

## K&M TRAFFIC SURVEYS

DATE : THURSDAY 12TH JUNE 2025

LOCATION : ICKELFORD & HENLOW, HERTS

**J1 - BEDFORD ROAD / WESTMILL LANE / TURNPIKE LANE ROUNDABOUT, ICKLEFORD**

| WESTMILL LANE WEST<br>LEFT TURN TO<br>A600 BEDFORD RD NORTH |     |     |     |     |     |    | WESTMILL LANE WEST<br>STRAIGHT AHEAD TO<br>TURNPIKE LANE EAST |     |     |     |     |     |  | WESTMILL LANE WEST<br>RIGHT TURN TO<br>A600 BEDFORD RD SOUTH |     |     |     |     |     |  |
|-------------------------------------------------------------|-----|-----|-----|-----|-----|----|---------------------------------------------------------------|-----|-----|-----|-----|-----|--|--------------------------------------------------------------|-----|-----|-----|-----|-----|--|
| CAR                                                         | HGV | BUS | MCY | PCY | TOT |    | CAR                                                           | HGV | BUS | MCY | PCY | TOT |  | CAR                                                          | HGV | BUS | MCY | PCY | TOT |  |
| 0700-0715                                                   | 2   |     |     |     | 2   |    | 0                                                             |     |     |     |     | 0   |  | 1                                                            |     |     |     |     | 1   |  |
| 0715-0730                                                   | 6   |     |     |     | 6   |    | 2                                                             |     |     |     |     | 2   |  | 2                                                            |     |     |     |     | 2   |  |
| 0730-0745                                                   | 3   |     |     |     | 3   |    | 4                                                             |     |     |     |     | 4   |  | 3                                                            |     |     |     |     | 3   |  |
| 0745-0800                                                   | 2   |     |     |     | 2   |    | 3                                                             |     |     |     |     | 3   |  | 4                                                            |     |     |     |     | 4   |  |
| 0800-0815                                                   | 0   |     |     |     | 0   |    | 4                                                             |     |     |     |     | 4   |  | 1                                                            |     | 1   |     |     | 2   |  |
| 0815-0830                                                   | 0   |     |     |     | 0   |    | 1                                                             |     |     |     |     | 1   |  | 2                                                            |     |     |     |     | 2   |  |
| 0830-0845                                                   | 1   |     |     |     | 1   |    | 4                                                             |     |     |     |     | 4   |  | 1                                                            |     |     |     |     | 1   |  |
| 0845-0900                                                   | 2   |     |     |     | 2   |    | 5                                                             |     |     |     |     | 5   |  | 1                                                            |     | 1   |     |     | 2   |  |
| 0900-0915                                                   | 0   |     |     |     | 0   |    | 2                                                             |     |     |     |     | 2   |  | 2                                                            | 1   |     |     |     | 3   |  |
| 0915-0930                                                   | 0   |     |     |     | 0   |    | 3                                                             |     |     |     |     | 3   |  | 1                                                            |     |     |     |     | 1   |  |
| 0930-0945                                                   | 0   |     |     |     | 0   |    | 0                                                             |     |     |     |     | 0   |  | 3                                                            |     |     |     |     | 3   |  |
| 0945-1000                                                   | 0   |     |     |     | 0   |    | 1                                                             |     |     |     |     | 1   |  | 0                                                            |     |     |     |     | 0   |  |
| 0700-1000                                                   | 16  | 0   | 0   | 0   | 0   | 16 | 29                                                            | 0   | 0   | 0   | 0   | 29  |  | 21                                                           | 1   | 0   | 0   | 2   | 24  |  |
|                                                             |     |     |     |     |     |    |                                                               |     |     |     |     |     |  |                                                              |     |     |     |     |     |  |
| 0700-0800                                                   | 13  | 0   | 0   | 0   | 0   | 13 | 9                                                             | 0   | 0   | 0   | 0   | 9   |  | 10                                                           | 0   | 0   | 0   | 0   | 10  |  |
| 0715-0815                                                   | 11  | 0   | 0   | 0   | 0   | 11 | 13                                                            | 0   | 0   | 0   | 0   | 13  |  | 10                                                           | 0   | 0   | 0   | 1   | 11  |  |
| 0730-0830                                                   | 5   | 0   | 0   | 0   | 0   | 5  | 12                                                            | 0   | 0   | 0   | 0   | 12  |  | 10                                                           | 0   | 0   | 0   | 1   | 11  |  |
| 0745-0845                                                   | 3   | 0   | 0   | 0   | 0   | 3  | 12                                                            | 0   | 0   | 0   | 0   | 12  |  | 8                                                            | 0   | 0   | 0   | 1   | 9   |  |
| 0800-0900                                                   | 3   | 0   | 0   | 0   | 0   | 3  | 14                                                            | 0   | 0   | 0   | 0   | 14  |  | 5                                                            | 0   | 0   | 0   | 2   | 7   |  |
| 0815-0915                                                   | 3   | 0   | 0   | 0   | 0   | 3  | 12                                                            | 0   | 0   | 0   | 0   | 12  |  | 6                                                            | 1   | 0   | 0   | 1   | 8   |  |
| 0830-0930                                                   | 3   | 0   | 0   | 0   | 0   | 3  | 14                                                            | 0   | 0   | 0   | 0   | 14  |  | 5                                                            | 1   | 0   | 0   | 1   | 7   |  |
| 0845-0945                                                   | 2   | 0   | 0   | 0   | 0   | 2  | 10                                                            | 0   | 0   | 0   | 0   | 10  |  | 7                                                            | 1   | 0   | 0   | 1   | 9   |  |
| 0900-1000                                                   | 0   | 0   | 0   | 0   | 0   | 0  | 6                                                             | 0   | 0   | 0   | 0   | 6   |  | 6                                                            | 1   | 0   | 0   | 0   | 7   |  |

3

14

6

## K&M TRAFFIC SURVEYS

DATE : THURSDAY 12TH JUNE 2025

LOCATION : ICKELFORD & HENLOW, HERTS

**J1 - BEDFORD ROAD / WESTMILL LANE / TURNPIKE LANE ROUNDABOUT, ICKLEFORD**

| EAST |     | A600 BEDFORD RD SOUTH<br>LEFT TURN TO<br>WESTMILL LANE WEST |     |     |     |     |     |     | A600 BEDFORD RD SOUTH<br>STRAIGHT AHEAD TO<br>A600 BEDFORD RD NORTH |      |     |     |     |     |     | A600 BEDFORD RD SOUTH<br>RIGHT TURN TO<br>TURNPIKE LANE EAST |     |     |     |     |     |     | A600 BEDFORD RD SOUTH<br>U TURNS |     |           |           |           |     |     | WESTMILL LANE WEST<br>LEFT TURN TO<br>A600 BEDFORD RD NORTH |     |     |           |           |           |     | WESTMILL LANE WEST<br>STRAIGHT AHEAD TO<br>TURNPIKE LANE EAST |     |     |     |           |     |           | WESTMILL LANE WEST<br>RIGHT TURN TO<br>A600 BEDFORD RD SOUTH |   |   |   |   |   |   |
|------|-----|-------------------------------------------------------------|-----|-----|-----|-----|-----|-----|---------------------------------------------------------------------|------|-----|-----|-----|-----|-----|--------------------------------------------------------------|-----|-----|-----|-----|-----|-----|----------------------------------|-----|-----------|-----------|-----------|-----|-----|-------------------------------------------------------------|-----|-----|-----------|-----------|-----------|-----|---------------------------------------------------------------|-----|-----|-----|-----------|-----|-----------|--------------------------------------------------------------|---|---|---|---|---|---|
| PCY  | TOT | CAR                                                         | HGV | BUS | MCY | PCY | TOT | CAR | HGV                                                                 | BUS  | MCY | PCY | TOT | CAR | HGV | BUS                                                          | MCY | PCY | TOT | CAR | HGV | BUS | MCY                              | PCY | TOT       | CAR       | HGV       | BUS | MCY | PCY                                                         | TOT | CAR | HGV       | BUS       | MCY       | PCY | TOT                                                           | CAR | HGV | BUS | MCY       | PCY | TOT       |                                                              |   |   |   |   |   |   |
| 0    | 0   | 1600-1615                                                   | 3   |     |     |     | 3   | 116 | 1                                                                   | 2    |     |     | 119 | 52  | 1   |                                                              | 1   |     | 54  | 0   |     |     |                                  |     | 0         | 1600-1615 | 2         |     |     |                                                             |     |     | 0         | 1600-1615 | 6         | 0   | 0                                                             | 0   | 0   | 0   | 6         | 4   | 0         | 0                                                            | 0 | 0 | 4 |   |   |   |
| 0    | 0   | 1615-1630                                                   | 0   |     |     |     | 0   | 107 | 2                                                                   |      | 1   | 1   | 111 | 36  |     | 1                                                            |     | 37  | 0   |     |     |     |                                  | 0   | 1615-1630 | 0         |           |     |     |                                                             |     | 0   | 1615-1630 | 0         |           |     |                                                               |     |     | 0   | 1615-1630 | 0   |           |                                                              |   |   | 0 |   |   |   |
| 0    | 0   | 1630-1645                                                   | 2   |     |     |     | 2   | 118 |                                                                     |      |     | 4   | 122 | 52  |     | 1                                                            |     | 53  | 0   |     |     |     |                                  | 0   | 1630-1645 | 1         |           |     |     |                                                             |     | 1   | 1630-1645 | 2         |           |     |                                                               |     |     | 2   | 1630-1645 | 2   |           |                                                              |   |   | 2 |   |   |   |
| 0    | 0   | 1645-1700                                                   | 6   |     |     |     | 6   | 88  | 2                                                                   | 1    |     | 1   | 92  | 28  |     | 1                                                            |     | 29  | 0   |     |     |     |                                  | 0   | 1645-1700 | 0         |           |     |     |                                                             |     | 0   | 1645-1700 | 0         |           |     |                                                               |     |     | 0   | 1645-1700 | 2   |           |                                                              |   |   | 2 |   |   |   |
| 0    | 0   | 1700-1715                                                   | 3   |     |     |     | 3   | 106 | 1                                                                   | 1    |     | 1   | 109 | 29  |     |                                                              |     | 29  | 0   |     |     |     |                                  | 0   | 1700-1715 | 0         |           |     |     |                                                             |     | 0   | 1700-1715 | 0         |           |     |                                                               |     |     | 0   | 1700-1715 | 3   | 1         |                                                              |   |   | 4 |   |   |   |
| 0    | 0   | 1715-1730                                                   | 1   |     |     |     | 1   | 110 | 1                                                                   |      |     |     | 111 | 36  |     | 1                                                            |     | 37  | 0   |     |     |     |                                  | 0   | 1715-1730 | 0         |           |     |     |                                                             |     | 0   | 1715-1730 | 0         |           |     |                                                               |     |     | 0   | 1715-1730 | 2   |           |                                                              |   |   | 2 |   |   |   |
| 0    | 0   | 1730-1745                                                   | 4   |     |     |     | 4   | 96  |                                                                     |      | 1   | 1   | 98  | 40  |     |                                                              |     | 40  | 0   |     |     |     |                                  | 0   | 1730-1745 | 0         |           |     |     |                                                             |     | 0   | 1730-1745 | 0         |           |     |                                                               |     |     | 0   | 1730-1745 | 2   |           |                                                              |   |   | 2 |   |   |   |
| 0    | 0   | 1745-1800                                                   | 2   |     |     |     | 2   | 87  | 1                                                                   |      |     |     | 88  | 25  |     |                                                              |     | 25  | 0   |     |     |     |                                  | 0   | 1745-1800 | 1         |           |     |     |                                                             |     | 1   | 1745-1800 | 1         |           |     |                                                               |     |     | 1   | 1745-1800 | 2   |           |                                                              |   |   | 2 |   |   |   |
| 0    | 0   | 1800-1815                                                   | 4   |     |     |     | 4   | 98  |                                                                     | 2    | 2   |     | 102 | 42  |     |                                                              |     | 42  | 0   |     |     |     |                                  | 0   | 1800-1815 | 0         |           |     |     |                                                             |     | 0   | 1800-1815 | 0         |           |     |                                                               |     |     | 0   | 1800-1815 | 3   |           |                                                              |   |   | 3 |   |   |   |
| 0    | 0   | 1815-1830                                                   | 2   |     |     |     | 2   | 113 | 1                                                                   |      |     |     | 114 | 26  | 1   |                                                              |     | 27  | 0   |     |     |     |                                  | 0   | 1815-1830 | 1         |           |     |     |                                                             |     | 1   | 1815-1830 | 1         |           |     |                                                               |     |     | 1   | 1815-1830 | 3   |           |                                                              |   |   | 3 |   |   |   |
| 0    | 0   | 1830-1845                                                   | 4   |     |     |     | 4   | 84  | 2                                                                   | 1    |     |     | 87  | 40  |     |                                                              |     | 40  | 0   |     |     |     |                                  | 0   | 1830-1845 | 1         |           |     |     |                                                             |     | 1   | 1830-1845 | 1         |           |     |                                                               |     |     | 1   | 1830-1845 | 2   |           | 1                                                            |   |   | 3 |   |   |   |
| 0    | 0   | 1845-1900                                                   | 3   |     |     |     | 3   | 83  |                                                                     | 2    | 2   |     | 87  | 29  |     |                                                              | 1   | 30  | 0   |     |     |     |                                  | 0   | 1845-1900 | 1         |           |     |     |                                                             |     | 1   | 1845-1900 | 1         |           |     |                                                               |     |     | 1   | 1845-1900 | 0   |           |                                                              |   |   | 0 |   |   |   |
| 0    | 0   | 1600-1900                                                   | 34  | 0   | 0   | 0   | 0   | 1   | 35                                                                  | 1206 | 11  | 9   | 11  | 3   | 435 | 2                                                            | 1   | 4   | 1   | 443 | 0   | 0   | 0                                | 0   | 0         | 0         | 1600-1900 | 6   | 0   | 0                                                           | 0   | 0   | 0         | 6         | 1600-1900 | 21  | 0                                                             | 0   | 1   | 1   | 1         | 23  | 1600-1900 | 7                                                            | 0 | 0 | 0 | 0 | 1 | 8 |
| 0    | 0   | 1600-1700                                                   | 11  | 0   | 0   | 0   | 0   | 11  | 429                                                                 | 5    | 3   | 5   | 2   | 444 | 168 | 1                                                            | 1   | 3   | 0   | 173 | 0   | 0   | 0                                | 0   | 0         | 0         | 1600-1700 | 2   | 0   | 0                                                           | 0   | 0   | 0         | 2         | 1600-1700 | 4   | 0                                                             | 0   | 0   | 0   | 0         | 4   | 1600-1700 | 6                                                            | 0 | 0 | 0 | 0 | 0 | 6 |
| 0    | 0   | 1615-1715                                                   | 11  | 0   | 0   | 0   | 0   | 11  | 419                                                                 | 5    | 2   | 5   | 3   | 434 | 145 | 0                                                            | 1   | 2   | 0   | 148 | 0   | 0   | 0                                | 0   | 0         | 0         | 1615-1715 | 1   | 0   | 0                                                           | 0   | 0   | 0         | 1         | 1615-1715 | 7   | 0                                                             | 0   | 0   | 0   | 0         | 1   | 1615-1715 | 4                                                            | 0 | 0 | 0 | 0 | 0 | 4 |
| 0    | 0   | 1630-1730                                                   | 12  | 0   | 0   | 0   | 0   | 12  | 422                                                                 | 4    | 2   | 4   | 2   | 434 | 145 | 0                                                            | 0   | 3   | 0   | 148 | 0   | 0   | 0                                | 0   | 0         | 0         | 1630-1730 | 1   | 0   | 0                                                           | 0   | 0   | 0         | 1         | 1630-1730 | 9   | 0                                                             | 0   | 0   | 0   | 0         | 1   | 1630-1730 | 4                                                            | 0 | 0 | 0 | 0 | 0 | 4 |
| 0    | 0   | 1645-1745                                                   | 14  | 0   | 0   | 0   | 0   | 14  | 400                                                                 | 4    | 3   | 1   | 2   | 410 | 133 | 0                                                            | 0   | 2   | 0   | 135 | 0   | 0   | 0                                | 0   | 0         | 0         | 1645-1745 | 0   | 0   | 0                                                           | 0   | 0   | 0         | 0         | 1645-1745 | 9   | 0                                                             | 0   | 0   | 0   | 0         | 1   | 1645-1745 | 3                                                            | 0 | 0 | 0 | 0 | 0 | 3 |
| 0    | 0   | 1700-1800                                                   | 10  | 0   | 0   | 0   | 0   | 10  | 399                                                                 | 3    | 2   | 1   | 1   | 406 | 130 | 0                                                            | 0   | 1   | 0   | 131 | 0   | 0   | 0                                | 0   | 0         | 0         | 1700-1800 | 1   | 0   | 0                                                           | 0   | 0   | 0         | 1         | 1700-1800 | 9   | 0                                                             | 0   | 0   | 0   | 0         | 1   | 1700-1800 | 9                                                            | 0 | 0 | 0 | 0 | 0 | 9 |
| 0    | 0   | 1715-1815                                                   | 11  | 0   | 0   | 0   | 0   | 11  | 391                                                                 | 2    | 3   | 3   | 0   | 399 | 143 | 0                                                            | 0   | 1   | 0   | 144 | 0   | 0   | 0                                | 0   | 0         | 0         | 1715-1815 | 1   | 0   | 0                                                           | 0   | 0   | 0         | 1         | 1715-1815 | 9   | 0                                                             | 0   | 0   | 0   | 0         | 9   | 1715-1815 | 0                                                            | 0 | 0 | 0 | 0 | 0 | 1 |
| 0    | 0   | 1730-1830                                                   | 12  | 0   | 0   | 0   | 0   | 12  | 394                                                                 | 2    | 3   | 3   | 0   | 402 | 133 | 1                                                            | 0   | 0   | 0   | 134 | 0   | 0   | 0                                | 0   | 0         | 0         | 1730-1830 | 2   | 0   | 0                                                           | 0   | 0   | 0         | 2         | 1730-1830 | 10  | 0                                                             | 0   | 0   | 0   | 0         | 10  | 1730-1830 | 0                                                            | 0 | 0 | 0 | 0 | 0 | 1 |
| 0    | 0   | 1745-1845                                                   | 12  | 0   | 0   | 0   | 1   | 13  | 382                                                                 | 4    | 2   | 3   | 0   | 391 | 133 | 1                                                            | 0   | 0   | 0   | 134 | 0   | 0   | 0                                | 0   | 0         | 0         | 1745-1845 | 3   | 0   | 0                                                           | 0   | 0   | 0         | 3         | 1745-1845 | 10  | 0                                                             | 0   | 0   | 1   | 0         | 11  | 1745-1845 | 0                                                            | 0 | 0 | 0 | 0 | 0 | 1 |
| 0    | 0   | 1800-1900                                                   | 13  | 0   | 0   | 0   | 1   | 14  | 378                                                                 | 3    | 4   | 5   | 0   | 390 | 137 | 1                                                            | 0   | 0   | 1   | 139 | 0   | 0   | 0                                | 0   | 0         | 0         | 1800-1900 | 3   | 0   | 0                                                           | 0   | 0   | 0         | 3         | 1800-1900 | 8   | 0                                                             | 0   | 1   | 0   | 9         | 9   | 1800-1900 | 1                                                            | 0 | 0 | 0 | 0 | 1 | 2 |

## K&M TRAFFIC SURVEYS

DATE : THURSDAY 12TH JUNE 2025

LOCATION : ICKELFORD & HENLOW, HERTS

## J2 - BEDFORD ROAD / STATION ROAD / HITCHIN ROAD ROUNDABOUT

| HITCHIN F    |     |     |
|--------------|-----|-----|
| RIGHT        |     |     |
| A600 BEDFORD |     |     |
| CAR          | HGV | BUS |
| 4            | 1   |     |
| 5            | 1   |     |
| 9            |     |     |
| 9            | 3   |     |
| 16           | 1   |     |
| 11           |     |     |
| 14           |     |     |
| 11           |     |     |
| 10           |     |     |
| 13           |     | 1   |
| 7            |     |     |
| 4            | 2   |     |
| 113          | 8   | 1   |
| 27           | 5   | 0   |
| 39           | 5   | 0   |
| 45           | 4   | 0   |
| 50           | 4   | 0   |
| 52           | 1   | 0   |
| 46           | 0   | 0   |
| 48           | 0   | 1   |
| 38           | 0   | 1   |
| 34           | 2   | 1   |

## K&M TRAFFIC SURVEYS

DATE : THURSDAY 12TH JUNE 2025

LOCATION : ICKELFORD & HENLOW, HERTS

**J2 - BEDFORD ROAD / STATION ROAD / HITCHIN ROAD ROUNDABOUT**

| HITCHIN F    |     |     |
|--------------|-----|-----|
| RIGHT        |     |     |
| A600 BEDFORD |     |     |
| CAR          | HGV | BUS |
| 16           |     |     |
| 12           |     |     |
| 19           |     |     |
| 13           | 1   |     |
| 7            |     |     |
| 5            |     |     |
| 7            |     |     |
| 16           |     |     |
| 12           |     | 1   |
| 8            |     |     |
| 13           |     |     |
| 16           |     |     |
| 144          | 1   | 1   |
| 60           | 1   | 0   |
| 51           | 1   | 0   |
| 44           | 1   | 0   |
| 32           | 1   | 0   |
| 35           | 0   | 0   |
| 40           | 0   | 1   |
| 43           | 0   | 1   |
| 49           | 0   | 1   |
| 49           | 0   | 1   |

