

Junctions 11
PICADY 11 - Priority Intersection Module
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**Report generation date:** 19/01/2026 17:04:02

- »D1 - 2024 | Base | AM
- »D2 - 2028 | DN | AM
- »D5 - 2028 | DS | AM
- »D8 - 2024 | Base | PM
- »D9 - 2028 | DN | PM
- »D12 - 2028 | DS | PM

**Summary of junction performance**

	AM							PM						
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS
<b>2024 - Base</b>														
B-ACD	D1	0.1	6.44	0.10	A	3.17	A	D8	0.2	6.76	0.19	A	3.81	A
A-BCD		0.0	0.00	0.00	A				0.0	5.14	0.01	A		
D-ABC		0.0	6.45	0.03	A				0.0	5.85	0.02	A		
C-ABD		0.1	6.10	0.10	A				0.1	5.39	0.05	A		
<b>2028 - DN</b>														
B-ACD	D2	0.1	6.51	0.11	A	3.21	A	D9	0.2	6.82	0.20	A	3.84	A
A-BCD		0.0	0.00	0.00	A				0.0	5.14	0.01	A		
D-ABC		0.0	6.52	0.03	A				0.0	5.87	0.02	A		
C-ABD		0.1	6.15	0.11	A				0.1	5.39	0.05	A		
<b>2028 - DS</b>														
B-ACD	D5	0.2	7.20	0.16	A	3.57	A	D12	0.3	7.06	0.21	A	3.52	A
A-BCD		0.0	0.00	0.00	A				0.0	5.05	0.01	A		
D-ABC		0.0	6.57	0.03	A				0.0	5.93	0.02	A		
C-ABD		0.1	6.14	0.11	A				0.1	5.46	0.05	A		

*Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Junction LOS and Junction Delay are demand-weighted averages.*

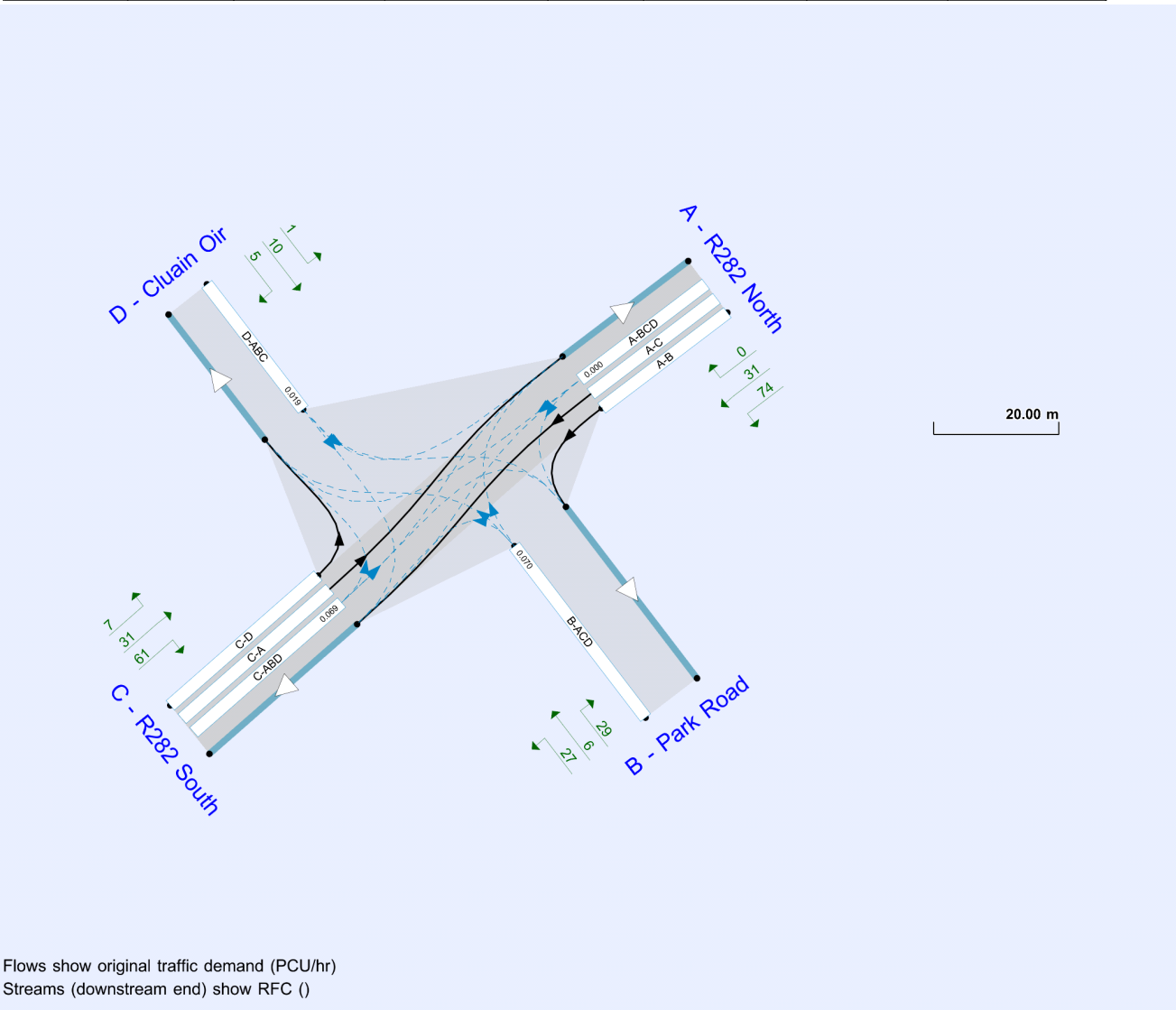
**File summary**

**File Description**

Title	
Location	
Site number	
Date	21/11/2025
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	TOBIN\Carol.Rosario
Description	

