

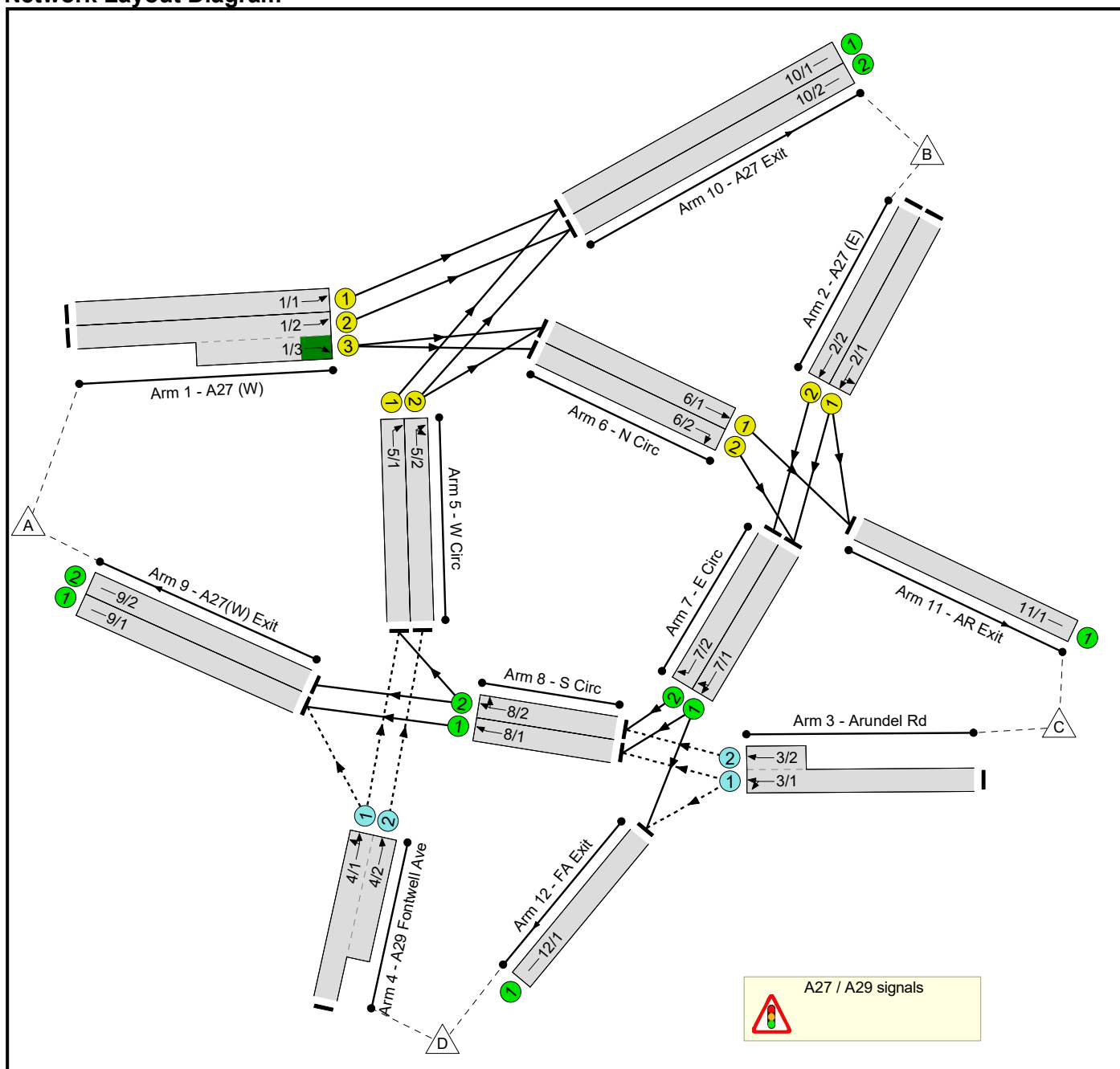
# Full Input Data And Results

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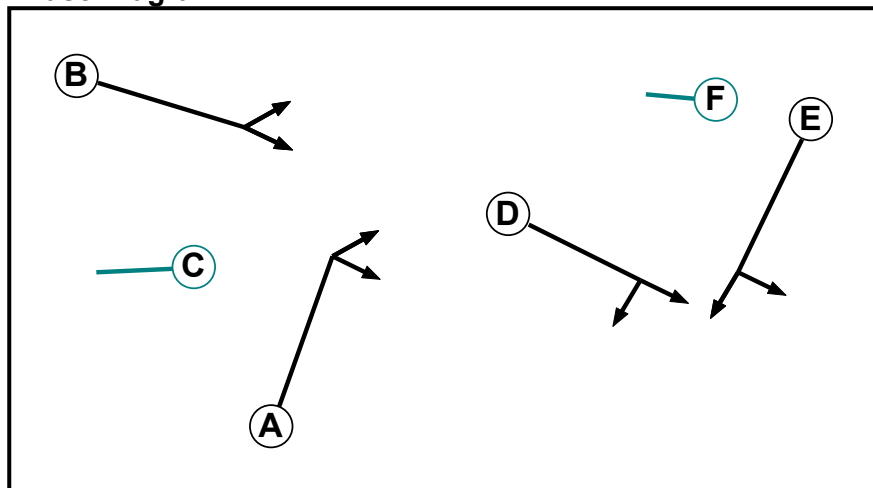
### User and Project Details

|                    |                                                |
|--------------------|------------------------------------------------|
| Project:           | Land east of Tye Lane, Walberton               |
| Title:             | A27 / A29 Signal Roundabout - Fontwell Western |
| Location:          |                                                |
| Additional detail: | Phil Jones Associates Dwg 0103 Rev A           |
| File name:         | A27_A29 Fontwell West Rbt S278.lsg3x           |
| Author:            |                                                |
| Company:           |                                                |
| Address:           |                                                |

### Network Layout Diagram



## Phase Diagram



## Phase Input Data

| Phase Name | Phase Type | Stage Stream | Assoc. Phase | Street Min | Cont Min |
|------------|------------|--------------|--------------|------------|----------|
| A          | Traffic    | 1            |              | -9999      | 7        |
| B          | Traffic    | 1            |              | -9999      | 7        |
| C          | Dummy      | 1            |              | -9999      | 2        |
| D          | Traffic    | 2            |              | -9999      | 7        |
| E          | Traffic    | 2            |              | -9999      | 7        |
| F          | Dummy      | 2            |              | -9999      | 2        |

## Phase Intergreens Matrix

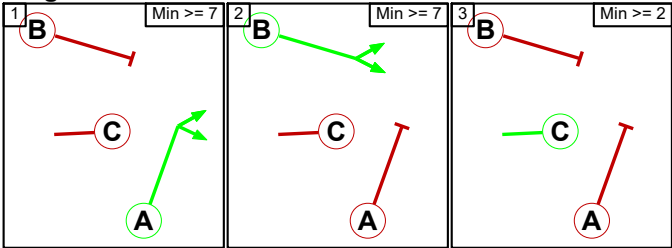
| Race into greens matrix |                |   |   |   |   |   |   |
|-------------------------|----------------|---|---|---|---|---|---|
|                         | Starting Phase |   |   |   |   |   |   |
| Terminating Phase       |                | A | B | C | D | E | F |
|                         | A              |   | 5 | 3 | - | - | - |
|                         | B              | 6 |   | 3 | - | - | - |
|                         | C              | 2 | 2 |   | - | - | - |
|                         | D              | - | - | - |   | 5 | 3 |
|                         | E              | - | - | - | 6 |   | 3 |
|                         | F              | - | - | - | 2 | 2 |   |

## Phases in Stage

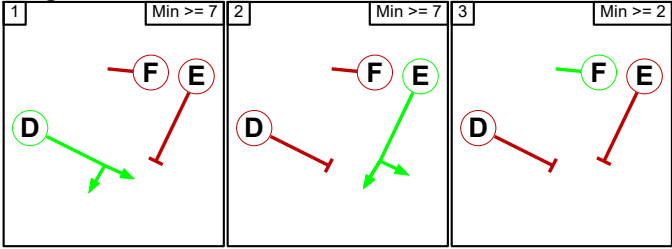
| Stream | Stage No. | Phases in Stage |
|--------|-----------|-----------------|
| 1      | 1         | A               |
| 1      | 2         | B               |
| 1      | 3         | C               |
| 2      | 1         | D               |
| 2      | 2         | E               |
| 2      | 3         | F               |

Stage Diagram

Stage Stream: 1



Stage Stream: 2



Phase Delays

Stage Stream: 1

| Term.                             | Stage | Start Stage | Phase | Type | Value | Cont value |
|-----------------------------------|-------|-------------|-------|------|-------|------------|
| There are no Phase Delays defined |       |             |       |      |       |            |

Stage Stream: 2

| Term.                             | Stage | Start Stage | Phase | Type | Value | Cont value |
|-----------------------------------|-------|-------------|-------|------|-------|------------|
| There are no Phase Delays defined |       |             |       |      |       |            |

Prohibited Stage Change

Stage Stream: 1

|            |   | To Stage |   |   |
|------------|---|----------|---|---|
| From Stage |   | 1        | 2 | 3 |
|            | 1 |          | 5 | 3 |
|            | 2 | 6        |   | 3 |
|            | 3 | 2        | 2 |   |

Stage Stream: 2

|            |   | To Stage |   |   |
|------------|---|----------|---|---|
| From Stage |   | 1        | 2 | 3 |
|            | 1 |          | 5 | 3 |
|            | 2 | 6        |   | 3 |
|            | 3 | 2        | 2 |   |

## Full Input Data And Results

**Give-Way Lane Input Data**

| Junction: A27 / A29 signals |             |                                            |                                            |                  |                     |                 |                             |                                  |     |                           |                                     |
|-----------------------------|-------------|--------------------------------------------|--------------------------------------------|------------------|---------------------|-----------------|-----------------------------|----------------------------------|-----|---------------------------|-------------------------------------|
| Lane                        | Movement    | Max Flow<br>when<br>Giving Way<br>(PCU/Hr) | Min Flow<br>when<br>Giving Way<br>(PCU/Hr) | Opposing<br>Lane | Opp. Lane<br>Coeff. | Opp.<br>Mvmnts. | Right Turn<br>Storage (PCU) | Non-Blocking<br>Storage<br>(PCU) | RTF | Right Turn<br>Move up (s) | Max Turns<br>in Intergreen<br>(PCU) |
| 3/1<br>(Arundel Rd)         | 8/1 (Ahead) | 1029                                       | 0                                          | 7/1              | 1.00                | All             | -                           | -                                | -   | -                         | -                                   |
|                             |             |                                            |                                            | 7/2              | 1.00                | All             |                             |                                  |     |                           |                                     |
|                             | 12/1 (Left) | 1029                                       | 0                                          | 7/1              | 1.00                | All             |                             |                                  |     |                           |                                     |
| 3/2<br>(Arundel Rd)         | 8/2 (Ahead) | 1029                                       | 0                                          | 7/2              | 1.00                | All             | -                           | -                                | -   | -                         | -                                   |
|                             |             |                                            |                                            | 7/1              | 1.00                | All             |                             |                                  |     |                           |                                     |
| 4/1<br>(A29 Fontwell Ave)   | 5/1 (Ahead) | 1158                                       | 0                                          | 8/1              | 1.00                | All             | -                           | -                                | -   | -                         | -                                   |
|                             |             |                                            |                                            | 8/2              | 1.00                | All             |                             |                                  |     |                           |                                     |
|                             | 9/1 (Left)  | 1158                                       | 0                                          | 8/1              | 1.00                | All             |                             |                                  |     |                           |                                     |
| 4/2<br>(A29 Fontwell Ave)   | 5/2 (Ahead) | 1158                                       | 0                                          | 8/1              | 1.00                | All             | -                           | -                                | -   | -                         | -                                   |
|                             |             |                                            |                                            | 8/2              | 1.00                | All             |                             |                                  |     |                           |                                     |

## Full Input Data And Results

**Lane Input Data**

| Junction: A27 / A29 signals |           |        |             |           |                       |               |                                   |                |          |               |       |                    |
|-----------------------------|-----------|--------|-------------|-----------|-----------------------|---------------|-----------------------------------|----------------|----------|---------------|-------|--------------------|
| Lane                        | Lane Type | Phases | Start Disp. | End Disp. | Physical Length (PCU) | Sat Flow Type | Def User Saturation Flow (PCU/Hr) | Lane Width (m) | Gradient | Nearside Lane | Turns | Turning Radius (m) |
| 1/1<br>(A27 (W))            | U         | B      | 2           | 3         | 60.0                  | User          | 1900                              | -              | -        | -             | -     | -                  |
| 1/2<br>(A27 (W))            | U         | B      | 2           | 3         | 60.0                  | User          | 1900                              | -              | -        | -             | -     | -                  |
| 1/3<br>(A27 (W))            | U         | B      | 2           | 3         | 8.7                   | User          | 1900                              | -              | -        | -             | -     | -                  |
| 2/1<br>(A27 (E))            | U         | E      | 2           | 3         | 60.0                  | User          | 1900                              | -              | -        | -             | -     | -                  |
| 2/2<br>(A27 (E))            | U         | E      | 2           | 3         | 60.0                  | User          | 1900                              | -              | -        | -             | -     | -                  |
| 3/1<br>(Arundel Rd)         | O         |        | 2           | 3         | 60.0                  | User          | 1900                              | -              | -        | -             | -     | -                  |
| 3/2<br>(Arundel Rd)         | O         |        | 2           | 3         | 3.8                   | User          | 1900                              | -              | -        | -             | -     | -                  |
| 4/1<br>(A29 Fontwell Ave)   | O         |        | 2           | 3         | 60.0                  | User          | 1900                              | -              | -        | -             | -     | -                  |
| 4/2<br>(A29 Fontwell Ave)   | O         |        | 2           | 3         | 8.0                   | User          | 1900                              | -              | -        | -             | -     | -                  |
| 5/1<br>(W Circ)             | U         | A      | 2           | 3         | 5.0                   | User          | 1900                              | -              | -        | -             | -     | -                  |
| 5/2<br>(W Circ)             | U         | A      | 2           | 3         | 5.0                   | User          | 1900                              | -              | -        | -             | -     | -                  |
| 6/1<br>(N Circ)             | U         | D      | 2           | 3         | 9.0                   | User          | 1900                              | -              | -        | -             | -     | -                  |
| 6/2<br>(N Circ)             | U         | D      | 2           | 3         | 8.3                   | User          | 1900                              | -              | -        | -             | -     | -                  |
| 7/1<br>(E Circ)             | U         |        | 2           | 3         | 7.8                   | Inf           | -                                 | -              | -        | -             | -     | -                  |
| 7/2<br>(E Circ)             | U         |        | 2           | 3         | 7.8                   | Inf           | -                                 | -              | -        | -             | -     | -                  |
| 8/1<br>(S Circ)             | U         |        | 2           | 3         | 6.2                   | Inf           | -                                 | -              | -        | -             | -     | -                  |
| 8/2<br>(S Circ)             | U         |        | 2           | 3         | 6.2                   | Inf           | -                                 | -              | -        | -             | -     | -                  |
| 9/1<br>(A27(W) Exit)        | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -     | -                  |
| 9/2<br>(A27(W) Exit)        | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -     | -                  |
| 10/1<br>(A27 Exit)          | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -     | -                  |
| 10/2<br>(A27 Exit)          | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -     | -                  |
| 11/1<br>(AR Exit)           | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -     | -                  |
| 12/1<br>(FA Exit)           | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -     | -                  |

## Full Input Data And Results

### Traffic Flow Groups

| Flow Group                                            | Start Time | End Time | Duration | Formula |
|-------------------------------------------------------|------------|----------|----------|---------|
| 1: '2031 AM LP Base'                                  | 08:00      | 09:00    | 01:00    |         |
| 2: '2031 PM LP Base'                                  | 17:00      | 18:00    | 01:00    |         |
| 3: '2031 AM LP Base (Sensitivity)'                    | 08:00      | 09:00    | 01:00    |         |
| 4: '2031 PM LP Base (Sensitivity)'                    | 17:00      | 18:00    | 01:00    |         |
| 5: '2031 AM LP Base + Committed'                      | 08:00      | 09:00    | 01:00    |         |
| 6: '2031 PM LP Base + Committed'                      | 17:00      | 18:00    | 01:00    |         |
| 7: '2031 AM LP Base + Committed (Sensitivity)'        | 08:00      | 09:00    | 01:00    |         |
| 8: '2031 PM LP Base + Committed (Sensitivity)'        | 17:00      | 18:00    | 01:00    |         |
| 9: '2031 AM LP Base + Committed + Dev'                | 08:00      | 09:00    | 01:00    |         |
| 10: '2031 PM LP Base + Committed + Dev'               | 17:00      | 18:00    | 01:00    |         |
| 11: '2031 AM LP Base + Committed + Dev (Sensitivity)' | 08:00      | 09:00    | 01:00    |         |
| 12: '2031 PM LP Base + Committed + Dev (Sensitivity)' | 17:00      | 18:00    | 01:00    |         |

**Scenario 1: '1'** (FG1: '2031 AM LP Base', Plan 1: 'Network Control Plan 1')

### Traffic Flows, Desired

**Desired Flow :**

|        | Destination |      |      |     |     |      |
|--------|-------------|------|------|-----|-----|------|
|        |             | A    | B    | C   | D   | Tot. |
| Origin | A           | 159  | 1198 | 144 | 292 | 1793 |
|        | B           | 1437 | 0    | 0   | 214 | 1651 |
|        | C           | 453  | 0    | 0   | 2   | 455  |
|        | D           | 38   | 428  | 0   | 0   | 466  |
|        | Tot.        | 2087 | 1626 | 144 | 508 | 4365 |
|        |             |      |      |     |     |      |

## Full Input Data And Results

### Traffic Lane Flows

| Lane                        | Scenario 1:<br>1     |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 599                  |
| 1/2<br>(with short)         | 1194(In)<br>599(Out) |
| 1/3<br>(short)              | 595                  |
| 2/1                         | 826                  |
| 2/2                         | 825                  |
| 3/1<br>(with short)         | 455(In)<br>228(Out)  |
| 3/2<br>(short)              | 227                  |
| 4/1<br>(with short)         | 466(In)<br>233(Out)  |
| 4/2<br>(short)              | 233                  |
| 5/1                         | 195                  |
| 5/2                         | 233                  |
| 6/1                         | 144                  |
| 6/2                         | 451                  |
| 7/1                         | 1277                 |
| 7/2                         | 825                  |
| 8/1                         | 997                  |
| 8/2                         | 1052                 |
| 9/1                         | 1035                 |
| 9/2                         | 1052                 |
| 10/1                        | 794                  |
| 10/2                        | 832                  |
| 11/1                        | 144                  |
| 12/1                        | 508                  |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

Scenario 2: '2' (FG2: '2031 PM LP Base', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

|        | Destination |      |      |     |      |      |
|--------|-------------|------|------|-----|------|------|
| Origin |             | A    | B    | C   | D    | Tot. |
|        | A           | 95   | 1542 | 362 | 787  | 2786 |
|        | B           | 1078 | 0    | 0   | 634  | 1712 |
|        | C           | 292  | 0    | 0   | 7    | 299  |
|        | D           | 59   | 376  | 0   | 0    | 435  |
|        | Tot.        | 1524 | 1918 | 362 | 1428 | 5232 |

Traffic Lane Flows

| Lane                        | Scenario 2:<br>2     |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 1393                 |
| 1/2<br>(with short)         | 1393(In)<br>149(Out) |
| 1/3<br>(short)              | 1244                 |
| 2/1                         | 856                  |
| 2/2                         | 856                  |
| 3/1<br>(with short)         | 299(In)<br>150(Out)  |
| 3/2<br>(short)              | 149                  |
| 4/1<br>(with short)         | 435(In)<br>218(Out)  |
| 4/2<br>(short)              | 217                  |
| 5/1                         | 159                  |
| 5/2                         | 217                  |
| 6/1                         | 362                  |
| 6/2                         | 882                  |
| 7/1                         | 1738                 |
| 7/2                         | 856                  |
| 8/1                         | 460                  |
| 8/2                         | 1005                 |
| 9/1                         | 519                  |
| 9/2                         | 1005                 |
| 10/1                        | 1552                 |
| 10/2                        | 366                  |
| 11/1                        | 362                  |
| 12/1                        | 1428                 |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

Scenario 3: '3' (FG3: '2031 AM LP Base (Sensitivity)', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

|        | Destination |      |      |     |     |      |
|--------|-------------|------|------|-----|-----|------|
| Origin |             | A    | B    | C   | D   | Tot. |
|        | A           | 160  | 1172 | 144 | 295 | 1771 |
|        | B           | 1481 | 0    | 0   | 176 | 1657 |
|        | C           | 472  | 0    | 0   | 1   | 473  |
|        | D           | 37   | 378  | 0   | 0   | 415  |
|        | Tot.        | 2150 | 1550 | 144 | 472 | 4316 |

Traffic Lane Flows

| Lane                        | Scenario 3:<br>3     |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 586                  |
| 1/2<br>(with short)         | 1185(In)<br>586(Out) |
| 1/3<br>(short)              | 599                  |
| 2/1                         | 829                  |
| 2/2                         | 828                  |
| 3/1<br>(with short)         | 473(In)<br>237(Out)  |
| 3/2<br>(short)              | 236                  |
| 4/1<br>(with short)         | 415(In)<br>208(Out)  |
| 4/2<br>(short)              | 207                  |
| 5/1                         | 171                  |
| 5/2                         | 207                  |
| 6/1                         | 144                  |
| 6/2                         | 455                  |
| 7/1                         | 1284                 |
| 7/2                         | 828                  |
| 8/1                         | 1049                 |
| 8/2                         | 1064                 |
| 9/1                         | 1086                 |
| 9/2                         | 1064                 |
| 10/1                        | 757                  |
| 10/2                        | 793                  |
| 11/1                        | 144                  |
| 12/1                        | 472                  |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

Scenario 4: '4' (FG4: '2031 PM LP Base ( Sensitivity)', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

|        | Destination |      |      |     |      |      |
|--------|-------------|------|------|-----|------|------|
| Origin |             | A    | B    | C   | D    | Tot. |
|        | A           | 98   | 1635 | 353 | 711  | 2797 |
|        | B           | 1097 | 0    | 0   | 616  | 1713 |
|        | C           | 289  | 0    | 0   | 3    | 292  |
|        | D           | 60   | 560  | 0   | 0    | 620  |
|        | Tot.        | 1544 | 2195 | 353 | 1330 | 5422 |

Traffic Lane Flows

| Lane                        | Scenario 4:<br>4     |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 1398                 |
| 1/2<br>(with short)         | 1399(In)<br>237(Out) |
| 1/3<br>(short)              | 1162                 |
| 2/1                         | 857                  |
| 2/2                         | 856                  |
| 3/1<br>(with short)         | 292(In)<br>146(Out)  |
| 3/2<br>(short)              | 146                  |
| 4/1<br>(with short)         | 620(In)<br>310(Out)  |
| 4/2<br>(short)              | 310                  |
| 5/1                         | 250                  |
| 5/2                         | 310                  |
| 6/1                         | 353                  |
| 6/2                         | 809                  |
| 7/1                         | 1666                 |
| 7/2                         | 856                  |
| 8/1                         | 482                  |
| 8/2                         | 1002                 |
| 9/1                         | 542                  |
| 9/2                         | 1002                 |
| 10/1                        | 1648                 |
| 10/2                        | 547                  |
| 11/1                        | 353                  |
| 12/1                        | 1330                 |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

