

|                                                                                                                                                                                                             |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>PICADY</b>                                                                                                                                                                                               |                                                                                   |
| GUI Version: 5.1 AE<br>Analysis Program Release: 5.0 (MAY 2010)                                                                                                                                             |                                                                                   |
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| <small>The user of this computer program for the solution of an engineering problem is in no correctness of the solution</small>                                                                            |                                                                                   |

## Run Analysis

| Parameter    | Values                                                                                    |
|--------------|-------------------------------------------------------------------------------------------|
| File Run     | \\O..\\B2132 Bilsham Road - Graham Road\\B2132 Bilsham Road - Graham Road GLEESON 250.vpi |
| Date Run     | 07 December 2017                                                                          |
| Time Run     | 14:56:43                                                                                  |
| Driving Side | Drive On The Left                                                                         |

## Arm Names and Flow Scaling Factors

| Arm   | Arm Name           | Flow Scaling Factor (%) |
|-------|--------------------|-------------------------|
| Arm A | B2132 Bilsham Road | 100                     |
| Arm B | Graham Road        | 100                     |
| Arm C | B2132 Bilsham Road | 100                     |

## Stream Labelling Convention

Stream A-B contains traffic going from A to B etc.

## Run Information

| Parameter   | Values                           |
|-------------|----------------------------------|
| Run Title   | B2132 Bilsham Road - Graham Road |
| Location    | Yapton                           |
| Date        | 29 June 2016                     |
| Enumerator  | tmoloney [W3559-ODYSSEY]         |
| Job Number  | 14-111                           |
| Status      | -                                |
| Client      | Gleesons                         |
| Description | -                                |

## Errors and Warnings

| Parameter | Values                |
|-----------|-----------------------|
| Warning   | No Errors Or Warnings |

## Geometric Data

### Geometric Parameters

| Parameter                                   | Minor Arm B |
|---------------------------------------------|-------------|
| Major Road Carriageway Width (m)            | 6.50        |
| Major Road Kerbed Central Reserve Width (m) | 0.00        |

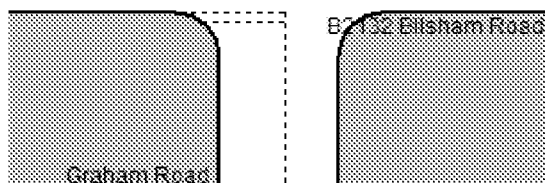
|                                         |                     |
|-----------------------------------------|---------------------|
| Major Road Right Turning Lane Width (m) | 2.20                |
| Minor Road First Lane Width (m)         | 3.00                |
| Minor Road Visibility To Right (m)      | 150                 |
| Minor Road Visibility To Left (m)       | 15                  |
| Major Road Right Turn Visibility (m)    | 200                 |
| Major Road Right Turn Blocks Traffic    | Yes (if over 1 veh) |

### Slope and Intercept Values

| Stream | Intercept for Stream | Slope for A-B | Slope for A-C | Slope for C-A | Slope for C-B |
|--------|----------------------|---------------|---------------|---------------|---------------|
| B-A    | 555.614              | 0.099         | 0.250         | 0.157         | 0.357         |
| B-C    | 718.366              | 0.108         | 0.272         | -             | -             |
| C-B    | 689.785              | 0.261         | 0.261         | -             | -             |

Note: Streams may be combined in which case capacity will be adjusted  
These values do not allow for any site-specific corrections

### Junction Diagram



### Demand Data

#### Modelling Periods

| Parameter               | Period      | Duration (min) | Segment Length (min) |
|-------------------------|-------------|----------------|----------------------|
| First Modelling Period  | 07:30-09:00 | 90             | 15                   |
| Second Modelling Period | 16:30-18:00 | 90             | 15                   |

### ODTAB Turning Counts

**Demand Set:** 2022 AM Base + Dev

**Modelling Period:** 07:30-09:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | 0.0   | 3.0   | 183.0 |
| Arm B   | 2.0   | 0.0   | 7.0   |
| Arm C   | 674.0 | 3.0   | 0.0   |