**Units**

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)  
Streams (downstream end) show RFC ( )

*The junction diagram reflects the last run of Junctions.*

### Analysis Options

PICADY short flare model	Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
JUNCTIONS 11.1	5.75						0.85	36.00	20.00		

### Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2024	Base	AM	ONE HOUR	08:15	09:45	15	✓
D2	2028	DN	AM	ONE HOUR	08:15	09:45	15	✓
D5	2028	DS	AM	ONE HOUR	08:15	09:45	15	✓
D8	2024	Base	PM	ONE HOUR	16:45	18:15	15	✓
D9	2028	DN	PM	ONE HOUR	16:45	18:15	15	✓
D12	2028	DS	PM	ONE HOUR	16:45	18:15	15	✓

### Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

# D1 - 2024 | Base | AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R282/ Park Rd/ Cluain Oir	Crossroads	Two-way	Two-way	Two-way	Two-way		3.17	A

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.17	A

## Arms

### Arms

Arm	Name	Description	Arm type
A	R282 North		Major
B	Park Road		Minor
C	R282 South		Major
D	Cluain Oir		Minor

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - R282 North	7.50			200.0	✓	0.00
C - R282 South	7.50			200.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

### Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Park Road	One lane	4.04	200	100
D - Cluain Oir	One lane	3.60	200	150

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
A-D	690	-	-	-	-	-	-	0.250	0.357	0.250	-	-	-
B-A	657	0.112	0.283	0.283	-	-	-	0.178	0.404	-	0.283	0.283	0.141
B-C	758	0.109	0.275	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	657	0.112	0.283	0.283	-	-	-	0.178	0.404	0.178	-	-	-
B-D, offside lane	657	0.112	0.283	0.283	-	-	-	0.178	0.404	0.178	-	-	-
C-B	690	0.250	0.250	0.357	-	-	-	-	-	-	-	-	-
D-A	762	-	-	-	-	-	-	0.276	-	0.109	-	-	-
D-B, nearside lane	660	0.179	0.179	0.406	-	-	-	0.284	0.284	0.112	-	-	-
D-B, offside lane	660	0.179	0.179	0.406	-	-	-	0.284	0.284	0.112	-	-	-
D-C	660	-	0.179	0.406	0.142	0.284	0.284	0.284	0.284	0.112	-	-	-

The slopes and intercepts shown above include custom intercept adjustments only.  
 Streams may be combined, in which case capacity will be adjusted.  
 Values are shown for the first time segment only; they may differ for subsequent time segments.

## Traffic Demand

### Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2024	Base	AM	ONE HOUR	08:15	09:45	15	✓

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - R282 North		ONE HOUR	✓	105	100.000
B - Park Road		ONE HOUR	✓	62	100.000
C - R282 South		ONE HOUR	✓	99	100.000
D - Cluain Oir		ONE HOUR	✓	16	100.000

## Origin-Destination Data

### Demand (PCU/hr)

From		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0	74	31	0
	B - Park Road	29	0	27	6
	C - R282 South	31	61	0	7
	D - Cluain Oir	1	10	5	0

### Proportions

From		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0.00	0.71	0.29	0.00
	B - Park Road	0.47	0.00	0.44	0.10
	C - R282 South	0.31	0.61	0.00	0.07
	D - Cluain Oir	0.06	0.63	0.31	0.00

## Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

### Heavy Vehicle %

From		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0	6	3	0
	B - Park Road	5	0	7	0
	C - R282 South	3	5	0	2
	D - Cluain Oir	0	13	0	0

### Average PCU Per Veh

From		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	1.000	1.057	1.033	1.000
	B - Park Road	1.048	1.000	1.065	1.000
	C - R282 South	1.030	1.046	1.000	1.020
	D - Cluain Oir	1.000	1.125	1.000	1.000

## Detailed Demand Data

### Demand for each time segment

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
08:15-08:30	A - R282 North	79	79
	B - Park Road	47	47
	C - R282 South	74	74
	D - Cluain Oir	12	12
08:30-08:45	A - R282 North	94	94
	B - Park Road	56	56
	C - R282 South	89	89
	D - Cluain Oir	14	14
08:45-09:00	A - R282 North	115	115
	B - Park Road	68	68
	C - R282 South	108	108
	D - Cluain Oir	18	18
09:00-09:15	A - R282 North	115	115
	B - Park Road	68	68
	C - R282 South	108	108
	D - Cluain Oir	18	18
09:15-09:30	A - R282 North	94	94
	B - Park Road	56	56
	C - R282 South	89	89
	D - Cluain Oir	14	14
09:30-09:45	A - R282 North	79	79
	B - Park Road	47	47
	C - R282 South	74	74
	D - Cluain Oir	12	12