Scenario 5: '5' (FG5: '2031 AM LP Base + Committed', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

|        | Destination |      |      |     |     |      |
|--------|-------------|------|------|-----|-----|------|
| Origin |             | A    | B    | C   | D   | Tot. |
|        | A           | 159  | 1198 | 146 | 292 | 1795 |
|        | B           | 1437 | 0    | 0   | 214 | 1651 |
|        | C           | 458  | 0    | 0   | 2   | 460  |
|        | D           | 38   | 428  | 0   | 0   | 466  |
|        | Tot.        | 2092 | 1626 | 146 | 508 | 4372 |

Traffic Lane Flows

| Lane                        | Scenario 5:<br>5     |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 599                  |
| 1/2<br>(with short)         | 1196(In)<br>599(Out) |
| 1/3<br>(short)              | 597                  |
| 2/1                         | 826                  |
| 2/2                         | 825                  |
| 3/1<br>(with short)         | 460(In)<br>230(Out)  |
| 3/2<br>(short)              | 230                  |
| 4/1<br>(with short)         | 466(In)<br>233(Out)  |
| 4/2<br>(short)              | 233                  |
| 5/1                         | 195                  |
| 5/2                         | 233                  |
| 6/1                         | 146                  |
| 6/2                         | 451                  |
| 7/1                         | 1277                 |
| 7/2                         | 825                  |
| 8/1                         | 999                  |
| 8/2                         | 1055                 |
| 9/1                         | 1037                 |
| 9/2                         | 1055                 |
| 10/1                        | 794                  |
| 10/2                        | 832                  |
| 11/1                        | 146                  |
| 12/1                        | 508                  |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

Scenario 6: '6' (FG6: '2031 PM LP Base + Committed', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

|        | Destination |      |      |     |      |      |
|--------|-------------|------|------|-----|------|------|
| Origin |             | A    | B    | C   | D    | Tot. |
|        | A           | 95   | 1542 | 367 | 787  | 2791 |
|        | B           | 1078 | 0    | 0   | 634  | 1712 |
|        | C           | 295  | 0    | 0   | 7    | 302  |
|        | D           | 59   | 376  | 0   | 0    | 435  |
|        | Tot.        | 1527 | 1918 | 367 | 1428 | 5240 |

Traffic Lane Flows

| Lane                        | Scenario 6:<br>6     |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 1395                 |
| 1/2<br>(with short)         | 1396(In)<br>147(Out) |
| 1/3<br>(short)              | 1249                 |
| 2/1                         | 856                  |
| 2/2                         | 856                  |
| 3/1<br>(with short)         | 302(In)<br>151(Out)  |
| 3/2<br>(short)              | 151                  |
| 4/1<br>(with short)         | 435(In)<br>218(Out)  |
| 4/2<br>(short)              | 217                  |
| 5/1                         | 159                  |
| 5/2                         | 217                  |
| 6/1                         | 367                  |
| 6/2                         | 882                  |
| 7/1                         | 1738                 |
| 7/2                         | 856                  |
| 8/1                         | 461                  |
| 8/2                         | 1007                 |
| 9/1                         | 520                  |
| 9/2                         | 1007                 |
| 10/1                        | 1554                 |
| 10/2                        | 364                  |
| 11/1                        | 367                  |
| 12/1                        | 1428                 |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

Scenario 7: '7' (FG7: '2031 AM LP Base + Committed (Sensitivity)', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

|        | Destination |      |      |     |     |      |
|--------|-------------|------|------|-----|-----|------|
| Origin |             | A    | B    | C   | D   | Tot. |
|        | A           | 160  | 1172 | 146 | 295 | 1773 |
|        | B           | 1481 | 0    | 0   | 176 | 1657 |
|        | C           | 477  | 0    | 0   | 1   | 478  |
|        | D           | 37   | 378  | 0   | 0   | 415  |
|        | Tot.        | 2155 | 1550 | 146 | 472 | 4323 |

Traffic Lane Flows

| Lane                        | Scenario 7:<br>7     |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 586                  |
| 1/2<br>(with short)         | 1187(In)<br>586(Out) |
| 1/3<br>(short)              | 601                  |
| 2/1                         | 829                  |
| 2/2                         | 828                  |
| 3/1<br>(with short)         | 478(In)<br>239(Out)  |
| 3/2<br>(short)              | 239                  |
| 4/1<br>(with short)         | 415(In)<br>208(Out)  |
| 4/2<br>(short)              | 207                  |
| 5/1                         | 171                  |
| 5/2                         | 207                  |
| 6/1                         | 146                  |
| 6/2                         | 455                  |
| 7/1                         | 1284                 |
| 7/2                         | 828                  |
| 8/1                         | 1051                 |
| 8/2                         | 1067                 |
| 9/1                         | 1088                 |
| 9/2                         | 1067                 |
| 10/1                        | 757                  |
| 10/2                        | 793                  |
| 11/1                        | 146                  |
| 12/1                        | 472                  |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

Scenario 8: '8' (FG8: '2031 PM LP Base + Committed (Sensitivity)', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

|        | Destination |      |      |     |      |      |
|--------|-------------|------|------|-----|------|------|
| Origin |             | A    | B    | C   | D    | Tot. |
|        | A           | 98   | 1635 | 358 | 711  | 2802 |
|        | B           | 1097 | 0    | 0   | 616  | 1713 |
|        | C           | 292  | 0    | 0   | 3    | 295  |
|        | D           | 60   | 560  | 0   | 0    | 620  |
|        | Tot.        | 1547 | 2195 | 358 | 1330 | 5430 |

Traffic Lane Flows

| Lane                        | Scenario 8:<br>8     |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 1401                 |
| 1/2<br>(with short)         | 1401(In)<br>234(Out) |
| 1/3<br>(short)              | 1167                 |
| 2/1                         | 857                  |
| 2/2                         | 856                  |
| 3/1<br>(with short)         | 295(In)<br>148(Out)  |
| 3/2<br>(short)              | 147                  |
| 4/1<br>(with short)         | 620(In)<br>310(Out)  |
| 4/2<br>(short)              | 310                  |
| 5/1                         | 250                  |
| 5/2                         | 310                  |
| 6/1                         | 358                  |
| 6/2                         | 809                  |
| 7/1                         | 1666                 |
| 7/2                         | 856                  |
| 8/1                         | 484                  |
| 8/2                         | 1003                 |
| 9/1                         | 544                  |
| 9/2                         | 1003                 |
| 10/1                        | 1651                 |
| 10/2                        | 544                  |
| 11/1                        | 358                  |
| 12/1                        | 1330                 |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

Scenario 9: '9' (FG9: '2031 AM LP Base + Committed + Dev', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

|        | Destination |      |      |     |     |      |
|--------|-------------|------|------|-----|-----|------|
| Origin |             | A    | B    | C   | D   | Tot. |
|        | A           | 159  | 1198 | 157 | 292 | 1806 |
|        | B           | 1437 | 0    | 0   | 214 | 1651 |
|        | C           | 488  | 0    | 0   | 2   | 490  |
|        | D           | 38   | 428  | 0   | 0   | 466  |
|        | Tot.        | 2122 | 1626 | 157 | 508 | 4413 |

Traffic Lane Flows

| Lane                        | Scenario 9:<br>9     |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 599                  |
| 1/2<br>(with short)         | 1207(In)<br>599(Out) |
| 1/3<br>(short)              | 608                  |
| 2/1                         | 826                  |
| 2/2                         | 825                  |
| 3/1<br>(with short)         | 490(In)<br>245(Out)  |
| 3/2<br>(short)              | 245                  |
| 4/1<br>(with short)         | 466(In)<br>233(Out)  |
| 4/2<br>(short)              | 233                  |
| 5/1                         | 195                  |
| 5/2                         | 233                  |
| 6/1                         | 157                  |
| 6/2                         | 451                  |
| 7/1                         | 1277                 |
| 7/2                         | 825                  |
| 8/1                         | 1014                 |
| 8/2                         | 1070                 |
| 9/1                         | 1052                 |
| 9/2                         | 1070                 |
| 10/1                        | 794                  |
| 10/2                        | 832                  |
| 11/1                        | 157                  |
| 12/1                        | 508                  |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

**Scenario 10: '10'** (FG10: '2031 PM LP Base + Committed + Dev', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

|        | Destination |      |      |     |      |      |
|--------|-------------|------|------|-----|------|------|
| Origin |             | A    | B    | C   | D    | Tot. |
|        | A           | 95   | 1542 | 394 | 787  | 2818 |
|        | B           | 1078 | 0    | 0   | 634  | 1712 |
|        | C           | 311  | 0    | 0   | 7    | 318  |
|        | D           | 59   | 376  | 0   | 0    | 435  |
|        | Tot.        | 1543 | 1918 | 394 | 1428 | 5283 |

**Traffic Lane Flows**

| Lane                        | Scenario 10:<br>10   |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 1409                 |
| 1/2<br>(with short)         | 1409(In)<br>133(Out) |
| 1/3<br>(short)              | 1276                 |
| 2/1                         | 856                  |
| 2/2                         | 856                  |
| 3/1<br>(with short)         | 318(In)<br>159(Out)  |
| 3/2<br>(short)              | 159                  |
| 4/1<br>(with short)         | 435(In)<br>218(Out)  |
| 4/2<br>(short)              | 217                  |
| 5/1                         | 159                  |
| 5/2                         | 217                  |
| 6/1                         | 394                  |
| 6/2                         | 882                  |
| 7/1                         | 1738                 |
| 7/2                         | 856                  |
| 8/1                         | 469                  |
| 8/2                         | 1015                 |
| 9/1                         | 528                  |
| 9/2                         | 1015                 |
| 10/1                        | 1568                 |
| 10/2                        | 350                  |
| 11/1                        | 394                  |
| 12/1                        | 1428                 |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

**Scenario 11: '11'** (FG11: '2031 AM LP Base + Committed + Dev (Sensitivity)', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

|        | Destination |      |      |     |     |      |
|--------|-------------|------|------|-----|-----|------|
| Origin |             | A    | B    | C   | D   | Tot. |
|        | A           | 160  | 1172 | 157 | 295 | 1784 |
|        | B           | 1481 | 0    | 0   | 176 | 1657 |
|        | C           | 507  | 0    | 0   | 1   | 508  |
|        | D           | 37   | 378  | 0   | 0   | 415  |
|        | Tot.        | 2185 | 1550 | 157 | 472 | 4364 |

**Traffic Lane Flows**

| Lane                        | Scenario 11:<br>11   |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 586                  |
| 1/2<br>(with short)         | 1198(In)<br>586(Out) |
| 1/3<br>(short)              | 612                  |
| 2/1                         | 829                  |
| 2/2                         | 828                  |
| 3/1<br>(with short)         | 508(In)<br>254(Out)  |
| 3/2<br>(short)              | 254                  |
| 4/1<br>(with short)         | 415(In)<br>208(Out)  |
| 4/2<br>(short)              | 207                  |
| 5/1                         | 171                  |
| 5/2                         | 207                  |
| 6/1                         | 157                  |
| 6/2                         | 455                  |
| 7/1                         | 1284                 |
| 7/2                         | 828                  |
| 8/1                         | 1066                 |
| 8/2                         | 1082                 |
| 9/1                         | 1103                 |
| 9/2                         | 1082                 |
| 10/1                        | 757                  |
| 10/2                        | 793                  |
| 11/1                        | 157                  |
| 12/1                        | 472                  |

**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

Full Input Data And Results

**Scenario 12: '12'** (FG12: '2031 PM LP Base + Committed + Dev (Sensitivity)', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

|        | Destination |      |      |     |      |      |
|--------|-------------|------|------|-----|------|------|
| Origin |             | A    | B    | C   | D    | Tot. |
|        | A           | 98   | 1635 | 385 | 711  | 2829 |
|        | B           | 1097 | 0    | 0   | 616  | 1713 |
|        | C           | 308  | 0    | 0   | 3    | 311  |
|        | D           | 60   | 560  | 0   | 0    | 620  |
|        | Tot.        | 1563 | 2195 | 385 | 1330 | 5473 |

**Traffic Lane Flows**

| Lane                        | Scenario 12:<br>12   |
|-----------------------------|----------------------|
| Junction: A27 / A29 signals |                      |
| 1/1                         | 1414                 |
| 1/2<br>(with short)         | 1415(In)<br>221(Out) |
| 1/3<br>(short)              | 1194                 |
| 2/1                         | 857                  |
| 2/2                         | 856                  |
| 3/1<br>(with short)         | 311(In)<br>156(Out)  |
| 3/2<br>(short)              | 155                  |
| 4/1<br>(with short)         | 620(In)<br>310(Out)  |
| 4/2<br>(short)              | 310                  |
| 5/1                         | 250                  |
| 5/2                         | 310                  |
| 6/1                         | 385                  |
| 6/2                         | 809                  |
| 7/1                         | 1666                 |
| 7/2                         | 856                  |
| 8/1                         | 492                  |
| 8/2                         | 1011                 |
| 9/1                         | 552                  |
| 9/2                         | 1011                 |
| 10/1                        | 1664                 |
| 10/2                        | 531                  |
| 11/1                        | 385                  |
| 12/1                        | 1330                 |

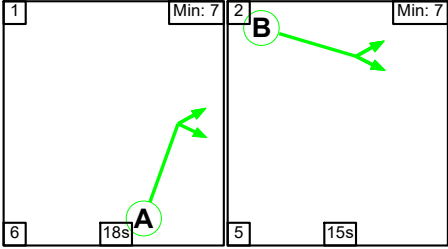
**Lane Saturation Flows**

| Junction: A27 / A29 signals      |                                                   |          |               |               |                    |               |                   |                          |
|----------------------------------|---------------------------------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| Lane                             | Lane Width (m)                                    | Gradient | Nearside Lane | Allowed Turns | Turning Radius (m) | Turning Prop. | Sat Flow (PCU/Hr) | Flared Sat Flow (PCU/Hr) |
| 1/1<br>(A27 (W) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/2<br>(A27 (W) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 1/3<br>(A27 (W) Lane 3)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/1<br>(A27 (E) Lane 1)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 2/2<br>(A27 (E) Lane 2)          | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/1<br>(Arundel Rd Lane 1)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 3/2<br>(Arundel Rd Lane 2)       | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/1<br>(A29 Fontwell Ave Lane 1) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 4/2<br>(A29 Fontwell Ave Lane 2) | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/1<br>(W Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 5/2<br>(W Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/1<br>(N Circ Lane 1)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 6/2<br>(N Circ Lane 2)           | This lane uses a directly entered Saturation Flow |          |               |               |                    |               | 1900              | 1900                     |
| 7/1<br>(E Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 7/2<br>(E Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/1<br>(S Circ Lane 1)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 8/2<br>(S Circ Lane 2)           | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/1<br>(A27(W) Exit Lane 1)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 9/2<br>(A27(W) Exit Lane 2)      | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/1<br>(A27 Exit Lane 1)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 10/2<br>(A27 Exit Lane 2)        | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 11/1<br>(AR Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |
| 12/1<br>(FA Exit Lane 1)         | Infinite Saturation Flow                          |          |               |               |                    |               | Inf               | Inf                      |

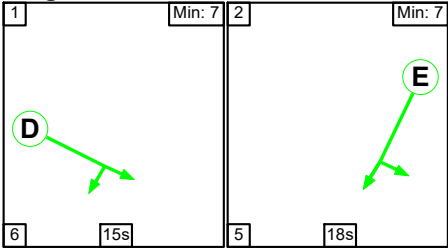
Scenario 1: '1' (FG1: '2031 AM LP Base', Plan 1: 'Network Control Plan 1')

Stage Sequence Diagram

Stage Stream: 1



Stage Stream: 2



Stage Timings

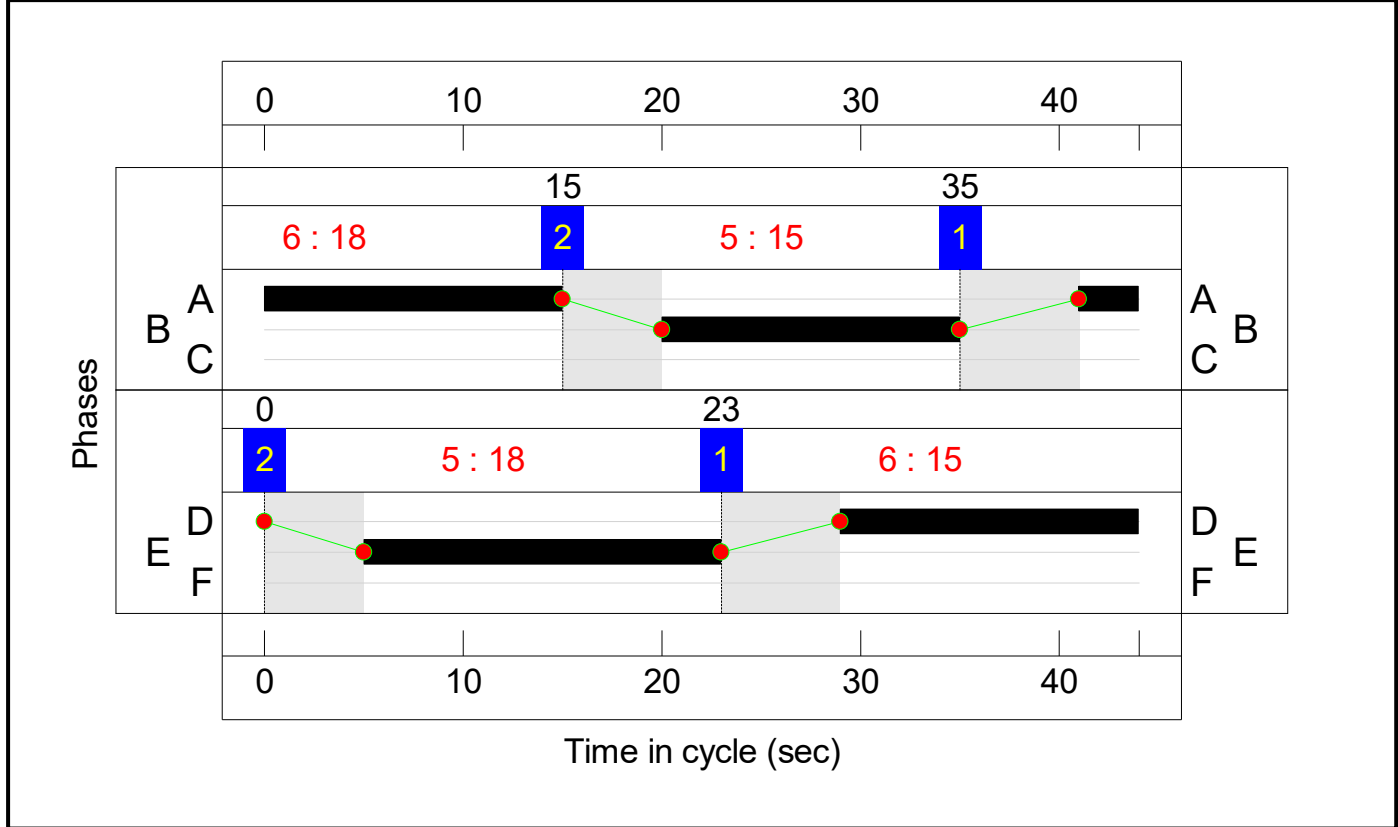
Stage Stream: 1

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 35 | 15 |

Stage Stream: 2

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 15 | 18 |
| Change Point | 23 | 0  |

Signal Timings Diagram





Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 101.2%         |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 101.2%         |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 599               | 1900              | 691            | 86.7%          |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 1194              | 1900:1900         | 691+691        | 86.7 : 86.1%   |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 826               | 1900              | 820            | 100.7%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 825               | 1900              | 820            | 100.6%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 455               | 1900:1900         | 225+225        | 101.2 : 100.7% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 466               | 1900:1900         | 235+230        | 99.3 : 101.2%  |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 195               | 1900              | 820            | 23.8%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 233               | 1900              | 820            | 28.1%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 144               | 1900              | 691            | 20.8%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 451               | 1900              | 691            | 65.3%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1277              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 825               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 997               | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1052              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1035              | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1052              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 794               | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 832               | Inf               | Inf            | 0.0%           |
| 11/1                                                           | AR Exit                     | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 144               | Inf               | Inf            | 0.0%           |

## Full Input Data And Results

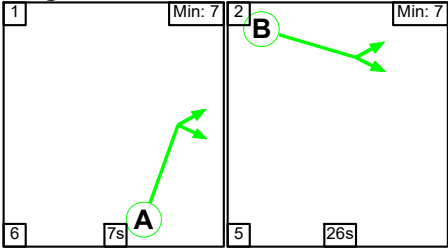
| 12/1                                                           | FA Exit        | U             | N/A                   | N/A                          | -                           |                       | -                            | -                                  | -                   | 508                       | Inf                              | Inf                        | 0.0%                 |
|----------------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|---------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| Item                                                           | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr) | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -              | -             | 1828                  | 0                            | 0                           | 16.6                  | 61.2                         | 0.0                                | 77.9                | -                         | -                                | -                          | -                    |
| <b>A27 / A29 signals</b>                                       | -              | -             | 1828                  | 0                            | 0                           | 16.6                  | 61.2                         | 0.0                                | 77.9                | -                         | -                                | -                          | -                    |
| 1/1                                                            | 599            | 599           | -                     | -                            | -                           | 2.2                   | 3.1                          | -                                  | 5.2                 | 31.4                      | 6.7                              | 3.1                        | 9.7                  |
| 1/2+1/3                                                        | 1194           | 1194          | -                     | -                            | -                           | 4.3                   | 3.1                          | -                                  | 7.4<br>(3.7+3.7)    | 22.3<br>(22.3:22.3)       | 6.7                              | 3.1                        | 9.7                  |
| 2/1                                                            | 826            | 820           | -                     | -                            | -                           | 3.0                   | 15.8                         | -                                  | 18.8                | 81.9                      | 10.2                             | 15.8                       | 26.0                 |
| 2/2                                                            | 825            | 820           | -                     | -                            | -                           | 3.0                   | 15.5                         | -                                  | 18.5                | 80.7                      | 10.1                             | 15.5                       | 25.7                 |
| 3/1+3/2                                                        | 455            | 451           | 901                   | 0                            | 0                           | 1.9                   | 11.8                         | -                                  | 13.7<br>(7.1+6.6)   | 108.2<br>(112.0:104.4)    | 7.5                              | 11.8                       | 19.3                 |
| 4/1+4/2                                                        | 466            | 463           | 926                   | 0                            | 0                           | 1.8                   | 11.9                         | -                                  | 13.7<br>(6.1+7.6)   | 106.2<br>(94.7:117.7)     | 7.5                              | 11.9                       | 19.5                 |
| 5/1                                                            | 195            | 195           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.8                       | 0.1                              | 0.0                        | 0.1                  |
| 5/2                                                            | 230            | 230           | -                     | -                            | -                           | 0.1                   | 0.0                          | -                                  | 0.1                 | 0.8                       | 0.1                              | 0.0                        | 0.1                  |
| 6/1                                                            | 144            | 144           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.8                       | 0.6                              | 0.0                        | 0.6                  |
| 6/2                                                            | 451            | 451           | -                     | -                            | -                           | 0.4                   | 0.0                          | -                                  | 0.4                 | 3.3                       | 5.3                              | 0.0                        | 5.3                  |
| 7/1                                                            | 1271           | 1271          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                            | 820            | 820           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                            | 990            | 990           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                            | 1046           | 1046          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                            | 1028           | 1028          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                            | 1046           | 1046          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                           | 794            | 794           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                           | 829            | 829           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                           | 144            | 144           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                           | 507            | 507           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

