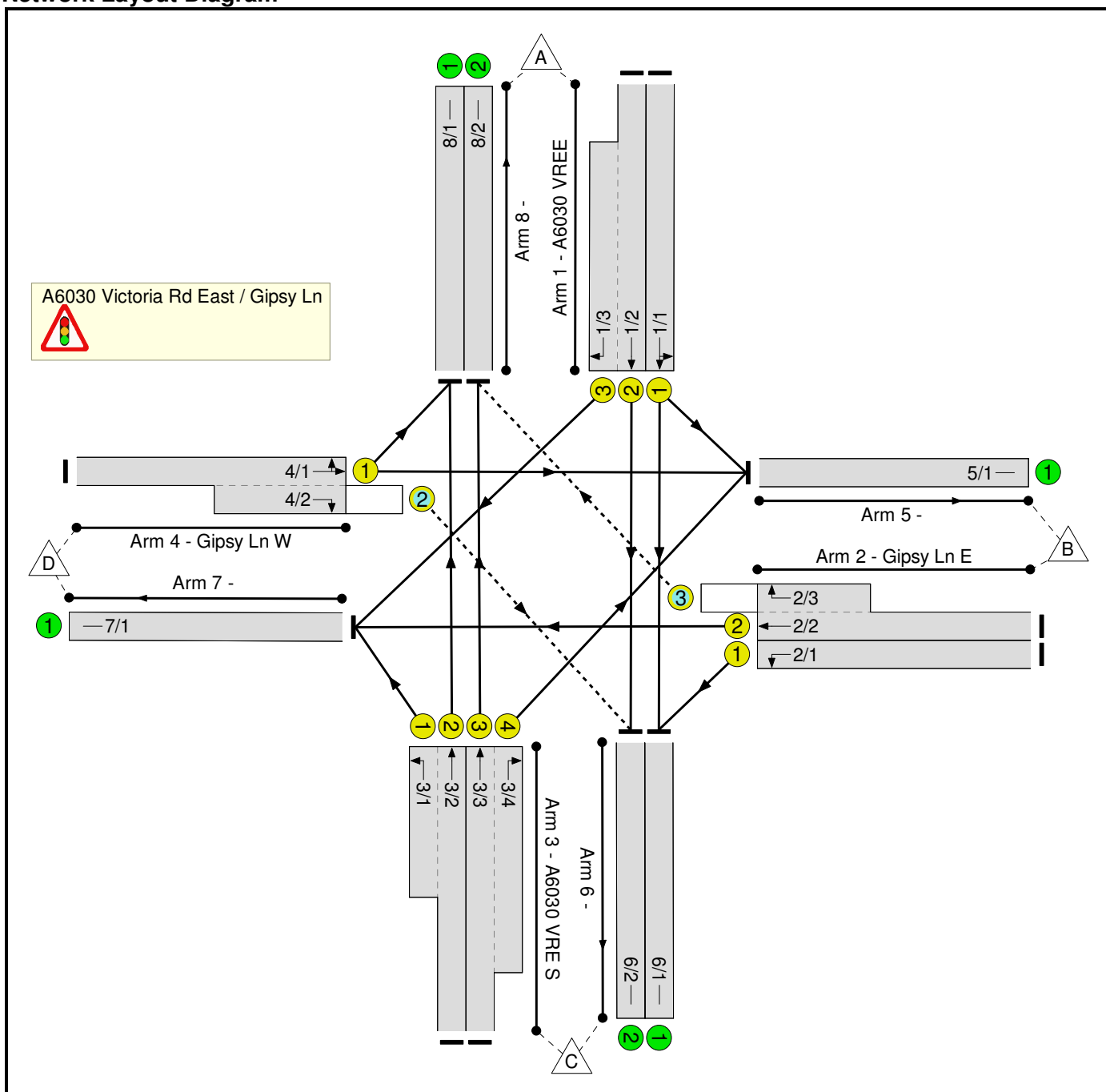


Full Input Data And Results  
**Full Input Data And Results**

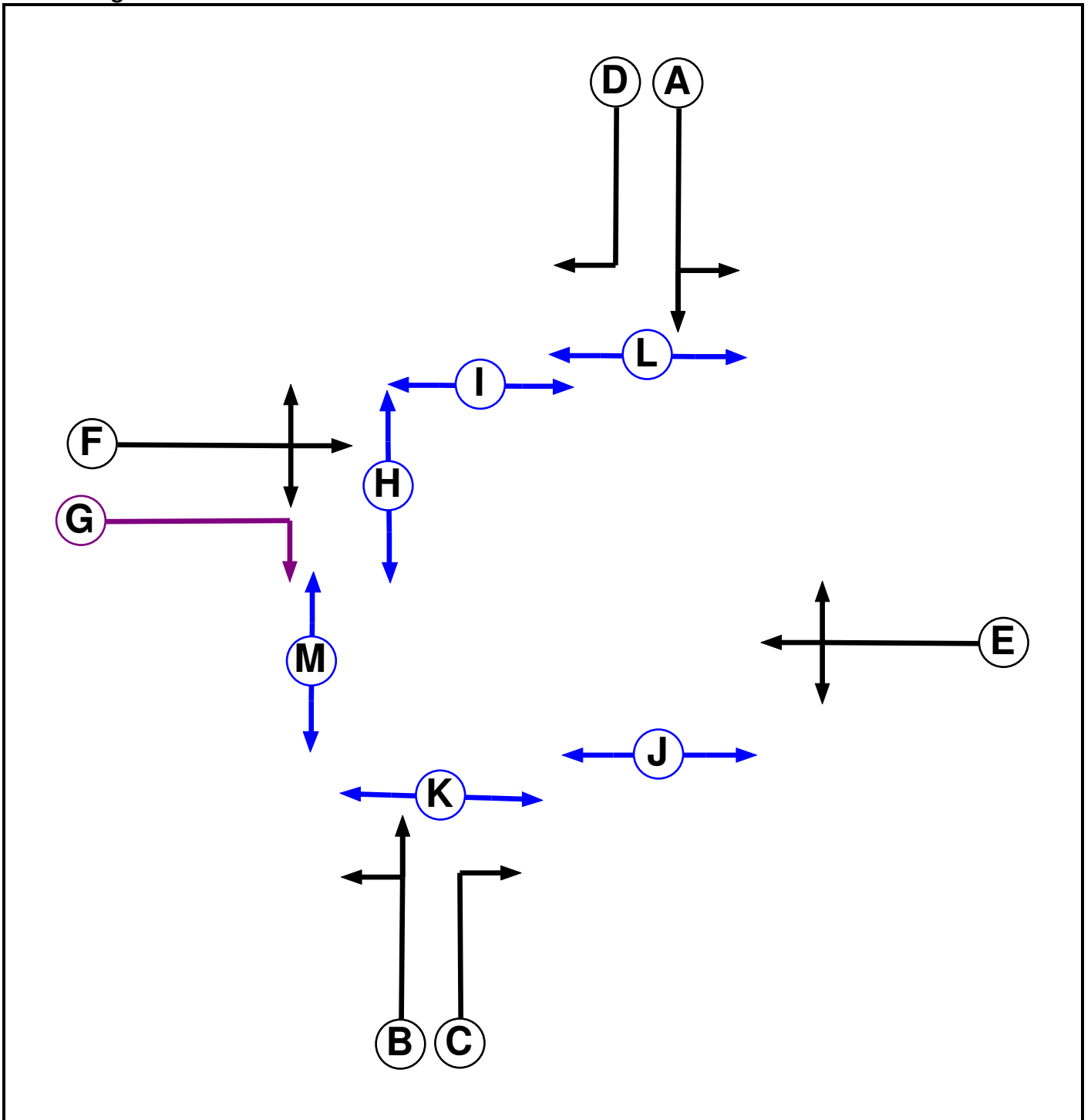
**User and Project Details**

|                   |  |
|-------------------|--|
| <b>Project:</b>   | <b>A046980-7 North East Leicester SUE</b>                      |
| <b>Title:</b>     | <b>A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> |
| <b>Location:</b>  |  |
| <b>File name:</b> | A046980-7 VREE Gipsy Lane (Existing Layout).lsg3x              |
| <b>Author:</b>    | R Bishop / A Critchlow   |
| <b>Company:</b>   | WYG  |
| <b>Address:</b>   | Leicester  |
| <b>Notes:</b>     | Analysis based upon LCiC supplied data.                        |

**Network Layout Diagram**



Phase Diagram



Full Input Data And Results

**Phase Input Data**

| Phase Name | Phase Type | Assoc. Phase | Street Min | Cont Min |
|------------|------------|--------------|------------|----------|
| A          | Traffic    |              | -9999      | 7        |
| B          | Traffic    |              | -9999      | 7        |
| C          | Traffic    |              | -9999      | 7        |
| D          | Traffic    |              | -9999      | 7        |
| E          | Traffic    |              | -9999      | 7        |
| F          | Traffic    |              | -9999      | 2        |
| G          | Ind. Arrow | F            | -9999      | 1        |
| H          | Pedestrian |              | -9999      | 5        |
| I          | Pedestrian |              | -9999      | 5        |
| J          | Pedestrian |              | -9999      | 5        |
| K          | Pedestrian |              | -9999      | 10       |
| L          | Pedestrian |              | -9999      | 7        |
| M          | Pedestrian |              | -9999      | 1        |

**Phase Intergreens Matrix**

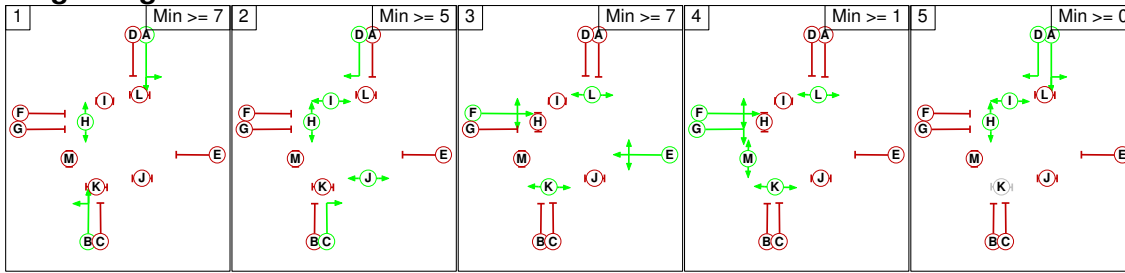
|                   |   | Starting Phase |    |    |    |   |   |   |   |   |   |   |   |   |
|-------------------|---|----------------|----|----|----|---|---|---|---|---|---|---|---|---|
|                   |   | A              | B  | C  | D  | E | F | G | H | I | J | K | L | M |
| Terminating Phase | A | -              | -  | 6  | -  | 7 | 7 | 7 | - | - | 8 | - | 5 | - |
|                   | B | -              | -  | -  | 6  | 7 | 7 | 7 | - | 8 | - | 5 | - | 6 |
|                   | C | 7              | -  | -  | -  | 6 | 6 | 6 | - | - | - | 5 | - | - |
|                   | D | -              | 7  | -  | -  | 6 | 6 | 6 | - | - | - | - | 5 | 8 |
|                   | E | 7              | 7  | 6  | 6  | - | - | 5 | - | 8 | 7 | - | - | 8 |
|                   | F | 7              | 7  | 6  | 6  | - | - | - | 5 | 6 | 8 | - | - | - |
|                   | G | 7              | 7  | 6  | 6  | 6 | - | - | 5 | - | 8 | - | - | - |
|                   | H | -              | -  | -  | -  | - | 6 | 6 | - | - | - | - | - | - |
|                   | I | -              | 6  | -  | -  | 6 | 6 | - | - | - | - | - | - | - |
|                   | J | 6              | -  | -  | -  | 6 | 6 | 6 | - | - | - | - | - | - |
|                   | K | -              | 12 | 12 | -  | - | - | - | - | - | - | - | - | - |
|                   | L | 10             | -  | -  | 10 | - | - | - | - | - | - | - | - | - |
|                   | M | -              | 6  | -  | 6  | 6 | - | - | - | - | - | - | - | - |

**Phases in Stage**

| Stage No. | Phases in Stage |
|-----------|-----------------|
| 1         | A B H           |
| 2         | C D H I J       |
| 3         | E F K L         |
| 4         | F G K L M       |
| 5         | A D H I         |

