

Appendix D

---

**Local Highway  
Network: Junction  
Analyses**



TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

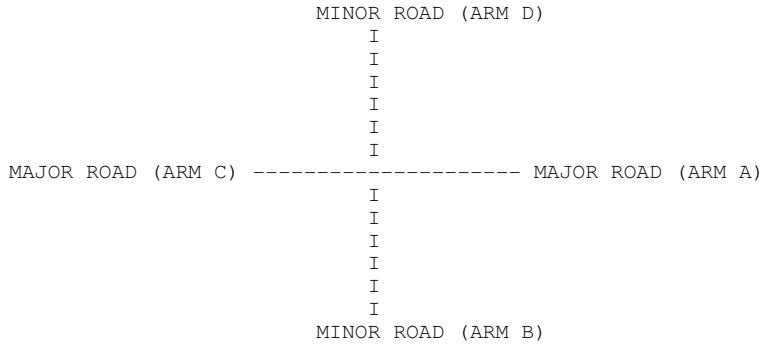
"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 4. B4030 Lower Heyford Rd - Port Way\2006 Base\AM\Site 4.Lower Heyford - Port Way 2006 Base AM.vpi"  
(drive-on-the-left ) at 08:49:43 on Wednesday, 11 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 4. Lower Heyford Rd - Port Way 2006 Base AM  
LOCATION: Oxfordshire  
DATE: 06/12/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: chris.morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----



ARM A IS Lower Heyford Road (E)  
ARM B IS Port Way (S)  
ARM C IS Lower Heyford Road (W)  
ARM D IS Port Way (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I	MINOR ROAD D	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.00 M.	I	( W ) 7.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I	(WCR ) 0.00 M.	I
I		I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I	(WA-D) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 150.0 M.	I	(VA-D) 150.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I	YES	I
I		I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 38.0 M.	I	(VD-A) 95.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 72.0 M.	I	(VD-C) 92.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I	(WD-A) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I	(WD-C) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I	8.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.50 M.	I	5.80 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	4.10 M.	I	4.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.70 M.	I	3.20 M.	I
I	- LENGTH OF FLARED SECTION	I	DERIVED: 1 PCU	I	2 VEHS	I

.SLOPES AND INTERCPET

(NB:Streams may be combined, in which case capacity will be adjusted )

B-C Stream

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	615.66	0.23	0.09	I

D-A Stream

I	Intercept For Stream D-A	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	I
I	627.24	0.23	0.09	I

B-A Stream

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream D-A	Slope For Opposing Stream D-B	I
I	483.33	0.21	0.21	0.21	0.21	I

I	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	I
I	0.08	0.13	0.30	0.11	I

D-C Stream

I	Intercept For Stream D-C	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream B-C	Slope For Opposing Stream B-D	I
I	510.47	0.22	0.22	0.22	0.22	I

I	Slope For Opposing Stream C-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream B-A	I
I	0.09	0.14	0.32	0.11	I

C-B Stream

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	I
I	660.83	0.24	0.35	I

A-D Stream

I	Intercept For Stream A-D	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	660.83	0.24	0.35	I

B-D Stream From Left Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.13	0.13			I

B-D Stream From Right Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.13	0.13			I

D-B Stream From Left Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream D-C	Slope For Opposing Stream A-D	I
I	0.14	0.14			I

D-B Stream From Right Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream C-D	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-D	Slope For Opposing Stream A-D	I
I	0.14	0.14			I

TRAFFIC DEMAND DATA

ARM	FLOW SCALE (%)
A	100
B	100
C	100
D	100

Demand set: Site 4. Lower Heyford Rd - Port Way 2006 Existing AM

TIME PERIOD BEGINS 07.45 AND ENDS 09.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

ARM	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	TOP OF PEAK IS REACHED	FLOW STOPS FALLING	RATE OF FLOW (VEH/MIN) BEFORE PEAK	AT TOP OF PEAK	AFTER PEAK
ARM A	15.00	45.00	75.00	1.69	2.53	1.69
ARM B	15.00	45.00	75.00	0.91	1.37	0.91
ARM C	15.00	45.00	75.00	2.56	3.84	2.56
ARM D	15.00	45.00	75.00	0.28	0.41	0.28

TIME	TURNING PROPORTIONS			
	ARM A	ARM B	ARM C	ARM D
07.45 - 09.15	0.000	0.111	0.889	0.000
	(0.0)	(0.0)	(0.0)	(0.0)
	0.534	0.000	0.411	0.055
	(0.0)	(0.0)	(0.0)	(0.0)
	0.761	0.239	0.000	0.000
	(0.0)	(0.0)	(0.0)	(0.0)
	0.091	0.818	0.091	0.000
	(0.0)	(0.0)	(0.0)	(0.0)

TURNING PROPORTIONS ARE CALCULATED FROM TURNING COUNT DATA

QUEUE AND DELAY INFORMATION FOR EACH 15 MIN TIME SEGMENT

FOR COMBINED DEMAND SETS  
 AND FOR TIME PERIOD 1

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)
07.45-08.00									
B-CD	0.40	10.65	0.038		0.00	0.04	0.6		0.10
B-AD	0.51	8.27	0.062		0.00	0.07	0.9		0.13
A-BCD	0.00	9.38	0.000		0.00	0.00	0.0		0.00
D-AB	0.14	10.43	0.013		0.00	0.01	0.2		0.10
D-BC	0.14	8.28	0.017		0.00	0.02	0.2		0.12
C-ABD	0.61	10.60	0.058		0.00	0.06	0.9		0.10
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE:	LANE WIDTH (.1M)	MAJOR RD. WIDTH (.1M)	CENT RES WIDTH (.1M)	VIS TO LEFT (AHEAD FOR MAJOR) (M)	VISIBILITY TO RIGHT (M)				
B-CD	0.104	0.002	0.002	0.001	0.010				
B-AD	0.078	0.004	0.021	0.005	0.008				
C-ABD	0.115	0.002		0.009					
D-AB	0.087	0.005	0.022	0.006	0.010				
D-BC	0.083	0.004	0.021	0.005	0.008				
A-BCD	0.112	0.003		0.009					







QUEUE FOR STREAM D-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM D-BC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM C-ABD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.1

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	I	I	* DELAY *	I	* DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	B-CD	I	44.3	I	29.5	I	4.4	I	0.10	I
I	B-AD	I	56.2	I	37.5	I	7.6	I	0.13	I
I	A-BCD	I	0.0	I	0.0	I	0.0	I	0.00	I
I	D-AB	I	15.2	I	10.1	I	1.5	I	0.10	I
I	D-BC	I	15.1	I	10.1	I	1.9	I	0.13	I
I	C-ABD	I	67.4	I	45.0	I	7.0	I	0.10	I
I	ALL	I	598.7	I	399.2	I	22.4	I	0.04	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

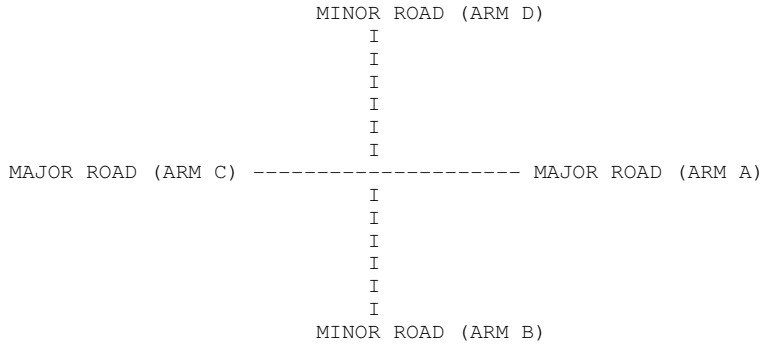
"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 4. B4030 Lower Heyford Rd - Port Way\2006 Base\PM\Site 4.Lower Heyford - Port Way 2006 Base PM.vpi"  
(drive-on-the-left ) at 08:52:01 on Wednesday, 11 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 4. Lower Heyford Rd - Port Way 2006 Base PM  
LOCATION: Oxfordshire  
DATE: 06/12/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: chris.morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----



ARM A IS Lower Heyford Road (E)  
ARM B IS Port Way (S)  
ARM C IS Lower Heyford Road (W)  
ARM D IS Port Way (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I	MINOR ROAD D	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.00 M.	I	( W ) 7.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I	(WCR ) 0.00 M.	I
I		I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I	(WA-D) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 150.0 M.	I	(VA-D) 150.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I	YES	I
I		I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 38.0 M.	I	(VD-A) 95.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 72.0 M.	I	(VD-C) 92.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I	(WD-A) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I	(WD-C) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I	8.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.50 M.	I	5.80 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	4.10 M.	I	4.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.70 M.	I	3.20 M.	I
I	- LENGTH OF FLARED SECTION	I	DERIVED: 1 PCU	I	2 VEHS	I

.SLOPES AND INTERCPET

(NB:Streams may be combined, in which case capacity will be adjusted )

B-C Stream

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	615.66	0.23	0.09	I

D-A Stream

I	Intercept For Stream D-A	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	I
I	627.24	0.23	0.09	I

B-A Stream

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream D-A	Slope For Opposing Stream D-B	I
I	483.33	0.21	0.21	0.21	0.21	I

I	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	I
I	0.08	0.13	0.30	0.11	I

D-C Stream

I	Intercept For Stream D-C	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream B-C	Slope For Opposing Stream B-D	I
I	510.47	0.22	0.22	0.22	0.22	I

I	Slope For Opposing Stream C-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream B-A	I
I	0.09	0.14	0.32	0.11	I

C-B Stream

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	I
I	660.83	0.24	0.35	I

A-D Stream

I	Intercept For Stream A-D	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	660.83	0.24	0.35	I

B-D Stream From Left Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream C-B	I
I	0.13	0.13		I

B-D Stream From Right Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream C-B	I
I	0.13	0.13		I

D-B Stream From Left Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.14	0.14		I

D-B Stream From Right Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream C-D	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.14	0.14		I

TRAFFIC DEMAND DATA

ARM	FLOW SCALE (%)
A	100
B	100
C	100
D	100

Demand set: Site 4. Lower Heyford Rd - Port Way 2006 Existing PM

TIME PERIOD BEGINS 16.45 AND ENDS 18.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

ARM	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	TOP OF PEAK IS REACHED	FLOW STOPS FALLING	RATE OF FLOW (VEH/MIN) BEFORE PEAK	AT TOP OF PEAK	AFTER PEAK
ARM A	15.00	45.00	75.00	1.88	2.81	1.88
ARM B	15.00	45.00	75.00	3.36	5.04	3.36
ARM C	15.00	45.00	75.00	1.83	2.74	1.83
ARM D	15.00	45.00	75.00	0.09	0.13	0.09

TIME	TURNING PROPORTIONS				
	FROM/TO	ARM A	ARM B	ARM C	ARM D
16.45 - 18.15	ARM A	0.000	0.000	0.993	0.007
		( 0.0)	( 0.0)	( 0.0)	( 0.0)
	ARM B	0.383	0.000	0.513	0.104
		103.0	0.0	138.0	28.0
		( 0.0)	( 0.0)	( 0.0)	( 0.0)
	ARM C	0.760	0.055	0.000	0.185
		111.0	8.0	0.0	27.0
		( 0.0)	( 0.0)	( 0.0)	( 0.0)
	ARM D	0.143	0.714	0.143	0.000
		1.0	5.0	1.0	0.0
		( 0.0)	( 0.0)	( 0.0)	( 0.0)

TURNING PROPORTIONS ARE CALCULATED FROM TURNING COUNT DATA

QUEUE AND DELAY INFORMATION FOR EACH 15 MIN TIME SEGMENT

FOR COMBINED DEMAND SETS  
 AND FOR TIME PERIOD 1

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)
16.45-17.00									
B-CD	1.93	10.28	0.188		0.00	0.23	3.3		0.12
B-AD	1.44	8.35	0.173		0.00	0.21	3.0		0.14
A-BCD	0.01	10.55	0.001		0.00	0.00	0.0		0.09
D-AB	0.04	10.94	0.004		0.00	0.00	0.1		0.09
D-BC	0.04	8.31	0.005		0.00	0.01	0.1		0.12
C-ABD	0.10	10.55	0.010		0.00	0.01	0.1		0.10
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE:	LANE WIDTH (.1M)	WIDTH (.1M)	MAJOR RD. WIDTH (.1M)	CENT RES WIDTH (.1M)	VIS TO LEFT (AHEAD FOR MAJOR) (M)	VISIBILITY TO RIGHT (M)			
B-CD	0.099	0.002	0.004	0.001	0.009				
B-AD	0.081	0.003	0.020	0.005	0.008				
C-ABD	0.115	0.002		0.009					
D-AB	0.091	0.003	0.020	0.005	0.010				
D-BC	0.084	0.004	0.021	0.005	0.008				
A-BCD	0.115	0.002		0.009					

-----

I	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)	I	
I	17.00-17.15										I	
I	B-CD	2.32	10.02	0.231		0.23	0.30	4.4		0.13	I	
I	B-AD	1.71	8.19	0.209		0.21	0.26	3.8		0.15	I	
I	A-BCD	0.01	10.47	0.001		0.00	0.00	0.0		0.10	I	
I	D-AB	0.05	10.79	0.005		0.00	0.00	0.1		0.09	I	
I	D-BC	0.05	8.13	0.006		0.01	0.01	0.1		0.12	I	
I	C-ABD	0.12	10.46	0.011		0.01	0.01	0.2		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.097	0.003	0.004	0.001		0.009			I	
I	B-AD		0.079	0.004	0.020	0.005		0.008			I	
I	C-ABD		0.114	0.003		0.009					I	
I	D-AB		0.090	0.004	0.020	0.005		0.010			I	
I	D-BC		0.082	0.005	0.021	0.005		0.008			I	
I	A-BCD		0.114	0.003		0.009					I	

-----

I	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)	I	
I	17.15-17.30										I	
I	B-CD	2.85	9.64	0.296		0.30	0.41	6.0		0.15	I	
I	B-AD	2.09	7.96	0.262		0.26	0.35	5.1		0.17	I	
I	A-BCD	0.02	10.34	0.002		0.00	0.00	0.0		0.10	I	
I	D-AB	0.06	10.58	0.006		0.00	0.01	0.1		0.10	I	
I	D-BC	0.06	7.89	0.008		0.01	0.01	0.1		0.13	I	
I	C-ABD	0.15	10.34	0.014		0.01	0.01	0.2		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.094	0.003	0.004	0.001		0.009			I	
I	B-AD		0.077	0.005	0.020	0.005		0.008			I	
I	C-ABD		0.112	0.003		0.009					I	
I	D-AB		0.088	0.005	0.020	0.005		0.010			I	
I	D-BC		0.079	0.006	0.021	0.005		0.007			I	
I	A-BCD		0.113	0.003		0.009					I	

-----

I	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)	I	
I	17.30-17.45										I	
I	B-CD	2.85	9.63	0.296		0.41	0.42	6.2		0.15	I	
I	B-AD	2.09	7.96	0.262		0.35	0.35	5.3		0.17	I	
I	A-BCD	0.02	10.34	0.002		0.00	0.00	0.0		0.10	I	
I	D-AB	0.06	10.58	0.006		0.01	0.01	0.1		0.10	I	
I	D-BC	0.06	7.89	0.008		0.01	0.01	0.1		0.13	I	
I	C-ABD	0.15	10.34	0.014		0.01	0.01	0.2		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.094	0.003	0.004	0.001		0.009			I	
I	B-AD		0.077	0.005	0.020	0.005		0.008			I	
I	C-ABD		0.112	0.003		0.009					I	
I	D-AB		0.088	0.005	0.020	0.005		0.010			I	
I	D-BC		0.079	0.006	0.021	0.005		0.007			I	
I	A-BCD		0.112	0.003		0.009					I	

-----

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)
17.45-18.00									
B-CD	2.32	10.02	0.231		0.42	0.30	4.7		0.13
B-AD	1.71	8.19	0.209		0.35	0.27	4.1		0.15
A-BCD	0.01	10.47	0.001		0.00	0.00	0.0		0.10
D-AB	0.05	10.79	0.005		0.01	0.00	0.1		0.09
D-BC	0.05	8.13	0.006		0.01	0.01	0.1		0.12
C-ABD	0.12	10.46	0.011		0.01	0.01	0.2		0.10

EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:						
MARGINAL	LANE WIDTH	CAPACITY	PEDESTRIAN	START	END	DELAY
CHANGE:	(.1M)	MAJOR RD. WIDTH (.1M)	CENT RES WIDTH (.1M)	VIS TO LEFT (AHEAD FOR MAJOR) (M)	VIS TO LEFT (AHEAD FOR MAJOR) (M)	VISIBILITY TO RIGHT (M)
B-CD	0.097	0.003	0.004	0.001		0.009
B-AD	0.079	0.004	0.020	0.005		0.008
C-ABD	0.114	0.003		0.009		
D-AB	0.090	0.004	0.020	0.005		0.010
D-BC	0.082	0.005	0.021	0.005		0.008
A-BCD	0.114	0.003		0.009		

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)
18.00-18.15									
B-CD	1.93	10.27	0.188		0.30	0.23	3.6		0.12
B-AD	1.44	8.35	0.173		0.27	0.21	3.2		0.14
A-BCD	0.01	10.55	0.001		0.00	0.00	0.0		0.09
D-AB	0.04	10.94	0.004		0.00	0.00	0.1		0.09
D-BC	0.04	8.31	0.005		0.01	0.01	0.1		0.12
C-ABD	0.10	10.55	0.010		0.01	0.01	0.1		0.10

EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:						
MARGINAL	LANE WIDTH	CAPACITY	PEDESTRIAN	START	END	DELAY
CHANGE:	(.1M)	MAJOR RD. WIDTH (.1M)	CENT RES WIDTH (.1M)	VIS TO LEFT (AHEAD FOR MAJOR) (M)	VIS TO LEFT (AHEAD FOR MAJOR) (M)	VISIBILITY TO RIGHT (M)
B-CD	0.099	0.002	0.004	0.001		0.009
B-AD	0.081	0.003	0.020	0.005		0.008
C-ABD	0.115	0.002		0.009		
D-AB	0.091	0.003	0.020	0.005		0.010
D-BC	0.084	0.004	0.021	0.005		0.008
A-BCD	0.115	0.002		0.009		

QUEUE FOR STREAM B-CD

TIME SEGMENT	NO. OF VEHICLES IN QUEUE
17.00	0.2
17.15	0.3
17.30	0.4
17.45	0.4
18.00	0.3
18.15	0.2

QUEUE FOR STREAM B-AD

TIME SEGMENT	NO. OF VEHICLES IN QUEUE
17.00	0.2
17.15	0.3
17.30	0.3
17.45	0.4
18.00	0.3
18.15	0.2

QUEUE FOR STREAM A-BCD

TIME SEGMENT	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM D-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM D-BC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM C-ABD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I						
I	I	I	I	I	* DELAY *	I	* DELAY *	I						
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)						
I	I	(MIN/VEH)	I	(MIN)	(MIN/VEH)	I	(MIN/VEH)	I						
I	B-CD	I	213.1	I	142.0	I	28.2	I	0.13	I	28.2	I	0.13	I
I	B-AD	I	157.2	I	104.8	I	24.5	I	0.16	I	24.5	I	0.16	I
I	A-BCD	I	1.4	I	0.9	I	0.1	I	0.09	I	0.1	I	0.09	I
I	D-AB	I	4.8	I	3.2	I	0.4	I	0.09	I	0.4	I	0.09	I
I	D-BC	I	4.8	I	3.2	I	0.6	I	0.12	I	0.6	I	0.12	I
I	C-ABD	I	11.0	I	7.3	I	1.1	I	0.10	I	1.1	I	0.10	I
I	ALL	I	787.3	I	524.9	I	55.0	I	0.07	I	55.0	I	0.07	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 =====



TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

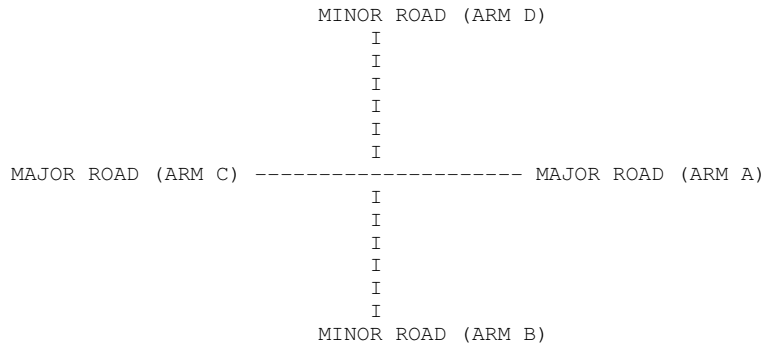
"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 4. B4030 Lower Heyford Rd - Port Way\2013 Base\AM\Site 4.Lower Heyford - Port Way 2013 Base AM.vpi"  
(drive-on-the-left ) at 09:01:20 on Wednesday, 11 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 4. Lower Heyford Rd - Port Way 2013 Base AM  
LOCATION: Oxfordshire  
DATE: 06/12/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: chris.morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----