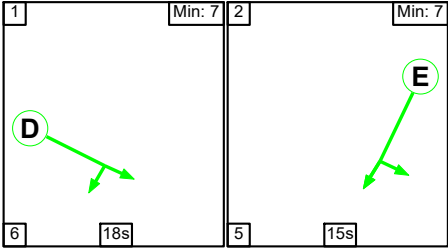
|    |           |                             |       |                                          |       |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|-------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | 3.8   | Total Delay for Signalled Lanes (pcuHr): | 12.71 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -11.9 | Total Delay for Signalled Lanes (pcuHr): | 37.74 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -12.5 | Total Delay Over All Lanes(pcuHr):       | 77.87 |                 |    |

**Stage Sequence Diagram**

**Stage Stream: 1**



**Stage Stream: 2**



**Stage Timings**

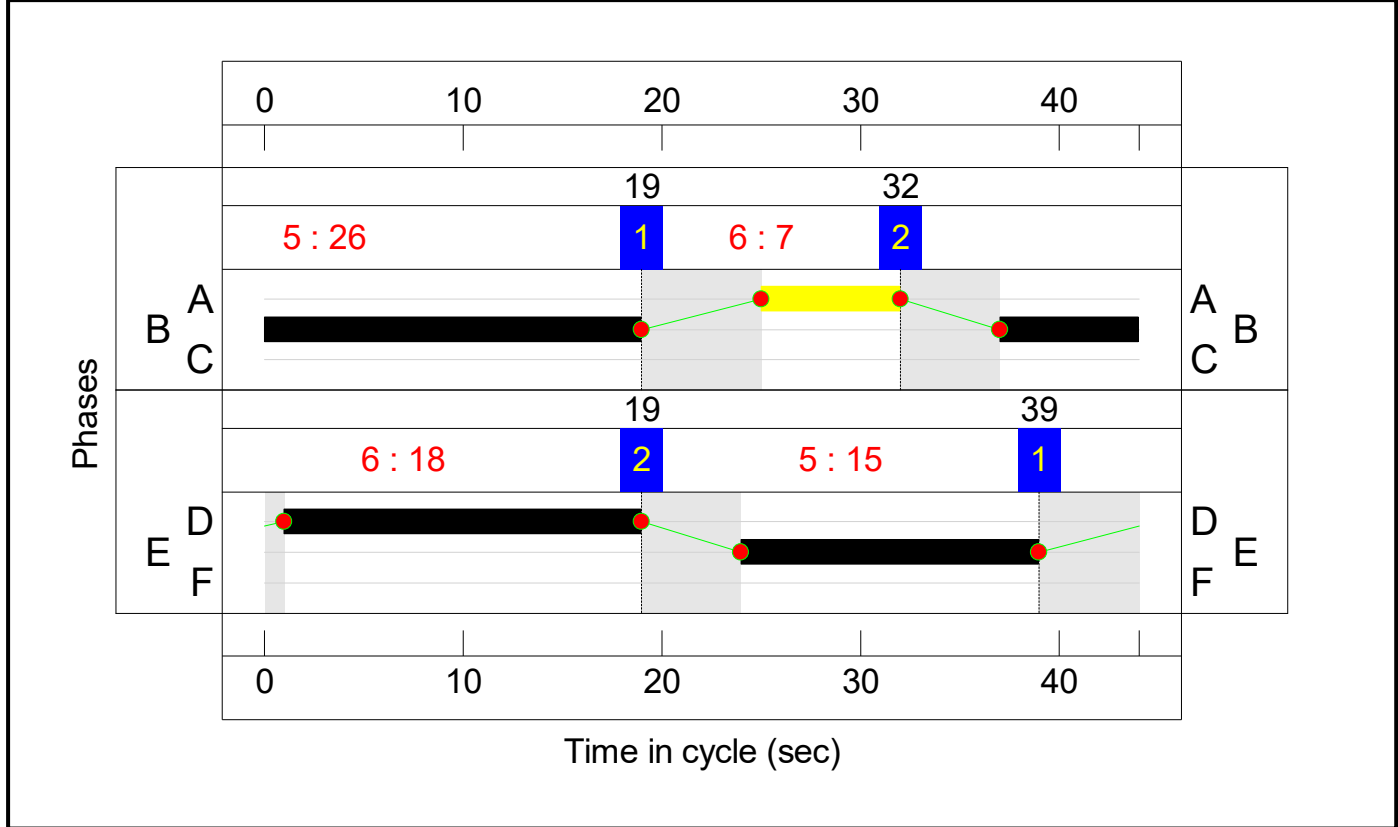
**Stage Stream: 1**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 7  | 26 |
| Change Point | 19 | 32 |

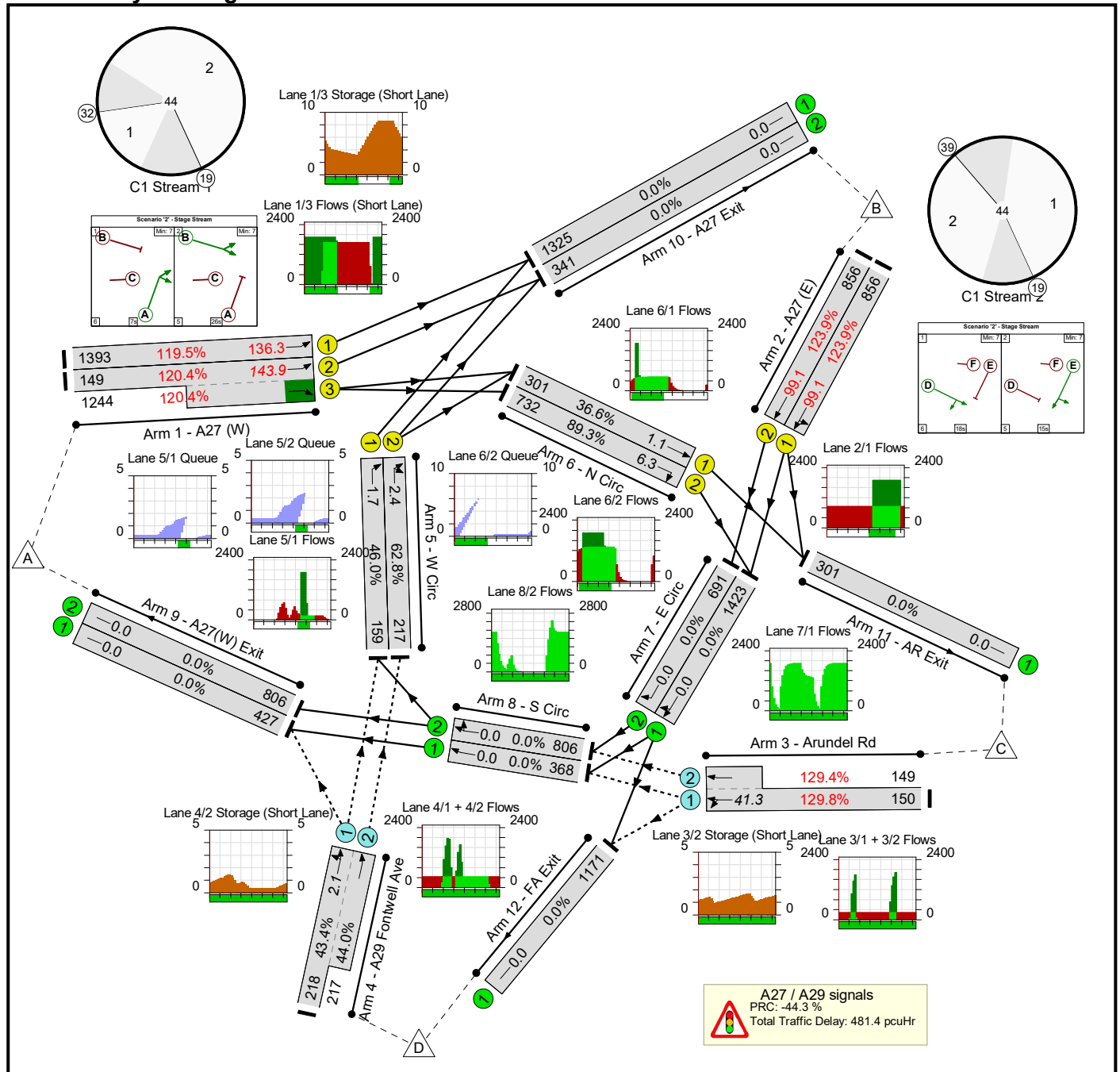
**Stage Stream: 2**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 39 | 19 |

Signal Timings Diagram



## Network Layout Diagram



Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>129.8%</b>  |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>129.8%</b>  |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1393              | 1900              | 1166           | 119.5%         |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1393              | 1900:1900         | 124+1033       | 120.4 : 120.4% |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 856               | 1900              | 691            | 123.9%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 856               | 1900              | 691            | 123.9%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 299               | 1900:1900         | 116+115        | 129.8 : 129.4% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 435               | 1900:1900         | 502+493        | 43.4 : 44.0%   |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 159               | 1900              | 345            | 46.0%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 217               | 1900              | 345            | 62.8%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 362               | 1900              | 820            | 36.6%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 882               | 1900              | 820            | 89.3%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1738              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 856               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 460               | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1005              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 519               | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1005              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1552              | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 366               | Inf               | Inf            | 0.0%           |

## Full Input Data And Results

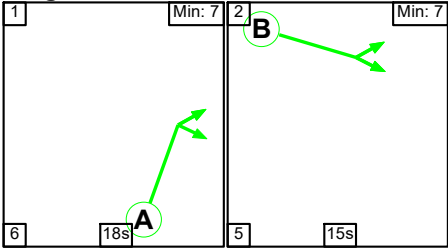
| 11/1                                                    | AR Exit        | U             | N/A                   | N/A                          | -                           |                       | -                            | -                                  | -                     | 362                       | Inf                              | Inf                        | 0.0%                 |
|---------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| 12/1                                                    | FA Exit        | U             | N/A                   | N/A                          | -                           |                       | -                            | -                                  | -                     | 1428                      | Inf                              | Inf                        | 0.0%                 |
| Item                                                    | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr)   | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
| Network: A27 / A29 Signal Roundabout - Fontwell Western | -              | -             | 1331                  | 0                            | 0                           | 37.0                  | 444.4                        | 0.0                                | 481.4                 | -                         | -                                | -                          | -                    |
| A27 / A29 signals                                       | -              | -             | 1331                  | 0                            | 0                           | 37.0                  | 444.4                        | 0.0                                | 481.4                 | -                         | -                                | -                          | -                    |
| 1/1                                                     | 1393           | 1166          | -                     | -                            | -                           | 8.3                   | 116.5                        | -                                  | 124.9                 | 322.7                     | 19.8                             | 116.5                      | 136.3                |
| 1/2+1/3                                                 | 1393           | 1157          | -                     | -                            | -                           | 9.0                   | 121.1                        | -                                  | 130.1<br>(13.7+116.4) | 336.1<br>(330.7:336.8)    | 22.7                             | 121.1                      | 143.9                |
| 2/1                                                     | 856            | 691           | -                     | -                            | -                           | 7.4                   | 85.1                         | -                                  | 92.4                  | 388.7                     | 14.0                             | 85.1                       | 99.1                 |
| 2/2                                                     | 856            | 691           | -                     | -                            | -                           | 7.4                   | 85.1                         | -                                  | 92.4                  | 388.7                     | 14.0                             | 85.1                       | 99.1                 |
| 3/1+3/2                                                 | 299            | 231           | 461                   | 0                            | 0                           | 2.5                   | 36.2                         | -                                  | 38.7<br>(19.5+19.2)   | 465.9<br>(468.2:463.7)    | 5.1                              | 36.2                       | 41.3                 |
| 4/1+4/2                                                 | 435            | 435           | 870                   | 0                            | 0                           | 0.7                   | 0.4                          | -                                  | 1.0 (0.5+0.5)         | 8.6 (8.5:8.8)             | 1.7                              | 0.4                        | 2.1                  |
| 5/1                                                     | 159            | 159           | -                     | -                            | -                           | 0.5                   | 0.0                          | -                                  | 0.5                   | 10.8                      | 1.7                              | 0.0                        | 1.7                  |
| 5/2                                                     | 217            | 217           | -                     | -                            | -                           | 0.7                   | 0.0                          | -                                  | 0.7                   | 11.1                      | 2.4                              | 0.0                        | 2.4                  |
| 6/1                                                     | 301            | 301           | -                     | -                            | -                           | 0.2                   | 0.0                          | -                                  | 0.2                   | 2.7                       | 1.1                              | 0.0                        | 1.1                  |
| 6/2                                                     | 732            | 732           | -                     | -                            | -                           | 0.5                   | 0.0                          | -                                  | 0.5                   | 2.6                       | 6.3                              | 0.0                        | 6.3                  |
| 7/1                                                     | 1423           | 1423          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                     | 691            | 691           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                     | 368            | 368           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                     | 806            | 806           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                     | 427            | 427           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                     | 806            | 806           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                    | 1325           | 1325          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                    | 341            | 341           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                    | 301            | 301           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                    | 1171           | 1171          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

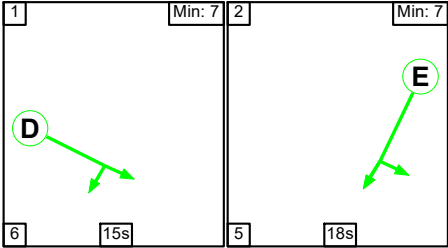
|    |           |                             |       |                                          |        |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|--------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | -33.8 | Total Delay for Signalled Lanes (pcuHr): | 256.08 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -37.7 | Total Delay for Signalled Lanes (pcuHr): | 185.62 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -44.3 | Total Delay Over All Lanes(pcuHr):       | 481.44 |                 |    |

Stage Sequence Diagram

Stage Stream: 1



Stage Stream: 2



Stage Timings

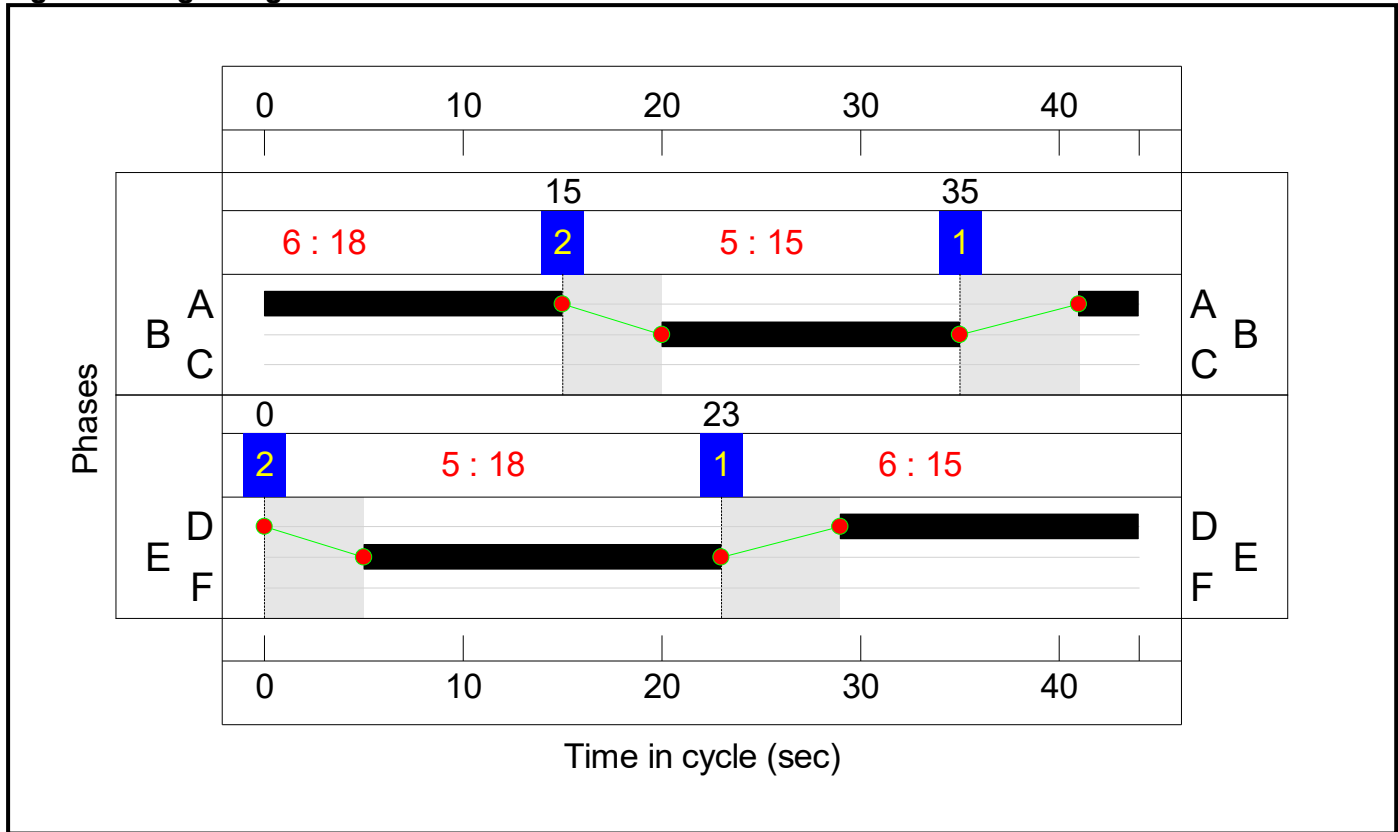
Stage Stream: 1

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 35 | 15 |

Stage Stream: 2

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 15 | 18 |
| Change Point | 23 | 0  |

Signal Timings Diagram





Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>106.2%</b>  |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>106.2%</b>  |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 586               | 1900              | 691            | 84.8%          |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 1185              | 1900:1900         | 691+691        | 84.8 : 86.7%   |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 829               | 1900              | 820            | 101.0%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 828               | 1900              | 820            | 100.9%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 473               | 1900:1900         | 223+223        | 106.2 : 105.7% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 415               | 1900:1900         | 235+230        | 88.5 : 90.0%   |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 171               | 1900              | 820            | 20.8%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 207               | 1900              | 820            | 25.2%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 144               | 1900              | 691            | 20.8%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 455               | 1900              | 691            | 65.9%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1284              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 828               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1049              | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1064              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1086              | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1064              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 757               | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 793               | Inf               | Inf            | 0.0%           |

Full Input Data And Results

|      |         |   |     |     |   |  |   |   |   |     |     |     |      |
|------|---------|---|-----|-----|---|--|---|---|---|-----|-----|-----|------|
| 11/1 | AR Exit | U | N/A | N/A | - |  | - | - | - | 144 | Inf | Inf | 0.0% |
| 12/1 | FA Exit | U | N/A | N/A | - |  | - | - | - | 472 | Inf | Inf | 0.0% |

## Full Input Data And Results

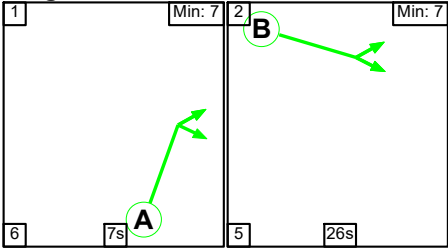
| Item                                                           | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr) | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
|----------------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|---------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -              | -             | <b>1723</b>           | <b>0</b>                     | <b>0</b>                    | <b>16.9</b>           | <b>61.7</b>                  | <b>0.0</b>                         | <b>78.5</b>         | -                         | -                                | -                          | -                    |
| <b>A27 / A29 signals</b>                                       | -              | -             | <b>1723</b>           | <b>0</b>                     | <b>0</b>                    | <b>16.9</b>           | <b>61.7</b>                  | <b>0.0</b>                         | <b>78.5</b>         | -                         | -                                | -                          | -                    |
| 1/1                                                            | 586            | 586           | -                     | -                            | -                           | 2.1                   | 2.7                          | -                                  | 4.8                 | 29.2                      | 6.5                              | 2.7                        | 9.2                  |
| 1/2+1/3                                                        | 1185           | 1185          | -                     | -                            | -                           | 4.3                   | 2.9                          | -                                  | 7.2 (3.5+3.6)       | 21.8 (21.8:21.9)          | 6.7                              | 2.9                        | 9.6                  |
| 2/1                                                            | 829            | 820           | -                     | -                            | -                           | 3.0                   | 16.7                         | -                                  | 19.7                | 85.7                      | 10.2                             | 16.7                       | 26.9                 |
| 2/2                                                            | 828            | 820           | -                     | -                            | -                           | 3.0                   | 16.4                         | -                                  | 19.4                | 84.4                      | 10.2                             | 16.4                       | 26.6                 |
| 3/1+3/2                                                        | 473            | 446           | 893                   | 0                            | 0                           | 2.5                   | 19.4                         | -                                  | 21.8 (11.2+10.7)    | 166.2 (169.8:162.6)       | 7.8                              | 19.4                       | 27.1                 |
| 4/1+4/2                                                        | 415            | 415           | 830                   | 0                            | 0                           | 1.5                   | 3.6                          | -                                  | 5.1 (2.5+2.5)       | 44.1 (44.0:44.2)          | 2.4                              | 3.6                        | 6.0                  |
| 5/1                                                            | 171            | 171           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.6                       | 0.1                              | 0.0                        | 0.1                  |
| 5/2                                                            | 207            | 207           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.6                       | 0.1                              | 0.0                        | 0.1                  |
| 6/1                                                            | 144            | 144           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.8                       | 0.6                              | 0.0                        | 0.6                  |
| 6/2                                                            | 455            | 455           | -                     | -                            | -                           | 0.4                   | 0.0                          | -                                  | 0.4                 | 3.3                       | 5.4                              | 0.0                        | 5.4                  |
| 7/1                                                            | 1275           | 1275          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                            | 820            | 820           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                            | 1029           | 1029          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                            | 1044           | 1044          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                            | 1066           | 1066          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                            | 1044           | 1044          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                           | 757            | 757           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                           | 793            | 793           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                           | 144            | 144           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                           | 470            | 470           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

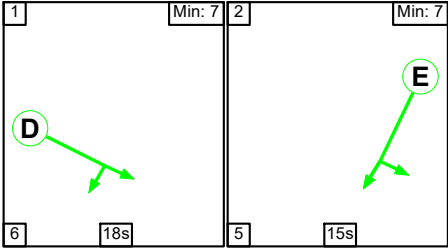
|    |           |                             |       |                                          |       |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|-------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | 3.8   | Total Delay for Signalled Lanes (pcuHr): | 12.00 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -12.3 | Total Delay for Signalled Lanes (pcuHr): | 39.61 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -18.0 | Total Delay Over All Lanes(pcuHr):       | 78.54 |                 |    |