# Full Input Data And Results

## Stage Diagram



## Phase Delays

| Term. | Stage | Start Stage | Phase | Type   | Value | Cont value |
|-------|-------|-------------|-------|--------|-------|------------|
| 4     | 1     | 1           | F     | Losing | 5     | 5          |
| 4     | 1     | 1           | L     | Losing | 2     | 2          |
| 4     | 1     | 1           | M     | Losing | 6     | 6          |
| 4     | 2     | 2           | F     | Losing | 6     | 6          |
| 4     | 2     | 2           | L     | Losing | 2     | 2          |
| 4     | 2     | 2           | M     | Losing | 6     | 6          |

## Prohibited Stage Change

|            |   | To Stage |    |   |   |    |
|------------|---|----------|----|---|---|----|
|            |   | 1        | 2  | 3 | 4 | 5  |
| From Stage | 1 |          | 8  | 7 | 7 | 8  |
|            | 2 | 7        |    | 6 | 8 | 7  |
|            | 3 | 12       | 12 |   | 8 | 10 |
|            | 4 | 12       | 14 | 6 |   | 10 |
|            | 5 | 7        | 8  | 7 | 8 |    |

Full Input Data And Results

**Give-Way Lane Input Data**

| Junction: A6030 Victoria Rd East / Gipsy Ln |             |                                   |                                   |               |                  |              |                          |                            |      |                        |                               |
|---|-------------|-----------------------------------|-----------------------------------|---------------|------------------|--------------|--------------------------|----------------------------|------|------------------------|-------------------------------|
| Lane  | Movement    | Max Flow when Giving Way (PCU/Hr) | Min Flow when Giving Way (PCU/Hr) | Opposing Lane | Opp. Lane Coeff. | Opp. Mvmnts. | Right Turn Storage (PCU) | Non-Blocking Storage (PCU) | RTF  | Right Turn Move up (s) | Max Turns in Intergreen (PCU) |
| 2/3<br>(Gipsy Ln E)                         | 8/2 (Right) | 1439                              | 0                                 | 4/1           | 1.09             | All          | 3.00                     | -                          | 0.50 | 3                      | 2.00                          |
| 4/2<br>(Gipsy Ln W)                         | 6/2 (Right) | 1439                              | 0                                 | 2/2           | 1.09             | All          | 3.00                     | -                          | 0.50 | 3                      | 2.00                          |
|   |             |                                   |                                   | 2/1           | 1.09             | All          |                          |                            |      |                        |                               |

Full Input Data And Results

**Lane Input Data**

| Junction: A6030 Victoria Rd East / Gipsy Ln |           |        |             |           |                       |               |                                   |                |          |               |             |                    |
|---|-----------|--------|-------------|-----------|-----------------------|---------------|-----------------------------------|----------------|----------|---------------|-------------|--------------------|
| 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>(A6030 VREE)                         | U         | A      | 2           | 3         | 60.0                  | Geom          | -                                 | 3.20           | 0.00     | Y             | Arm 5 Left  | 12.00              |
|   |           |        |             |           |                       |               |                                   |                |          |               | Arm 6 Ahead | Inf                |
| 1/2<br>(A6030 VREE)                         | U         | A      | 2           | 3         | 60.0                  | Geom          | -                                 | 3.20           | 0.00     | N             | Arm 6 Ahead | Inf                |
| 1/3<br>(A6030 VREE)                         | U         | D      | 2           | 3         | 16.0                  | Geom          | -                                 | 3.00           | 0.00     | Y             | Arm 7 Right | 12.00              |
| 2/1<br>(Gipsy Ln E)                         | U         | E      | 2           | 3         | 60.0                  | Geom          | -                                 | 3.00           | 0.00     | Y             | Arm 6 Left  | 12.00              |
| 2/2<br>(Gipsy Ln E)                         | U         | E      | 2           | 3         | 60.0                  | Geom          | -                                 | 3.00           | 0.00     | Y             | Arm 7 Ahead | Inf                |
| 2/3<br>(Gipsy Ln E)                         | O         | E      | 2           | 3         | 6.0                   | Geom          | -                                 | 3.00           | 0.00     | Y             | Arm 8 Right | 12.00              |
| 3/1<br>(A6030 VRE S)                        | U         | B      | 2           | 3         | 8.0                   | Geom          | -                                 | 3.00           | 0.00     | Y             | Arm 7 Left  | 12.00              |
| 3/2<br>(A6030 VRE S)                        | U         | B      | 2           | 3         | 60.0                  | Geom          | -                                 | 3.00           | 0.00     | Y             | Arm 8 Ahead | Inf                |
| 3/3<br>(A6030 VRE S)                        | U         | B      | 2           | 3         | 60.0                  | Geom          | -                                 | 3.00           | 0.00     | N             | Arm 8 Ahead | Inf                |
| 3/4<br>(A6030 VRE S)                        | U         | C      | 2           | 3         | 12.0                  | Geom          | -                                 | 3.00           | 0.00     | Y             | Arm 5 Right | 12.00              |
| 4/1<br>(Gipsy Ln W)                         | U         | F      | 2           | 3         | 60.0                  | Geom          | -                                 | 3.00           | 0.00     | Y             | Arm 5 Ahead | Inf                |
|   |           |        |             |           |                       |               |                                   |                |          |               | Arm 8 Left  | 12.00              |
| 4/2<br>(Gipsy Ln W)                         | O         | F G    | 2           | 3         | 7.0                   | Geom          | -                                 | 3.00           | 0.00     | Y             | Arm 6 Right | 12.00              |
| 5/1   | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -           | -                  |
| 6/1   | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -           | -                  |
| 6/2   | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -           | -                  |
| 7/1   | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -           | -                  |
| 8/1   | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -           | -                  |
| 8/2   | U         |        | 2           | 3         | 60.0                  | Inf           | -                                 | -              | -        | -             | -           | -                  |

Full Input Data And Results

**Traffic Flow Groups**

| Flow Group                                   | Start Time | End Time | Duration | Formula |
|--|------------|----------|----------|---------|
| 1: '2014 AM Base'                            | 08:00      | 09:00    | 01:00    |         |
| 2: '2014 PM Base'                            | 17:00      | 18:00    | 01:00    |         |
| 3: '2016 + ComDev AM'                        | 08:00      | 09:00    | 01:00    |         |
| 4: '2016 + ComDev PM'                        | 17:00      | 18:00    | 01:00    |         |
| 5: '2016 + ComDev +Ph1 AM'                   | 08:00      | 09:00    | 01:00    |         |
| 6: '2016 + ComDev +Ph1 PM'                   | 17:00      | 18:00    | 01:00    |         |
| 7: '2021 + ComDev AM'                        | 08:00      | 09:00    | 01:00    |         |
| 8: '2021 + ComDev PM'                        | 17:00      | 18:00    | 01:00    |         |
| 9: '2021 + ComDev + Ph2 AM'                  | 08:00      | 09:00    | 01:00    |         |
| 10: '2021 + ComDev + Ph2 PM'                 | 17:00      | 18:00    | 01:00    |         |
| 11: '2031 AM + ComDev'                       | 08:00      | 09:00    | 01:00    |         |
| 12: '2031 PM + Comdev'                       | 17:00      | 18:00    | 01:00    |         |
| 13: '2031 + All Dev (Stage 2 Mitiagtion) AM' | 08:00      | 09:00    | 01:00    |         |
| 14: '2031 + All Dev (Stage 2 Mitiagtion) PM' | 17:00      | 18:00    | 01:00    |         |

**Scenario 1: '2014 AM'** (FG1: '2014 AM Base', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

|        | Destination |     |      |     |      |     |
|--------|-------------|-----|------|-----|------|-----|
|        | A           | B   | C    | D   | Tot. |     |
| Origin | A           | 0   | 35   | 621 | 201  | 857 |
| B      | 71          | 0   | 98   | 307 | 476  |     |
| C      | 393         | 52  | 0    | 208 | 653  |     |
| D      | 82          | 174 | 289  | 0   | 545  |     |
| Tot.   | 546         | 261 | 1008 | 716 | 2531 |     |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 1:<br>2014 AM |
|--|------------------------|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |                        |
| 1/1  | 328                    |
| 1/2<br>(with short)                                | 529(In)<br>328(Out)    |
| 1/3<br>(short)                                     | 201                    |
| 2/1  | 98                     |
| 2/2<br>(with short)                                | 378(In)<br>307(Out)    |
| 2/3<br>(short)                                     | 71                     |
| 3/1<br>(short)                                     | 208                    |
| 3/2<br>(with short)                                | 405(In)<br>197(Out)    |
| 3/3<br>(with short)                                | 248(In)<br>196(Out)    |
| 3/4<br>(short)                                     | 52                     |
| 4/1<br>(with short)                                | 545(In)<br>256(Out)    |
| 4/2<br>(short)                                     | 289                    |
| 5/1  | 261                    |
| 6/1  | 391                    |
| 6/2  | 617                    |
| 7/1  | 716                    |
| 8/1  | 279                    |
| 8/2  | 267                    |



Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 10.7 %        | 1910              | 1910                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 89.3 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 68.0 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 32.0 %        | 1841              | 1841                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 2: '2014 PM'** (FG2: '2014 PM Base', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

| Origin | Destination |     |     |     |      |  |
|--------|-------------|-----|-----|-----|------|--|
|        | A           | B   | C   | D   | Tot. |  |
| A      | 0           | 74  | 418 | 119 | 611  |  |
| B      | 41          | 0   | 41  | 146 | 228  |  |
| C      | 603         | 89  | 0   | 296 | 988  |  |
| D      | 184         | 205 | 250 | 0   | 639  |  |
| Tot.   | 828         | 368 | 709 | 561 | 2466 |  |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 2:<br>2014 PM |
|--|------------------------|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |                        |
| 1/1  | 246                    |
| 1/2<br>(with short)                                | 365(In)<br>246(Out)    |
| 1/3<br>(short)                                     | 119                    |
| 2/1  | 41                     |
| 2/2<br>(with short)                                | 187(In)<br>146(Out)    |
| 2/3<br>(short)                                     | 41                     |
| 3/1<br>(short)                                     | 296                    |
| 3/2<br>(with short)                                | 598(In)<br>302(Out)    |
| 3/3<br>(with short)                                | 390(In)<br>301(Out)    |
| 3/4<br>(short)                                     | 89                     |
| 4/1<br>(with short)                                | 639(In)<br>389(Out)    |
| 4/2<br>(short)                                     | 250                    |
| 5/1  | 368                    |
| 6/1  | 213                    |
| 6/2  | 496                    |
| 7/1  | 561                    |
| 8/1  | 486                    |
| 8/2  | 342                    |

Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 30.1 %        | 1865              | 1865                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 69.9 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 5 Ahead   | Inf                | 52.7 %        | 1808              | 1808                     |
|   |                          |          |               | Arm 8 Left    | 12.00              | 47.3 %        |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 3: '2016 +Com Dev AM'** (FG3: '2016 + ComDev AM', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

| Origin | Destination |     |      |     |      |  |
|--------|-------------|-----|------|-----|------|--|
|        | A           | B   | C    | D   | Tot. |  |
| A      | 0           | 36  | 632  | 204 | 872  |  |
| B      | 73          | 0   | 100  | 313 | 486  |  |
| C      | 400         | 53  | 0    | 211 | 664  |  |
| D      | 84          | 177 | 294  | 0   | 555  |  |
| Tot.   | 557         | 266 | 1026 | 728 | 2577 |  |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 3:<br>2016 +Com Dev AM |
|--|---------------------------------|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |                                 |
| 1/1  | 334                             |
| 1/2<br>(with short)                                | 538(In)<br>334(Out)             |
| 1/3<br>(short)                                     | 204                             |
| 2/1  | 100                             |
| 2/2<br>(with short)                                | 386(In)<br>313(Out)             |
| 2/3<br>(short)                                     | 73                              |
| 3/1<br>(short)                                     | 211                             |
| 3/2<br>(with short)                                | 411(In)<br>200(Out)             |
| 3/3<br>(with short)                                | 253(In)<br>200(Out)             |
| 3/4<br>(short)                                     | 53                              |
| 4/1<br>(with short)                                | 555(In)<br>261(Out)             |
| 4/2<br>(short)                                     | 294                             |
| 5/1  | 266                             |
| 6/1  | 398                             |
| 6/2  | 628                             |
| 7/1  | 728                             |
| 8/1  | 284                             |
| 8/2  | 273                             |

Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 10.8 %        | 1909              | 1909                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 89.2 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 67.8 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 32.2 %        | 1841              | 1841                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 4: '2016 +Com Dev PM'** (FG4: '2016 + ComDev PM', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

| Origin | Destination |     |     |     |      |  |
|--------|-------------|-----|-----|-----|------|--|
|        | A           | B   | C   | D   | Tot. |  |
| A      | 0           | 76  | 425 | 122 | 623  |  |
| B      | 42          | 0   | 42  | 148 | 232  |  |
| C      | 614         | 91  | 0   | 301 | 1006 |  |
| D      | 187         | 209 | 255 | 0   | 651  |  |
| Tot.   | 843         | 376 | 722 | 571 | 2512 |  |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 4:<br>2016 +Com Dev PM |
|--|---------------------------------|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |                                 |
| 1/1  | 251                             |
| 1/2<br>(with short)                                | 372(In)<br>250(Out)             |
| 1/3<br>(short)                                     | 122                             |
| 2/1  | 42                              |
| 2/2<br>(with short)                                | 190(In)<br>148(Out)             |
| 2/3<br>(short)                                     | 42                              |
| 3/1<br>(short)                                     | 301                             |
| 3/2<br>(with short)                                | 608(In)<br>307(Out)             |
| 3/3<br>(with short)                                | 398(In)<br>307(Out)             |
| 3/4<br>(short)                                     | 91                              |
| 4/1<br>(with short)                                | 651(In)<br>396(Out)             |
| 4/2<br>(short)                                     | 255                             |
| 5/1  | 376                             |
| 6/1  | 217                             |
| 6/2  | 505                             |
| 7/1  | 571                             |
| 8/1  | 494                             |
| 8/2  | 349                             |

Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 30.3 %        | 1864              | 1864                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 69.7 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 52.8 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 47.2 %        | 1808              | 1808                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 5: '2016 +Com Dev + Ph1 AM'** (FG5: '2016 + ComDev +Ph1 AM', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

|        | Destination |     |     |      |      |      |
|--------|-------------|-----|-----|------|------|------|
|        | A           | B   | C   | D    | Tot. |      |
| Origin | A           | 0   | 29  | 658  | 204  | 891  |
|        | B           | 72  | 0   | 98   | 309  | 479  |
|        | C           | 403 | 52  | 0    | 216  | 671  |
|        | D           | 84  | 198 | 298  | 0    | 580  |
|        | Tot.        | 559 | 279 | 1054 | 729  | 2621 |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 5:<br>2016 +Com Dev + Ph1<br>AM |
|--|--|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |  |
| 1/1  | 344                                      |
| 1/2<br>(with short)                                | 547(In)<br>343(Out)                      |
| 1/3<br>(short)                                     | 204                                      |
| 2/1  | 98                                       |
| 2/2<br>(with short)                                | 381(In)<br>309(Out)                      |
| 2/3<br>(short)                                     | 72                                       |
| 3/1<br>(short)                                     | 216                                      |
| 3/2<br>(with short)                                | 418(In)<br>202(Out)                      |
| 3/3<br>(with short)                                | 253(In)<br>201(Out)                      |
| 3/4<br>(short)                                     | 52                                       |
| 4/1<br>(with short)                                | 580(In)<br>282(Out)                      |
| 4/2<br>(short)                                     | 298                                      |
| 5/1  | 279                                      |
| 6/1  | 413                                      |
| 6/2  | 641                                      |
| 7/1  | 729                                      |
| 8/1  | 286                                      |
| 8/2  | 273                                      |



Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 8.4 %         | 1915              | 1915                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 91.6 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 5 Ahead   | Inf                | 70.2 %        | 1846              | 1846                     |
|   |                          |          |               | Arm 8 Left    | 12.00              | 29.8 %        |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 6: '2016 +Com Dev + Ph1 PM' (FG6: '2016 + ComDev +Ph1 PM', Plan 1: 'Network Control Plan 1')**

**Traffic Flows, Desired**

**Desired Flow :**

| Origin | Destination |     |     |     |      |  |
|--------|-------------|-----|-----|-----|------|--|
|        | A           | B   | C   | D   | Tot. |  |
| A      | 0           | 75  | 441 | 129 | 645  |  |
| B      | 38          | 0   | 34  | 147 | 219  |  |
| C      | 616         | 85  | 0   | 301 | 1002 |  |
| D      | 187         | 234 | 256 | 0   | 677  |  |
| Tot.   | 841         | 394 | 731 | 577 | 2543 |  |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 6:<br>2016 +Com Dev + Ph1<br>PM |
|--|--|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |  |
| 1/1  | 258                                      |
| 1/2<br>(with short)                                | 387(In)<br>258(Out)                      |
| 1/3<br>(short)                                     | 129                                      |
| 2/1  | 34                                       |
| 2/2<br>(with short)                                | 185(In)<br>147(Out)                      |
| 2/3<br>(short)                                     | 38                                       |
| 3/1<br>(short)                                     | 301                                      |
| 3/2<br>(with short)                                | 609(In)<br>308(Out)                      |
| 3/3<br>(with short)                                | 393(In)<br>308(Out)                      |
| 3/4<br>(short)                                     | 85                                       |
| 4/1<br>(with short)                                | 677(In)<br>421(Out)                      |
| 4/2<br>(short)                                     | 256                                      |
| 5/1  | 394                                      |
| 6/1  | 217                                      |
| 6/2  | 514                                      |
| 7/1  | 577                                      |
| 8/1  | 495                                      |
| 8/2  | 346                                      |

Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 29.1 %        | 1867              | 1867                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 70.9 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 55.6 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 44.4 %        | 1814              | 1814                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 7: '2021 +Com Dev AM'** (FG7: '2021 + ComDev AM', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

|        | Destination |     |     |      |      |      |
|--------|-------------|-----|-----|------|------|------|
|        | A           | B   | C   | D    | Tot. |      |
| Origin | A           | 0   | 38  | 664  | 214  | 916  |
|        | B           | 76  | 0   | 105  | 328  | 509  |
|        | C           | 420 | 56  | 0    | 222  | 698  |
|        | D           | 88  | 186 | 309  | 0    | 583  |
|        | Tot.        | 584 | 280 | 1078 | 764  | 2706 |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 7:<br>2021 +Com Dev AM |
|--|---------------------------------|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |                                 |
| 1/1  | 351                             |
| 1/2<br>(with short)                                | 565(In)<br>351(Out)             |
| 1/3<br>(short)                                     | 214                             |
| 2/1  | 105                             |
| 2/2<br>(with short)                                | 404(In)<br>328(Out)             |
| 2/3<br>(short)                                     | 76                              |
| 3/1<br>(short)                                     | 222                             |
| 3/2<br>(with short)                                | 432(In)<br>210(Out)             |
| 3/3<br>(with short)                                | 266(In)<br>210(Out)             |
| 3/4<br>(short)                                     | 56                              |
| 4/1<br>(with short)                                | 583(In)<br>274(Out)             |
| 4/2<br>(short)                                     | 309                             |
| 5/1  | 280                             |
| 6/1  | 418                             |
| 6/2  | 660                             |
| 7/1  | 764                             |
| 8/1  | 298                             |
| 8/2  | 286                             |

Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 10.8 %        | 1909              | 1909                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 89.2 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 67.9 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 32.1 %        | 1841              | 1841                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 8: '2021 +Com Dev PM'** (FG8: '2021 + ComDev PM', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

|        | Destination |     |     |     |      |      |
|--------|-------------|-----|-----|-----|------|------|
|        | A           | B   | C   | D   | Tot. |      |
| Origin | A           | 0   | 79  | 447 | 128  | 654  |
|        | B           | 44  | 0   | 44  | 156  | 244  |
|        | C           | 645 | 96  | 0   | 317  | 1058 |
|        | D           | 197 | 219 | 268 | 0    | 684  |
|        | Tot.        | 886 | 394 | 759 | 601  | 2640 |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 8:<br>2021 +Com Dev PM |
|--|---------------------------------|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |                                 |
| 1/1  | 263                             |
| 1/2<br>(with short)                                | 391(In)<br>263(Out)             |
| 1/3<br>(short)                                     | 128                             |
| 2/1  | 44                              |
| 2/2<br>(with short)                                | 200(In)<br>156(Out)             |
| 2/3<br>(short)                                     | 44                              |
| 3/1<br>(short)                                     | 317                             |
| 3/2<br>(with short)                                | 640(In)<br>323(Out)             |
| 3/3<br>(with short)                                | 418(In)<br>322(Out)             |
| 3/4<br>(short)                                     | 96                              |
| 4/1<br>(with short)                                | 684(In)<br>416(Out)             |
| 4/2<br>(short)                                     | 268                             |
| 5/1  | 394                             |
| 6/1  | 228                             |
| 6/2  | 531                             |
| 7/1  | 601                             |
| 8/1  | 520                             |
| 8/2  | 366                             |

Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 30.0 %        | 1865              | 1865                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 70.0 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 52.6 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 47.4 %        | 1808              | 1808                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 9: '2021 +Com Dev + Ph2 AM'** (FG9: '2021 + ComDev + Ph2 AM', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

| Origin | Destination |     |      |     |      |  |
|--------|-------------|-----|------|-----|------|--|
|        | A           | B   | C    | D   | Tot. |  |
| A      | 0           | 40  | 702  | 214 | 956  |  |
| B      | 76          | 0   | 95   | 326 | 497  |  |
| C      | 461         | 54  | 0    | 220 | 735  |  |
| D      | 88          | 237 | 315  | 0   | 640  |  |
| Tot.   | 625         | 331 | 1112 | 760 | 2828 |  |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 9:<br>2021 +Com Dev + Ph2<br>AM |
|--|--|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |  |
| 1/1  | 371                                      |
| 1/2<br>(with short)                                | 585(In)<br>371(Out)                      |
| 1/3<br>(short)                                     | 214                                      |
| 2/1  | 95                                       |
| 2/2<br>(with short)                                | 402(In)<br>326(Out)                      |
| 2/3<br>(short)                                     | 76                                       |
| 3/1<br>(short)                                     | 220                                      |
| 3/2<br>(with short)                                | 451(In)<br>231(Out)                      |
| 3/3<br>(with short)                                | 284(In)<br>230(Out)                      |
| 3/4<br>(short)                                     | 54                                       |
| 4/1<br>(with short)                                | 640(In)<br>325(Out)                      |
| 4/2<br>(short)                                     | 315                                      |
| 5/1  | 331                                      |
| 6/1  | 426                                      |
| 6/2  | 686                                      |
| 7/1  | 760                                      |
| 8/1  | 319                                      |
| 8/2  | 306                                      |



Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 10.8 %        | 1909              | 1909                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 89.2 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 72.9 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 27.1 %        | 1852              | 1852                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 10: '2021 +Com Dev + Ph2 PM'** (FG10: '2021 + ComDev + Ph2 PM', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

|        | Destination |     |     |     |      |      |
|--------|-------------|-----|-----|-----|------|------|
|        | A           | B   | C   | D   | Tot. |      |
| Origin | A           | 0   | 77  | 445 | 126  | 648  |
|        | B           | 58  | 0   | 56  | 140  | 254  |
|        | C           | 696 | 93  | 0   | 319  | 1108 |
|        | D           | 197 | 240 | 283 | 0    | 720  |
|        | Tot.        | 951 | 410 | 784 | 585  | 2730 |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 10:<br>2021 +Com Dev + Ph2<br>PM |
|--|---|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |   |
| 1/1  | 261                                       |
| 1/2<br>(with short)                                | 387(In)<br>261(Out)                       |
| 1/3<br>(short)                                     | 126                                       |
| 2/1  | 56  |
| 2/2<br>(with short)                                | 198(In)<br>140(Out)                       |
| 2/3<br>(short)                                     | 58  |
| 3/1<br>(short)                                     | 319                                       |
| 3/2<br>(with short)                                | 667(In)<br>348(Out)                       |
| 3/3<br>(with short)                                | 441(In)<br>348(Out)                       |
| 3/4<br>(short)                                     | 93  |
| 4/1<br>(with short)                                | 720(In)<br>437(Out)                       |
| 4/2<br>(short)                                     | 283                                       |
| 5/1  | 410                                       |
| 6/1  | 240                                       |
| 6/2  | 544                                       |
| 7/1  | 585                                       |
| 8/1  | 545                                       |
| 8/2  | 406                                       |

Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 29.5 %        | 1866              | 1866                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 70.5 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 54.9 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 45.1 %        | 1813              | 1813                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 11: '2031 +Com Dev AM'** (FG11: '2031 AM + ComDev', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

| Origin | Destination |     |      |     |      |  |
|--------|-------------|-----|------|-----|------|--|
|        | A           | B   | C    | D   | Tot. |  |
| A      | 0           | 41  | 719  | 232 | 992  |  |
| B      | 83          | 0   | 115  | 358 | 556  |  |
| C      | 454         | 60  | 0    | 240 | 754  |  |
| D      | 96          | 202 | 337  | 0   | 635  |  |
| Tot.   | 633         | 303 | 1171 | 830 | 2937 |  |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 11:<br>2031 +Com Dev AM |
|--|----------------------------------|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |                                  |
| 1/1  | 380                              |
| 1/2<br>(with short)                                | 612(In)<br>380(Out)              |
| 1/3<br>(short)                                     | 232                              |
| 2/1  | 115                              |
| 2/2<br>(with short)                                | 441(In)<br>358(Out)              |
| 2/3<br>(short)                                     | 83                               |
| 3/1<br>(short)                                     | 240                              |
| 3/2<br>(with short)                                | 467(In)<br>227(Out)              |
| 3/3<br>(with short)                                | 287(In)<br>227(Out)              |
| 3/4<br>(short)                                     | 60                               |
| 4/1<br>(with short)                                | 635(In)<br>298(Out)              |
| 4/2<br>(short)                                     | 337                              |
| 5/1  | 303                              |
| 6/1  | 454                              |
| 6/2  | 717                              |
| 7/1  | 830                              |
| 8/1  | 323                              |
| 8/2  | 310                              |

Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 10.8 %        | 1909              | 1909                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 89.2 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 67.8 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 32.2 %        | 1841              | 1841                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 12: '2031 +Com Dev PM' (FG12: '2031 PM + Comdev', Plan 1: 'Network Control Plan 1')**

**Traffic Flows, Desired**

**Desired Flow :**

|        | Destination |     |     |     |      |      |
|--------|-------------|-----|-----|-----|------|------|
|        | A           | B   | C   | D   | Tot. |      |
| Origin | A           | 0   | 86  | 486 | 139  | 711  |
|        | B           | 50  | 0   | 48  | 172  | 270  |
|        | C           | 703 | 104 | 0   | 346  | 1153 |
|        | D           | 215 | 240 | 293 | 0    | 748  |
|        | Tot.        | 968 | 430 | 827 | 657  | 2882 |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 12:<br>2031 +Com Dev PM |
|--|----------------------------------|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |                                  |
| 1/1  | 286                              |
| 1/2<br>(with short)                                | 425(In)<br>286(Out)              |
| 1/3<br>(short)                                     | 139                              |
| 2/1  | 48                               |
| 2/2<br>(with short)                                | 222(In)<br>172(Out)              |
| 2/3<br>(short)                                     | 50                               |
| 3/1<br>(short)                                     | 346                              |
| 3/2<br>(with short)                                | 698(In)<br>352(Out)              |
| 3/3<br>(with short)                                | 455(In)<br>351(Out)              |
| 3/4<br>(short)                                     | 104                              |
| 4/1<br>(with short)                                | 748(In)<br>455(Out)              |
| 4/2<br>(short)                                     | 293                              |
| 5/1  | 430                              |
| 6/1  | 248                              |
| 6/2  | 579                              |
| 7/1  | 657                              |
| 8/1  | 567                              |
| 8/2  | 401                              |

Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 30.1 %        | 1865              | 1865                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 69.9 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 52.7 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 47.3 %        | 1808              | 1808                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 13: '2031 + All Dev (Stage 2 Mitigation) AM'** (FG13: '2031 + All Dev (Stage 2 Mitigation) AM', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

|        | Destination |     |     |      |      |      |
|--------|-------------|-----|-----|------|------|------|
|        | A           | B   | C   | D    | Tot. |      |
| Origin | A           | 0   | 62  | 772  | 232  | 1066 |
|        | B           | 82  | 0   | 85   | 362  | 529  |
|        | C           | 550 | 58  | 0    | 232  | 840  |
|        | D           | 96  | 243 | 343  | 0    | 682  |
|        | Tot.        | 728 | 363 | 1200 | 826  | 3117 |

Full Input Data And Results

**Traffic Lane Flows**

| Lane   | Scenario 13:<br>2031 + All Dev (Stage 2<br>Mitiagtion) AM |
|--|---|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |   |
| 1/1  | 417   |
| 1/2<br>(with short)                                | 649(In)<br>417(Out)                                       |
| 1/3<br>(short)                                     | 232   |
| 2/1  | 85  |
| 2/2<br>(with short)                                | 444(In)<br>362(Out)                                       |
| 2/3<br>(short)                                     | 82  |
| 3/1<br>(short)                                     | 232   |
| 3/2<br>(with short)                                | 507(In)<br>275(Out)                                       |
| 3/3<br>(with short)                                | 333(In)<br>275(Out)                                       |
| 3/4<br>(short)                                     | 58  |
| 4/1<br>(with short)                                | 682(In)<br>339(Out)                                       |
| 4/2<br>(short)                                     | 343   |
| 5/1  | 363   |
| 6/1  | 440   |
| 6/2  | 760   |
| 7/1  | 826   |
| 8/1  | 371   |
| 8/2  | 357   |



Full Input Data And Results

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 14.9 %        | 1900              | 1900                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 85.1 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 5 Ahead   | Inf                | 71.7 %        | 1850              | 1850                     |
|   |                          |          |               | Arm 8 Left    | 12.00              | 28.3 %        |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 14: '2031+ All Dev (Stage 2 Mitigation) PM'** (FG14: '2031 + All Dev (Stage 2 Mitigation) PM', Plan 1: 'Network Control Plan 1')

**Traffic Flows, Desired**

**Desired Flow :**

| Origin | Destination |     |     |     |      |  |
|--------|-------------|-----|-----|-----|------|--|
|        | A           | B   | C   | D   | Tot. |  |
| A      | 0           | 87  | 493 | 139 | 719  |  |
| B      | 96          | 0   | 62  | 143 | 301  |  |
| C      | 723         | 100 | 0   | 347 | 1170 |  |
| D      | 215         | 306 | 319 | 0   | 840  |  |
| Tot.   | 1034        | 493 | 874 | 629 | 3030 |  |

Full Input Data And Results

**Traffic Lane Flows**

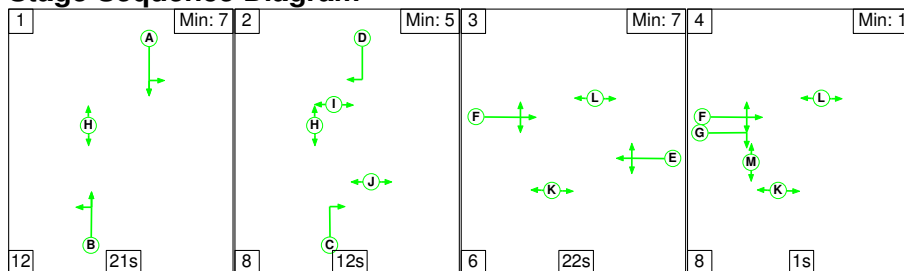
| Lane   | Scenario 14:<br>2031+ All Dev (Stage 2<br>Mitiagtion) PM |
|--|--|
| <b>Junction: A6030 Victoria Rd East / Gipsy Ln</b> |  |
| 1/1  | 290  |
| 1/2<br>(with short)                                | 429(In)<br>290(Out)                                      |
| 1/3<br>(short)                                     | 139  |
| 2/1  | 62   |
| 2/2<br>(with short)                                | 239(In)<br>143(Out)                                      |
| 2/3<br>(short)                                     | 96   |
| 3/1<br>(short)                                     | 347  |
| 3/2<br>(with short)                                | 709(In)<br>362(Out)                                      |
| 3/3<br>(with short)                                | 461(In)<br>361(Out)                                      |
| 3/4<br>(short)                                     | 100  |
| 4/1<br>(with short)                                | 840(In)<br>521(Out)                                      |
| 4/2<br>(short)                                     | 319  |
| 5/1  | 493  |
| 6/1  | 265  |
| 6/2  | 609  |
| 7/1  | 629  |
| 8/1  | 577  |
| 8/2  | 457  |

**Lane Saturation Flows**

| Junction: A6030 Victoria Rd East / Gipsy Ln |                          |          |               |               |                    |               |                   |                          |
|---|--------------------------|----------|---------------|---------------|--------------------|---------------|-------------------|--------------------------|
| 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>(A6030 VREE)                         | 3.20                     | 0.00     | Y             | Arm 5 Left    | 12.00              | 30.0 %        | 1865              | 1865                     |
|   |                          |          |               | Arm 6 Ahead   | Inf                | 70.0 %        |                   |                          |
| 1/2<br>(A6030 VREE)                         | 3.20                     | 0.00     | N             | Arm 6 Ahead   | Inf                | 100.0 %       | 2075              | 2075                     |
| 1/3<br>(A6030 VREE)                         | 3.00                     | 0.00     | Y             | Arm 7 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/1<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 6 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 2/2<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 7 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 2/3<br>(Gipsy Ln E)                         | 3.00                     | 0.00     | Y             | Arm 8 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/1<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 7 Left    | 12.00              | 100.0 %       | 1702              | 1702                     |
| 3/2<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 8 Ahead   | Inf                | 100.0 %       | 1915              | 1915                     |
| 3/3<br>(A6030 VRE S)                        | 3.00                     | 0.00     | N             | Arm 8 Ahead   | Inf                | 100.0 %       | 2055              | 2055                     |
| 3/4<br>(A6030 VRE S)                        | 3.00                     | 0.00     | Y             | Arm 5 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
|   |                          |          |               | Arm 5 Ahead   | Inf                | 58.7 %        |                   |                          |
| 4/1<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 8 Left    | 12.00              | 41.3 %        | 1821              | 1821                     |
|   |                          |          |               | Arm 6 Right   | 12.00              | 100.0 %       |                   |                          |
| 4/2<br>(Gipsy Ln W)                         | 3.00                     | 0.00     | Y             | Arm 6 Right   | 12.00              | 100.0 %       | 1702              | 1702                     |
| 5/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 6/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 7/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/1   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |
| 8/2   | Infinite Saturation Flow |          |               |               |                    |               | Inf               | Inf                      |