ARM A IS Lower Heyford Road (E)  
ARM B IS Port Way (S)  
ARM C IS Lower Heyford Road (W)  
ARM D IS Port Way (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I	MINOR ROAD D	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.00 M.	I	( W ) 7.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I	(WCR ) 0.00 M.	I
I		I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I	(WA-D) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 150.0 M.	I	(VA-D) 150.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I	YES	I
I		I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 38.0 M.	I	(VD-A) 95.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 72.0 M.	I	(VD-C) 92.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I	(WD-A) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I	(WD-C) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I	8.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.50 M.	I	5.80 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	4.10 M.	I	4.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.70 M.	I	3.20 M.	I
I	- LENGTH OF FLARED SECTION	I	DERIVED: 1 PCU	I	2 VEHS	I

.SLOPES AND INTERCPET

(NB:Streams may be combined, in which case capacity will be adjusted )

B-C Stream

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	615.66	0.23	0.09	I

D-A Stream

I	Intercept For Stream D-A	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	I
I	627.24	0.23	0.09	I

B-A Stream

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream D-A	Slope For Opposing Stream D-B	I
I	483.33	0.21	0.21	0.21	0.21	I

I	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	I
I	0.08	0.13	0.30	0.11	I

D-C Stream

I	Intercept For Stream D-C	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream B-C	Slope For Opposing Stream B-D	I
I	510.47	0.22	0.22	0.22	0.22	I

I	Slope For Opposing Stream C-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream B-A	I
I	0.09	0.14	0.32	0.11	I

C-B Stream

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	I
I	660.83	0.24	0.35	I

A-D Stream

I	Intercept For Stream A-D	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	660.83	0.24	0.35	I

B-D Stream From Left Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream C-B	I
I	0.13	0.13		I

B-D Stream From Right Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream C-B	I
I	0.13	0.13		I

D-B Stream From Left Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.14	0.14		I

D-B Stream From Right Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream C-D	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.14	0.14		I

TRAFFIC DEMAND DATA

ARM	FLOW SCALE (%)
A	100
B	100
C	100
D	100

Demand set: Site 4. Lower Heyford Rd - Port Way 2013 Base AM

TIME PERIOD BEGINS 07.45 AND ENDS 09.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

ARM	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	TOP OF PEAK IS REACHED	FLOW STOPS FALLING	RATE OF FLOW (VEH/MIN) BEFORE PEAK	AT TOP OF PEAK	AFTER PEAK
ARM A	15.00	45.00	75.00	1.90	2.85	1.90
ARM B	15.00	45.00	75.00	1.02	1.54	1.02
ARM C	15.00	45.00	75.00	2.89	4.33	2.89
ARM D	15.00	45.00	75.00	0.30	0.45	0.30

TIME	TURNING PROPORTIONS				
	FROM/TO	ARM A	ARM B	ARM C	ARM D
07.45 - 09.15	ARM A	0.000	0.105	0.895	0.000
		( 0.0)	( 0.0)	( 0.0)	( 0.0)
	ARM B	0.537	0.000	0.415	0.049
		44.0	0.0	34.0	4.0
		( 0.0)	( 0.0)	( 0.0)	( 0.0)
	ARM C	0.762	0.238	0.000	0.000
		176.0	55.0	0.0	0.0
		( 0.0)	( 0.0)	( 0.0)	( 0.0)
	ARM D	0.083	0.833	0.083	0.000
		2.0	20.0	2.0	0.0
		( 0.0)	( 0.0)	( 0.0)	( 0.0)

TURNING PROPORTIONS ARE CALCULATED FROM TURNING COUNT DATA

QUEUE AND DELAY INFORMATION FOR EACH 15 MIN TIME SEGMENT

FOR COMBINED DEMAND SETS  
 AND FOR TIME PERIOD 1

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)
07.45-08.00									
B-CD	0.45	10.59	0.043		0.00	0.04	0.6		0.10
B-AD	0.58	8.15	0.071		0.00	0.08	1.1		0.13
A-BCD	0.00	9.30	0.000		0.00	0.00	0.0		0.00
D-AB	0.15	10.26	0.015		0.00	0.01	0.2		0.10
D-BC	0.15	8.17	0.018		0.00	0.02	0.3		0.12
C-ABD	0.69	10.55	0.065		0.00	0.07	1.0		0.10
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE:	LANE WIDTH (.1M)	WIDTH (.1M)	MAJOR RD. WIDTH (.1M)	CENT RES WIDTH (.1M)	VIS TO LEFT (AHEAD FOR MAJOR) (M)	VISIBILITY TO RIGHT (M)			
B-CD	0.103	0.002	0.002	0.001	0.001	0.010			
B-AD	0.077	0.005	0.021	0.005	0.008	0.008			
C-ABD	0.115	0.002		0.009					
D-AB	0.086	0.005	0.022	0.006	0.009	0.009			
D-BC	0.082	0.005	0.021	0.005	0.008	0.008			
A-BCD	0.111	0.004		0.009					

I	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)	I	
I	08.00-08.15										I	
I	B-CD	0.54	10.44	0.052		0.04	0.05	0.8		0.10	I	
I	B-AD	0.69	7.94	0.087		0.08	0.09	1.4		0.14	I	
I	A-BCD	0.00	9.16	0.000		0.00	0.00	0.0		0.00	I	
I	D-AB	0.18	10.02	0.018		0.01	0.02	0.3		0.10	I	
I	D-BC	0.18	7.97	0.022		0.02	0.02	0.3		0.13	I	
I	C-ABD	0.82	10.46	0.079		0.07	0.09	1.3		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.102	0.003	0.002	0.001		0.010			I	
I	B-AD		0.075	0.006	0.021	0.005		0.007			I	
I	C-ABD		0.114	0.003		0.009					I	
I	D-AB		0.084	0.006	0.022	0.005		0.009			I	
I	D-BC		0.080	0.006	0.021	0.005		0.007			I	
I	A-BCD		0.110	0.004		0.009					I	

I	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)	I	
I	08.15-08.30										I	
I	B-CD	0.66	10.23	0.065		0.05	0.07	1.0		0.10	I	
I	B-AD	0.84	7.64	0.110		0.09	0.12	1.8		0.15	I	
I	A-BCD	0.00	8.97	0.000		0.00	0.00	0.0		0.00	I	
I	D-AB	0.22	9.70	0.023		0.02	0.02	0.3		0.11	I	
I	D-BC	0.22	7.69	0.029		0.02	0.03	0.4		0.13	I	
I	C-ABD	1.01	10.33	0.098		0.09	0.11	1.7		0.11	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.100	0.003	0.002	0.001		0.009			I	
I	B-AD		0.073	0.007	0.021	0.005		0.007			I	
I	C-ABD		0.112	0.003		0.009					I	
I	D-AB		0.081	0.008	0.023	0.005		0.009			I	
I	D-BC		0.077	0.007	0.021	0.005		0.007			I	
I	A-BCD		0.107	0.005		0.009					I	

I	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)	I	
I	08.30-08.45										I	
I	B-CD	0.66	10.23	0.065		0.07	0.07	1.0		0.10	I	
I	B-AD	0.84	7.64	0.110		0.12	0.12	1.8		0.15	I	
I	A-BCD	0.00	8.97	0.000		0.00	0.00	0.0		0.00	I	
I	D-AB	0.22	9.70	0.023		0.02	0.02	0.3		0.11	I	
I	D-BC	0.22	7.69	0.029		0.03	0.03	0.4		0.13	I	
I	C-ABD	1.01	10.33	0.098		0.11	0.11	1.7		0.11	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.100	0.003	0.002	0.001		0.009			I	
I	B-AD		0.073	0.007	0.021	0.005		0.007			I	
I	C-ABD		0.112	0.003		0.009					I	
I	D-AB		0.081	0.008	0.023	0.005		0.009			I	
I	D-BC		0.077	0.007	0.021	0.005		0.007			I	
I	A-BCD		0.107	0.005		0.009					I	

I	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)	I
I	08.45-09.00										I
I	B-CD	0.54	10.44	0.052		0.07	0.06	0.8		0.10	I
I	B-AD	0.69	7.94	0.087		0.12	0.10	1.5		0.14	I
I	A-BCD	0.00	9.16	0.000		0.00	0.00	0.0		0.00	I
I	D-AB	0.18	10.02	0.018		0.02	0.02	0.3		0.10	I
I	D-BC	0.18	7.97	0.022		0.03	0.02	0.4		0.13	I
I	C-ABD	0.82	10.46	0.079		0.11	0.09	1.3		0.10	I

I	EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:						I
I	MAJOR RD. CENT RES VIS TO LEFT VISIBILITY						I
I	MARGINAL	LANE WIDTH	WIDTH	WIDTH	(AHEAD FOR MAJOR)	TO RIGHT	I
I	CHANGE:	(.1M)	(.1M)	(.1M)	(M)	(M)	I
I	B-CD	0.102	0.003	0.002	0.001	0.010	I
I	B-AD	0.075	0.006	0.021	0.005	0.007	I
I	C-ABD	0.114	0.003		0.009		I
I	D-AB	0.084	0.006	0.022	0.005	0.009	I
I	D-BC	0.080	0.006	0.021	0.005	0.007	I
I	A-BCD	0.110	0.004		0.009		I

I	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)	I
I	09.00-09.15										I
I	B-CD	0.45	10.59	0.043		0.06	0.05	0.7		0.10	I
I	B-AD	0.58	8.15	0.071		0.10	0.08	1.2		0.13	I
I	A-BCD	0.00	9.30	0.000		0.00	0.00	0.0		0.00	I
I	D-AB	0.15	10.25	0.015		0.02	0.02	0.2		0.10	I
I	D-BC	0.15	8.16	0.018		0.02	0.02	0.3		0.12	I
I	C-ABD	0.69	10.55	0.065		0.09	0.07	1.1		0.10	I

I	EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:						I
I	MAJOR RD. CENT RES VIS TO LEFT VISIBILITY						I
I	MARGINAL	LANE WIDTH	WIDTH	WIDTH	(AHEAD FOR MAJOR)	TO RIGHT	I
I	CHANGE:	(.1M)	(.1M)	(.1M)	(M)	(M)	I
I	B-CD	0.103	0.002	0.002	0.001	0.010	I
I	B-AD	0.077	0.005	0.021	0.005	0.008	I
I	C-ABD	0.115	0.002		0.009		I
I	D-AB	0.085	0.005	0.022	0.006	0.009	I
I	D-BC	0.082	0.005	0.021	0.005	0.008	I
I	A-BCD	0.111	0.004		0.009		I

QUEUE FOR STREAM B-CD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.0

QUEUE FOR STREAM B-AD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.1

QUEUE FOR STREAM A-BCD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

-----

QUEUE FOR STREAM D-AB

-----

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

-----

QUEUE FOR STREAM D-BC

-----

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

-----

QUEUE FOR STREAM C-ABD

-----

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.1

-----

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

-----

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	I	I	* DELAY *	I	* DELAY *	I		
I	I	I	I	I	I	I	I	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)	(MIN/VEH)	I
I	B-CD	I	49.8	I	33.2	I	5.0	I	0.10	I
I	B-AD	I	63.1	I	42.0	I	8.7	I	0.14	I
I	A-BCD	I	0.0	I	0.0	I	0.0	I	0.00	I
I	D-AB	I	16.6	I	11.0	I	1.7	I	0.10	I
I	D-BC	I	16.5	I	11.0	I	2.1	I	0.13	I
I	C-ABD	I	75.7	I	50.5	I	8.1	I	0.11	I
I	ALL	I	673.1	I	448.7	I	25.6	I	0.04	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

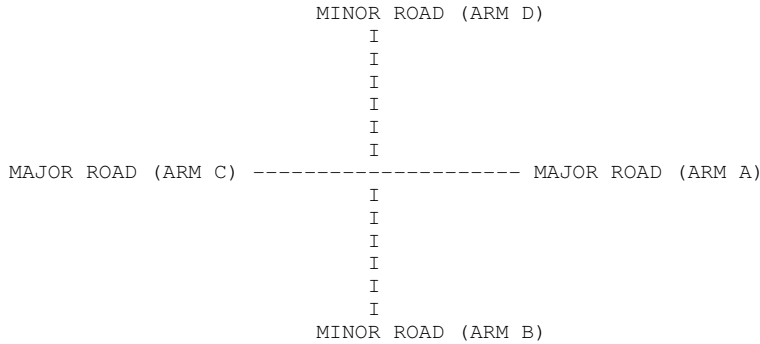
"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 4. B4030 Lower Heyford Rd - Port Way\2013 Base\PM\Site 4.Lower Heyford - Port Way 2013 Base PM.vpi"  
(drive-on-the-left ) at 09:04:28 on Wednesday, 11 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 4. Lower Heyford Rd - Port Way 2013 Base PM  
LOCATION: Oxfordshire  
DATE: 06/12/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: chris.morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----



ARM A IS Lower Heyford Road (E)  
ARM B IS Port Way (S)  
ARM C IS Lower Heyford Road (W)  
ARM D IS Port Way (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.



-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I	MINOR ROAD D	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.00 M.	I	( W ) 7.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I	(WCR ) 0.00 M.	I
I		I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I	(WA-D) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 150.0 M.	I	(VA-D) 150.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I	YES	I
I		I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 38.0 M.	I	(VD-A) 95.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 72.0 M.	I	(VD-C) 92.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I	(WD-A) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I	(WD-C) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I	8.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.50 M.	I	5.80 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	4.10 M.	I	4.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.70 M.	I	3.20 M.	I
I	- LENGTH OF FLARED SECTION	I	DERIVED: 1 PCU	I	2 VEHS	I

.SLOPES AND INTERCPET

(NB:Streams may be combined, in which case capacity will be adjusted )

B-C Stream

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	615.66	0.23	0.09	I

D-A Stream

I	Intercept For Stream D-A	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	I
I	627.24	0.23	0.09	I

B-A Stream

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream D-A	Slope For Opposing Stream D-B	I
I	483.33	0.21	0.21	0.21	0.21	I

I	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	I
I	0.08	0.13	0.30	0.11	I

D-C Stream

I	Intercept For Stream D-C	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream B-C	Slope For Opposing Stream B-D	I
I	510.47	0.22	0.22	0.22	0.22	I

I	Slope For Opposing Stream C-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream B-A	I
I	0.09	0.14	0.32	0.11	I

C-B Stream

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	I
I	660.83	0.24	0.35	I

A-D Stream

I	Intercept For Stream A-D	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	660.83	0.24	0.35	I

B-D Stream From Left Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream C-B	I
I	0.13	0.13		I

B-D Stream From Right Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream C-B	I
I	0.13	0.13		I

D-B Stream From Left Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.14	0.14		I

D-B Stream From Right Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream C-D	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.14	0.14		I

TRAFFIC DEMAND DATA

ARM	FLOW SCALE (%)
A	100
B	100
C	100
D	100

Demand set: Site 4. Lower Heyford Rd - Port Way 2013 Base PM

TIME PERIOD BEGINS 16.45 AND ENDS 18.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

ARM	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	TOP OF PEAK IS REACHED	FLOW STOPS FALLING	RATE OF FLOW (VEH/MIN) BEFORE PEAK	AT TOP OF PEAK	AFTER PEAK
ARM A	15.00	45.00	75.00	2.11	3.17	2.11
ARM B	15.00	45.00	75.00	3.79	5.68	3.79
ARM C	15.00	45.00	75.00	2.06	3.09	2.06
ARM D	15.00	45.00	75.00	0.11	0.17	0.11

TIME	TURNING PROPORTIONS (PERCENTAGE OF H.V.S)			
	ARM A	ARM B	ARM C	ARM D
16.45 - 18.15	0.000	0.000	0.994	0.006
	0.0	0.0	168.0	1.0
	0.383	0.000	0.515	0.102
	116.0	0.0	156.0	31.0
	0.758	0.061	0.000	0.182
	125.0	10.0	0.0	30.0
	0.111	0.667	0.222	0.000
	1.0	6.0	2.0	0.0

TURNING PROPORTIONS ARE CALCULATED FROM TURNING COUNT DATA

QUEUE AND DELAY INFORMATION FOR EACH 15 MIN TIME SEGMENT

FOR COMBINED DEMAND SETS AND FOR TIME PERIOD 1

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)
16.45-17.00									
B-CD	2.19	10.13	0.216		0.00	0.27	3.9		0.13
B-AD	1.62	8.24	0.196		0.00	0.24	3.5		0.15
A-BCD	0.01	10.49	0.001		0.00	0.00	0.0		0.10
D-AB	0.05	10.65	0.005		0.00	0.00	0.1		0.09
D-BC	0.06	8.19	0.008		0.00	0.01	0.1		0.12
C-ABD	0.13	10.49	0.012		0.00	0.01	0.2		0.10
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE:	LANE WIDTH (.1M)	WIDTH (.1M)	MAJOR RD. WIDTH (.1M)	CENT RES WIDTH (.1M)	VIS TO LEFT (AHEAD FOR MAJOR) (M)	VISIBILITY TO RIGHT (M)			
B-CD	0.098	0.003	0.004	0.001	0.009				
B-AD	0.080	0.004	0.020	0.005	0.008				
C-ABD	0.114	0.002		0.009					
D-AB	0.090	0.004	0.021	0.005	0.010				
D-BC	0.082	0.005	0.021	0.005	0.008				
A-BCD	0.114	0.002		0.009					

I	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)	I	
I	17.00-17.15										I	
I	B-CD	2.62	9.82	0.267		0.27	0.36	5.2		0.14	I	
I	B-AD	1.92	8.05	0.238		0.24	0.31	4.5		0.16	I	
I	A-BCD	0.01	10.39	0.001		0.00	0.00	0.0		0.10	I	
I	D-AB	0.06	10.48	0.006		0.00	0.01	0.1		0.10	I	
I	D-BC	0.07	7.97	0.009		0.01	0.01	0.1		0.13	I	
I	C-ABD	0.15	10.39	0.014		0.01	0.01	0.2		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.095	0.003	0.004	0.001		0.009			I	
I	B-AD		0.078	0.004	0.020	0.005		0.008			I	
I	C-ABD		0.113	0.003		0.009					I	
I	D-AB		0.088	0.005	0.021	0.005		0.010			I	
I	D-BC		0.079	0.006	0.021	0.005		0.007			I	
I	A-BCD		0.113	0.003		0.009					I	

I	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)	I	
I	17.15-17.30										I	
I	B-CD	3.22	9.35	0.345		0.36	0.52	7.5		0.16	I	
I	B-AD	2.34	7.76	0.301		0.31	0.42	6.1		0.18	I	
I	A-BCD	0.02	10.25	0.002		0.00	0.00	0.0		0.10	I	
I	D-AB	0.07	10.24	0.007		0.01	0.01	0.1		0.10	I	
I	D-BC	0.09	7.66	0.012		0.01	0.01	0.2		0.13	I	
I	C-ABD	0.18	10.25	0.018		0.01	0.02	0.3		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.092	0.004	0.004	0.001		0.008			I	
I	B-AD		0.076	0.005	0.020	0.005		0.007			I	
I	C-ABD		0.112	0.003		0.009					I	
I	D-AB		0.086	0.006	0.021	0.005		0.009			I	
I	D-BC		0.076	0.007	0.021	0.005		0.007			I	
I	A-BCD		0.112	0.003		0.009					I	

I	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)	I	
I	17.30-17.45										I	
I	B-CD	3.22	9.34	0.345		0.52	0.52	7.8		0.16	I	
I	B-AD	2.34	7.76	0.301		0.42	0.43	6.4		0.18	I	
I	A-BCD	0.02	10.25	0.002		0.00	0.00	0.0		0.10	I	
I	D-AB	0.07	10.24	0.007		0.01	0.01	0.1		0.10	I	
I	D-BC	0.09	7.66	0.012		0.01	0.01	0.2		0.13	I	
I	C-ABD	0.18	10.25	0.018		0.02	0.02	0.3		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.092	0.004	0.004	0.001		0.008			I	
I	B-AD		0.076	0.005	0.020	0.005		0.007			I	
I	C-ABD		0.112	0.003		0.009					I	
I	D-AB		0.086	0.006	0.021	0.005		0.009			I	
I	D-BC		0.076	0.007	0.021	0.005		0.007			I	
I	A-BCD		0.112	0.003		0.009					I	