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.10	6.44	0.1	A	57	85
A-BCD	0.00	0.00	0.0	A	0	0
A-B					68	102
A-C					28	42
D-ABC	0.03	6.45	0.0	A	15	22
C-ABD	0.10	6.10	0.1	A	59	88
C-D					6	9
C-A					26	39

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	47	12	0.00	669	0.070	46	0.0	0.1	6.071	A
A-BCD	0	0	0.00	666	0.000	0	0.0	0.0	0.000	A
A-B	56	14	0.00			56				
A-C	23	6	0.00			23				
D-ABC	12	3	0.00	633	0.019	12	0.0	0.0	6.233	A
C-ABD	48	12	0.00	688	0.069	47	0.0	0.1	5.869	A
C-D	5	1	0.00			5				
C-A	22	5	0.00			22				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	56	14	0.00	663	0.084	56	0.1	0.1	6.224	A
A-BCD	0	0	0.00	662	0.000	0	0.0	0.0	0.000	A
A-B	67	17	0.00			67				
A-C	27	7	0.00			27				
D-ABC	14	4	0.00	626	0.023	14	0.0	0.0	6.324	A
C-ABD	57	14	0.00	688	0.083	57	0.1	0.1	5.966	A
C-D	6	1	0.00			6				
C-A	26	6	0.00			26				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	68	17	0.00	655	0.104	68	0.1	0.1	6.441	A
A-BCD	0	0	0.00	655	0.000	0	0.0	0.0	0.000	A
A-B	81	20	0.00			81				
A-C	34	8	0.00			34				
D-ABC	18	4	0.00	617	0.029	18	0.0	0.0	6.452	A
C-ABD	71	18	0.00	688	0.103	71	0.1	0.1	6.100	A
C-D	7	2	0.00			7				
C-A	31	8	0.00			31				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	68	17	0.00	655	0.104	68	0.1	0.1	6.441	A
A-BCD	0	0	0.00	655	0.000	0	0.0	0.0	0.000	A
A-B	81	20	0.00			81				
A-C	34	8	0.00			34				
D-ABC	18	4	0.00	617	0.029	18	0.0	0.0	6.452	A
C-ABD	71	18	0.00	688	0.103	71	0.1	0.1	6.103	A
C-D	7	2	0.00			7				
C-A	31	8	0.00			31				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	56	14	0.00	663	0.084	56	0.1	0.1	6.229	A
A-BCD	0	0	0.00	662	0.000	0	0.0	0.0	0.000	A
A-B	67	17	0.00			67				
A-C	27	7	0.00			27				
D-ABC	14	4	0.00	626	0.023	14	0.0	0.0	6.327	A
C-ABD	57	14	0.00	688	0.083	57	0.1	0.1	5.969	A
C-D	6	1	0.00			6				
C-A	26	6	0.00			26				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	47	12	0.00	669	0.070	47	0.1	0.1	6.078	A
A-BCD	0	0	0.00	666	0.000	0	0.0	0.0	0.000	A
A-B	56	14	0.00			56				
A-C	23	6	0.00			23				
D-ABC	12	3	0.00	632	0.019	12	0.0	0.0	6.235	A
C-ABD	48	12	0.00	688	0.069	48	0.1	0.1	5.874	A
C-D	5	1	0.00			5				
C-A	22	5	0.00			22				

# D2 - 2028 | DN | AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R282/ Park Rd/ Cluain Oir	Crossroads	Two-way	Two-way	Two-way	Two-way		3.21	A

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.21	A

## Traffic Demand

### Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2028	DN	AM	ONE HOUR	08:15	09:45	15	✓

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - R282 North		ONE HOUR	✓	108	100.000
B - Park Road		ONE HOUR	✓	64	100.000
C - R282 South		ONE HOUR	✓	102	100.000
D - Cluain Oir		ONE HOUR	✓	17	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0	76	32	0
	B - Park Road	30	0	28	6
	C - R282 South	32	62	0	7
	D - Cluain Oir	1	11	5	0

### Proportions

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0.00	0.71	0.29	0.00
	B - Park Road	0.47	0.00	0.44	0.10
	C - R282 South	0.32	0.61	0.00	0.07
	D - Cluain Oir	0.06	0.63	0.31	0.00

## Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

**Heavy Vehicle %**

From	To			
	A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
A - R282 North	0	6	4	0
B - Park Road	5	0	7	0
C - R282 South	3	5	0	2
D - Cluain Oir	0	14	0	0

**Average PCU Per Veh**

From	To			
	A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
A - R282 North	1.000	1.063	1.037	1.000
B - Park Road	1.053	1.000	1.070	1.000
C - R282 South	1.033	1.050	1.000	1.022
D - Cluain Oir	1.000	1.136	1.000	1.000

## Detailed Demand Data

**Demand for each time segment**

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
08:15-08:30	A - R282 North	81	81
	B - Park Road	48	48
	C - R282 South	77	77
	D - Cluain Oir	12	12
08:30-08:45	A - R282 North	97	97
	B - Park Road	58	58
	C - R282 South	92	92
	D - Cluain Oir	15	15
08:45-09:00	A - R282 North	119	119
	B - Park Road	71	71
	C - R282 South	112	112
	D - Cluain Oir	18	18
09:00-09:15	A - R282 North	119	119
	B - Park Road	71	71
	C - R282 South	112	112
	D - Cluain Oir	18	18
09:15-09:30	A - R282 North	97	97
	B - Park Road	58	58
	C - R282 South	92	92
	D - Cluain Oir	15	15
09:30-09:45	A - R282 North	81	81
	B - Park Road	48	48
	C - R282 South	77	77
	D - Cluain Oir	12	12