K&M TRAFFIC SURVEYS

DATE : THURSDAY 12TH JUNE 2025

LOCATION : ICKELFORD & HENLOW, HERTS

BOUT, HENLOW

| ROAD EAST<br>TURN TO<br>3D RD NORTH |     |     |
|-------------------------------------|-----|-----|
| MCY                                 | PCY | TOT |
|                                     | 5   |     |
|                                     | 6   |     |
|                                     | 9   |     |
|                                     | 12  |     |
|                                     | 17  |     |
|                                     | 11  |     |
|                                     | 14  |     |
| 1                                   | 12  |     |
|                                     | 10  |     |
|                                     | 14  |     |
|                                     | 4   |     |
|                                     | 9   |     |
| 0                                   | 1   | 123 |
|                                     |     |     |
| 0                                   | 0   | 32  |
| 0                                   | 0   | 44  |
| 0                                   | 0   | 49  |
| 0                                   | 0   | 54  |
| 0                                   | 1   | 54  |
| 0                                   | 1   | 47  |
| 0                                   | 1   | 50  |
| 0                                   | 1   | 40  |
| 0                                   | 0   | 37  |

| HITCHIN ROAD EAST<br>U TURNS |     |     |     |     |     |  |
|------------------------------|-----|-----|-----|-----|-----|--|
| CAR                          | HGV | BUS | MCY | PCY | TOT |  |
| 0                            |     |     |     |     | 0   |  |
| 0                            | 1   |     |     |     | 1   |  |
| 0                            |     |     |     |     | 0   |  |
| 1                            |     |     |     |     | 1   |  |
| 0                            |     |     |     |     | 0   |  |
| 2                            |     |     |     |     | 2   |  |
| 0                            |     |     |     |     | 0   |  |
| 0                            |     |     |     |     | 0   |  |
| 0                            |     |     |     |     | 0   |  |
| 1                            |     |     |     |     | 1   |  |
| 0                            |     |     |     |     | 0   |  |
| 0                            |     |     |     |     | 0   |  |
| 4                            | 0   | 1   | 0   | 0   | 5   |  |
|                              |     |     |     |     |     |  |
| 1                            | 0   | 1   | 0   | 0   | 2   |  |
| 1                            | 0   | 1   | 0   | 0   | 2   |  |
| 3                            | 0   | 0   | 0   | 0   | 3   |  |
| 3                            | 0   | 0   | 0   | 0   | 3   |  |
| 2                            | 0   | 0   | 0   | 0   | 2   |  |
| 2                            | 0   | 0   | 0   | 0   | 2   |  |
| 1                            | 0   | 0   | 0   | 0   | 1   |  |
| 1                            | 0   | 0   | 0   | 0   | 1   |  |
| 1                            | 0   | 0   | 0   | 0   | 1   |  |

J2 - BEDFORD ROAD / STATION ROAD / HITCHIN ROAD ROUNDABOUT, HENLOW

| A600 BEDFORD RD SOUTH<br>LEFT TURN TO<br>STATION ROAD WEST |     |     |     |     |     |     |
|------------------------------------------------------------|-----|-----|-----|-----|-----|-----|
| CAR                                                        | HGV | BUS | MCY | PCY | TOT |     |
| 12                                                         |     |     |     |     | 12  |     |
| 16                                                         | 2   | 1   |     |     | 19  |     |
| 9                                                          |     |     |     |     | 9   |     |
| 17                                                         |     |     |     |     | 17  |     |
| 18                                                         |     |     |     |     | 18  |     |
| 21                                                         |     |     |     |     | 21  |     |
| 24                                                         |     |     |     |     | 24  |     |
| 27                                                         | 1   |     |     |     | 28  |     |
| 20                                                         |     |     |     |     | 20  |     |
| 47                                                         | 1   |     |     |     | 48  |     |
| 23                                                         |     | 1   |     |     | 24  |     |
| 25                                                         |     |     |     |     | 25  |     |
| 0700-1000                                                  | 259 | 4   | 2   | 0   | 0   | 265 |
|                                                            |     |     |     |     |     |     |
| 54                                                         | 2   | 1   | 0   | 0   | 57  |     |
| 60                                                         | 2   | 1   | 0   | 0   | 63  |     |
| 65                                                         | 0   | 0   | 0   | 0   | 65  |     |
| 80                                                         | 0   | 0   | 0   | 0   | 80  |     |
| 90                                                         | 1   | 0   | 0   | 0   | 91  |     |
| 92                                                         | 1   | 0   | 0   | 0   | 93  |     |
| 118                                                        | 2   | 0   | 0   | 0   | 120 |     |
| 117                                                        | 2   | 1   | 0   | 0   | 120 |     |
| 115                                                        | 1   | 1   | 0   | 0   | 117 |     |

| A600 BEDFORD RD SOUTH<br>STRAIGHT AHEAD TO<br>A600 BEDFORD RD NORTH |     |     |     |     |     |  |
|---------------------------------------------------------------------|-----|-----|-----|-----|-----|--|
| CAR                                                                 | HGV | BUS | MCY | PCY | TOT |  |
| 42                                                                  | 1   |     |     |     | 43  |  |
| 48                                                                  | 4   |     | 1   |     | 53  |  |
| 62                                                                  |     | 1   |     |     | 63  |  |
| 72                                                                  | 2   |     |     |     | 74  |  |
| 69                                                                  | 6   |     |     |     | 75  |  |
| 59                                                                  |     | 1   |     |     | 60  |  |
| 62                                                                  | 2   |     | 1   | 1   | 66  |  |
| 39                                                                  | 5   |     |     |     | 44  |  |
| 56                                                                  | 4   | 1   |     |     | 61  |  |
| 87                                                                  | 5   | 1   |     |     | 93  |  |
| 64                                                                  | 3   |     |     |     | 67  |  |
| 41                                                                  | 2   |     | 1   |     | 44  |  |
| 0701                                                                | 34  | 4   | 2   | 2   | 743 |  |
|                                                                     |     |     |     |     |     |  |
| 224                                                                 | 7   | 1   | 1   | 0   | 233 |  |
| 251                                                                 | 12  | 1   | 1   | 0   | 265 |  |
| 262                                                                 | 8   | 2   | 0   | 0   | 272 |  |
| 262                                                                 | 10  | 1   | 1   | 1   | 275 |  |
| 229                                                                 | 13  | 1   | 1   | 1   | 245 |  |
| 216                                                                 | 11  | 2   | 1   | 1   | 231 |  |
| 244                                                                 | 16  | 2   | 1   | 1   | 264 |  |
| 246                                                                 | 17  | 2   | 0   | 0   | 265 |  |
| 248                                                                 | 14  | 2   | 0   | 1   | 265 |  |

| A600 BEDFORD RD SOUTH<br>RIGHT TURN TO<br>HITCHIN ROAD EAST |     |     |     |     |     |     |
|-------------------------------------------------------------|-----|-----|-----|-----|-----|-----|
| CAR                                                         | HGV | BUS | MCY | PCY | TOT |     |
| 16                                                          |     | 1   |     |     | 17  |     |
| 30                                                          |     |     |     |     | 30  |     |
| 35                                                          |     | 1   | 1   |     | 37  |     |
| 42                                                          |     | 1   |     |     | 43  |     |
| 51                                                          |     | 1   |     |     | 52  |     |
| 60                                                          | 4   | 2   |     |     | 66  |     |
| 52                                                          |     | 1   |     |     | 53  |     |
| 34                                                          | 2   |     |     |     | 36  |     |
| 41                                                          | 3   |     |     |     | 44  |     |
| 50                                                          | 3   | 2   |     |     | 55  |     |
| 36                                                          |     |     | 1   |     | 37  |     |
| 22                                                          |     |     |     |     | 22  |     |
| 0700-1000                                                   | 469 | 12  | 9   | 1   | 1   | 492 |
|                                                             |     |     |     |     |     |     |
| 123                                                         | 0   | 3   | 1   | 0   | 127 |     |
| 158                                                         | 0   | 3   | 1   | 0   | 162 |     |
| 188                                                         | 4   | 5   | 1   | 0   | 198 |     |
| 205                                                         | 4   | 5   | 0   | 0   | 214 |     |
| 197                                                         | 6   | 4   | 0   | 0   | 207 |     |
| 187                                                         | 9   | 3   | 0   | 0   | 199 |     |
| 177                                                         | 8   | 3   | 0   | 0   | 188 |     |
| 161                                                         | 8   | 2   | 0   | 1   | 172 |     |
| 149                                                         | 6   | 2   | 0   | 1   | 158 |     |

| A600 BEDFORD RD SOUTH<br>U TURNS |     |     |     |     |     |  |
|----------------------------------|-----|-----|-----|-----|-----|--|
| CAR                              | HGV | BUS | MCY | PCY | TOT |  |
| 1                                |     |     |     |     | 1   |  |
| 0                                |     |     |     |     | 0   |  |
| 0                                |     |     |     |     | 0   |  |
| 0                                |     |     |     |     | 0   |  |
| 0                                |     |     |     |     | 0   |  |
| 1                                |     |     |     |     | 1   |  |
| 0                                |     |     |     |     | 0   |  |
| 0                                |     |     |     |     | 0   |  |
| 0                                |     |     |     |     | 0   |  |
| 0                                |     |     |     |     | 0   |  |
| 0                                |     |     |     |     | 0   |  |
| 2                                | 0   | 0   | 0   | 0   | 2   |  |
|                                  |     |     |     |     |     |  |
| 1                                | 0   | 0   | 0   | 0   | 1   |  |
| 0                                | 0   | 0   | 0   | 0   | 0   |  |
| 1                                | 0   | 0   | 0   | 0   | 1   |  |
| 0                                | 0   | 0   | 0   | 0   | 0   |  |
| 0                                | 0   | 0   | 0   | 0   | 0   |  |
| 0                                | 0   | 0   | 0   | 0   | 0   |  |

K&M TRAFFIC SURVEYS

DATE : THURSDAY 12TH JUNE 2025

LOCATION : ICKELFORD & HENLOW, HERTS

J2 - BEDFORD ROAD / STATION ROAD / HITCHIN ROAD ROUNDABOUT, HENLOW

| STATION ROAD WEST<br>LEFT TURN TO<br>A600 BEDFORD RD NORTH |     |     |     |     |     |     |
|------------------------------------------------------------|-----|-----|-----|-----|-----|-----|
| CAR                                                        | HGV | BUS | MCY | PCY | TOT |     |
| 7                                                          |     |     |     |     | 7   |     |
| 11                                                         |     |     |     |     | 11  |     |
| 13                                                         |     |     |     |     | 13  |     |
| 13                                                         |     |     |     |     | 13  |     |
| 9                                                          |     |     |     |     | 9   |     |
| 6                                                          |     | 1   |     |     | 7   |     |
| 13                                                         |     |     |     |     | 13  |     |
| 11                                                         |     | 1   | 1   |     | 13  |     |
| 20                                                         |     |     |     |     | 20  |     |
| 8                                                          |     |     |     |     | 8   |     |
| 12                                                         | 1   | 1   |     |     | 14  |     |
| 14                                                         | 1   |     |     |     | 15  |     |
| 0700-1000                                                  | 137 | 2   | 3   | 1   | 0   | 143 |
|                                                            |     |     |     |     |     |     |
| 44                                                         | 0   | 0   | 0   | 0   | 44  |     |
| 46                                                         | 0   | 0   | 0   | 0   | 46  |     |
| 41                                                         | 0   | 1   | 0   | 0   | 42  |     |
| 41                                                         | 0   | 1   | 0   | 0   | 42  |     |
| 39                                                         | 0   | 2   | 1   | 0   | 42  |     |
| 50                                                         | 0   | 2   | 1   | 0   | 53  |     |
| 52                                                         | 0   | 1   | 1   | 0   | 54  |     |
| 51                                                         | 1   | 2   | 1   | 0   | 55  |     |
| 54                                                         | 2   | 1   | 0   | 0   | 57  |     |

| STATION ROAD WEST<br>STRAIGHT AHEAD TO<br>HITCHIN ROAD EAST |     |     |     |     |     |     |
|-------------------------------------------------------------|-----|-----|-----|-----|-----|-----|
| CAR                                                         | HGV | BUS | MCY | PCY | TOT |     |
| 29                                                          |     |     |     |     | 29  |     |
| 38                                                          |     |     |     |     | 38  |     |
| 56                                                          |     |     |     | 1   | 57  |     |
| 54                                                          | 1   |     |     |     | 55  |     |
| 53                                                          |     |     | 1   |     | 54  |     |
| 34                                                          |     |     |     |     | 34  |     |
| 39                                                          |     |     |     |     | 39  |     |
| 38                                                          |     |     |     | 2   | 40  |     |
| 21                                                          |     |     |     |     | 21  |     |
| 15                                                          | 1   |     |     |     | 16  |     |
| 21                                                          | 1   |     |     |     | 22  |     |
| 29                                                          | 1   |     |     |     | 30  |     |
| 0700-1000                                                   | 427 | 8   | 1   | 3   | 0   | 438 |
|                                                             |     |     |     |     |     |     |
| 177                                                         | 2   | 0   | 1   | 0   | 180 |     |
| 201                                                         | 3   | 1   | 1   | 0   | 205 |     |
| 197                                                         | 4   | 1   | 1   | 0   | 203 |     |
| 180                                                         | 3   | 1   | 0   | 0   | 194 |     |
| 164                                                         | 3   | 1   | 2   | 0   | 180 |     |
| 132                                                         | 2   | 0   | 2   | 0   | 136 |     |
| 113                                                         | 2   | 0   | 2   | 0   | 117 |     |
| 95                                                          | 3   | 0   | 2   | 0   | 100 |     |
| 86                                                          | 3   | 0   | 0   | 0   | 92  |     |

K&M TRAFFIC SURVEYS

DATE : THURSDAY 12TH JUNE 2025

LOCATION : ICKELFORD & HENLOW, HERTS

BOUT, HENLOW

| ROAD EAST<br>TURN TO<br>3D RD NORTH |     |     |
|-------------------------------------|-----|-----|
| MCY                                 | PCY | TOT |
|                                     | 16  |     |
|                                     | 12  |     |
|                                     | 19  |     |
|                                     | 14  |     |
|                                     | 7   |     |
|                                     | 5   |     |
|                                     | 7   |     |
|                                     | 16  |     |
|                                     | 13  |     |
|                                     | 8   |     |
|                                     | 13  |     |
|                                     | 16  |     |
| 0                                   | 0   | 146 |
|                                     |     |     |
| 0                                   | 0   | 61  |
| 0                                   | 0   | 52  |
| 0                                   | 0   | 45  |
| 0                                   | 0   | 33  |
| 0                                   | 0   | 35  |
| 0                                   | 0   | 41  |
| 0                                   | 0   | 44  |
| 0                                   | 0   | 50  |
| 0                                   | 0   | 50  |

| HITCHIN ROAD EAST<br>U TURNS |     |     |     |     |     |  |
|------------------------------|-----|-----|-----|-----|-----|--|
| CAR                          | HGV | BUS | MCY | PCY | TOT |  |
| 0                            | 1   |     |     |     | 1   |  |
| 0                            |     |     |     |     | 0   |  |
| 1                            |     |     |     |     | 1   |  |
| 0                            |     |     |     |     | 0   |  |
| 3                            |     |     |     |     | 3   |  |
| 1                            |     |     |     |     | 1   |  |
| 1                            |     |     |     |     | 1   |  |
| 0                            |     |     |     |     | 0   |  |
| 1                            |     |     |     |     | 1   |  |
| 4                            |     |     |     |     | 4   |  |
| 0                            |     |     |     |     | 0   |  |
| 0                            |     |     |     |     | 0   |  |
| 11                           | 1   | 0   | 0   | 0   | 12  |  |
|                              |     |     |     |     |     |  |
| 1                            | 1   | 0   | 0   | 0   | 2   |  |
| 4                            | 0   | 0   | 0   | 0   | 4   |  |
| 5                            | 0   | 0   | 0   | 0   | 5   |  |
| 5                            | 0   | 0   | 0   | 0   | 5   |  |
| 5                            | 0   | 0   | 0   | 0   | 5   |  |
| 3                            | 0   | 0   | 0   | 0   | 3   |  |
| 6                            | 0   | 0   | 0   | 0   | 6   |  |
| 5                            | 0   | 0   | 0   | 0   | 5   |  |
| 5                            | 0   | 0   | 0   | 0   | 5   |  |

J2 - BEDFORD ROAD / STATION ROAD / HITCHIN ROAD ROUNDABOUT, HENLOW

| A600 BEDFORD RD SOUTH<br>LEFT TURN TO<br>STATION ROAD WEST |     |     |     |     |     |     |
|------------------------------------------------------------|-----|-----|-----|-----|-----|-----|
| CAR                                                        | HGV | BUS | MCY | PCY | TOT |     |
| 41                                                         | 1   | 3   |     |     | 45  |     |
| 35                                                         |     |     |     |     | 35  |     |
| 41                                                         |     | 2   |     |     | 43  |     |
| 43                                                         |     |     |     |     | 43  |     |
| 39                                                         |     |     |     |     | 39  |     |
| 58                                                         |     |     | 1   |     | 59  |     |
| 45                                                         | 1   |     |     |     | 46  |     |
| 43                                                         | 1   |     | 1   |     | 45  |     |
| 41                                                         |     |     |     |     | 41  |     |
| 37                                                         |     |     |     |     | 37  |     |
| 34                                                         |     |     | 1   |     | 35  |     |
| 38                                                         |     |     | 1   | 1   | 40  |     |
| 1600-1900                                                  | 495 | 3   | 3   | 5   | 2   | 508 |
|                                                            |     |     |     |     |     |     |
| 160                                                        | 1   | 3   | 2   | 0   | 166 |     |
| 158                                                        | 0   | 0   | 2   | 0   | 160 |     |
| 181                                                        | 0   | 0   | 3   | 0   | 184 |     |
| 185                                                        | 1   | 0   | 1   | 0   | 187 |     |
| 185                                                        | 2   | 0   | 1   | 1   | 189 |     |
| 187                                                        | 2   | 0   | 1   | 1   | 191 |     |
| 166                                                        | 2   | 0   | 0   | 1   | 169 |     |
| 155                                                        | 1   | 0   | 1   | 1   | 158 |     |
| 150                                                        | 0   | 0   | 2   | 1   | 153 |     |

| A600 BEDFORD RD SOUTH<br>STRAIGHT AHEAD TO<br>A600 BEDFORD RD NORTH |     |     |     |     |     |    |
|---------------------------------------------------------------------|-----|-----|-----|-----|-----|----|
| CAR                                                                 | HGV | BUS | MCY | PCY | TOT |    |
| 82                                                                  | 2   |     | 1   |     | 85  |    |
| 93                                                                  | 1   |     |     |     | 94  |    |
| 94                                                                  |     |     | 1   | 1   | 96  |    |
| 82                                                                  | 1   |     |     |     | 83  |    |
| 90                                                                  | 2   |     |     |     | 92  |    |
| 108                                                                 | 1   |     |     |     | 109 |    |
| 85                                                                  | 2   |     | 1   |     | 88  |    |
| 74                                                                  | 1   | 1   | 1   |     | 77  |    |
| 72                                                                  |     |     | 1   |     | 73  |    |
| 80                                                                  |     |     | 1   |     | 81  |    |
| 53                                                                  | 1   |     | 1   |     | 55  | </ |

3 / HITCHIN ROAD ROUNDABOUT, HENLOW

| TOT | STATION ROAD WEST<br>RIGHT TURN TO<br>A600 BEDFORD RD SOUTH |     |     |     |     |  | TOT | STATION ROAD WEST<br>U TURNS |     |     |     |     |   | TOT |
|-----|-------------------------------------------------------------|-----|-----|-----|-----|--|-----|------------------------------|-----|-----|-----|-----|---|-----|
|     | CAR                                                         | HGV | BUS | MCV | PCV |  |     | CAR                          | HGV | BUS | MCV | PCV |   |     |
| 29  | 33                                                          |     |     |     |     |  | 33  | 0                            |     |     |     |     |   | 0   |
| 38  | 58                                                          | 2   |     |     |     |  | 60  | 0                            |     |     |     |     |   | 0   |
| 58  | 62                                                          | 1   | 1   |     |     |  | 64  | 0                            |     |     |     |     |   | 0   |
| 55  | 39                                                          |     |     | 1   |     |  | 40  | 0                            |     |     |     |     |   | 0   |
| 55  | 33                                                          | 2   |     | 1   |     |  | 36  | 0                            |     |     |     |     |   | 0   |
| 35  | 30                                                          |     | 1   |     |     |  | 31  | 0                            |     |     |     |     |   | 0   |
| 39  | 16                                                          |     |     |     |     |  | 16  | 0                            |     |     |     |     |   | 0   |
| 41  | 33                                                          | 1   |     |     |     |  | 34  | 0                            |     |     |     |     |   | 0   |
| 21  | 30                                                          |     |     |     |     |  | 30  | 0                            |     |     |     |     |   | 0   |
| 16  | 25                                                          |     |     |     |     |  | 25  | 0                            |     |     |     |     |   | 0   |
| 22  | 17                                                          |     |     |     |     |  | 17  | 0                            |     |     |     |     |   | 0   |
| 30  | 19                                                          |     |     |     |     |  | 19  | 0                            |     |     |     |     |   | 0   |
| 439 | 395                                                         | 6   | 2   | 2   | 0   |  | 405 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
|     |                                                             |     |     |     |     |  |     |                              |     |     |     |     |   |     |
| 180 | 192                                                         | 3   | 1   | 1   | 0   |  | 197 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 206 | 192                                                         | 5   | 1   | 2   | 0   |  | 200 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 203 | 164                                                         | 3   | 2   | 2   | 0   |  | 171 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 184 | 118                                                         | 2   | 1   | 2   | 0   |  | 123 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 170 | 112                                                         | 3   | 1   | 1   | 0   |  | 117 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 136 | 109                                                         | 1   | 1   | 0   | 0   |  | 111 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 117 | 104                                                         | 1   | 0   | 0   | 0   |  | 105 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 100 | 105                                                         | 1   | 0   | 0   | 0   |  | 106 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 89  | 91                                                          | 0   | 0   | 0   | 0   |  | 91  | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |

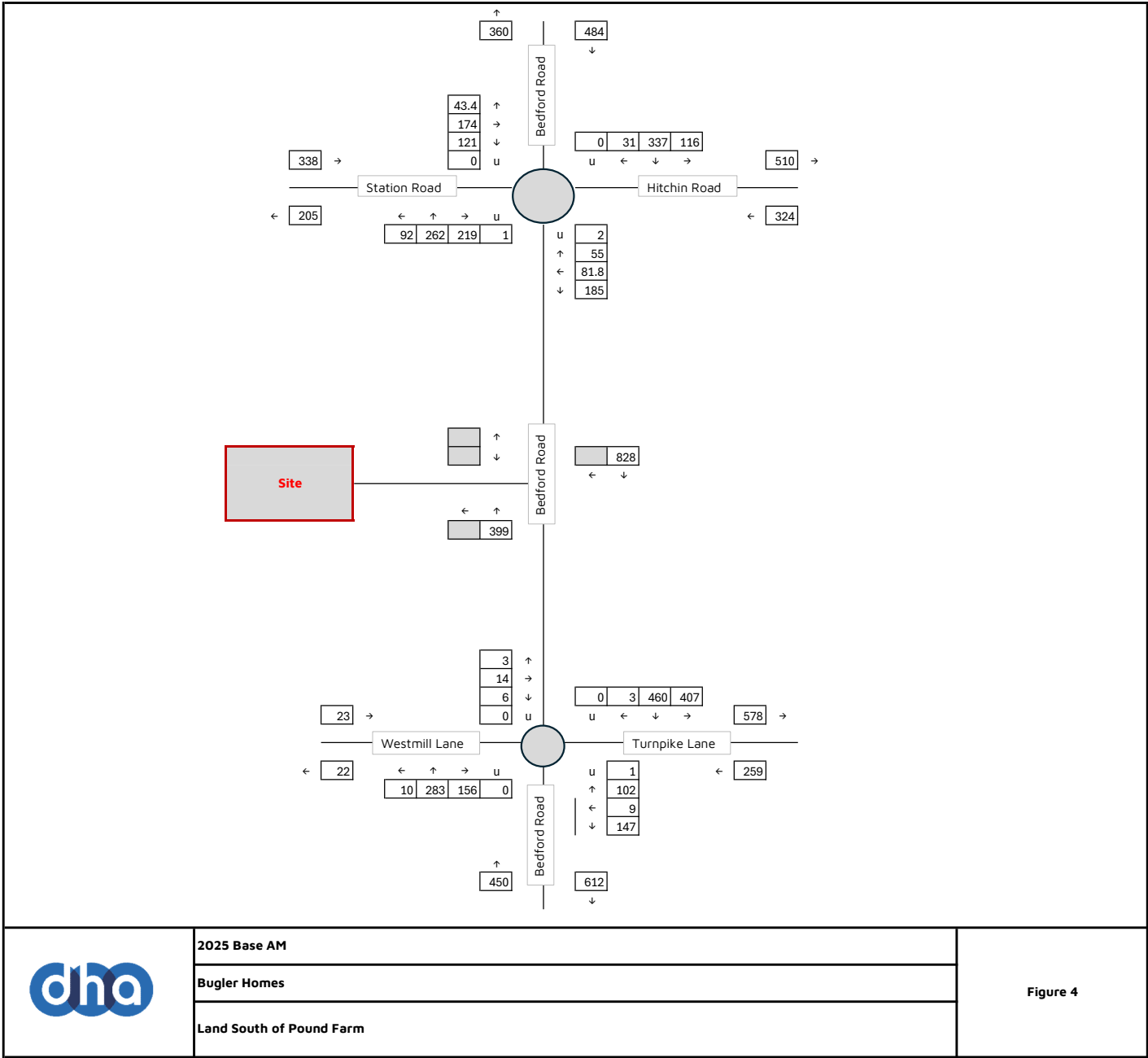
3 / HITCHIN ROAD ROUNDABOUT, HENLOW

| TOT | STATION ROAD WEST<br>RIGHT TURN TO<br>A600 BEDFORD RD SOUTH |     |     |     |     |  | TOT | STATION ROAD WEST<br>U TURNS |     |     |     |     |   | TOT |
|-----|-------------------------------------------------------------|-----|-----|-----|-----|--|-----|------------------------------|-----|-----|-----|-----|---|-----|
|     | CAR                                                         | HGV | BUS | MCV | PCV |  |     | CAR                          | HGV | BUS | MCV | PCV |   |     |
| 20  | 32                                                          | 1   |     | 1   |     |  | 34  | 0                            |     |     |     |     |   | 0   |
| 27  | 27                                                          |     |     |     |     |  | 27  | 0                            |     |     |     |     |   | 0   |
| 29  | 27                                                          |     | 1   |     |     |  | 28  | 1                            |     |     |     |     |   | 1   |
| 20  | 14                                                          |     | 1   |     |     |  | 15  | 1                            |     |     |     |     |   | 1   |
| 30  | 24                                                          |     |     |     | 1   |  | 25  | 0                            |     |     |     |     |   | 0   |
| 30  | 32                                                          |     | 1   |     | 1   |  | 34  | 0                            |     |     |     |     |   | 0   |
| 32  | 29                                                          |     |     |     |     |  | 29  | 0                            |     |     |     |     |   | 0   |
| 24  | 28                                                          |     |     |     |     |  | 28  | 0                            |     |     |     |     |   | 0   |
| 21  | 21                                                          |     |     | 1   |     |  | 22  | 0                            |     |     |     |     |   | 0   |
| 21  | 13                                                          | 1   |     |     |     |  | 14  | 0                            |     |     |     |     |   | 0   |
| 29  | 25                                                          |     |     |     |     |  | 25  | 0                            |     |     |     |     |   | 0   |
| 14  | 10                                                          |     |     |     |     |  | 10  | 0                            |     |     |     |     |   | 0   |
| 297 | 282                                                         | 2   | 4   | 1   | 2   |  | 291 | 2                            | 0   | 0   | 0   | 0   | 0 | 2   |
|     |                                                             |     |     |     |     |  |     |                              |     |     |     |     |   |     |
| 96  | 100                                                         | 1   | 2   | 1   | 0   |  | 104 | 2                            | 0   | 0   | 0   | 0   | 0 | 2   |
| 106 | 92                                                          | 0   | 2   | 0   | 1   |  | 95  | 2                            | 0   | 0   | 0   | 0   | 0 | 2   |
| 109 | 97                                                          | 0   | 3   | 0   | 2   |  | 102 | 2                            | 0   | 0   | 0   | 0   | 0 | 2   |
| 112 | 99                                                          | 0   | 2   | 0   | 2   |  | 103 | 1                            | 0   | 0   | 0   | 0   | 0 | 1   |
| 116 | 113                                                         | 0   | 1   | 0   | 2   |  | 116 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 107 | 110                                                         | 0   | 2   | 0   | 1   |  | 113 | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 98  | 91                                                          | 1   | 1   | 0   | 0   |  | 93  | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 95  | 87                                                          | 1   | 1   | 0   | 0   |  | 89  | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |
| 85  | 69                                                          | 1   | 1   | 0   | 0   |  | 71  | 0                            | 0   | 0   | 0   | 0   | 0 | 0   |