I	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)	I	
I	17.45-18.00										I	
I	B-CD	2.62	9.82	0.267		0.52	0.37	5.7		0.14	I	
I	B-AD	1.92	8.05	0.238		0.43	0.32	4.9		0.16	I	
I	A-BCD	0.01	10.39	0.001		0.00	0.00	0.0		0.10	I	
I	D-AB	0.06	10.48	0.006		0.01	0.01	0.1		0.10	I	
I	D-BC	0.07	7.96	0.009		0.01	0.01	0.1		0.13	I	
I	C-ABD	0.15	10.39	0.014		0.02	0.01	0.2		0.10	I	
I	EFFECT ON CAPACITY (PCU/MIN) OF MAJOR RD. MARGINAL CHANGES IN:										I	
I	MARGINAL	LANE WIDTH	WIDTH	CENT RES	WIDTH	VIS TO LEFT	TO RIGHT	VISIBILITY				I
I	CHANGE:	(.1M)	(.1M)	(.1M)	(M)	(AHEAD FOR MAJOR)	(M)	(M)				I
I	B-CD	0.095	0.003	0.004	0.001	0.001	0.009				I	
I	B-AD	0.078	0.004	0.020	0.005	0.005	0.008				I	
I	C-ABD	0.113	0.003		0.009				I			
I	D-AB	0.088	0.005	0.021	0.005	0.010				I		
I	D-BC	0.079	0.006	0.021	0.005	0.007				I		
I	A-BCD	0.113	0.003		0.009				I			

I	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)	I	
I	18.00-18.15										I	
I	B-CD	2.19	10.12	0.216		0.37	0.28	4.3		0.13	I	
I	B-AD	1.62	8.24	0.196		0.32	0.25	3.8		0.15	I	
I	A-BCD	0.01	10.49	0.001		0.00	0.00	0.0		0.10	I	
I	D-AB	0.05	10.65	0.005		0.01	0.00	0.1		0.09	I	
I	D-BC	0.06	8.18	0.008		0.01	0.01	0.1		0.12	I	
I	C-ABD	0.13	10.49	0.012		0.01	0.01	0.2		0.10	I	
I	EFFECT ON CAPACITY (PCU/MIN) OF MAJOR RD. MARGINAL CHANGES IN:										I	
I	MARGINAL	LANE WIDTH	WIDTH	CENT RES	WIDTH	VIS TO LEFT	TO RIGHT	VISIBILITY				I
I	CHANGE:	(.1M)	(.1M)	(.1M)	(M)	(AHEAD FOR MAJOR)	(M)	(M)				I
I	B-CD	0.098	0.003	0.004	0.001	0.001	0.009				I	
I	B-AD	0.080	0.004	0.020	0.005	0.005	0.008				I	
I	C-ABD	0.114	0.002		0.009				I			
I	D-AB	0.090	0.004	0.021	0.005	0.010				I		
I	D-BC	0.082	0.005	0.021	0.005	0.008				I		
I	A-BCD	0.114	0.002		0.009				I			

QUEUE FOR STREAM B-CD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.3
17.15	0.4
17.30	0.5 *
17.45	0.5 *
18.00	0.4
18.15	0.3

QUEUE FOR STREAM B-AD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.2
17.15	0.3
17.30	0.4
17.45	0.4
18.00	0.3
18.15	0.2

QUEUE FOR STREAM A-BCD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM D-AB

---

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM D-BC

---

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM C-ABD

---

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

---

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	I	I	* DELAY *	I	* DELAY *	I		
I	I	I	I	I	I	I	I	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)	(MIN/VEH)	I
I	B-CD	I	240.9	I	160.6	I	34.5	I	0.14	I
I	B-AD	I	176.1	I	117.4	I	29.2	I	0.17	I
I	A-BCD	I	1.4	I	0.9	I	0.1	I	0.10	I
I	D-AB	I	5.5	I	3.7	I	0.5	I	0.10	I
I	D-BC	I	6.9	I	4.6	I	0.9	I	0.13	I
I	C-ABD	I	13.8	I	9.2	I	1.4	I	0.10	I
I	ALL	I	889.2	I	592.8	I	66.6	I	0.07	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 4. B4030 Lower Heyford Rd - Port Way\2013 Base + Gen\AM\  
Site 4.Lower Heyford - Port Way 2013 Base + Full Development AM.vpi"  
(drive-on-the-left ) at 15:20:22 on Monday, 30 July 2007

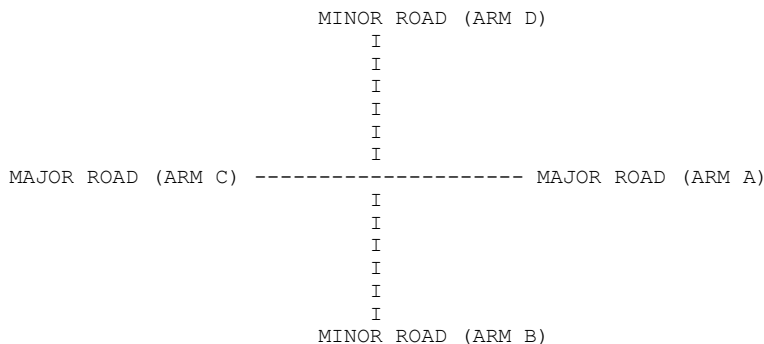
RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 4. Lower Heyford Rd - Port Way 2013 Base & Full Development AM  
LOCATION: Oxfordshire  
DATE: 30/07/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA

DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----



ARM A IS Lower Heyford Road (E)  
ARM B IS Port Way (S)  
ARM C IS Lower Heyford Road (W)  
ARM D IS Port Way (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I	MINOR ROAD D	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.00 M.	I	( W ) 7.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I	(WCR ) 0.00 M.	I
I		I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I	(WA-D) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 150.0 M.	I	(VA-D) 150.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I	YES	I
I		I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 38.0 M.	I	(VD-A) 95.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 72.0 M.	I	(VD-C) 92.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I	(WD-A) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I	(WD-C) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I	8.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.50 M.	I	5.80 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	4.10 M.	I	4.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.70 M.	I	3.20 M.	I
I	- LENGTH OF FLARED SECTION	I	DERIVED: 1 PCU	I	2 VEHS	I

.SLOPES AND INTERCPET

(NB:Streams may be combined, in which case capacity will be adjusted )

B-C Stream

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	615.66	0.23	0.09	I

D-A Stream

I	Intercept For Stream D-A	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	I
I	627.24	0.23	0.09	I

B-A Stream

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream D-A	Slope For Opposing Stream D-B	I
I	483.33	0.21	0.21	0.21	0.21	I

I	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	I
I	0.08	0.13	0.30	0.11	I

D-C Stream

I	Intercept For Stream D-C	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream B-C	Slope For Opposing Stream B-D	I
I	510.47	0.22	0.22	0.22	0.22	I

I	Slope For Opposing Stream C-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream B-A	I
I	0.09	0.14	0.32	0.11	I

C-B Stream

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	I
I	660.83	0.24	0.35	I



A-D Stream

I	Intercept For Stream A-D	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	660.83	0.24	0.35	I

B-D Stream From Left Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream C-B	I
I	0.13	0.13		I

B-D Stream From Right Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream C-B	I
I	0.13	0.13		I

D-B Stream From Left Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.14	0.14		I

D-B Stream From Right Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream C-D	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.14	0.14		I

TRAFFIC DEMAND DATA

ARM	FLOW SCALE (%)
A	100
B	100
C	100
D	100

Demand set: Site 4. Lower Heyford Rd - Port Way 2013 Base AM

TIME PERIOD BEGINS 07.45 AND ENDS 09.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

ARM	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	TOP OF PEAK IS REACHED	FLOW STOPS FALLING	RATE OF FLOW (VEH/MIN) BEFORE PEAK	AT TOP OF PEAK	AFTER PEAK
ARM A	15.00	45.00	75.00	1.90	2.85	1.90
ARM B	15.00	45.00	75.00	1.69	2.53	1.69
ARM C	15.00	45.00	75.00	2.89	4.33	2.89
ARM D	15.00	45.00	75.00	1.29	1.93	1.29

TIME	TURNING PROPORTIONS				
	FROM/TO	ARM A	ARM B	ARM C	ARM D
07.45 - 09.15	ARM A	0.000	0.105	0.895	0.000
		( 0.0)	( 0.0)	( 0.0)	( 0.0)
	ARM B	0.326	0.000	0.252	0.422
		44.0	0.0	34.0	57.0
		( 0.0)	( 0.0)	( 0.0)	( 0.0)
	ARM C	0.762	0.238	0.000	0.000
		176.0	55.0	0.0	0.0
		( 0.0)	( 0.0)	( 0.0)	( 0.0)
	ARM D	0.019	0.961	0.019	0.000
		2.0	99.0	2.0	0.0
		( 0.0)	( 0.0)	( 0.0)	( 0.0)

TURNING PROPORTIONS ARE CALCULATED FROM TURNING COUNT DATA

QUEUE AND DELAY INFORMATION FOR EACH 15 MIN TIME SEGMENT

FOR COMBINED DEMAND SETS  
 AND FOR TIME PERIOD 1

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)
07.45-08.00									
B-CD	0.81	9.72	0.083		0.00	0.09	1.3		0.11
B-AD	0.88	7.45	0.118		0.00	0.13	1.9		0.15
A-BCD	0.00	9.30	0.000		0.00	0.00	0.0		0.00
D-AB	0.65	9.79	0.066		0.00	0.07	1.0		0.11
D-BC	0.64	8.18	0.079		0.00	0.08	1.2		0.13
C-ABD	0.69	10.55	0.065		0.00	0.07	1.0		0.10

EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:

MARGINAL CHANGE:	LANE WIDTH (.1M)	MAJOR RD. WIDTH (.1M)	CENT RES WIDTH (.1M)	VIS TO LEFT (AHEAD FOR MAJOR) (M)	VISIBILITY TO RIGHT (M)
B-CD	0.088	0.004	0.014	0.003	0.009
B-AD	0.076	0.005	0.019	0.005	0.007
C-ABD	0.115	0.002		0.009	
D-AB	0.082	0.005	0.024	0.006	0.009
D-BC	0.082	0.005	0.021	0.005	0.008
A-BCD	0.111	0.004		0.009	

I	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)	I
I	08.00-08.15										I
I	B-CD	0.98	9.47	0.103		0.09	0.11	1.7		0.12	I
I	B-AD	1.05	7.22	0.145		0.13	0.17	2.4		0.16	I
I	A-BCD	0.00	9.16	0.000		0.00	0.00	0.0		0.00	I
I	D-AB	0.77	9.52	0.081		0.07	0.09	1.3		0.11	I
I	D-BC	0.77	7.98	0.096		0.08	0.11	1.5		0.14	I
I	C-ABD	0.82	10.46	0.079		0.07	0.09	1.3		0.10	I
I	EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:										
I	MARGINAL	LANE WIDTH	CAPACITY	PEDESTRIAN	CENT RES	VIS TO LEFT	VISIBILITY				
I	CHANGE:	(.1M)	MAJOR RD. WIDTH (.1M)	WIDTH (.1M)	(M)	(AHEAD FOR MAJOR)	TO RIGHT (M)				
I	B-CD	0.086	0.005	0.014	0.003	0.009					
I	B-AD	0.074	0.006	0.019	0.005	0.007					
I	C-ABD	0.114	0.003	0.009							
I	D-AB	0.079	0.006	0.024	0.006	0.009					
I	D-BC	0.080	0.006	0.021	0.005	0.007					
I	A-BCD	0.110	0.004	0.009							

I	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)	I
I	08.15-08.30										I
I	B-CD	1.21	9.11	0.133		0.11	0.15	2.2		0.13	I
I	B-AD	1.27	6.90	0.184		0.17	0.22	3.2		0.18	I
I	A-BCD	0.00	8.97	0.000		0.00	0.00	0.0		0.00	I
I	D-AB	0.95	9.15	0.104		0.09	0.11	1.7		0.12	I
I	D-BC	0.94	7.71	0.122		0.11	0.14	2.0		0.15	I
I	C-ABD	1.01	10.33	0.098		0.09	0.11	1.7		0.11	I
I	EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:										
I	MARGINAL	LANE WIDTH	CAPACITY	PEDESTRIAN	CENT RES	VIS TO LEFT	VISIBILITY				
I	CHANGE:	(.1M)	MAJOR RD. WIDTH (.1M)	WIDTH (.1M)	(M)	(AHEAD FOR MAJOR)	TO RIGHT (M)				
I	B-CD	0.083	0.006	0.015	0.003	0.008					
I	B-AD	0.071	0.008	0.019	0.004	0.007					
I	C-ABD	0.112	0.003	0.009							
I	D-AB	0.076	0.008	0.024	0.006	0.008					
I	D-BC	0.078	0.007	0.021	0.005	0.007					
I	A-BCD	0.107	0.005	0.009							

I	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)	I
I	08.30-08.45										I
I	B-CD	1.21	9.11	0.133		0.15	0.15	2.3		0.13	I
I	B-AD	1.27	6.90	0.184		0.22	0.22	3.3		0.18	I
I	A-BCD	0.00	8.97	0.000		0.00	0.00	0.0		0.00	I
I	D-AB	0.95	9.15	0.104		0.11	0.12	1.7		0.12	I
I	D-BC	0.94	7.71	0.122		0.14	0.14	2.1		0.15	I
I	C-ABD	1.01	10.33	0.098		0.11	0.11	1.7		0.11	I
I	EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:										
I	MARGINAL	LANE WIDTH	CAPACITY	PEDESTRIAN	CENT RES	VIS TO LEFT	VISIBILITY				
I	CHANGE:	(.1M)	MAJOR RD. WIDTH (.1M)	WIDTH (.1M)	(M)	(AHEAD FOR MAJOR)	TO RIGHT (M)				
I	B-CD	0.083	0.006	0.015	0.003	0.008					
I	B-AD	0.071	0.008	0.019	0.004	0.007					
I	C-ABD	0.112	0.003	0.009							
I	D-AB	0.076	0.008	0.024	0.006	0.008					
I	D-BC	0.078	0.007	0.021	0.005	0.007					
I	A-BCD	0.107	0.005	0.009							

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)
08.45-09.00									
B-CD	0.98	9.46	0.103		0.15	0.12	1.8		0.12
B-AD	1.05	7.22	0.145		0.22	0.17	2.6		0.16
A-BCD	0.00	9.16	0.000		0.00	0.00	0.0		0.00
D-AB	0.77	9.52	0.081		0.12	0.09	1.4		0.11
D-BC	0.77	7.98	0.096		0.14	0.11	1.7		0.14
C-ABD	0.82	10.46	0.079		0.11	0.09	1.3		0.10

MARGINAL CHANGE:	LANE WIDTH (.1M)	CAPACITY MAJOR RD. WIDTH (.1M)	PEDESTRIAN CENT RES WIDTH (.1M)	MARGINAL CHANGES VIS TO LEFT (AHEAD FOR MAJOR) (M)	IN: VISIBILITY TO RIGHT (M)
B-CD	0.086	0.005	0.014	0.003	0.009
B-AD	0.074	0.006	0.019	0.005	0.007
C-ABD	0.114	0.003		0.009	
D-AB	0.079	0.006	0.024	0.006	0.009
D-BC	0.080	0.006	0.021	0.005	0.007
A-BCD	0.110	0.004		0.009	

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)
09.00-09.15									
B-CD	0.81	9.72	0.084		0.12	0.09	1.4		0.11
B-AD	0.88	7.45	0.118		0.17	0.14	2.1		0.15
A-BCD	0.00	9.30	0.000		0.00	0.00	0.0		0.00
D-AB	0.65	9.79	0.066		0.09	0.07	1.1		0.11
D-BC	0.64	8.18	0.079		0.11	0.09	1.3		0.13
C-ABD	0.69	10.55	0.065		0.09	0.07	1.1		0.10

MARGINAL CHANGE:	LANE WIDTH (.1M)	CAPACITY MAJOR RD. WIDTH (.1M)	PEDESTRIAN CENT RES WIDTH (.1M)	MARGINAL CHANGES VIS TO LEFT (AHEAD FOR MAJOR) (M)	IN: VISIBILITY TO RIGHT (M)
B-CD	0.088	0.004	0.014	0.003	0.009
B-AD	0.076	0.005	0.019	0.005	0.007
C-ABD	0.115	0.002		0.009	
D-AB	0.082	0.005	0.024	0.006	0.009
D-BC	0.082	0.005	0.021	0.005	0.008
A-BCD	0.111	0.004		0.009	

QUEUE FOR STREAM B-CD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.2
08.45	0.2
09.00	0.1
09.15	0.1

QUEUE FOR STREAM B-AD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.2
08.30	0.2
08.45	0.2
09.00	0.2
09.15	0.1

QUEUE FOR STREAM A-BCD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM D-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.1

QUEUE FOR STREAM D-BC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.1

QUEUE FOR STREAM C-ABD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.1

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I	
I		I	(VEH)	I	(MIN)	I	(MIN)	I	
I		I	(VEH/H)	I	(MIN/VEH)	I	(MIN/VEH)	I	
I	B-CD	I	89.9	I	60.0	I	10.7	I	0.12
I	B-AD	I	95.9	I	63.9	I	15.7	I	0.16
I	A-BCD	I	0.0	I	0.0	I	0.0	I	0.00
I	D-AB	I	71.2	I	47.4	I	8.2	I	0.12
I	D-BC	I	70.6	I	47.1	I	9.8	I	0.14
I	C-ABD	I	75.7	I	50.5	I	8.1	I	0.11
I	ALL	I	854.8	I	569.8	I	52.4	I	0.06

\* 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 =====



-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I	MINOR ROAD D	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.00 M.	I	( W ) 7.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I	(WCR ) 0.00 M.	I
I		I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I	(WA-D) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 150.0 M.	I	(VA-D) 150.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I	YES	I
I		I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 38.0 M.	I	(VD-A) 95.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 72.0 M.	I	(VD-C) 92.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I	(WD-A) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I	(WD-C) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I	8.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.50 M.	I	5.80 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	4.10 M.	I	4.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.70 M.	I	3.20 M.	I
I	- LENGTH OF FLARED SECTION	I	DERIVED: 1 PCU	I	2 VEHS	I

.SLOPES AND INTERCPET

(NB:Streams may be combined, in which case capacity will be adjusted )

B-C Stream

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	615.66	0.23	0.09	I

D-A Stream

I	Intercept For Stream D-A	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	I
I	627.24	0.23	0.09	I

B-A Stream

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream D-A	Slope For Opposing Stream D-B	I
I	483.33	0.21	0.21	0.21	0.21	I

I	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	I
I	0.08	0.13	0.30	0.11	I

D-C Stream

I	Intercept For Stream D-C	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream B-C	Slope For Opposing Stream B-D	I
I	510.47	0.22	0.22	0.22	0.22	I

I	Slope For Opposing Stream C-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream B-A	I
I	0.09	0.14	0.32	0.11	I

C-B Stream

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	I
I	660.83	0.24	0.35	I

A-D Stream

I	Intercept For Stream A-D	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	660.83	0.24	0.35	I

B-D Stream From Left Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.13	0.13			I

B-D Stream From Right Hand Lane

I	Intercept For Stream B-D	Slope For Opposing Stream A-C	Slope For Opposing Stream A-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	483.33	0.21	0.21	0.08	0.30	I

I	Slope For Opposing Stream C-A	Slope For Opposing Stream C-D	Slope For Opposing Stream A-B	Slope For Opposing Stream C-B	I
I	0.13	0.13			I

D-B Stream From Left Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream D-C	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream D-C	Slope For Opposing Stream A-D	I
I	0.14	0.14			I

D-B Stream From Right Hand Lane

I	Intercept For Stream D-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	Slope For Opposing Stream C-D	Slope For Opposing Stream A-D	I
I	510.47	0.22	0.22	0.09	0.32	I

I	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-D	Slope For Opposing Stream A-D	I
I	0.14	0.14			I

TRAFFIC DEMAND DATA



ARM	FLOW SCALE (%)
A	100
B	100
C	100
D	100

Demand set: Site 4. Lower Heyford Rd - Port Way 2013 Base AM

TIME PERIOD BEGINS 07.45 AND ENDS 09.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

ARM	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	TOP OF PEAK IS REACHED	FLOW STOPS FALLING	RATE OF FLOW (VEH/MIN) BEFORE PEAK	AT TOP OF PEAK	AFTER PEAK
ARM A	15.00	45.00	75.00	2.11	3.17	2.11
ARM B	15.00	45.00	75.00	4.63	6.94	4.63
ARM C	15.00	45.00	75.00	2.06	3.09	2.06
ARM D	15.00	45.00	75.00	0.89	1.33	0.89

