM	13	385	81	0	30	26	15	0	42	434	8	0	45	9	41	0	0	1129	1129
05:45 PM	10	346	83	0	35	28	8	0	41	361	14	2	59	8	38	0	2	1031	1033
Total	43	1457	323	1	115	119	54	1	161	1551	40	5	239	54	152	1	8	4308	4316
06:00 PM	9	399	75	0	41	26	15	0	41	339	11	6	37	8	33	1	7	1034	1041
06:15 PM	9	388	72	0	24	24	5	0	44	376	14	0	46	13	38	0	0	1053	1053
06:30 PM	7	370	70	0	30	16	17	0	53	293	23	0	54	19	53	0	0	1005	1005
06:45 PM	8	391	63	0	24	22	15	0	25	345	15	2	45	12	41	1	3	1006	1009
Total	33	1548	280	0	119	88	52	0	163	1353	63	8	182	52	165	2	10	4098	4108
Grand Total	416	15064	2525	6	953	923	489	9	1356	14298	382	150	2907	859	2231	6	171	42403	42574
Apprch %	2.3	83.7	14		40.3	39	20.7		8.5	89.2	2.4		48.5	14.3	37.2				
Total %	1	35.5	6		2.2	2.2	1.2		3.2	33.7	0.9		6.9	2	5.3		0.4	99.6	

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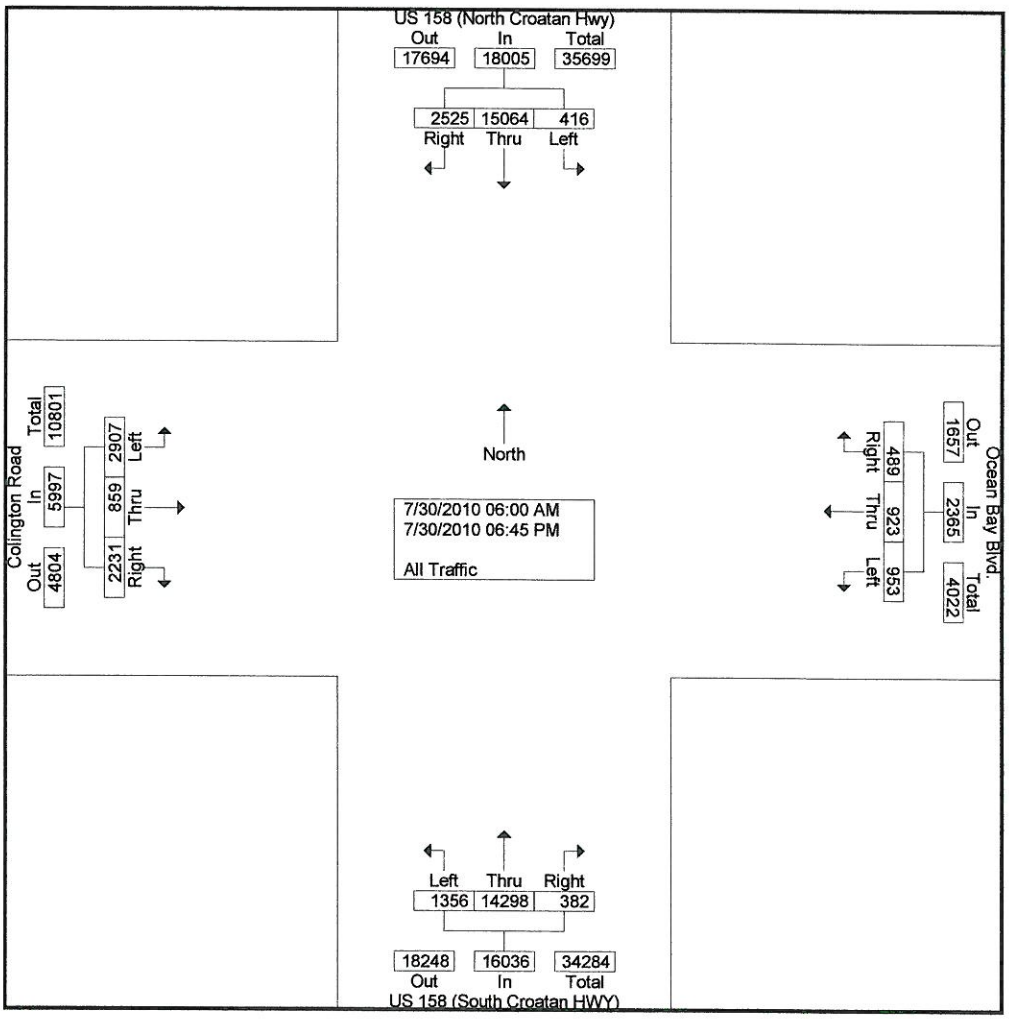