# APPENDIX

L



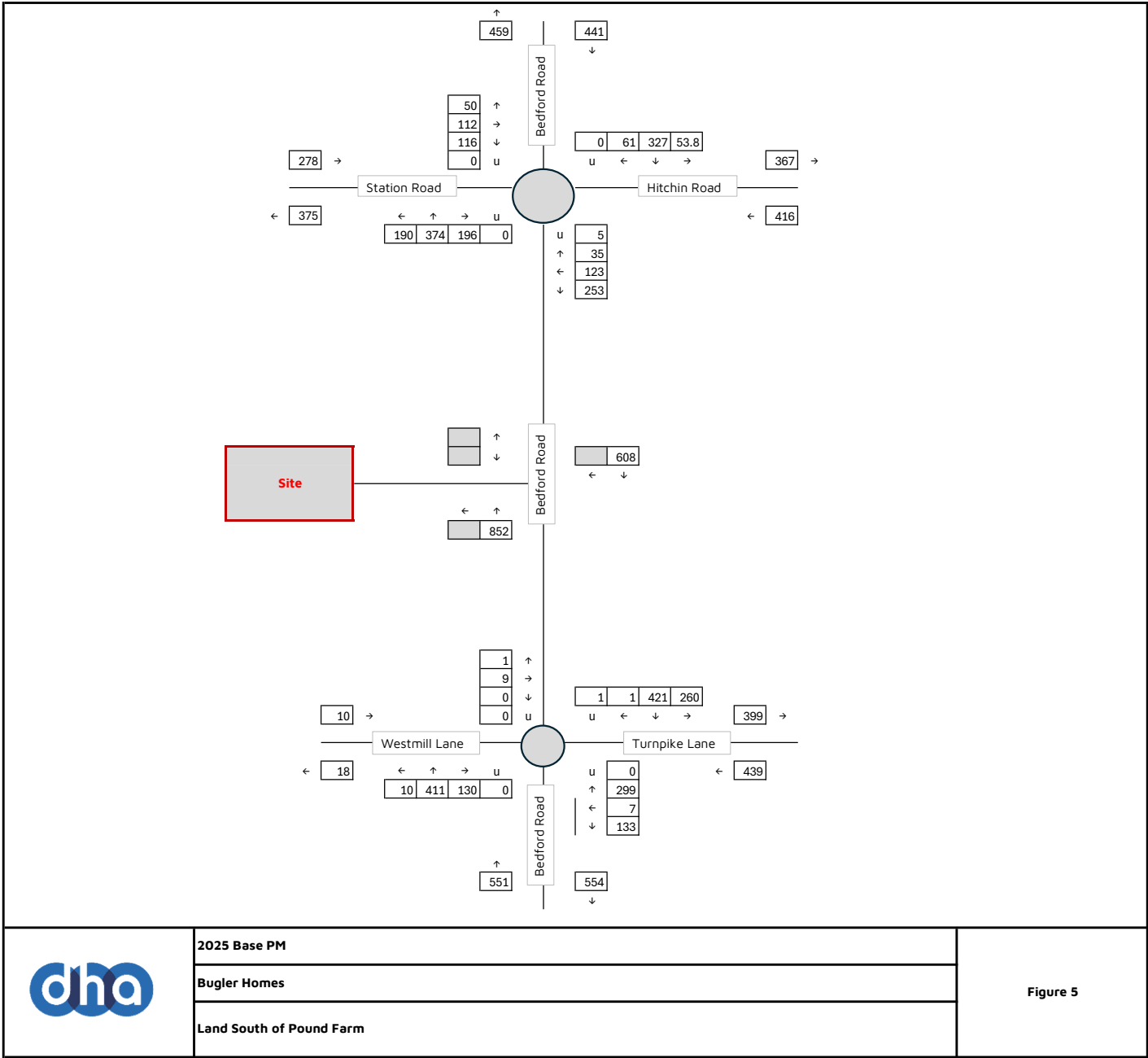


2025 Base AM

Bugler Homes

Land South of Pound Farm

Figure 4

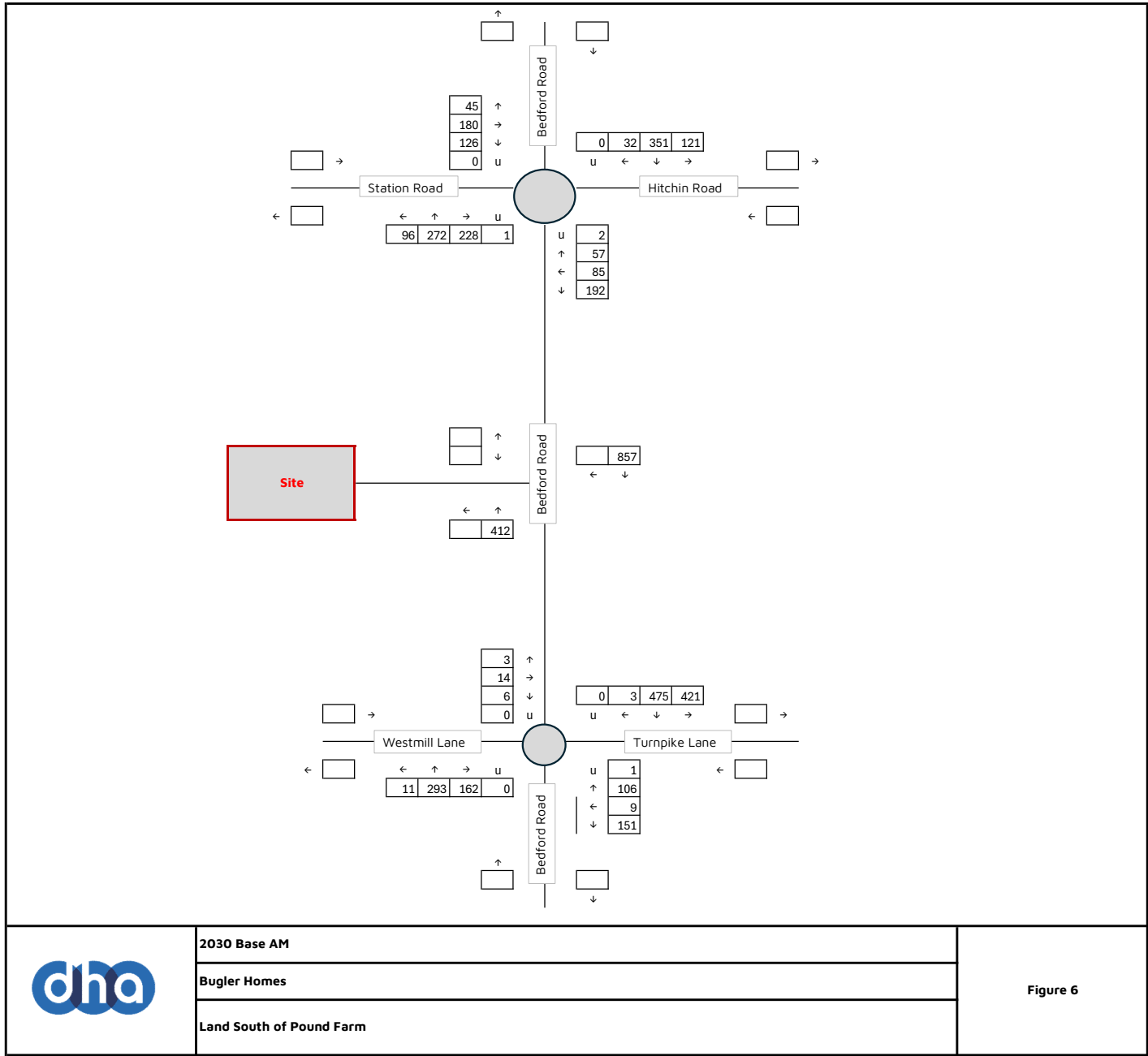


2025 Base PM

Bugler Homes

Land South of Pound Farm

Figure 5

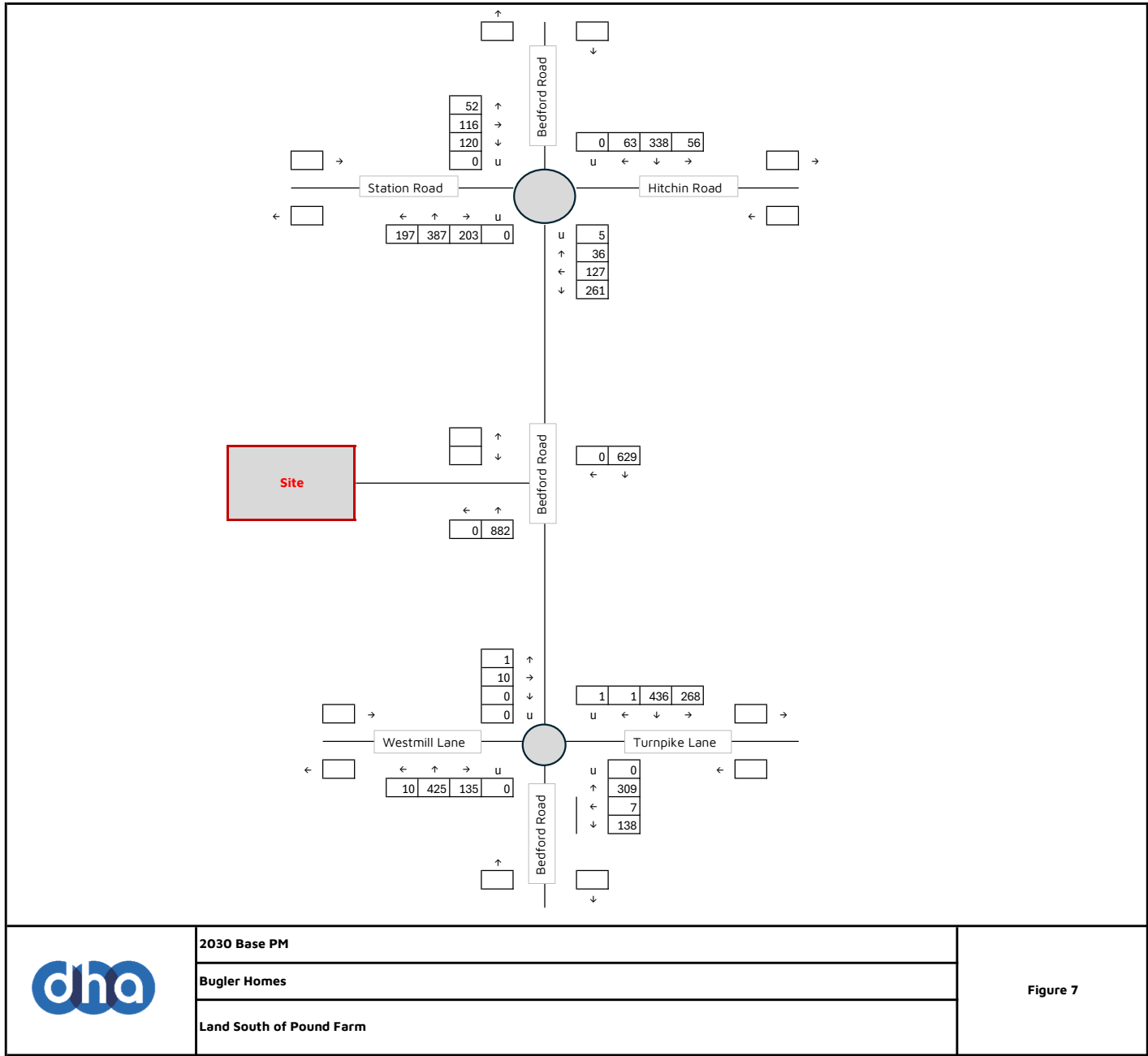


2030 Base AM

Bugler Homes

Land South of Pound Farm

Figure 6

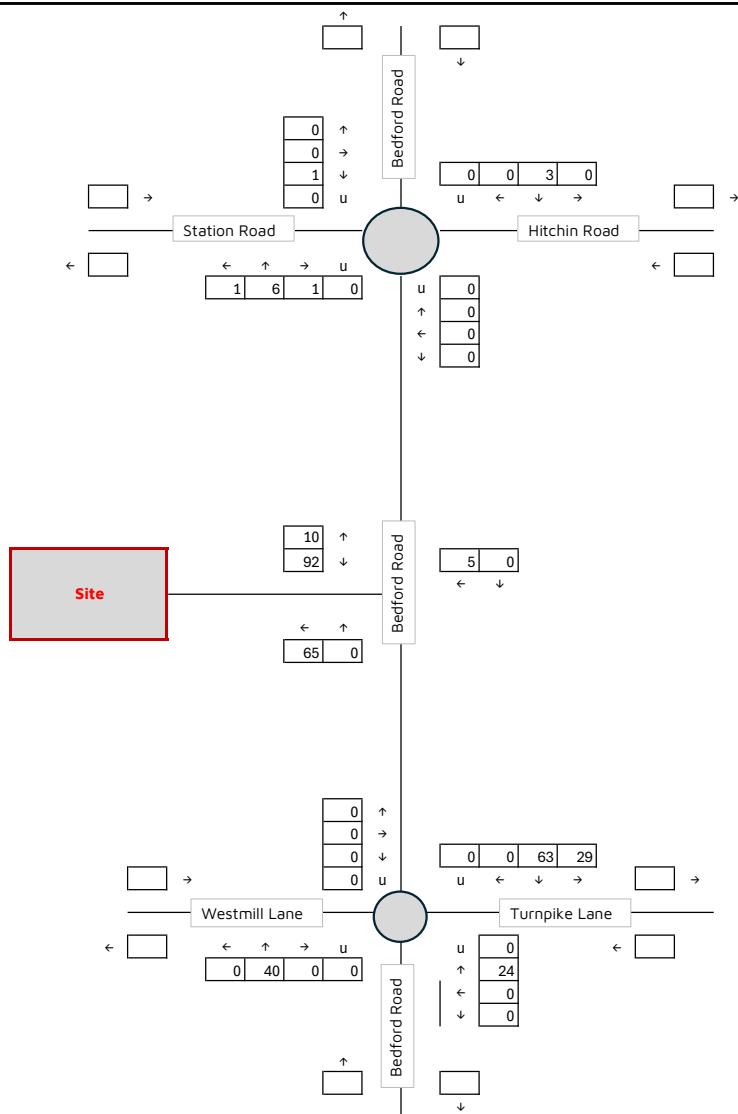


2030 Base PM

Bugler Homes

Land South of Pound Farm

Figure 7

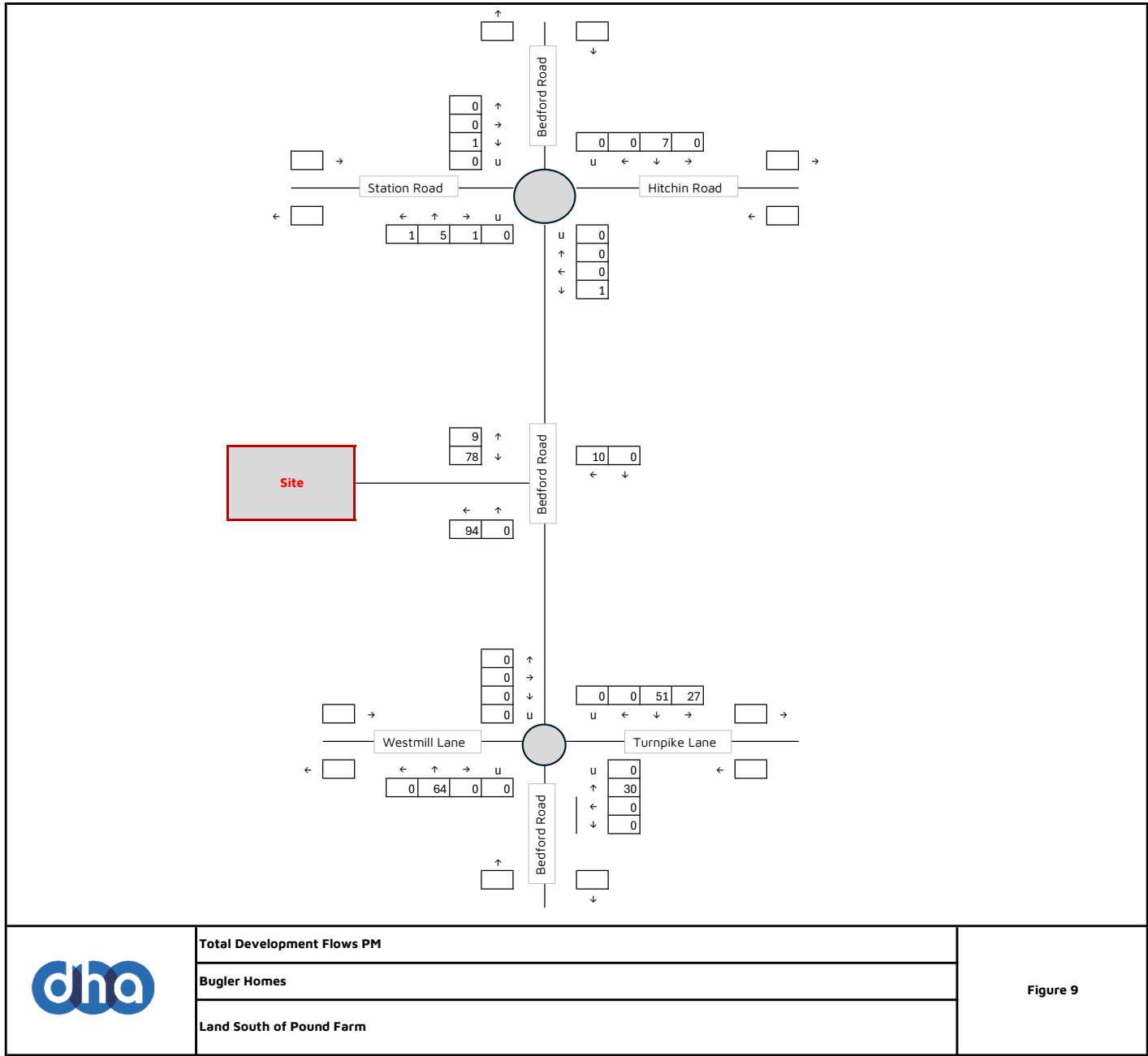


Total Development Flows AM

Bugler Homes

Land South of Pound Farm

Figure 8



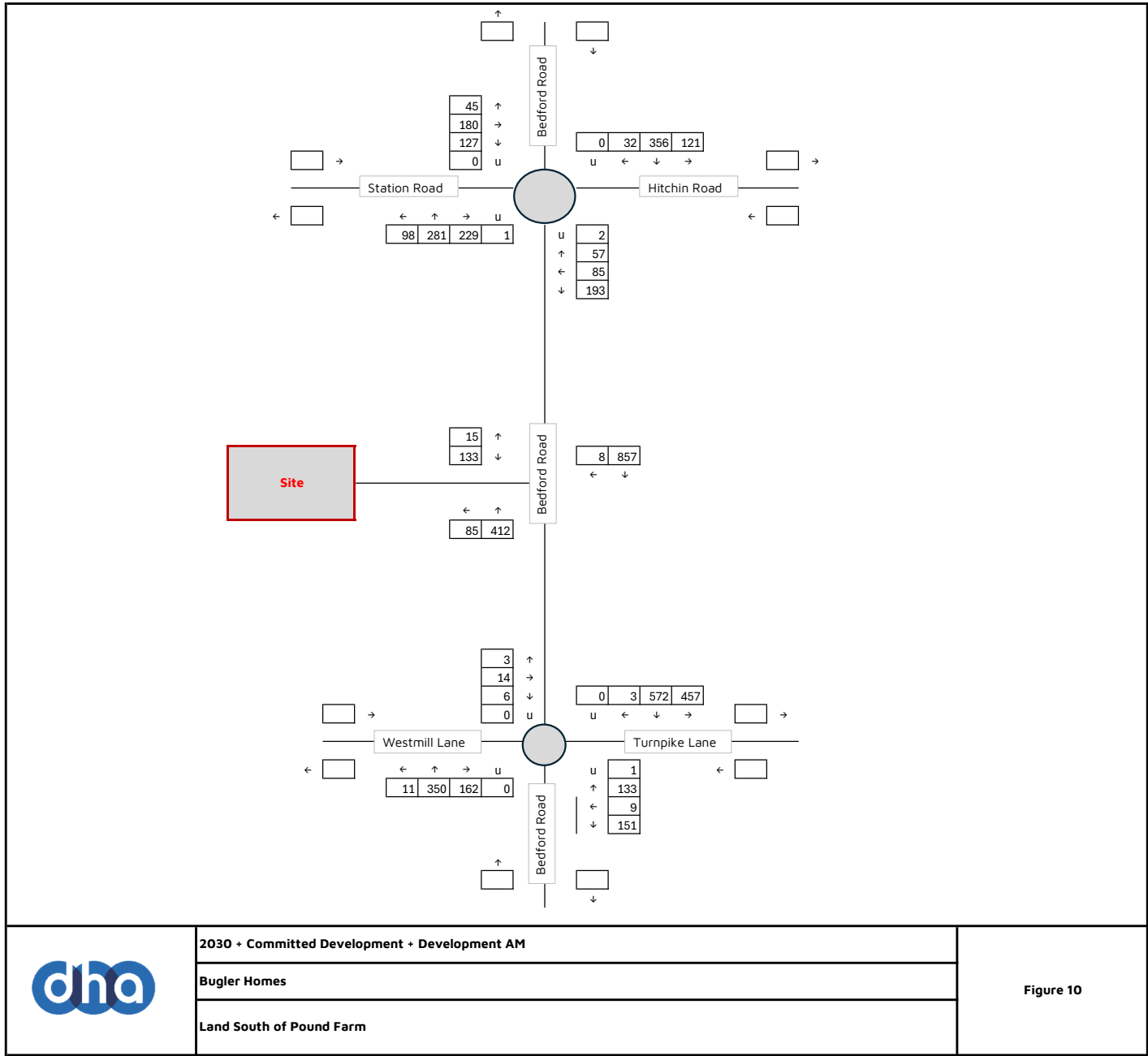
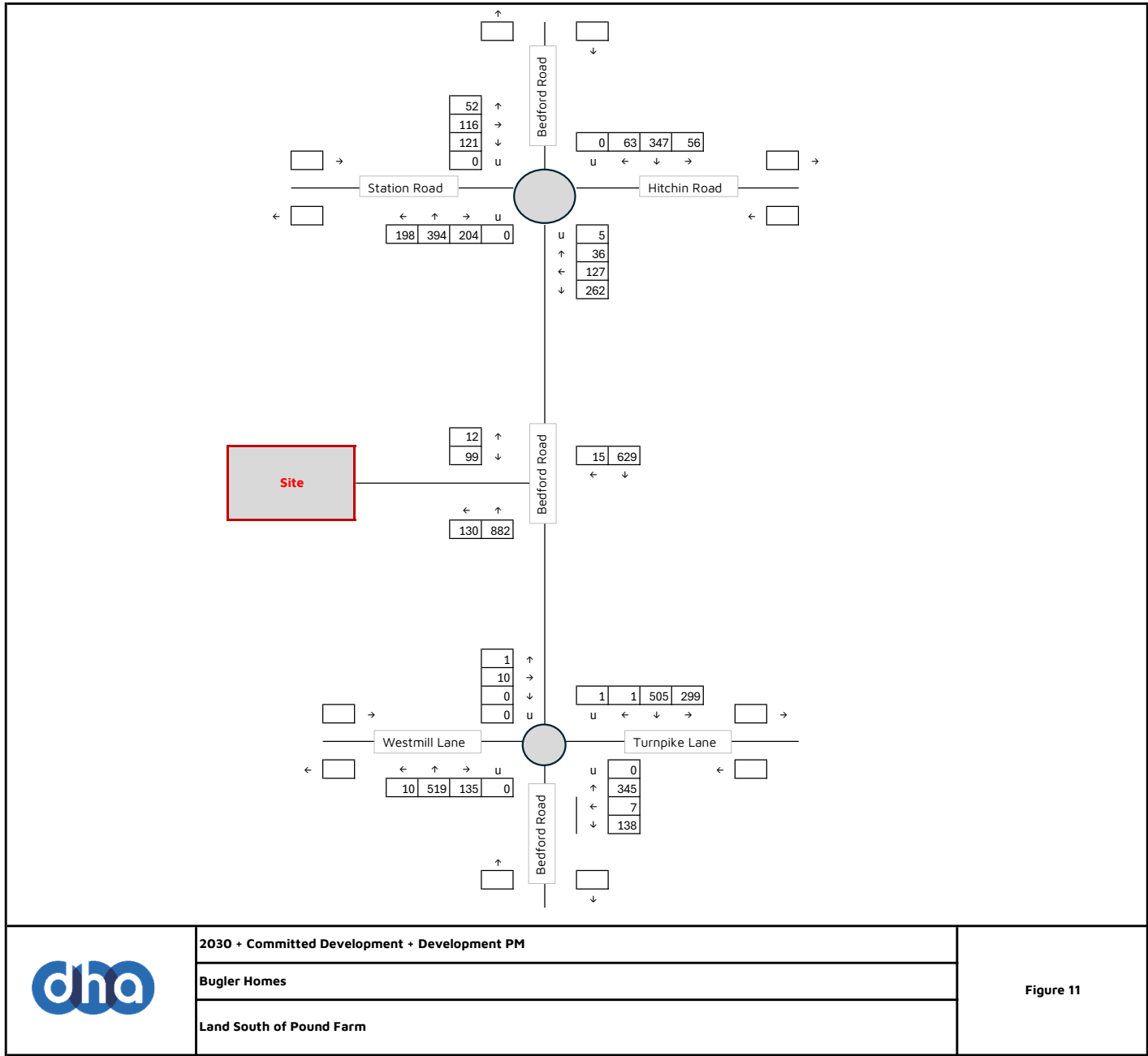


Figure 10



2030 + Committed Development + Development PM

Bugler Homes

Land South of Pound Farm

Figure 11

APPENDIX  
M



Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.0.0.2177  
© Copyright TRL Software Limited, 2024

For sales and distribution information, program advice and maintenance, contact TRL Software:  
+44 (0)1344 379777   software@trl.co.uk   trlsoftware.com

The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: Site access.j11  
Path: C:\Users\holly.benwell.DHA\OneDrive - DHA Planning & Development Consultants\Documents  
Report generation date: 16/01/2026 12:44:27

»2030 | Do Minimum | AM  
»2030 | Do Minimum | PM

Summary of junction performance

|             | AM                |             |           |      |     | PM     |             |           |      |     |
|-------------|-------------------|-------------|-----------|------|-----|--------|-------------|-----------|------|-----|
|             | Set ID            | Queue (PCU) | Delay (s) | RFC  | LOS | Set ID | Queue (PCU) | Delay (s) | RFC  | LOS |
|             | 2030 - Do Minimum |             |           |      |     |        |             |           |      |     |
| Stream B-AC | D5                | 1.3         | 29.74     | 0.57 | D   | D6     | 1.5         | 50.23     | 0.62 | F   |
| Stream C-AB |                   | 0.0         | 6.37      | 0.01 | A   |        | 0.0         | 8.52      | 0.04 | A   |

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.  
Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

|             |                   |
|-------------|-------------------|
| Title       |                   |
| Location    |                   |
| Site number |                   |
| Date        | 06/01/2026        |
| Version     |                   |
| Status      | (new file)        |
| Identifier  |                   |
| Client      |                   |
| Jobnumber   |                   |
| Enumerator  | DHA\holly.benwell |
| 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              |

Analysis Options

| Calculate Queue Percentiles | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) |
|-----------------------------|-----------------------------|---------------|-----------------------------|-----------------------|
|                             |                             | 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) |
|----|------|------------|-------------|----------------------|--------------------|---------------------|---------------------------|
| D5 | 2030 | Do Minimum | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        |
| D6 | 2030 | Do Minimum | PM          | ONE HOUR             | 16:45              | 18:15               | 15                        |

Analysis Set Details

| ID | Network flow scaling factor (%) |
|----|---------------------------------|
| A1 | 100.000                         |

# 2030 | Do Minimum | AM

## Data Errors and Warnings

| Severity | Area        | Item | Description                                                                                                                                                                                  |
|----------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Vehicle Mix |      | HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.89               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.89              | A           |

## Arms

### Arms

| Arm | Name     | Description | Arm type |
|-----|----------|-------------|----------|
| A   | untitled |             | Major    |
| B   | untitled |             | Minor    |
| C   | untitled |             | Major    |

### 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) |
|-----|--------------------------|----------------------------|------------------------|-------------------------------|---------|----------------------|
| C   | 7.00                     |                            |                        | 220.0                         | ✓       | 1.00                 |

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   | One lane       | 2.25           | 90                     | 90                      |

### Slope / Intercept / Capacity

#### Priority Intersection Slopes and Intercepts

| Stream | Intercept (PCU/hr) | Slope for A-B | Slope for A-C | Slope for C-A | Slope for C-B |
|--------|--------------------|---------------|---------------|---------------|---------------|
| B-A    | 511                | 0.089         | 0.225         | 0.141         | 0.321         |
| B-C    | 629                | 0.092         | 0.233         | -             | -             |
| C-B    | 701                | 0.260         | 0.260         | -             | -             |

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) |
|----|------|------------|-------------|----------------------|--------------------|---------------------|---------------------------|
| D5 | 2030 | Do Minimum | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        |

### Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| A   |            | ✓            | 492                     | 100.000            |
| B   |            | ✓            | 144                     | 100.000            |
| C   |            | ✓            | 864                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|  | To |     |    |     |
|--|----|-----|----|-----|
|  |    | A   | B  | C   |
|  | A  | 0   | 80 | 412 |
|  | B  | 129 | 0  | 15  |
|  | C  | 857 | 7  | 0   |

## Vehicle Mix

### Heavy Vehicle %

|  | To |   |   |   |
|--|----|---|---|---|
|  |    | A | B | C |
|  | A  | 0 | 0 | 0 |
|  | B  | 0 | 0 | 0 |
|  | C  | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS |
|--------|---------|---------------|-----------------|---------|
| B-AC   | 0.57    | 29.74         | 1.3             | D       |
| C-AB   | 0.01    | 6.37          | 0.0             | A       |
| C-A    |         |               |                 |         |
| A-B    |         |               |                 |         |
| A-C    |         |               |                 |         |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 108                   | 0.00                       | 357               | 0.304 | 107                 | 0.4             | 14.312    | B                             |
| C-AB   | 5                     | 0.00                       | 611               | 0.009 | 5                   | 0.0             | 5.945     | A                             |
| C-A    | 645                   | 0.00                       |                   |       | 645                 |                 |           |                               |
| A-B    | 60                    | 0.00                       |                   |       | 60                  |                 |           |                               |
| A-C    | 310                   | 0.00                       |                   |       | 310                 |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 129                   | 0.00                       | 324               | 0.399 | 129                 | 0.6             | 18.314    | C                             |
| C-AB   | 6                     | 0.00                       | 595               | 0.011 | 6                   | 0.0             | 6.118     | A                             |
| C-A    | 770                   | 0.00                       |                   |       | 770                 |                 |           |                               |
| A-B    | 72                    | 0.00                       |                   |       | 72                  |                 |           |                               |
| A-C    | 370                   | 0.00                       |                   |       | 370                 |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 159                   | 0.00                       | 279               | 0.568 | 156                 | 1.2             | 28.767    | D                             |
| C-AB   | 8                     | 0.00                       | 574               | 0.014 | 8                   | 0.0             | 6.363     | A                             |
| C-A    | 943                   | 0.00                       |                   |       | 943                 |                 |           |                               |
| A-B    | 88                    | 0.00                       |                   |       | 88                  |                 |           |                               |
| A-C    | 454                   | 0.00                       |                   |       | 454                 |                 |           |                               |

## 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 159                   | 0.00                       | 279               | 0.568 | 158                 | 1.3             | 29.739    | D                             |
| C-AB   | 8                     | 0.00                       | 574               | 0.014 | 8                   | 0.0             | 6.366     | A                             |
| C-A    | 943                   | 0.00                       |                   |       | 943                 |                 |           |                               |
| A-B    | 88                    | 0.00                       |                   |       | 88                  |                 |           |                               |
| A-C    | 454                   | 0.00                       |                   |       | 454                 |                 |           |                               |

## 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 129                   | 0.00                       | 324               | 0.399 | 132                 | 0.7             | 18.920    | C                             |
| C-AB   | 6                     | 0.00                       | 595               | 0.011 | 6                   | 0.0             | 6.121     | A                             |
| C-A    | 770                   | 0.00                       |                   |       | 770                 |                 |           |                               |
| A-B    | 72                    | 0.00                       |                   |       | 72                  |                 |           |                               |
| A-C    | 370                   | 0.00                       |                   |       | 370                 |                 |           |                               |

## 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 108                   | 0.00                       | 357               | 0.304 | 109                 | 0.4             | 14.614    | B                             |
| C-AB   | 5                     | 0.00                       | 611               | 0.009 | 5                   | 0.0             | 5.946     | A                             |
| C-A    | 645                   | 0.00                       |                   |       | 645                 |                 |           |                               |
| A-B    | 60                    | 0.00                       |                   |       | 60                  |                 |           |                               |
| A-C    | 310                   | 0.00                       |                   |       | 310                 |                 |           |                               |

# 2030 | Do Minimum | PM

## Data Errors and Warnings

| Severity | Area        | Item | Description                                                                                                                                                                                  |
|----------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Vehicle Mix |      | HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 3.10               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 3.10              | 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) |
|----|------|------------|-------------|----------------------|--------------------|---------------------|---------------------------|
| D6 | 2030 | Do Minimum | PM          | ONE HOUR             | 16:45              | 18:15               | 15                        |

### Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| A   |            | ✓            | 1009                    | 100.000            |
| B   |            | ✓            | 106                     | 100.000            |
| C   |            | ✓            | 644                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|  | To |     |     |     |
|--|----|-----|-----|-----|
|  |    | A   | B   | C   |
|  | A  | 0   | 127 | 882 |
|  | B  | 95  | 0   | 11  |
|  | C  | 629 | 15  | 0   |