TIME	TURNING PROPORTIONS			
	ARM A	ARM B	ARM C	ARM D
07.45 - 09.15	0.000	0.000	0.994	0.006
	0.0	0.0	168.0	1.0
	(0.0)	(0.0)	(0.0)	(0.0)
	0.314	0.000	0.422	0.265
	116.0	0.0	156.0	98.0
	(0.0)	(0.0)	(0.0)	(0.0)
	0.758	0.061	0.000	0.182
	125.0	10.0	0.0	30.0
	(0.0)	(0.0)	(0.0)	(0.0)
	0.014	0.958	0.028	0.000
	1.0	68.0	2.0	0.0
	(0.0)	(0.0)	(0.0)	(0.0)

TURNING PROPORTIONS ARE CALCULATED FROM TURNING COUNT DATA

QUEUE AND DELAY INFORMATION FOR EACH 15 MIN TIME SEGMENT

FOR COMBINED DEMAND SETS  
 AND FOR TIME PERIOD 1

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)
07.45-08.00									
B-CD	2.68	9.15	0.293		0.00	0.41	5.8		0.15
B-AD	1.96	8.27	0.237		0.00	0.31	4.4		0.16
A-BCD	0.01	10.49	0.001		0.00	0.00	0.0		0.10
D-AB	0.44	10.09	0.044		0.00	0.05	0.7		0.10
D-BC	0.45	8.35	0.054		0.00	0.06	0.8		0.13
C-ABD	0.13	10.49	0.012		0.00	0.01	0.2		0.10
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE:	LANE WIDTH (.1M)	WIDTH (.1M)	MAJOR RD. WIDTH (.1M)	CENT RES WIDTH (.1M)	VIS TO LEFT (AHEAD FOR MAJOR) (M)	VISIBILITY TO RIGHT (M)			
B-CD	0.092	0.003	0.008	0.002	0.008				
B-AD	0.078	0.005	0.021	0.005	0.008				
C-ABD	0.114	0.002		0.009					
D-AB	0.084	0.004	0.024	0.006	0.009				
D-BC	0.084	0.004	0.021	0.005	0.008				
A-BCD	0.114	0.002		0.009					

-----

I	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)	I	
I	08.00-08.15										I	
I	B-CD	3.23	8.77	0.368		0.41	0.57	8.3		0.18	I	
I	B-AD	2.31	7.96	0.291		0.31	0.40	5.9		0.18	I	
I	A-BCD	0.01	10.39	0.001		0.00	0.00	0.0		0.10	I	
I	D-AB	0.53	9.88	0.053		0.05	0.06	0.8		0.11	I	
I	D-BC	0.54	8.19	0.066		0.06	0.07	1.0		0.13	I	
I	C-ABD	0.15	10.39	0.014		0.01	0.01	0.2		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.089	0.003	0.008	0.002		0.008			I	
I	B-AD		0.077	0.005	0.021	0.005		0.008			I	
I	C-ABD		0.113	0.003		0.009					I	
I	D-AB		0.082	0.005	0.024	0.006		0.009			I	
I	D-BC		0.082	0.005	0.021	0.005		0.008			I	
I	A-BCD		0.113	0.003		0.009					I	

-----

I	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)	I	
I	08.15-08.30										I	
I	B-CD	4.01	8.16	0.491		0.57	0.94	13.3		0.24	I	
I	B-AD	2.78	7.37	0.377		0.40	0.59	8.5		0.22	I	
I	A-BCD	0.02	10.25	0.002		0.00	0.00	0.0		0.10	I	
I	D-AB	0.65	9.60	0.067		0.06	0.07	1.1		0.11	I	
I	D-BC	0.66	7.96	0.083		0.07	0.09	1.3		0.14	I	
I	C-ABD	0.18	10.25	0.018		0.01	0.02	0.3		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.086	0.004	0.009	0.002		0.007			I	
I	B-AD		0.074	0.007	0.021	0.005		0.007			I	
I	C-ABD		0.112	0.003		0.009					I	
I	D-AB		0.080	0.006	0.024	0.006		0.009			I	
I	D-BC		0.080	0.006	0.021	0.005		0.007			I	
I	A-BCD		0.112	0.003		0.009					I	

-----

I	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)	I	
I	08.30-08.45										I	
I	B-CD	4.01	8.15	0.492		0.94	0.95	14.2		0.24	I	
I	B-AD	2.78	7.36	0.378		0.59	0.60	9.0		0.22	I	
I	A-BCD	0.02	10.25	0.002		0.00	0.00	0.0		0.10	I	
I	D-AB	0.65	9.60	0.067		0.07	0.07	1.1		0.11	I	
I	D-BC	0.66	7.96	0.083		0.09	0.09	1.3		0.14	I	
I	C-ABD	0.18	10.25	0.018		0.02	0.02	0.3		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I		MARGINAL	LANE WIDTH	MAJOR RD. WIDTH	CENT RES WIDTH	VIS TO LEFT (AHEAD FOR MAJOR)		VISIBILITY TO RIGHT			I	
I		CHANGE:	(.1M)	(.1M)	(.1M)	(M)		(M)			I	
I											I	
I	B-CD		0.086	0.004	0.009	0.002		0.007			I	
I	B-AD		0.074	0.007	0.021	0.005		0.007			I	
I	C-ABD		0.112	0.003		0.009					I	
I	D-AB		0.080	0.006	0.024	0.006		0.009			I	
I	D-BC		0.080	0.006	0.021	0.005		0.007			I	
I	A-BCD		0.112	0.003		0.009					I	

-----

I	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)	I	
I	08.45-09.00										I	
I	B-CD	3.23	8.75	0.369		0.95	0.60	9.4		0.18	I	
I	B-AD	2.31	7.95	0.291		0.60	0.42	6.5		0.18	I	
I	A-BCD	0.01	10.39	0.001		0.00	0.00	0.0		0.10	I	
I	D-AB	0.53	9.88	0.053		0.07	0.06	0.9		0.11	I	
I	D-BC	0.54	8.19	0.066		0.09	0.07	1.1		0.13	I	
I	C-ABD	0.15	10.39	0.014		0.02	0.01	0.2		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I			MAJOR RD.	CENT RES	VIS TO LEFT	VISIBILITY					I	
I	MARGINAL	LANE WIDTH	WIDTH	WIDTH	(AHEAD FOR MAJOR)	TO RIGHT					I	
I	CHANGE:	(.1M)	(.1M)	(.1M)	(M)	(M)					I	
I											I	
I	B-CD	0.089	0.003	0.008	0.002	0.008					I	
I	B-AD	0.077	0.005	0.021	0.005	0.008					I	
I	C-ABD	0.113	0.003		0.009						I	
I	D-AB	0.082	0.005	0.024	0.006	0.009					I	
I	D-BC	0.082	0.005	0.021	0.005	0.008					I	
I	A-BCD	0.113	0.003		0.009						I	

I	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)	I	
I	09.00-09.15										I	
I	B-CD	2.68	9.13	0.294		0.60	0.42	6.5		0.16	I	
I	B-AD	1.96	8.26	0.237		0.42	0.32	4.9		0.16	I	
I	A-BCD	0.01	10.49	0.001		0.00	0.00	0.0		0.10	I	
I	D-AB	0.44	10.09	0.044		0.06	0.05	0.7		0.10	I	
I	D-BC	0.45	8.35	0.054		0.07	0.06	0.9		0.13	I	
I	C-ABD	0.13	10.49	0.012		0.01	0.01	0.2		0.10	I	
I											I	
I		EFFECT ON CAPACITY (PCU/MIN) OF					MARGINAL CHANGES IN:					I
I			MAJOR RD.	CENT RES	VIS TO LEFT	VISIBILITY					I	
I	MARGINAL	LANE WIDTH	WIDTH	WIDTH	(AHEAD FOR MAJOR)	TO RIGHT					I	
I	CHANGE:	(.1M)	(.1M)	(.1M)	(M)	(M)					I	
I											I	
I	B-CD	0.092	0.003	0.008	0.002	0.008					I	
I	B-AD	0.078	0.005	0.021	0.005	0.008					I	
I	C-ABD	0.114	0.002		0.009						I	
I	D-AB	0.084	0.004	0.024	0.006	0.009					I	
I	D-BC	0.084	0.004	0.021	0.005	0.008					I	
I	A-BCD	0.114	0.002		0.009						I	

QUEUE FOR STREAM B-CD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.4
08.15	0.6 *
08.30	0.9 *
08.45	1.0 *
09.00	0.6 *
09.15	0.4

QUEUE FOR STREAM B-AD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.3
08.15	0.4
08.30	0.6 *
08.45	0.6 *
09.00	0.4
09.15	0.3

QUEUE FOR STREAM A-BCD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM D-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.0

QUEUE FOR STREAM D-BC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.1

QUEUE FOR STREAM C-ABD

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I						
I	I	I	I	I	* DELAY *	I	* DELAY *	I						
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)						
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)						
I	B-CD	I	297.6	I	198.4	I	57.5	I	0.19	I	57.5	I	0.19	I
I	B-AD	I	211.7	I	141.1	I	39.1	I	0.18	I	39.1	I	0.18	I
I	A-BCD	I	1.4	I	0.9	I	0.1	I	0.10	I	0.1	I	0.10	I
I	D-AB	I	48.4	I	32.3	I	5.2	I	0.11	I	5.2	I	0.11	I
I	D-BC	I	49.3	I	32.9	I	6.5	I	0.13	I	6.5	I	0.13	I
I	C-ABD	I	13.8	I	9.2	I	1.4	I	0.10	I	1.4	I	0.10	I
I	ALL	I	1066.7	I	711.2	I	109.7	I	0.10	I	109.7	I	0.10	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 9. Ardley Rd - Unnamed Rd\2006 base\AM\Site 9. Ardley Rd - Unnamed Rd 2006 Base AM.vpi"  
(drive-on-the-left ) at 09:37:24 on Wednesday, 11 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 9. Ardley Rd - Unnamed Rd 2006 Base AM  
LOCATION: Oxfordshire  
DATE: 09/11/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Ardley Rd (S)  
ARM B IS Unnamed Rd (W)  
ARM C IS Ardley Rd (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.80 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 3.40 M.	I
I	- VISIBILITY	I	(VC-B) 100.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 100.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 100.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	9.10 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.90 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.50 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	631.87	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	515.84	0.22	0.09	0.14	0.31	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	714.40	0.26	0.26	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	08.15-08.30										I
I	B-C	0.55	11.23	0.049		0.04	0.05	0.8		0.09	I
I	B-A	0.00	5.66	0.000		0.00	0.00	0.0		0.00	I
I	C-AB	1.32	10.53	0.125		0.11	0.14	2.1		0.11	I
I	A-B	0.09									I
I	A-C	5.30									I

I	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)	I
I	08.30-08.45										I
I	B-C	0.55	11.23	0.049		0.05	0.05	0.8		0.09	I
I	B-A	0.00	5.66	0.000		0.00	0.00	0.0		0.00	I
I	C-AB	1.32	10.53	0.125		0.14	0.14	2.2		0.11	I
I	A-B	0.09									I
I	A-C	5.30									I

I	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)	I
I	08.45-09.00										I
I	B-C	0.45	11.50	0.039		0.05	0.04	0.6		0.09	I
I	B-A	0.00	6.19	0.000		0.00	0.00	0.0		0.00	I
I	C-AB	1.08	10.78	0.100		0.14	0.11	1.7		0.10	I
I	A-B	0.07									I
I	A-C	4.33									I

I	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)	I
I	09.00-09.15										I
I	B-C	0.38	11.69	0.032		0.04	0.03	0.5		0.09	I
I	B-A	0.00	6.57	0.000		0.00	0.00	0.0		0.00	I
I	C-AB	0.90	10.97	0.082		0.11	0.09	1.4		0.10	I
I	A-B	0.06									I
I	A-C	3.63									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.1
08.45	0.1
09.00	0.0
09.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0



QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.1

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	I			I			I	(MIN/VEH)		
I	B-C	I	41.3	I	27.5	I	3.7	I	0.09	I
I	B-A	I	0.0	I	0.0	I	0.00	I	0.00	I
I	C-AB	I	99.1	I	66.1	I	10.3	I	0.10	I
I	A-B	I	6.9	I	4.6	I		I		I
I	A-C	I	397.8	I	265.2	I		I		I
I	ALL	I	1253.9	I	835.9	I	14.1	I	0.01	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 9. Ardley Rd - Unnamed Rd\2006 base\PM\Site 9. Ardley Rd - Unnamed Rd 2006 Base PM.vpi"  
(drive-on-the-left ) at 09:42:55 on Wednesday, 11 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 9. Ardley Rd - Unnamed Rd 2006 Base PM  
LOCATION: Oxfordshire  
DATE: 09/11/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Ardley Rd (S)  
ARM B IS Unnamed Rd (W)  
ARM C IS Ardley Rd (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.80 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 3.40 M.	I
I	- VISIBILITY	I	(VC-B) 100.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 100.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 100.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	9.10 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.90 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.50 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	631.87	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	515.84	0.22	0.09	0.14	0.31	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	714.40	0.26	0.26	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



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)
17.15-17.30									
B-C	0.79	10.59	0.075		0.06	0.08	1.2		0.10
B-A	0.02	6.70	0.003		0.00	0.00	0.0		0.15
C-AB	0.37	9.96	0.037		0.03	0.04	0.6		0.10
A-B	0.00								
A-C	7.62								

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)
17.30-17.45									
B-C	0.79	10.59	0.075		0.08	0.08	1.2		0.10
B-A	0.02	6.70	0.003		0.00	0.00	0.0		0.15
C-AB	0.37	9.96	0.037		0.04	0.04	0.6		0.10
A-B	0.00								
A-C	7.62								

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)
17.45-18.00									
B-C	0.64	10.97	0.059		0.08	0.06	1.0		0.10
B-A	0.01	7.20	0.002		0.00	0.00	0.0		0.14
C-AB	0.30	10.32	0.029		0.04	0.03	0.4		0.10
A-B	0.00								
A-C	6.22								

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)
18.00-18.15									
B-C	0.54	11.24	0.048		0.06	0.05	0.8		0.09
B-A	0.01	7.56	0.002		0.00	0.00	0.0		0.13
C-AB	0.25	10.58	0.024		0.03	0.02	0.4		0.10
A-B	0.00								
A-C	5.21								

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.1
17.15	0.1
17.30	0.1
17.45	0.1
18.00	0.1
18.15	0.1

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	I			I			I	(MIN/VEH)		
I	B-C	I	59.2	I	39.5	I	5.8	I	0.10	I
I	B-A	I	1.4	I	0.9	I	0.2	I	0.14	I
I	C-AB	I	27.5	I	18.4	I	2.8	I	0.10	I
I	A-B	I	0.0	I	0.0	I		I		I
I	A-C	I	571.2	I	380.8	I		I		I
I	ALL	I	1036.4	I	691.0	I	8.7	I	0.01	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 9. Ardley Rd - Unnamed Rd\2013 Base\AM\Site 9. Ardley Rd - Unnamed Rd 2013 Base AM.vpi"  
(drive-on-the-left) at 13:59:22 on Tuesday, 7 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 9. Ardley Rd - Unnamed Rd 2013 Base AM  
LOCATION: Oxfordshire  
DATE: 07/08/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Ardley Rd (S)  
ARM B IS Unnamed Rd (W)  
ARM C IS Ardley Rd (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.80 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 3.40 M.	I
I	- VISIBILITY	I	(VC-B) 100.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 100.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 100.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	9.10 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.90 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.50 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	631.87	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	515.84	0.22	0.09	0.14	0.31	I

I	Intercept For Stream C-B	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	714.40	0.26	0.26	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----





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)
08.15-08.30									
B-C	0.61	11.05	0.055		0.05	0.06	0.8		0.10
B-A	0.00	5.30	0.000		0.00	0.00	0.0		0.00
C-AB	1.49	10.36	0.144		0.13	0.17	2.5		0.11
A-B	0.11								
A-C	5.96								

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)
08.30-08.45									
B-C	0.61	11.05	0.055		0.06	0.06	0.9		0.10
B-A	0.00	5.30	0.000		0.00	0.00	0.0		0.00
C-AB	1.49	10.36	0.144		0.17	0.17	2.5		0.11
A-B	0.11								
A-C	5.96								

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)
08.45-09.00									
B-C	0.49	11.35	0.044		0.06	0.05	0.7		0.09
B-A	0.00	5.89	0.000		0.00	0.00	0.0		0.00
C-AB	1.21	10.64	0.114		0.17	0.13	1.9		0.11
A-B	0.09								
A-C	4.87								

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)
09.00-09.15									
B-C	0.41	11.57	0.036		0.05	0.04	0.6		0.09
B-A	0.00	6.32	0.000		0.00	0.00	0.0		0.00
C-AB	1.02	10.85	0.094		0.13	0.10	1.6		0.10
A-B	0.08								
A-C	4.08								

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.1
08.45	0.1
09.00	0.0
09.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.2
08.45	0.2
09.00	0.1
09.15	0.1

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	I	I	* DELAY *	I	* DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	I	(MIN/VEH)	I	(MIN)	(MIN/VEH)	I	(MIN)	(MIN/VEH)		
I	B-C	I	45.4	I	30.3	I	4.2	I	0.09	I
I	B-A	I	0.0	I	0.0	I	0.0	I	0.00	I
I	C-AB	I	111.5	I	74.3	I	12.0	I	0.11	I
I	A-B	I	8.3	I	5.5	I		I		I
I	A-C	I	447.3	I	298.2	I		I		I
I	ALL	I	1410.8	I	940.6	I	16.2	I	0.01	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

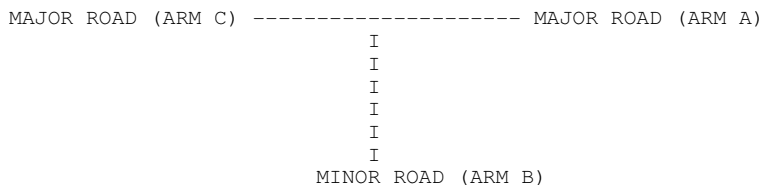
Run with file:-  
"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 9. Ardley Rd - Unnamed Rd\2013 Base\PM\Site 9. Ardley Rd - Unnamed Rd 2013 Base PM.vpi"  
(drive-on-the-left ) at 14:05:34 on Tuesday, 7 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 9. Ardley Rd - Unnamed Rd 2013 Base PM  
LOCATION: Oxfordshire  
DATE: 07/08/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----



ARM A IS Ardley Rd (S)  
ARM B IS Unnamed Rd (W)  
ARM C IS Ardley Rd (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.80 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 3.40 M.	I
I	- VISIBILITY	I	(VC-B) 100.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 100.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 100.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	9.10 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.90 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.50 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	631.87	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	515.84	0.22	0.09	0.14	0.31	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	714.40	0.26	0.26	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	08.15-08.30										I
I	B-C	0.88	10.32	0.085		0.07	0.09	1.4		0.11	I
I	B-A	0.02	6.35	0.003		0.00	0.00	0.0		0.16	I
I	C-AB	0.42	9.71	0.043		0.04	0.05	0.7		0.11	I
I	A-B	0.02									I
I	A-C	8.59									I

I	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)	I
I	08.30-08.45										I
I	B-C	0.88	10.32	0.085		0.09	0.09	1.4		0.11	I
I	B-A	0.02	6.35	0.003		0.00	0.00	0.0		0.16	I
I	C-AB	0.42	9.71	0.043		0.05	0.05	0.7		0.11	I
I	A-B	0.02									I
I	A-C	8.59									I

I	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)	I
I	08.45-09.00										I
I	B-C	0.72	10.75	0.067		0.09	0.07	1.1		0.10	I
I	B-A	0.01	6.91	0.002		0.00	0.00	0.0		0.15	I
I	C-AB	0.34	10.11	0.034		0.05	0.04	0.5		0.10	I
I	A-B	0.01									I
I	A-C	7.01									I

I	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)	I
I	09.00-09.15										I
I	B-C	0.60	11.06	0.054		0.07	0.06	0.9		0.10	I
I	B-A	0.01	7.32	0.002		0.00	0.00	0.0		0.14	I
I	C-AB	0.29	10.41	0.028		0.04	0.03	0.4		0.10	I
I	A-B	0.01									I
I	A-C	5.87									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.1

