

A R C A D Y 6

ASSESSMENT OF ROUNDABOUT CAPACITY AND DELAY

Analysis Program: Release 3.0 (JUNE 2005)

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Run with file:-
"C:\Esteban\PROYECTOS\2000s\2048_ESTUDIO GLORIETA ESTEPONA\2048_arcady\arcady\con_seg_13a15.vai"
(drive-on-the-right) at 19:21:45 on wednesday, 14 November 2007

FILE PROPERTIES

RUN TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 13 a 15
LOCATION: ESTEPONA
DATE: 13/11/2007
CLIENT:
ENUMERATOR: econde [ORD-64]
JOB NUMBER: 2048
STATUS:
DESCRIPTION: Con carril segregado - Estudio de 13:00 h a 15:00 h.

INPUT DATA

ARM A - J.MARTIN
ARM B - GASOLINERA
ARM C - MAR
ARM D - J.CARLOS
ARM E - S.FERNANDO
ARM F - PUERTAS

GEOMETRIC DATA

ARM B IS JUNCTION EXIT ONLY

I	ARM	I	V (M)	I	E (M)	I	L (M)	I	R (M)	I	D (M)	I	PHI (DEG)	I	SLOPE	I	INTERCEPT (PCU/MIN)	I
I	ARM A	I	6.50	I	6.50	I	0.00	I	4.20	I	80.00	I	68.0	I	0.350	I	22.458	I
I	ARM C	I	6.50	I	7.37	I	5.50	I	12.00	I	80.00	I	48.0	I	0.486	I	32.344	I
I	ARM D	I	6.00	I	8.75	I	9.40	I	25.00	I	80.00	I	39.0	I	0.541	I	36.669	I
I	ARM E	I	4.25	I	9.50	I	23.80	I	25.00	I	80.00	I	40.0	I	0.535	I	36.082	I
I	ARM F	I	8.00	I	9.00	I	0.80	I	8.00	I	80.00	I	60.0	I	0.483	I	34.062	I

V = approach half-width L = effective flare length D = inscribed circle diameter
E = entry width R = entry radius PHI = entry angle

TRAFFIC DEMAND DATA

(Only sets included in the current run are shown)

I	ARM	I	FLOW	SCALE(%)	I
I	A	I	100		I
I	B	I	100		I
I	C	I	100		I
I	D	I	100		I
I	E	I	100		I
I	F	I	100		I

TIME PERIOD BEGINS 13.00 AND ENDS 15.00

LENGTH OF TIME PERIOD - 120 MINUTES.
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE INPUT DIRECTLY.
 DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 13 a 15

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 13 a 15

I I I I I	I	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)										I I I I I		
		I		I		I		I		I			I	
		FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F						
13.00 - 13.15														
	ARM A	0.013	0.000	0.120	0.502	0.309	0.056							
		0.2	0.0	1.8	7.6	4.7	0.9							
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)							
	ARM C	0.330	0.014	0.003	0.076	0.220	0.358							
		2.4	0.1	0.0	0.6	1.6	2.6							
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)							
	ARM D	0.345	0.061	0.054	0.014	0.122	0.405							
		2.5	0.4	0.4	0.1	0.9	3.0							
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)							
	ARM E	0.380	0.082	0.082	0.058	0.000	0.398							
		3.3	0.7	0.7	0.5	0.0	3.4							
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)							
	ARM F	0.047	0.040	0.257	0.423	0.229	0.004							
		0.6	0.5	3.3	5.3	2.9	0.1							
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)							