## Vehicle Mix

### Heavy Vehicle %

|  | To |   |   |   |
|--|----|---|---|---|
|  |    | A | B | C |
|  | A  | 0 | 0 | 0 |
|  | B  | 0 | 0 | 0 |
|  | C  | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS |
|--------|---------|---------------|-----------------|---------|
| B-AC   | 0.62    | 50.23         | 1.5             | F       |
| C-AB   | 0.04    | 8.52          | 0.0             | A       |
| C-A    |         |               |                 |         |
| A-B    |         |               |                 |         |
| A-C    |         |               |                 |         |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 80                    | 0.00                       | 294               | 0.271 | 78                  | 0.4             | 16.566    | C                             |
| C-AB   | 12                    | 0.00                       | 515               | 0.022 | 11                  | 0.0             | 7.156     | A                             |
| C-A    | 473                   | 0.00                       |                   |       | 473                 |                 |           |                               |
| A-B    | 96                    | 0.00                       |                   |       | 96                  |                 |           |                               |
| A-C    | 664                   | 0.00                       |                   |       | 664                 |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 95                    | 0.00                       | 250               | 0.382 | 94                  | 0.6             | 23.051    | C                             |
| C-AB   | 14                    | 0.00                       | 482               | 0.029 | 14                  | 0.0             | 7.691     | A                             |
| C-A    | 565                   | 0.00                       |                   |       | 565                 |                 |           |                               |
| A-B    | 114                   | 0.00                       |                   |       | 114                 |                 |           |                               |
| A-C    | 793                   | 0.00                       |                   |       | 793                 |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 117                   | 0.00                       | 187               | 0.623 | 113                 | 1.5             | 46.678    | E                             |
| C-AB   | 18                    | 0.00                       | 440               | 0.040 | 18                  | 0.0             | 8.514     | A                             |
| C-A    | 691                   | 0.00                       |                   |       | 691                 |                 |           |                               |
| A-B    | 140                   | 0.00                       |                   |       | 140                 |                 |           |                               |
| A-C    | 971                   | 0.00                       |                   |       | 971                 |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 117                   | 0.00                       | 187               | 0.624 | 116                 | 1.5             | 50.232    | F                             |
| C-AB   | 18                    | 0.00                       | 440               | 0.040 | 18                  | 0.0             | 8.516     | A                             |
| C-A    | 691                   | 0.00                       |                   |       | 691                 |                 |           |                               |
| A-B    | 140                   | 0.00                       |                   |       | 140                 |                 |           |                               |
| A-C    | 971                   | 0.00                       |                   |       | 971                 |                 |           |                               |

#### 17:45 - 18:00

| Stream | Total Demand (PCU/hr) | Pedestrian demand (Ped/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|----------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| B-AC   | 95                    | 0.00                       | 250               | 0.382 | 99                  | 0.6             | 24.420    | C                             |
| C-AB   | 14                    | 0.00                       | 482               | 0.029 | 14                  | 0.0             | 7.693     | A                             |
| C-A    | 565                   | 0.00                       |                   |       | 565                 |                 |           |                               |
| A-B    | 114                   | 0.00                       |                   |       | 114                 |                 |           |                               |
| A-C    | 793                   | 0.00                       |                   |       | 793                 |                 |           |                               |

18:00 - 18:15

| Stream | Total Demand<br>(PCU/hr) | Pedestrian<br>demand<br>(Ped/hr) | Capacity<br>(PCU/hr) | RFC   | Throughput<br>(PCU/hr) | End queue<br>(PCU) | Delay (s) | Unsignalised<br>level of service |
|--------|--------------------------|----------------------------------|----------------------|-------|------------------------|--------------------|-----------|----------------------------------|
| B-AC   | 80                       | 0.00                             | 294                  | 0.271 | 81                     | 0.4                | 16.951    | C                                |
| C-AB   | 12                       | 0.00                             | 515                  | 0.022 | 12                     | 0.0                | 7.157     | A                                |
| C-A    | 473                      | 0.00                             |                      |       | 473                    |                    |           |                                  |
| A-B    | 96                       | 0.00                             |                      |       | 96                     |                    |           |                                  |
| A-C    | 664                      | 0.00                             |                      |       | 664                    |                    |           |                                  |

| Junctions 11                                                                                                                                                     |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| ARCADY 11 - Roundabout Module                                                                                                                                    |  |  |  |  |  |  |
| Version: 11.0.0.2177<br>© Copyright TRL Software Limited, 2024                                                                                                   |  |  |  |  |  |  |
| For sales and distribution information, program advice and maintenance, contact TRL Software:<br>+44 (0)1344 379777 software@trl.co.uk trlsoftware.com           |  |  |  |  |  |  |
| The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution |  |  |  |  |  |  |

Filename: (new file)

Path:

Report generation date: 09/01/2026 14:12:12

»2025 | | PM

»2030 | Base + CD | PM

»2030 | Base + CD + Dev | PM

### Summary of junction performance

|       | PM                     |             |           |      |     |                           |
|-------|------------------------|-------------|-----------|------|-----|---------------------------|
|       | Set ID                 | Queue (PCU) | Delay (s) | RFC  | LOS | Network Residual Capacity |
|       | 2025                   |             |           |      |     |                           |
| Arm 1 | D1                     | 1.9         | 9.11      | 0.65 | A   | 36 %<br><br>[Arm 4]       |
| Arm 2 |                        | 0.9         | 7.02      | 0.48 | A   |                           |
| Arm 3 |                        | 1.1         | 6.74      | 0.52 | A   |                           |
| Arm 4 |                        | 0.0         | 11.88     | 0.04 | B   |                           |
|       | 2030 - Base + CD       |             |           |      |     |                           |
| Arm 1 | D3                     | 2.3         | 10.46     | 0.69 | B   | 26 %<br><br>[Arm 4]       |
| Arm 2 |                        | 1.1         | 7.70      | 0.52 | A   |                           |
| Arm 3 |                        | 1.4         | 7.64      | 0.57 | A   |                           |
| Arm 4 |                        | 0.0         | 13.88     | 0.04 | B   |                           |
|       | 2030 - Base + CD + Dev |             |           |      |     |                           |
| Arm 1 | D5                     | 3.3         | 13.75     | 0.77 | B   | 15 %<br><br>[Arm 4]       |
| Arm 2 |                        | 1.3         | 8.92      | 0.57 | A   |                           |
| Arm 3 |                        | 1.9         | 9.33      | 0.64 | A   |                           |
| Arm 4 |                        | 0.1         | 18.08     | 0.06 | C   |                           |

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

## File summary

### File Description

|             |                   |
|-------------|-------------------|
| Title       |                   |
| Location    |                   |
| Site number |                   |
| Date        | 05/01/2026        |
| Version     |                   |
| Status      | (new file)        |
| Identifier  |                   |
| Client      |                   |
| Jobnumber   |                   |
| Enumerator  | DHA\holly.benwell |
| 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              |

## Analysis Options

| Mini-roundabout 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 | Residual capacity criteria type | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) | Use simulation for HCM roundabouts | Use iterations for HCM roundabouts |
|-----------------------|--------------------|-----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------|---------------------------------|---------------|-----------------------------|-----------------------|------------------------------------|------------------------------------|
| JUNCTIONS 9           | 5.75               |                             |                                   |                                   |                                   | ✓                           | Delay                           | 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 | 2025 |                 | PM          | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D3 | 2030 | Base + CD       | PM          | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D5 | 2030 | Base + CD + Dev | 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                             |

# 2025 | PM

## Data Errors and Warnings

| Severity | Area            | Item | Description                                                                                                                                                                                                                                 |
|----------|-----------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Mini-roundabout |      | Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 73% of the total flow for the roundabout for one or more time segments] |

## Junction Network

### Junctions

| Junction | Name     | Junction type   | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|-----------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Mini-roundabout |                       | 1, 2, 3, 4 | 7.81               | A            |

### Junction Network

| Driving side | Lighting       | Road surface   | In London | Network residual capacity (%) | First arm reaching threshold | Network delay (s) | Network LOS |
|--------------|----------------|----------------|-----------|-------------------------------|------------------------------|-------------------|-------------|
| Left         | Normal/unknown | Normal/unknown |           | 36                            | Arm 4                        | 7.81              | A           |

## Arms

### Arms

| Arm | Name             | Description |
|-----|------------------|-------------|
| 1   | Bedford Road (N) |             |
| 2   | Turnpike Lane    |             |
| 3   | Bedford Road (S) |             |
| 4   | Westmill Lane    |             |

### Mini Roundabout Geometry

| Arm | Approach road half-width (m) | Minimum approach road half-width (m) | Entry width (m) | Effective flare length (m) | Distance to next arm (m) | Entry corner kerb line distance (m) | Gradient over 50m (%) | Kerbed central island |
|-----|------------------------------|--------------------------------------|-----------------|----------------------------|--------------------------|-------------------------------------|-----------------------|-----------------------|
| 1   | 3.00                         | 3.00                                 | 4.90            | 1.5                        | 11.00                    | 8.20                                | 0.0                   | ✓                     |
| 2   | 3.00                         | 3.00                                 | 3.60            | 0.6                        | 11.30                    | 8.30                                | 0.0                   |                       |
| 3   | 3.20                         | 3.20                                 | 4.60            | 4.6                        | 11.50                    | 8.30                                | 0.0                   |                       |
| 4   | 2.60                         | 2.60                                 | 3.00            | 4.6                        | 13.60                    | 9.20                                | 0.0                   |                       |

### Slope / Intercept / Capacity

#### Arm Intercept Adjustments

| Arm | Type       | Reason | Percentage intercept adjustment (%) |
|-----|------------|--------|-------------------------------------|
| 1   | Percentage |        | 135.00                              |
| 2   | Percentage |        | 148.00                              |
| 3   | Percentage |        | 145.00                              |
| 4   | None       |        |                                     |

#### Roundabout Slope and Intercept used in model

| Arm | Final slope | Final intercept (PCU/hr) |
|-----|-------------|--------------------------|
| 1   | 0.494       | 1236                     |
| 2   | 0.596       | 1282                     |
| 3   | 0.625       | 1383                     |
| 4   | 0.588       | 859                      |

The slope and intercept shown above include any corrections and adjustments.

## Traffic Demand

### Demand Set Details

| ID | Year | Time period | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------|-------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2025 | 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 (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| 1   |            | ONE HOUR     | ✓            | 683                     | 100.000            |
| 2   |            | ONE HOUR     | ✓            | 439                     | 100.000            |
| 3   |            | ONE HOUR     | ✓            | 551                     | 100.000            |
| 4   |            | ONE HOUR     | ✓            | 10                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |    |  |
|------|----|-----|-----|----|--|
|      | 1  | 2   | 3   | 4  |  |
| From | 1  | 260 | 421 | 1  |  |
|      | 2  | 0   | 133 | 7  |  |
|      | 3  | 130 | 0   | 10 |  |
|      | 4  | 9   | 0   | 0  |  |

## Vehicle Mix

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

### Heavy Vehicle %

|      | To |   |   |   |  |
|------|----|---|---|---|--|
|      | 1  | 2 | 3 | 4 |  |
| From | 0  | 1 | 5 | 0 |  |
|      | 1  | 0 | 3 | 0 |  |
|      | 7  | 2 | 0 | 0 |  |
|      | 0  | 0 | 0 | 0 |  |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| 1   | 0.65    | 9.11          | 1.9             | A       | 627                     | 940                           |
| 2   | 0.48    | 7.02          | 0.9             | A       | 403                     | 604                           |
| 3   | 0.52    | 6.74          | 1.1             | A       | 506                     | 758                           |
| 4   | 0.04    | 11.88         | 0.0             | B       | 9                       | 14                            |

## Main Results for each time segment

### 16:45 - 17:00

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 514                   | 129                     | 104                       | 1184              | 0.434 | 511                 | 533                             | 0.0               | 0.8             | 5.505     | A                             |
| 2   | 331                   | 83                      | 317                       | 1093              | 0.302 | 329                 | 299                             | 0.0               | 0.4             | 4.773     | A                             |
| 3   | 415                   | 104                     | 231                       | 1238              | 0.335 | 413                 | 415                             | 0.0               | 0.5             | 4.596     | A                             |
| 4   | 8                     | 2                       | 630                       | 488               | 0.015 | 7                   | 13                              | 0.0               | 0.0             | 7.488     | A                             |

### 17:00 - 17:15

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 614                   | 154                     | 125                       | 1174              | 0.523 | 613                 | 639                             | 0.8               | 1.1             | 6.615     | A                             |
| 2   | 395                   | 99                      | 379                       | 1056              | 0.374 | 394                 | 358                             | 0.4               | 0.6             | 5.520     | A                             |
| 3   | 495                   | 124                     | 276                       | 1210              | 0.409 | 495                 | 497                             | 0.5               | 0.7             | 5.313     | A                             |
| 4   | 9                     | 2                       | 755                       | 415               | 0.022 | 9                   | 16                              | 0.0               | 0.0             | 8.872     | A                             |

### 17:15 - 17:30

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 752                   | 188                     | 153                       | 1160              | 0.648 | 749                 | 782                             | 1.1               | 1.9             | 8.986     | A                             |
| 2   | 483                   | 121                     | 464                       | 1005              | 0.481 | 482                 | 438                             | 0.6               | 0.9             | 6.972     | A                             |
| 3   | 607                   | 152                     | 338                       | 1171              | 0.518 | 605                 | 608                             | 0.7               | 1.1             | 6.701     | A                             |
| 4   | 11                    | 3                       | 924                       | 316               | 0.035 | 11                  | 20                              | 0.0               | 0.0             | 11.819    | B                             |

### 17:30 - 17:45

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 752                   | 188                     | 153                       | 1160              | 0.648 | 752                 | 784                             | 1.9               | 1.9             | 9.114     | A                             |
| 2   | 483                   | 121                     | 466                       | 1004              | 0.481 | 483                 | 439                             | 0.9               | 0.9             | 7.019     | A                             |
| 3   | 607                   | 152                     | 339                       | 1170              | 0.518 | 607                 | 610                             | 1.1               | 1.1             | 6.744     | A                             |
| 4   | 11                    | 3                       | 926                       | 314               | 0.035 | 11                  | 20                              | 0.0               | 0.0             | 11.876    | B                             |

### 17:45 - 18:00

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 614                   | 154                     | 125                       | 1174              | 0.523 | 617                 | 642                             | 1.9               | 1.2             | 6.719     | A                             |
| 2   | 395                   | 99                      | 382                       | 1054              | 0.374 | 396                 | 360                             | 0.9               | 0.6             | 5.568     | A                             |
| 3   | 495                   | 124                     | 278                       | 1209              | 0.410 | 497                 | 500                             | 1.1               | 0.7             | 5.353     | A                             |
| 4   | 9                     | 2                       | 758                       | 413               | 0.022 | 9                   | 16                              | 0.0               | 0.0             | 8.921     | A                             |

### 18:00 - 18:15

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 514                   | 129                     | 105                       | 1184              | 0.434 | 516                 | 537                             | 1.2               | 0.8             | 5.583     | A                             |
| 2   | 331                   | 83                      | 319                       | 1092              | 0.303 | 331                 | 301                             | 0.6               | 0.4             | 4.815     | A                             |
| 3   | 415                   | 104                     | 232                       | 1237              | 0.335 | 416                 | 418                             | 0.7               | 0.5             | 4.633     | A                             |
| 4   | 8                     | 2                       | 634                       | 486               | 0.016 | 8                   | 14                              | 0.0               | 0.0             | 7.534     | A                             |

# 2030 | Base + CD | PM

## Data Errors and Warnings

| Severity | Area            | Item | Description                                                                                                                                                                                                                                 |
|----------|-----------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Mini-roundabout |      | Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 73% of the total flow for the roundabout for one or more time segments] |

## Junction Network

### Junctions

| Junction | Name     | Junction type   | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|-----------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Mini-roundabout |                       | 1, 2, 3, 4 | 8.83               | A            |

### Junction Network

| Driving side | Lighting       | Road surface   | In London | Network residual capacity (%) | First arm reaching threshold | Network delay (s) | Network LOS |
|--------------|----------------|----------------|-----------|-------------------------------|------------------------------|-------------------|-------------|
| Left         | Normal/unknown | Normal/unknown |           | 26                            | Arm 4                        | 8.83              | 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 |
|----|------|-----------|-------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D3 | 2030 | Base + CD | 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 (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| 1   |            | ONE HOUR     | ✓            | 728                     | 100.000            |
| 2   |            | ONE HOUR     | ✓            | 461                     | 100.000            |
| 3   |            | ONE HOUR     | ✓            | 600                     | 100.000            |
| 4   |            | ONE HOUR     | ✓            | 11                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |     |    |
|------|----|-----|-----|-----|----|
|      | 1  | 2   | 3   | 4   |    |
| From | 1  | 272 | 454 | 1   |    |
|      | 2  | 316 | 0   | 138 | 7  |
|      | 3  | 455 | 135 | 0   | 10 |
|      | 4  | 1   | 10  | 0   | 0  |

## Vehicle Mix

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

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
|      | 1  | 0 | 1 | 5 | 0 |
|      | 2  | 1 | 0 | 3 | 0 |
|      | 3  | 7 | 2 | 0 | 0 |
| From | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| 1   | 0.69    | 10.46         | 2.3             | B       | 668                     | 1002                          |
| 2   | 0.52    | 7.70          | 1.1             | A       | 423                     | 635                           |
| 3   | 0.57    | 7.64          | 1.4             | A       | 551                     | 826                           |
| 4   | 0.04    | 13.88         | 0.0             | B       | 10                      | 15                            |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 548                   | 137                     | 109                       | 1182              | 0.464 | 545                 | 579                             | 0.0               | 0.9             | 5.811     | A                             |
| 2   | 347                   | 87                      | 341                       | 1079              | 0.322 | 345                 | 312                             | 0.0               | 0.5             | 4.973     | A                             |
| 3   | 452                   | 113                     | 243                       | 1230              | 0.367 | 449                 | 443                             | 0.0               | 0.6             | 4.858     | A                             |
| 4   | 8                     | 2                       | 679                       | 459               | 0.018 | 8                   | 13                              | 0.0               | 0.0             | 7.981     | A                             |

#### 17:00 - 17:15

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 654                   | 164                     | 130                       | 1172              | 0.559 | 653                 | 694                             | 0.9               | 1.3             | 7.157     | A                             |
| 2   | 414                   | 104                     | 409                       | 1038              | 0.399 | 414                 | 374                             | 0.5               | 0.7             | 5.848     | A                             |
| 3   | 539                   | 135                     | 292                       | 1200              | 0.449 | 538                 | 531                             | 0.6               | 0.9             | 5.743     | A                             |
| 4   | 10                    | 2                       | 814                       | 380               | 0.026 | 10                  | 16                              | 0.0               | 0.0             | 9.726     | A                             |

#### 17:15 - 17:30

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 802                   | 200                     | 159                       | 1157              | 0.693 | 798                 | 848                             | 1.3               | 2.3             | 10.249    | B                             |
| 2   | 508                   | 127                     | 500                       | 984               | 0.516 | 506                 | 457                             | 0.7               | 1.1             | 7.623     | A                             |
| 3   | 661                   | 165                     | 357                       | 1159              | 0.570 | 659                 | 649                             | 0.9               | 1.4             | 7.565     | A                             |
| 4   | 12                    | 3                       | 995                       | 273               | 0.044 | 12                  | 20                              | 0.0               | 0.0             | 13.780    | B                             |

#### 17:30 - 17:45

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 802                   | 200                     | 160                       | 1157              | 0.693 | 801                 | 851                             | 2.3               | 2.3             | 10.463    | B                             |
| 2   | 508                   | 127                     | 502                       | 983               | 0.517 | 508                 | 459                             | 1.1               | 1.1             | 7.695     | A                             |
| 3   | 661                   | 165                     | 358                       | 1159              | 0.570 | 661                 | 652                             | 1.4               | 1.4             | 7.635     | A                             |
| 4   | 12                    | 3                       | 999                       | 271               | 0.045 | 12                  | 20                              | 0.0               | 0.0             | 13.883    | B                             |

**17:45 - 18:00**

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 654                   | 164                     | 131                       | 1171              | 0.559 | 658                 | 698                             | 2.3               | 1.3             | 7.317     | A                             |
| 2   | 414                   | 104                     | 412                       | 1036              | 0.400 | 416                 | 377                             | 1.1               | 0.7             | 5.911     | A                             |
| 3   | 539                   | 135                     | 293                       | 1199              | 0.450 | 541                 | 535                             | 1.4               | 0.9             | 5.803     | A                             |
| 4   | 10                    | 2                       | 818                       | 377               | 0.026 | 10                  | 16                              | 0.0               | 0.0             | 9.802     | A                             |

**18:00 - 18:15**

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 548                   | 137                     | 109                       | 1182              | 0.464 | 550                 | 583                             | 1.3               | 0.9             | 5.911     | A                             |
| 2   | 347                   | 87                      | 344                       | 1077              | 0.322 | 348                 | 315                             | 0.7               | 0.5             | 5.022     | A                             |
| 3   | 452                   | 113                     | 245                       | 1229              | 0.368 | 453                 | 447                             | 0.9               | 0.6             | 4.907     | A                             |
| 4   | 8                     | 2                       | 684                       | 456               | 0.018 | 8                   | 14                              | 0.0               | 0.0             | 8.039     | A                             |