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	(VEH)	I	(MIN)	I	(MIN)	I		
I	I	I	(VEH/H)	I	(MIN/VEH)	I	(MIN/VEH)	I		
I	B-C	I	66.1	I	44.0	I	6.6	I	0.10	I
I	B-A	I	1.4	I	0.9	I	0.2	I	0.15	I
I	C-AB	I	31.7	I	21.1	I	3.3	I	0.10	I
I	A-B	I	1.4	I	0.9	I		I		I
I	A-C	I	644.2	I	429.4	I		I		I
I	ALL	I	1170.0	I	780.0	I	10.1	I	0.01	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 =====



TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 9. Ardley Rd - Unnamed Rd\2013 Base + Gen\AM\Site 9. Ardley Rd - Unnamed Rd 2013 Base + Gen AM.vpi"  
(drive-on-the-left) at 13:43:29 on Tuesday, 7 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 9. Ardley Rd - Unnamed Rd 2013 Base + Full Development AM  
LOCATION: Oxfordshire  
DATE: 07/08/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Ardley Rd (S)  
ARM B IS Unnamed Rd (W)  
ARM C IS Ardley Rd (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

DATA ITEM	MINOR ROAD B
TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	( W ) 7.80 M.
CENTRAL RESERVE WIDTH	(WCR ) 0.00 M.
MAJOR ROAD RIGHT TURN - WIDTH	(WC-B) 3.40 M.
- VISIBILITY	(VC-B) 100.0 M.
- BLOCKS TRAFFIC	YES
MINOR ROAD - VISIBILITY TO LEFT	(VB-C) 100.0 M.
- VISIBILITY TO RIGHT	(VB-A) 100.0 M.
- LANE 1 WIDTH	(WB-C) -
- LANE 2 WIDTH	(WB-A) -
- WIDTH AT 0 M FROM JUNC.	10.00 M.
- WIDTH AT 5 M FROM JUNC.	9.10 M.
- WIDTH AT 10 M FROM JUNC.	4.90 M.
- WIDTH AT 15 M FROM JUNC.	3.00 M.
- WIDTH AT 20 M FROM JUNC.	2.50 M.
- LENGTH OF FLARED SECTION	1 VEHS

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B
631.87	0.23	0.09

Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B
515.84	0.22	0.09	0.14	0.31

Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B
714.40	0.26	0.26

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



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)
17.15-17.30									
B-C	5.38	11.05	0.486		0.62	0.93	13.3		0.17
B-A	0.00	3.31	0.000		0.00	0.00	0.0		0.00
C-AB	7.82	10.36	0.755		1.49	3.22	45.3		0.37
A-B	0.11								
A-C	5.96								

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)
17.30-17.45									
B-C	5.38	11.05	0.486		0.93	0.94	14.0		0.18
B-A	0.00	3.28	0.000		0.00	0.00	0.0		0.00
C-AB	7.82	10.36	0.755		3.22	3.41	52.8		0.40
A-B	0.11								
A-C	5.96								

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)
17.45-18.00									
B-C	4.39	11.35	0.387		0.94	0.64	10.0		0.14
B-A	0.00	4.22	0.000		0.00	0.00	0.0		0.00
C-AB	6.38	10.64	0.600		3.41	1.62	25.3		0.25
A-B	0.09								
A-C	4.87								

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)
18.00-18.15									
B-C	3.68	11.57	0.318		0.64	0.47	7.3		0.13
B-A	0.00	4.95	0.000		0.00	0.00	0.0		0.00
C-AB	5.35	10.85	0.493		1.62	1.00	15.3		0.18
A-B	0.08								
A-C	4.08								

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.5
17.15	0.6 *
17.30	0.9 *
17.45	0.9 *
18.00	0.6 *
18.15	0.5

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
17.00	1.0	*
17.15	1.5	*
17.30	3.2	***
17.45	3.4	***
18.00	1.6	**
18.15	1.0	*

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I
I	I	I	I	I	* DELAY *	I	* DELAY *	I
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)
I	B-C	I 403.3	I 268.9	I	60.2	I 0.15	I	60.2
I	B-A	I 0.0	I 0.0	I	0.0	I 0.00	I	0.0
I	C-AB	I 586.4	I 390.9	I	174.9	I 0.30	I	174.9
I	A-B	I 8.3	I 5.5	I		I	I	
I	A-C	I 447.3	I 298.2	I		I	I	
I	ALL	I 2243.6	I 1495.7	I	235.1	I 0.10	I	235.1

\* 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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 9. Ardley Rd - Unnamed Rd\2013 Base + Gen\PM\Site 9. Ardley Rd - Unnamed Rd 2013 Base + Gen PM.vpi"  
(drive-on-the-left) at 13:50:53 on Tuesday, 7 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 9. Ardley Rd - Unnamed Rd 2013 Base + Full Development PM  
LOCATION: Oxfordshire  
DATE: 07/08/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Ardley Rd (S)  
ARM B IS Unnamed Rd (W)  
ARM C IS Ardley Rd (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

DATA ITEM	MINOR ROAD B
TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	( W ) 7.80 M.
CENTRAL RESERVE WIDTH	(WCR ) 0.00 M.
MAJOR ROAD RIGHT TURN - WIDTH	(WC-B) 3.40 M.
- VISIBILITY	(VC-B) 100.0 M.
- BLOCKS TRAFFIC	YES
MINOR ROAD - VISIBILITY TO LEFT	(VB-C) 100.0 M.
- VISIBILITY TO RIGHT	(VB-A) 100.0 M.
- LANE 1 WIDTH	(WB-C) -
- LANE 2 WIDTH	(WB-A) -
- WIDTH AT 0 M FROM JUNC.	10.00 M.
- WIDTH AT 5 M FROM JUNC.	9.10 M.
- WIDTH AT 10 M FROM JUNC.	4.90 M.
- WIDTH AT 15 M FROM JUNC.	3.00 M.
- WIDTH AT 20 M FROM JUNC.	2.50 M.
- LENGTH OF FLARED SECTION	1 VEHS

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B
631.87	0.23	0.09

Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B
515.84	0.22	0.09	0.14	0.31

Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B
714.40	0.26	0.26

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----





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)
17.15-17.30									
B-C	7.23	10.34	0.699		1.18	2.18	29.9		0.31
B-A	0.02	3.14	0.006		0.00	0.01	0.1		0.32
C-AB	4.75	9.71	0.489		0.61	0.94	14.0		0.20
A-B	0.02								
A-C	8.59								

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)
17.30-17.45									
B-C	7.23	10.34	0.699		2.18	2.25	33.4		0.32
B-A	0.02	3.09	0.006		0.01	0.01	0.1		0.33
C-AB	4.75	9.71	0.489		0.94	0.95	14.5		0.20
A-B	0.02								
A-C	8.59								

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)
17.45-18.00									
B-C	5.90	10.77	0.548		2.25	1.25	20.0		0.21
B-A	0.01	4.66	0.003		0.01	0.00	0.1		0.22
C-AB	3.88	10.11	0.384		0.95	0.63	9.6		0.16
A-B	0.01								
A-C	7.01								

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)
18.00-18.15									
B-C	4.94	11.08	0.446		1.25	0.82	12.9		0.16
B-A	0.01	5.69	0.002		0.00	0.00	0.0		0.18
C-AB	3.25	10.41	0.312		0.63	0.46	6.9		0.14
A-B	0.01								
A-C	5.87								

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.8 *
17.15	1.2 *
17.30	2.2 **
17.45	2.3 **
18.00	1.2 *
18.15	0.8 *

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.4
17.15	0.6 *
17.30	0.9 *
17.45	1.0 *
18.00	0.6 *
18.15	0.5

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I						
I	I	I	I	I	* DELAY *	I	* DELAY *	I						
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)						
I	I	(MIN/VEH)	I	(MIN)	(MIN/VEH)	I	(MIN)	(MIN/VEH)						
I	B-C	I	542.3	I	361.5	I	124.1	I	0.23	I	124.2	I	0.23	I
I	B-A	I	1.4	I	0.9	I	0.3	I	0.24	I	0.3	I	0.24	I
I	C-AB	I	356.5	I	237.7	I	60.9	I	0.17	I	60.9	I	0.17	I
I	A-B	I	1.4	I	0.9	I		I		I		I		I
I	A-C	I	644.2	I	429.4	I		I		I		I		I
I	ALL	I	1971.0	I	1314.0	I	185.3	I	0.09	I	185.3	I	0.09	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 9. Ardley Rd - Unnamed Rd\Sensitivity Test\AM\  
Site 9. Ardley Rd - Unnamed Rd 2013 Base + Full Development ST AM.vpi"  
(drive-on-the-left ) at 11:04:56 on Friday, 3 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 9. Ardley Rd - Unnamed Rd 2013 Base + Full Development ST AM  
LOCATION: Oxfordshire  
DATE: 31/07/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA

DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Ardley Rd (S)  
ARM B IS Unnamed Rd (W)  
ARM C IS Ardley Rd (N)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 7.80 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 3.40 M.	I
I	- VISIBILITY	I	(VC-B) 100.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 100.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 100.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	9.10 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.90 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.00 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.50 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	631.87	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	515.84	0.22	0.09	0.14	0.31	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	714.40	0.26	0.26	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	08.15-08.30										I
I	B-C	7.51	11.05	0.679		1.14	2.01	27.8		0.27	I
I	B-A	0.00	2.86	0.000		0.00	0.00	0.0		0.00	I
I	C-AB	9.21	10.36	0.889		2.45	7.69	99.5		0.64	I
I	A-B	0.11									I
I	A-C	5.96									I

I	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)	I
I	08.30-08.45										I
I	B-C	7.51	11.05	0.679		2.01	2.06	30.6		0.28	I
I	B-A	0.00	2.75	0.000		0.00	0.00	0.0		0.00	I
I	C-AB	9.21	10.36	0.889		7.69	9.22	145.0		0.85	I
I	A-B	0.11									I
I	A-C	5.96									I

I	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)	I
I	08.45-09.00										I
I	B-C	6.13	11.35	0.540		2.06	1.20	19.2		0.20	I
I	B-A	0.00	3.75	0.000		0.00	0.00	0.0		0.00	I
I	C-AB	7.52	10.64	0.707		9.22	2.89	56.2		0.42	I
I	A-B	0.09									I
I	A-C	4.87									I

I	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)	I
I	09.00-09.15										I
I	B-C	5.13	11.57	0.444		1.20	0.81	12.7		0.16	I
I	B-A	0.00	4.63	0.000		0.00	0.00	0.0		0.00	I
I	C-AB	6.30	10.85	0.581		2.89	1.47	22.8		0.23	I
I	A-B	0.08									I
I	A-C	4.08									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.8 *
08.15	1.1 *
08.30	2.0 **
08.45	2.1 **
09.00	1.2 *
09.15	0.8 *

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

-----

QUEUE FOR STREAM C-AB

-----

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
08.00	1.4	*
08.15	2.4	**
08.30	7.7	*****
08.45	9.2	*****
09.00	2.9	***
09.15	1.5	*

-----

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

-----

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	I	I	* DELAY *	I	* DELAY *	I		
I	I	I	(VEH)	(VEH/H)	(MIN)	(MIN/VEH)	(MIN)	(MIN/VEH)		
I	B-C	I	563.0	I	375.3	I	117.7	I	0.21	I
I	B-A	I	0.0	I	0.0	I	0.0	I	0.00	I
I	C-AB	I	691.0	I	460.6	I	378.9	I	0.55	I
I	A-B	I	8.3	I	5.5	I		I		I
I	A-C	I	447.3	I	298.2	I		I		I
I	ALL	I	2507.8	I	1671.9	I	496.5	I	0.20	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 9. Ardley Rd - Unnamed Rd\Sensitivity Test\PM\  
Site 9. Ardley Rd - Unnamed Rd 2013 Base + Full Development ST PM.vpi"  
(drive-on-the-left ) at 11:05:45 on Friday, 3 August 2007

RUN INFORMATION

\*\*\*\*\*

RUN TITLE: Site 9. Ardley Rd - Unnamed Rd 2013 Base + Full Development ST PM

LOCATION: Oxfordshire

DATE: 31/07/07

CLIENT: North Oxfordshire Consortium

ENUMERATOR: Ian Clarke

JOB NUMBER: 120669

STATUS: TIA

DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY

\*\*\*\*\*

INPUT DATA

-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)

I  
I  
I  
I  
I  
I

MINOR ROAD (ARM B)

ARM A IS Ardley Rd (S)

ARM B IS Unnamed Rd (W)

ARM C IS Ardley Rd (N)

STREAM LABELLING CONVENTION

-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B

STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C

ETC.



-----  
 GEOMETRIC DATA  
 -----

DATA ITEM	MINOR ROAD B
TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	( W ) 7.80 M.
CENTRAL RESERVE WIDTH	(WCR ) 0.00 M.
MAJOR ROAD RIGHT TURN - WIDTH	(WC-B) 3.40 M.
- VISIBILITY	(VC-B) 100.0 M.
- BLOCKS TRAFFIC	YES
MINOR ROAD - VISIBILITY TO LEFT	(VB-C) 100.0 M.
- VISIBILITY TO RIGHT	(VB-A) 100.0 M.
- LANE 1 WIDTH	(WB-C) -
- LANE 2 WIDTH	(WB-A) -
- WIDTH AT 0 M FROM JUNC.	10.00 M.
- WIDTH AT 5 M FROM JUNC.	9.10 M.
- WIDTH AT 10 M FROM JUNC.	4.90 M.
- WIDTH AT 15 M FROM JUNC.	3.00 M.
- WIDTH AT 20 M FROM JUNC.	2.50 M.
- LENGTH OF FLARED SECTION	1 VEHS

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B
631.87	0.23	0.09

Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B
515.84	0.22	0.09	0.14	0.31

Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B
714.40	0.26	0.26

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	17.15-17.30										I
I	B-C	8.88	10.34	0.859		1.96	4.87	60.8		0.55	I
I	B-A	0.02	1.43	0.013		0.00	0.01	0.2		0.71	I
I	C-AB	6.57	9.71	0.676		1.11	2.06	30.0		0.31	I
I	A-B	0.02									I
I	A-C	8.59									I

I	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)	I
I	17.30-17.45										I
I	B-C	8.88	10.34	0.859		4.87	5.35	77.3		0.64	I
I	B-A	0.02	1.24	0.015		0.01	0.01	0.2		0.82	I
I	C-AB	6.57	9.71	0.676		2.06	2.13	32.7		0.32	I
I	A-B	0.02									I
I	A-C	8.59									I

I	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)	I
I	17.45-18.00										I
I	B-C	7.25	10.77	0.673		5.35	2.18	37.3		0.32	I
I	B-A	0.01	3.33	0.005		0.01	0.00	0.1		0.30	I
I	C-AB	5.36	10.11	0.530		2.13	1.17	18.0		0.22	I
I	A-B	0.01									I
I	A-C	7.01									I

I	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)	I
I	18.00-18.15										I
I	B-C	6.07	11.08	0.548		2.18	1.25	19.9		0.20	I
I	B-A	0.01	4.81	0.003		0.00	0.00	0.0		0.21	I
I	C-AB	4.49	10.41	0.432		1.17	0.78	11.8		0.17	I
I	A-B	0.01									I
I	A-C	5.87									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
17.00	1.2	*
17.15	2.0	**
17.30	4.9	*****
17.45	5.4	*****
18.00	2.2	**
18.15	1.2	*

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

-----  
 QUEUE FOR STREAM C-AB  
 -----

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
17.00	0.7	*
17.15	1.1	*
17.30	2.1	**
17.45	2.1	**
18.00	1.2	*
18.15	0.8	*

-----  
 QUEUEING DELAY INFORMATION OVER WHOLE PERIOD  
 -----

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I						
I	I	I	I	I	I	I	I	I						
I	I	I	(VEH)	(VEH/H)	(MIN)	(MIN/VEH)	(MIN)	(MIN/VEH)						
I	B-C	I	666.2	I	444.1	I	238.9	I	0.36	I	239.0	I	0.36	I
I	B-A	I	1.4	I	0.9	I	0.6	I	0.43	I	0.6	I	0.43	I
I	C-AB	I	492.8	I	328.5	I	120.0	I	0.24	I	120.1	I	0.24	I
I	A-B	I	1.4	I	0.9	I		I		I		I		I
I	A-C	I	644.2	I	429.4	I		I		I		I		I
I	ALL	I	2231.2	I	1487.5	I	359.6	I	0.16	I	359.7	I	0.16	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 10. Camp Rd - B430 to Ardley\2006 Base\AM\Site 10. Camp Rd - Unnamed Rd 2006 Base AM.vpi"  
(drive-on-the-left ) at 11:04:22 on Wednesday, 11 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 10. Camp Road - Unnamed Rd towards B430 2006 Base AM  
LOCATION: Oxfordshire  
DATE: 09/11/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Rd (W)  
ARM B IS Unnamed Rd (E) towards B430  
ARM C IS Unnamed Rd (S) towards Middleton Stoney

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.10 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 130.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 120.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 145.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.30 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.40 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.40 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	657.93	0.25	0.10	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	543.76	0.25	0.10	0.16	0.36	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	649.25	0.25	0.25	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	08.15-08.30										I
I	B-C	0.33	12.35	0.027		0.02	0.03	0.4		0.08	I
I	B-A	0.53	10.86	0.049		0.04	0.05	0.8		0.10	I
I	C-AB	0.15	10.60	0.014		0.01	0.01	0.2		0.10	I
I	A-B	0.42									I
I	A-C	0.48									I

I	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)	I
I	08.30-08.45										I
I	B-C	0.33	12.35	0.027		0.03	0.03	0.4		0.08	I
I	B-A	0.53	10.86	0.049		0.05	0.05	0.8		0.10	I
I	C-AB	0.15	10.60	0.014		0.01	0.01	0.2		0.10	I
I	A-B	0.42									I
I	A-C	0.48									I

I	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)	I
I	08.45-09.00										I
I	B-C	0.27	12.41	0.022		0.03	0.02	0.3		0.08	I
I	B-A	0.43	10.92	0.040		0.05	0.04	0.6		0.10	I
I	C-AB	0.12	10.64	0.011		0.01	0.01	0.2		0.10	I
I	A-B	0.34									I
I	A-C	0.39									I

I	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)	I
I	09.00-09.15										I
I	B-C	0.23	12.46	0.018		0.02	0.02	0.3		0.08	I
I	B-A	0.36	10.96	0.033		0.04	0.03	0.5		0.09	I
I	C-AB	0.10	10.67	0.009		0.01	0.01	0.1		0.09	I
I	A-B	0.29									I
I	A-C	0.33									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.1
08.45	0.1
09.00	0.0
09.15	0.0



QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)	(MIN/VEH)	I
I	B-C	I	24.8	I	16.5	I	2.0	I	0.08	I
I	B-A	I	39.9	I	26.6	I	3.8	I	0.10	I
I	C-AB	I	11.0	I	7.3	I	1.0	I	0.10	I
I	A-B	I	31.7	I	21.1	I		I		I
I	A-C	I	35.8	I	23.9	I		I		I
I	ALL	I	167.9	I	111.9	I	6.9	I	0.04	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 10. Camp Rd - B430 to Ardley\2006 Base\PM\Site 10. Camp Rd - Unnamed Rd 2006 Base PM.vpi"  
(drive-on-the-left ) at 11:15:02 on Wednesday, 11 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 10. Camp Road - Unnamed Rd towards B430 2006 Base PM  
LOCATION: Oxfordshire  
DATE: 09/11/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Rd (W)  
ARM B IS Unnamed Rd (E) towards B430  
ARM C IS Unnamed Rd (S) towards Middleton Stoney

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.10 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 130.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 120.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 145.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.30 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.40 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.40 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	657.93	0.25	0.10	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	543.76	0.25	0.10	0.16	0.36	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	649.25	0.25	0.25	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	17.15-17.30										I
I	B-C	0.06	11.67	0.005		0.00	0.00	0.1		0.09	I
I	B-A	0.28	10.66	0.026		0.02	0.03	0.4		0.10	I
I	C-AB	0.31	10.59	0.029		0.02	0.03	0.5		0.10	I
I	A-B	0.48									I
I	A-C	0.46									I

I	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)	I
I	17.30-17.45										I
I	B-C	0.06	11.67	0.005		0.00	0.00	0.1		0.09	I
I	B-A	0.28	10.66	0.026		0.03	0.03	0.4		0.10	I
I	C-AB	0.31	10.59	0.029		0.03	0.03	0.5		0.10	I
I	A-B	0.48									I
I	A-C	0.46									I

