

8 HOUR TMC

For

SR 536 @ World Center Drive/World Gateway Drive

Section 75039

M.P. 1.552

Orange County

Prepared For:



District 5 Traffic Operations
Florida Department of Transportation

Continuing Services Contract for Traffic Operations

427046-2-32-01

Work Order No. 4

Metric Project No. 4.1930

Prepared By:

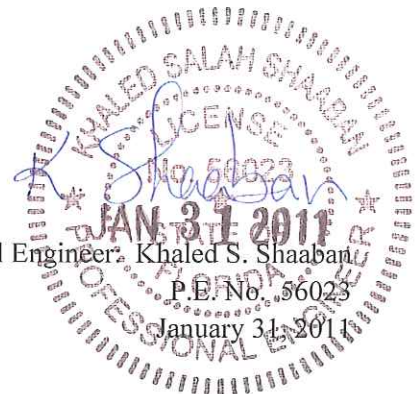


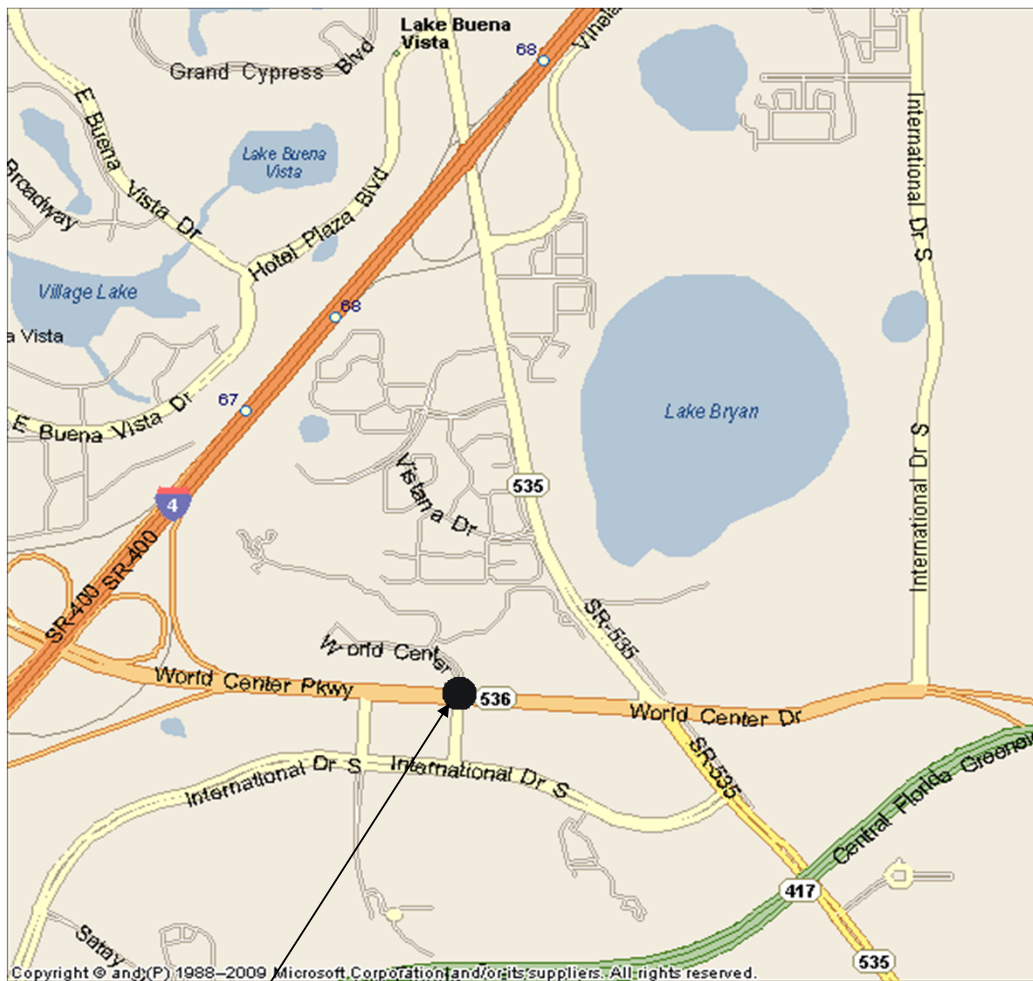
Metric Engineering, Inc.
615 Crescent Executive Court - Suite 524
Lake Mary, FL 32746
Florida Cert. No EB-0002294