# 2030 | Base + CD + Dev | PM

## Data Errors and Warnings

| Severity | Area            | Item | Description                                                                                                                                                                                                                                 |
|----------|-----------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Mini-roundabout |      | Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 74% of the total flow for the roundabout for one or more time segments] |

## Junction Network

### Junctions

| Junction | Name     | Junction type   | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|-----------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Mini-roundabout |                       | 1, 2, 3, 4 | 11.08              | B            |

### Junction Network

| Driving side | Lighting       | Road surface   | In London | Network residual capacity (%) | First arm reaching threshold | Network delay (s) | Network LOS |
|--------------|----------------|----------------|-----------|-------------------------------|------------------------------|-------------------|-------------|
| Left         | Normal/unknown | Normal/unknown |           | 15                            | Arm 4                        | 11.08             | B           |

## 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 | 2030 | Base + CD + Dev | 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 (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| 1   |            | ONE HOUR     | ✓            | 806                     | 100.000            |
| 2   |            | ONE HOUR     | ✓            | 490                     | 100.000            |
| 3   |            | ONE HOUR     | ✓            | 664                     | 100.000            |
| 4   |            | ONE HOUR     | ✓            | 11                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |     |    |
|------|----|-----|-----|-----|----|
|      | 1  | 2   | 3   | 4   |    |
| From | 1  | 299 | 505 | 1   |    |
|      | 2  | 345 | 0   | 138 | 7  |
|      | 3  | 519 | 135 | 0   | 10 |
|      | 4  | 1   | 10  | 0   | 0  |

## Vehicle Mix

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

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
|      | 1  | 0 | 1 | 5 | 0 |
|      | 2  | 1 | 0 | 3 | 0 |
|      | 3  | 7 | 2 | 0 | 0 |
| From | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| 1   | 0.77    | 13.75         | 3.3             | B       | 740                     | 1109                          |
| 2   | 0.57    | 8.92          | 1.3             | A       | 450                     | 674                           |
| 3   | 0.64    | 9.33          | 1.9             | A       | 609                     | 914                           |
| 4   | 0.06    | 18.08         | 0.1             | C       | 10                      | 15                            |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 607                   | 152                     | 108                       | 1182              | 0.513 | 602                 | 648                             | 0.0               | 1.1             | 6.379     | A                             |
| 2   | 369                   | 92                      | 379                       | 1056              | 0.349 | 367                 | 332                             | 0.0               | 0.5             | 5.288     | A                             |
| 3   | 500                   | 125                     | 265                       | 1217              | 0.411 | 497                 | 481                             | 0.0               | 0.7             | 5.272     | A                             |
| 4   | 8                     | 2                       | 748                       | 418               | 0.020 | 8                   | 13                              | 0.0               | 0.0             | 8.775     | A                             |

#### 17:00 - 17:15

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 725                   | 181                     | 130                       | 1172              | 0.618 | 722                 | 777                             | 1.1               | 1.6             | 8.248     | A                             |
| 2   | 440                   | 110                     | 454                       | 1011              | 0.436 | 440                 | 398                             | 0.5               | 0.8             | 6.386     | A                             |
| 3   | 597                   | 149                     | 318                       | 1184              | 0.504 | 596                 | 576                             | 0.7               | 1.1             | 6.461     | A                             |
| 4   | 10                    | 2                       | 897                       | 331               | 0.030 | 10                  | 16                              | 0.0               | 0.0             | 11.205    | B                             |

#### 17:15 - 17:30

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 887                   | 222                     | 159                       | 1157              | 0.767 | 881                 | 950                             | 1.6               | 3.2             | 13.190    | B                             |
| 2   | 540                   | 135                     | 554                       | 951               | 0.567 | 537                 | 486                             | 0.8               | 1.3             | 8.783     | A                             |
| 3   | 731                   | 183                     | 388                       | 1140              | 0.641 | 728                 | 703                             | 1.1               | 1.8             | 9.182     | A                             |
| 4   | 12                    | 3                       | 1096                      | 214               | 0.057 | 12                  | 20                              | 0.0               | 0.1             | 17.828    | C                             |

#### 17:30 - 17:45

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 887                   | 222                     | 160                       | 1157              | 0.767 | 887                 | 953                             | 3.2               | 3.3             | 13.750    | B                             |
| 2   | 540                   | 135                     | 558                       | 949               | 0.568 | 539                 | 489                             | 1.3               | 1.3             | 8.916     | A                             |
| 3   | 731                   | 183                     | 390                       | 1139              | 0.642 | 731                 | 708                             | 1.8               | 1.9             | 9.335     | A                             |
| 4   | 12                    | 3                       | 1101                      | 211               | 0.057 | 12                  | 20                              | 0.1               | 0.1             | 18.080    | C                             |

**17:45 - 18:00**

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 725                   | 181                     | 131                       | 1171              | 0.619 | 731                 | 782                             | 3.3               | 1.7             | 8.580     | A                             |
| 2   | 440                   | 110                     | 460                       | 1008              | 0.437 | 443                 | 402                             | 1.3               | 0.8             | 6.493     | A                             |
| 3   | 597                   | 149                     | 320                       | 1183              | 0.505 | 600                 | 583                             | 1.9               | 1.1             | 6.574     | A                             |
| 4   | 10                    | 2                       | 904                       | 327               | 0.030 | 10                  | 16                              | 0.1               | 0.0             | 11.350    | B                             |

**18:00 - 18:15**

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 607                   | 152                     | 109                       | 1182              | 0.514 | 609                 | 654                             | 1.7               | 1.1             | 6.536     | A                             |
| 2   | 369                   | 92                      | 383                       | 1053              | 0.350 | 370                 | 335                             | 0.8               | 0.6             | 5.357     | A                             |
| 3   | 500                   | 125                     | 267                       | 1215              | 0.411 | 501                 | 486                             | 1.1               | 0.7             | 5.347     | A                             |
| 4   | 8                     | 2                       | 755                       | 415               | 0.020 | 8                   | 14                              | 0.0               | 0.0             | 8.862     | A                             |

| Junctions 11                                                                                                                                                     |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| ARCADY 11 - Roundabout Module                                                                                                                                    |  |  |  |  |  |  |
| Version: 11.0.0.2177                                                                                                                                             |  |  |  |  |  |  |
| © Copyright TRL Software Limited, 2024                                                                                                                           |  |  |  |  |  |  |
| For sales and distribution information, program advice and maintenance, contact TRL Software:                                                                    |  |  |  |  |  |  |
| +44 (0)1344 379777 software@trl.co.uk trlsoftware.com                                                                                                            |  |  |  |  |  |  |
| The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution |  |  |  |  |  |  |

Filename: Import of Turnpike Lane - Copy.j11

Path: C:\Users\holly.benwell.DHA\OneDrive - DHA Planning & Development Consultants\Documents

Report generation date: 09/01/2026 13:53:46

»2025 | | AM

»2030 | Base + CD | AM

»2030 | Base + CD + Dev | AM

### Summary of junction performance

|       | AM                     |             |           |      |     |                           |
|-------|------------------------|-------------|-----------|------|-----|---------------------------|
|       | Set ID                 | Queue (PCU) | Delay (s) | RFC  | LOS | Network Residual Capacity |
|       | 2025                   |             |           |      |     |                           |
| Arm 1 | D1                     | 2.8         | 10.69     | 0.73 | B   | 24 %<br><br>[Arm 1]       |
| Arm 2 |                        | 1.0         | 13.44     | 0.51 | B   |                           |
| Arm 3 |                        | 1.8         | 13.72     | 0.64 | B   |                           |
| Arm 4 |                        | 0.1         | 7.46      | 0.05 | A   |                           |
|       | 2030 - Base + CD       |             |           |      |     |                           |
| Arm 1 | D3                     | 3.8         | 13.69     | 0.79 | B   | 16 %<br><br>[Arm 1]       |
| Arm 2 |                        | 1.3         | 15.88     | 0.56 | C   |                           |
| Arm 3 |                        | 2.3         | 15.97     | 0.69 | C   |                           |
| Arm 4 |                        | 0.1         | 7.87      | 0.05 | A   |                           |
|       | 2030 - Base + CD + Dev |             |           |      |     |                           |
| Arm 1 | D5                     | 6.5         | 21.74     | 0.87 | C   | 6 %<br><br>[Arm 1]        |
| Arm 2 |                        | 2.0         | 22.55     | 0.67 | C   |                           |
| Arm 3 |                        | 3.3         | 21.72     | 0.77 | C   |                           |
| Arm 4 |                        | 0.1         | 8.66      | 0.06 | A   |                           |

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

## File summary

### File Description

|             |                   |
|-------------|-------------------|
| Title       |                   |
| Location    |                   |
| Site number |                   |
| Date        | 05/01/2026        |
| Version     |                   |
| Status      | (new file)        |
| Identifier  |                   |
| Client      |                   |
| Jobnumber   |                   |
| Enumerator  | DHA\holly.benwell |
| 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              |

## Analysis Options

| Mini-roundabout 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 | Residual capacity criteria type | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) | Use simulation for HCM roundabouts | Use iterations for HCM roundabouts |
|-----------------------|--------------------|-----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------|---------------------------------|---------------|-----------------------------|-----------------------|------------------------------------|------------------------------------|
| JUNCTIONS 9           | 5.75               |                             |                                   |                                   |                                   | ✓                           | Delay                           | 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 | 2025 |                 | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D3 | 2030 | Base + CD       | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D5 | 2030 | Base + CD + Dev | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |

## Analysis Set Details

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

# 2025 | | AM

## Data Errors and Warnings

| Severity | Area            | Item | Description                                                                                                                                                                                                                                                                                                                           |
|----------|-----------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Mini-roundabout |      | Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 2 have 70% of the total flow for the roundabout for one or more time segments][Arms 1 and 3 have 82% of the total flow for the roundabout for one or more time segments] |

## Junction Network

### Junctions

| Junction | Name     | Junction type   | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|-----------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Mini-roundabout |                       | 1, 2, 3, 4 | 11.94              | B            |

### Junction Network

| Driving side | Lighting       | Road surface   | In London | Network residual capacity (%) | First arm reaching threshold | Network delay (s) | Network LOS |
|--------------|----------------|----------------|-----------|-------------------------------|------------------------------|-------------------|-------------|
| Left         | Normal/unknown | Normal/unknown |           | 24                            | Arm 1                        | 11.94             | B           |

## Arms

### Arms

| Arm | Name             | Description |
|-----|------------------|-------------|
| 1   | Bedford Road (N) |             |
| 2   | Turnpike Lane    |             |
| 3   | Bedford Road (S) |             |
| 4   | Westmill Lane    |             |

### Mini Roundabout Geometry

| Arm | Approach road half-width (m) | Minimum approach road half-width (m) | Entry width (m) | Effective flare length (m) | Distance to next arm (m) | Entry corner kerb line distance (m) | Gradient over 50m (%) | Kerbed central island |
|-----|------------------------------|--------------------------------------|-----------------|----------------------------|--------------------------|-------------------------------------|-----------------------|-----------------------|
| 1   | 3.00                         | 3.00                                 | 4.90            | 1.5                        | 11.00                    | 8.20                                | 0.0                   | ✓                     |
| 2   | 3.00                         | 3.00                                 | 3.60            | 0.6                        | 11.30                    | 8.30                                | 0.0                   |                       |
| 3   | 3.20                         | 3.20                                 | 4.60            | 4.6                        | 11.50                    | 8.30                                | 0.0                   |                       |
| 4   | 2.60                         | 2.60                                 | 3.00            | 4.6                        | 13.60                    | 9.20                                | 0.0                   |                       |

### Slope / Intercept / Capacity

#### Arm Intercept Adjustments

| Arm | Type       | Reason | Percentage intercept adjustment (%) |
|-----|------------|--------|-------------------------------------|
| 1   | Percentage |        | 153.00                              |
| 2   | None       |        |                                     |
| 3   | Percentage |        | 89.00                               |
| 4   | None       |        |                                     |

#### Roundabout Slope and Intercept used in model

| Arm | Final slope | Final intercept (PCU/hr) |
|-----|-------------|--------------------------|
| 1   | 0.494       | 1401                     |
| 2   | 0.596       | 866                      |
| 3   | 0.625       | 849                      |
| 4   | 0.588       | 859                      |

The slope and intercept shown above include any corrections and adjustments.

## Traffic Demand

### Demand Set Details

| ID | Year | Time period | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------|-------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2025 | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |

### Demand overview (Traffic)

| Arm | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| 1   |            | ONE HOUR     | ✓            | 870                     | 100.000            |
| 2   |            | ONE HOUR     | ✓            | 259                     | 100.000            |
| 3   |            | ONE HOUR     | ✓            | 449                     | 100.000            |
| 4   |            | ONE HOUR     | ✓            | 23                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |     |    |
|------|----|-----|-----|-----|----|
|      |    | 1   | 2   | 3   | 4  |
| From | 1  | 0   | 407 | 460 | 3  |
|      | 2  | 102 | 1   | 147 | 9  |
|      | 3  | 283 | 156 | 0   | 10 |
|      | 4  | 3   | 14  | 6   | 0  |

## Vehicle Mix

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

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
| From | 1  | 0 | 1 | 5 | 0 |
|      | 2  | 1 | 0 | 3 | 0 |
|      | 3  | 7 | 2 | 0 | 0 |
|      | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| 1   | 0.73    | 10.69         | 2.8             | B       | 798                     | 1197                          |
| 2   | 0.51    | 13.44         | 1.0             | B       | 238                     | 356                           |
| 3   | 0.64    | 13.72         | 1.8             | B       | 412                     | 618                           |
| 4   | 0.05    | 7.46          | 0.1             | A       | 21                      | 32                            |

## Main Results for each time segment

### 07:45 - 08:00

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 655                   | 164                     | 132                       | 1335              | 0.491 | 651                 | 289                             | 0.0               | 1.0             | 5.393     | A                             |
| 2   | 195                   | 49                      | 351                       | 657               | 0.297 | 193                 | 432                             | 0.0               | 0.4             | 7.898     | A                             |
| 3   | 338                   | 85                      | 86                        | 795               | 0.425 | 335                 | 458                             | 0.0               | 0.8             | 8.170     | A                             |
| 4   | 17                    | 4                       | 404                       | 621               | 0.028 | 17                  | 16                              | 0.0               | 0.0             | 5.964     | A                             |

### 08:00 - 08:15

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 782                   | 196                     | 159                       | 1322              | 0.592 | 780                 | 348                             | 1.0               | 1.5             | 6.821     | A                             |
| 2   | 233                   | 58                      | 421                       | 615               | 0.378 | 232                 | 518                             | 0.4               | 0.6             | 9.568     | A                             |
| 3   | 404                   | 101                     | 103                       | 784               | 0.515 | 402                 | 550                             | 0.8               | 1.1             | 9.870     | A                             |
| 4   | 21                    | 5                       | 486                       | 573               | 0.036 | 21                  | 20                              | 0.0               | 0.0             | 6.517     | A                             |

### 08:15 - 08:30

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 958                   | 239                     | 194                       | 1305              | 0.734 | 953                 | 425                             | 1.5               | 2.7             | 10.392    | B                             |
| 2   | 285                   | 71                      | 514                       | 560               | 0.509 | 283                 | 633                             | 0.6               | 1.0             | 13.215    | B                             |
| 3   | 494                   | 124                     | 126                       | 770               | 0.642 | 491                 | 671                             | 1.1               | 1.8             | 13.441    | B                             |
| 4   | 25                    | 6                       | 593                       | 510               | 0.050 | 25                  | 24                              | 0.0               | 0.1             | 7.431     | A                             |

### 08:30 - 08:45

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 958                   | 239                     | 195                       | 1304              | 0.734 | 958                 | 427                             | 2.7               | 2.8             | 10.685    | B                             |
| 2   | 285                   | 71                      | 516                       | 558               | 0.511 | 285                 | 636                             | 1.0               | 1.0             | 13.439    | B                             |
| 3   | 494                   | 124                     | 127                       | 769               | 0.643 | 494                 | 675                             | 1.8               | 1.8             | 13.720    | B                             |
| 4   | 25                    | 6                       | 597                       | 508               | 0.050 | 25                  | 24                              | 0.1               | 0.1             | 7.461     | A                             |

### 08:45 - 09:00

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 782                   | 196                     | 160                       | 1321              | 0.592 | 787                 | 351                             | 2.8               | 1.5             | 7.008     | A                             |
| 2   | 233                   | 58                      | 424                       | 613               | 0.380 | 234                 | 523                             | 1.0               | 0.6             | 9.748     | A                             |
| 3   | 404                   | 101                     | 104                       | 783               | 0.515 | 406                 | 555                             | 1.8               | 1.1             | 10.104    | B                             |
| 4   | 21                    | 5                       | 491                       | 570               | 0.036 | 21                  | 20                              | 0.1               | 0.0             | 6.556     | A                             |

### 09:00 - 09:15

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 655                   | 164                     | 134                       | 1334              | 0.491 | 657                 | 293                             | 1.5               | 1.0             | 5.495     | A                             |
| 2   | 195                   | 49                      | 354                       | 655               | 0.298 | 196                 | 437                             | 0.6               | 0.4             | 8.018     | A                             |
| 3   | 338                   | 85                      | 87                        | 794               | 0.426 | 339                 | 463                             | 1.1               | 0.8             | 8.342     | A                             |
| 4   | 17                    | 4                       | 410                       | 618               | 0.028 | 17                  | 17                              | 0.0               | 0.0             | 5.999     | A                             |

# 2030 | Base + CD | AM

## Data Errors and Warnings

| Severity | Area            | Item | Description                                                                                                                                                                                                                                                                                                                           |
|----------|-----------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Mini-roundabout |      | Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 2 have 70% of the total flow for the roundabout for one or more time segments][Arms 1 and 3 have 82% of the total flow for the roundabout for one or more time segments] |

## Junction Network

### Junctions

| Junction | Name     | Junction type   | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|-----------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Mini-roundabout |                       | 1, 2, 3, 4 | 14.60              | B            |

### Junction Network

| Driving side | Lighting       | Road surface   | In London | Network residual capacity (%) | First arm reaching threshold | Network delay (s) | Network LOS |
|--------------|----------------|----------------|-----------|-------------------------------|------------------------------|-------------------|-------------|
| Left         | Normal/unknown | Normal/unknown |           | 16                            | Arm 1                        | 14.60             | B           |

## 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 |
|----|------|-----------|-------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D3 | 2030 | Base + CD | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |

### Demand overview (Traffic)

| Arm | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| 1   |            | ONE HOUR     | ✓            | 937                     | 100.000            |
| 2   |            | ONE HOUR     | ✓            | 270                     | 100.000            |
| 3   |            | ONE HOUR     | ✓            | 482                     | 100.000            |
| 4   |            | ONE HOUR     | ✓            | 23                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |     |    |
|------|----|-----|-----|-----|----|
|      | 1  | 2   | 3   | 4   |    |
| From | 1  | 0   | 428 | 509 | 0  |
|      | 2  | 109 | 1   | 151 | 9  |
|      | 3  | 309 | 162 | 0   | 11 |
|      | 4  | 3   | 14  | 6   | 0  |

## Vehicle Mix

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

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
|      | 1  | 0 | 1 | 5 | 0 |
|      | 2  | 1 | 0 | 3 | 0 |
|      | 3  | 7 | 2 | 0 | 0 |
| From | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| 1   | 0.79    | 13.69         | 3.8             | B       | 860                     | 1290                          |
| 2   | 0.56    | 15.88         | 1.3             | C       | 248                     | 372                           |
| 3   | 0.69    | 15.97         | 2.3             | C       | 442                     | 663                           |
| 4   | 0.05    | 7.87          | 0.1             | A       | 21                      | 32                            |

### Main Results for each time segment

#### 07:45 - 08:00

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 705                   | 176                     | 136                       | 1333              | 0.529 | 701                 | 314                             | 0.0               | 1.1             | 5.831     | A                             |
| 2   | 203                   | 51                      | 385                       | 636               | 0.319 | 201                 | 452                             | 0.0               | 0.5             | 8.410     | A                             |
| 3   | 363                   | 91                      | 89                        | 793               | 0.458 | 359                 | 498                             | 0.0               | 0.9             | 8.657     | A                             |
| 4   | 17                    | 4                       | 433                       | 604               | 0.029 | 17                  | 15                              | 0.0               | 0.0             | 6.134     | A                             |

#### 08:00 - 08:15

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 842                   | 211                     | 164                       | 1320              | 0.638 | 840                 | 377                             | 1.1               | 1.8             | 7.697     | A                             |
| 2   | 243                   | 61                      | 462                       | 591               | 0.411 | 242                 | 542                             | 0.5               | 0.7             | 10.498    | B                             |
| 3   | 433                   | 108                     | 107                       | 782               | 0.554 | 432                 | 597                             | 0.9               | 1.3             | 10.750    | B                             |
| 4   | 21                    | 5                       | 520                       | 553               | 0.037 | 21                  | 18                              | 0.0               | 0.0             | 6.767     | A                             |