**Scenario 1: '2014 AM'** (FG1: '2014 AM Base', Plan 1: 'Network Control Plan 1')

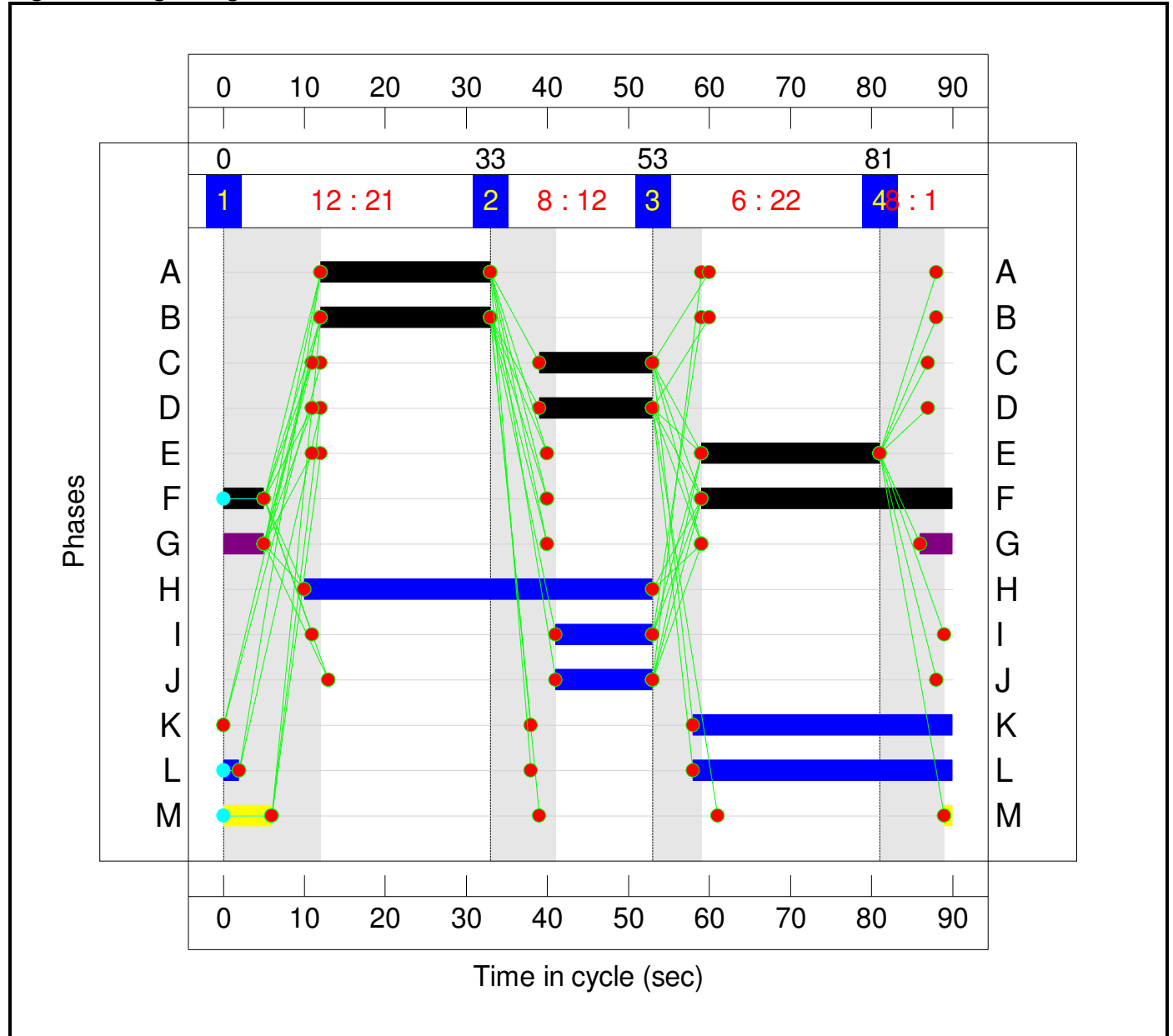
**Stage Sequence Diagram**



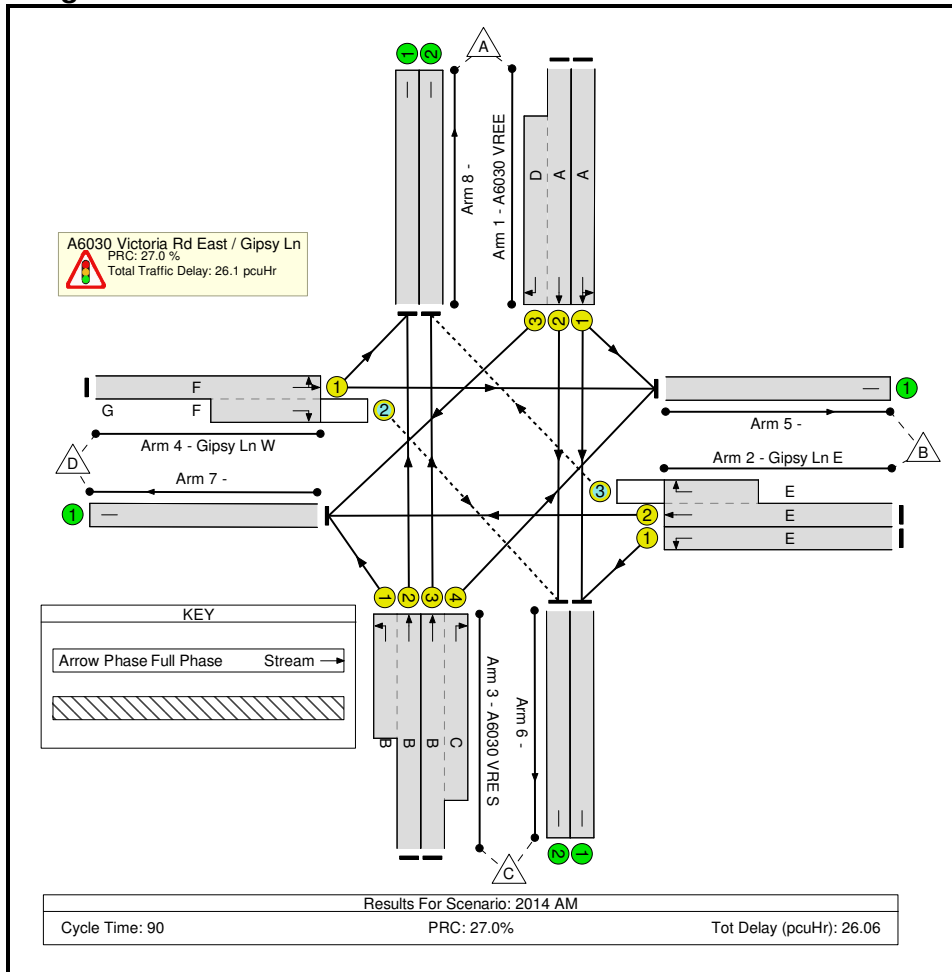
### Stage Timings

| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 21 | 12 | 22 | 1  |
| Change Point | 0  | 33 | 53 | 81 |

### Signal Timings Diagram



**Network Layout Diagram**



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 70.9%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 70.9%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 21              | -               | 328               | 1910              | 467            | 70.3%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 21:14           | -               | 529               | 2075:1702         | 507+284        | 64.7 : 70.9% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 22              | -               | 98                | 1702              | 435            | 22.5%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 22              | -               | 378               | 1915:1702         | 443+102        | 69.4 : 69.4% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 21              | -               | 405               | 1915:1702         | 352+371        | 56.0 : 56.0% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 21:14           | -               | 248               | 2055:1702         | 497+132        | 39.4 : 39.4% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 36              | 9               | 545               | 1841:1702         | 370+418        | 69.2 : 69.2% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 261               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 391               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 617               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 716               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 279               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 267               | Inf               | Inf            | 0.0%         |

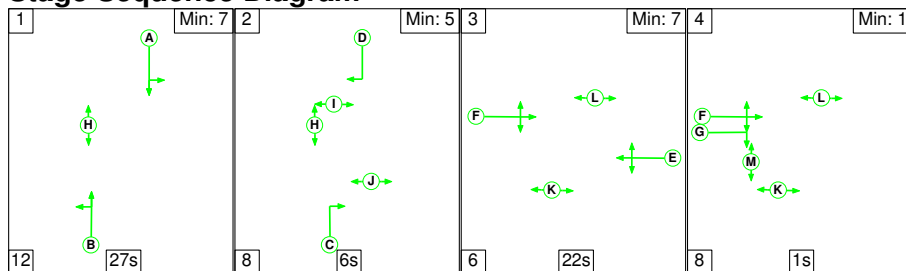
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 182                          | 169                          | 10                          | 19.8                                     | 5.5                          | 0.8                                | 26.1                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 182                          | 169                          | 10                          | 19.8                                     | 5.5                          | 0.8                                | 26.1                | -                         | -                                | -                          | -                    |
| 1/1   | 328            | 328           | -                            | -                            | -                           | 2.8                                      | 1.2                          | -                                  | 4.0                 | 43.8                      | 7.5                              | 1.2                        | 8.6                  |
| 1/2+1/3   | 529            | 529           | -                            | -                            | -                           | 4.8                                      | 1.0                          | -                                  | 5.8                 | 39.2                      | 7.3                              | 1.0                        | 8.3                  |
| 2/1   | 98             | 98            | -                            | -                            | -                           | 0.7                                      | 0.1                          | -                                  | 0.9                 | 31.8                      | 1.9                              | 0.1                        | 2.1                  |
| 2/2+2/3   | 378            | 378           | 71                           | 0                            | 0                           | 3.1                                      | 1.1                          | 0.1                                | 4.3                 | 41.0                      | 6.9                              | 1.1                        | 8.0                  |
| 3/2+3/1   | 405            | 405           | -                            | -                            | -                           | 3.3                                      | 0.6                          | -                                  | 3.9                 | 34.6                      | 4.4                              | 0.6                        | 5.1                  |
| 3/3+3/4   | 248            | 248           | -                            | -                            | -                           | 2.0                                      | 0.3                          | -                                  | 2.3                 | 33.9                      | 4.1                              | 0.3                        | 4.4                  |
| 4/1+4/2   | 545            | 545           | 111                          | 169                          | 10                          | 3.2                                      | 1.1                          | 0.6                                | 4.9                 | 32.4                      | 6.3                              | 1.1                        | 7.5                  |
| 5/1   | 261            | 261           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 391            | 391           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 617            | 617           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 716            | 716           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 279            | 279           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 267            | 267           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 27.0                        | Total Delay for Signalled Lanes (pcuHr): |                              | 26.06                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 27.0                        | Total Delay Over All Lanes(pcuHr):       |                              | 26.06                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 2: '2014 PM' (FG2: '2014 PM Base', Plan 1: 'Network Control Plan 1')

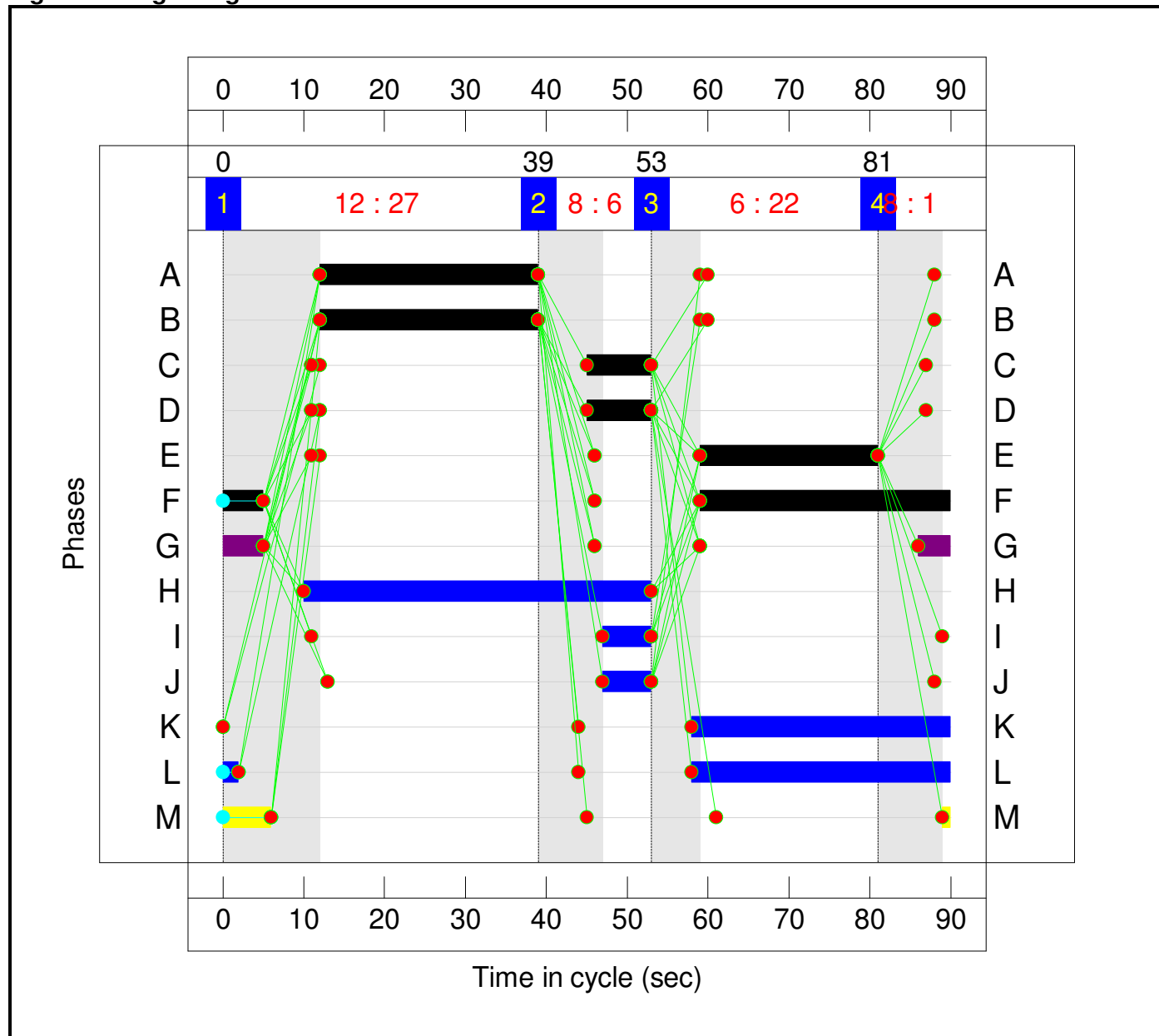
Stage Sequence Diagram



Stage Timings

| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 27 | 6  | 22 | 1  |
| Change Point | 0  | 39 | 53 | 81 |