Professional Engineer: Khaled S. Shaaban

P.E. No. 56023

January 31, 2011





Project Location



Project Location Map

SR 536 @ World Center Drive/World Gateway Drive

SR 536



Looking east into the intersection



Looking east at the intersection



Looking west into the intersection



Looking west at the intersection



Looking east from the intersection



Looking west from the intersection

World Gateway Drive



Looking north into the intersection



Looking north at the intersection

World Center Drive



Looking south into the intersection



Looking south at the intersection



Looking north from the intersection



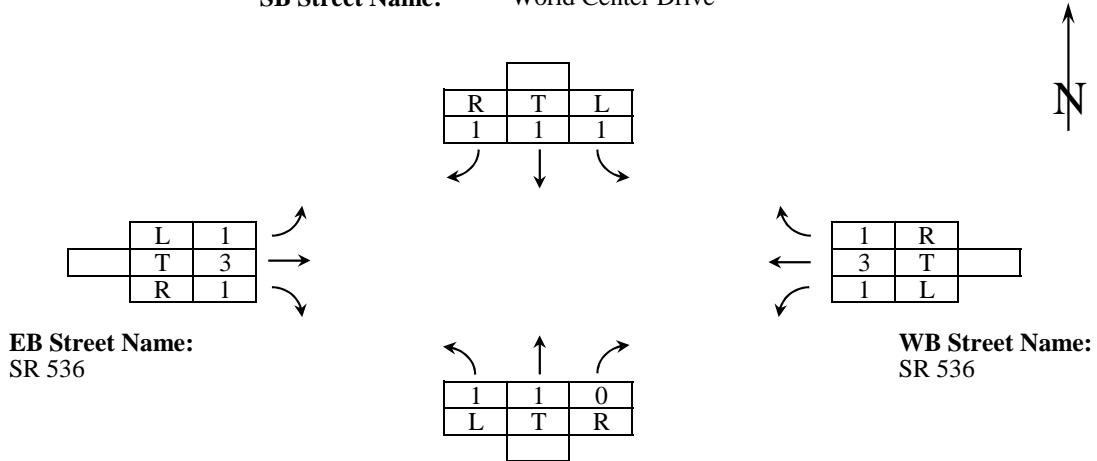
Looking south from the intersection

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

SUMMARY OF VEHICLE MOVEMENTS

Location: SR 536 @ World Center Dr/World Gateway Dr **Section:** 75039
North/ South Street: World Center Drive/World Gateway Drive **M.P.** 1.552
East/ West Street: SR 536 **City:** Orlando
Observer(s): Holif Fox **County:** Orange
Weather: Good **Date:** January 6, 2011
Road Condition: Good
Remarks:

SB Street Name: World Center Drive



Time	Northbound					Southbound					Total	Eastbound					Westbound					Total
Begin/End	L	T	R	U	Total	L	T	R	U	Total	N/S	L	T	R	U	Total	L	T	R	U	Total	E/W
6:30-7:00	8	3	7	0	18	21	2	13	0	36	54	34	118	2	0	154	6	508	97	0	611	765
7-8	21	6	13	0	40	55	6	35	0	96	136	114	317	6	2	439	6	1133	285	0	1424	1863
8-9	32	11	17	0	60	58	5	52	0	115	175	80	316	9	2	407	11	1221	213	0	1445	1852
10:45-11:45	14	6	14	0	34	94	6	127	0	227	261	35	409	18	0	462	20	905	90	5	1020	1482
11:45-12:45	23	8	21	0	52	117	15	119	0	251	303	51	479	16	2	548	24	904	104	7	1039	1587
2:30-3:00	11	0	8	0	19	68	7	47	1	123	142	24	360	16	2	402	9	443	50	0	502	904
3-4	21	7	27	0	55	123	8	138	0	269	324	54	1029	23	2	1108	17	973	160	10	1160	2268
4-5	20	8	31	0	59	211	18	240	3	472	531	56	1113	17	7	1193	17	906	136	3	1062	2255
5-6	13	8	41	0	62	176	15	166	0	357	419	65	1119	32	4	1220	30	842	118	7	997	2217
Total	163	57	179	0	399	923	82	937	4	1946	2345	513	5260	139	21	5933	140	7835	1253	32	9260	15193