**Stage Sequence Diagram**

**Stage Stream: 1**



**Stage Stream: 2**



**Stage Timings**

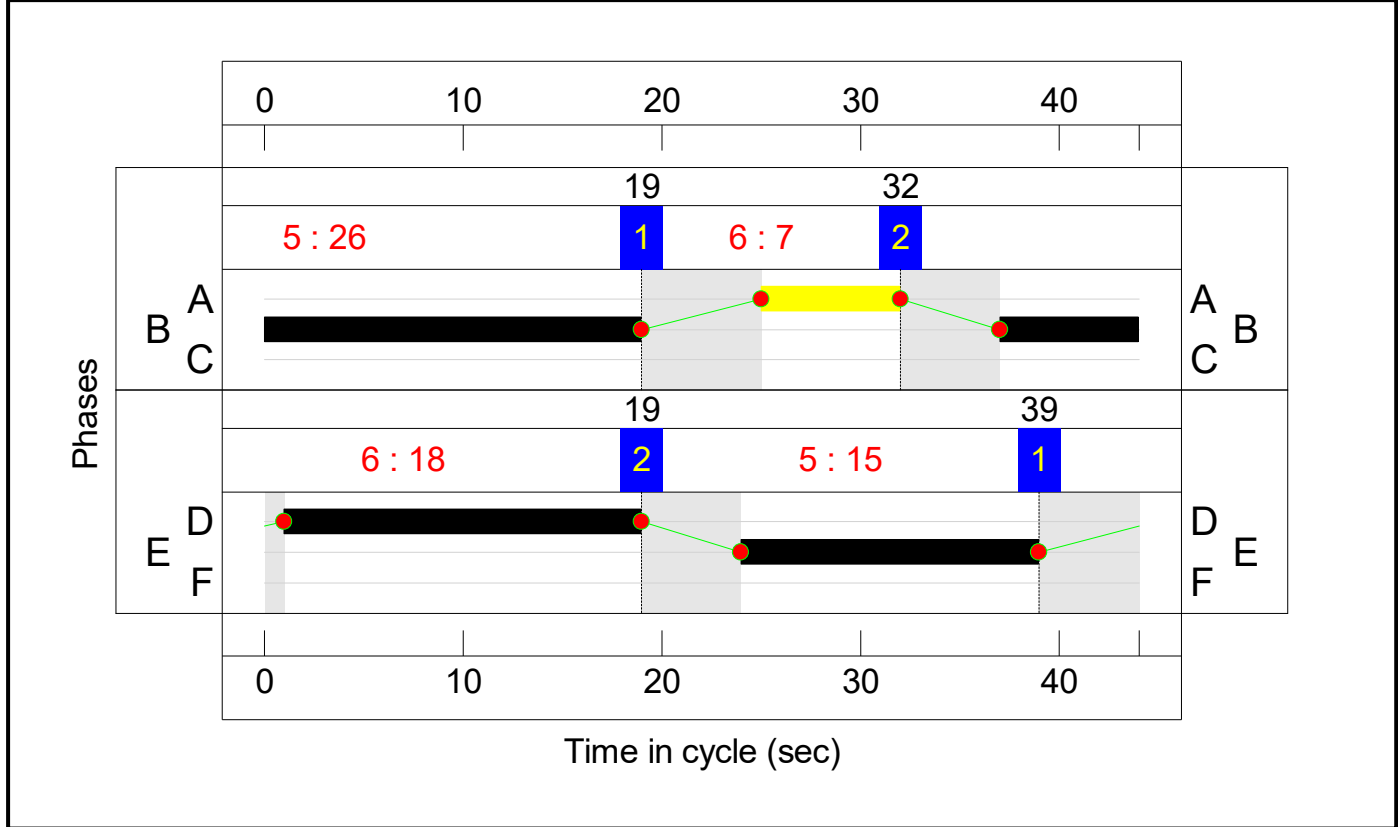
**Stage Stream: 1**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 7  | 26 |
| Change Point | 19 | 32 |

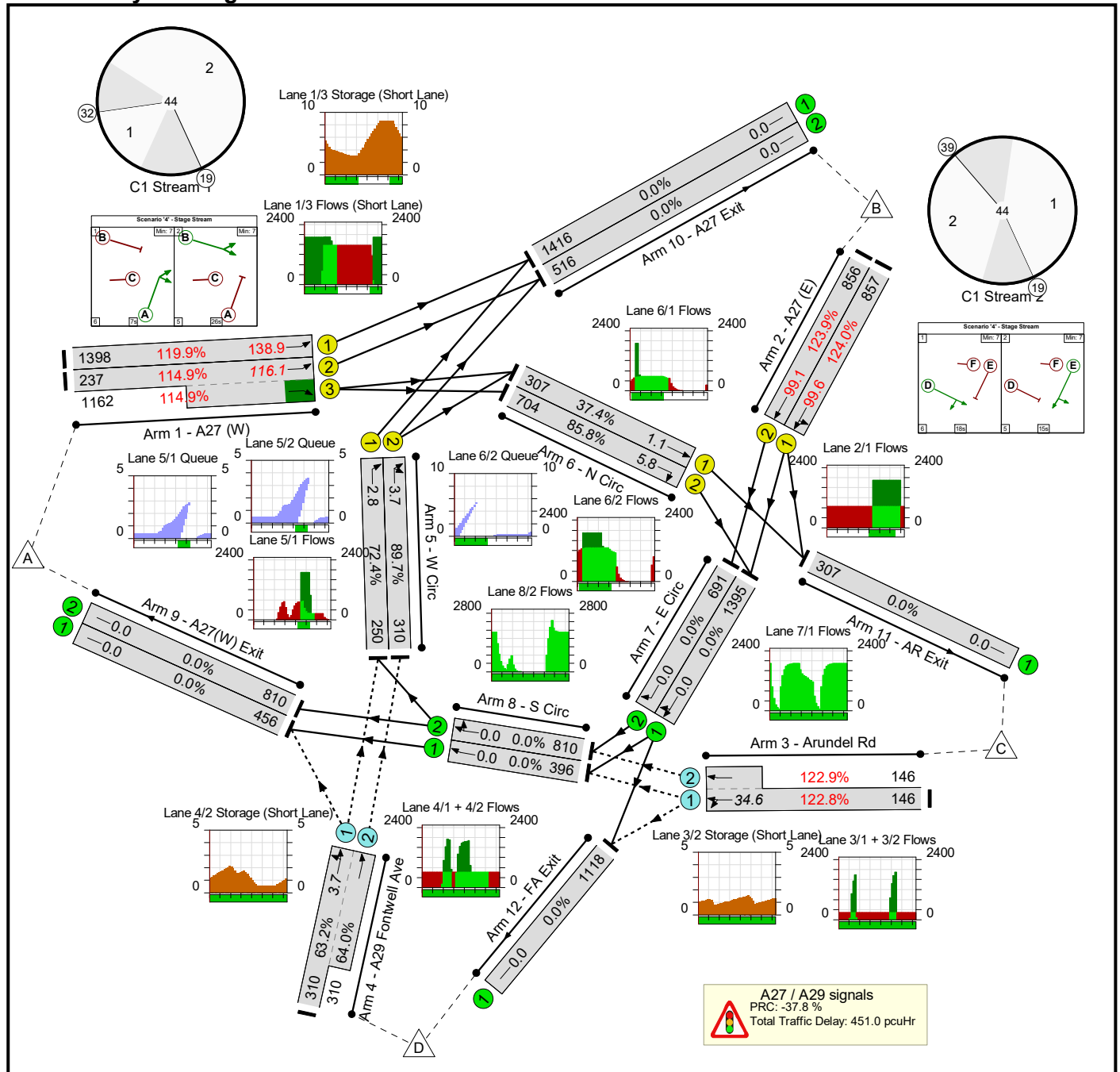
**Stage Stream: 2**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 39 | 19 |

Signal Timings Diagram



## Network Layout Diagram



Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 124.0%         |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 124.0%         |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1398              | 1900              | 1166           | 119.9%         |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1399              | 1900:1900         | 206+1011       | 114.9 : 114.9% |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 857               | 1900              | 691            | 124.0%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 856               | 1900              | 691            | 123.9%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 292               | 1900:1900         | 119+119        | 122.8 : 122.9% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 620               | 1900:1900         | 491+485        | 63.2 : 64.0%   |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 250               | 1900              | 345            | 72.4%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 310               | 1900              | 345            | 89.7%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 353               | 1900              | 820            | 37.4%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 809               | 1900              | 820            | 85.8%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1666              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 856               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 482               | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1002              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 542               | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1002              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1648              | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 547               | Inf               | Inf            | 0.0%           |

Full Input Data And Results

|      |         |   |     |     |   |  |   |   |   |      |     |     |      |
|------|---------|---|-----|-----|---|--|---|---|---|------|-----|-----|------|
| 11/1 | AR Exit | U | N/A | N/A | - |  | - | - | - | 353  | Inf | Inf | 0.0% |
| 12/1 | FA Exit | U | N/A | N/A | - |  | - | - | - | 1330 | Inf | Inf | 0.0% |

## Full Input Data And Results

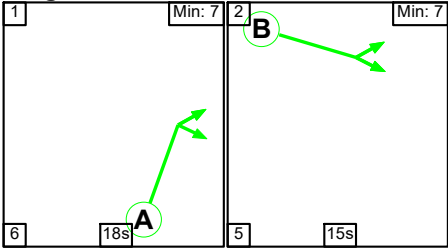
| Item                                                           | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr)  | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
|----------------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|----------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -              | -             | <b>1715</b>           | <b>0</b>                     | <b>0</b>                    | <b>36.3</b>           | <b>414.7</b>                 | <b>0.0</b>                         | <b>451.0</b>         | -                         | -                                | -                          | -                    |
| <b>A27 / A29 signals</b>                                       | -              | -             | <b>1715</b>           | <b>0</b>                     | <b>0</b>                    | <b>36.3</b>           | <b>414.7</b>                 | <b>0.0</b>                         | <b>451.0</b>         | -                         | -                                | -                          | -                    |
| 1/1                                                            | 1398           | 1166          | -                     | -                            | -                           | 8.5                   | 119.0                        | -                                  | 127.4                | 328.2                     | 19.9                             | 119.0                      | 138.9                |
| 1/2+1/3                                                        | 1399           | 1217          | -                     | -                            | -                           | 7.5                   | 94.6                         | -                                  | 102.1<br>(17.0+85.2) | 262.8<br>(257.8+263.9)    | 21.4                             | 94.6                       | 116.1                |
| 2/1                                                            | 857            | 691           | -                     | -                            | -                           | 7.4                   | 85.5                         | -                                  | 93.0                 | 390.5                     | 14.1                             | 85.5                       | 99.6                 |
| 2/2                                                            | 856            | 691           | -                     | -                            | -                           | 7.4                   | 85.1                         | -                                  | 92.4                 | 388.7                     | 14.0                             | 85.1                       | 99.1                 |
| 3/1+3/2                                                        | 292            | 238           | 475                   | 0                            | 0                           | 2.1                   | 29.6                         | -                                  | 31.7<br>(15.8+15.9)  | 390.6<br>(389.4+391.7)    | 4.9                              | 29.6                       | 34.6                 |
| 4/1+4/2                                                        | 620            | 620           | 1240                  | 0                            | 0                           | 1.3                   | 0.9                          | -                                  | 2.1<br>(1.1+1.1)     | 12.3<br>(12.2+12.4)       | 2.8                              | 0.9                        | 3.7                  |
| 5/1                                                            | 250            | 250           | -                     | -                            | -                           | 0.7                   | 0.0                          | -                                  | 0.7                  | 9.8                       | 2.8                              | 0.0                        | 2.8                  |
| 5/2                                                            | 310            | 310           | -                     | -                            | -                           | 0.9                   | 0.0                          | -                                  | 0.9                  | 10.2                      | 3.7                              | 0.0                        | 3.7                  |
| 6/1                                                            | 307            | 307           | -                     | -                            | -                           | 0.2                   | 0.0                          | -                                  | 0.2                  | 2.4                       | 1.1                              | 0.0                        | 1.1                  |
| 6/2                                                            | 704            | 704           | -                     | -                            | -                           | 0.5                   | 0.0                          | -                                  | 0.5                  | 2.4                       | 5.8                              | 0.0                        | 5.8                  |
| 7/1                                                            | 1395           | 1395          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                            | 691            | 691           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                            | 396            | 396           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                            | 810            | 810           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                            | 456            | 456           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                            | 810            | 810           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                           | 1416           | 1416          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                           | 516            | 516           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                           | 307            | 307           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                           | 1118           | 1118          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

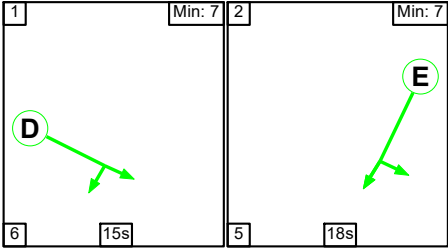
|    |           |                             |       |                                          |        |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|--------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | -33.2 | Total Delay for Signalled Lanes (pcuHr): | 231.14 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -37.8 | Total Delay for Signalled Lanes (pcuHr): | 186.06 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -37.8 | Total Delay Over All Lanes(pcuHr):       | 451.00 |                 |    |

**Stage Sequence Diagram**

**Stage Stream: 1**



**Stage Stream: 2**



**Stage Timings**

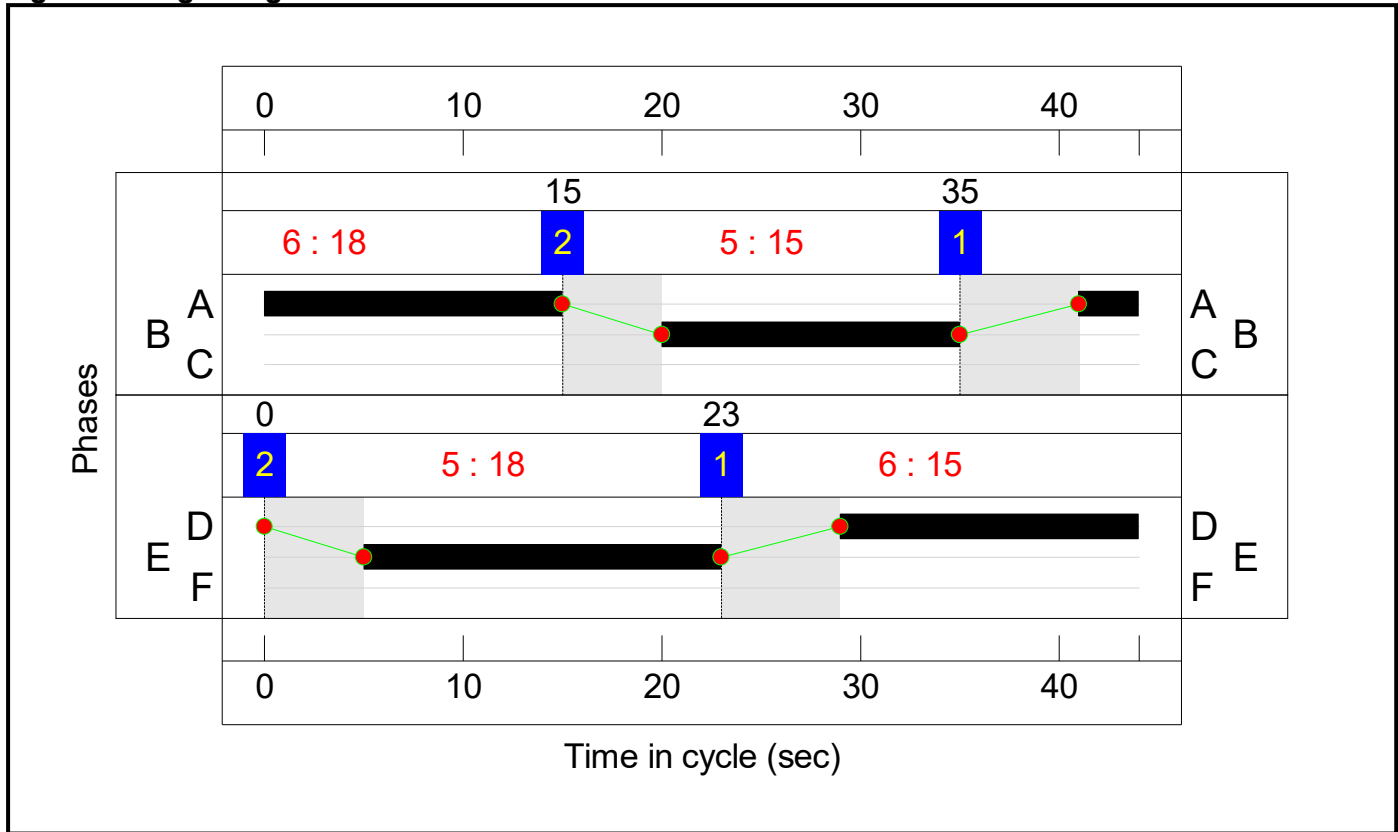
**Stage Stream: 1**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 35 | 15 |

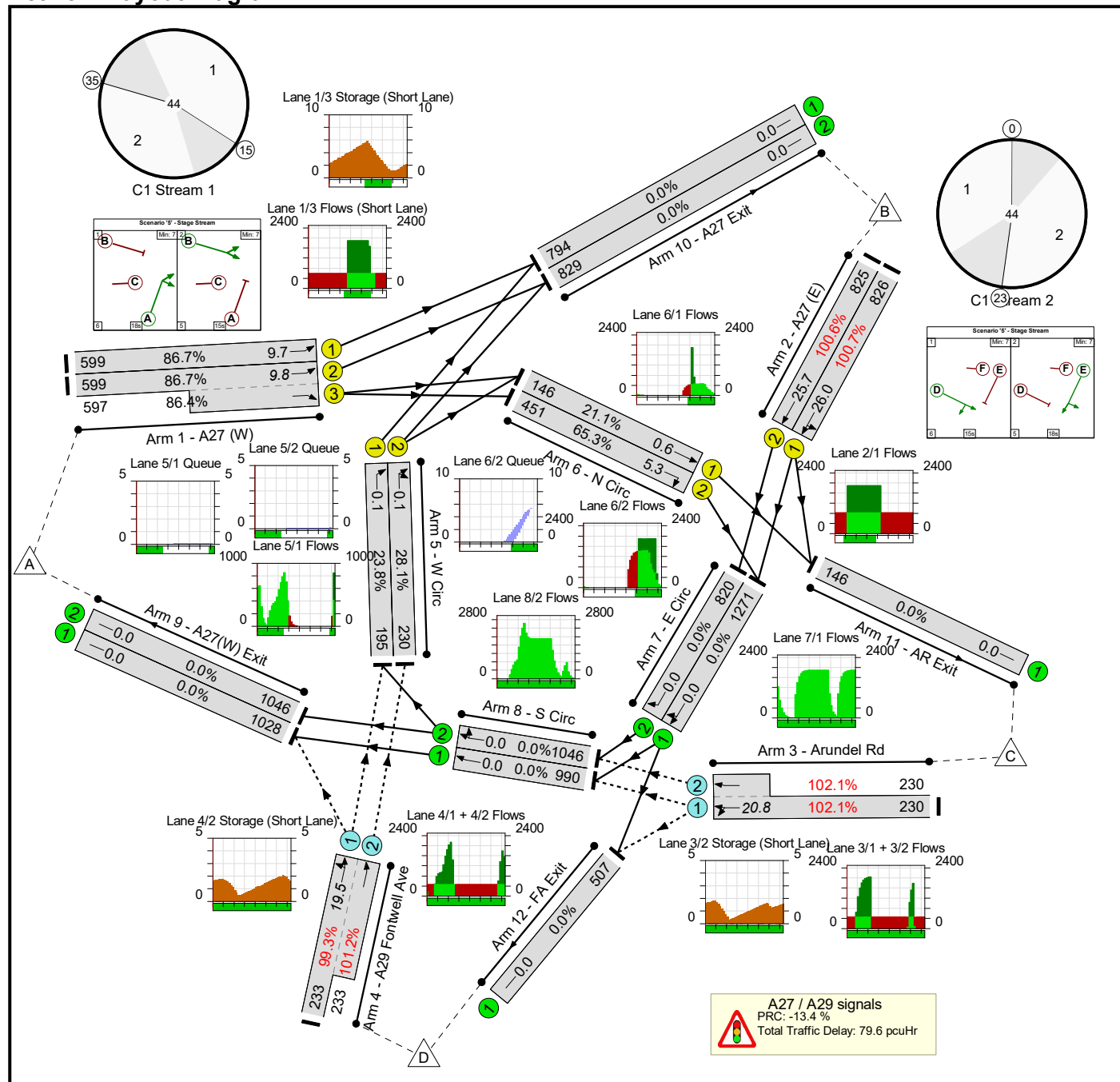
**Stage Stream: 2**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 15 | 18 |
| Change Point | 23 | 0  |

Signal Timings Diagram



## Network Layout Diagram



Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | <b>N/A</b>        | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>102.1%</b>  |
| <b>A27 / A29 signals</b>                                       | -                           | -         | <b>N/A</b>        | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>102.1%</b>  |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 599               | 1900              | 691            | 86.7%          |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 1196              | 1900:1900         | 691+691        | 86.7 : 86.4%   |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 826               | 1900              | 820            | 100.7%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 825               | 1900              | 820            | 100.6%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 460               | 1900:1900         | 225+225        | 102.1 : 102.1% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 466               | 1900:1900         | 235+230        | 99.3 : 101.2%  |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 195               | 1900              | 820            | 23.8%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 233               | 1900              | 820            | 28.1%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 146               | 1900              | 691            | 21.1%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 451               | 1900              | 691            | 65.3%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1277              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 825               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 999               | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1055              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1037              | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1055              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 794               | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 832               | Inf               | Inf            | 0.0%           |
| 11/1                                                           | AR Exit                     | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 146               | Inf               | Inf            | 0.0%           |

## Full Input Data And Results

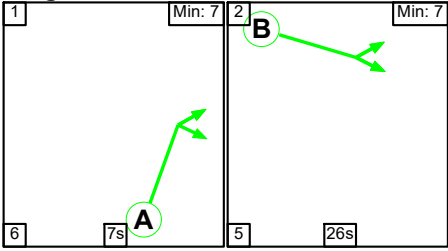
| 12/1                                                           | FA Exit        | U             | N/A                   | N/A                          | -                           |                       | -                            | -                                  | -                   | 508                       | Inf                              | Inf                        | 0.0%                 |
|----------------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|---------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| Item                                                           | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr) | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -              | -             | 1828                  | 0                            | 0                           | 16.8                  | 62.8                         | 0.0                                | 79.6                | -                         | -                                | -                          | -                    |
| <b>A27 / A29 signals</b>                                       | -              | -             | 1828                  | 0                            | 0                           | 16.8                  | 62.8                         | 0.0                                | 79.6                | -                         | -                                | -                          | -                    |
| 1/1                                                            | 599            | 599           | -                     | -                            | -                           | 2.2                   | 3.1                          | -                                  | 5.2                 | 31.4                      | 6.7                              | 3.1                        | 9.7                  |
| 1/2+1/3                                                        | 1196           | 1196          | -                     | -                            | -                           | 4.3                   | 3.1                          | -                                  | 7.4<br>(3.7+3.7)    | 22.4<br>(22.4:22.4)       | 6.7                              | 3.1                        | 9.8                  |
| 2/1                                                            | 826            | 820           | -                     | -                            | -                           | 3.0                   | 15.8                         | -                                  | 18.8                | 81.9                      | 10.2                             | 15.8                       | 26.0                 |
| 2/2                                                            | 825            | 820           | -                     | -                            | -                           | 3.0                   | 15.5                         | -                                  | 18.5                | 80.7                      | 10.1                             | 15.5                       | 25.7                 |
| 3/1+3/2                                                        | 460            | 451           | 901                   | 0                            | 0                           | 2.0                   | 13.3                         | -                                  | 15.3<br>(7.6+7.7)   | 119.9<br>(119.6:120.3)    | 7.5                              | 13.3                       | 20.8                 |
| 4/1+4/2                                                        | 466            | 463           | 926                   | 0                            | 0                           | 1.8                   | 11.9                         | -                                  | 13.7<br>(6.1+7.6)   | 106.2<br>(94.7:117.7)     | 7.5                              | 11.9                       | 19.5                 |
| 5/1                                                            | 195            | 195           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.8                       | 0.1                              | 0.0                        | 0.1                  |
| 5/2                                                            | 230            | 230           | -                     | -                            | -                           | 0.1                   | 0.0                          | -                                  | 0.1                 | 0.8                       | 0.1                              | 0.0                        | 0.1                  |
| 6/1                                                            | 146            | 146           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.8                       | 0.6                              | 0.0                        | 0.6                  |
| 6/2                                                            | 451            | 451           | -                     | -                            | -                           | 0.4                   | 0.0                          | -                                  | 0.4                 | 3.2                       | 5.3                              | 0.0                        | 5.3                  |
| 7/1                                                            | 1271           | 1271          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                            | 820            | 820           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                            | 990            | 990           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                            | 1046           | 1046          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                            | 1028           | 1028          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                            | 1046           | 1046          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                           | 794            | 794           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                           | 829            | 829           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                           | 146            | 146           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                           | 507            | 507           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