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total



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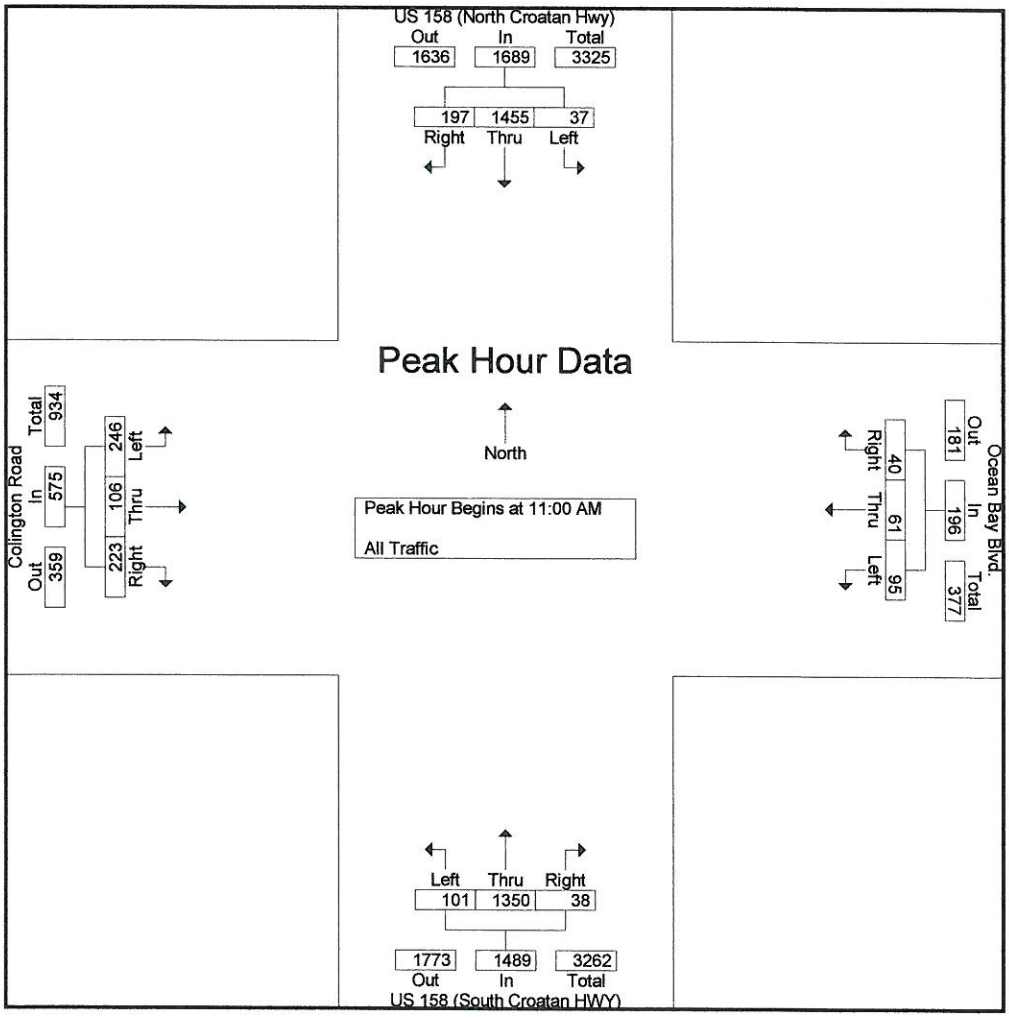
	US 158 (North Croatan Hwy) Southbound				Ocean Bay Blvd. Westbound				US 158 (South Croatan HWY) Northbound				Colington Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 11:00 AM																	
11:00 AM	5	366	51	422	27	13	8	48	37	378	7	422	38	27	50	115	1007
11:15 AM	6	373	58	437	25	17	13	55	23	308	9	340	83	31	66	180	1012
11:30 AM	16	337	32	385	21	16	9	46	18	317	9	344	66	26	57	149	924
11:45 AM	10	379	56	445	22	15	10	47	23	347	13	383	59	22	50	131	1006
Total Volume	37	1455	197	1689	95	61	40	196	101	1350	38	1489	246	106	223	575	3949
% App. Total	2.2	86.1	11.7		48.5	31.1	20.4		6.8	90.7	2.6		42.8	18.4	38.8		