## Results

**Results Summary for whole modelled period**

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.11	6.51	0.1	A	59	88
A-BCD	0.00	0.00	0.0	A	0	0
A-B					70	105
A-C					29	43
D-ABC	0.03	6.52	0.0	A	15	23
C-ABD	0.11	6.15	0.1	A	61	91
C-D					6	9
C-A					27	40

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	48	12	0.00	668	0.072	48	0.0	0.1	6.121	A
A-BCD	0	0	0.00	666	0.000	0	0.0	0.0	0.000	A
A-B	58	14	0.00			58				
A-C	24	6	0.00			24				
D-ABC	12	3	0.00	631	0.020	12	0.0	0.0	6.294	A
C-ABD	49	12	0.00	688	0.071	49	0.0	0.1	5.905	A
C-D	5	1	0.00			5				
C-A	22	6	0.00			22				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	58	14	0.00	662	0.087	58	0.1	0.1	6.281	A
A-BCD	0	0	0.00	661	0.000	0	0.0	0.0	0.000	A
A-B	69	17	0.00			69				
A-C	28	7	0.00			28				
D-ABC	15	4	0.00	624	0.024	15	0.0	0.0	6.389	A
C-ABD	59	15	0.00	688	0.086	59	0.1	0.1	6.005	A
C-D	6	2	0.00			6				
C-A	26	7	0.00			26				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	71	18	0.00	654	0.108	71	0.1	0.1	6.509	A
A-BCD	0	0	0.00	654	0.000	0	0.0	0.0	0.000	A
A-B	84	21	0.00			84				
A-C	35	9	0.00			35				
D-ABC	18	5	0.00	615	0.030	18	0.0	0.0	6.524	A
C-ABD	73	18	0.00	688	0.107	73	0.1	0.1	6.146	A
C-D	7	2	0.00			7				
C-A	32	8	0.00			32				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	71	18	0.00	654	0.108	71	0.1	0.1	6.509	A
A-BCD	0	0	0.00	654	0.000	0	0.0	0.0	0.000	A
A-B	84	21	0.00			84				
A-C	35	9	0.00			35				
D-ABC	18	5	0.00	615	0.030	18	0.0	0.0	6.524	A
C-ABD	73	18	0.00	688	0.107	73	0.1	0.1	6.148	A
C-D	7	2	0.00			7				
C-A	32	8	0.00			32				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	58	14	0.00	662	0.087	58	0.1	0.1	6.286	A
A-BCD	0	0	0.00	661	0.000	0	0.0	0.0	0.000	A
A-B	69	17	0.00			69				
A-C	28	7	0.00			28				
D-ABC	15	4	0.00	624	0.024	15	0.0	0.0	6.393	A
C-ABD	59	15	0.00	688	0.086	59	0.1	0.1	6.009	A
C-D	6	2	0.00			6				
C-A	26	7	0.00			26				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	48	12	0.00	668	0.072	48	0.1	0.1	6.131	A
A-BCD	0	0	0.00	665	0.000	0	0.0	0.0	0.000	A
A-B	58	14	0.00			58				
A-C	24	6	0.00			24				
D-ABC	12	3	0.00	631	0.020	13	0.0	0.0	6.298	A
C-ABD	49	12	0.00	688	0.071	49	0.1	0.1	5.913	A
C-D	5	1	0.00			5				
C-A	22	6	0.00			22				

# D5 - 2028 | DS | AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R282/ Park Rd/ Cluain Oir	Crossroads	Two-way	Two-way	Two-way	Two-way		3.57	A

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.57	A

## Traffic Demand

### Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2028	DS	AM	ONE HOUR	08:15	09:45	15	✓

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - R282 North		ONE HOUR	✓	116	100.000
B - Park Road		ONE HOUR	✓	93	100.000
C - R282 South		ONE HOUR	✓	107	100.000
D - Cluain Oir		ONE HOUR	✓	17	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0	80	36	0
	B - Park Road	59	0	28	6
	C - R282 South	37	62	0	7
	D - Cluain Oir	1	11	5	0

### Proportions

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0.00	0.69	0.31	0.00
	B - Park Road	0.63	0.00	0.30	0.07
	C - R282 South	0.35	0.58	0.00	0.07
	D - Cluain Oir	0.06	0.63	0.31	0.00

## Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

**Heavy Vehicle %**

From	To			
	A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
A - R282 North	0	9	8	0
B - Park Road	8	0	5	0
C - R282 South	8	5	0	2
D - Cluain Oir	0	14	0	0

**Average PCU Per Veh**

From	To			
	A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
A - R282 North	1.000	1.089	1.075	1.000
B - Park Road	1.075	1.000	1.049	1.000
C - R282 South	1.077	1.048	1.000	1.021
D - Cluain Oir	1.000	1.136	1.000	1.000