#### 08:15 - 08:30

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 1032                  | 258                     | 200                       | 1302              | 0.793 | 1024                | 460                             | 1.8               | 3.7             | 13.018    | B                             |
| 2   | 297                   | 74                      | 563                       | 531               | 0.560 | 295                 | 661                             | 0.7               | 1.3             | 15.456    | C                             |
| 3   | 531                   | 133                     | 130                       | 767               | 0.692 | 527                 | 728                             | 1.3               | 2.2             | 15.484    | C                             |
| 4   | 25                    | 6                       | 635                       | 485               | 0.052 | 25                  | 22                              | 0.0               | 0.1             | 7.827     | A                             |

#### 08:30 - 08:45

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 1032                  | 258                     | 201                       | 1301              | 0.793 | 1031                | 463                             | 3.7               | 3.8             | 13.689    | B                             |
| 2   | 297                   | 74                      | 567                       | 528               | 0.563 | 297                 | 666                             | 1.3               | 1.3             | 15.881    | C                             |
| 3   | 531                   | 133                     | 131                       | 767               | 0.692 | 530                 | 733                             | 2.2               | 2.3             | 15.973    | C                             |
| 4   | 25                    | 6                       | 639                       | 483               | 0.052 | 25                  | 22                              | 0.1               | 0.1             | 7.872     | A                             |

**08:45 - 09:00**

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 842                   | 211                     | 166                       | 1319              | 0.639 | 850                 | 382                             | 3.8               | 1.9             | 8.053     | A                             |
| 2   | 243                   | 61                      | 467                       | 588               | 0.413 | 245                 | 549                             | 1.3               | 0.7             | 10.793    | B                             |
| 3   | 433                   | 108                     | 108                       | 781               | 0.555 | 437                 | 604                             | 2.3               | 1.3             | 11.118    | B                             |
| 4   | 21                    | 5                       | 527                       | 549               | 0.038 | 21                  | 18                              | 0.1               | 0.0             | 6.818     | A                             |

**09:00 - 09:15**

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 705                   | 176                     | 138                       | 1332              | 0.530 | 708                 | 318                             | 1.9               | 1.2             | 5.977     | A                             |
| 2   | 203                   | 51                      | 389                       | 634               | 0.321 | 204                 | 457                             | 0.7               | 0.5             | 8.567     | A                             |
| 3   | 363                   | 91                      | 90                        | 792               | 0.458 | 365                 | 503                             | 1.3               | 0.9             | 8.885     | A                             |
| 4   | 17                    | 4                       | 440                       | 600               | 0.029 | 17                  | 15                              | 0.0               | 0.0             | 6.177     | A                             |

# 2030 | Base + CD + Dev | AM

## Data Errors and Warnings

| Severity | Area            | Item | Description                                                                                                                                                                                                                                                                                                                           |
|----------|-----------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Mini-roundabout |      | Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 2 have 70% of the total flow for the roundabout for one or more time segments][Arms 1 and 3 have 83% of the total flow for the roundabout for one or more time segments] |

## Junction Network

### Junctions

| Junction | Name     | Junction type   | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|-----------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Mini-roundabout |                       | 1, 2, 3, 4 | 21.70              | C            |

### Junction Network

| Driving side | Lighting       | Road surface   | In London | Network residual capacity (%) | First arm reaching threshold | Network delay (s) | Network LOS |
|--------------|----------------|----------------|-----------|-------------------------------|------------------------------|-------------------|-------------|
| Left         | Normal/unknown | Normal/unknown |           | 6                             | Arm 1                        | 21.70             | C           |

## 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 | 2030 | Base + CD + Dev | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |

### Demand overview (Traffic)

| Arm | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| 1   |            | ONE HOUR     | ✓            | 1032                    | 100.000            |
| 2   |            | ONE HOUR     | ✓            | 294                     | 100.000            |
| 3   |            | ONE HOUR     | ✓            | 523                     | 100.000            |
| 4   |            | ONE HOUR     | ✓            | 23                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |     |    |
|------|----|-----|-----|-----|----|
|      | 1  | 2   | 3   | 4   |    |
| From | 1  | 0   | 457 | 572 | 3  |
|      | 2  | 133 | 1   | 151 | 9  |
|      | 3  | 350 | 162 | 0   | 11 |
|      | 4  | 3   | 14  | 6   | 0  |

## Vehicle Mix

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

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
|      | 1  | 0 | 1 | 5 | 0 |
|      | 2  | 1 | 0 | 3 | 0 |
|      | 3  | 7 | 2 | 0 | 0 |
| From | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| 1   | 0.87    | 21.74         | 6.5             | C       | 947                     | 1420                          |
| 2   | 0.67    | 22.55         | 2.0             | C       | 270                     | 405                           |
| 3   | 0.77    | 21.72         | 3.3             | C       | 480                     | 720                           |
| 4   | 0.06    | 8.66          | 0.1             | A       | 21                      | 32                            |

### Main Results for each time segment

#### 07:45 - 08:00

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 777                   | 194                     | 136                       | 1333              | 0.583 | 771                 | 362                             | 0.0               | 1.4             | 6.546     | A                             |
| 2   | 221                   | 55                      | 434                       | 607               | 0.364 | 219                 | 473                             | 0.0               | 0.6             | 9.403     | A                             |
| 3   | 394                   | 98                      | 109                       | 781               | 0.504 | 390                 | 544                             | 0.0               | 1.0             | 9.591     | A                             |
| 4   | 17                    | 4                       | 481                       | 576               | 0.030 | 17                  | 17                              | 0.0               | 0.0             | 6.444     | A                             |

#### 08:00 - 08:15

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 928                   | 232                     | 164                       | 1320              | 0.703 | 924                 | 435                             | 1.4               | 2.4             | 9.295     | A                             |
| 2   | 264                   | 66                      | 520                       | 556               | 0.475 | 263                 | 568                             | 0.6               | 0.9             | 12.472    | B                             |
| 3   | 470                   | 118                     | 131                       | 767               | 0.613 | 468                 | 653                             | 1.0               | 1.6             | 12.573    | B                             |
| 4   | 21                    | 5                       | 578                       | 519               | 0.040 | 21                  | 21                              | 0.0               | 0.0             | 7.227     | A                             |

#### 08:15 - 08:30

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 1136                  | 284                     | 199                       | 1302              | 0.873 | 1121                | 529                             | 2.4               | 6.1             | 19.146    | C                             |
| 2   | 324                   | 81                      | 631                       | 490               | 0.661 | 320                 | 689                             | 0.9               | 1.9             | 21.148    | C                             |
| 3   | 576                   | 144                     | 159                       | 749               | 0.769 | 569                 | 792                             | 1.6               | 3.2             | 20.368    | C                             |
| 4   | 25                    | 6                       | 703                       | 445               | 0.057 | 25                  | 25                              | 0.0               | 0.1             | 8.575     | A                             |

#### 08:30 - 08:45

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 1136                  | 284                     | 201                       | 1301              | 0.873 | 1134                | 535                             | 6.1               | 6.5             | 21.738    | C                             |
| 2   | 324                   | 81                      | 639                       | 485               | 0.667 | 323                 | 697                             | 1.9               | 2.0             | 22.545    | C                             |
| 3   | 576                   | 144                     | 161                       | 748               | 0.770 | 575                 | 801                             | 3.2               | 3.3             | 21.718    | C                             |
| 4   | 25                    | 6                       | 711                       | 441               | 0.057 | 25                  | 25                              | 0.1               | 0.1             | 8.665     | A                             |

**08:45 - 09:00**

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 928                   | 232                     | 167                       | 1318              | 0.704 | 944                 | 443                             | 6.5               | 2.5             | 10.309    | B                             |
| 2   | 264                   | 66                      | 531                       | 549               | 0.481 | 268                 | 579                             | 2.0               | 1.0             | 13.234    | B                             |
| 3   | 470                   | 118                     | 133                       | 765               | 0.614 | 477                 | 666                             | 3.3               | 1.7             | 13.400    | B                             |
| 4   | 21                    | 5                       | 589                       | 512               | 0.040 | 21                  | 21                              | 0.1               | 0.0             | 7.323     | A                             |

**09:00 - 09:15**

| Arm | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| 1   | 777                   | 194                     | 139                       | 1332              | 0.583 | 781                 | 368                             | 2.5               | 1.5             | 6.795     | A                             |
| 2   | 221                   | 55                      | 440                       | 604               | 0.367 | 223                 | 480                             | 1.0               | 0.6             | 9.670     | A                             |
| 3   | 394                   | 98                      | 111                       | 779               | 0.505 | 396                 | 552                             | 1.7               | 1.1             | 9.954     | A                             |
| 4   | 17                    | 4                       | 490                       | 571               | 0.030 | 17                  | 17                              | 0.0               | 0.0             | 6.507     | A                             |

| Junctions 11                                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|
| ARCADY 11 - Roundabout Module                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |
| Version: 11.0.0.2177                                                                                                                                             |  |  |  |  |  |  |  |  |  |  |
| © Copyright TRL Software Limited, 2024                                                                                                                           |  |  |  |  |  |  |  |  |  |  |
| For sales and distribution information, program advice and maintenance, contact TRL Software:                                                                    |  |  |  |  |  |  |  |  |  |  |
| +44 (0)1344 379777    software@trl.co.uk    trlsoftware.com                                                                                                      |  |  |  |  |  |  |  |  |  |  |
| The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution |  |  |  |  |  |  |  |  |  |  |

Filename: (new file)

Path:

Report generation date: 30/01/2026 11:06:07

- »2025 | Base | AM
- »2025 | Base | PM
- »2030 | Base + CD | AM
- »2030 | Base + CD | PM
- »2030 | Base + CD + Dev | AM
- »2030 | Base + CD + Dev | PM

### Summary of junction performance

|       | AM                     |             |           |      |     | PM     |             |           |      |     |
|-------|------------------------|-------------|-----------|------|-----|--------|-------------|-----------|------|-----|
|       | Set ID                 | Queue (PCU) | Delay (s) | RFC  | LOS | Set ID | Queue (PCU) | Delay (s) | RFC  | LOS |
|       | 2025 - Base            |             |           |      |     |        |             |           |      |     |
| Arm 1 | D1                     | 0.4         | 4.22      | 0.29 | A   | D2     | 0.6         | 4.85      | 0.38 | A   |
| Arm 2 |                        | 0.7         | 3.95      | 0.41 | A   |        | 1.2         | 5.38      | 0.56 | A   |
| Arm 3 |                        | 0.5         | 4.70      | 0.33 | A   |        | 0.4         | 4.58      | 0.28 | A   |
| Arm 4 |                        | 0.7         | 4.95      | 0.42 | A   |        | 0.6         | 4.30      | 0.37 | A   |
|       | 2030 - Base + CD       |             |           |      |     |        |             |           |      |     |
| Arm 1 | D3                     | 0.4         | 4.36      | 0.31 | A   | D4     | 0.7         | 5.04      | 0.40 | A   |
| Arm 2 |                        | 0.8         | 4.10      | 0.43 | A   |        | 1.4         | 5.68      | 0.58 | A   |
| Arm 3 |                        | 0.5         | 4.89      | 0.34 | A   |        | 0.4         | 4.74      | 0.29 | A   |
| Arm 4 |                        | 0.8         | 5.22      | 0.45 | A   |        | 0.6         | 4.47      | 0.39 | A   |
|       | 2030 - Base + CD + Dev |             |           |      |     |        |             |           |      |     |
| Arm 1 | D5                     | 0.4         | 4.38      | 0.31 | A   | D6     | 0.7         | 5.08      | 0.40 | A   |
| Arm 2 |                        | 0.8         | 4.14      | 0.44 | A   |        | 1.4         | 5.76      | 0.58 | A   |
| Arm 3 |                        | 0.5         | 4.93      | 0.35 | A   |        | 0.4         | 4.77      | 0.30 | A   |
| Arm 4 |                        | 0.8         | 5.26      | 0.45 | A   |        | 0.6         | 4.51      | 0.39 | A   |

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

## File summary

### File Description

|             |                   |
|-------------|-------------------|
| Title       |                   |
| Location    |                   |
| Site number |                   |
| Date        | 30/01/2026        |
| Version     |                   |
| Status      | (new file)        |
| Identifier  |                   |
| Client      |                   |
| Jobnumber   |                   |
| Enumerator  | DHA\holly.benwell |
| 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              |

## Analysis Options

| Calculate Queue Percentiles | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) |
|-----------------------------|-----------------------------|---------------|-----------------------------|-----------------------|
|                             |                             | 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) |
|----|------|-----------------|-------------|----------------------|--------------------|---------------------|---------------------------|
| D1 | 2025 | Base            | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        |
| D2 | 2025 | Base            | PM          | ONE HOUR             | 16:45              | 18:15               | 15                        |
| D3 | 2030 | Base + CD       | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        |
| D4 | 2030 | Base + CD       | PM          | ONE HOUR             | 16:45              | 18:15               | 15                        |
| D5 | 2030 | Base + CD + Dev | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        |
| D6 | 2030 | Base + CD + Dev | PM          | ONE HOUR             | 16:45              | 18:15               | 15                        |

## Analysis Set Details

| ID | Network flow scaling factor (%) |
|----|---------------------------------|
| A1 | 100.000                         |

# 2025 | Base | AM

## Data Errors and Warnings

| Severity | Area        | Item | Description                                                                                                                                                                                  |
|----------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Vehicle Mix |      | HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning. |

## Junction Network

### Junctions

| Junction | Name     | Junction type       | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|---------------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Standard Roundabout |                       | 1, 2, 3, 4 | 4.43               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 4.43              | A           |

## Arms

### Arms

| Arm | Name         | Description | No give-way line |
|-----|--------------|-------------|------------------|
| 1   | Hitchin Road |             |                  |
| 2   | Bedford Road |             |                  |
| 3   | Station Road |             |                  |
| 4   | Bedford Road |             |                  |

### Roundabout Geometry

| Arm | V - Approach road half-width (m) | E - Entry width (m) | I' - Effective flare length (m) | R - Entry radius (m) | D - Inscribed circle diameter (m) | PHI - Conflict (entry) angle (deg) | Entry only | Exit only |
|-----|----------------------------------|---------------------|---------------------------------|----------------------|-----------------------------------|------------------------------------|------------|-----------|
| 1   | 3.94                             | 5.86                | 8.5                             | 14.6                 | 39.3                              | 23.0                               |            |           |
| 2   | 3.93                             | 5.93                | 16.5                            | 18.2                 | 39.3                              | 22.0                               |            |           |
| 3   | 3.37                             | 6.07                | 12.1                            | 17.5                 | 39.3                              | 28.5                               |            |           |
| 4   | 3.65                             | 6.60                | 8.4                             | 32.0                 | 39.3                              | 15.5                               |            |           |

### Slope / Intercept / Capacity

#### Roundabout Slope and Intercept used in model

| Arm | Final slope | Final intercept (PCU/hr) |
|-----|-------------|--------------------------|
| 1   | 0.614       | 1541                     |
| 2   | 0.643       | 1665                     |
| 3   | 0.602       | 1496                     |
| 4   | 0.650       | 1631                     |

The slope and intercept shown above include any corrections and adjustments.

## 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) |
|----|------|----------|-------------|----------------------|--------------------|---------------------|---------------------------|
| D1 | 2025 | Base     | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        |

## Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| 1   |            | ✓            | 324                     | 100.000            |
| 2   |            | ✓            | 574                     | 100.000            |
| 3   |            | ✓            | 338                     | 100.000            |
| 4   |            | ✓            | 484                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |    |     |
|------|----|-----|-----|----|-----|
|      |    | 1   | 2   | 3  | 4   |
| From | 1  | 2   | 185 | 82 | 55  |
|      | 2  | 219 | 1   | 92 | 262 |
|      | 3  | 174 | 121 | 0  | 43  |
|      | 4  | 116 | 337 | 31 | 0   |

## Vehicle Mix

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
| From | 1  | 0 | 0 | 0 | 0 |
|      | 2  | 0 | 0 | 0 | 0 |
|      | 3  | 0 | 0 | 0 | 0 |
|      | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS |
|-----|---------|---------------|-----------------|---------|
| 1   | 0.29    | 4.22          | 0.4             | A       |
| 2   | 0.41    | 3.95          | 0.7             | A       |
| 3   | 0.33    | 4.70          | 0.5             | A       |
| 4   | 0.42    | 4.95          | 0.7             | A       |

### Main Results for each time segment

#### 07:45 - 08:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 244                   | 367                       | 1316              | 0.185 | 243                 | 0.2             | 3.352     | A                             |
| 2   | 432                   | 128                       | 1582              | 0.273 | 431                 | 0.4             | 3.121     | A                             |
| 3   | 254                   | 404                       | 1252              | 0.203 | 253                 | 0.3             | 3.601     | A                             |
| 4   | 364                   | 388                       | 1378              | 0.264 | 363                 | 0.4             | 3.541     | A                             |

### 08:00 - 08:15

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 291                   | 440                       | 1271              | 0.229 | 291                 | 0.3             | 3.672     | A                             |
| 2   | 516                   | 153                       | 1566              | 0.329 | 516                 | 0.5             | 3.424     | A                             |
| 3   | 304                   | 484                       | 1204              | 0.252 | 304                 | 0.3             | 3.996     | A                             |
| 4   | 435                   | 464                       | 1328              | 0.328 | 435                 | 0.5             | 4.026     | A                             |

### 08:15 - 08:30

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 357                   | 539                       | 1211              | 0.295 | 356                 | 0.4             | 4.211     | A                             |
| 2   | 632                   | 187                       | 1544              | 0.409 | 631                 | 0.7             | 3.939     | A                             |
| 3   | 372                   | 593                       | 1139              | 0.327 | 372                 | 0.5             | 4.689     | A                             |
| 4   | 533                   | 568                       | 1261              | 0.423 | 532                 | 0.7             | 4.933     | A                             |

### 08:30 - 08:45

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 357                   | 539                       | 1210              | 0.295 | 357                 | 0.4             | 4.217     | A                             |
| 2   | 632                   | 187                       | 1544              | 0.409 | 632                 | 0.7             | 3.946     | A                             |
| 3   | 372                   | 593                       | 1138              | 0.327 | 372                 | 0.5             | 4.698     | A                             |
| 4   | 533                   | 569                       | 1260              | 0.423 | 533                 | 0.7             | 4.948     | A                             |

### 08:45 - 09:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 291                   | 441                       | 1270              | 0.229 | 292                 | 0.3             | 3.682     | A                             |
| 2   | 516                   | 153                       | 1566              | 0.330 | 517                 | 0.5             | 3.435     | A                             |
| 3   | 304                   | 485                       | 1203              | 0.252 | 304                 | 0.3             | 4.008     | A                             |
| 4   | 435                   | 466                       | 1328              | 0.328 | 436                 | 0.5             | 4.041     | A                             |

### 09:00 - 09:15

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 244                   | 369                       | 1315              | 0.186 | 244                 | 0.2             | 3.366     | A                             |
| 2   | 432                   | 128                       | 1582              | 0.273 | 433                 | 0.4             | 3.134     | A                             |
| 3   | 254                   | 406                       | 1251              | 0.203 | 255                 | 0.3             | 3.616     | A                             |
| 4   | 364                   | 390                       | 1377              | 0.265 | 365                 | 0.4             | 3.560     | A                             |

# 2025 | Base | PM

## Data Errors and Warnings

| Severity | Area        | Item | Description                                                                                                                                                                                  |
|----------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Vehicle Mix |      | HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning. |

## Junction Network

### Junctions

| Junction | Name     | Junction type       | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|---------------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Standard Roundabout |                       | 1, 2, 3, 4 | 4.89               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 4.89              | 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) |
|----|------|----------|-------------|----------------------|--------------------|---------------------|---------------------------|
| D2 | 2025 | Base     | PM          | ONE HOUR             | 16:45              | 18:15               | 15                        |

### Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| 1   |            | ✓            | 416                     | 100.000            |
| 2   |            | ✓            | 760                     | 100.000            |
| 3   |            | ✓            | 278                     | 100.000            |
| 4   |            | ✓            | 442                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |     |     |
|------|----|-----|-----|-----|-----|
|      |    | 1   | 2   | 3   | 4   |
| From | 1  | 5   | 253 | 123 | 35  |
|      | 2  | 196 | 0   | 190 | 374 |
|      | 3  | 112 | 116 | 0   | 50  |
|      | 4  | 54  | 327 | 61  | 0   |

## Vehicle Mix

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
| From | 1  | 0 | 0 | 0 | 0 |
|      | 2  | 0 | 0 | 0 | 0 |
|      | 3  | 0 | 0 | 0 | 0 |
|      | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS |
|-----|---------|---------------|-----------------|---------|
| 1   | 0.38    | 4.85          | 0.6             | A       |
| 2   | 0.56    | 5.38          | 1.2             | A       |
| 3   | 0.28    | 4.58          | 0.4             | A       |
| 4   | 0.37    | 4.30          | 0.6             | A       |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 313                   | 378                       | 1309              | 0.239 | 312                 | 0.3             | 3.604     | A                             |
| 2   | 572                   | 168                       | 1556              | 0.368 | 570                 | 0.6             | 3.642     | A                             |
| 3   | 209                   | 457                       | 1220              | 0.172 | 208                 | 0.2             | 3.554     | A                             |
| 4   | 333                   | 322                       | 1421              | 0.234 | 332                 | 0.3             | 3.301     | A                             |