PHF	.578	.960	.849	.949	.880	.897	.769	.891	.682	.893	.731	.882	.741	.855	.845	.799	.976



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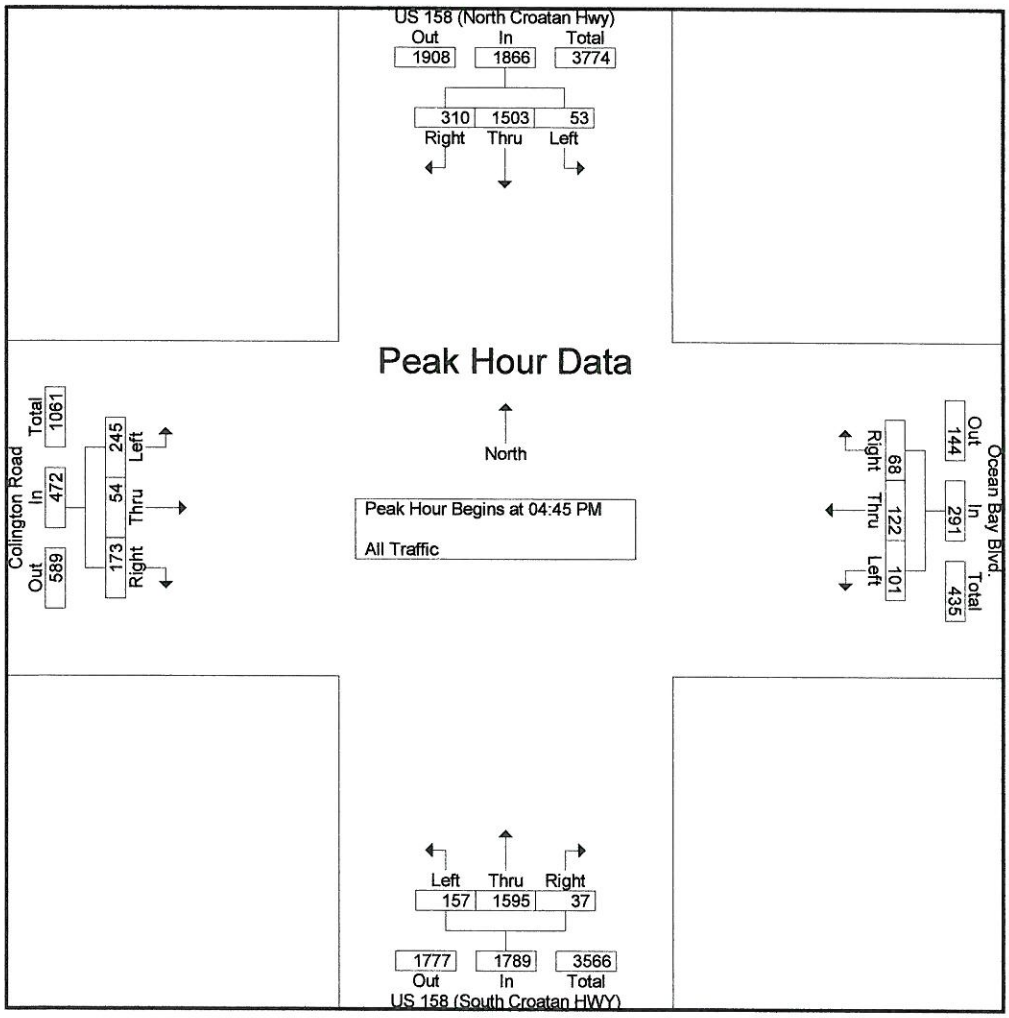
	US 158 (North Croatan Hwy) Southbound				Ocean Bay Blvd. Westbound				US 158 (South Croatan HWY) Northbound				Colington Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	20	392	70	482	21	31	22	74	37	405	11	453	65	8	59	132	1141
05:00 PM	15	371	71	457	20	28	14	62	36	404	12	452	73	25	35	133	1104
05:15 PM	5	355	88	448	30	37	17	84	42	352	6	400	62	12	38	112	1044
05:30 PM	13	385	81	479	30	26	15	71	42	434	8	484	45	9	41	95	1129
Total Volume	53	1503	310	1866	101	122	68	291	157	1595	37	1789	245	54	173	472	4418
% App. Total	2.8	80.5	16.6		34.7	41.9	23.4		8.8	89.2	2.1		51.9	11.4	36.7		
PHF	.663	.959	.881	.968	.842	.824	.773	.866	.935	.919	.771	.924	.839	.540	.733	.887	.968