## Detailed Demand Data

**Demand for each time segment**

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
08:15-08:30	A - R282 North	88	88
	B - Park Road	70	70
	C - R282 South	80	80
	D - Cluain Oir	12	12
08:30-08:45	A - R282 North	105	105
	B - Park Road	84	84
	C - R282 South	96	96
	D - Cluain Oir	15	15
08:45-09:00	A - R282 North	128	128
	B - Park Road	102	102
	C - R282 South	117	117
	D - Cluain Oir	18	18
09:00-09:15	A - R282 North	128	128
	B - Park Road	102	102
	C - R282 South	117	117
	D - Cluain Oir	18	18
09:15-09:30	A - R282 North	105	105
	B - Park Road	84	84
	C - R282 South	96	96
	D - Cluain Oir	15	15
09:30-09:45	A - R282 North	88	88
	B - Park Road	70	70
	C - R282 South	80	80
	D - Cluain Oir	12	12

## Results

**Results Summary for whole modelled period**

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.16	7.20	0.2	A	85	128
A-BCD	0.00	0.00	0.0	A	0	0
A-B					73	110
A-C					33	50
D-ABC	0.03	6.57	0.0	A	15	23
C-ABD	0.11	6.14	0.1	A	61	91
C-D					6	9
C-A					31	46

### Main Results for each time segment

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	70	18	0.00	650	0.108	70	0.0	0.1	6.579	A
A-BCD	0	0	0.00	665	0.000	0	0.0	0.0	0.000	A
A-B	60	15	0.00			60				
A-C	27	7	0.00			27				
D-ABC	12	3	0.00	628	0.020	12	0.0	0.0	6.324	A
C-ABD	49	12	0.00	689	0.072	49	0.0	0.1	5.899	A
C-D	5	1	0.00			5				
C-A	26	6	0.00			26				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	84	21	0.00	643	0.130	83	0.1	0.2	6.829	A
A-BCD	0	0	0.00	660	0.000	0	0.0	0.0	0.000	A
A-B	72	18	0.00			72				
A-C	33	8	0.00			33				
D-ABC	15	4	0.00	621	0.024	15	0.0	0.0	6.426	A
C-ABD	60	15	0.00	689	0.086	59	0.1	0.1	6.000	A
C-D	6	2	0.00			6				
C-A	30	8	0.00			30				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	102	26	0.00	633	0.162	102	0.2	0.2	7.193	A
A-BCD	0	0	0.00	653	0.000	0	0.0	0.0	0.000	A
A-B	88	22	0.00			88				
A-C	40	10	0.00			40				
D-ABC	18	5	0.00	611	0.030	18	0.0	0.0	6.571	A
C-ABD	74	18	0.00	689	0.107	74	0.1	0.1	6.143	A
C-D	7	2	0.00			7				
C-A	36	9	0.00			36				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	102	26	0.00	633	0.162	102	0.2	0.2	7.197	A
A-BCD	0	0	0.00	653	0.000	0	0.0	0.0	0.000	A
A-B	88	22	0.00			88				
A-C	40	10	0.00			40				
D-ABC	18	5	0.00	611	0.030	18	0.0	0.0	6.572	A
C-ABD	74	18	0.00	689	0.107	74	0.1	0.1	6.144	A
C-D	7	2	0.00			7				
C-A	36	9	0.00			36				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	84	21	0.00	643	0.130	84	0.2	0.2	6.837	A
A-BCD	0	0	0.00	660	0.000	0	0.0	0.0	0.000	A
A-B	72	18	0.00			72				
A-C	33	8	0.00			33				
D-ABC	15	4	0.00	621	0.024	15	0.0	0.0	6.427	A
C-ABD	60	15	0.00	689	0.086	60	0.1	0.1	6.007	A
C-D	6	2	0.00			6				
C-A	30	8	0.00			30				

09:30 - 09:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	70	18	0.00	650	0.108	70	0.2	0.1	6.596	A
A-BCD	0	0	0.00	665	0.000	0	0.0	0.0	0.000	A
A-B	60	15	0.00			60				
A-C	27	7	0.00			27				
D-ABC	12	3	0.00	628	0.020	13	0.0	0.0	6.326	A
C-ABD	49	12	0.00	689	0.072	49	0.1	0.1	5.908	A
C-D	5	1	0.00			5				
C-A	26	6	0.00			26				

# D8 - 2024 | Base | PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R282/ Park Rd/ Cluain Oir	Crossroads	Two-way	Two-way	Two-way	Two-way		3.81	A

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.81	A

## Traffic Demand

### Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2024	Base	PM	ONE HOUR	16:45	18:15	15	✓

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - R282 North		ONE HOUR	✓	69	100.000
B - Park Road		ONE HOUR	✓	117	100.000
C - R282 South		ONE HOUR	✓	76	100.000
D - Cluain Oir		ONE HOUR	✓	12	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0	44	22	3
	B - Park Road	55	0	53	9
	C - R282 South	43	29	0	4
	D - Cluain Oir	1	9	2	0

### Proportions

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0.00	0.64	0.32	0.04
	B - Park Road	0.47	0.00	0.45	0.08
	C - R282 South	0.57	0.38	0.00	0.05
	D - Cluain Oir	0.08	0.75	0.17	0.00

## Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

**Heavy Vehicle %**

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0	3	0	0
	B - Park Road	0	0	4	0
	C - R282 South	0	0	0	0
	D - Cluain Oir	0	0	0	0

**Average PCU Per Veh**

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	1.000	1.033	1.000	1.000
	B - Park Road	1.000	1.000	1.043	1.000
	C - R282 South	1.000	1.000	1.000	1.000
	D - Cluain Oir	1.000	1.000	1.000	1.000