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
13.15 - 13.30	ARM A	0.013	0.000	0.120	0.502	0.309	0.056			
		0.2	0.0	1.8	7.6	4.7	0.9			
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)			
	ARM C	0.330	0.014	0.003	0.076	0.220	0.358			
		2.4	0.1	0.0	0.6	1.6	2.6			
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)			
	ARM D	0.345	0.061	0.054	0.014	0.122	0.405			
		2.5	0.4	0.4	0.1	0.9	3.0			
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)			
	ARM E	0.380	0.082	0.082	0.058	0.000	0.398			
		3.3	0.7	0.7	0.5	0.0	3.4			
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)			
	ARM F	0.047	0.040	0.257	0.423	0.229	0.004			
		0.6	0.5	3.3	5.3	2.9	0.1			
		(10.0)	(10.0)	(10.0)	(10.0)	(10.0)	(10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
13.30 - 13.45	ARM A	0.013 0.2 (10.0)	0.000 0.0 (10.0)	0.120 1.8 (10.0)	0.502 7.6 (10.0)	0.309 4.7 (10.0)	0.056 0.9 (10.0)			
	ARM C	0.330 2.4 (10.0)	0.014 0.1 (10.0)	0.003 0.0 (10.0)	0.076 0.6 (10.0)	0.220 1.6 (10.0)	0.358 2.6 (10.0)			
	ARM D	0.345 2.5 (10.0)	0.061 0.4 (10.0)	0.054 0.4 (10.0)	0.014 0.1 (10.0)	0.122 0.9 (10.0)	0.405 3.0 (10.0)			
	ARM E	0.380 3.3 (10.0)	0.082 0.7 (10.0)	0.082 0.7 (10.0)	0.058 0.5 (10.0)	0.000 0.0 (10.0)	0.398 3.4 (10.0)			
	ARM F	0.047 0.6 (10.0)	0.040 0.5 (10.0)	0.257 3.3 (10.0)	0.423 5.3 (10.0)	0.229 2.9 (10.0)	0.004 0.1 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
13.45 - 14.00	ARM A	0.013 0.2 (10.0)	0.000 0.0 (10.0)	0.120 1.8 (10.0)	0.502 7.6 (10.0)	0.309 4.7 (10.0)	0.056 0.9 (10.0)			
	ARM C	0.330 2.4 (10.0)	0.014 0.1 (10.0)	0.003 0.0 (10.0)	0.076 0.6 (10.0)	0.220 1.6 (10.0)	0.358 2.6 (10.0)			
	ARM D	0.345 2.5 (10.0)	0.061 0.4 (10.0)	0.054 0.4 (10.0)	0.014 0.1 (10.0)	0.122 0.9 (10.0)	0.405 3.0 (10.0)			
	ARM E	0.380 3.3 (10.0)	0.082 0.7 (10.0)	0.082 0.7 (10.0)	0.058 0.5 (10.0)	0.000 0.0 (10.0)	0.398 3.4 (10.0)			
	ARM F	0.047 0.6 (10.0)	0.040 0.5 (10.0)	0.257 3.3 (10.0)	0.423 5.3 (10.0)	0.229 2.9 (10.0)	0.004 0.1 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
14.00 - 14.15	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.195 3.0 (10.0)	0.519 8.0 (10.0)	0.266 4.1 (10.0)	0.019 0.3 (10.0)			
	ARM C	0.271 1.6 (10.0)	0.017 0.1 (10.0)	0.000 0.0 (10.0)	0.042 0.3 (10.0)	0.220 1.3 (10.0)	0.449 2.7 (10.0)			
	ARM D	0.311 2.3 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.155 1.1 (10.0)	0.453 3.3 (10.0)			
	ARM E	0.429 3.2 (10.0)	0.027 0.2 (10.0)	0.129 0.9 (10.0)	0.061 0.4 (10.0)	0.000 0.0 (10.0)	0.354 2.6 (10.0)			
	ARM F	0.012 0.2 (10.0)	0.020 0.3 (10.0)	0.272 3.5 (10.0)	0.457 5.8 (10.0)	0.232 3.0 (10.0)	0.008 0.1 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
14.15 - 14.30	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.195 3.0 (10.0)	0.519 8.0 (10.0)	0.266 4.1 (10.0)	0.019 0.3 (10.0)			
	ARM C	0.271 1.6 (10.0)	0.017 0.1 (10.0)	0.000 0.0 (10.0)	0.042 0.3 (10.0)	0.220 1.3 (10.0)	0.449 2.7 (10.0)			
	ARM D	0.311 2.3 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.155 1.1 (10.0)	0.453 3.3 (10.0)			
	ARM E	0.429 3.2 (10.0)	0.027 0.2 (10.0)	0.129 0.9 (10.0)	0.061 0.4 (10.0)	0.000 0.0 (10.0)	0.354 2.6 (10.0)			
	ARM F	0.012 0.2 (10.0)	0.020 0.3 (10.0)	0.272 3.5 (10.0)	0.457 5.8 (10.0)	0.232 3.0 (10.0)	0.008 0.1 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
14.30 - 14.45	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.195 3.0 (10.0)	0.519 8.0 (10.0)	0.266 4.1 (10.0)	0.019 0.3 (10.0)			
	ARM C	0.271 1.6 (10.0)	0.017 0.1 (10.0)	0.000 0.0 (10.0)	0.042 0.3 (10.0)	0.220 1.3 (10.0)	0.449 2.7 (10.0)			
	ARM D	0.311 2.3 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.155 1.1 (10.0)	0.453 3.3 (10.0)			
	ARM E	0.429 3.2 (10.0)	0.027 0.2 (10.0)	0.129 0.9 (10.0)	0.061 0.4 (10.0)	0.000 0.0 (10.0)	0.354 2.6 (10.0)			
	ARM F	0.012 0.2 (10.0)	0.020 0.3 (10.0)	0.272 3.5 (10.0)	0.457 5.8 (10.0)	0.232 3.0 (10.0)	0.008 0.1 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 13 a 15