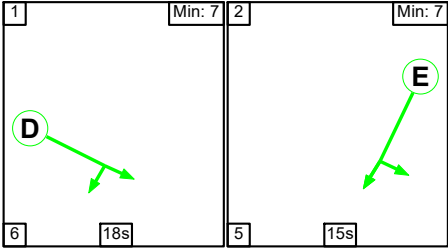
|    |           |                             |       |                                          |       |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|-------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | 3.8   | Total Delay for Signalled Lanes (pcuHr): | 12.75 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -11.9 | Total Delay for Signalled Lanes (pcuHr): | 37.74 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -13.4 | Total Delay Over All Lanes(pcuHr):       | 79.56 |                 |    |

Stage Sequence Diagram

Stage Stream: 1



Stage Stream: 2



Stage Timings

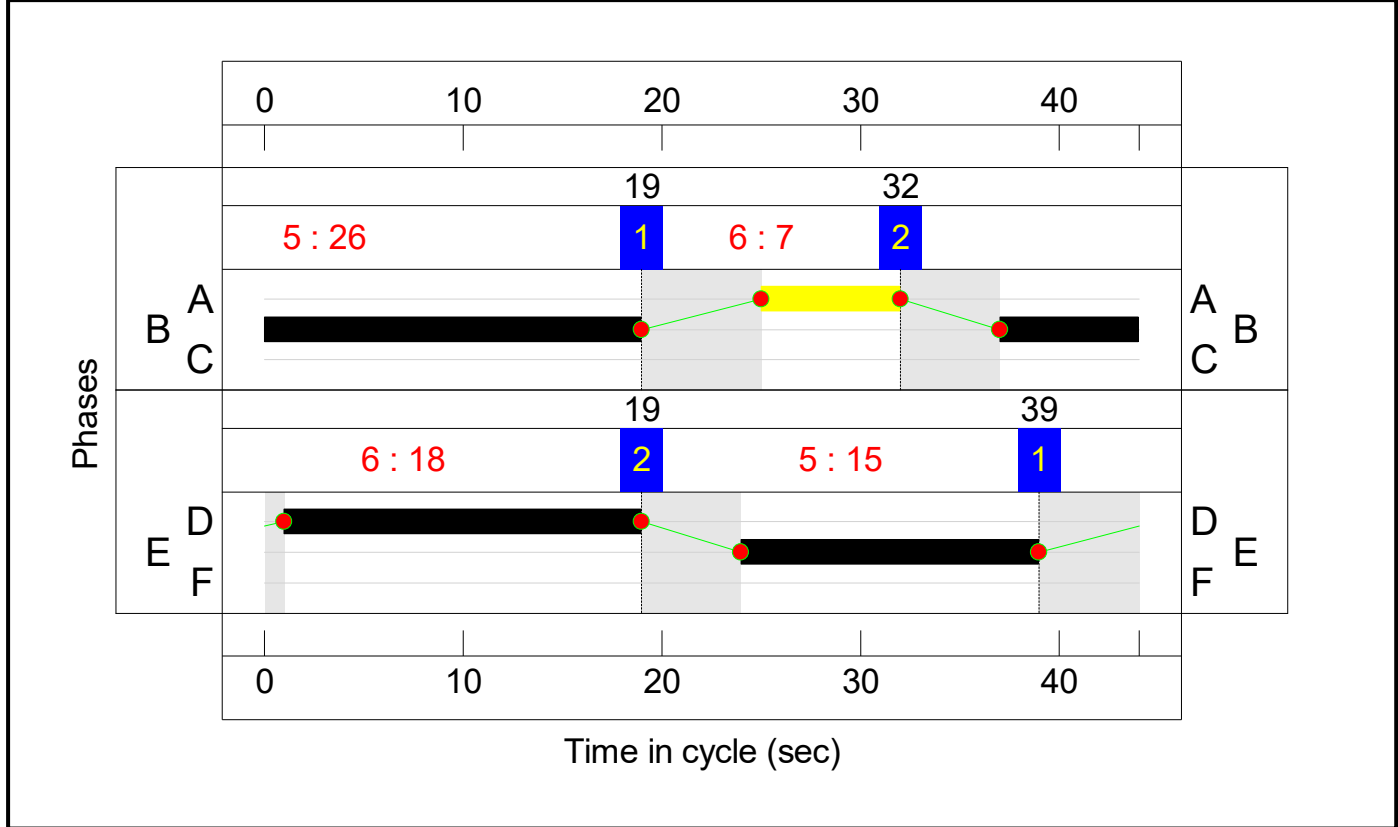
Stage Stream: 1

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 7  | 26 |
| Change Point | 19 | 32 |

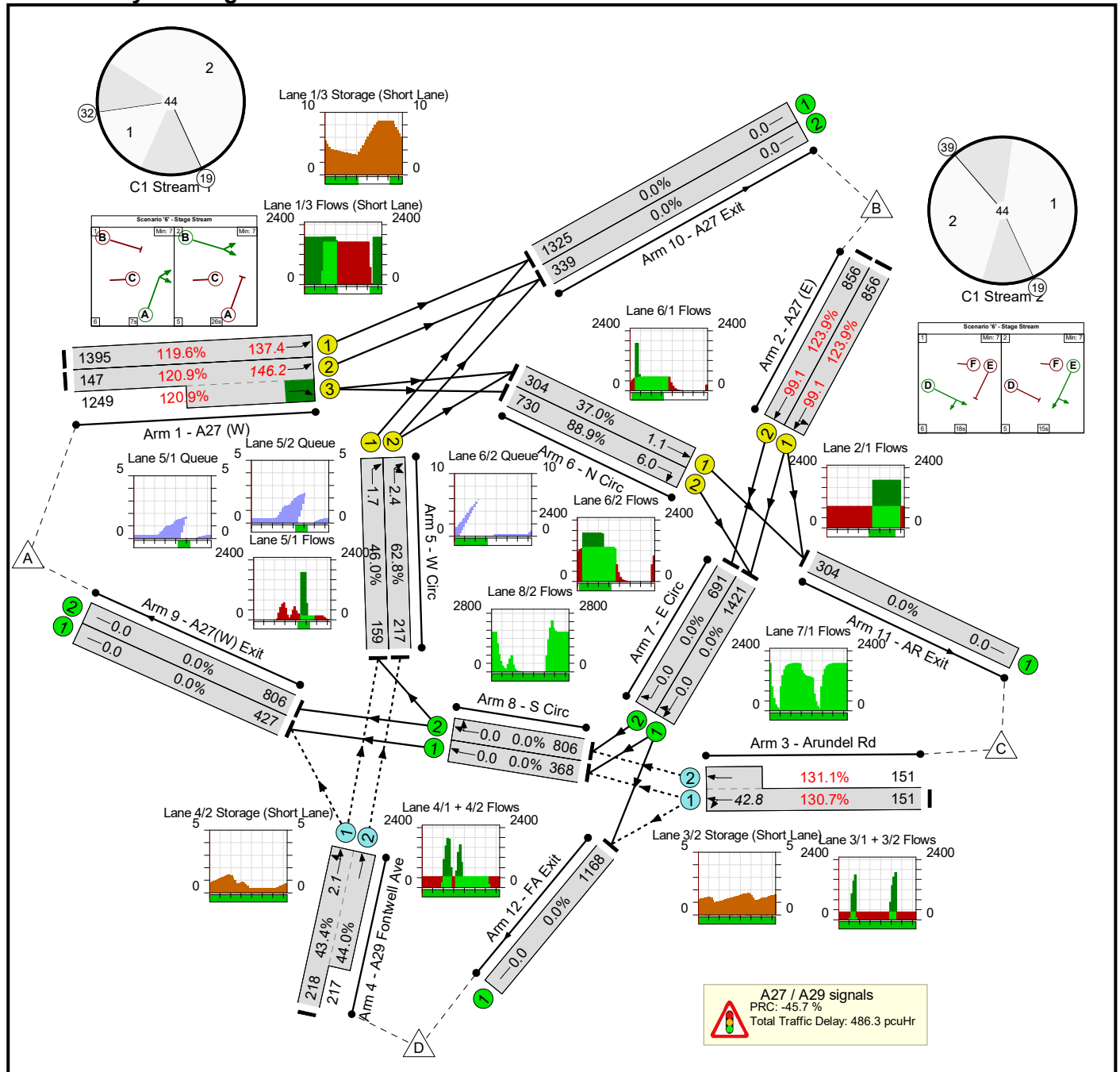
Stage Stream: 2

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 39 | 19 |

Signal Timings Diagram



## Network Layout Diagram



Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 131.1%         |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 131.1%         |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1395              | 1900              | 1166           | 119.6%         |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1396              | 1900:1900         | 122+1033       | 120.9 : 120.9% |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 856               | 1900              | 691            | 123.9%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 856               | 1900              | 691            | 123.9%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 302               | 1900:1900         | 116+115        | 130.7 : 131.1% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 435               | 1900:1900         | 502+493        | 43.4 : 44.0%   |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 159               | 1900              | 345            | 46.0%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 217               | 1900              | 345            | 62.8%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 367               | 1900              | 820            | 37.0%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 882               | 1900              | 820            | 88.9%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1738              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 856               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 461               | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1007              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 520               | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1007              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1554              | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 364               | Inf               | Inf            | 0.0%           |

## Full Input Data And Results

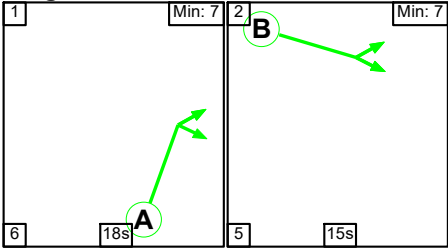
| 11/1                                                    | AR Exit        | U             | N/A                   | N/A                          | -                           |                       | -                            | -                                  | -                     | 367                       | Inf                              | Inf                        | 0.0%                 |
|---------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| 12/1                                                    | FA Exit        | U             | N/A                   | N/A                          | -                           |                       | -                            | -                                  | -                     | 1428                      | Inf                              | Inf                        | 0.0%                 |
| Item                                                    | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr)   | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
| Network: A27 / A29 Signal Roundabout - Fontwell Western | -              | -             | 1331                  | 0                            | 0                           | 37.3                  | 449.0                        | 0.0                                | 486.3                 | -                         | -                                | -                          | -                    |
| A27 / A29 signals                                       | -              | -             | 1331                  | 0                            | 0                           | 37.3                  | 449.0                        | 0.0                                | 486.3                 | -                         | -                                | -                          | -                    |
| 1/1                                                     | 1395           | 1166          | -                     | -                            | -                           | 8.4                   | 117.5                        | -                                  | 125.9                 | 324.9                     | 19.8                             | 117.5                      | 137.4                |
| 1/2+1/3                                                 | 1396           | 1155          | -                     | -                            | -                           | 9.1                   | 123.3                        | -                                  | 132.4<br>(13.7+118.7) | 341.4<br>(335.9:342.0)    | 22.9                             | 123.3                      | 146.2                |
| 2/1                                                     | 856            | 691           | -                     | -                            | -                           | 7.4                   | 85.1                         | -                                  | 92.4                  | 388.7                     | 14.0                             | 85.1                       | 99.1                 |
| 2/2                                                     | 856            | 691           | -                     | -                            | -                           | 7.4                   | 85.1                         | -                                  | 92.4                  | 388.7                     | 14.0                             | 85.1                       | 99.1                 |
| 3/1+3/2                                                 | 302            | 231           | 461                   | 0                            | 0                           | 2.5                   | 37.7                         | -                                  | 40.2<br>(20.0+20.2)   | 479.1<br>(476.5:481.7)    | 5.1                              | 37.7                       | 42.8                 |
| 4/1+4/2                                                 | 435            | 435           | 870                   | 0                            | 0                           | 0.7                   | 0.4                          | -                                  | 1.0 (0.5+0.5)         | 8.6 (8.5:8.8)             | 1.7                              | 0.4                        | 2.1                  |
| 5/1                                                     | 159            | 159           | -                     | -                            | -                           | 0.5                   | 0.0                          | -                                  | 0.5                   | 10.8                      | 1.7                              | 0.0                        | 1.7                  |
| 5/2                                                     | 217            | 217           | -                     | -                            | -                           | 0.7                   | 0.0                          | -                                  | 0.7                   | 11.1                      | 2.4                              | 0.0                        | 2.4                  |
| 6/1                                                     | 304            | 304           | -                     | -                            | -                           | 0.2                   | 0.0                          | -                                  | 0.2                   | 2.7                       | 1.1                              | 0.0                        | 1.1                  |
| 6/2                                                     | 730            | 730           | -                     | -                            | -                           | 0.5                   | 0.0                          | -                                  | 0.5                   | 2.6                       | 6.0                              | 0.0                        | 6.0                  |
| 7/1                                                     | 1421           | 1421          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                     | 691            | 691           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                     | 368            | 368           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                     | 806            | 806           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                     | 427            | 427           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                     | 806            | 806           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                    | 1325           | 1325          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                    | 339            | 339           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                    | 304            | 304           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                    | 1168           | 1168          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

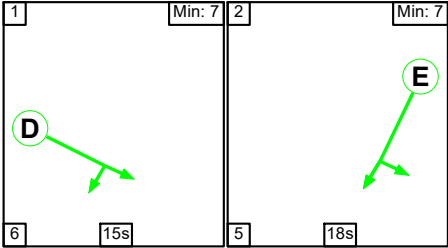
|    |           |                             |       |                                          |        |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|--------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | -34.3 | Total Delay for Signalled Lanes (pcuHr): | 259.43 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -37.7 | Total Delay for Signalled Lanes (pcuHr): | 185.62 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -45.7 | Total Delay Over All Lanes(pcuHr):       | 486.28 |                 |    |

**Stage Sequence Diagram**

**Stage Stream: 1**



**Stage Stream: 2**



**Stage Timings**

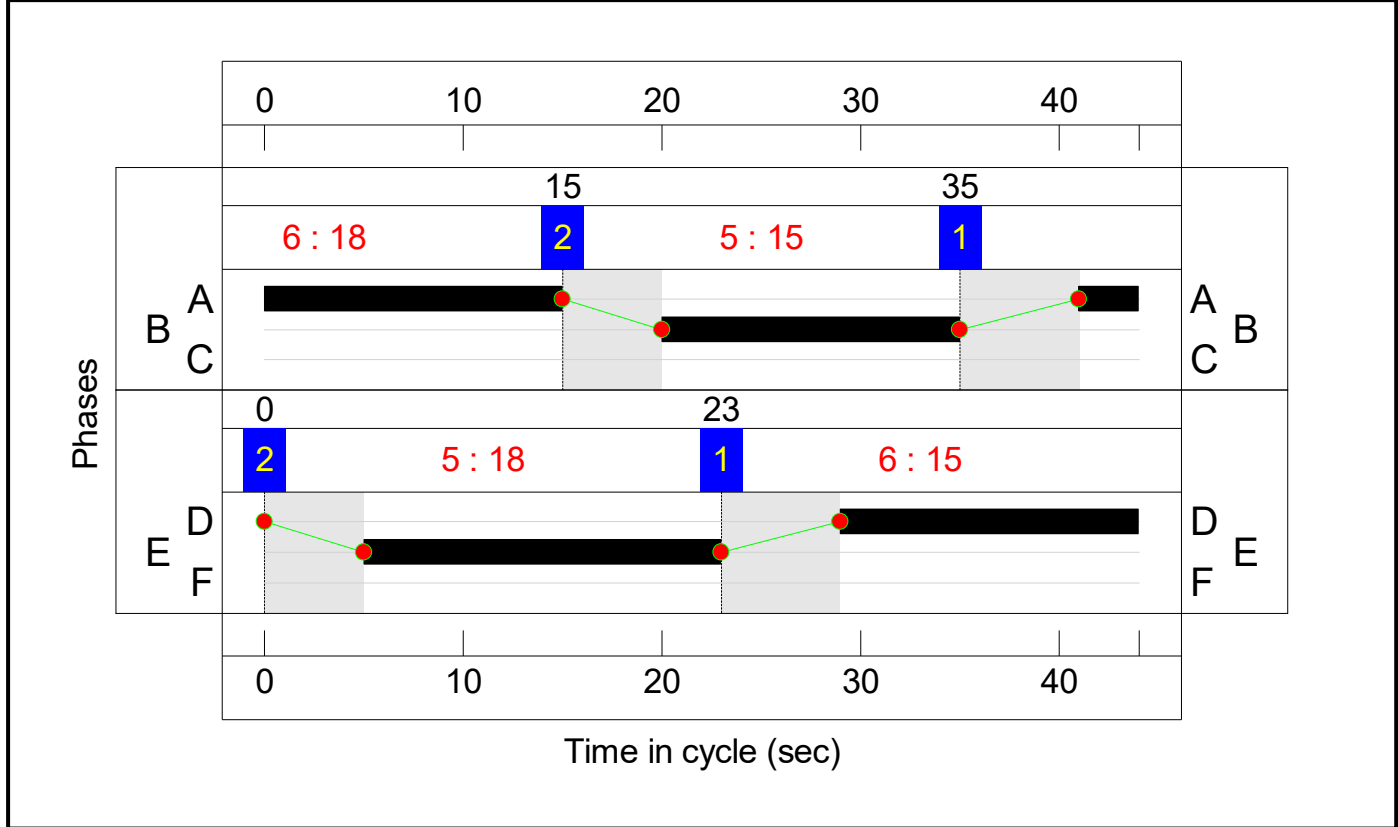
**Stage Stream: 1**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 35 | 15 |

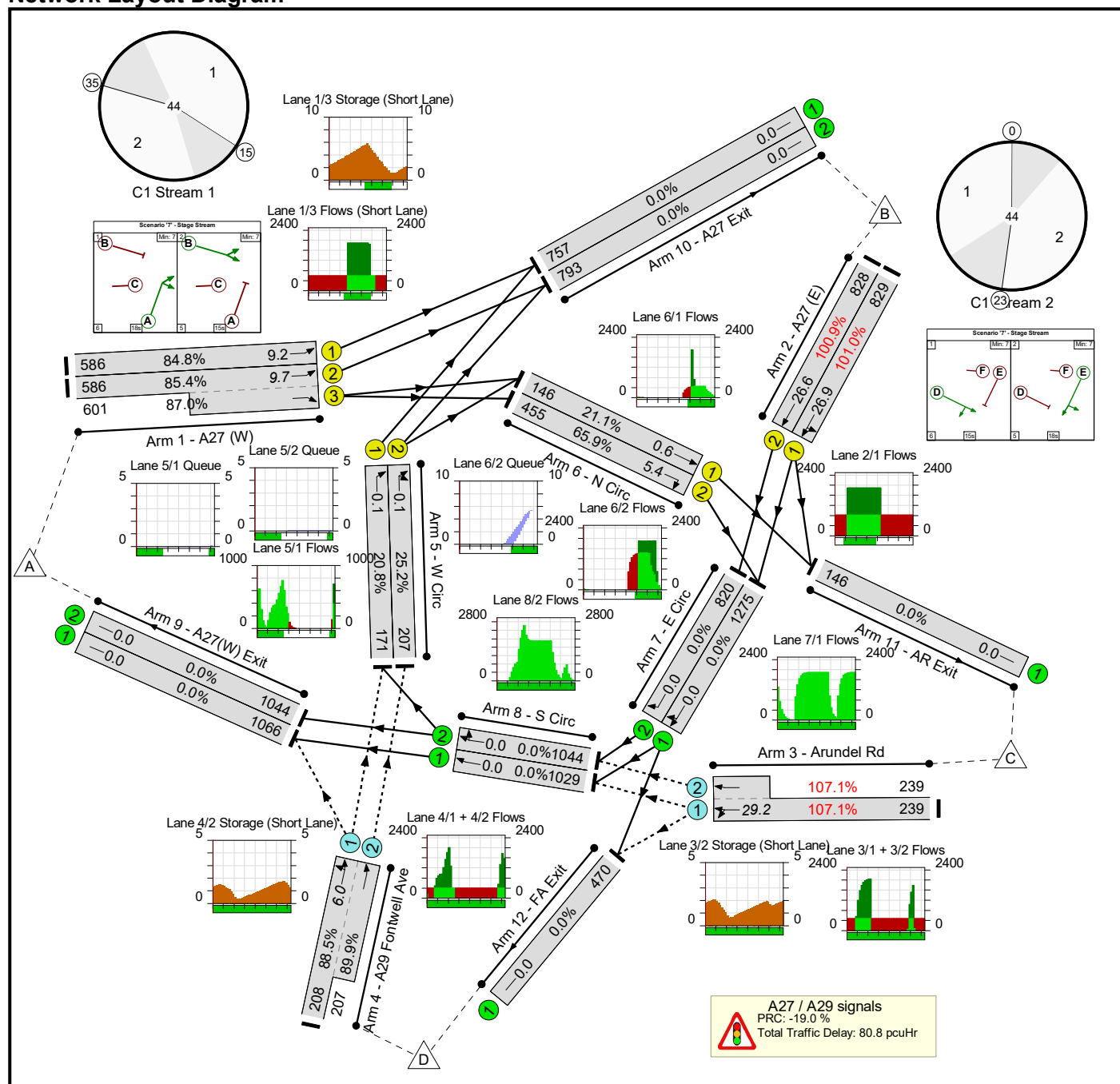
**Stage Stream: 2**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 15 | 18 |
| Change Point | 23 | 0  |

Signal Timings Diagram



## Network Layout Diagram



Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 107.1%         |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 107.1%         |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 586               | 1900              | 691            | 84.8%          |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 1187              | 1900:1900         | 687+691        | 85.4 : 87.0%   |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 829               | 1900              | 820            | 101.0%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 828               | 1900              | 820            | 100.9%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 478               | 1900:1900         | 223+223        | 107.1 : 107.1% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 415               | 1900:1900         | 235+230        | 88.5 : 89.9%   |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 171               | 1900              | 820            | 20.8%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 207               | 1900              | 820            | 25.2%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 146               | 1900              | 691            | 21.1%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 455               | 1900              | 691            | 65.9%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1284              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 828               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1051              | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1067              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1088              | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1067              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 757               | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 793               | Inf               | Inf            | 0.0%           |

Full Input Data And Results

|      |         |   |     |     |   |  |   |   |   |     |     |     |      |
|------|---------|---|-----|-----|---|--|---|---|---|-----|-----|-----|------|
| 11/1 | AR Exit | U | N/A | N/A | - |  | - | - | - | 146 | Inf | Inf | 0.0% |
| 12/1 | FA Exit | U | N/A | N/A | - |  | - | - | - | 472 | Inf | Inf | 0.0% |