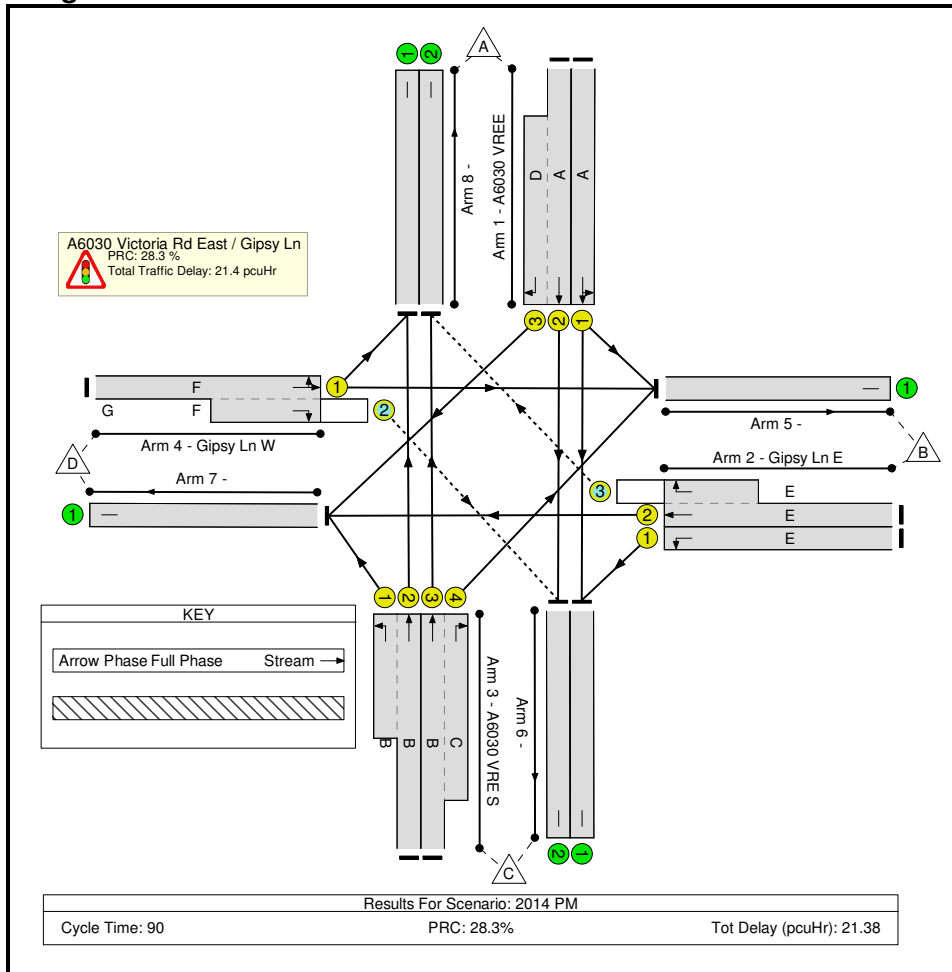
Signal Timings Diagram





Full Input Data And Results

Network Layout Diagram



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 70.1%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 70.1%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 27              | -               | 246               | 1865              | 580            | 42.4%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 27:8            | -               | 365               | 2075:1702         | 640+170        | 38.4 : 69.9% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 22              | -               | 41                | 1702              | 435            | 9.4%         |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 22              | -               | 187               | 1915:1702         | 434+122        | 33.6 : 33.6% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 27              | -               | 598               | 1915:1702         | 438+429        | 69.0 : 69.0% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 27:8            | -               | 390               | 2055:1702         | 598+170        | 50.4 : 52.3% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 36              | 9               | 639               | 1808:1702         | 555+356        | 70.1 : 70.1% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 368               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 213               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 496               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 561               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 486               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 342               | Inf               | Inf            | 0.0%         |

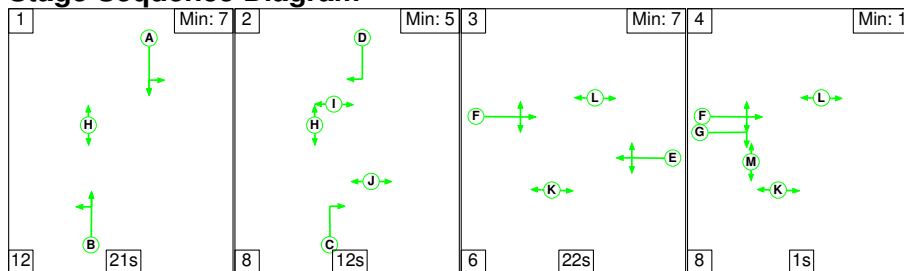
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 249                          | 33                           | 8                           | 17.1                                     | 3.9                          | 0.4                                | 21.4                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 249                          | 33                           | 8                           | 17.1                                     | 3.9                          | 0.4                                | 21.4                | -                         | -                                | -                          | -                    |
| 1/1   | 246            | 246           | -                            | -                            | -                           | 1.7                                      | 0.4                          | -                                  | 2.0                 | 30.0                      | 4.9                              | 0.4                        | 5.2                  |
| 1/2+1/3   | 365            | 365           | -                            | -                            | -                           | 3.0                                      | 0.4                          | -                                  | 3.4                 | 33.1                      | 4.8                              | 0.4                        | 5.2                  |
| 2/1   | 41             | 41            | -                            | -                            | -                           | 0.3                                      | 0.1                          | -                                  | 0.3                 | 30.2                      | 0.8                              | 0.1                        | 0.8                  |
| 2/2+2/3   | 187            | 187           | 41                           | 0                            | 0                           | 1.4                                      | 0.3                          | 0.1                                | 1.8                 | 34.3                      | 2.9                              | 0.3                        | 3.2                  |
| 3/2+3/1   | 598            | 598           | -                            | -                            | -                           | 4.3                                      | 1.1                          | -                                  | 5.4                 | 32.2                      | 6.2                              | 1.1                        | 7.3                  |
| 3/3+3/4   | 390            | 390           | -                            | -                            | -                           | 3.0                                      | 0.5                          | -                                  | 3.6                 | 32.8                      | 6.0                              | 0.5                        | 6.5                  |
| 4/1+4/2   | 639            | 639           | 208                          | 33                           | 8                           | 3.5                                      | 1.2                          | 0.3                                | 4.9                 | 27.8                      | 7.7                              | 1.2                        | 8.9                  |
| 5/1   | 368            | 368           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 213            | 213           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 496            | 496           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 561            | 561           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 486            | 486           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 342            | 342           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 28.3                        | Total Delay for Signalled Lanes (pcuHr): |                              | 21.38                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 28.3                        | Total Delay Over All Lanes(pcuHr):       |                              | 21.38                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 3: '2016 +Com Dev AM' (FG3: '2016 + ComDev AM', Plan 1: 'Network Control Plan 1')

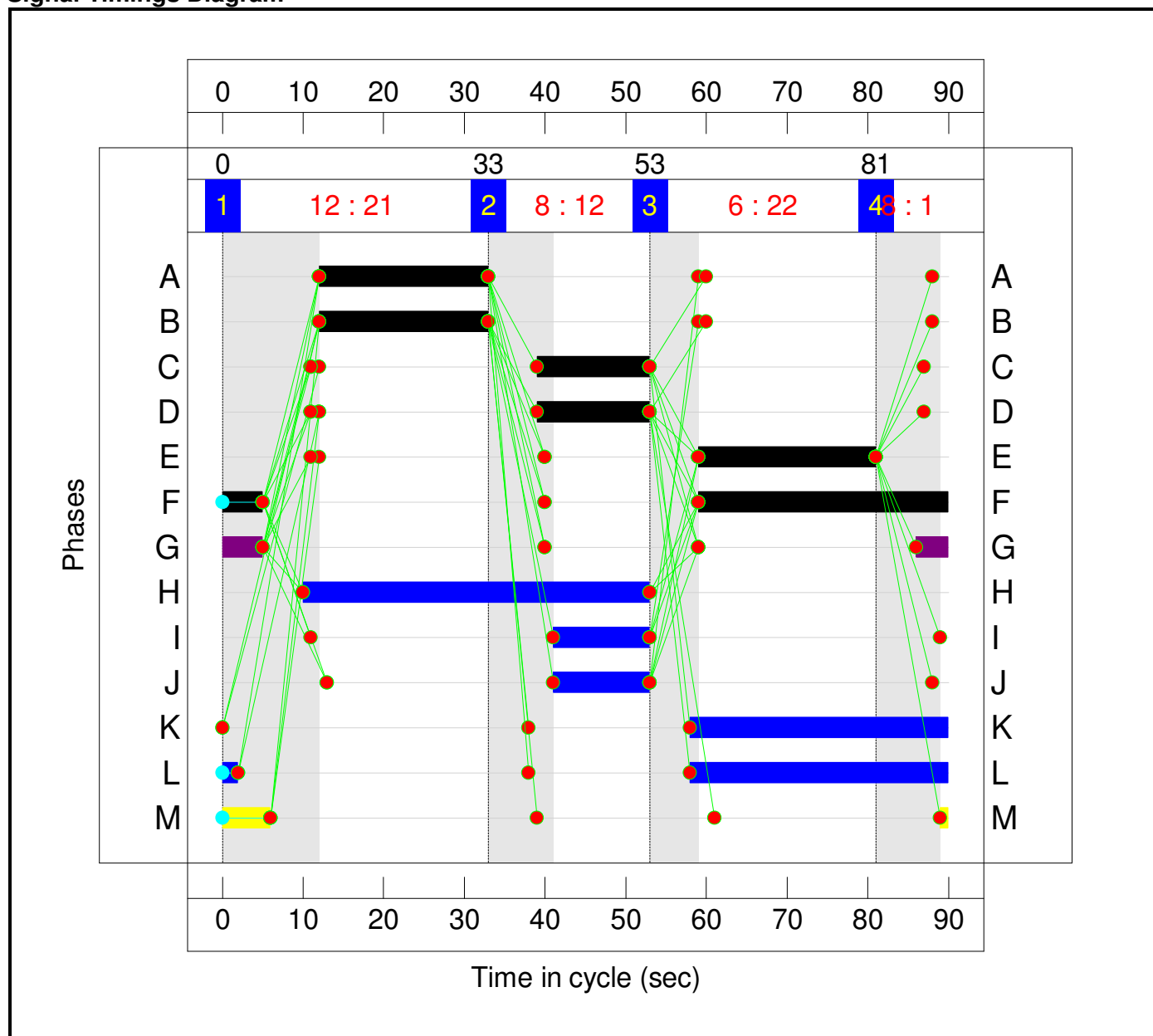
Stage Sequence Diagram



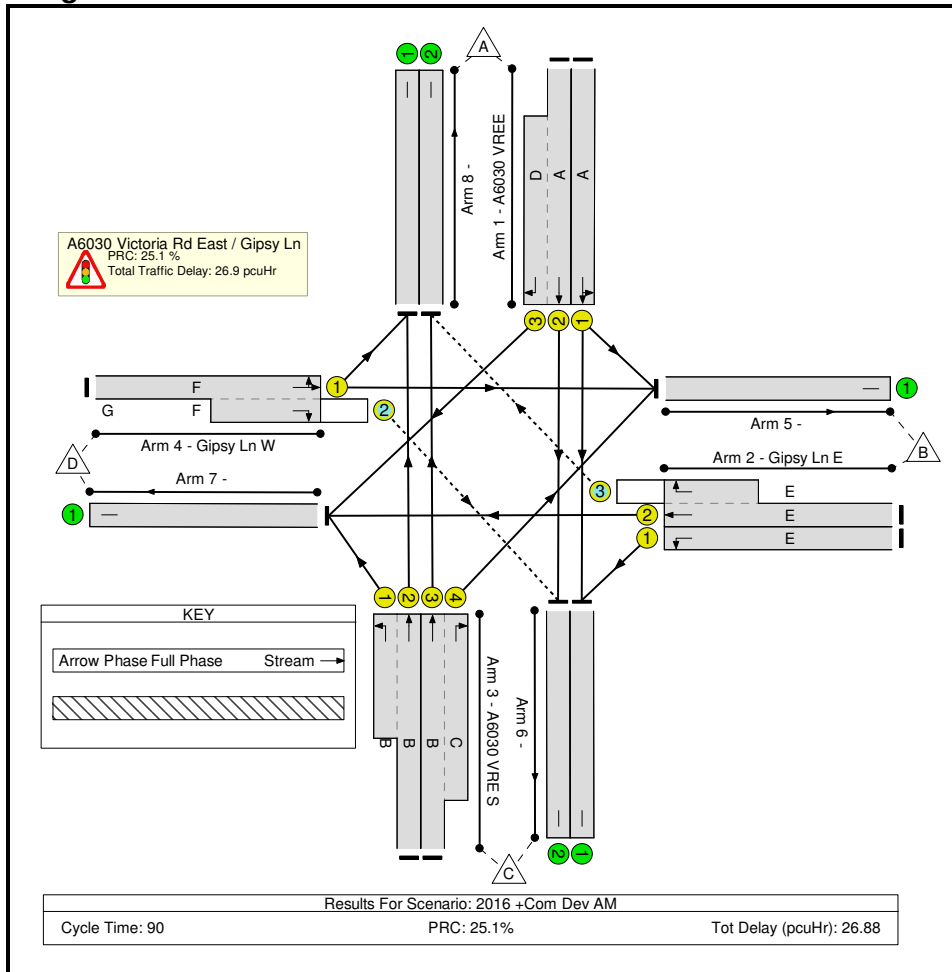
Stage Timings

| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 21 | 12 | 22 | 1  |
| Change Point | 0  | 33 | 53 | 81 |