PEDESTRIAN VOLUME SHEET

Remarks: _____

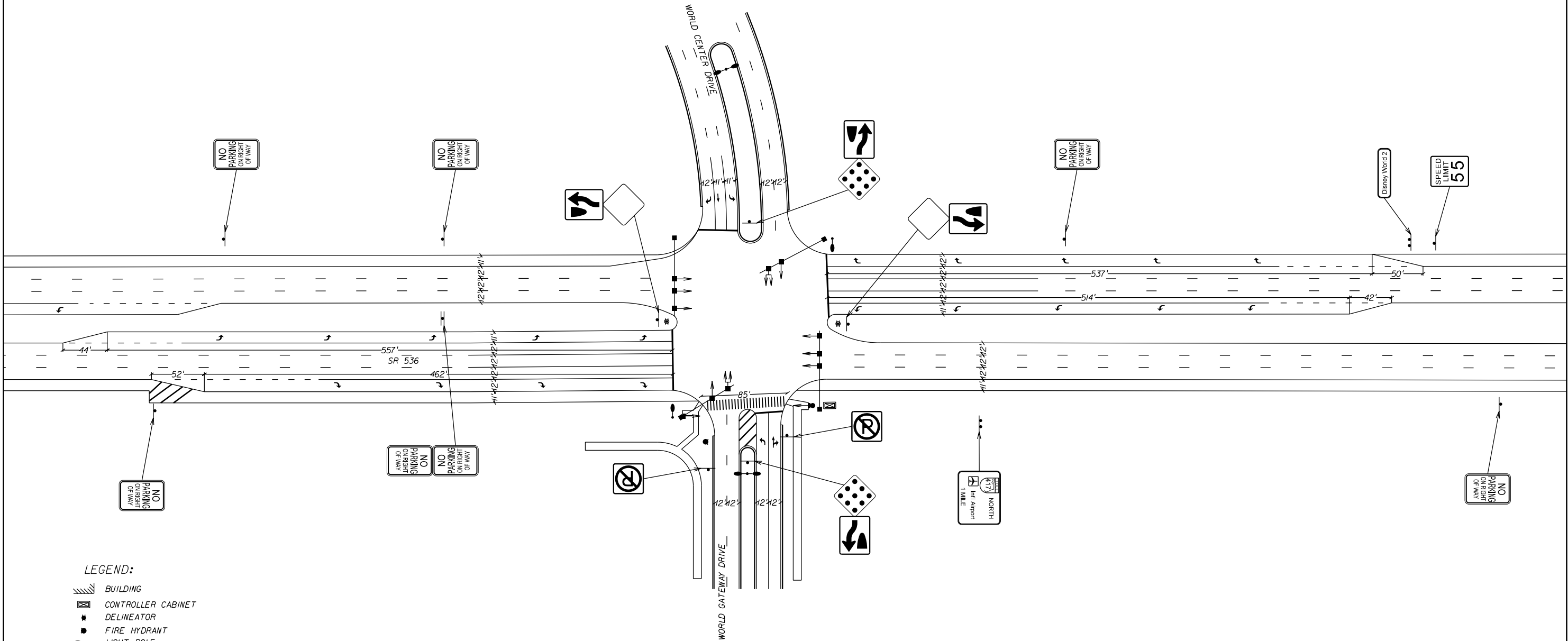
[illegible]

6:30-7	0	0	0
7-8	0	0	0
8-9	0	0	0
10:45-11:45	0	0	0
11:45-12:45	0	0	0
2:30-3	0	0	0
3-4	0	0	0
4-5	0	0	0
5-6	0	0	0
Total	0	0	0


6:30-7	0	0	0
7-8	0	0	0
8-9	0	0	0
10:45-11:45	0	0	0
11:45-12:45	0	0	0
2:30-3	0	0	0
3-4	0	1	1
4-5	0	0	0
5-6	0	0	0
Total	0	1	1

6:30-7	7-8	8-9	10:45-11:45	11:45-12:45	2:30-3	3-4	4-5	5-6	Total
0	0	0	0	0	0	1	0	0	1
0	0	0	0	0	0	1	0	0	1
0	0	0	0	0	0	2	0	0	2

NB Street Name: World Gateway Drive



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



METRIC ENGINEERING, INC.
615 CRESCENT EXECUTIVE CT
SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
CERTIFICATE OF AUTHORIZATION 2294

- ENGINEERS
- PLANNERS
- SURVEYORS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 536	ORANGE	427046-2-32-01