## Full Input Data And Results

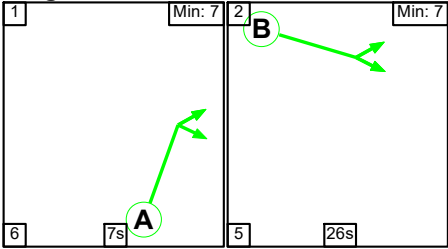
| Item                                                           | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr) | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
|----------------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|---------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -              | -             | <b>1723</b>           | <b>0</b>                     | <b>0</b>                    | <b>17.0</b>           | <b>63.8</b>                  | <b>0.0</b>                         | <b>80.8</b>         | -                         | -                                | -                          | -                    |
| <b>A27 / A29 signals</b>                                       | -              | -             | <b>1723</b>           | <b>0</b>                     | <b>0</b>                    | <b>17.0</b>           | <b>63.8</b>                  | <b>0.0</b>                         | <b>80.8</b>         | -                         | -                                | -                          | -                    |
| 1/1                                                            | 586            | 586           | -                     | -                            | -                           | 2.1                   | 2.7                          | -                                  | 4.8                 | 29.2                      | 6.5                              | 2.7                        | 9.2                  |
| 1/2+1/3                                                        | 1187           | 1187          | -                     | -                            | -                           | 4.3                   | 3.0                          | -                                  | 7.3 (3.6+3.7)       | 22.1 (22.0:22.2)          | 6.7                              | 3.0                        | 9.7                  |
| 2/1                                                            | 829            | 820           | -                     | -                            | -                           | 3.0                   | 16.7                         | -                                  | 19.7                | 85.7                      | 10.2                             | 16.7                       | 26.9                 |
| 2/2                                                            | 828            | 820           | -                     | -                            | -                           | 3.0                   | 16.4                         | -                                  | 19.4                | 84.4                      | 10.2                             | 16.4                       | 26.6                 |
| 3/1+3/2                                                        | 478            | 446           | 893                   | 0                            | 0                           | 2.6                   | 21.4                         | -                                  | 24.0 (12.0+12.0)    | 180.6 (180.5:180.8)       | 7.8                              | 21.4                       | 29.2                 |
| 4/1+4/2                                                        | 415            | 415           | 830                   | 0                            | 0                           | 1.5                   | 3.6                          | -                                  | 5.1 (2.5+2.5)       | 44.1 (44.0:44.2)          | 2.4                              | 3.6                        | 6.0                  |
| 5/1                                                            | 171            | 171           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.6                       | 0.1                              | 0.0                        | 0.1                  |
| 5/2                                                            | 207            | 207           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.6                       | 0.1                              | 0.0                        | 0.1                  |
| 6/1                                                            | 146            | 146           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.8                       | 0.6                              | 0.0                        | 0.6                  |
| 6/2                                                            | 455            | 455           | -                     | -                            | -                           | 0.4                   | 0.0                          | -                                  | 0.4                 | 3.3                       | 5.4                              | 0.0                        | 5.4                  |
| 7/1                                                            | 1275           | 1275          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                            | 820            | 820           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                            | 1029           | 1029          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                            | 1044           | 1044          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                            | 1066           | 1066          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                            | 1044           | 1044          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                           | 757            | 757           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                           | 793            | 793           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                           | 146            | 146           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                           | 470            | 470           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

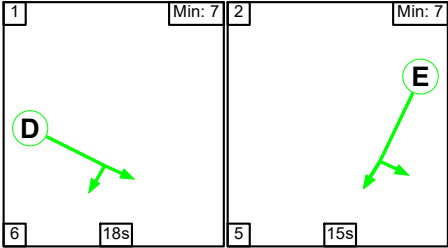
|    |           |                             |       |                                          |       |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|-------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | 3.5   | Total Delay for Signalled Lanes (pcuHr): | 12.11 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -12.3 | Total Delay for Signalled Lanes (pcuHr): | 39.61 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -19.0 | Total Delay Over All Lanes(pcuHr):       | 80.78 |                 |    |

**Stage Sequence Diagram**

**Stage Stream: 1**



**Stage Stream: 2**



**Stage Timings**

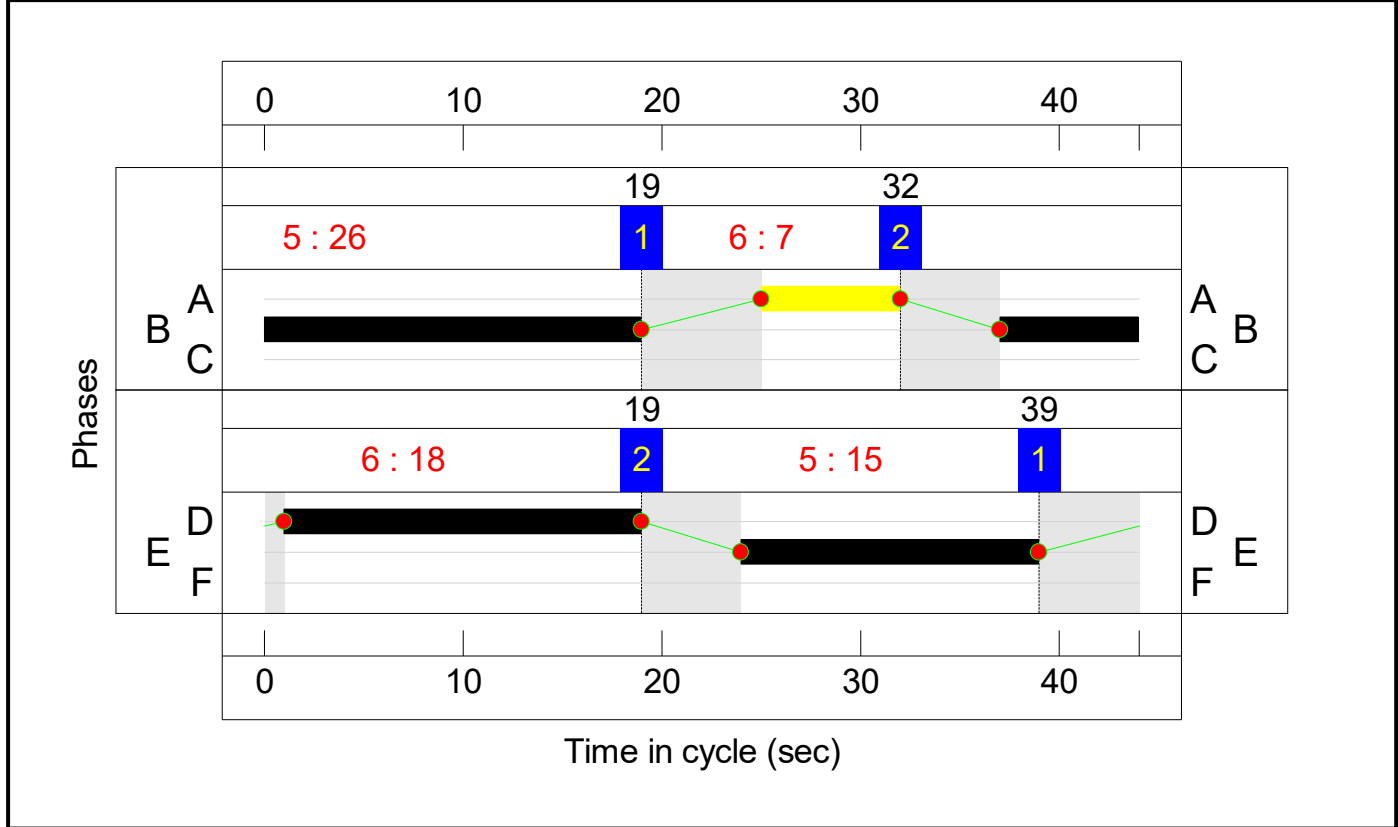
**Stage Stream: 1**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 7  | 26 |
| Change Point | 19 | 32 |

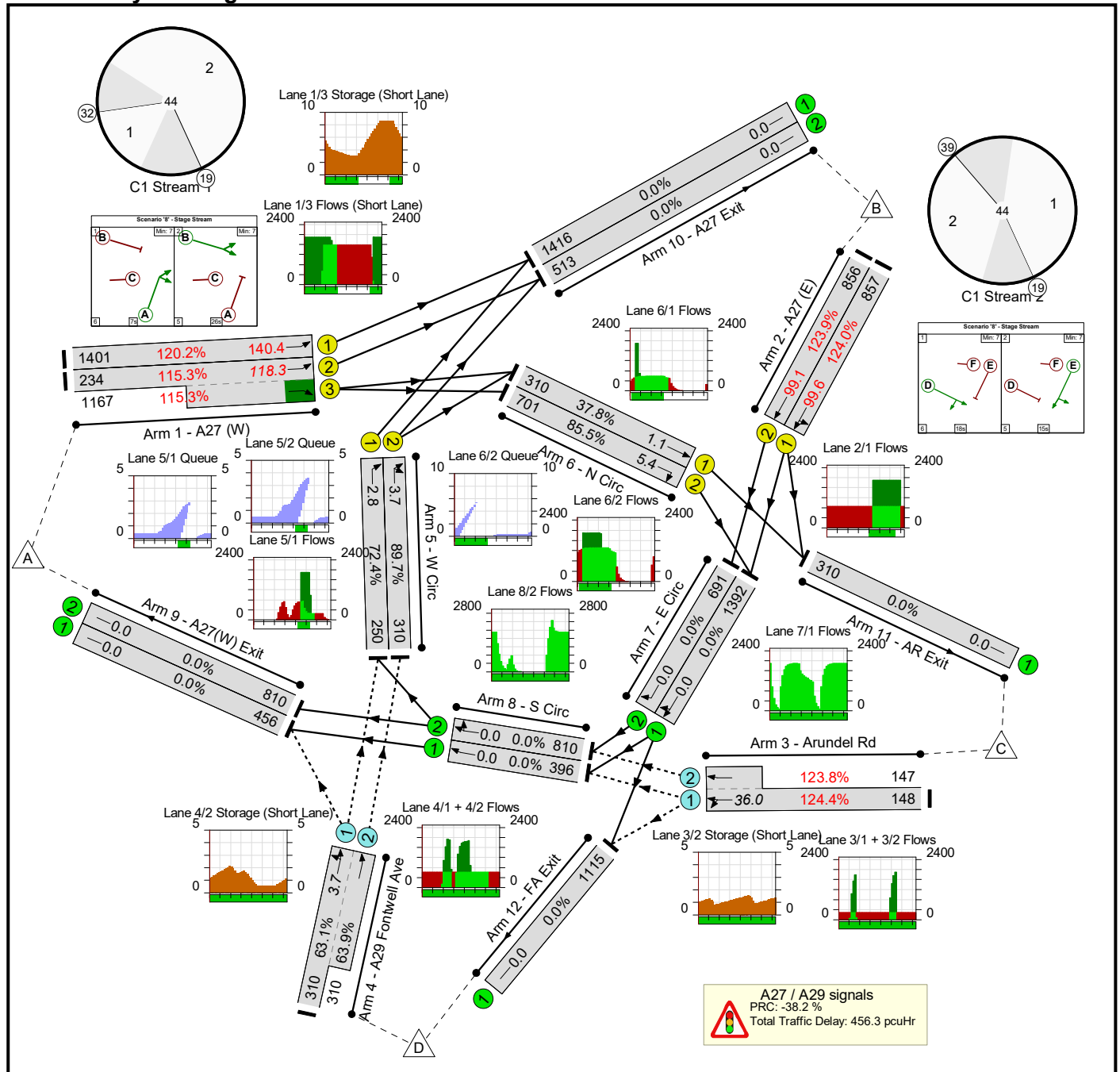
**Stage Stream: 2**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 39 | 19 |

Signal Timings Diagram



## Network Layout Diagram



Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 124.4%         |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 124.4%         |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1401              | 1900              | 1166           | 120.2%         |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1401              | 1900:1900         | 203+1012       | 115.3 : 115.3% |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 857               | 1900              | 691            | 124.0%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 856               | 1900              | 691            | 123.9%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 295               | 1900:1900         | 119+119        | 124.4 : 123.8% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 620               | 1900:1900         | 491+485        | 63.1 : 63.9%   |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 250               | 1900              | 345            | 72.4%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 310               | 1900              | 345            | 89.7%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 358               | 1900              | 820            | 37.8%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 809               | 1900              | 820            | 85.5%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1666              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 856               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 484               | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1003              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 544               | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1003              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1651              | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 544               | Inf               | Inf            | 0.0%           |

Full Input Data And Results

|      |         |   |     |     |   |  |   |   |   |      |     |     |      |
|------|---------|---|-----|-----|---|--|---|---|---|------|-----|-----|------|
| 11/1 | AR Exit | U | N/A | N/A | - |  | - | - | - | 358  | Inf | Inf | 0.0% |
| 12/1 | FA Exit | U | N/A | N/A | - |  | - | - | - | 1330 | Inf | Inf | 0.0% |

## Full Input Data And Results

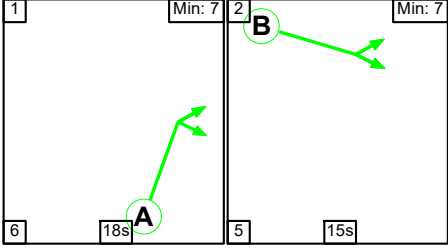
| Item                                                           | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr)  | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
|----------------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|----------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -              | -             | <b>1715</b>           | <b>0</b>                     | <b>0</b>                    | <b>36.6</b>           | <b>419.7</b>                 | <b>0.0</b>                         | <b>456.3</b>         | -                         | -                                | -                          | -                    |
| <b>A27 / A29 signals</b>                                       | -              | -             | <b>1715</b>           | <b>0</b>                     | <b>0</b>                    | <b>36.6</b>           | <b>419.7</b>                 | <b>0.0</b>                         | <b>456.3</b>         | -                         | -                                | -                          | -                    |
| 1/1                                                            | 1401           | 1166          | -                     | -                            | -                           | 8.5                   | 120.5                        | -                                  | 129.0                | 331.4                     | 20.0                             | 120.5                      | 140.4                |
| 1/2+1/3                                                        | 1401           | 1215          | -                     | -                            | -                           | 7.6                   | 96.8                         | -                                  | 104.4<br>(17.1+87.3) | 268.3<br>(263.3:269.3)    | 21.5                             | 96.8                       | 118.3                |
| 2/1                                                            | 857            | 691           | -                     | -                            | -                           | 7.4                   | 85.5                         | -                                  | 93.0                 | 390.5                     | 14.1                             | 85.5                       | 99.6                 |
| 2/2                                                            | 856            | 691           | -                     | -                            | -                           | 7.4                   | 85.1                         | -                                  | 92.4                 | 388.7                     | 14.0                             | 85.1                       | 99.1                 |
| 3/1+3/2                                                        | 295            | 238           | 475                   | 0                            | 0                           | 2.1                   | 31.0                         | -                                  | 33.2<br>(16.8+16.4)  | 404.6<br>(408.6:400.5)    | 5.0                              | 31.0                       | 36.0                 |
| 4/1+4/2                                                        | 620            | 620           | 1240                  | 0                            | 0                           | 1.3                   | 0.9                          | -                                  | 2.1<br>(1.1+1.1)     | 12.3<br>(12.2:12.4)       | 2.8                              | 0.9                        | 3.7                  |
| 5/1                                                            | 250            | 250           | -                     | -                            | -                           | 0.7                   | 0.0                          | -                                  | 0.7                  | 9.8                       | 2.8                              | 0.0                        | 2.8                  |
| 5/2                                                            | 310            | 310           | -                     | -                            | -                           | 0.9                   | 0.0                          | -                                  | 0.9                  | 10.2                      | 3.7                              | 0.0                        | 3.7                  |
| 6/1                                                            | 310            | 310           | -                     | -                            | -                           | 0.2                   | 0.0                          | -                                  | 0.2                  | 2.5                       | 1.1                              | 0.0                        | 1.1                  |
| 6/2                                                            | 701            | 701           | -                     | -                            | -                           | 0.5                   | 0.0                          | -                                  | 0.5                  | 2.4                       | 5.4                              | 0.0                        | 5.4                  |
| 7/1                                                            | 1392           | 1392          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                            | 691            | 691           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                            | 396            | 396           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                            | 810            | 810           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                            | 456            | 456           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                            | 810            | 810           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                           | 1416           | 1416          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                           | 513            | 513           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                           | 310            | 310           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                           | 1115           | 1115          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

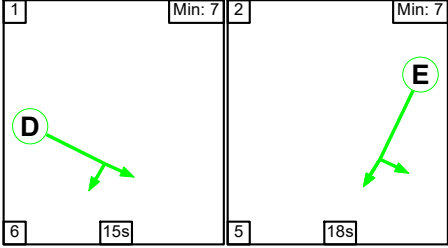
|    |           |                             |       |                                          |        |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|--------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | -33.5 | Total Delay for Signalled Lanes (pcuHr): | 234.96 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -37.8 | Total Delay for Signalled Lanes (pcuHr): | 186.06 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -38.2 | Total Delay Over All Lanes(pcuHr):       | 456.30 |                 |    |

Stage Sequence Diagram

Stage Stream: 1



Stage Stream: 2



Stage Timings

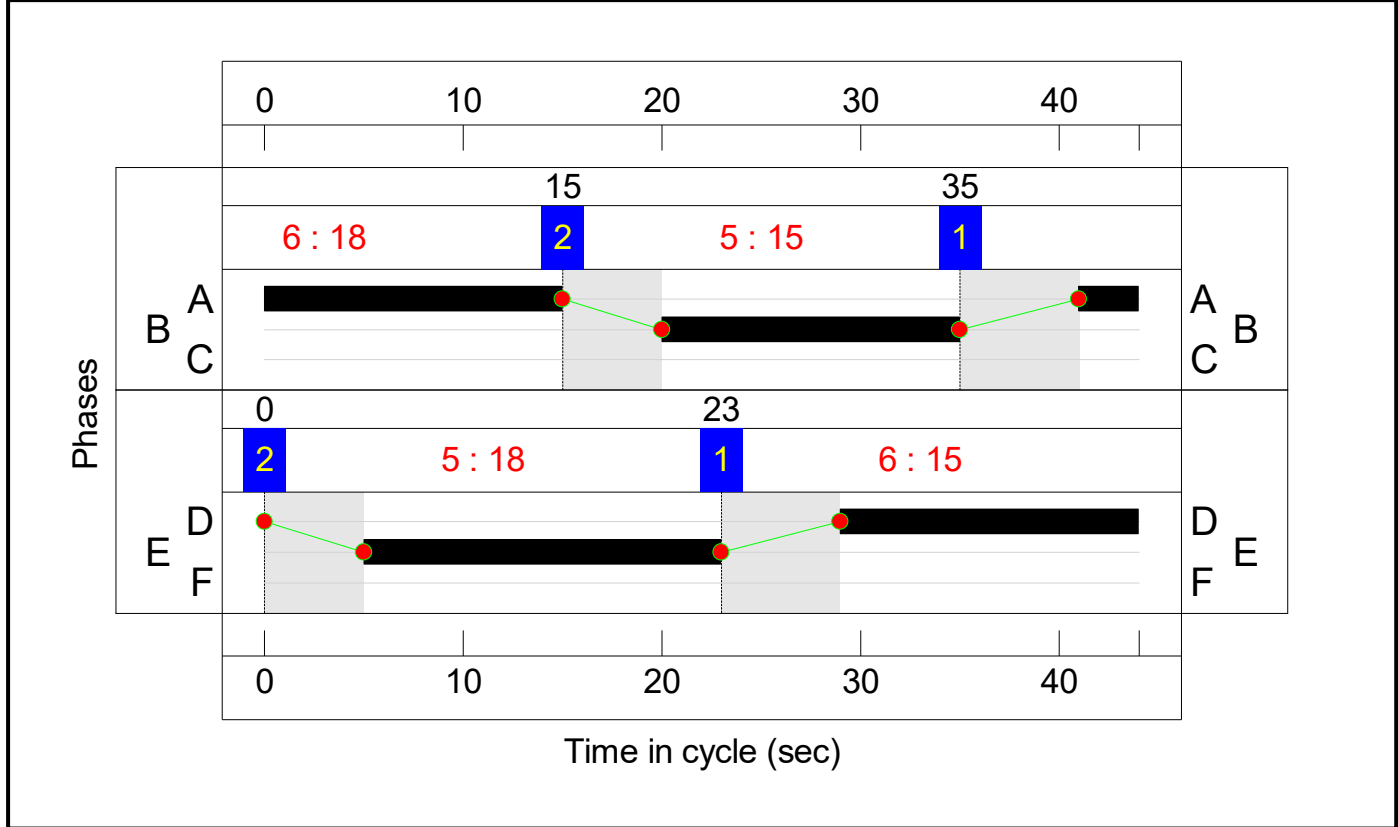
Stage Stream: 1

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 35 | 15 |

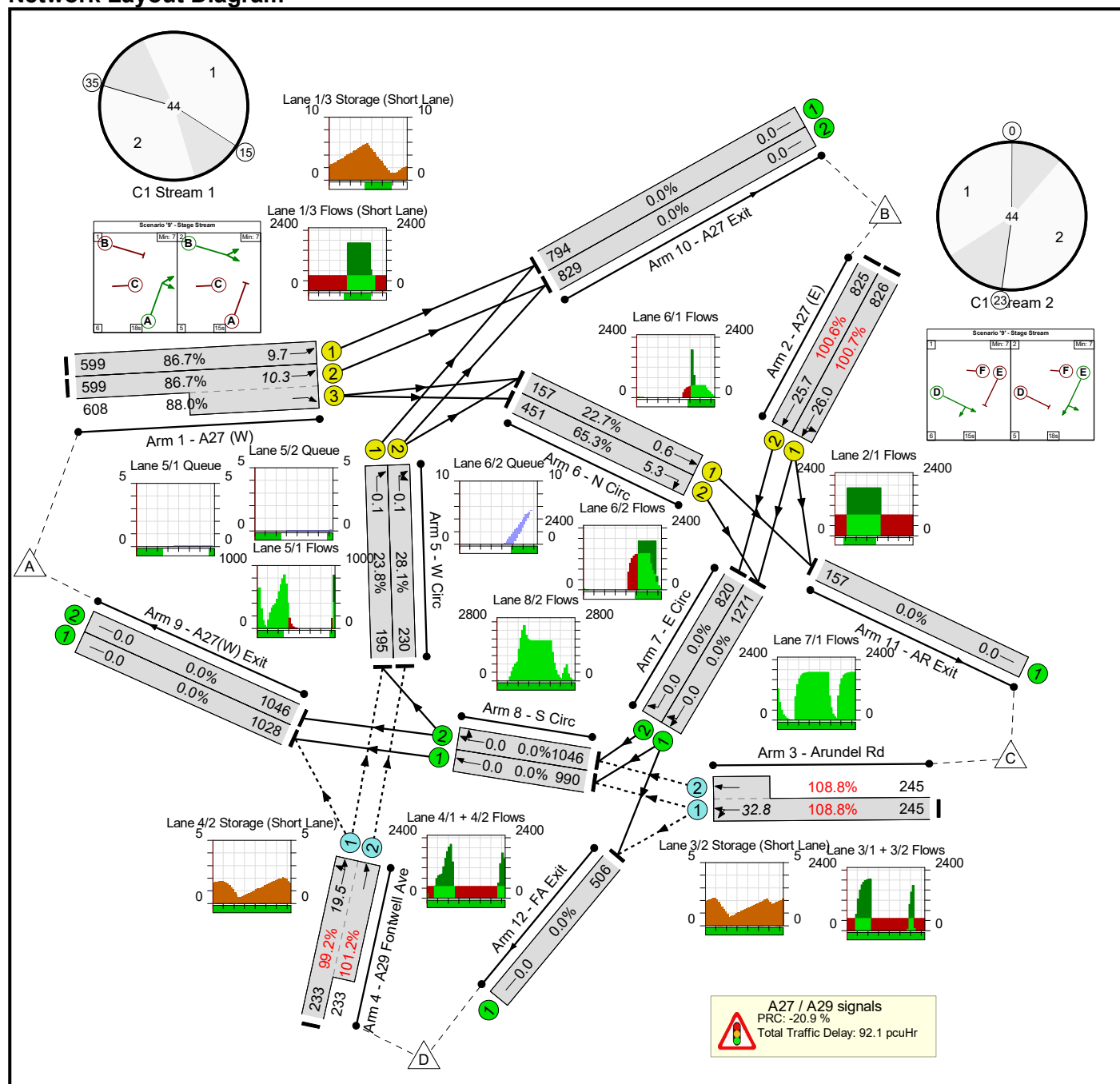
Stage Stream: 2

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 15 | 18 |
| Change Point | 23 | 0  |