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
14.45 - 15.00	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.195 3.0 (10.0)	0.519 8.0 (10.0)	0.266 4.1 (10.0)	0.019 0.3 (10.0)			
	ARM C	0.271 1.6 (10.0)	0.017 0.1 (10.0)	0.000 0.0 (10.0)	0.042 0.3 (10.0)	0.220 1.3 (10.0)	0.449 2.7 (10.0)			
	ARM D	0.311 2.3 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.027 0.2 (10.0)	0.155 1.1 (10.0)	0.453 3.3 (10.0)			
	ARM E	0.429 3.2 (10.0)	0.027 0.2 (10.0)	0.129 0.9 (10.0)	0.061 0.4 (10.0)	0.000 0.0 (10.0)	0.354 2.6 (10.0)			
	ARM F	0.012 0.2 (10.0)	0.020 0.3 (10.0)	0.272 3.5 (10.0)	0.457 5.8 (10.0)	0.232 3.0 (10.0)	0.008 0.1 (10.0)			

QUEUE AND DELAY INFORMATION FOR EACH 15 MIN TIME SEGMENT

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
13.00-13.15									
ARM A	15.05	15.18	0.991		0.0	13.6	136.0		0.70
ARM C	7.27	19.05	0.382		0.0	0.6	8.9		0.08
ARM D	7.40	25.24	0.293		0.0	0.4	6.1		0.06
ARM E	8.55	26.06	0.328		0.0	0.5	7.1		0.06
ARM F	12.65	25.50	0.496		0.0	1.0	14.1		0.08
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE:		ENTRY WIDTH (.1M)		FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)		ENTRY ANGLE (10 DEGS)		
ARM A		0.295		0.000	0.029		-0.845		
ARM C		0.160		0.128	0.056		-0.801		
ARM D		0.113		0.309	0.044		-0.983		
ARM E		0.149		0.231	0.037		-1.018		
ARM F		0.015		0.739	0.030		-1.181		

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
13.15-13.30									
ARM A	15.05	15.16	0.993		13.6	19.1	248.2		1.29
ARM C	7.27	18.78	0.387		0.6	0.6	9.3		0.09
ARM D	7.40	25.10	0.295		0.4	0.4	6.2		0.06
ARM E	8.55	26.01	0.329		0.5	0.5	7.3		0.06
ARM F	12.65	25.47	0.497		1.0	1.0	14.7		0.08
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL		ENTRY	FLARE	INSCRIBED	ENTRY				
CHANGE:		WIDTH	LENGTH	CIRC DIAM	ANGLE				
		(.1M)	(M)	(M)	(10 DEGS)				
ARM A		0.295	0.000	0.029	-0.844				
ARM C		0.159	0.127	0.058	-0.790				
ARM D		0.112	0.308	0.045	-0.977				
ARM E		0.148	0.231	0.037	-1.016				
ARM F		0.015	0.739	0.030	-1.180				