INTERSECTION SKETCH
SR 536 & WORLD CENTER DRIVE /
WORLD GATEWAY DRIVE

Metric Engineering, Inc.
615 Crescent Executive Court
Suite 524
Lake Mary, FL 32703

Location:
SR 536 @ World Center Drive/
World Gateway Drive

File Name : cleaned
Site Code : 00000000
Start Date : 1/6/2011
Page No : 1

Groups Printed- Autos - Trucks - U-Turns

	World Center Drive Southbound				SR 536 Westbound				World Gateway Drive Northbound				SR 536 Southbound				Int. Total
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
06:30 AM	11	2	8	0	3	232	32	0	3	1	4	0	16	48	1	0	361
06:45 AM	10	0	5	0	3	276	65	0	5	2	3	0	18	70	1	0	458
Total	21	2	13	0	6	508	97	0	8	3	7	0	34	118	2	0	819
07:00 AM	18	1	8	0	2	218	51	0	4	0	3	0	24	55	2	0	386
07:15 AM	16	1	4	0	0	316	56	0	6	3	5	0	23	67	1	0	498
07:30 AM	8	0	13	0	1	333	76	0	2	2	2	0	39	86	1	0	563
07:45 AM	13	4	10	0	3	266	102	0	9	1	3	0	30	109	2	0	552
Total	55	6	35	0	6	1133	285	0	21	6	13	0	116	317	6	0	1999
08:00 AM	14	1	12	0	3	246	39	0	6	3	5	0	24	85	3	0	441
08:15 AM	10	2	12	0	2	339	48	0	13	4	4	0	18	58	0	0	510
08:30 AM	26	1	14	0	4	281	78	0	7	1	3	0	19	80	5	0	519
08:45 AM	8	1	14	0	2	355	48	0	6	3	5	0	21	93	1	0	557
Total	58	5	52	0	11	1221	213	0	32	11	17	0	82	316	9	0	2027
10:45 AM	17	0	23	0	8	263	19	0	3	1	5	0	5	95	1	0	440
Total	17	0	23	0	8	263	19	0	3	1	5	0	5	95	1	0	440
11:00 AM	18	2	46	0	6	168	20	0	4	0	3	0	9	82	11	0	369
11:15 AM	30	2	29	0	5	236	27	0	6	3	1	0	9	116	6	0	470
11:30 AM	29	2	29	0	6	238	24	0	1	2	5	0	12	116	0	0	464
11:45 AM	28	3	22	0	5	225	26	0	5	6	5	0	6	122	10	0	463
Total	105	9	126	0	22	867	97	0	16	11	14	0	36	436	27	0	1766
12:00 PM	35	2	31	0	9	221	26	0	5	1	5	0	14	129	0	0	478
12:15 PM	34	8	38	0	7	238	24	0	7	1	6	0	13	107	1	0	484
12:30 PM	20	2	28	0	10	220	28	0	6	0	5	0	20	121	5	0	465
Total	89	12	97	0	26	679	78	0	18	2	16	0	47	357	6	0	1427
02:30 PM	43	7	29	0	2	225	22	0	9	0	4	0	11	168	11	0	531
02:45 PM	26	0	18	0	7	218	28	0	2	0	4	0	15	192	5	0	515
Total	69	7	47	0	9	443	50	0	11	0	8	0	26	360	16	0	1046
03:00 PM	36	2	23	0	6	252	29	0	6	1	4	0	10	222	6	0	597
03:15 PM	26	1	34	0	7	232	37	0	7	2	7	0	12	257	6	0	628
03:30 PM	34	3	48	0	7	271	58	0	7	1	7	0	19	295	6	0	756
03:45 PM	27	2	33	0	7	218	36	0	1	3	9	0	15	255	5	0	611
Total	123	8	138	0	27	973	160	0	21	7	27	0	56	1029	23	0	2592
04:00 PM	44	4	32	0	2	230	35	0	7	1	6	0	11	226	2	0	600
04:15 PM	41	2	49	0	5	236	31	0	5	1	10	0	19	278	4	0	681
04:30 PM	52	7	83	0	5	233	41	0	4	5	5	0	17	313	6	0	771
04:45 PM	77	5	76	0	8	207	29	0	4	1	10	0	16	296	5	0	734
Total	214	18	240	0	20	906	136	0	20	8	31	0	63	1113	17	0	2786
05:00 PM	49	6	50	0	9	249	43	0	5	3	2	0	16	301	10	0	743
05:15 PM	44	3	42	0	13	192	29	0	2	4	18	0	27	309	4	0	687
05:30 PM	35	2	32	0	5	202	21	0	4	0	13	0	11	279	8	0	612
05:45 PM	48	4	42	0	10	199	25	0	2	1	8	0	15	230	10	0	594
Total	176	15	166	0	37	842	118	0	13	8	41	0	69	1119	32	0	2636
Grand Total	927	82	937	0	172	7835	1253	0	163	57	179	0	534	5260	139	0	17538
Apprch %	47.6	4.2	48.2	0.0	1.9	84.6	13.5	0.0	40.9	14.3	44.9	0.0	9.0	88.7	2.3	0.0	
Total %	5.3	0.5	5.3	0.0	1.0	44.7	7.1	0.0	0.9	0.3	1.0	0.0	3.0	30.0	0.8	0.0	