Signal Timings Diagram



**Network Layout Diagram**



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 71.9%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 71.9%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 21              | -               | 334               | 1909              | 467            | 71.6%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 21:14           | -               | 538               | 2075:1702         | 507+284        | 65.8 : 71.9% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 22              | -               | 100               | 1702              | 435            | 23.0%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 22              | -               | 386               | 1915:1702         | 442+103        | 70.8 : 70.8% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 21              | -               | 411               | 1915:1702         | 352+371        | 56.8 : 56.8% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 21:14           | -               | 253               | 2055:1702         | 497+132        | 40.2 : 40.2% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 36              | 9               | 555               | 1841:1702         | 366+412        | 71.4 : 71.4% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 266               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 398               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 628               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 728               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 284               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 273               | Inf               | Inf            | 0.0%         |

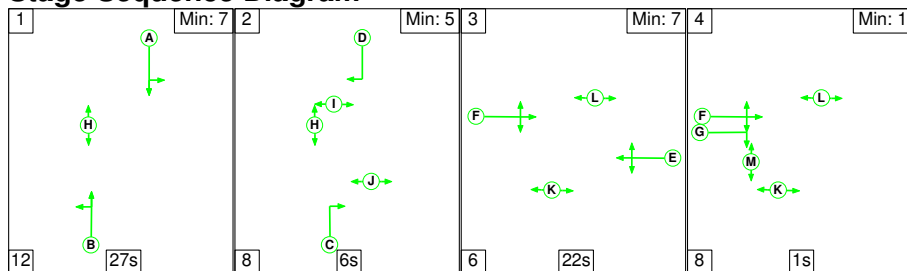
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 178                          | 179                          | 10                          | 20.2                                     | 5.9                          | 0.8                                | 26.9                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 178                          | 179                          | 10                          | 20.2                                     | 5.9                          | 0.8                                | 26.9                | -                         | -                                | -                          | -                    |
| 1/1   | 334            | 334           | -                            | -                            | -                           | 2.9                                      | 1.2                          | -                                  | 4.1                 | 44.5                      | 7.6                              | 1.2                        | 8.8                  |
| 1/2+1/3   | 538            | 538           | -                            | -                            | -                           | 4.9                                      | 1.1                          | -                                  | 5.9                 | 39.5                      | 7.5                              | 1.1                        | 8.6                  |
| 2/1   | 100            | 100           | -                            | -                            | -                           | 0.7                                      | 0.1                          | -                                  | 0.9                 | 31.9                      | 2.0                              | 0.1                        | 2.1                  |
| 2/2+2/3   | 386            | 386           | 73                           | 0                            | 0                           | 3.1                                      | 1.2                          | 0.1                                | 4.5                 | 41.6                      | 7.2                              | 1.2                        | 8.4                  |
| 3/2+3/1   | 411            | 411           | -                            | -                            | -                           | 3.3                                      | 0.7                          | -                                  | 4.0                 | 34.8                      | 4.5                              | 0.7                        | 5.2                  |
| 3/3+3/4   | 253            | 253           | -                            | -                            | -                           | 2.1                                      | 0.3                          | -                                  | 2.4                 | 34.0                      | 4.2                              | 0.3                        | 4.5                  |
| 4/1+4/2   | 555            | 555           | 105                          | 179                          | 10                          | 3.2                                      | 1.2                          | 0.7                                | 5.1                 | 33.3                      | 6.5                              | 1.2                        | 7.7                  |
| 5/1   | 266            | 266           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 398            | 398           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 628            | 628           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 728            | 728           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 284            | 284           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 273            | 273           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 25.1                        | Total Delay for Signalled Lanes (pcuHr): |                              | 26.88                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 25.1                        | Total Delay Over All Lanes(pcuHr):       |                              | 26.88                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 4: '2016 +Com Dev PM' (FG4: '2016 + ComDev PM', Plan 1: 'Network Control Plan 1')

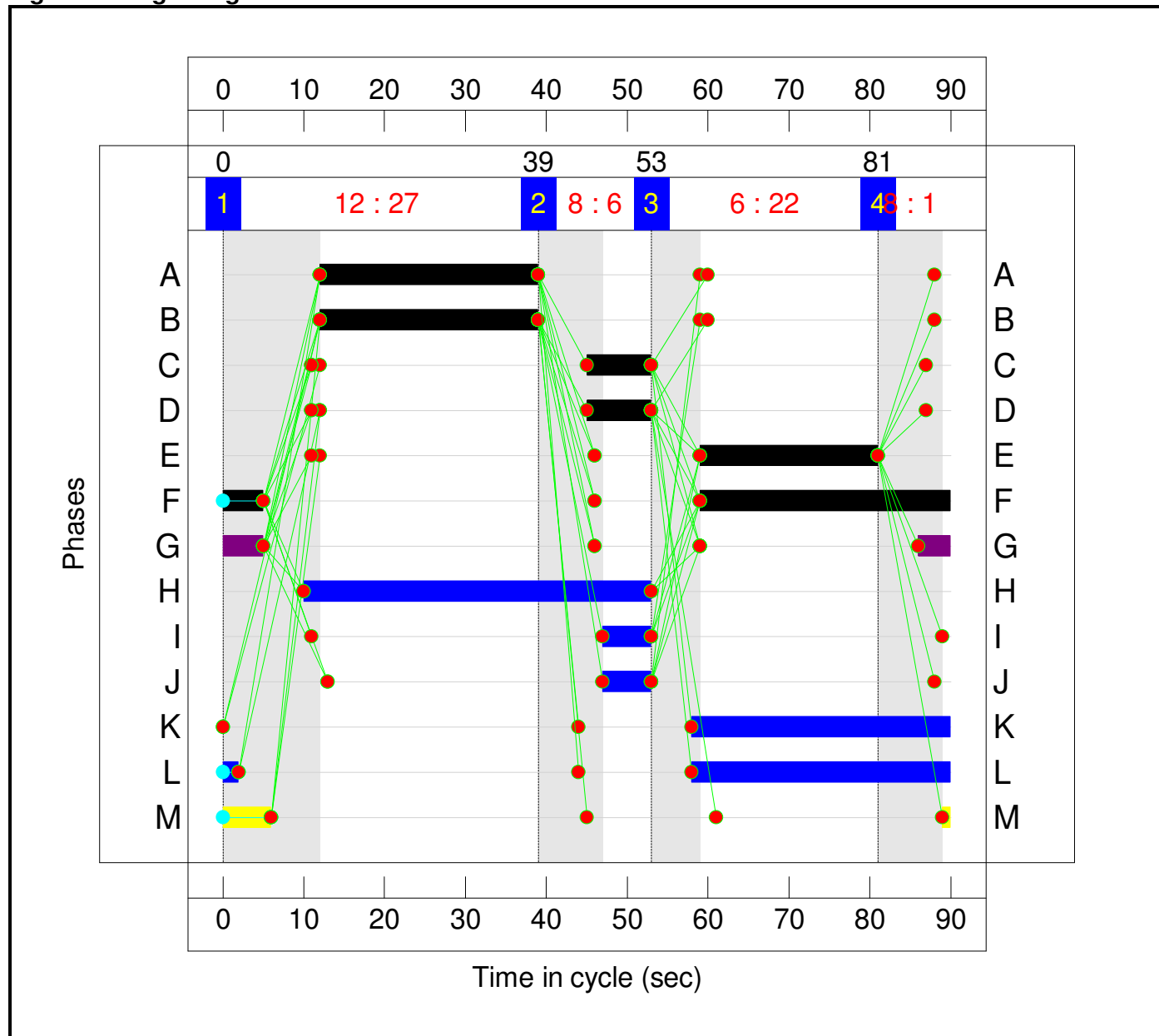
Stage Sequence Diagram



Stage Timings

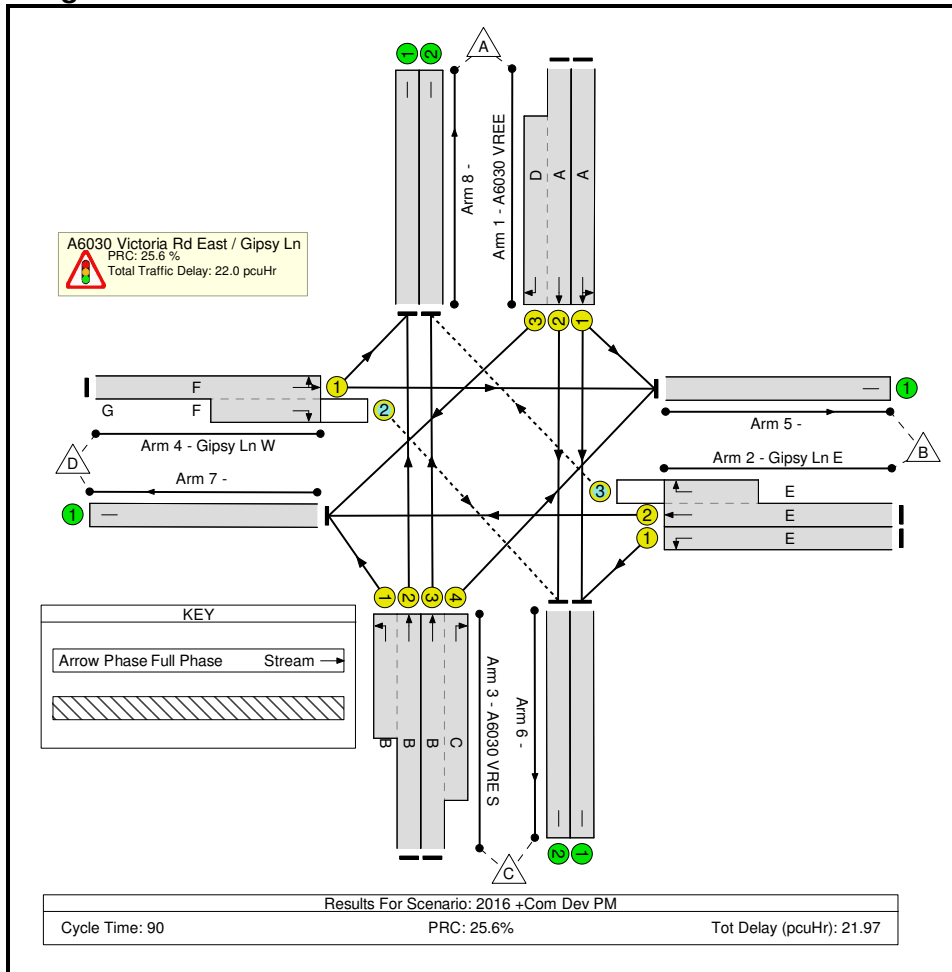
| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 27 | 6  | 22 | 1  |
| Change Point | 0  | 39 | 53 | 81 |

Signal Timings Diagram





**Network Layout Diagram**



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 71.7%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 71.7%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 27              | -               | 251               | 1864              | 580            | 43.3%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 27:8            | -               | 372               | 2075:1702         | 640+170        | 39.1 : 71.7% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 22              | -               | 42                | 1702              | 435            | 9.7%         |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 22              | -               | 190               | 1915:1702         | 434+123        | 34.1 : 34.1% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 27              | -               | 608               | 1915:1702         | 438+429        | 70.1 : 70.1% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 27:8            | -               | 398               | 2055:1702         | 598+170        | 51.4 : 53.5% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 36              | 9               | 651               | 1808:1702         | 554+357        | 71.4 : 71.4% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 376               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 217               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 505               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 571               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 494               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 349               | Inf               | Inf            | 0.0%         |