I	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)	I
I	17.45-18.00										I
I	B-C	0.04	11.71	0.004		0.00	0.00	0.1		0.09	I
I	B-A	0.22	10.73	0.021		0.03	0.02	0.3		0.10	I
I	C-AB	0.25	10.63	0.024		0.03	0.02	0.4		0.10	I
I	A-B	0.39									I
I	A-C	0.37									I

I	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)	I
I	18.00-18.15										I
I	B-C	0.04	11.75	0.003		0.00	0.00	0.0		0.09	I
I	B-A	0.19	10.79	0.017		0.02	0.02	0.3		0.09	I
I	C-AB	0.21	10.66	0.020		0.02	0.02	0.3		0.10	I
I	A-B	0.33									I
I	A-C	0.31									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	I	I	* DELAY *	I	* DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	B-C	I	4.1	I	2.8	I	0.4	I	0.09	I
I	B-A	I	20.6	I	13.8	I	2.0	I	0.09	I
I	C-AB	I	23.4	I	15.6	I	2.3	I	0.10	I
I	A-B	I	35.8	I	23.9	I		I		I
I	A-C	I	34.4	I	22.9	I		I		I
I	ALL	I	141.8	I	94.5	I	4.6	I	0.03	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 10. Camp Rd - B430 to Ardley\2013 Base\AM\Site 10. Camp Rd - Unnamed Rd 2013 Base AM.vpi"  
(drive-on-the-left ) at 11:24:54 on Wednesday, 11 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 10. Camp Road - Unnamed Rd towards B430 2013 Base AM  
LOCATION: Oxfordshire  
DATE: 09/11/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Rd (W)  
ARM B IS Unnamed Rd (E) towards B430  
ARM C IS Unnamed Rd (S) towards Middleton Stoney

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.10 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 130.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 120.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 145.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.30 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.40 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.40 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	657.93	0.25	0.10	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	543.76	0.25	0.10	0.16	0.36	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	649.25	0.25	0.25	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----





I	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)	I
I	08.15-08.30										I
I	B-C	0.39	12.32	0.031		0.03	0.03	0.5		0.08	I
I	B-A	0.61	10.80	0.056		0.05	0.06	0.9		0.10	I
I	C-AB	0.17	10.56	0.016		0.01	0.02	0.2		0.10	I
I	A-B	0.48									I
I	A-C	0.55									I

I	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)	I
I	08.30-08.45										I
I	B-C	0.39	12.32	0.031		0.03	0.03	0.5		0.08	I
I	B-A	0.61	10.80	0.056		0.06	0.06	0.9		0.10	I
I	C-AB	0.17	10.56	0.016		0.02	0.02	0.2		0.10	I
I	A-B	0.48									I
I	A-C	0.55									I

I	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)	I
I	08.45-09.00										I
I	B-C	0.31	12.39	0.025		0.03	0.03	0.4		0.08	I
I	B-A	0.49	10.86	0.046		0.06	0.05	0.7		0.10	I
I	C-AB	0.13	10.61	0.013		0.02	0.01	0.2		0.10	I
I	A-B	0.39									I
I	A-C	0.45									I

I	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)	I
I	09.00-09.15										I
I	B-C	0.26	12.45	0.021		0.03	0.02	0.3		0.08	I
I	B-A	0.41	10.91	0.038		0.05	0.04	0.6		0.10	I
I	C-AB	0.11	10.64	0.011		0.01	0.01	0.2		0.10	I
I	A-B	0.33									I
I	A-C	0.38									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.1
08.45	0.1
09.00	0.0
09.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)	(MIN/VEH)	I
I	B-C	I	28.9	I	19.3	I	2.4	I	0.08	I
I	B-A	I	45.4	I	30.3	I	4.4	I	0.10	I
I	C-AB	I	12.4	I	8.3	I	1.2	I	0.10	I
I	A-B	I	35.8	I	23.9	I		I		I
I	A-C	I	41.3	I	27.5	I		I		I
I	ALL	I	191.3	I	127.5	I	7.9	I	0.04	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

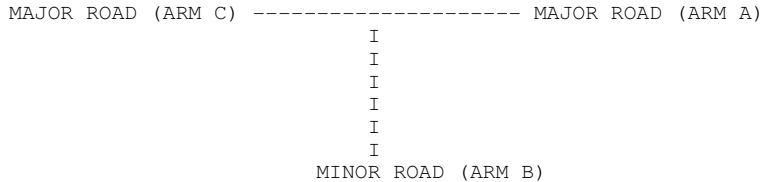
"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 10. Camp Rd - B430 to Ardley\2013 Base\PM\Site 10. Camp Rd - Unnamed Rd 2013 Base PM.vpi"  
(drive-on-the-left ) at 11:29:13 on Wednesday, 11 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 10. Camp Road - Unnamed Rd towards B430 2013 Base PM  
LOCATION: Oxfordshire  
DATE: 09/11/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----



ARM A IS Camp Rd (W)  
ARM B IS Unnamed Rd (E) towards B430  
ARM C IS Unnamed Rd (S) towards Middleton Stoney

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.10 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 130.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 120.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 145.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.30 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.40 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.40 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	657.93	0.25	0.10	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	543.76	0.25	0.10	0.16	0.36	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	649.25	0.25	0.25	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	17.15-17.30										I
I	B-C	0.07	11.71	0.006		0.01	0.01	0.1		0.09	I
I	B-A	0.31	10.58	0.029		0.02	0.03	0.4		0.10	I
I	C-AB	0.37	10.55	0.035		0.03	0.04	0.5		0.10	I
I	A-B	0.55									I
I	A-C	0.51									I

I	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)	I
I	17.30-17.45										I
I	B-C	0.07	11.71	0.006		0.01	0.01	0.1		0.09	I
I	B-A	0.31	10.58	0.029		0.03	0.03	0.5		0.10	I
I	C-AB	0.37	10.55	0.035		0.04	0.04	0.5		0.10	I
I	A-B	0.55									I
I	A-C	0.51									I

I	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)	I
I	17.45-18.00										I
I	B-C	0.06	11.77	0.005		0.01	0.01	0.1		0.09	I
I	B-A	0.25	10.66	0.024		0.03	0.02	0.4		0.10	I
I	C-AB	0.30	10.60	0.028		0.04	0.03	0.4		0.10	I
I	A-B	0.45									I
I	A-C	0.42									I

I	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)	I
I	18.00-18.15										I
I	B-C	0.05	11.81	0.004		0.01	0.00	0.1		0.09	I
I	B-A	0.21	10.72	0.020		0.02	0.02	0.3		0.10	I
I	C-AB	0.25	10.64	0.024		0.03	0.02	0.4		0.10	I
I	A-B	0.38									I
I	A-C	0.35									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	I	I	* DELAY *	I	* DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	B-C	I	5.5	I	3.7	I	0.5	I	0.09	I
I	B-A	I	23.4	I	15.6	I	2.2	I	0.10	I
I	C-AB	I	27.5	I	18.4	I	2.7	I	0.10	I
I	A-B	I	41.3	I	27.5	I	I	I	I	I
I	A-C	I	38.5	I	25.7	I	I	I	I	I
I	ALL	I	162.4	I	108.3	I	5.4	I	0.03	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 =====



TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-  
"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 10. Camp Rd - B430 to Ardley\2013 Base + Gen\AM\  
Site 10. Camp Rd - Unnamed Rd 2013 Base + Full Development AM.vpi"  
(drive-on-the-left ) at 11:15:02 on Tuesday, 31 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 10. Camp Road - Unnamed Rd towards B430 2013 Base + Full Development AM  
LOCATION: Oxfordshire  
DATE: 31/07/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Rd (W)  
ARM B IS Unnamed Rd (E) towards B430  
ARM C IS Unnamed Rd (S) towards Middleton Stoney

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.10 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 130.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 120.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 145.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.30 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.40 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.40 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	657.93	0.25	0.10	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	543.76	0.25	0.10	0.16	0.36	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	649.25	0.25	0.25	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	08.15-08.30										I
I	B-C	0.39	1.49	0.258		0.06	0.32	4.2		0.88	I
I	B-A	6.92	7.48	0.925		2.10	6.68	76.2		0.93	I
I	C-AB	0.17	7.84	0.021		0.02	0.02	0.3		0.13	I
I	A-B	5.23									I
I	A-C	6.66									I

I	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)	I
I	08.30-08.45										I
I	B-C	0.39	0.71	0.546		0.32	0.89	10.6		2.57	I
I	B-A	6.92	7.47	0.926		6.68	8.14	112.4		1.27	I
I	C-AB	0.17	7.84	0.021		0.02	0.02	0.3		0.13	I
I	A-B	5.23									I
I	A-C	6.66									I

I	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)	I
I	08.45-09.00										I
I	B-C	0.31	4.71	0.067		0.89	0.07	1.3		0.23	I
I	B-A	5.65	8.14	0.694		8.14	2.47	49.4		0.54	I
I	C-AB	0.13	8.39	0.016		0.02	0.02	0.2		0.12	I
I	A-B	4.27									I
I	A-C	5.44									I

I	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)	I
I	09.00-09.15										I
I	B-C	0.26	7.28	0.036		0.07	0.04	0.6		0.14	I
I	B-A	4.73	8.62	0.549		2.47	1.26	20.4		0.27	I
I	C-AB	0.11	8.78	0.013		0.02	0.01	0.2		0.12	I
I	A-B	3.58									I
I	A-C	4.55									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.1
08.30	0.3
08.45	0.9 *
09.00	0.1
09.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	1.2 *
08.15	2.1 **
08.30	6.7 *****
08.45	8.1 *****
09.00	2.5 **
09.15	1.3 *

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	I	I	* DELAY *	I	* DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	I	I	I	I	I	I	I	(MIN/VEH) I		
I	B-C	I	28.9	I	19.3	I	18.1	I	0.63	I
I	B-A	I	518.9	I	345.9	I	303.1	I	0.58	I
I	C-AB	I	12.4	I	8.3	I	1.5	I	0.12	I
I	A-B	I	392.3	I	261.5	I		I		I
I	A-C	I	499.6	I	333.1	I		I		I
I	ALL	I	1778.3	I	1185.6	I	322.8	I	0.18	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 10. Camp Rd - B430 to Ardley\2013 Base + Gen\PM\  
Site 10. Camp Rd - Unnamed Rd 2013 Base + Full Development PM.vpi"  
(drive-on-the-left ) at 17:30:21 on Tuesday, 7 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 10. Camp Road - Unnamed Rd towards B430 2013 Base + Full Development PM  
LOCATION: Oxfordshire  
DATE: 07/08/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Rd (W)  
ARM B IS Unnamed Rd (E) towards B430  
ARM C IS Unnamed Rd (S) towards Middleton Stoney

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

DATA ITEM	MINOR ROAD B
TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	( W ) 6.10 M.
CENTRAL RESERVE WIDTH	(WCR ) 0.00 M.
MAJOR ROAD RIGHT TURN - WIDTH	(WC-B) 2.20 M.
- VISIBILITY	(VC-B) 130.0 M.
- BLOCKS TRAFFIC	YES
MINOR ROAD - VISIBILITY TO LEFT	(VB-C) 120.0 M.
- VISIBILITY TO RIGHT	(VB-A) 145.0 M.
- LANE 1 WIDTH	(WB-C) -
- LANE 2 WIDTH	(WB-A) -
- WIDTH AT 0 M FROM JUNC.	10.00 M.
- WIDTH AT 5 M FROM JUNC.	6.00 M.
- WIDTH AT 10 M FROM JUNC.	4.30 M.
- WIDTH AT 15 M FROM JUNC.	3.40 M.
- WIDTH AT 20 M FROM JUNC.	3.40 M.
- LENGTH OF FLARED SECTION	1 VEHS

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B
657.93	0.25	0.10

Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B
543.76	0.25	0.10	0.16	0.36

Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B
649.25	0.25	0.25

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----





I	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)	I
I	08.15-08.30										I
I	B-C	0.07	6.08	0.012		0.01	0.01	0.2		0.17	I
I	B-A	4.66	7.41	0.629		0.87	1.60	22.0		0.35	I
I	C-AB	0.37	7.77	0.047		0.04	0.05	0.8		0.14	I
I	A-B	6.90									I
I	A-C	5.27									I

I	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)	I
I	08.30-08.45										I
I	B-C	0.07	6.01	0.012		0.01	0.01	0.2		0.17	I
I	B-A	4.66	7.41	0.629		1.60	1.65	24.4		0.36	I
I	C-AB	0.37	7.77	0.047		0.05	0.05	0.8		0.14	I
I	A-B	6.90									I
I	A-C	5.27									I

I	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)	I
I	08.45-09.00										I
I	B-C	0.06	7.89	0.008		0.01	0.01	0.1		0.13	I
I	B-A	3.81	8.08	0.471		1.65	0.92	14.6		0.24	I
I	C-AB	0.30	8.33	0.036		0.05	0.04	0.6		0.12	I
I	A-B	5.63									I
I	A-C	4.30									I

I	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)	I
I	09.00-09.15										I
I	B-C	0.05	8.92	0.006		0.01	0.01	0.1		0.11	I
I	B-A	3.19	8.56	0.372		0.92	0.60	9.5		0.19	I
I	C-AB	0.25	8.74	0.029		0.04	0.03	0.5		0.12	I
I	A-B	4.72									I
I	A-C	3.60									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
08.00	0.6	*
08.15	0.9	*
08.30	1.6	**
08.45	1.6	**
09.00	0.9	*
09.15	0.6	*

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.1
08.45	0.1
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	I	I	* DELAY *	I	* DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	I	(MIN/VEH)	I	(MIN)	(MIN/VEH)	I	(MIN)	(MIN/VEH)		
I	B-C	I	5.5	I	3.7	I	0.8	I	0.14	I
I	B-A	I	349.6	I	233.1	I	91.2	I	0.26	I
I	C-AB	I	27.5	I	18.4	I	3.6	I	0.13	I
I	A-B	I	517.5	I	345.0	I		I		I
I	A-C	I	395.0	I	263.4	I		I		I
I	ALL	I	1709.5	I	1139.7	I	95.5	I	0.06	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 10. Camp Rd - B430 to Ardley\Sensitivity Test\AM\  
Site 10. Camp Rd - Unnamed Rd 2013 Base + Full Development ST AM.vpi"  
(drive-on-the-left ) at 11:07:34 on Friday, 3 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 10. Camp Road - Unnamed Rd towards B430 2013 Base + Full Development ST AM  
LOCATION: Oxfordshire  
DATE: 31/07/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Rd (W)  
ARM B IS Unnamed Rd (E) towards B430  
ARM C IS Unnamed Rd (S) towards Middleton Stoney

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

DATA ITEM	MINOR ROAD B
TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	( W ) 6.10 M.
CENTRAL RESERVE WIDTH	(WCR ) 0.00 M.
MAJOR ROAD RIGHT TURN - WIDTH	(WC-B) 2.20 M.
- VISIBILITY	(VC-B) 130.0 M.
- BLOCKS TRAFFIC	YES
MINOR ROAD - VISIBILITY TO LEFT	(VB-C) 120.0 M.
- VISIBILITY TO RIGHT	(VB-A) 145.0 M.
- LANE 1 WIDTH	(WB-C) -
- LANE 2 WIDTH	(WB-A) -
- WIDTH AT 0 M FROM JUNC.	10.00 M.
- WIDTH AT 5 M FROM JUNC.	6.00 M.
- WIDTH AT 10 M FROM JUNC.	4.30 M.
- WIDTH AT 15 M FROM JUNC.	3.40 M.
- WIDTH AT 20 M FROM JUNC.	3.40 M.
- LENGTH OF FLARED SECTION	1 VEHS

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B
657.93	0.25	0.10

Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B
543.76	0.25	0.10	0.16	0.36

Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B
649.25	0.25	0.25

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	08.15-08.30										I
I	B-C	0.39	0.37	1.034		0.08	2.05	18.9		6.07	I
I	B-A	8.31	8.13	1.022		3.16	12.73	130.0		1.36	I
I	C-AB	0.17	7.84	0.021		0.02	0.02	0.3		0.13	I
I	A-B	7.38									I
I	A-C	4.53									I

I	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)	I
I	08.30-08.45										I
I	B-C	0.39	0.46	0.832		2.05	2.44	33.9		6.12	I
I	B-A	8.31	8.12	1.023		12.73	18.79	238.2		2.26	I
I	C-AB	0.17	7.84	0.021		0.02	0.02	0.3		0.13	I
I	A-B	7.38									I
I	A-C	4.53									I

I	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)	I
I	08.45-09.00										I
I	B-C	0.31	1.96	0.160		2.44	0.20	5.6		0.73	I
I	B-A	6.79	8.66	0.784		18.79	4.45	140.1		1.32	I
I	C-AB	0.13	8.39	0.016		0.02	0.02	0.2		0.12	I
I	A-B	6.02									I
I	A-C	3.70									I

I	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)	I
I	09.00-09.15										I
I	B-C	0.26	6.37	0.041		0.20	0.04	0.7		0.16	I
I	B-A	5.68	9.06	0.627		4.45	1.77	30.2		0.33	I
I	C-AB	0.11	8.78	0.013		0.02	0.01	0.2		0.12	I
I	A-B	5.04									I
I	A-C	3.10									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.1
08.30	2.1 **
08.45	2.4 **
09.00	0.2
09.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	1.6 **
08.15	3.2 ***
08.30	12.7 *****
08.45	18.8 *****
09.00	4.5 ****
09.15	1.8 **

-----

QUEUE FOR STREAM C-AB

-----

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

-----

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

-----

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I	
I	I	I	I	I	I	I	I	I	
I	I	I	(VEH)	(VEH/H)	(MIN)	(MIN/VEH)	(MIN)	(MIN/VEH)	
I	B-C	I	28.9	I 19.3	I 60.7	I 2.10	I 60.7	I 2.10	I
I	B-A	I	623.5	I 415.7	I 601.6	I 0.96	I 601.8	I 0.97	I
I	C-AB	I	12.4	I 8.3	I 1.5	I 0.12	I 1.5	I 0.12	I
I	A-B	I	553.3	I 368.9	I	I	I	I	I
I	A-C	I	340.0	I 226.7	I	I	I	I	I
I	ALL	I	1779.7	I 1186.5	I 663.9	I 0.37	I 664.0	I 0.37	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 10. Camp Rd - B430 to Ardley\Sensitivity Test\PM\  
Site 10. Camp Rd - Unnamed Rd 2013 Base + Full Development ST PM.vpi"  
(drive-on-the-left ) at 11:03:53 on Friday, 3 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 10. Camp Road - Unnamed Rd towards B430 2013 Base + Full Development ST PM  
LOCATION: Oxfordshire  
DATE: 31/07/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA

DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Rd (W)  
ARM B IS Unnamed Rd (E) towards B430  
ARM C IS Unnamed Rd (S) towards Middleton Stoney

STREAM LABELLING CONVENTION

-----  
STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.