Metric Engineering, Inc.
615 Crescent Executive Court
Suite 524
Lake Mary, FL 32703

File Name : cleaned
Site Code : 00000000
Start Date : 1/6/2011
Page No : 2

	World Center Drive Southbound					SR 536 Westbound					World Gateway Drive Northbound					SR 536 Southbound						
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total	
Peak Hour From 06:30 AM to 08:45 AM - Peak 1 of 1																						
Intersection	07:30 AM																					
Volume	45	7	47	0	99	9	118	265	0	1458	30	10	14	0	54	111	338	6	0	455	2066	
Percent	45.5	7.1	47.5	0.0		0.6	81.2	18.2	0.0		55.6	18.5	25.9	0.0		24.4	74.3	1.3	0.0			
07:30	8	0	13	0	21	1	333	76	0	410	2	2	2	0	6	39	86	1	0	126	563	
Volume																					0.917	
Peak Factor																						
High Int.	07:45 AM					07:30 AM					08:15 AM					07:45 AM						
Volume	13	4	10	0	27	1	333	76	0	410	13	4	4	0	21	30	109	2	0	141		
Peak Factor	0.917					0.889					0.643					0.807						
Peak Hour From 10:45 AM to 12:45 PM - Peak 1 of 1																						
Intersection	11:45 AM																					
Volume	117	15	119	0	251	31	904	104	0	1039	23	8	21	0	52	53	479	16	0	548	1890	
Percent	46.6	6.0	47.4	0.0		3.0	87.0	10.0	0.0		44.2	15.4	40.4	0.0		9.7	87.4	2.9	0.0			
12:15	34	8	38	0	80	7	238	24	0	269	7	1	6	0	14	13	107	1	0	121	484	
Volume																					0.976	
Peak Factor																						
High Int.	12:15 PM					12:15 PM					11:45 AM					12:30 PM						
Volume	34	8	38	0	80	7	238	24	0	269	5	6	5	0	16	20	121	5	0	146		
Peak Factor	0.784					0.966					0.813					0.938						
Peak Hour From 02:30 PM to 05:45 PM - Peak 1 of 1																						
Intersection	04:30 PM																					
Volume	222	21	251	0	494	35	881	142	0	1058	15	13	35	0	63	76	121	9	25	0	1320	2935
Percent	44.9	4.3	50.8	0.0		3.3	83.3	13.4	0.0		23.8	20.6	55.6	0.0		5.8	92.3	1.9	0.0			
04:30	52	7	83	0	142	5	233	41	0	279	4	5	5	0	14	17	313	6	0	336	771	
Volume																					0.952	
Peak Factor																						
High Int.	04:45 PM					05:00 PM					05:15 PM					05:15 PM						
Volume	77	5	76	0	158	9	249	43	0	301	2	4	18	0	24	27	309	4	0	340		
Peak Factor	0.782					0.879					0.656					0.971						

Metric Engineering, Inc.
615 Crescent Executive Court
Suite 524
Lake Mary, FL 32703