## Detailed Demand Data

**Demand for each time segment**

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - R282 North	52	52
	B - Park Road	88	88
	C - R282 South	57	57
	D - Cluain Oir	9	9
17:00-17:15	A - R282 North	62	62
	B - Park Road	105	105
	C - R282 South	68	68
	D - Cluain Oir	11	11
17:15-17:30	A - R282 North	76	76
	B - Park Road	129	129
	C - R282 South	84	84
	D - Cluain Oir	13	13
17:30-17:45	A - R282 North	76	76
	B - Park Road	129	129
	C - R282 South	84	84
	D - Cluain Oir	13	13
17:45-18:00	A - R282 North	62	62
	B - Park Road	105	105
	C - R282 South	68	68
	D - Cluain Oir	11	11
18:00-18:15	A - R282 North	52	52
	B - Park Road	88	88
	C - R282 South	57	57
	D - Cluain Oir	9	9

## Results

**Results Summary for whole modelled period**

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.19	6.76	0.2	A	107	161
A-BCD	0.01	5.14	0.0	A	3	5
A-B					40	61
A-C					20	30
D-ABC	0.02	5.85	0.0	A	11	17
C-ABD	0.05	5.39	0.1	A	28	43
C-D					4	5
C-A					38	57

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	88	22	0.00	680	0.129	87	0.0	0.2	6.180	A
A-BCD	2	0.61	0.00	704	0.003	2	0.0	0.0	5.135	A
A-B	33	8	0.00			33				
A-C	17	4	0.00			17				
D-ABC	9	2	0.00	641	0.014	9	0.0	0.0	5.699	A
C-ABD	23	6	0.00	699	0.033	23	0.0	0.0	5.325	A
C-D	3	0.73	0.00			3				
C-A	31	8	0.00			31				

### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	105	26	0.00	677	0.155	105	0.2	0.2	6.416	A
A-BCD	3	0.74	0.00	707	0.004	3	0.0	0.0	5.119	A
A-B	40	10	0.00			40				
A-C	20	5	0.00			20				
D-ABC	11	3	0.00	635	0.017	11	0.0	0.0	5.763	A
C-ABD	28	7	0.00	700	0.040	28	0.0	0.0	5.351	A
C-D	3	0.86	0.00			3				
C-A	37	9	0.00			37				

### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	129	32	0.00	671	0.192	129	0.2	0.2	6.755	A
A-BCD	4	0.92	0.00	711	0.005	4	0.0	0.0	5.096	A
A-B	49	12	0.00			49				
A-C	24	6	0.00			24				
D-ABC	13	3	0.00	628	0.021	13	0.0	0.0	5.854	A
C-ABD	34	9	0.00	703	0.049	34	0.0	0.1	5.385	A
C-D	4	1	0.00			4				
C-A	45	11	0.00			45				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	129	32	0.00	671	0.192	129	0.2	0.2	6.761	A
A-BCD	4	0.92	0.00	711	0.005	4	0.0	0.0	5.099	A
A-B	49	12	0.00			49				
A-C	24	6	0.00			24				
D-ABC	13	3	0.00	628	0.021	13	0.0	0.0	5.854	A
C-ABD	34	9	0.00	703	0.049	34	0.1	0.1	5.386	A
C-D	4	1	0.00			4				
C-A	45	11	0.00			45				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	105	26	0.00	677	0.155	105	0.2	0.2	6.424	A
A-BCD	3	0.74	0.00	707	0.004	3	0.0	0.0	5.123	A
A-B	40	10	0.00			40				
A-C	20	5	0.00			20				
D-ABC	11	3	0.00	635	0.017	11	0.0	0.0	5.766	A
C-ABD	28	7	0.00	700	0.040	28	0.1	0.0	5.354	A
C-D	3	0.86	0.00			3				
C-A	37	9	0.00			37				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	88	22	0.00	680	0.129	88	0.2	0.2	6.196	A
A-BCD	2	0.61	0.00	704	0.003	2	0.0	0.0	5.139	A
A-B	33	8	0.00			33				
A-C	17	4	0.00			17				
D-ABC	9	2	0.00	641	0.014	9	0.0	0.0	5.700	A
C-ABD	23	6	0.00	699	0.033	23	0.0	0.0	5.330	A
C-D	3	0.73	0.00			3				
C-A	31	8	0.00			31				

# D9 - 2028 | DN | PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R282/ Park Rd/ Cluain Oir	Crossroads	Two-way	Two-way	Two-way	Two-way		3.84	A

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.84	A

## Traffic Demand

### Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2028	DN	PM	ONE HOUR	16:45	18:15	15	✓

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - R282 North		ONE HOUR	✓	71	100.000
B - Park Road		ONE HOUR	✓	120	100.000
C - R282 South		ONE HOUR	✓	78	100.000
D - Cluain Oir		ONE HOUR	✓	12	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0	46	23	3
	B - Park Road	56	0	55	9
	C - R282 South	44	30	0	4
	D - Cluain Oir	1	9	2	0

### Proportions

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0.00	0.64	0.32	0.04
	B - Park Road	0.47	0.00	0.46	0.08
	C - R282 South	0.57	0.38	0.00	0.05
	D - Cluain Oir	0.08	0.75	0.16	0.00

## Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

**Heavy Vehicle %**

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0	4	0	0
	B - Park Road	0	0	5	0
	C - R282 South	0	0	0	0
	D - Cluain Oir	0	0	0	0

**Average PCU Per Veh**

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	1.000	1.037	1.000	1.000
	B - Park Road	1.000	1.000	1.047	1.000
	C - R282 South	1.000	1.000	1.000	1.000
	D - Cluain Oir	1.000	1.000	1.000	1.000

## Detailed Demand Data

**Demand for each time segment**

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - R282 North	54	54
	B - Park Road	91	91
	C - R282 South	59	59
	D - Cluain Oir	9	9
17:00-17:15	A - R282 North	64	64
	B - Park Road	108	108
	C - R282 South	70	70
	D - Cluain Oir	11	11
17:15-17:30	A - R282 North	78	78
	B - Park Road	132	132
	C - R282 South	86	86
	D - Cluain Oir	13	13
17:30-17:45	A - R282 North	78	78
	B - Park Road	132	132
	C - R282 South	86	86
	D - Cluain Oir	13	13
17:45-18:00	A - R282 North	64	64
	B - Park Road	108	108
	C - R282 South	70	70
	D - Cluain Oir	11	11
18:00-18:15	A - R282 North	54	54
	B - Park Road	91	91
	C - R282 South	59	59
	D - Cluain Oir	9	9

## Results

**Results Summary for whole modelled period**

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.20	6.82	0.2	A	110	166
A-BCD	0.01	5.14	0.0	A	3	5
A-B					42	62
A-C					21	31
D-ABC	0.02	5.87	0.0	A	11	17
C-ABD	0.05	5.39	0.1	A	29	44
C-D					4	5
C-A					39	58

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	91	23	0.00	680	0.133	90	0.0	0.2	6.219	A
A-BCD	3	0.63	0.00	705	0.004	3	0.0	0.0	5.134	A
A-B	34	9	0.00			34				
A-C	17	4	0.00			17				
D-ABC	9	2	0.00	640	0.014	9	0.0	0.0	5.707	A
C-ABD	24	6	0.00	699	0.034	23	0.0	0.0	5.329	A
C-D	3	0.75	0.00			3				
C-A	32	8	0.00			32				

### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	108	27	0.00	676	0.160	108	0.2	0.2	6.465	A
A-BCD	3	0.76	0.00	708	0.004	3	0.0	0.0	5.117	A
A-B	41	10	0.00			41				
A-C	20	5	0.00			20				
D-ABC	11	3	0.00	634	0.017	11	0.0	0.0	5.773	A
C-ABD	28	7	0.00	701	0.041	28	0.0	0.0	5.355	A
C-D	4	0.88	0.00			4				
C-A	38	9	0.00			38				

### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	132	33	0.00	671	0.197	132	0.2	0.2	6.818	A
A-BCD	4	0.95	0.00	712	0.005	4	0.0	0.0	5.094	A
A-B	50	12	0.00			50				
A-C	25	6	0.00			25				
D-ABC	13	3	0.00	627	0.021	13	0.0	0.0	5.867	A
C-ABD	35	9	0.00	703	0.050	35	0.0	0.1	5.391	A
C-D	4	1	0.00			4				
C-A	46	11	0.00			46				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	132	33	0.00	671	0.197	132	0.2	0.2	6.824	A
A-BCD	4	0.95	0.00	712	0.005	4	0.0	0.0	5.095	A
A-B	50	12	0.00			50				
A-C	25	6	0.00			25				
D-ABC	13	3	0.00	627	0.021	13	0.0	0.0	5.867	A
C-ABD	35	9	0.00	703	0.050	35	0.1	0.1	5.391	A
C-D	4	1	0.00			4				
C-A	46	11	0.00			46				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	108	27	0.00	676	0.160	108	0.2	0.2	6.472	A
A-BCD	3	0.76	0.00	708	0.004	3	0.0	0.0	5.119	A
A-B	41	10	0.00			41				
A-C	20	5	0.00			20				
D-ABC	11	3	0.00	634	0.017	11	0.0	0.0	5.776	A
C-ABD	28	7	0.00	701	0.041	29	0.1	0.0	5.356	A
C-D	4	0.88	0.00			4				
C-A	38	9	0.00			38				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	91	23	0.00	680	0.133	91	0.2	0.2	6.235	A
A-BCD	3	0.63	0.00	705	0.004	3	0.0	0.0	5.135	A
A-B	34	9	0.00			34				
A-C	17	4	0.00			17				
D-ABC	9	2	0.00	640	0.014	9	0.0	0.0	5.710	A
C-ABD	24	6	0.00	699	0.034	24	0.0	0.0	5.334	A
C-D	3	0.75	0.00			3				
C-A	32	8	0.00			32				

# D12 - 2028 | DS | PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R282/ Park Rd/ Cluain Oir	Crossroads	Two-way	Two-way	Two-way	Two-way		3.52	A

### Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.52	A

## Traffic Demand

### Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2028	DS	PM	ONE HOUR	16:45	18:15	15	✓

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - R282 North		ONE HOUR	✓	105	100.000
B - Park Road		ONE HOUR	✓	124	100.000
C - R282 South		ONE HOUR	✓	83	100.000
D - Cluain Oir		ONE HOUR	✓	12	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0	74	27	3
	B - Park Road	60	0	55	9
	C - R282 South	49	30	0	4
	D - Cluain Oir	1	9	2	0