#### 17:00 - 17:15

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 374                   | 453                       | 1264              | 0.296 | 374                 | 0.4             | 4.043     | A                             |
| 2   | 683                   | 201                       | 1535              | 0.445 | 682                 | 0.8             | 4.217     | A                             |
| 3   | 250                   | 548                       | 1166              | 0.214 | 250                 | 0.3             | 3.928     | A                             |
| 4   | 397                   | 385                       | 1380              | 0.288 | 397                 | 0.4             | 3.659     | A                             |

#### 17:15 - 17:30

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 458                   | 554                       | 1201              | 0.381 | 457                 | 0.6             | 4.833     | A                             |
| 2   | 837                   | 246                       | 1506              | 0.556 | 835                 | 1.2             | 5.350     | A                             |
| 3   | 306                   | 670                       | 1092              | 0.280 | 306                 | 0.4             | 4.574     | A                             |
| 4   | 487                   | 471                       | 1324              | 0.368 | 486                 | 0.6             | 4.293     | A                             |

#### 17:30 - 17:45

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 458                   | 555                       | 1201              | 0.381 | 458                 | 0.6             | 4.846     | A                             |
| 2   | 837                   | 247                       | 1506              | 0.556 | 837                 | 1.2             | 5.380     | A                             |
| 3   | 306                   | 672                       | 1091              | 0.280 | 306                 | 0.4             | 4.584     | A                             |
| 4   | 487                   | 472                       | 1323              | 0.368 | 487                 | 0.6             | 4.302     | A                             |

#### 17:45 - 18:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 374                   | 454                       | 1263              | 0.296 | 375                 | 0.4             | 4.057     | A                             |
| 2   | 683                   | 202                       | 1535              | 0.445 | 685                 | 0.8             | 4.246     | A                             |
| 3   | 250                   | 550                       | 1165              | 0.215 | 250                 | 0.3             | 3.939     | A                             |
| 4   | 397                   | 386                       | 1379              | 0.288 | 398                 | 0.4             | 3.671     | A                             |

**18:00 - 18:15**

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 313                   | 380                       | 1308              | 0.239 | 314                 | 0.3             | 3.623     | A                             |
| 2   | 572                   | 169                       | 1556              | 0.368 | 573                 | 0.6             | 3.668     | A                             |
| 3   | 209                   | 460                       | 1219              | 0.172 | 210                 | 0.2             | 3.567     | A                             |
| 4   | 333                   | 323                       | 1420              | 0.234 | 333                 | 0.3             | 3.312     | A                             |

# 2030 | Base + CD | AM

## Data Errors and Warnings

| Severity | Area        | Item | Description                                                                                                                                                                                  |
|----------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Vehicle Mix |      | HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning. |

## Junction Network

### Junctions

| Junction | Name     | Junction type       | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|---------------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Standard Roundabout |                       | 1, 2, 3, 4 | 4.62               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 4.62              | 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) |
|----|------|-----------|-------------|----------------------|--------------------|---------------------|---------------------------|
| D3 | 2030 | Base + CD | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        |

### Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| 1   |            | ✓            | 336                     | 100.000            |
| 2   |            | ✓            | 602                     | 100.000            |
| 3   |            | ✓            | 351                     | 100.000            |
| 4   |            | ✓            | 505                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |    |     |
|------|----|-----|-----|----|-----|
|      |    | 1   | 2   | 3  | 4   |
| From | 1  | 2   | 192 | 85 | 57  |
|      | 2  | 228 | 1   | 97 | 276 |
|      | 3  | 180 | 126 | 0  | 45  |
|      | 4  | 121 | 352 | 32 | 0   |

## Vehicle Mix

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
| From | 1  | 0 | 0 | 0 | 0 |
|      | 2  | 0 | 0 | 0 | 0 |
|      | 3  | 0 | 0 | 0 | 0 |
|      | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS |
|-----|---------|---------------|-----------------|---------|
| 1   | 0.31    | 4.36          | 0.4             | A       |
| 2   | 0.43    | 4.10          | 0.8             | A       |
| 3   | 0.34    | 4.89          | 0.5             | A       |
| 4   | 0.45    | 5.22          | 0.8             | A       |

### Main Results for each time segment

#### 07:45 - 08:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 253                   | 383                       | 1306              | 0.194 | 252                 | 0.2             | 3.412     | A                             |
| 2   | 453                   | 132                       | 1580              | 0.287 | 452                 | 0.4             | 3.187     | A                             |
| 3   | 264                   | 423                       | 1241              | 0.213 | 263                 | 0.3             | 3.679     | A                             |
| 4   | 380                   | 403                       | 1369              | 0.278 | 379                 | 0.4             | 3.632     | A                             |

#### 08:00 - 08:15

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 302                   | 459                       | 1260              | 0.240 | 302                 | 0.3             | 3.758     | A                             |
| 2   | 541                   | 158                       | 1563              | 0.346 | 541                 | 0.5             | 3.520     | A                             |
| 3   | 316                   | 507                       | 1191              | 0.265 | 315                 | 0.4             | 4.110     | A                             |
| 4   | 454                   | 482                       | 1317              | 0.345 | 453                 | 0.5             | 4.167     | A                             |

#### 08:15 - 08:30

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 370                   | 562                       | 1197              | 0.309 | 369                 | 0.4             | 4.349     | A                             |
| 2   | 663                   | 193                       | 1540              | 0.430 | 662                 | 0.7             | 4.095     | A                             |
| 3   | 386                   | 620                       | 1122              | 0.344 | 386                 | 0.5             | 4.884     | A                             |
| 4   | 556                   | 590                       | 1247              | 0.446 | 555                 | 0.8             | 5.196     | A                             |

#### 08:30 - 08:45

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 370                   | 563                       | 1196              | 0.309 | 370                 | 0.4             | 4.357     | A                             |
| 2   | 663                   | 194                       | 1540              | 0.430 | 663                 | 0.8             | 4.104     | A                             |
| 3   | 386                   | 621                       | 1122              | 0.345 | 386                 | 0.5             | 4.895     | A                             |
| 4   | 556                   | 591                       | 1246              | 0.446 | 556                 | 0.8             | 5.217     | A                             |

#### 08:45 - 09:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 302                   | 460                       | 1259              | 0.240 | 303                 | 0.3             | 3.766     | A                             |
| 2   | 541                   | 159                       | 1563              | 0.346 | 542                 | 0.5             | 3.529     | A                             |
| 3   | 316                   | 508                       | 1190              | 0.265 | 316                 | 0.4             | 4.123     | A                             |
| 4   | 454                   | 484                       | 1316              | 0.345 | 455                 | 0.5             | 4.188     | A                             |

## 09:00 - 09:15

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 253                   | 385                       | 1305              | 0.194 | 253                 | 0.2             | 3.426     | A                             |
| 2   | 453                   | 133                       | 1579              | 0.287 | 454                 | 0.4             | 3.199     | A                             |
| 3   | 264                   | 425                       | 1240              | 0.213 | 265                 | 0.3             | 3.692     | A                             |
| 4   | 380                   | 405                       | 1367              | 0.278 | 381                 | 0.4             | 3.653     | A                             |

# 2030 | Base + CD | PM

## Data Errors and Warnings

| Severity | Area        | Item | Description                                                                                                                                                                                  |
|----------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Vehicle Mix |      | HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning. |

## Junction Network

### Junctions

| Junction | Name     | Junction type       | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|---------------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Standard Roundabout |                       | 1, 2, 3, 4 | 5.12               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 5.12              | 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) |
|----|------|-----------|-------------|----------------------|--------------------|---------------------|---------------------------|
| D4 | 2030 | Base + CD | PM          | ONE HOUR             | 16:45              | 18:15               | 15                        |

### Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| 1   |            | ✓            | 430                     | 100.000            |
| 2   |            | ✓            | 788                     | 100.000            |
| 3   |            | ✓            | 288                     | 100.000            |
| 4   |            | ✓            | 460                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |     |     |
|------|----|-----|-----|-----|-----|
|      |    | 1   | 2   | 3   | 4   |
| From | 1  | 5   | 262 | 127 | 36  |
|      | 2  | 203 | 0   | 197 | 388 |
|      | 3  | 116 | 120 | 0   | 52  |
|      | 4  | 56  | 341 | 63  | 0   |

## Vehicle Mix

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
| From | 1  | 0 | 0 | 0 | 0 |
|      | 2  | 0 | 0 | 0 | 0 |
|      | 3  | 0 | 0 | 0 | 0 |
|      | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS |
|-----|---------|---------------|-----------------|---------|
| 1   | 0.40    | 5.04          | 0.7             | A       |
| 2   | 0.58    | 5.68          | 1.4             | A       |
| 3   | 0.29    | 4.74          | 0.4             | A       |
| 4   | 0.39    | 4.47          | 0.6             | A       |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 324                   | 393                       | 1300              | 0.249 | 322                 | 0.3             | 3.677     | A                             |
| 2   | 593                   | 173                       | 1553              | 0.382 | 591                 | 0.6             | 3.732     | A                             |
| 3   | 217                   | 474                       | 1210              | 0.179 | 216                 | 0.2             | 3.616     | A                             |
| 4   | 346                   | 333                       | 1414              | 0.245 | 345                 | 0.3             | 3.363     | A                             |

#### 17:00 - 17:15

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 387                   | 471                       | 1253              | 0.309 | 386                 | 0.4             | 4.153     | A                             |
| 2   | 708                   | 207                       | 1531              | 0.463 | 707                 | 0.9             | 4.364     | A                             |
| 3   | 259                   | 567                       | 1154              | 0.224 | 259                 | 0.3             | 4.019     | A                             |
| 4   | 414                   | 399                       | 1371              | 0.302 | 413                 | 0.4             | 3.755     | A                             |

#### 17:15 - 17:30

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 473                   | 576                       | 1188              | 0.399 | 473                 | 0.7             | 5.027     | A                             |
| 2   | 868                   | 254                       | 1501              | 0.578 | 866                 | 1.3             | 5.646     | A                             |
| 3   | 317                   | 694                       | 1078              | 0.294 | 317                 | 0.4             | 4.727     | A                             |
| 4   | 506                   | 488                       | 1313              | 0.386 | 506                 | 0.6             | 4.455     | A                             |

#### 17:30 - 17:45

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 473                   | 577                       | 1187              | 0.399 | 473                 | 0.7             | 5.042     | A                             |
| 2   | 868                   | 254                       | 1501              | 0.578 | 868                 | 1.4             | 5.684     | A                             |
| 3   | 317                   | 696                       | 1077              | 0.295 | 317                 | 0.4             | 4.738     | A                             |
| 4   | 506                   | 489                       | 1313              | 0.386 | 506                 | 0.6             | 4.465     | A                             |

#### 17:45 - 18:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 387                   | 472                       | 1252              | 0.309 | 387                 | 0.4             | 4.170     | A                             |
| 2   | 708                   | 208                       | 1531              | 0.463 | 710                 | 0.9             | 4.398     | A                             |
| 3   | 259                   | 570                       | 1153              | 0.225 | 259                 | 0.3             | 4.033     | A                             |
| 4   | 414                   | 400                       | 1370              | 0.302 | 414                 | 0.4             | 3.767     | A                             |

**18:00 - 18:15**

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 324                   | 395                       | 1299              | 0.249 | 324                 | 0.3             | 3.697     | A                             |
| 2   | 593                   | 174                       | 1552              | 0.382 | 594                 | 0.6             | 3.759     | A                             |
| 3   | 217                   | 477                       | 1209              | 0.179 | 217                 | 0.2             | 3.630     | A                             |
| 4   | 346                   | 335                       | 1413              | 0.245 | 347                 | 0.3             | 3.377     | A                             |

# 2030 | Base + CD + Dev | AM

## Data Errors and Warnings

| Severity | Area        | Item | Description                                                                                                                                                                                  |
|----------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Vehicle Mix |      | HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning. |

## Junction Network

### Junctions

| Junction | Name     | Junction type       | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|---------------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Standard Roundabout |                       | 1, 2, 3, 4 | 4.65               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 4.65              | 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) |
|----|------|-----------------|-------------|----------------------|--------------------|---------------------|---------------------------|
| D5 | 2030 | Base + CD + Dev | AM          | ONE HOUR             | 07:45              | 09:15               | 15                        |

### Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| 1   |            | ✓            | 337                     | 100.000            |
| 2   |            | ✓            | 609                     | 100.000            |
| 3   |            | ✓            | 352                     | 100.000            |
| 4   |            | ✓            | 509                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |    |     |
|------|----|-----|-----|----|-----|
|      |    | 1   | 2   | 3  | 4   |
| From | 1  | 2   | 193 | 85 | 57  |
|      | 2  | 229 | 1   | 98 | 281 |
|      | 3  | 180 | 127 | 0  | 45  |
|      | 4  | 121 | 356 | 32 | 0   |

## Vehicle Mix

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
| From | 1  | 0 | 0 | 0 | 0 |
|      | 2  | 0 | 0 | 0 | 0 |
|      | 3  | 0 | 0 | 0 | 0 |
|      | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS |
|-----|---------|---------------|-----------------|---------|
| 1   | 0.31    | 4.38          | 0.4             | A       |
| 2   | 0.44    | 4.14          | 0.8             | A       |
| 3   | 0.35    | 4.93          | 0.5             | A       |
| 4   | 0.45    | 5.26          | 0.8             | A       |

### Main Results for each time segment

#### 07:45 - 08:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 254                   | 387                       | 1304              | 0.195 | 253                 | 0.2             | 3.421     | A                             |
| 2   | 458                   | 132                       | 1580              | 0.290 | 457                 | 0.4             | 3.202     | A                             |
| 3   | 265                   | 428                       | 1238              | 0.214 | 264                 | 0.3             | 3.692     | A                             |
| 4   | 383                   | 404                       | 1368              | 0.280 | 382                 | 0.4             | 3.651     | A                             |

#### 08:00 - 08:15

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 303                   | 463                       | 1257              | 0.241 | 303                 | 0.3             | 3.772     | A                             |
| 2   | 547                   | 158                       | 1563              | 0.350 | 547                 | 0.5             | 3.541     | A                             |
| 3   | 316                   | 512                       | 1187              | 0.267 | 316                 | 0.4             | 4.129     | A                             |
| 4   | 458                   | 484                       | 1316              | 0.348 | 457                 | 0.5             | 4.190     | A                             |

#### 08:15 - 08:30

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 371                   | 567                       | 1193              | 0.311 | 371                 | 0.4             | 4.372     | A                             |
| 2   | 671                   | 193                       | 1540              | 0.435 | 670                 | 0.8             | 4.131     | A                             |
| 3   | 388                   | 627                       | 1118              | 0.347 | 387                 | 0.5             | 4.918     | A                             |
| 4   | 560                   | 593                       | 1245              | 0.450 | 559                 | 0.8             | 5.240     | A                             |

#### 08:30 - 08:45

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 371                   | 568                       | 1193              | 0.311 | 371                 | 0.4             | 4.381     | A                             |
| 2   | 671                   | 194                       | 1540              | 0.435 | 671                 | 0.8             | 4.140     | A                             |
| 3   | 388                   | 628                       | 1118              | 0.347 | 388                 | 0.5             | 4.929     | A                             |
| 4   | 560                   | 593                       | 1245              | 0.450 | 560                 | 0.8             | 5.261     | A                             |

#### 08:45 - 09:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 303                   | 465                       | 1256              | 0.241 | 303                 | 0.3             | 3.780     | A                             |
| 2   | 547                   | 159                       | 1563              | 0.350 | 548                 | 0.5             | 3.552     | A                             |
| 3   | 316                   | 513                       | 1187              | 0.267 | 317                 | 0.4             | 4.144     | A                             |
| 4   | 458                   | 485                       | 1315              | 0.348 | 459                 | 0.5             | 4.210     | A                             |

## 09:00 - 09:15

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 254                   | 389                       | 1303              | 0.195 | 254                 | 0.2             | 3.433     | A                             |
| 2   | 458                   | 133                       | 1579              | 0.290 | 459                 | 0.4             | 3.214     | A                             |
| 3   | 265                   | 430                       | 1237              | 0.214 | 265                 | 0.3             | 3.705     | A                             |
| 4   | 383                   | 406                       | 1366              | 0.280 | 384                 | 0.4             | 3.668     | A                             |

# 2030 | Base + CD + Dev | PM

## Data Errors and Warnings

| Severity | Area        | Item | Description                                                                                                                                                                                  |
|----------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning  | Vehicle Mix |      | HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning. |

## Junction Network

### Junctions

| Junction | Name     | Junction type       | Use circulating lanes | Arm order  | Junction Delay (s) | Junction LOS |
|----------|----------|---------------------|-----------------------|------------|--------------------|--------------|
| 1        | untitled | Standard Roundabout |                       | 1, 2, 3, 4 | 5.18               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 5.18              | 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) |
|----|------|-----------------|-------------|----------------------|--------------------|---------------------|---------------------------|
| D6 | 2030 | Base + CD + Dev | PM          | ONE HOUR             | 16:45              | 18:15               | 15                        |

### Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| 1   |            | ✓            | 430                     | 100.000            |
| 2   |            | ✓            | 796                     | 100.000            |
| 3   |            | ✓            | 289                     | 100.000            |
| 4   |            | ✓            | 466                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |     |     |     |
|------|----|-----|-----|-----|-----|
|      |    | 1   | 2   | 3   | 4   |
| From | 1  | 5   | 262 | 127 | 36  |
|      | 2  | 204 | 0   | 198 | 394 |
|      | 3  | 116 | 121 | 0   | 52  |
|      | 4  | 56  | 347 | 63  | 0   |

## Vehicle Mix

### Heavy Vehicle %

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      |    | 1 | 2 | 3 | 4 |
| From | 1  | 0 | 0 | 0 | 0 |
|      | 2  | 0 | 0 | 0 | 0 |
|      | 3  | 0 | 0 | 0 | 0 |
|      | 4  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Arm | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS |
|-----|---------|---------------|-----------------|---------|
| 1   | 0.40    | 5.08          | 0.7             | A       |
| 2   | 0.58    | 5.76          | 1.4             | A       |
| 3   | 0.30    | 4.77          | 0.4             | A       |
| 4   | 0.39    | 4.51          | 0.6             | A       |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 324                   | 398                       | 1297              | 0.250 | 322                 | 0.3             | 3.689     | A                             |
| 2   | 599                   | 173                       | 1553              | 0.386 | 597                 | 0.6             | 3.755     | A                             |
| 3   | 218                   | 479                       | 1207              | 0.180 | 217                 | 0.2             | 3.631     | A                             |
| 4   | 351                   | 334                       | 1413              | 0.248 | 350                 | 0.3             | 3.380     | A                             |

#### 17:00 - 17:15

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 387                   | 477                       | 1249              | 0.310 | 386                 | 0.4             | 4.172     | A                             |
| 2   | 716                   | 207                       | 1531              | 0.467 | 715                 | 0.9             | 4.403     | A                             |
| 3   | 260                   | 574                       | 1150              | 0.226 | 260                 | 0.3             | 4.041     | A                             |
| 4   | 419                   | 400                       | 1370              | 0.306 | 418                 | 0.4             | 3.781     | A                             |

#### 17:15 - 17:30

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 473                   | 584                       | 1183              | 0.400 | 473                 | 0.7             | 5.060     | A                             |
| 2   | 876                   | 254                       | 1501              | 0.584 | 874                 | 1.4             | 5.725     | A                             |
| 3   | 318                   | 702                       | 1073              | 0.297 | 318                 | 0.4             | 4.763     | A                             |
| 4   | 513                   | 490                       | 1312              | 0.391 | 512                 | 0.6             | 4.498     | A                             |

#### 17:30 - 17:45

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 473                   | 585                       | 1183              | 0.400 | 473                 | 0.7             | 5.076     | A                             |
| 2   | 876                   | 254                       | 1501              | 0.584 | 876                 | 1.4             | 5.764     | A                             |
| 3   | 318                   | 704                       | 1072              | 0.297 | 318                 | 0.4             | 4.774     | A                             |
| 4   | 513                   | 491                       | 1311              | 0.391 | 513                 | 0.6             | 4.510     | A                             |

#### 17:45 - 18:00

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 387                   | 478                       | 1248              | 0.310 | 387                 | 0.5             | 4.189     | A                             |
| 2   | 716                   | 208                       | 1531              | 0.468 | 718                 | 0.9             | 4.440     | A                             |
| 3   | 260                   | 576                       | 1149              | 0.226 | 260                 | 0.3             | 4.053     | A                             |
| 4   | 419                   | 402                       | 1369              | 0.306 | 420                 | 0.4             | 3.797     | A                             |

**18:00 - 18:15**

| Arm | Total Demand (PCU/hr) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----|-----------------------|---------------------------|-------------------|-------|---------------------|-----------------|-----------|-------------------------------|
| 1   | 324                   | 400                       | 1296              | 0.250 | 324                 | 0.3             | 3.706     | A                             |
| 2   | 599                   | 174                       | 1552              | 0.386 | 600                 | 0.6             | 3.786     | A                             |
| 3   | 218                   | 482                       | 1206              | 0.180 | 218                 | 0.2             | 3.648     | A                             |
| 4   | 351                   | 336                       | 1412              | 0.249 | 351                 | 0.3             | 3.397     | A                             |