Signal Timings Diagram



## Network Layout Diagram



Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>108.8%</b>  |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>108.8%</b>  |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 599               | 1900              | 691            | 86.7%          |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 1207              | 1900:1900         | 691+691        | 86.7 : 88.0%   |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 826               | 1900              | 820            | 100.7%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 825               | 1900              | 820            | 100.6%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 490               | 1900:1900         | 225+225        | 108.8 : 108.8% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 466               | 1900:1900         | 235+230        | 99.2 : 101.2%  |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 195               | 1900              | 820            | 23.8%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 233               | 1900              | 820            | 28.1%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 157               | 1900              | 691            | 22.7%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 451               | 1900              | 691            | 65.3%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1277              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 825               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1014              | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1070              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1052              | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1070              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 794               | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 832               | Inf               | Inf            | 0.0%           |

Full Input Data And Results

|      |         |   |     |     |   |  |   |   |   |     |     |     |      |
|------|---------|---|-----|-----|---|--|---|---|---|-----|-----|-----|------|
| 11/1 | AR Exit | U | N/A | N/A | - |  | - | - | - | 157 | Inf | Inf | 0.0% |
| 12/1 | FA Exit | U | N/A | N/A | - |  | - | - | - | 508 | Inf | Inf | 0.0% |

## Full Input Data And Results

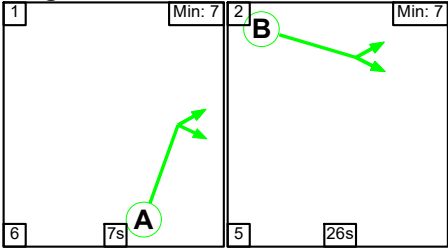
| Item                                                           | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr) | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
|----------------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|---------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -              | -             | <b>1827</b>           | <b>0</b>                     | <b>0</b>                    | <b>17.6</b>           | <b>74.5</b>                  | <b>0.0</b>                         | <b>92.1</b>         | -                         | -                                | -                          | -                    |
| <b>A27 / A29 signals</b>                                       | -              | -             | <b>1827</b>           | <b>0</b>                     | <b>0</b>                    | <b>17.6</b>           | <b>74.5</b>                  | <b>0.0</b>                         | <b>92.1</b>         | -                         | -                                | -                          | -                    |
| 1/1                                                            | 599            | 599           | -                     | -                            | -                           | 2.2                   | 3.1                          | -                                  | 5.2                 | 31.4                      | 6.7                              | 3.1                        | 9.7                  |
| 1/2+1/3                                                        | 1207           | 1207          | -                     | -                            | -                           | 4.4                   | 3.3                          | -                                  | 7.7 (3.8+3.9)       | 23.0 (22.9:23.0)          | 6.9                              | 3.3                        | 10.3                 |
| 2/1                                                            | 826            | 820           | -                     | -                            | -                           | 3.0                   | 15.8                         | -                                  | 18.8                | 81.9                      | 10.2                             | 15.8                       | 26.0                 |
| 2/2                                                            | 825            | 820           | -                     | -                            | -                           | 3.0                   | 15.5                         | -                                  | 18.5                | 80.7                      | 10.1                             | 15.5                       | 25.7                 |
| 3/1+3/2                                                        | 490            | 450           | 901                   | 0                            | 0                           | 2.8                   | 24.8                         | -                                  | 27.6 (13.8+13.8)    | 202.8 (202.6:203.1)       | 8.0                              | 24.8                       | 32.8                 |
| 4/1+4/2                                                        | 466            | 463           | 926                   | 0                            | 0                           | 1.8                   | 11.9                         | -                                  | 13.7 (6.1+7.6)      | 106.2 (94.8:117.5)        | 7.5                              | 11.9                       | 19.5                 |
| 5/1                                                            | 195            | 195           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.8                       | 0.1                              | 0.0                        | 0.1                  |
| 5/2                                                            | 230            | 230           | -                     | -                            | -                           | 0.1                   | 0.0                          | -                                  | 0.1                 | 0.8                       | 0.1                              | 0.0                        | 0.1                  |
| 6/1                                                            | 157            | 157           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.8                       | 0.6                              | 0.0                        | 0.6                  |
| 6/2                                                            | 451            | 451           | -                     | -                            | -                           | 0.4                   | 0.0                          | -                                  | 0.4                 | 3.1                       | 5.3                              | 0.0                        | 5.3                  |
| 7/1                                                            | 1271           | 1271          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                            | 820            | 820           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                            | 990            | 990           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                            | 1046           | 1046          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                            | 1028           | 1028          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                            | 1046           | 1046          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                           | 794            | 794           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                           | 829            | 829           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                           | 157            | 157           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                           | 506            | 506           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

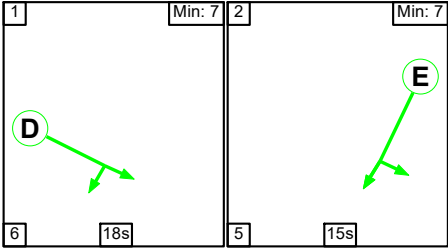
|    |           |                             |       |                                          |       |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|-------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | 2.3   | Total Delay for Signalled Lanes (pcuHr): | 13.02 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -11.9 | Total Delay for Signalled Lanes (pcuHr): | 37.73 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -20.9 | Total Delay Over All Lanes(pcuHr):       | 92.10 |                 |    |

Stage Sequence Diagram

Stage Stream: 1



Stage Stream: 2



Stage Timings

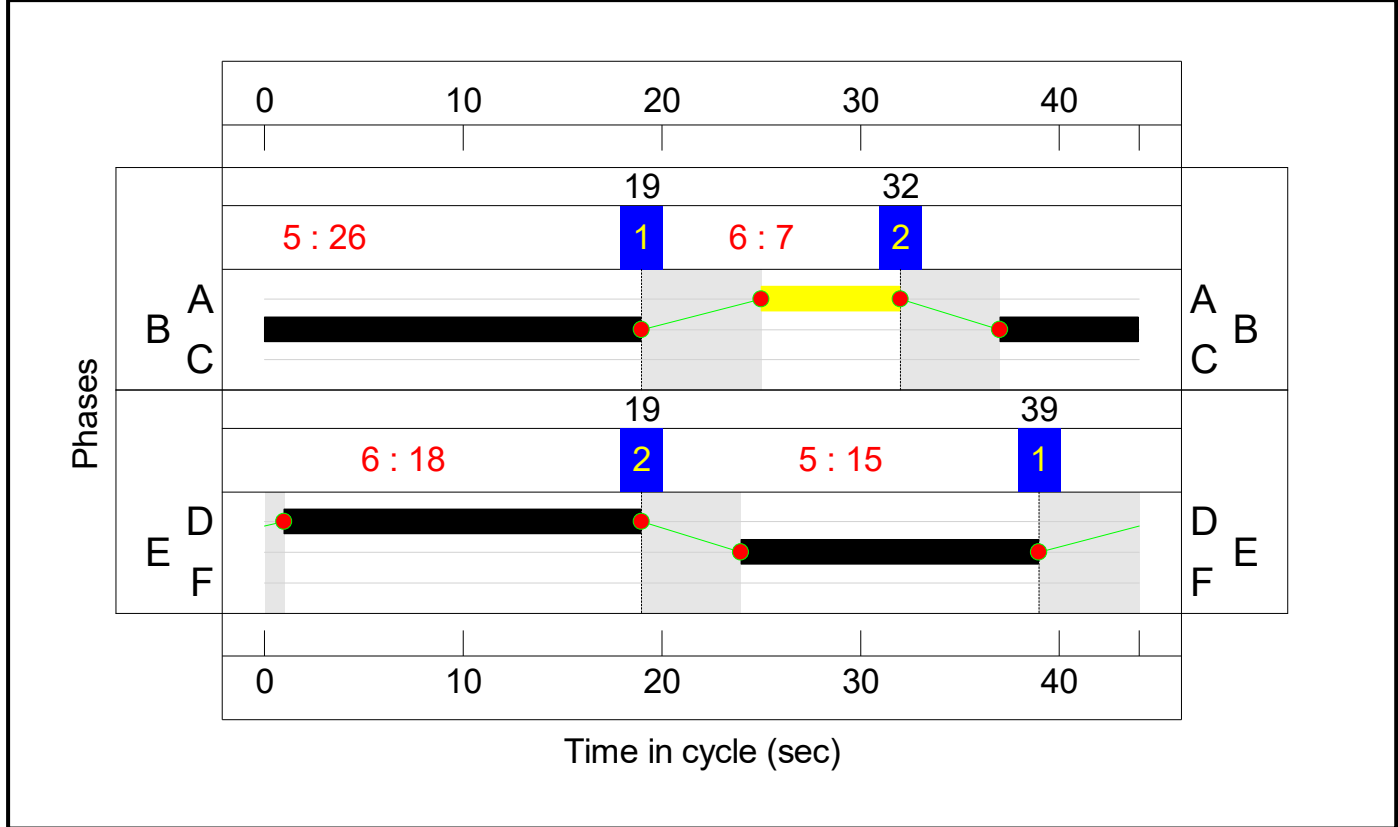
Stage Stream: 1

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 7  | 26 |
| Change Point | 19 | 32 |

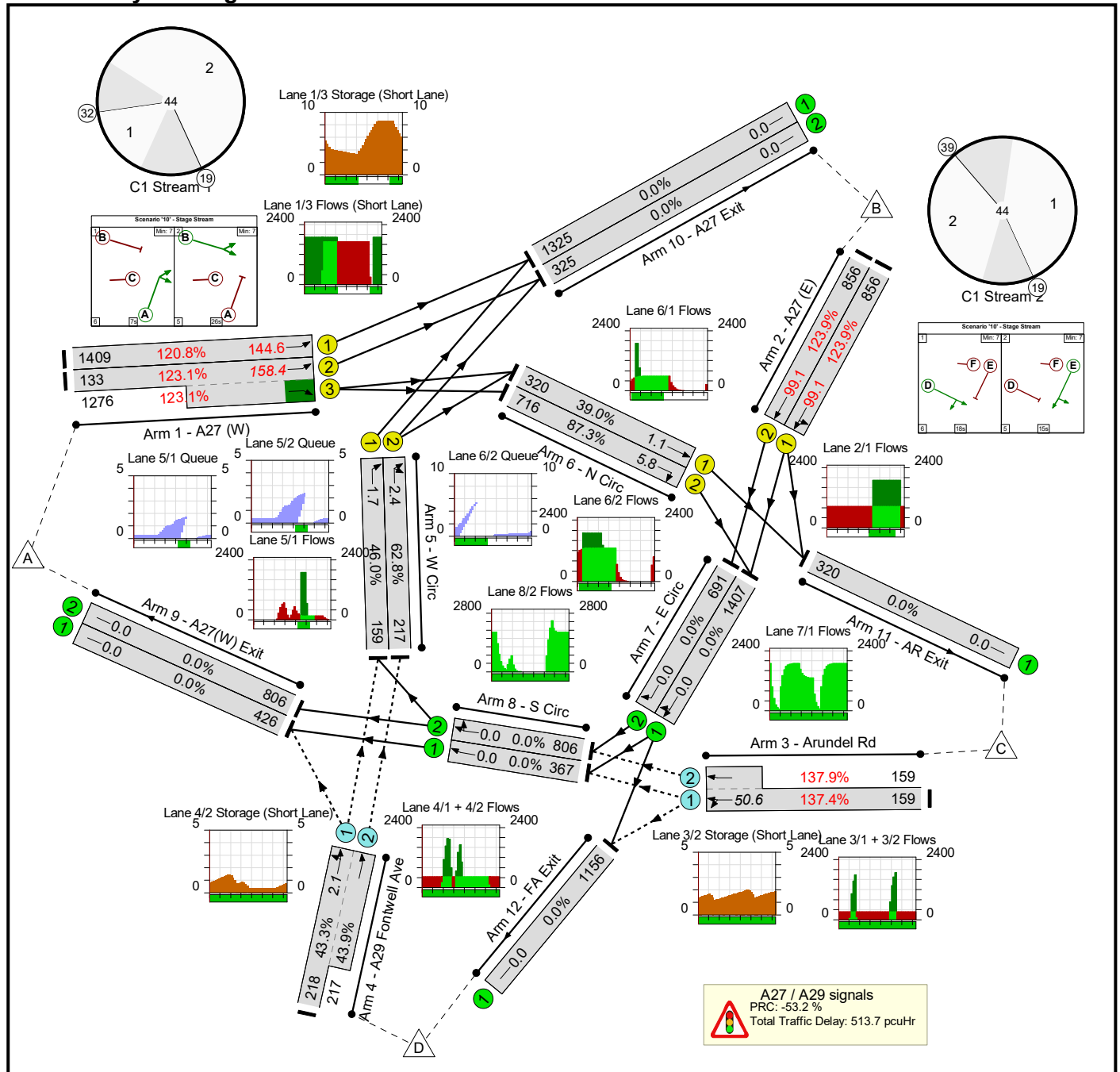
Stage Stream: 2

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 39 | 19 |

Signal Timings Diagram



## Network Layout Diagram



Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 137.9%         |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 137.9%         |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1409              | 1900              | 1166           | 120.8%         |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1409              | 1900:1900         | 108+1036       | 123.1 : 123.1% |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 856               | 1900              | 691            | 123.9%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 856               | 1900              | 691            | 123.9%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 318               | 1900:1900         | 116+115        | 137.4 : 137.9% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 435               | 1900:1900         | 504+494        | 43.3 : 43.9%   |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 159               | 1900              | 345            | 46.0%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 217               | 1900              | 345            | 62.8%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 394               | 1900              | 820            | 39.0%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 882               | 1900              | 820            | 87.3%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1738              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 856               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 469               | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1015              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 528               | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1015              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1568              | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 350               | Inf               | Inf            | 0.0%           |

## Full Input Data And Results

| 11/1                                                    | AR Exit        | U             | N/A                   | N/A                          | -                           |                       | -                            | -                                  | -                     | 394                       | Inf                              | Inf                        | 0.0%                 |
|---------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| 12/1                                                    | FA Exit        | U             | N/A                   | N/A                          | -                           |                       | -                            | -                                  | -                     | 1428                      | Inf                              | Inf                        | 0.0%                 |
| Item                                                    | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr)   | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
| Network: A27 / A29 Signal Roundabout - Fontwell Western | -              | -             | 1332                  | 0                            | 0                           | 38.7                  | 475.0                        | 0.0                                | 513.7                 | -                         | -                                | -                          | -                    |
| A27 / A29 signals                                       | -              | -             | 1332                  | 0                            | 0                           | 38.7                  | 475.0                        | 0.0                                | 513.7                 | -                         | -                                | -                          | -                    |
| 1/1                                                     | 1409           | 1166          | -                     | -                            | -                           | 8.7                   | 124.4                        | -                                  | 133.1                 | 340.1                     | 20.2                             | 124.4                      | 144.6                |
| 1/2+1/3                                                 | 1409           | 1144          | -                     | -                            | -                           | 9.7                   | 134.9                        | -                                  | 144.6<br>(13.4+131.2) | 369.5<br>(364.0:370.0)    | 23.5                             | 134.9                      | 158.4                |
| 2/1                                                     | 856            | 691           | -                     | -                            | -                           | 7.4                   | 85.1                         | -                                  | 92.4                  | 388.7                     | 14.0                             | 85.1                       | 99.1                 |
| 2/2                                                     | 856            | 691           | -                     | -                            | -                           | 7.4                   | 85.1                         | -                                  | 92.4                  | 388.7                     | 14.0                             | 85.1                       | 99.1                 |
| 3/1+3/2                                                 | 318            | 231           | 462                   | 0                            | 0                           | 3.0                   | 45.2                         | -                                  | 48.2<br>(24.0+24.2)   | 545.8<br>(543.4:548.1)    | 5.4                              | 45.2                       | 50.6                 |
| 4/1+4/2                                                 | 435            | 435           | 870                   | 0                            | 0                           | 0.7                   | 0.4                          | -                                  | 1.0 (0.5+0.5)         | 8.6 (8.5:8.8)             | 1.7                              | 0.4                        | 2.1                  |
| 5/1                                                     | 159            | 159           | -                     | -                            | -                           | 0.5                   | 0.0                          | -                                  | 0.5                   | 10.8                      | 1.7                              | 0.0                        | 1.7                  |
| 5/2                                                     | 217            | 217           | -                     | -                            | -                           | 0.7                   | 0.0                          | -                                  | 0.7                   | 11.0                      | 2.4                              | 0.0                        | 2.4                  |
| 6/1                                                     | 320            | 320           | -                     | -                            | -                           | 0.2                   | 0.0                          | -                                  | 0.2                   | 2.8                       | 1.1                              | 0.0                        | 1.1                  |
| 6/2                                                     | 716            | 716           | -                     | -                            | -                           | 0.5                   | 0.0                          | -                                  | 0.5                   | 2.6                       | 5.8                              | 0.0                        | 5.8                  |
| 7/1                                                     | 1407           | 1407          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                     | 691            | 691           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                     | 367            | 367           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                     | 806            | 806           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                     | 426            | 426           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                     | 806            | 806           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                    | 1325           | 1325          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                    | 325            | 325           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                    | 320            | 320           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                    | 1156           | 1156          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                   | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

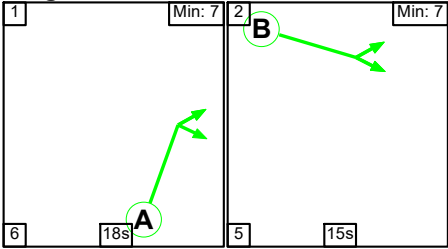
Full Input Data And Results

|    |           |                             |       |                                          |        |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|--------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | -36.8 | Total Delay for Signalled Lanes (pcuHr): | 278.85 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -37.7 | Total Delay for Signalled Lanes (pcuHr): | 185.62 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -53.2 | Total Delay Over All Lanes(pcuHr):       | 513.72 |                 |    |

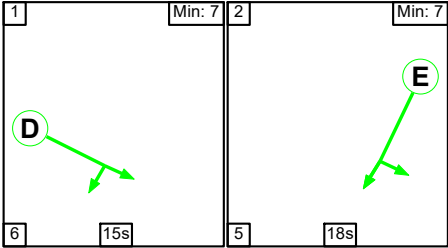
Full Input Data And Results  
**Scenario 11: '11'** (FG11: '2031 AM LP Base + Committed + Dev (Sensitivity)', Plan 1: 'Network Control Plan 1')

**Stage Sequence Diagram**

**Stage Stream: 1**



**Stage Stream: 2**



**Stage Timings**

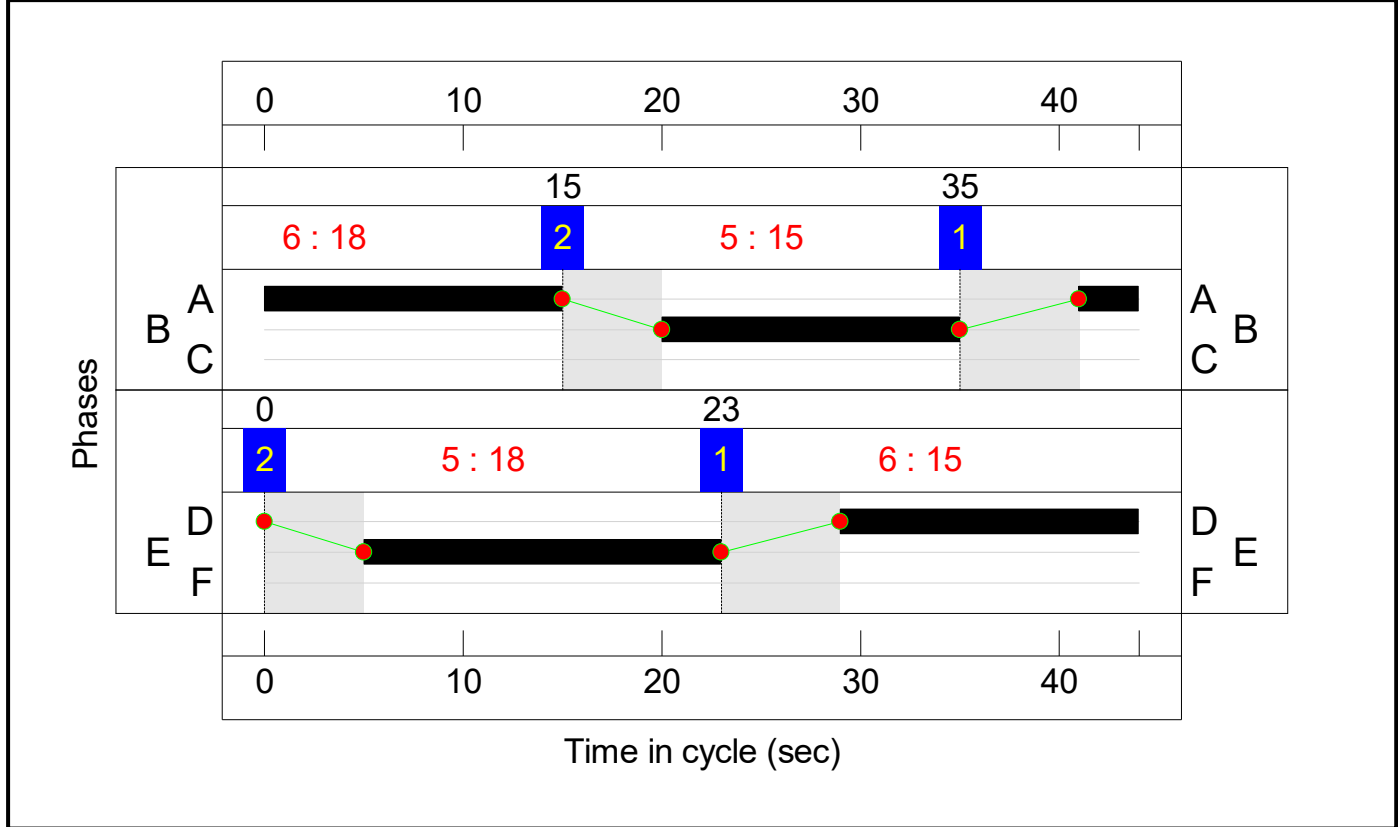
**Stage Stream: 1**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 35 | 15 |