Location:
SR 536 @ World Center Drive/
World Gateway Drive

File Name : cleaned
Site Code : 00000000
Start Date : 1/6/2011
Page No : 1

Groups Printed- Trucks

	World Center Drive Southbound				SR 536 Westbound				World Gateway Drive Northbound				SR 536 Southbound				Int. Total
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
06:30 AM	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
06:45 AM	0	0	0	0	0	4	0	0	0	0	0	0	1	8	0	0	13
Total	0	1	0	0	0	4	0	0	0	0	1	0	1	8	0	0	15
07:00 AM	0	0	0	0	0	4	0	0	0	0	0	0	3	3	0	0	10
07:15 AM	2	0	0	0	0	9	1	0	0	0	1	0	0	3	0	0	16
07:30 AM	0	0	1	0	0	7	0	0	0	0	0	0	1	3	0	0	12
07:45 AM	1	0	0	0	0	6	2	0	0	0	0	0	0	4	0	0	13
Total	3	0	1	0	0	26	3	0	0	0	1	0	4	13	0	0	51
08:00 AM	3	0	0	0	0	7	0	0	0	0	1	0	0	5	0	0	16
08:15 AM	0	0	1	0	0	10	2	0	1	1	0	0	0	2	0	0	17
08:30 AM	1	0	1	0	1	7	1	0	0	0	0	0	0	7	0	0	18
08:45 AM	1	0	0	0	0	6	0	0	0	0	1	0	2	6	0	0	16
Total	5	0	2	0	1	30	3	0	1	1	2	0	2	20	0	0	67
10:45 AM	2	0	1	0	0	12	1	0	0	0	0	0	0	7	0	0	23
Total	2	0	1	0	0	12	1	0	0	0	0	0	0	7	0	0	23
11:00 AM	0	0	1	0	0	13	0	0	0	0	0	0	0	3	1	0	18
11:15 AM	0	0	0	0	0	13	0	0	1	1	0	0	0	10	0	0	25
11:30 AM	0	0	0	0	0	13	2	0	0	0	1	0	1	7	0	0	24
11:45 AM	2	0	0	0	1	9	0	0	0	1	0	0	0	6	0	0	19
Total	2	0	1	0	1	48	2	0	1	2	1	0	1	26	1	0	86
12:00 PM	0	0	1	0	1	5	1	0	0	0	0	0	0	13	0	0	21
12:15 PM	0	2	0	0	0	8	1	0	0	0	1	0	0	9	0	0	21
12:30 PM	0	0	1	0	1	10	0	0	0	0	0	0	1	9	0	0	22
Total	0	2	2	0	2	23	2	0	0	0	1	0	1	31	0	0	64
02:30 PM	1	0	0	0	0	11	1	0	1	0	0	0	0	4	0	0	18
02:45 PM	2	0	0	0	0	8	0	0	0	0	0	0	1	5	0	0	16
Total	3	0	0	0	0	19	1	0	1	0	0	0	1	9	0	0	34
03:00 PM	0	0	0	0	0	7	0	0	1	0	0	0	1	6	0	0	15
03:15 PM	0	0	1	0	0	8	0	0	1	0	0	0	1	4	0	0	15
03:30 PM	0	0	3	0	0	8	1	0	0	0	0	0	0	7	0	0	19
03:45 PM	1	0	0	0	0	2	0	0	0	0	1	0	0	2	0	0	6
Total	1	0	4	0	0	25	1	0	2	0	1	0	2	19	0	0	55
04:00 PM	0	0	0	0	0	6	0	0	1	0	0	0	0	3	0	0	10
04:15 PM	0	0	0	0	0	4	1	0	0	0	0	0	0	5	0	0	10
04:30 PM	1	0	0	0	0	2	2	0	0	1	0	0	1	2	0	0	9
04:45 PM	0	0	2	0	0	6	0	0	0	0	1	0	0	4	0	0	13
Total	1	0	2	0	0	18	3	0	1	1	1	0	1	14	0	0	42
05:00 PM	0	0	1	0	0	5	0	0	0	0	0	0	0	3	0	0	9
05:15 PM	0	0	0	0	0	7	0	0	1	0	0	0	0	0	0	0	8
05:30 PM	0	0	1	0	0	3	0	0	0	0	0	0	0	5	0	0	9
05:45 PM	0	0	0	0	0	6	0	0	0	0	0	0	0	2	0	0	8
Total	0	0	2	0	0	21	0	0	1	0	0	0	0	10	0	0	34
Grand Total	17	3	15	0	4	226	16	0	7	4	8	0	13	157	1	0	471
Apprch %	48.6	8.6	42.9	0.0	1.6	91.9	6.5	0.0	36.8	21.1	42.1	0.0	7.6	91.8	0.6	0.0	
Total %	3.6	0.6	3.2	0.0	0.8	48.0	3.4	0.0	1.5	0.8	1.7	0.0	2.8	33.3	0.2	0.0	