**Demand Set:** 2022 PM Base + Dev

**Modelling Period:** 16:30-18:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
|---------|-------|-------|-------|

|       |       |     |       |
|-------|-------|-----|-------|
| Arm A | 0.0   | 4.0 | 470.0 |
| Arm B | 1.0   | 0.0 | 1.0   |
| Arm C | 301.0 | 0.0 | 0.0   |

**Demand Set:** 2031 AM Base + Dev  
**Modelling Period:** 07:30-09:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | 0.0   | 4.0   | 194.0 |
| Arm B   | 2.0   | 0.0   | 7.0   |
| Arm C   | 717.0 | 4.0   | 0.0   |

**Demand Set:** 2031 PM Base + Dev  
**Modelling Period:** 16:30-18:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | 0.0   | 5.0   | 504.0 |
| Arm B   | 1.0   | 0.0   | 1.0   |
| Arm C   | 321.0 | 0.0   | 0.0   |

### ODTAB Synthesised Flows

**Demand Set:** 2022 AM Base + Dev  
**Modelling Period:** 07:30-09:00

| Arm   | Rising Time | Rising Flow (veh/min) | Peak Time | Peak Flow (veh/min) | Falling Time | Falling Flow (veh/min) |
|-------|-------------|-----------------------|-----------|---------------------|--------------|------------------------|
| Arm A | 07:45       | 2.325                 | 08:15     | 3.488               | 08:45        | 2.325                  |
| Arm B | 07:45       | 0.112                 | 08:15     | 0.169               | 08:45        | 0.112                  |
| Arm C | 07:45       | 8.462                 | 08:15     | 12.694              | 08:45        | 8.462                  |

### Heavy Vehicles Percentages

**Demand Set:** 2022 AM Base + Dev  
**Modelling Period:** 07:30-09:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | -     | 67.0  | 20.0  |
| Arm B   | 17.0  | -     | 50.0  |
| Arm C   | 9.0   | 33.0  | -     |

**Demand Set:** 2022 PM Base + Dev  
**Modelling Period:** 16:30-18:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | -     | 0.0   | 3.0   |
| Arm B   | 0.0   | -     | 0.0   |
| Arm C   | 3.0   | 0.0   | -     |

**Demand Set:** 2031 AM Base + Dev  
**Modelling Period:** 07:30-09:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | -     | 0.0   | 0.0   |
| Arm B   | 0.0   | -     | 0.0   |
| Arm C   | 0.0   | 0.0   | -     |

**Demand Set:** 2031 PM Base + Dev  
**Modelling Period:** 16:30-18:00

| From/To | Arm A | Arm B | Arm C |
|---------|-------|-------|-------|
| Arm A   | -     | 0.0   | 0.0   |
| Arm B   | 0.0   | -     | 0.0   |
| Arm C   | 0.0   | 0.0   | -     |

### Queues & Delays

**Demand Set:** 2022 AM Base + Dev  
**Modelling Period:** 07:30-09:00

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 07:30-<br>07:45 | B-AC   | 0.11                | 7.11                  | 0.016 | -                         | 0.00                    | 0.02                  | -                                           | 0.2                            | 0.14                                          |
|                 | C-AB   | 0.04                | 8.09                  | 0.005 | -                         | 0.00                    | 0.00                  | -                                           | 0.1                            | 0.12                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.04                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 2.30                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 07:45-<br>08:00 | B-AC   | 0.13                | 6.93                  | 0.019 | -                         | 0.02                    | 0.02                  | -                                           | 0.3                            | 0.15                                          |
|                 | C-AB   | 0.04                | 7.98                  | 0.006 | -                         | 0.00                    | 0.01                  | -                                           | 0.1                            | 0.13                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.04                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 2.74                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 08:00-<br>08:15 | B-AC   | 0.17                | 6.67                  | 0.025 | -                         | 0.02                    | 0.03                  | -                                           | 0.4                            | 0.15                                          |
|                 | C-AB   | 0.06                | 7.83                  | 0.007 | -                         | 0.01                    | 0.01                  | -                                           | 0.1                            | 0.13                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.06                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 3.36                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 08:15-<br>08:30 | B-AC   | 0.17                | 6.67                  | 0.025 | -                         | 0.03                    | 0.03                  | -                                           | 0.4                            | 0.15                                          |
|                 | C-AB   | 0.06                | 7.83                  | 0.007 | -                         | 0.01                    | 0.01                  | -                                           | 0.1                            | 0.13                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.06                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 3.36                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 08:30-<br>08:45 | B-AC   | 0.13                | 6.93                  | 0.019 | -                         | 0.03                    | 0.02                  | -                                           | 0.3                            | 0.15                                          |
|                 | C-AB   | 0.04                | 7.98                  | 0.006 | -                         | 0.01                    | 0.01                  | -                                           | 0.1                            | 0.13                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.04                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 2.74                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 08:45-<br>09:00 | B-AC   | 0.11                | 7.11                  | 0.016 | -                         | 0.02                    | 0.02                  | -                                           | 0.2                            | 0.14                                          |
|                 | C-AB   | 0.04                | 8.09                  | 0.005 | -                         | 0.01                    | 0.00                  | -                                           | 0.1                            | 0.12                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.04                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 2.30                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