-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.10 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 130.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 120.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 145.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	10.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	6.00 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	4.30 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	3.40 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	3.40 M.	I
I	- LENGTH OF FLARED SECTION	I	1 VEHS	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	657.93	0.25	0.10	I

I	Intercept For Stream B-A	Slope For Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	543.76	0.25	0.10	0.16	0.36	I

I	Intercept For Stream C-B	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	649.25	0.25	0.25	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	17.15-17.30										I
I	B-C	0.07	3.72	0.020		0.01	0.02	0.3		0.27	I
I	B-A	6.46	8.06	0.801		1.51	3.44	44.1		0.54	I
I	C-AB	0.37	7.78	0.047		0.04	0.05	0.8		0.13	I
I	A-B	8.55									I
I	A-C	3.60									I

I	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)	I
I	17.30-17.45										I
I	B-C	0.07	3.44	0.021		0.02	0.02	0.3		0.30	I
I	B-A	6.46	8.06	0.802		3.44	3.69	53.8		0.60	I
I	C-AB	0.37	7.78	0.047		0.05	0.05	0.8		0.13	I
I	A-B	8.55									I
I	A-C	3.60									I

I	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)	I
I	17.45-18.00										I
I	B-C	0.06	6.42	0.009		0.02	0.01	0.1		0.16	I
I	B-A	5.27	8.61	0.613		3.69	1.66	27.7		0.32	I
I	C-AB	0.30	8.34	0.036		0.05	0.04	0.6		0.12	I
I	A-B	6.98									I
I	A-C	2.94									I

I	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)	I
I	18.00-18.15										I
I	B-C	0.05	8.11	0.006		0.01	0.01	0.1		0.12	I
I	B-A	4.42	9.01	0.490		1.66	0.99	15.7		0.22	I
I	C-AB	0.25	8.74	0.029		0.04	0.03	0.4		0.12	I
I	A-B	5.85									I
I	A-C	2.46									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.9 *
17.15	1.5 **
17.30	3.4 ***
17.45	3.7 ****
18.00	1.7 **
18.15	1.0 *

-----

QUEUE FOR STREAM C-AB

-----

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.1
17.45	0.1
18.00	0.0
18.15	0.0

-----

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

-----

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I
I	I	I	I	I	* DELAY *	I	* DELAY *	I
I	I	I	(VEH)	(VEH/H)	(MIN)	(MIN/VEH)	(MIN)	(MIN/VEH)
I	B-C	I	5.5	I 3.7	I 1.1	I 0.19	I 1.1	I 0.19
I	B-A	I	484.5	I 323.0	I 175.5	I 0.36	I 175.5	I 0.36
I	C-AB	I	27.5	I 18.4	I 3.5	I 0.13	I 3.5	I 0.13
I	A-B	I	641.4	I 427.6	I	I	I	I
I	A-C	I	269.8	I 179.9	I	I	I	I
I	ALL	I	1708.1	I 1138.8	I 180.1	I 0.11	I 180.1	I 0.11

-----

\* 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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-  
"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 11. Camp Rd - Kirtlington Rd\2006 base\AM\Site 11.Camp Rd - Kirtlington Rd 2006 Base AM.vpi"  
(drive-on-the-left ) at 10:03:33 on Wednesday, 8 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 11. Camp Rd - Kirtlington Rd 2006 Base AM  
LOCATION: Oxfordshire  
DATE: 09/11/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Road (E)  
ARM B IS Kirtlington Rd  
ARM C IS Camp Road (W)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 95.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 21.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 16.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) 2.50 M.	I
I	- LANE 2 WIDTH	I	(WB-A) 0.00 M.	I

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	602.27	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	467.65	0.22	0.09	0.14	0.31	I

I	Intercept For Stream C-B	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	628.98	0.24	0.24	I

NB These values do not allow for any site specific corrections

TRAFFIC DEMAND DATA  
 -----

I	ARM	I	FLOW SCALE(%)	I
I	A	I	100	I
I	B	I	100	I
I	C	I	100	I

Demand set: Site 11. Camp Rd - Kirtlington Rd 2006 base AM

TIME PERIOD BEGINS 07.45 AND ENDS 09.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

I	ARM	I	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	I	TOP OF PEAK IS REACHED	I	FLOW STOPS FALLING	I	RATE OF FLOW (VEH/MIN) BEFORE PEAK	I	AT TOP OF PEAK	I	AFTER PEAK
I	ARM A	I	15.00	I	45.00	I	75.00	I	0.70	I	1.05	I	0.70
I	ARM B	I	15.00	I	45.00	I	75.00	I	0.04	I	0.06	I	0.04
I	ARM C	I	15.00	I	45.00	I	75.00	I	0.69	I	1.03	I	0.69



I	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)	I
I	08.45-09.00										I
I	B-AC	0.04	8.91	0.005		0.01	0.01	0.1		0.11	I
I	C-AB	0.22	10.28	0.022		0.03	0.02	0.3		0.10	I
I	A-B	0.12									I
I	A-C	0.72									I

I	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)	I
I	09.00-09.15										I
I	B-AC	0.04	8.95	0.004		0.01	0.00	0.1		0.11	I
I	C-AB	0.19	10.31	0.018		0.02	0.02	0.3		0.10	I
I	A-B	0.10									I
I	A-C	0.60									I

QUEUE FOR STREAM B-AC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I	* DELAY *	I
I	I	I	(VEH)	I	(MIN)	I	(MIN)	I	(MIN/VEH)	I
I	B-AC	I	4.1	I	2.8	I	0.5	I	0.11	I
I	C-AB	I	20.6	I	13.8	I	2.1	I	0.10	I
I	A-B	I	11.0	I	7.3	I		I		I
I	A-C	I	66.1	I	44.0	I		I		I
I	ALL	I	156.9	I	104.6	I	2.5	I	0.02	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 =====



TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-  
"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 11. Camp Rd - Kirtlington Rd\2006 base\PM\Site 11.Camp Rd - Kirtlington Rd 2006 Base PM.vpi"  
(drive-on-the-left ) at 10:11:07 on Wednesday, 8 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 11. Camp Rd - Kirtlington Rd 2006 Base PM  
LOCATION: Oxfordshire  
DATE: 09/11/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Road (E)  
ARM B IS Kirtlington Rd  
ARM C IS Camp Road (W)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I ( W )	6.00 M.	I
I	CENTRAL RESERVE WIDTH	I (WCR )	0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I (WC-B)	2.20 M.	I
I	- VISIBILITY	I (VC-B)	95.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I (VB-C)	21.0 M.	I
I	- VISIBILITY TO RIGHT	I (VB-A)	16.0 M.	I
I	- LANE 1 WIDTH	I (WB-C)	2.50 M.	I
I	- LANE 2 WIDTH	I (WB-A)	0.00 M.	I

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	602.27	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	467.65	0.22	0.09	0.14	0.31	I

I	Intercept For Stream C-B	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	628.98	0.24	0.24	I

NB These values do not allow for any site specific corrections

TRAFFIC DEMAND DATA  
 -----

I	ARM	I	FLOW SCALE(%)	I
I	A	I	100	I
I	B	I	100	I
I	C	I	100	I

Demand set: Site 11. Camp Rd - Kirtlington Rd 2006 Base PM

TIME PERIOD BEGINS 16.45 AND ENDS 18.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

I	ARM	I	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	I	TOP OF PEAK IS REACHED	I	FLOW STOPS FALLING	I	RATE OF FLOW (VEH/MIN) BEFORE PEAK	I	AT TOP OF PEAK	I	AFTER PEAK
I	ARM A	I	15.00	I	45.00	I	75.00	I	0.29	I	0.43	I	0.29
I	ARM B	I	15.00	I	45.00	I	75.00	I	0.74	I	1.11	I	0.74
I	ARM C	I	15.00	I	45.00	I	75.00	I	0.59	I	0.88	I	0.59



I	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)	I
I	17.45-18.00										I
I	B-AC	0.88	9.33	0.095		0.13	0.11	1.6		0.12	I
I	C-AB	0.07	10.40	0.007		0.01	0.01	0.1		0.10	I
I	A-B	0.04									I
I	A-C	0.30									I

I	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)	I
I	18.00-18.15										I
I	B-AC	0.74	9.35	0.079		0.11	0.09	1.3		0.12	I
I	C-AB	0.06	10.41	0.006		0.01	0.01	0.1		0.10	I
I	A-B	0.04									I
I	A-C	0.25									I

QUEUE FOR STREAM B-AC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.1
17.15	0.1
17.30	0.1
17.45	0.1
18.00	0.1
18.15	0.1

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND (VEH)	I	* QUEUEING * * DELAY * (MIN)	I	* INCLUSIVE QUEUEING * * DELAY * (MIN)	I		I
I	B-AC	I	81.2	I	9.6	I	9.6	I	0.12	I
I	C-AB	I	6.9	I	0.7	I	0.7	I	0.10	I
I	A-B	I	4.1	I		I		I		I
I	A-C	I	27.5	I		I		I		I
I	ALL	I	177.6	I	10.3	I	10.3	I	0.06	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-  
"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 11. Camp Rd - Kirtlington Rd\2013 Base\AM\Site 11.Camp Rd - Kirtlington Rd 2013 Base AM.vpi"  
(drive-on-the-left ) at 10:16:49 on Wednesday, 8 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 11. Camp Rd - Kirtlington Rd 2013 Base AM  
LOCATION: Oxfordshire  
DATE: 13/07/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian.Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Road (E)  
ARM B IS Kirtlington Rd  
ARM C IS Camp Road (W)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 95.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 21.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 16.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) 2.50 M.	I
I	- LANE 2 WIDTH	I	(WB-A) 0.00 M.	I

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	602.27	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	467.65	0.22	0.09	0.14	0.31	I

I	Intercept For Stream C-B	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	628.98	0.24	0.24	I

NB These values do not allow for any site specific corrections

TRAFFIC DEMAND DATA  
 -----

I	ARM	I	FLOW SCALE(%)	I
I	A	I	100	I
I	B	I	100	I
I	C	I	100	I

Demand set: Site 11. Camp Rd - Kirtlington Rd 2013 Base AM

TIME PERIOD BEGINS 07.45 AND ENDS 09.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

I	ARM	I	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	I	TOP OF PEAK IS REACHED	I	FLOW STOPS FALLING	I	RATE OF FLOW (VEH/MIN) BEFORE PEAK	I	AT TOP OF PEAK	I	AFTER PEAK
I	ARM A	I	15.00	I	45.00	I	75.00	I	0.77	I	1.16	I	0.77
I	ARM B	I	15.00	I	45.00	I	75.00	I	0.05	I	0.08	I	0.05
I	ARM C	I	15.00	I	45.00	I	75.00	I	0.77	I	1.16	I	0.77



I	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)	I
I	08.45-09.00										I
I	B-AC	0.06	8.47	0.007		0.01	0.01	0.1		0.12	I
I	C-AB	0.25	10.26	0.025		0.03	0.03	0.4		0.10	I
I	A-B	0.12									I
I	A-C	0.81									I

I	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)	I
I	09.00-09.15										I
I	B-AC	0.05	8.52	0.006		0.01	0.01	0.1		0.12	I
I	C-AB	0.21	10.29	0.021		0.03	0.02	0.3		0.10	I
I	A-B	0.10									I
I	A-C	0.68									I

QUEUE FOR STREAM B-AC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I	* DELAY *	I
I	I	I	(VEH)	I	(MIN)	I	(MIN)	I	(MIN)	I
I	B-AC	I	5.5	I	3.7	I	0.7	I	0.12	I
I	C-AB	I	23.4	I	15.6	I	2.3	I	0.10	I
I	A-B	I	11.0	I	7.3	I		I		I
I	A-C	I	74.3	I	49.6	I		I		I
I	ALL	I	176.2	I	117.5	I	3.0	I	0.02	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 =====



TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 11. Camp Rd - Kirtlington Rd\2013 Base\PM\Site 11.Camp Rd - Kirtlington Rd 2013 Base PM.vpi"  
(drive-on-the-left ) at 10:23:04 on Wednesday, 8 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 11. Camp Rd - Kirtlington Rd 2013 Base PM  
LOCATION: Oxfordshire  
DATE: 09/11/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Road (E)  
ARM B IS Kirtlington Rd  
ARM C IS Camp Road (W)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I ( W )	6.00 M.	I
I	CENTRAL RESERVE WIDTH	I (WCR )	0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I (WC-B)	2.20 M.	I
I	- VISIBILITY	I (VC-B)	95.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I (VB-C)	21.0 M.	I
I	- VISIBILITY TO RIGHT	I (VB-A)	16.0 M.	I
I	- LANE 1 WIDTH	I (WB-C)	2.50 M.	I
I	- LANE 2 WIDTH	I (WB-A)	0.00 M.	I

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	602.27	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	467.65	0.22	0.09	0.14	0.31	I

I	Intercept For Stream C-B	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	628.98	0.24	0.24	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----

I	ARM	I	FLOW SCALE (%)	I
I	A	I	100	I
I	B	I	100	I
I	C	I	100	I

Demand set: Site 11. Camp Rd - Kirtlington Rd 2013 Base PM

TIME PERIOD BEGINS 16.45 AND ENDS 18.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

I	ARM	I	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	I	TOP OF PEAK IS REACHED	I	FLOW STOPS FALLING	I	RATE OF FLOW (VEH/MIN) BEFORE PEAK	I	AT TOP OF PEAK	I	AFTER PEAK
I	ARM A	I	15.00	I	45.00	I	75.00	I	0.31	I	0.47	I	0.31
I	ARM B	I	15.00	I	45.00	I	75.00	I	0.82	I	1.24	I	0.82
I	ARM C	I	15.00	I	45.00	I	75.00	I	0.66	I	0.99	I	0.66



I	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)	I
I	17.45-18.00										I
I	B-AC	0.99	9.30	0.106		0.15	0.12	1.8		0.12	I
I	C-AB	0.07	10.39	0.007		0.01	0.01	0.1		0.10	I
I	A-B	0.04									I
I	A-C	0.33									I

I	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)	I
I	18.00-18.15										I
I	B-AC	0.83	9.32	0.089		0.12	0.10	1.5		0.12	I
I	C-AB	0.06	10.41	0.006		0.01	0.01	0.1		0.10	I
I	A-B	0.04									I
I	A-C	0.28									I

QUEUE FOR STREAM B-AC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.1
17.15	0.1
17.30	0.1
17.45	0.1
18.00	0.1
18.15	0.1

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND (VEH)	I	60.6 (VEH/H)	I	* QUEUEING * (MIN)	I	0.12 (MIN/VEH)	I	* INCLUSIVE QUEUEING * (MIN)	I	0.12 (MIN/VEH)	I
I	B-AC	I	90.8	I	60.6	I	10.9	I	0.12	I	10.9	I	0.12	I
I	C-AB	I	6.9	I	4.6	I	0.7	I	0.10	I	0.7	I	0.10	I
I	A-B	I	4.1	I	2.8	I		I		I		I		I
I	A-C	I	30.3	I	20.2	I		I		I		I		I
I	ALL	I	198.2	I	132.1	I	11.6	I	0.06	I	11.6	I	0.06	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 11. Camp Rd - Kirtlington Rd\2013 Base + Gen\AM\  
Site 11.Camp Rd - Kirtlington Rd 2013 Base + Full Development AM.vpi"  
(drive-on-the-left ) at 16:26:54 on Tuesday, 31 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 11. Camp Rd - Kirtlington Rd 2013 Base + Full Development AM  
LOCATION: Oxfordshire  
DATE: 31/07/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian.Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Road (E)  
ARM B IS Kirtlington Rd  
ARM C IS Camp Road (W)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I ( W )	6.00 M.	I
I	CENTRAL RESERVE WIDTH	I (WCR )	0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I (WC-B)	2.20 M.	I
I	- VISIBILITY	I (VC-B)	95.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I (VB-C)	21.0 M.	I
I	- VISIBILITY TO RIGHT	I (VB-A)	16.0 M.	I
I	- LANE 1 WIDTH	I (WB-C)	2.50 M.	I
I	- LANE 2 WIDTH	I (WB-A)	0.00 M.	I

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	602.27	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	467.65	0.22	0.09	0.14	0.31	I

I	Intercept For Stream C-B	Slope For Stream A-C	Slope For Opposing Stream A-B	I
I	628.98	0.24	0.24	I

NB These values do not allow for any site specific corrections

TRAFFIC DEMAND DATA  
 -----

I	ARM	I	FLOW SCALE(%)	I
I	A	I	100	I
I	B	I	100	I
I	C	I	100	I

Demand set: Site 11. Camp Rd - Kirtlington Rd 2013 Base AM

TIME PERIOD BEGINS 07.45 AND ENDS 09.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

I	ARM	I	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	I	TOP OF PEAK IS REACHED	I	FLOW STOPS FALLING	I	RATE OF FLOW (VEH/MIN) BEFORE PEAK	I	AT TOP OF PEAK	I	AFTER PEAK
I	ARM A	I	15.00	I	45.00	I	75.00	I	3.89	I	5.83	I	3.89
I	ARM B	I	15.00	I	45.00	I	75.00	I	0.71	I	1.07	I	0.71
I	ARM C	I	15.00	I	45.00	I	75.00	I	3.42	I	5.14	I	3.42



I	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)	I
I	08.45-09.00										I
I	B-AC	0.85	6.43	0.133		0.21	0.16	2.4		0.18	I
I	C-AB	0.25	9.35	0.027		0.04	0.03	0.4		0.11	I
I	A-B	1.30									I
I	A-C	3.36									I

I	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)	I
I	09.00-09.15										I
I	B-AC	0.72	6.66	0.107		0.16	0.12	1.9		0.17	I
I	C-AB	0.21	9.53	0.022		0.03	0.02	0.3		0.11	I
I	A-B	1.09									I
I	A-C	2.81									I

QUEUE FOR STREAM B-AC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.2
08.30	0.2
08.45	0.2
09.00	0.2
09.15	0.1

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I	* DELAY *	I
I	I	I	(VEH)	I	(MIN)	I	(MIN)	I	(MIN/VEH)	I
I	B-AC	I	78.5	I	14.2	I	14.2	I	0.18	I
I	C-AB	I	23.4	I	2.6	I	2.6	I	0.11	I
I	A-B	I	119.7	I		I		I		I
I	A-C	I	308.3	I		I		I		I
I	ALL	I	883.7	I	16.8	I	16.8	I	0.02	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 =====



TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 11. Camp Rd - Kirtlington Rd\2013 Base + Gen\PM\  
Site 11.Camp Rd - Kirtlington Rd 2013 Base + Full Development PM.vpi"  
(drive-on-the-left ) at 09:21:22 on Wednesday, 8 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 11. Camp Rd - Kirtlington Rd 2013 Base + Full Development PM  
LOCATION: Oxfordshire  
DATE: 08/08/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA

DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Camp Road (E)  
ARM B IS Kirtlington Rd  
ARM C IS Camp Road (W)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

DATA ITEM	MINOR ROAD B
TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	( W ) 6.00 M.
CENTRAL RESERVE WIDTH	(WCR ) 0.00 M.
MAJOR ROAD RIGHT TURN - WIDTH	(WC-B) 2.20 M.
- VISIBILITY	(VC-B) 95.0 M.
- BLOCKS TRAFFIC	YES
MINOR ROAD - VISIBILITY TO LEFT	(VB-C) 21.0 M.
- VISIBILITY TO RIGHT	(VB-A) 16.0 M.
- LANE 1 WIDTH	(WB-C) 2.50 M.
- LANE 2 WIDTH	(WB-A) 0.00 M.

.SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

Intercept For Stream B-C	Slope For Stream A-C	Slope For Opposing Stream A-B
602.27	0.23	0.09

Intercept For Stream B-A	Slope For Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B
467.65	0.22	0.09	0.14	0.31

Intercept For Stream C-B	Slope For Stream A-C	Slope For Opposing Stream A-B
628.98	0.24	0.24

NB These values do not allow for any site specific corrections

TRAFFIC DEMAND DATA  
 -----

ARM	FLOW SCALE(%)
A	100
B	100
C	100

Demand set: Site 11. Camp Rd - Kirtlington Rd 2013 Base + Gen PM

TIME PERIOD BEGINS 16.45 AND ENDS 18.15

LENGTH OF TIME PERIOD - 90 MINUTES.  
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE SYNTHESISED FROM TURNING COUNT DATA

ARM	NUMBER OF MINUTES FROM START WHEN FLOW STARTS TO RISE	TOP OF PEAK IS REACHED	FLOW STOPS FALLING	RATE OF FLOW (VEH/MIN) BEFORE PEAK	AT TOP OF PEAK	AFTER PEAK
ARM A	15.00	45.00	75.00	3.78	5.66	3.78
ARM B	15.00	45.00	75.00	1.65	2.47	1.65
ARM C	15.00	45.00	75.00	2.58	3.86	2.58



I	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)	I
I	17.45-18.00										I
I	B-AC	1.98	7.32	0.270		0.52	0.38	5.9		0.19	I
I	C-AB	0.07	9.38	0.008		0.01	0.01	0.1		0.11	I
I	A-B	0.97									I
I	A-C	3.55									I

I	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)	I
I	18.00-18.15										I
I	B-AC	1.66	7.52	0.220		0.38	0.29	4.4		0.17	I
I	C-AB	0.06	9.56	0.007		0.01	0.01	0.1		0.11	I
I	A-B	0.82									I
I	A-C	2.97									I

QUEUE FOR STREAM B-AC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.3
17.15	0.4
17.30	0.5 *
17.45	0.5 *
18.00	0.4
18.15	0.3

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I	I
I	I	I	(VEH)	I	(MIN)	I	(MIN)	I	I
I	B-AC	I	181.7	I	34.7	I	34.7	I	0.19
I	C-AB	I	6.9	I	0.7	I	0.7	I	0.11
I	A-B	I	89.5	I		I		I	
I	A-C	I	326.2	I		I		I	
I	ALL	I	880.9	I	35.4	I	35.4	I	0.04

\* 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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 12. Somerton Rd - Camp Rd\2006 Base\AM\Site 12. Camp Rd - Somerton Rd 2006 Base AM.vpi"  
(drive-on-the-left ) at 10:58:21 on Wednesday, 8 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 12. Camp Road - Somerton Rd 2006 Base AM  
LOCATION: Oxfordshire  
DATE: 10/07/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Somerton Rd (N)  
ARM B IS Camp Rd  
ARM C IS Lower Heyford Rd (S)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 89.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 30.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 21.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	9.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	2.80 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.75 M.	I
I	- LENGTH OF FLARED SECTION	I	DERIVED: 0 PCU	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	586.12	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	457.77	0.21	0.08	0.13	0.30	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	625.50	0.24	0.24	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	08.15-08.30										I
I	B-C	0.70	10.42	0.067		0.06	0.07	1.0		0.10	I
I	B-A	0.24	8.59	0.028		0.02	0.03	0.4		0.12	I
I	C-AB	0.24	9.98	0.024		0.02	0.02	0.4		0.10	I
I	A-B	0.77									I
I	A-C	1.06									I

I	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)	I
I	08.30-08.45										I
I	B-C	0.70	10.42	0.067		0.07	0.07	1.1		0.10	I
I	B-A	0.24	8.59	0.028		0.03	0.03	0.4		0.12	I
I	C-AB	0.24	9.98	0.024		0.02	0.02	0.4		0.10	I
I	A-B	0.77									I
I	A-C	1.06									I

I	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)	I
I	08.45-09.00										I
I	B-C	0.57	10.50	0.054		0.07	0.06	0.9		0.10	I
I	B-A	0.19	8.69	0.022		0.03	0.02	0.4		0.12	I
I	C-AB	0.19	10.06	0.019		0.02	0.02	0.3		0.10	I
I	A-B	0.63									I
I	A-C	0.87									I

I	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)	I
I	09.00-09.15										I
I	B-C	0.48	10.56	0.045		0.06	0.05	0.7		0.10	I
I	B-A	0.16	8.76	0.019		0.02	0.02	0.3		0.12	I
I	C-AB	0.16	10.12	0.016		0.02	0.02	0.2		0.10	I
I	A-B	0.53									I
I	A-C	0.73									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0



QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)	(MIN/VEH)	I
I	B-C	I	52.3	I	34.9	I	5.3	I	0.10	I
I	B-A	I	17.9	I	11.9	I	2.1	I	0.12	I
I	C-AB	I	17.9	I	11.9	I	1.8	I	0.10	I
I	A-B	I	57.8	I	38.5	I		I		I
I	A-C	I	79.8	I	53.2	I		I		I
I	ALL	I	273.9	I	182.6	I	9.2	I	0.03	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 12. Somerton Rd - Camp Rd\2006 Base\PM\Site 12. Camp Rd - Somerton Rd 2006 Base PM.vpi"  
(drive-on-the-left ) at 11:04:02 on Wednesday, 8 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 12. Camp Road - Somerton Rd 2006 Base PM  
LOCATION: Oxfordshire  
DATE: 09/11/06  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Chris.Morris [MCCPC062011]  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Somerton Rd (N)  
ARM B IS Camp Rd  
ARM C IS Lower Heyford Rd (S)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I ( W )	6.00 M.	I
I	CENTRAL RESERVE WIDTH	I (WCR )	0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I (WC-B)	2.20 M.	I
I	- VISIBILITY	I (VC-B)	89.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I (VB-C)	30.0 M.	I
I	- VISIBILITY TO RIGHT	I (VB-A)	21.0 M.	I
I	- LANE 1 WIDTH	I (WB-C)	-	I
I	- LANE 2 WIDTH	I (WB-A)	-	I
I	- WIDTH AT 0 M FROM JUNC.	I	9.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	2.80 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.75 M.	I
I	- LENGTH OF FLARED SECTION	I DERIVED:	0 PCU	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	586.12	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	457.77	0.21	0.08	0.13	0.30	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	625.50	0.24	0.24	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	17.15-17.30										I
I	B-C	0.42	11.19	0.038		0.03	0.04	0.6		0.09	I
I	B-A	0.77	8.04	0.096		0.08	0.10	1.5		0.14	I
I	C-AB	0.11	10.12	0.011		0.01	0.01	0.2		0.10	I
I	A-B	0.75									I
I	A-C	0.51									I

I	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)	I
I	17.30-17.45										I
I	B-C	0.42	11.19	0.038		0.04	0.04	0.6		0.09	I
I	B-A	0.77	8.04	0.096		0.10	0.11	1.6		0.14	I
I	C-AB	0.11	10.12	0.011		0.01	0.01	0.2		0.10	I
I	A-B	0.75									I
I	A-C	0.51									I

I	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)	I
I	17.45-18.00										I
I	B-C	0.34	11.28	0.031		0.04	0.03	0.5		0.09	I
I	B-A	0.63	8.12	0.077		0.11	0.08	1.3		0.13	I
I	C-AB	0.09	10.17	0.009		0.01	0.01	0.1		0.10	I
I	A-B	0.61									I
I	A-C	0.42									I

I	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)	I
I	18.00-18.15										I
I	B-C	0.29	11.34	0.025		0.03	0.03	0.4		0.09	I
I	B-A	0.53	8.18	0.064		0.08	0.07	1.1		0.13	I
I	C-AB	0.08	10.22	0.007		0.01	0.01	0.1		0.10	I
I	A-B	0.51									I
I	A-C	0.35									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.1
17.15	0.1
17.30	0.1
17.45	0.1
18.00	0.1
18.15	0.1

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I
I	I	I	(VEH)	I	(MIN)	I	(MIN)	I
I	I	I	(VEH/H)	I	(MIN/VEH)	I	(MIN/VEH)	I
I	B-C	I	31.7	I	2.9	I	0.09	I
I	B-A	I	57.8	I	7.7	I	0.13	I
I	C-AB	I	8.3	I	0.8	I	0.10	I
I	A-B	I	56.4	I		I		I
I	A-C	I	38.5	I		I		I
I	ALL	I	293.2	I	11.4	I	0.04	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 12. Somerton Rd - Camp Rd\2013 Base\AM\Site 12. Camp Rd - Somerton Rd 2013 Base AM.vpi"  
(drive-on-the-left) at 11:14:20 on Wednesday, 8 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 12. Camp Road - Somerton Rd 2013 Base AM  
LOCATION: Oxfordshire  
DATE: 08/08/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Somerton Rd (N)  
ARM B IS Camp Rd  
ARM C IS Lower Heyford Rd (S)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 89.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 30.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 21.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	9.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	2.80 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.75 M.	I
I	- LENGTH OF FLARED SECTION	I	DERIVED: 0 PCU	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	586.12	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	457.77	0.21	0.08	0.13	0.30	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	625.50	0.24	0.24	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----





I	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)	I
I	08.15-08.30										I
I	B-C	0.79	10.37	0.076		0.07	0.08	1.2		0.10	I
I	B-A	0.26	8.53	0.030		0.02	0.03	0.5		0.12	I
I	C-AB	0.26	9.92	0.026		0.02	0.03	0.4		0.10	I
I	A-B	0.88									I
I	A-C	1.19									I

I	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)	I
I	08.30-08.45										I
I	B-C	0.79	10.37	0.076		0.08	0.08	1.2		0.10	I
I	B-A	0.26	8.53	0.030		0.03	0.03	0.5		0.12	I
I	C-AB	0.26	9.92	0.026		0.03	0.03	0.4		0.10	I
I	A-B	0.88									I
I	A-C	1.19									I

I	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)	I
I	08.45-09.00										I
I	B-C	0.64	10.46	0.062		0.08	0.07	1.0		0.10	I
I	B-A	0.21	8.64	0.024		0.03	0.03	0.4		0.12	I
I	C-AB	0.21	10.01	0.021		0.03	0.02	0.3		0.10	I
I	A-B	0.72									I
I	A-C	0.97									I

I	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)	I
I	09.00-09.15										I
I	B-C	0.54	10.52	0.051		0.07	0.05	0.8		0.10	I
I	B-A	0.18	8.72	0.020		0.03	0.02	0.3		0.12	I
I	C-AB	0.18	10.08	0.017		0.02	0.02	0.3		0.10	I
I	A-B	0.60									I
I	A-C	0.82									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.1
08.45	0.1
09.00	0.1
09.15	0.1

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.0
08.15	0.0
08.30	0.0
08.45	0.0
09.00	0.0
09.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I		
I	I	I	I	I	* DELAY *	I	* DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	B-C	I	59.2	I	39.5	I	6.0	I	0.10	I
I	B-A	I	19.3	I	12.8	I	2.3	I	0.12	I
I	C-AB	I	19.3	I	12.8	I	2.0	I	0.10	I
I	A-B	I	66.1	I	44.0	I	I	I	I	I
I	A-C	I	89.5	I	59.6	I	I	I	I	I
I	ALL	I	306.9	I	204.6	I	10.3	I	0.03	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

-----  
FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:  
TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk  
-----

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 12. Somerton Rd - Camp Rd\2013 Base\PM\Site 12. Camp Rd - Somerton Rd 2013 Base PM.vpi"  
(drive-on-the-left) at 11:18:13 on Wednesday, 8 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 12. Camp Road - Somerton Rd 2013 Base PM  
LOCATION: Oxfordshire  
DATE: 08/08/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Somerton Rd (N)  
ARM B IS Camp Rd  
ARM C IS Lower Heyford Rd (S)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 89.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 30.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 21.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	9.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	2.80 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.75 M.	I
I	- LENGTH OF FLARED SECTION	I	DERIVED: 0 PCU	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	586.12	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	457.77	0.21	0.08	0.13	0.30	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	625.50	0.24	0.24	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	17.15-17.30										I
I	B-C	0.48	11.11	0.043		0.04	0.04	0.7		0.09	I
I	B-A	0.88	7.99	0.110		0.10	0.12	1.8		0.14	I
I	C-AB	0.13	10.07	0.013		0.01	0.01	0.2		0.10	I
I	A-B	0.86									I
I	A-C	0.59									I

I	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)	I
I	17.30-17.45										I
I	B-C	0.48	11.11	0.043		0.04	0.04	0.7		0.09	I
I	B-A	0.88	7.99	0.110		0.12	0.12	1.8		0.14	I
I	C-AB	0.13	10.07	0.013		0.01	0.01	0.2		0.10	I
I	A-B	0.86									I
I	A-C	0.59									I

I	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)	I
I	17.45-18.00										I
I	B-C	0.39	11.22	0.035		0.04	0.04	0.6		0.09	I
I	B-A	0.72	8.07	0.089		0.12	0.10	1.5		0.14	I
I	C-AB	0.10	10.14	0.010		0.01	0.01	0.2		0.10	I
I	A-B	0.70									I
I	A-C	0.48									I

I	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)	I
I	18.00-18.15										I
I	B-C	0.33	11.29	0.029		0.04	0.03	0.5		0.09	I
I	B-A	0.60	8.14	0.074		0.10	0.08	1.2		0.13	I
I	C-AB	0.09	10.18	0.009		0.01	0.01	0.1		0.10	I
I	A-B	0.59									I
I	A-C	0.40									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.1
17.15	0.1
17.30	0.1
17.45	0.1
18.00	0.1
18.15	0.1

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)		
I	B-C	I	35.8	I	23.9	I	3.3	I	0.09	I
I	B-A	I	66.1	I	44.0	I	9.0	I	0.14	I
I	C-AB	I	9.6	I	6.4	I	1.0	I	0.10	I
I	A-B	I	64.7	I	43.1	I		I		I
I	A-C	I	44.0	I	29.4	I		I		I
I	ALL	I	333.1	I	222.1	I	13.2	I	0.04	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 =====



TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:

TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 12. Somerton Rd - Camp Rd\2013 Base + Gen\AM\  
Site 12. Camp Rd - Somerton Rd 2013 Base + Full Development AM.vpi"  
(drive-on-the-left ) at 16:57:54 on Tuesday, 31 July 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 12. Camp Road - Somerton Rd 2013 Base + Full Development AM  
LOCATION: Oxfordshire  
DATE: 31/07/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Somerton Rd (N)  
ARM B IS Camp Rd  
ARM C IS Lower Heyford Rd (S)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I ( W )	6.00 M.	I
I	CENTRAL RESERVE WIDTH	I (WCR )	0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I (WC-B)	2.20 M.	I
I	- VISIBILITY	I (VC-B)	89.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I (VB-C)	30.0 M.	I
I	- VISIBILITY TO RIGHT	I (VB-A)	21.0 M.	I
I	- LANE 1 WIDTH	I (WB-C)	-	I
I	- LANE 2 WIDTH	I (WB-A)	-	I
I	- WIDTH AT 0 M FROM JUNC.	I	9.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	2.80 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.75 M.	I
I	- LENGTH OF FLARED SECTION	I DERIVED:	0 PCU	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	586.12	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	457.77	0.21	0.08	0.13	0.30	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	625.50	0.24	0.24	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----



I	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)	I
I	08.15-08.30										I
I	B-C	1.76	10.07	0.175		0.16	0.21	3.1		0.12	I
I	B-A	2.40	7.23	0.332		0.35	0.49	7.0		0.21	I
I	C-AB	1.58	9.30	0.170		0.16	0.20	3.1		0.13	I
I	A-B	3.45									I
I	A-C	1.19									I

I	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)	I
I	08.30-08.45										I
I	B-C	1.76	10.06	0.175		0.21	0.21	3.2		0.12	I
I	B-A	2.40	7.23	0.332		0.49	0.49	7.4		0.21	I
I	C-AB	1.58	9.30	0.170		0.20	0.21	3.1		0.13	I
I	A-B	3.45									I
I	A-C	1.19									I

I	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)	I
I	08.45-09.00										I
I	B-C	1.44	10.37	0.139		0.21	0.16	2.5		0.11	I
I	B-A	1.96	7.46	0.263		0.49	0.36	5.6		0.18	I
I	C-AB	1.29	9.51	0.136		0.21	0.16	2.4		0.12	I
I	A-B	2.82									I
I	A-C	0.97									I

I	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)	I
I	09.00-09.15										I
I	B-C	1.20	10.59	0.114		0.16	0.13	2.0		0.11	I
I	B-A	1.64	7.62	0.216		0.36	0.28	4.3		0.17	I
I	C-AB	1.08	9.66	0.112		0.16	0.13	1.9		0.12	I
I	A-B	2.36									I
I	A-C	0.82									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.2
08.30	0.2
08.45	0.2
09.00	0.2
09.15	0.1

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.3
08.15	0.4
08.30	0.5
08.45	0.5
09.00	0.4
09.15	0.3

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.2
08.30	0.2
08.45	0.2
09.00	0.2
09.15	0.1

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * DELAY *	I	* INCLUSIVE QUEUEING * DELAY *	I
I	I	I	(VEH)	I	(MIN)	I	(MIN)	I
I	I	I	(VEH/H)	I	(MIN/VEH)	I	(MIN/VEH)	I
I	B-C	I	132.1	I	14.9	I	14.9	I
I	B-A	I	180.3	I	33.3	I	33.4	I
I	C-AB	I	118.4	I	14.7	I	14.7	I
I	A-B	I	258.8	I		I		I
I	A-C	I	89.5	I		I		I
I	ALL	I	832.7	I	63.0	I	63.0	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 =====

TRL LIMITED

(C) COPYRIGHT 2006

CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.0 ANALYSIS PROGRAM  
RELEASE 3.0 (JUNE 2006)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT  
BY PERMISSION OF THE CONTROLLER OF HMSO

FOR SALES AND DISTRIBUTION INFORMATION,  
PROGRAM ADVICE AND MAINTENANCE CONTACT:

TRL SOFTWARE BUREAU  
TEL: CROWTHORNE (01344) 770758, FAX: 770864  
EMAIL: SoftwareBureau@trl.co.uk

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS  
IN NO WAY RELIEVED OF HIS RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-

"J:\120000\120669-00\4 Internal Project Data\4-04 Calculations\4-04-06 Junction Analysis\Picady\  
Site 12. Somerton Rd - Camp Rd\2013 Base + Gen\PM\  
Site 12. Camp Rd - Somerton Rd 2013 Base + Full Development PM.vpi"  
(drive-on-the-left ) at 10:36:32 on Wednesday, 8 August 2007

RUN INFORMATION  
\*\*\*\*\*

RUN TITLE: Site 12. Camp Road - Somerton Rd 2013 Base + Full Development PM  
LOCATION: Oxfordshire  
DATE: 31/07/07  
CLIENT: North Oxfordshire Consortium  
ENUMERATOR: Ian Clarke  
JOB NUMBER: 120669  
STATUS: TIA  
DESCRIPTION:

.MAJOR/MINOR JUNCTION CAPACITY AND DELAY  
\*\*\*\*\*

INPUT DATA  
-----

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)  
I  
I  
I  
I  
I  
I  
MINOR ROAD (ARM B)

ARM A IS Somerton Rd (N)  
ARM B IS Camp Rd  
ARM C IS Lower Heyford Rd (S)

STREAM LABELLING CONVENTION  
-----

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B  
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C  
ETC.

-----  
 GEOMETRIC DATA  
 -----

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	( W ) 6.00 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR ) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 2.20 M.	I
I	- VISIBILITY	I	(VC-B) 89.0 M.	I
I	- BLOCKS TRAFFIC	I	YES	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 30.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 21.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) -	I
I	- LANE 2 WIDTH	I	(WB-A) -	I
I	- WIDTH AT 0 M FROM JUNC.	I	9.00 M.	I
I	- WIDTH AT 5 M FROM JUNC.	I	2.80 M.	I
I	- WIDTH AT 10 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 15 M FROM JUNC.	I	2.75 M.	I
I	- WIDTH AT 20 M FROM JUNC.	I	2.75 M.	I
I	- LENGTH OF FLARED SECTION	I	DERIVED: 0 PCU	I

-----  
 .SLOPES AND INTERCEPT  
 -----

(NB:Streams may be combined, in which case capacity will be adjusted )

I	Intercept For Stream B-C	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	586.12	0.23	0.09	I

I	Intercept For Stream B-A	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	Slope For Opposing Stream C-A	Slope For Opposing Stream C-B	I
I	457.77	0.21	0.08	0.13	0.30	I

I	Intercept For Stream C-B	Slope For Opposing Stream A-C	Slope For Opposing Stream A-B	I
I	625.50	0.24	0.24	I

NB These values do not allow for any site specific corrections

-----  
 TRAFFIC DEMAND DATA  
 -----





I	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)	I
I	17.15-17.30										I
I	B-C	1.78	9.87	0.180		0.16	0.22	3.2		0.12	I
I	B-A	3.50	7.37	0.476		0.59	0.88	12.5		0.26	I
I	C-AB	1.43	9.61	0.149		0.14	0.18	2.7		0.12	I
I	A-B	2.79									I
I	A-C	0.59									I

I	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)	I
I	17.30-17.45										I
I	B-C	1.78	9.87	0.180		0.22	0.22	3.3		0.12	I
I	B-A	3.50	7.37	0.476		0.88	0.89	13.3		0.26	I
I	C-AB	1.43	9.61	0.149		0.18	0.18	2.7		0.12	I
I	A-B	2.79									I
I	A-C	0.59									I

I	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)	I
I	17.45-18.00										I
I	B-C	1.45	10.22	0.142		0.22	0.17	2.6		0.11	I
I	B-A	2.86	7.57	0.378		0.89	0.62	9.7		0.21	I
I	C-AB	1.17	9.76	0.120		0.18	0.14	2.1		0.12	I
I	A-B	2.28									I
I	A-C	0.48									I

I	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)	I
I	18.00-18.15										I
I	B-C	1.22	10.47	0.116		0.17	0.13	2.0		0.11	I
I	B-A	2.40	7.72	0.311		0.62	0.46	7.1		0.19	I
I	C-AB	0.98	9.87	0.099		0.14	0.11	1.7		0.11	I
I	A-B	1.91									I
I	A-C	0.40									I

QUEUE FOR STREAM B-C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.1
17.15	0.2
17.30	0.2
17.45	0.2
18.00	0.2
18.15	0.1

QUEUE FOR STREAM B-A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.4
17.15	0.6 *
17.30	0.9 *
17.45	0.9 *
18.00	0.6 *
18.15	0.5

QUEUE FOR STREAM C-AB

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.1
17.15	0.1
17.30	0.2
17.45	0.2
18.00	0.1
18.15	0.1

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	STREAM	I	TOTAL DEMAND	I	* QUEUEING * * DELAY *	I	* INCLUSIVE QUEUEING * * DELAY *	I
I	I	I	(VEH)	I	(VEH/H)	I	(MIN)	I
I	I	I	(VEH)	I	(VEH/H)	I	(MIN)	I
I	I	I	(VEH)	I	(VEH/H)	I	(MIN)	I
I	B-C	I	133.5	I	89.0	I	15.4	I
I	B-A	I	262.9	I	175.3	I	57.6	I
I	C-AB	I	107.4	I	71.6	I	12.8	I
I	A-B	I	209.2	I	139.5	I		I
I	A-C	I	44.0	I	29.4	I		I
I	ALL	I	869.9	I	579.9	I	85.8	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 =====