### Proportions

		To			
		A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
From	A - R282 North	0.00	0.71	0.26	0.03
	B - Park Road	0.48	0.00	0.44	0.07
	C - R282 South	0.59	0.36	0.00	0.05
	D - Cluain Oir	0.08	0.75	0.16	0.00

## Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

**Heavy Vehicle %**

From	To			
	A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
A - R282 North	0	6	5	0
B - Park Road	3	0	5	0
C - R282 South	6	0	0	0
D - Cluain Oir	0	0	0	0

**Average PCU Per Veh**

From	To			
	A - R282 North	B - Park Road	C - R282 South	D - Cluain Oir
A - R282 North	1.000	1.059	1.046	1.000
B - Park Road	1.029	1.000	1.046	1.000
C - R282 South	1.058	1.000	1.000	1.000
D - Cluain Oir	1.000	1.000	1.000	1.000

## Detailed Demand Data

**Demand for each time segment**

Time Segment	Arm	Demand (PCU/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - R282 North	79	79
	B - Park Road	93	93
	C - R282 South	62	62
	D - Cluain Oir	9	9
17:00-17:15	A - R282 North	94	94
	B - Park Road	111	111
	C - R282 South	74	74
	D - Cluain Oir	11	11
17:15-17:30	A - R282 North	115	115
	B - Park Road	136	136
	C - R282 South	91	91
	D - Cluain Oir	13	13
17:30-17:45	A - R282 North	115	115
	B - Park Road	136	136
	C - R282 South	91	91
	D - Cluain Oir	13	13
17:45-18:00	A - R282 North	94	94
	B - Park Road	111	111
	C - R282 South	74	74
	D - Cluain Oir	11	11
18:00-18:15	A - R282 North	79	79
	B - Park Road	93	93
	C - R282 South	62	62
	D - Cluain Oir	9	9

## Results

**Results Summary for whole modelled period**

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.21	7.06	0.3	A	114	171
A-BCD	0.01	5.05	0.0	A	3	5
A-B					68	102
A-C					25	37
D-ABC	0.02	5.93	0.0	A	11	17
C-ABD	0.05	5.46	0.1	A	29	44
C-D					4	5
C-A					43	64

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	93	23	0.00	675	0.138	93	0.0	0.2	6.388	A
A-BCD	3	0.65	0.00	720	0.004	3	0.0	0.0	5.047	A
A-B	56	14	0.00			56				
A-C	20	5	0.00			20				
D-ABC	9	2	0.00	635	0.014	9	0.0	0.0	5.750	A
C-ABD	24	6	0.00	695	0.034	24	0.0	0.0	5.377	A
C-D	3	0.75	0.00			3				
C-A	35	9	0.00			35				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	111	28	0.00	670	0.166	111	0.2	0.2	6.660	A
A-BCD	3	0.80	0.00	726	0.004	3	0.0	0.0	5.012	A
A-B	67	17	0.00			67				
A-C	24	6	0.00			24				
D-ABC	11	3	0.00	629	0.017	11	0.0	0.0	5.825	A
C-ABD	29	7	0.00	696	0.041	29	0.0	0.0	5.412	A
C-D	4	0.88	0.00			4				
C-A	42	11	0.00			42				

#### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	136	34	0.00	664	0.206	136	0.2	0.3	7.055	A
A-BCD	4	1	0.00	734	0.005	4	0.0	0.0	4.966	A
A-B	81	20	0.00			81				
A-C	30	7	0.00			30				
D-ABC	13	3	0.00	620	0.022	13	0.0	0.0	5.933	A
C-ABD	36	9	0.00	697	0.051	36	0.0	0.1	5.460	A
C-D	4	1	0.00			4				
C-A	51	13	0.00			51				

#### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	136	34	0.00	664	0.206	136	0.3	0.3	7.060	A
A-BCD	4	1	0.00	734	0.005	4	0.0	0.0	4.970	A
A-B	81	20	0.00			81				
A-C	30	7	0.00			30				
D-ABC	13	3	0.00	620	0.022	13	0.0	0.0	5.933	A
C-ABD	36	9	0.00	697	0.051	36	0.1	0.1	5.463	A
C-D	4	1	0.00			4				
C-A	51	13	0.00			51				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	111	28	0.00	670	0.166	112	0.3	0.2	6.671	A
A-BCD	3	0.80	0.00	726	0.004	3	0.0	0.0	5.021	A
A-B	67	17	0.00			67				
A-C	24	6	0.00			24				
D-ABC	11	3	0.00	629	0.017	11	0.0	0.0	5.828	A
C-ABD	29	7	0.00	696	0.041	29	0.1	0.0	5.417	A
C-D	4	0.88	0.00			4				
C-A	42	11	0.00			42				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	93	23	0.00	675	0.138	93	0.2	0.2	6.405	A
A-BCD	3	0.65	0.00	720	0.004	3	0.0	0.0	5.050	A
A-B	56	14	0.00			56				
A-C	20	5	0.00			20				
D-ABC	9	2	0.00	635	0.014	9	0.0	0.0	5.753	A
C-ABD	24	6	0.00	695	0.034	24	0.0	0.0	5.384	A
C-D	3	0.75	0.00			3				
C-A	35	9	0.00			35				