**Demand Set:** 2022 PM Base + Dev  
**Modelling Period:** 16:30-18:00

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 16:30-<br>16:45 | B-AC   | 0.03                | 8.43                  | 0.003 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.12                                          |
|                 | C-AB   | 0.00                | 9.00                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.05                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 5.90                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 16:45-<br>17:00 | B-AC   | 0.03                | 8.03                  | 0.004 | -                         | 0.00                    | 0.00                  | -                                           | 0.1                            | 0.13                                          |
|                 | C-AB   | 0.00                | 8.71                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.06                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 7.04                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 17:00-<br>17:15 | B-AC   | 0.04                | 7.47                  | 0.005 | -                         | 0.00                    | 0.00                  | -                                           | 0.1                            | 0.13                                          |
|                 | C-AB   | 0.00                | 8.32                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.07                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 8.62                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 17:15-<br>17:30 | B-AC   | 0.04                | 7.47                  | 0.005 | -                         | 0.00                    | 0.00                  | -                                           | 0.1                            | 0.13                                          |
|                 | C-AB   | 0.00                | 8.32                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.07                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 8.62                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 17:30-<br>17:45 | B-AC   | 0.03                | 8.03                  | 0.004 | -                         | 0.00                    | 0.00                  | -                                           | 0.1                            | 0.13                                          |
|                 | C-AB   | 0.00                | 8.71                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.06                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 7.04                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 17:45-<br>18:00 | B-AC   | 0.03                | 8.43                  | 0.003 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.12                                          |
|                 | C-AB   | 0.00                | 9.00                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.05                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

|  |     |      |   |   |   |   |   |   |   |   |
|--|-----|------|---|---|---|---|---|---|---|---|
|  | A-C | 5.90 | - | - | - | - | - | - | - | - |
|--|-----|------|---|---|---|---|---|---|---|---|

**Demand Set:** 2031 AM Base + Dev

**Modelling Period:** 07:30-09:00

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 07:30-<br>07:45 | B-AC   | 0.11                | 10.04                 | 0.011 | -                         | 0.00                    | 0.01                  | -                                           | 0.2                            | 0.10                                          |
|                 | C-AB   | 0.05                | 10.85                 | 0.005 | -                         | 0.00                    | 0.00                  | -                                           | 0.1                            | 0.09                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.05                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 2.43                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 07:45-<br>08:00 | B-AC   | 0.13                | 9.78                  | 0.014 | -                         | 0.01                    | 0.01                  | -                                           | 0.2                            | 0.10                                          |
|                 | C-AB   | 0.06                | 10.72                 | 0.006 | -                         | 0.00                    | 0.01                  | -                                           | 0.1                            | 0.09                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.06                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 2.91                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 08:00-<br>08:15 | B-AC   | 0.17                | 9.42                  | 0.018 | -                         | 0.01                    | 0.02                  | -                                           | 0.3                            | 0.11                                          |
|                 | C-AB   | 0.07                | 10.55                 | 0.007 | -                         | 0.01                    | 0.01                  | -                                           | 0.1                            | 0.10                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.07                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 3.56                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 08:15-<br>08:30 | B-AC   | 0.17                | 9.42                  | 0.018 | -                         | 0.02                    | 0.02                  | -                                           | 0.3                            | 0.11                                          |
|                 | C-AB   | 0.07                | 10.55                 | 0.007 | -                         | 0.01                    | 0.01                  | -                                           | 0.1                            | 0.10                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.07                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 3.56                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 08:30-<br>08:45 | B-AC   | 0.13                | 9.78                  | 0.014 | -                         | 0.02                    | 0.01                  | -                                           | 0.2                            | 0.10                                          |
|                 | C-AB   | 0.06                | 10.72                 | 0.006 | -                         | 0.01                    | 0.01                  | -                                           | 0.1                            | 0.09                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.06                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 2.91                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
| 08:45-<br>09:00 | B-AC   | 0.11                | 10.04                 | 0.011 | -                         | 0.01                    | 0.01                  | -                                           | 0.2                            | 0.10                                          |
|                 | C-AB   | 0.05                | 10.85                 | 0.005 | -                         | 0.01                    | 0.00                  | -                                           | 0.1                            | 0.09                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