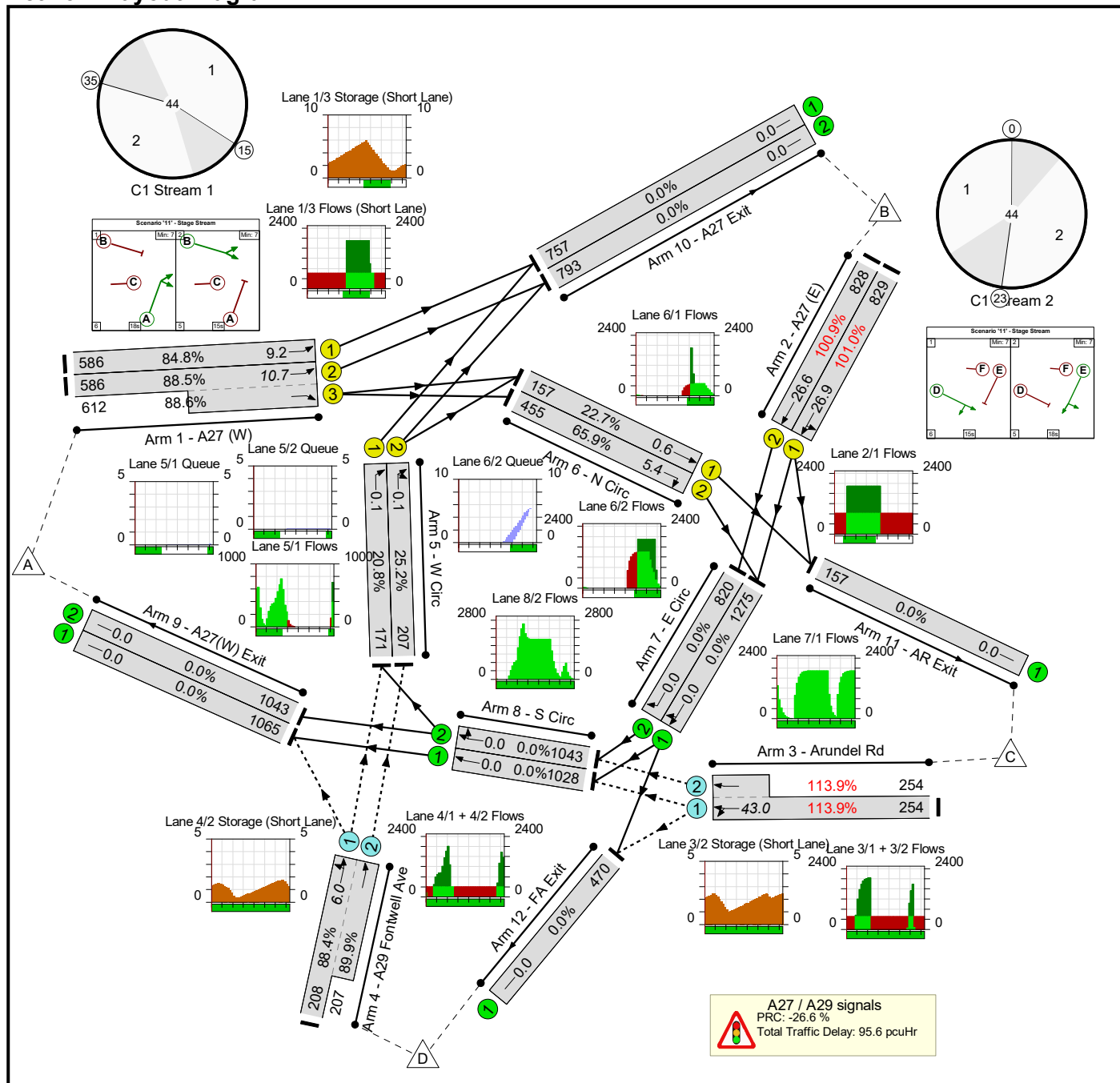
**Stage Stream: 2**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 15 | 18 |
| Change Point | 23 | 0  |

Signal Timings Diagram



## Network Layout Diagram



Full Input Data And Results  
**Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>113.9%</b>  |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>113.9%</b>  |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 586               | 1900              | 691            | 84.8%          |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 15              | -               | 1198              | 1900:1900         | 662+691        | 88.5 : 88.6%   |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 829               | 1900              | 820            | 101.0%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 18              | -               | 828               | 1900              | 820            | 100.9%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 508               | 1900:1900         | 223+223        | 113.9 : 113.9% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 415               | 1900:1900         | 235+230        | 88.4 : 89.9%   |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 171               | 1900              | 820            | 20.8%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 18              | -               | 207               | 1900              | 820            | 25.2%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 157               | 1900              | 691            | 22.7%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 15              | -               | 455               | 1900              | 691            | 65.9%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1284              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 828               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1066              | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1082              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1103              | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1082              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 757               | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 793               | Inf               | Inf            | 0.0%           |

Full Input Data And Results

|      |         |   |     |     |   |  |   |   |   |     |     |     |      |
|------|---------|---|-----|-----|---|--|---|---|---|-----|-----|-----|------|
| 11/1 | AR Exit | U | N/A | N/A | - |  | - | - | - | 157 | Inf | Inf | 0.0% |
| 12/1 | FA Exit | U | N/A | N/A | - |  | - | - | - | 472 | Inf | Inf | 0.0% |

## Full Input Data And Results

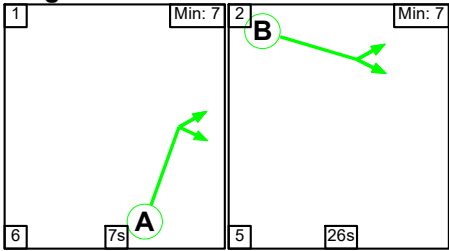
| Item                                                           | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr) | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
|----------------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|---------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -              | -             | <b>1722</b>           | <b>0</b>                     | <b>0</b>                    | <b>17.9</b>           | <b>77.7</b>                  | <b>0.0</b>                         | <b>95.6</b>         | -                         | -                                | -                          | -                    |
| <b>A27 / A29 signals</b>                                       | -              | -             | <b>1722</b>           | <b>0</b>                     | <b>0</b>                    | <b>17.9</b>           | <b>77.7</b>                  | <b>0.0</b>                         | <b>95.6</b>         | -                         | -                                | -                          | -                    |
| 1/1                                                            | 586            | 586           | -                     | -                            | -                           | 2.1                   | 2.7                          | -                                  | 4.8                 | 29.2                      | 6.5                              | 2.7                        | 9.2                  |
| 1/2+1/3                                                        | 1198           | 1198          | -                     | -                            | -                           | 4.3                   | 3.7                          | -                                  | 8.0 (3.9+4.1)       | 24.1 (24.0:24.2)          | 7.0                              | 3.7                        | 10.7                 |
| 2/1                                                            | 829            | 820           | -                     | -                            | -                           | 3.0                   | 16.7                         | -                                  | 19.7                | 85.7                      | 10.2                             | 16.7                       | 26.9                 |
| 2/2                                                            | 828            | 820           | -                     | -                            | -                           | 3.0                   | 16.4                         | -                                  | 19.4                | 84.4                      | 10.2                             | 16.4                       | 26.6                 |
| 3/1+3/2                                                        | 508            | 446           | 892                   | 0                            | 0                           | 3.4                   | 34.7                         | -                                  | 38.1 (19.0+19.1)    | 269.9 (269.7:270.0)       | 8.3                              | 34.7                       | 43.0                 |
| 4/1+4/2                                                        | 415            | 415           | 830                   | 0                            | 0                           | 1.5                   | 3.6                          | -                                  | 5.1 (2.5+2.5)       | 44.0 (43.9:44.1)          | 2.4                              | 3.6                        | 6.0                  |
| 5/1                                                            | 171            | 171           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.6                       | 0.1                              | 0.0                        | 0.1                  |
| 5/2                                                            | 207            | 207           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.6                       | 0.1                              | 0.0                        | 0.1                  |
| 6/1                                                            | 157            | 157           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.8                       | 0.6                              | 0.0                        | 0.6                  |
| 6/2                                                            | 455            | 455           | -                     | -                            | -                           | 0.4                   | 0.0                          | -                                  | 0.4                 | 3.1                       | 5.4                              | 0.0                        | 5.4                  |
| 7/1                                                            | 1275           | 1275          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                            | 820            | 820           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                            | 1028           | 1028          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                            | 1043           | 1043          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                            | 1065           | 1065          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                            | 1043           | 1043          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                           | 757            | 757           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                           | 793            | 793           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                           | 157            | 157           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                           | 470            | 470           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

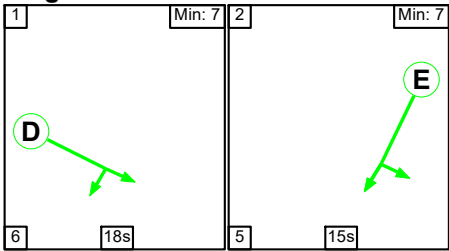
|    |           |                             |       |                                          |       |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|-------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | 1.6   | Total Delay for Signalled Lanes (pcuHr): | 12.84 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -12.3 | Total Delay for Signalled Lanes (pcuHr): | 39.60 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -26.6 | Total Delay Over All Lanes(pcuHr):       | 95.59 |                 |    |

**Stage Sequence Diagram**

**Stage Stream: 1**



**Stage Stream: 2**



**Stage Timings**

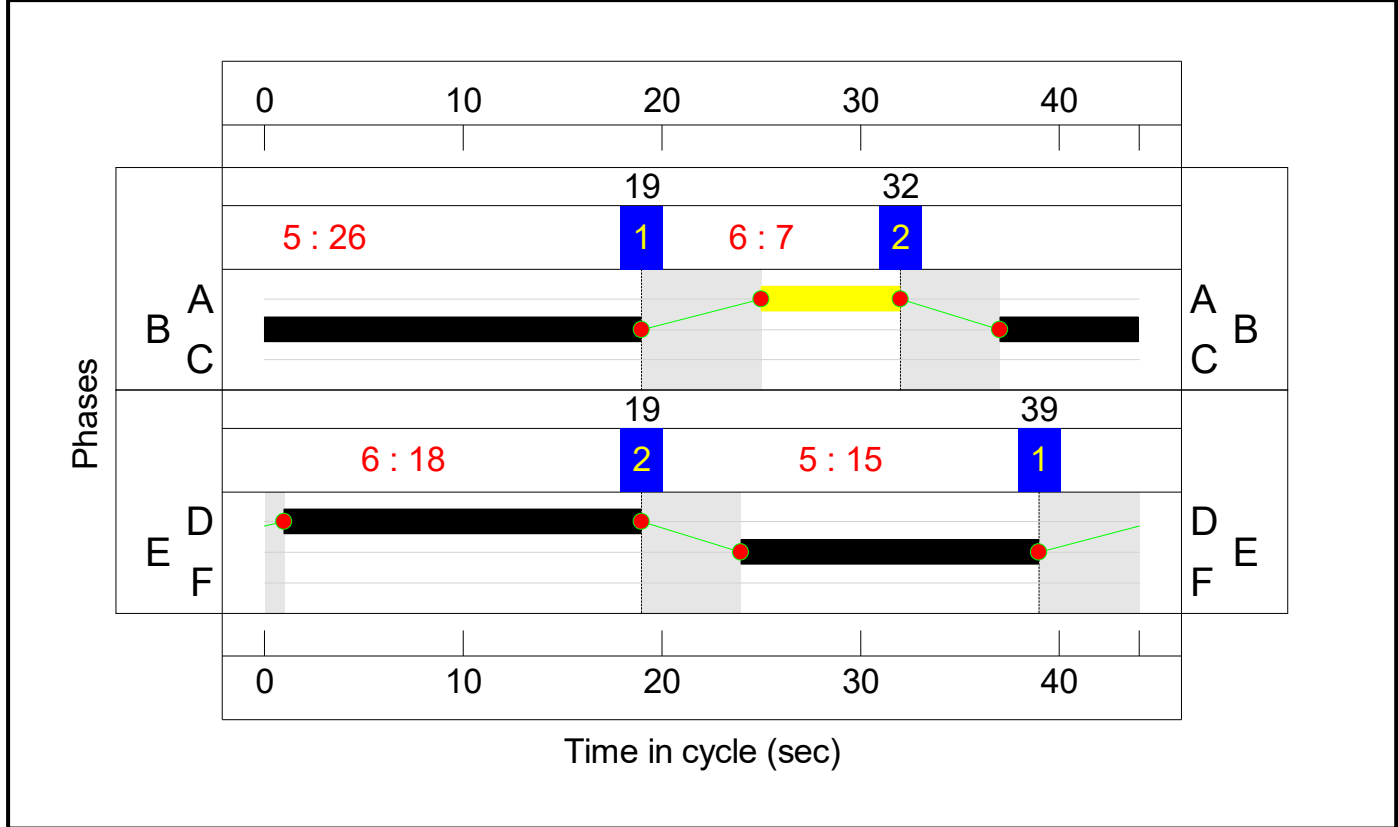
**Stage Stream: 1**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 7  | 26 |
| Change Point | 19 | 32 |

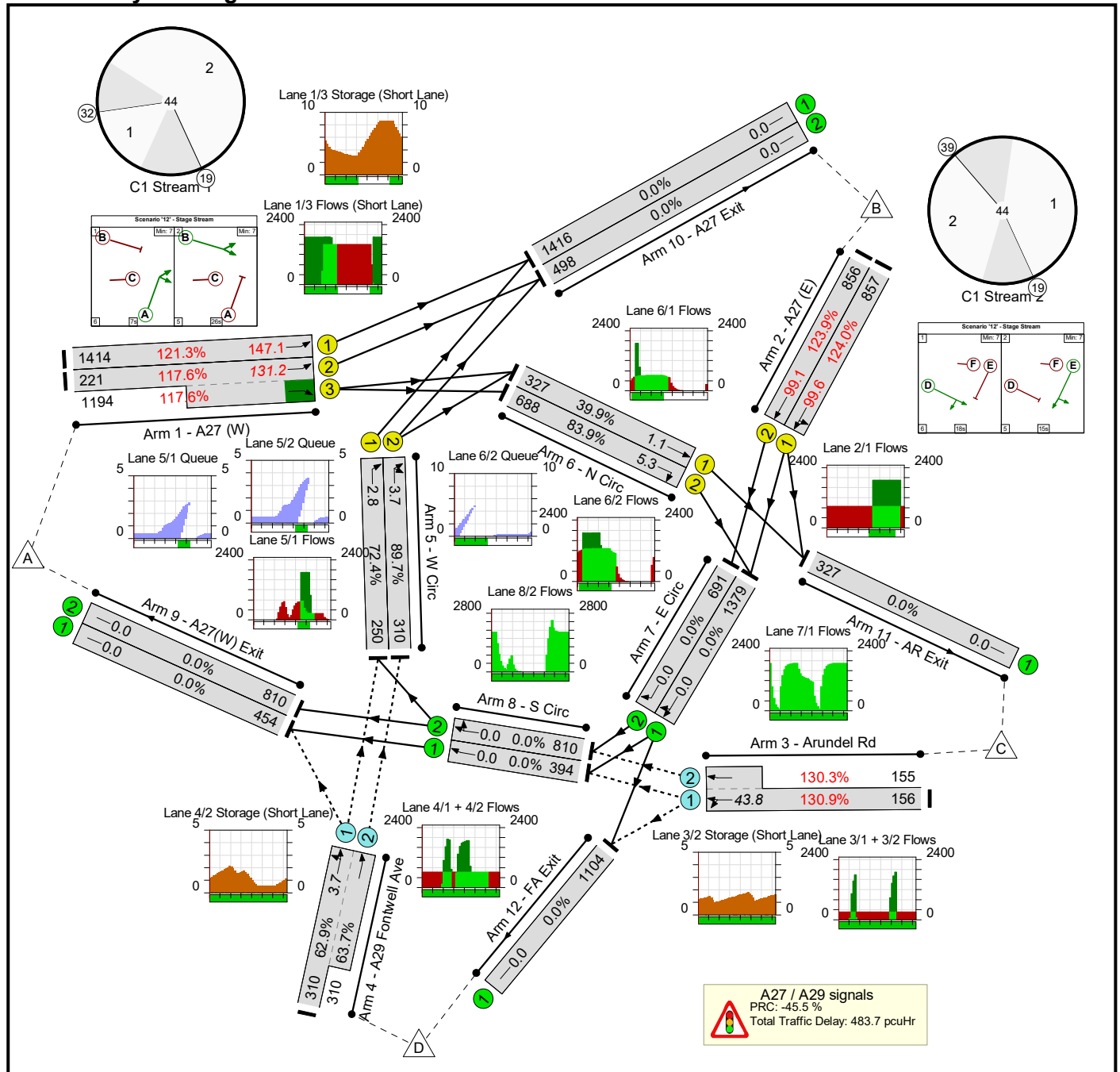
**Stage Stream: 2**

| Stage        | 1  | 2  |
|--------------|----|----|
| Duration     | 18 | 15 |
| Change Point | 39 | 19 |

Signal Timings Diagram



## Network Layout Diagram



## Full Input Data And Results

### **Network Results**

## Full Input Data And Results

| Item                                                           | Lane Description            | Lane Type | Controller Stream | Position In Filtered Route | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)    |
|----------------------------------------------------------------|-----------------------------|-----------|-------------------|----------------------------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|----------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>130.9%</b>  |
| <b>A27 / A29 signals</b>                                       | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | <b>130.9%</b>  |
| 1/1                                                            | A27 (W) Ahead               | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1414              | 1900              | 1166           | 121.3%         |
| 1/2+1/3                                                        | A27 (W) Ahead Ahead2        | U         | 1                 | N/A                        | B          |             | 1          | 26              | -               | 1415              | 1900:1900         | 188+1016       | 117.6 : 117.6% |
| 2/1                                                            | A27 (E) Ahead Left          | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 857               | 1900              | 691            | 124.0%         |
| 2/2                                                            | A27 (E) Ahead               | U         | 2                 | N/A                        | E          |             | 1          | 15              | -               | 856               | 1900              | 691            | 123.9%         |
| 3/1+3/2                                                        | Arundel Rd Ahead Left       | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 311               | 1900:1900         | 119+119        | 130.9 : 130.3% |
| 4/1+4/2                                                        | A29 Fontwell Ave Ahead Left | O         | N/A               | N/A                        | -          |             | -          | -               | -               | 620               | 1900:1900         | 493+486        | 62.9 : 63.7%   |
| 5/1                                                            | W Circ Right                | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 250               | 1900              | 345            | 72.4%          |
| 5/2                                                            | W Circ Right Right2         | U         | 1                 | N/A                        | A          |             | 1          | 7               | -               | 310               | 1900              | 345            | 89.7%          |
| 6/1                                                            | N Circ Ahead                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 385               | 1900              | 820            | 39.9%          |
| 6/2                                                            | N Circ Right                | U         | 2                 | N/A                        | D          |             | 1          | 18              | -               | 809               | 1900              | 820            | 83.9%          |
| 7/1                                                            | E Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1666              | Inf               | Inf            | 0.0%           |
| 7/2                                                            | E Circ Right                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 856               | Inf               | Inf            | 0.0%           |
| 8/1                                                            | S Circ Ahead                | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 492               | Inf               | Inf            | 0.0%           |
| 8/2                                                            | S Circ Right Ahead          | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1011              | Inf               | Inf            | 0.0%           |
| 9/1                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 552               | Inf               | Inf            | 0.0%           |
| 9/2                                                            | A27(W) Exit                 | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1011              | Inf               | Inf            | 0.0%           |
| 10/1                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 1664              | Inf               | Inf            | 0.0%           |
| 10/2                                                           | A27 Exit                    | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 531               | Inf               | Inf            | 0.0%           |

Full Input Data And Results

|      |         |   |     |     |   |  |   |   |   |      |     |     |      |
|------|---------|---|-----|-----|---|--|---|---|---|------|-----|-----|------|
| 11/1 | AR Exit | U | N/A | N/A | - |  | - | - | - | 385  | Inf | Inf | 0.0% |
| 12/1 | FA Exit | U | N/A | N/A | - |  | - | - | - | 1330 | Inf | Inf | 0.0% |

## Full Input Data And Results

| Item                                                           | Arriving (pcu) | Leaving (pcu) | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Uniform Delay (pcuHr) | Rand + Oversat Delay (pcuHr) | Storage Area Uniform Delay (pcuHr) | Total Delay (pcuHr)  | Av. Delay Per PCU (s/pcu) | Max. Back of Uniform Queue (pcu) | Rand + Oversat Queue (pcu) | Mean Max Queue (pcu) |
|----------------------------------------------------------------|----------------|---------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|------------------------------------|----------------------|---------------------------|----------------------------------|----------------------------|----------------------|
| <b>Network: A27 / A29 Signal Roundabout - Fontwell Western</b> | -              | -             | <b>1716</b>           | <b>0</b>                     | <b>0</b>                    | <b>38.0</b>           | <b>445.7</b>                 | <b>0.0</b>                         | <b>483.7</b>         | -                         | -                                | -                          | -                    |
| <b>A27 / A29 signals</b>                                       | -              | -             | <b>1716</b>           | <b>0</b>                     | <b>0</b>                    | <b>38.0</b>           | <b>445.7</b>                 | <b>0.0</b>                         | <b>483.7</b>         | -                         | -                                | -                          | -                    |
| 1/1                                                            | 1414           | 1166          | -                     | -                            | -                           | 8.9                   | 126.8                        | -                                  | 135.7                | 345.4                     | 20.3                             | 126.8                      | 147.1                |
| 1/2+1/3                                                        | 1415           | 1204          | -                     | -                            | -                           | 8.3                   | 109.0                        | -                                  | 117.2<br>(18.0+99.2) | 298.3<br>(293.2+299.2)    | 22.2                             | 109.0                      | 131.2                |
| 2/1                                                            | 857            | 691           | -                     | -                            | -                           | 7.4                   | 85.5                         | -                                  | 93.0                 | 390.5                     | 14.1                             | 85.5                       | 99.6                 |
| 2/2                                                            | 856            | 691           | -                     | -                            | -                           | 7.4                   | 85.1                         | -                                  | 92.4                 | 388.7                     | 14.0                             | 85.1                       | 99.1                 |
| 3/1+3/2                                                        | 311            | 238           | 476                   | 0                            | 0                           | 2.6                   | 38.5                         | -                                  | 41.0<br>(20.7+20.3)  | 475.1<br>(478.7+471.5)    | 5.3                              | 38.5                       | 43.8                 |
| 4/1+4/2                                                        | 620            | 620           | 1240                  | 0                            | 0                           | 1.3                   | 0.9                          | -                                  | 2.1<br>(1.0+1.1)     | 12.3<br>(12.2+12.4)       | 2.8                              | 0.9                        | 3.7                  |
| 5/1                                                            | 250            | 250           | -                     | -                            | -                           | 0.7                   | 0.0                          | -                                  | 0.7                  | 9.8                       | 2.8                              | 0.0                        | 2.8                  |
| 5/2                                                            | 310            | 310           | -                     | -                            | -                           | 0.9                   | 0.0                          | -                                  | 0.9                  | 10.2                      | 3.7                              | 0.0                        | 3.7                  |
| 6/1                                                            | 327            | 327           | -                     | -                            | -                           | 0.2                   | 0.0                          | -                                  | 0.2                  | 2.5                       | 1.1                              | 0.0                        | 1.1                  |
| 6/2                                                            | 688            | 688           | -                     | -                            | -                           | 0.4                   | 0.0                          | -                                  | 0.4                  | 2.3                       | 5.3                              | 0.0                        | 5.3                  |
| 7/1                                                            | 1379           | 1379          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/2                                                            | 691            | 691           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1                                                            | 394            | 394           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2                                                            | 810            | 810           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/1                                                            | 454            | 454           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 9/2                                                            | 810            | 810           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/1                                                           | 1416           | 1416          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 10/2                                                           | 498            | 498           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 11/1                                                           | 327            | 327           | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 12/1                                                           | 1104           | 1104          | -                     | -                            | -                           | 0.0                   | 0.0                          | -                                  | 0.0                  | 0.0                       | 0.0                              | 0.0                        | 0.0                  |

Full Input Data And Results

|    |           |                             |       |                                          |        |                 |    |
|----|-----------|-----------------------------|-------|------------------------------------------|--------|-----------------|----|
| C1 | Stream: 1 | PRC for Signalled Lanes (%) | -34.8 | Total Delay for Signalled Lanes (pcuHr): | 254.48 | Cycle Time (s): | 44 |
| C1 | Stream: 2 | PRC for Signalled Lanes (%) | -37.8 | Total Delay for Signalled Lanes (pcuHr): | 186.06 | Cycle Time (s): | 44 |
|    |           | PRC Over All Lanes (%)      | -45.5 | Total Delay Over All Lanes(pcuHr):       | 483.70 |                 |    |