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
13.30-13.45									
ARM A	15.05	15.16	0.993		19.1	23.2	318.5		1.59
ARM C	7.27	18.74	0.388		0.6	0.6	9.4		0.09
ARM D	7.40	25.08	0.295		0.4	0.4	6.3		0.06
ARM E	8.55	26.01	0.329		0.5	0.5	7.3		0.06
ARM F	12.65	25.47	0.497		1.0	1.0	14.7		0.08
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL		ENTRY	FLARE	INSCRIBED	ENTRY				
CHANGE:		WIDTH	LENGTH	CIRC DIAM	ANGLE				
		(.1M)	(M)	(M)	(10 DEGS)				
ARM A		0.295	0.000	0.029	-0.844				
ARM C		0.159	0.127	0.058	-0.789				
ARM D		0.112	0.307	0.045	-0.976				
ARM E		0.148	0.231	0.037	-1.016				
ARM F		0.015	0.739	0.030	-1.180				

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
13.45-14.00									
ARM A	15.05	15.16	0.993		23.2	26.5	373.1		1.82
ARM C	7.27	18.72	0.388		0.6	0.6	9.5		0.09
ARM D	7.40	25.07	0.295		0.4	0.4	6.3		0.06
ARM E	8.55	26.01	0.329		0.5	0.5	7.3		0.06
ARM F	12.65	25.47	0.497		1.0	1.0	14.8		0.08
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL		ENTRY	FLARE	INSCRIBED	ENTRY				
CHANGE:		WIDTH	LENGTH	CIRC DIAM	ANGLE				
		(.1M)	(M)	(M)	(10 DEGS)				
ARM A		0.295	0.000	0.029	-0.844				
ARM C		0.159	0.127	0.058	-0.788				
ARM D		0.112	0.307	0.045	-0.976				
ARM E		0.148	0.231	0.037	-1.016				
ARM F		0.015	0.739	0.030	-1.180				

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
14.00-14.15									
ARM A	15.40	15.22	1.012		26.5	32.5	443.3		2.13
ARM C	5.90	18.85	0.313		0.6	0.5	7.0		0.08
ARM D	7.40	26.23	0.282		0.4	0.4	6.0		0.05
ARM E	7.35	26.88	0.273		0.5	0.4	5.8		0.05
ARM F	12.70	26.43	0.480		1.0	0.9	14.1		0.07
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL		ENTRY	FLARE	INSCRIBED	ENTRY				
CHANGE:		WIDTH	LENGTH	CIRC DIAM	ANGLE				
		(.1M)	(M)	(M)	(10 DEGS)				
ARM A		0.296	0.000	0.028	-0.847				
ARM C		0.159	0.127	0.058	-0.793				
ARM D		0.115	0.315	0.039	-1.021				
ARM E		0.151	0.235	0.032	-1.050				
ARM F		0.015	0.755	0.025	-1.225				

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
14.15-14.30									
ARM A	15.40	15.22	1.012		32.5	37.9	528.6		2.49
ARM C	5.90	18.88	0.312		0.5	0.5	6.9		0.08
ARM D	7.40	26.29	0.281		0.4	0.4	5.9		0.05
ARM E	7.35	26.92	0.273		0.4	0.4	5.7		0.05
ARM F	12.70	26.45	0.480		0.9	0.9	13.9		0.07
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
	MARGINAL CHANGE:	ENTRY WIDTH (.1M)	FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)	ENTRY ANGLE (10 DEGS)				
	ARM A	0.296	0.000	0.028	-0.847				
	ARM C	0.159	0.127	0.057	-0.795				
	ARM D	0.115	0.315	0.038	-1.024				
	ARM E	0.151	0.235	0.032	-1.052				
	ARM F	0.015	0.755	0.025	-1.225				