|  |     |      |   |   |   |   |   |   |   |   |
|--|-----|------|---|---|---|---|---|---|---|---|
|  | A-B | 0.05 | - | - | - | - | - | - | - | - |
|  | A-C | 2.43 | - | - | - | - | - | - | - | - |

**Demand Set:** 2031 PM Base + Dev

**Modelling Period:** 16:30-18:00

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 16:30-<br>16:45 | B-AC   | 0.03                | 8.34                  | 0.003 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.12                                          |
|                 | C-AB   | 0.00                | 8.93                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.06                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 6.32                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 16:45-<br>17:00 | B-AC   | 0.03                | 7.93                  | 0.004 | -                         | 0.00                    | 0.00                  | -                                           | 0.1                            | 0.13                                          |
|                 | C-AB   | 0.00                | 8.64                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.07                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 7.55                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 17:00-<br>17:15 | B-AC   | 0.04                | 7.35                  | 0.005 | -                         | 0.00                    | 0.00                  | -                                           | 0.1                            | 0.14                                          |
|                 | C-AB   | 0.00                | 8.23                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.09                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 9.25                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 17:15-<br>17:30 | B-AC   | 0.04                | 7.35                  | 0.005 | -                         | 0.00                    | 0.01                  | -                                           | 0.1                            | 0.14                                          |
|                 | C-AB   | 0.00                | 8.23                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.09                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 9.25                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

| Segment         | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|-----------------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
| 17:30-<br>17:45 | B-AC   | 0.03                | 7.93                  | 0.004 | -                         | 0.01                    | 0.00                  | -                                           | 0.1                            | 0.13                                          |
|                 | C-AB   | 0.00                | 8.64                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |
|                 | C-A    | -                   | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-B    | 0.07                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |
|                 | A-C    | 7.55                | -                     | -     | -                         | -                       | -                     | -                                           | -                              | -                                             |

| Segment | Stream | Demand<br>(veh/min) | Capacity<br>(veh/min) | RFC   | Ped.<br>Flow<br>(ped/min) | Start<br>Queue<br>(veh) | End<br>Queue<br>(veh) | Geometric<br>Delay<br>(veh.min/<br>segment) | Delay<br>(veh.min/<br>segment) | Mean<br>Arriving<br>Vehicle<br>Delay<br>(min) |
|---------|--------|---------------------|-----------------------|-------|---------------------------|-------------------------|-----------------------|---------------------------------------------|--------------------------------|-----------------------------------------------|
|         | B-AC   | 0.03                | 8.34                  | 0.003 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.12                                          |
|         | C-AB   | 0.00                | 8.93                  | 0.000 | -                         | 0.00                    | 0.00                  | -                                           | 0.0                            | 0.00                                          |

|                 |     |      |   |   |   |   |   |   |   |   |
|-----------------|-----|------|---|---|---|---|---|---|---|---|
| 17:45-<br>18:00 | C-A | -    | - | - | - | - | - | - | - | - |
|                 | A-B | 0.06 | - | - | - | - | - | - | - | - |
|                 | A-C | 6.32 | - | - | - | - | - | - | - | - |

Entry capacities marked with an '(X)' are dominated by a pedestrian crossing in that time segment.

In time segments marked with a '(B)', traffic leaving the junction may block back from a crossing so impairing normal operation of the junction.

Delays marked with '###' could not be calculated.

### **PICADY 5 Run Successful**