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
14.30-14.45									
ARM A	15.40	15.22	1.012		37.9	42.9	606.4		2.82
ARM C	5.90	18.88	0.313		0.5	0.5	6.8		0.08
ARM D	7.40	26.30	0.281		0.4	0.4	5.9		0.05
ARM E	7.35	26.92	0.273		0.4	0.4	5.6		0.05
ARM F	12.70	26.45	0.480		0.9	0.9	13.9		0.07
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
	MARGINAL CHANGE:	ENTRY WIDTH (.1M)	FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)	ENTRY ANGLE (10 DEGS)				
	ARM A	0.296	0.000	0.028	-0.847				
	ARM C	0.159	0.127	0.057	-0.794				
	ARM D	0.115	0.315	0.038	-1.024				
	ARM E	0.151	0.235	0.032	-1.052				
	ARM F	0.015	0.755	0.025	-1.225				

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
14.45-15.00									
ARM A	15.40	15.22	1.012		42.9	47.6	679.2		3.13
ARM C	5.90	18.87	0.313		0.5	0.5	6.8		0.08
ARM D	7.40	26.30	0.281		0.4	0.4	5.9		0.05
ARM E	7.35	26.92	0.273		0.4	0.4	5.6		0.05
ARM F	12.70	26.45	0.480		0.9	0.9	13.9		0.07
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
	MARGINAL CHANGE:	ENTRY WIDTH (.1M)	FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)	ENTRY ANGLE (10 DEGS)				
	ARM A	0.296	0.000	0.028	-0.847				
	ARM C	0.159	0.127	0.057	-0.794				
	ARM D	0.115	0.315	0.038	-1.024				
	ARM E	0.151	0.235	0.032	-1.052				
	ARM F	0.015	0.755	0.025	-1.225				

QUEUE AT ARM A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
13.15	13.6	*****
13.30	19.1	*****
13.45	23.2	*****
14.00	26.5	*****
14.15	32.5	*****
14.30	37.9	*****
14.45	42.9	*****
15.00	47.6	*****

QUEUE AT ARM C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
13.15	0.6	*
13.30	0.6	*
13.45	0.6	*
14.00	0.6	*
14.15	0.5	
14.30	0.5	
14.45	0.5	
15.00	0.5	

QUEUE AT ARM D

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
13.15	0.4	
13.30	0.4	
13.45	0.4	
14.00	0.4	
14.15	0.4	
14.30	0.4	
14.45	0.4	
15.00	0.4	

QUEUE AT ARM E

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
13.15	0.5	
13.30	0.5	
13.45	0.5	
14.00	0.5	
14.15	0.4	
14.30	0.4	
14.45	0.4	
15.00	0.4	

QUEUE AT ARM F

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
13.15	1.0	*
13.30	1.0	*
13.45	1.0	*
14.00	1.0	*
14.15	0.9	*
14.30	0.9	*
14.45	0.9	*
15.00	0.9	*

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	ARM	I	TOTAL	DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I
I		I			I	* DELAY *	I	* DELAY *	I
I		I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)
I		I			I			I	(MIN/VEH)
I	A	I	1827.0	I 913.5	I 3333.3	I 1.82	I 3407.8	I 1.87	I
I	C	I	790.2	I 395.1	I 64.7	I 0.08	I 64.7	I 0.08	I
I	D	I	888.0	I 444.0	I 48.5	I 0.05	I 48.5	I 0.05	I
I	E	I	954.0	I 477.0	I 51.8	I 0.05	I 51.8	I 0.05	I
I	F	I	1521.0	I 760.5	I 114.2	I 0.08	I 114.2	I 0.08	I
I	ALL	I	5980.2	I 2990.1	I 3612.4	I 0.60	I 3687.0	I 0.62	I

* DELAY IS THAT OCCURRING ONLY WITHIN THE TIME PERIOD.
* INCLUSIVE DELAY INCLUDES DELAY SUFFERED BY VEHICLES WHICH ARE STILL QUEUEING AFTER THE END OF THE TIME PERIOD.
* THESE WILL ONLY BE SIGNIFICANTLY DIFFERENT IF THERE IS A LARGE QUEUE REMAINING AT THE END OF THE TIME PERIOD.

END OF JOB

===== end of file =====

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