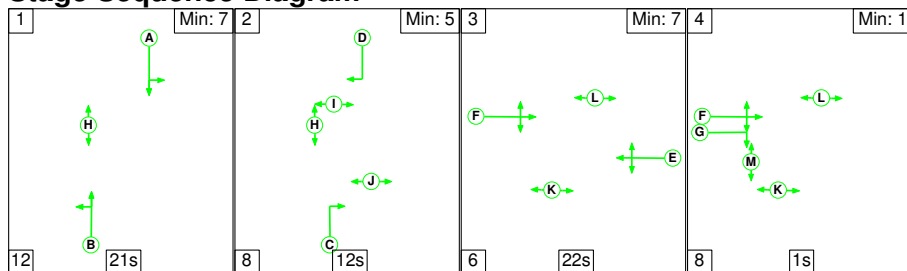
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 255                          | 34                           | 8                           | 17.5                                     | 4.1                          | 0.4                                | 22.0                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 255                          | 34                           | 8                           | 17.5                                     | 4.1                          | 0.4                                | 22.0                | -                         | -                                | -                          | -                    |
| 1/1   | 251            | 251           | -                            | -                            | -                           | 1.7                                      | 0.4                          | -                                  | 2.1                 | 30.1                      | 5.0                              | 0.4                        | 5.3                  |
| 1/2+1/3   | 372            | 372           | -                            | -                            | -                           | 3.0                                      | 0.4                          | -                                  | 3.4                 | 33.3                      | 4.9                              | 0.4                        | 5.3                  |
| 2/1   | 42             | 42            | -                            | -                            | -                           | 0.3                                      | 0.1                          | -                                  | 0.4                 | 30.2                      | 0.8                              | 0.1                        | 0.8                  |
| 2/2+2/3   | 190            | 190           | 42                           | 0                            | 0                           | 1.4                                      | 0.3                          | 0.1                                | 1.8                 | 34.4                      | 3.0                              | 0.3                        | 3.2                  |
| 3/2+3/1   | 608            | 608           | -                            | -                            | -                           | 4.3                                      | 1.2                          | -                                  | 5.5                 | 32.6                      | 6.3                              | 1.2                        | 7.4                  |
| 3/3+3/4   | 398            | 398           | -                            | -                            | -                           | 3.1                                      | 0.5                          | -                                  | 3.7                 | 33.0                      | 6.1                              | 0.5                        | 6.7                  |
| 4/1+4/2   | 651            | 651           | 212                          | 34                           | 8                           | 3.6                                      | 1.2                          | 0.3                                | 5.1                 | 28.2                      | 7.9                              | 1.2                        | 9.1                  |
| 5/1   | 376            | 376           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 217            | 217           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 505            | 505           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 571            | 571           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 494            | 494           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 349            | 349           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 25.6                        | Total Delay for Signalled Lanes (pcuHr): |                              | 21.97                              | Cycle Time (s): 90  |                           |                                  |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 25.6                        | Total Delay Over All Lanes(pcuHr):       |                              | 21.97                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 5: '2016 +Com Dev + Ph1 AM' (FG5: '2016 + ComDev +Ph1 AM', Plan 1: 'Network Control Plan 1')

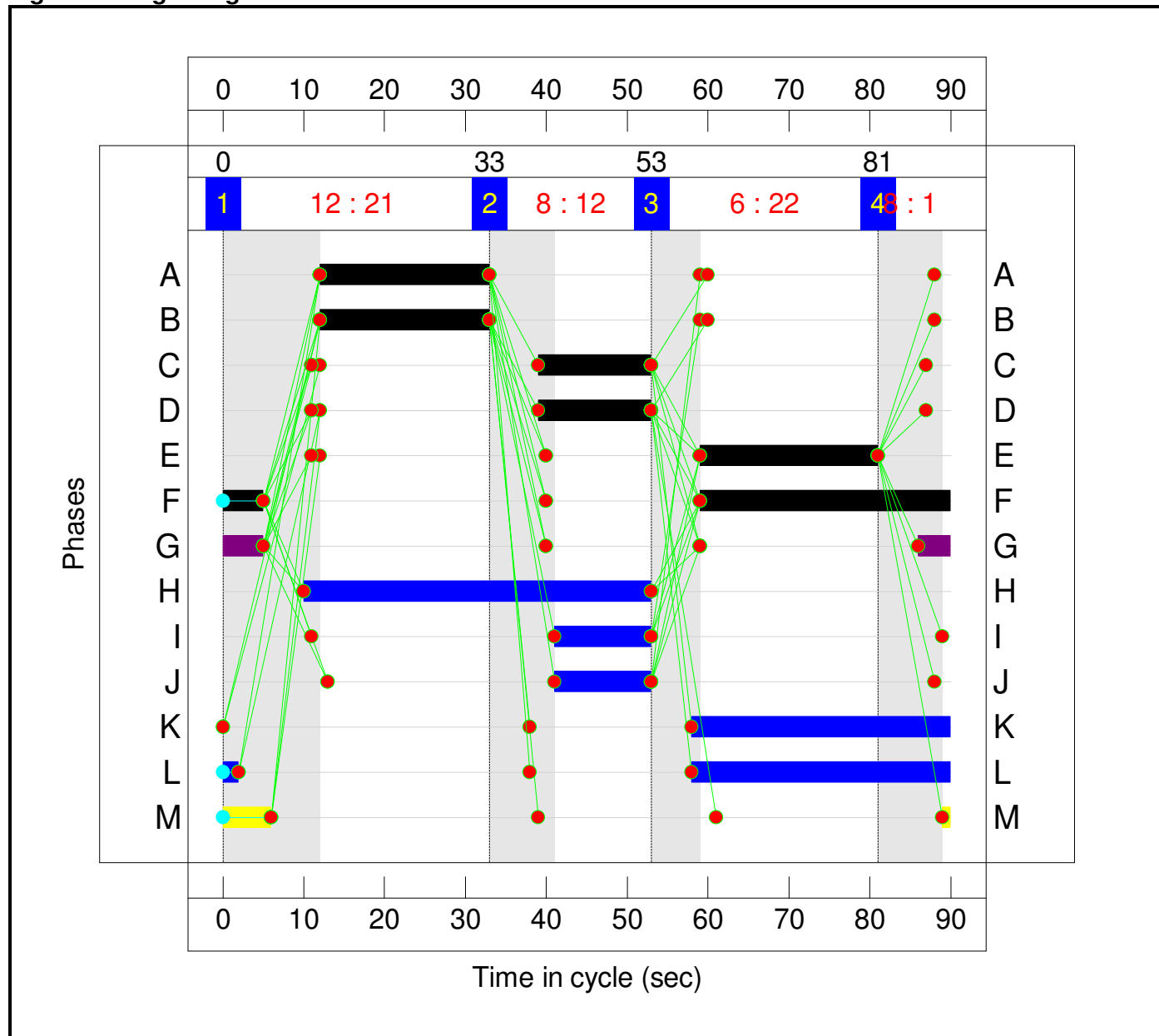
Stage Sequence Diagram



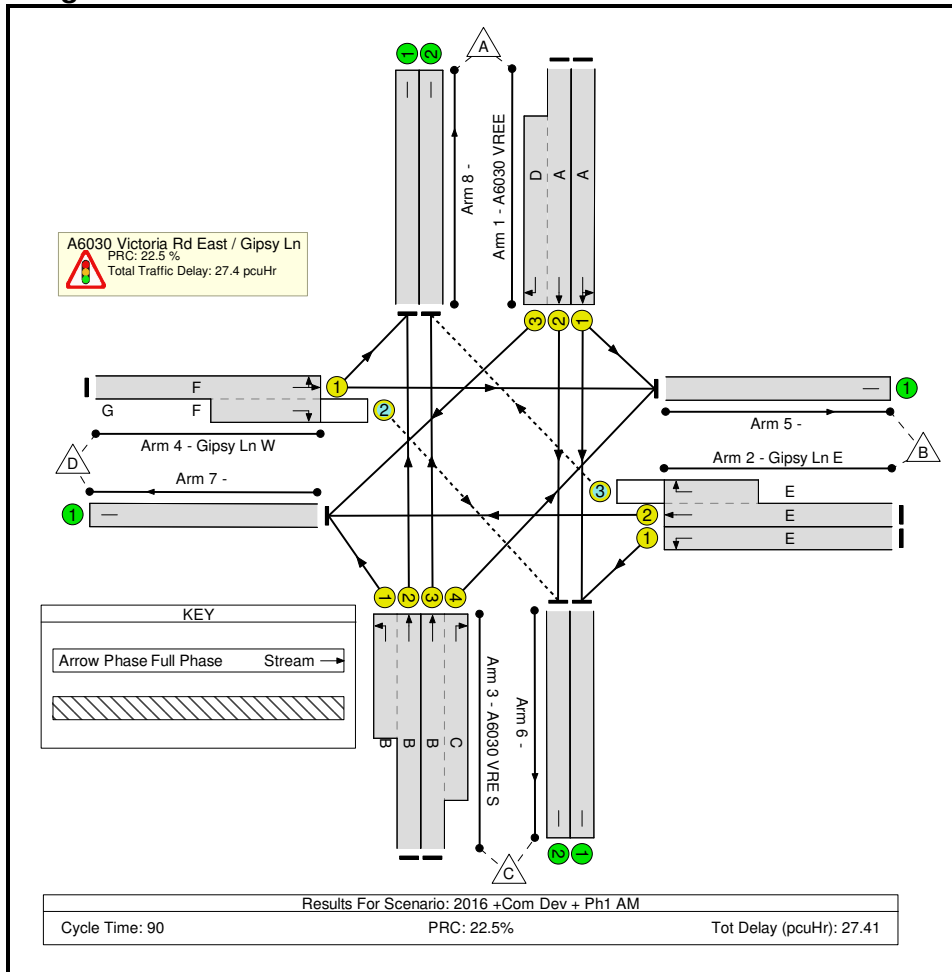
Stage Timings

| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 21 | 12 | 22 | 1  |
| Change Point | 0  | 33 | 53 | 81 |

Signal Timings Diagram



Network Layout Diagram



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 73.5%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 73.5%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 21              | -               | 344               | 1915              | 468            | 73.5%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 21:14           | -               | 547               | 2075:1702         | 507+284        | 67.6 : 71.9% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 22              | -               | 98                | 1702              | 435            | 22.5%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 22              | -               | 381               | 1915:1702         | 442+103        | 69.9 : 69.9% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 21              | -               | 418               | 1915:1702         | 348+372        | 58.1 : 58.1% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 21:14           | -               | 253               | 2055:1702         | 497+129        | 40.4 : 40.4% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 36              | 9               | 580               | 1846:1702         | 394+416        | 71.6 : 71.6% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 279               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 413               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 641               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 729               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 286               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 273               | Inf               | Inf            | 0.0%         |

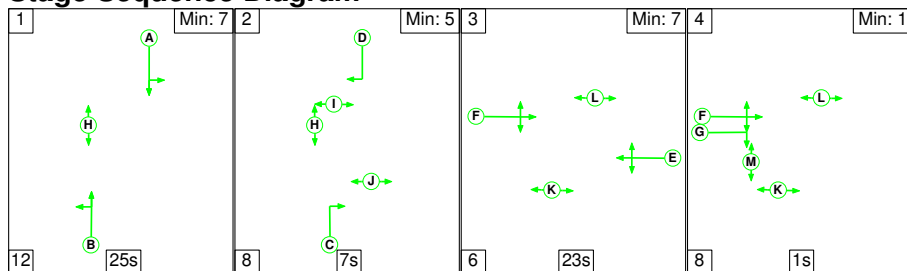
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 182                          | 179                          | 10                          | 20.6                                     | 6.0                          | 0.8                                | 27.4                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 182                          | 179                          | 10                          | 20.6                                     | 6.0                          | 0.8                                | 27.4                | -                         | -                                | -                          | -                    |
| 1/1   | 344            | 344           | -                            | -                            | -                           | 3.0                                      | 1.4                          | -                                  | 4.3                 | 45.5                      | 7.8                              | 1.4                        | 9.2                  |
| 1/2+1/3   | 547            | 547           | -                            | -                            | -                           | 4.9                                      | 1.1                          | -                                  | 6.1                 | 39.9                      | 7.7                              | 1.1                        | 8.8                  |
| 2/1   | 98             | 98            | -                            | -                            | -                           | 0.7                                      | 0.1                          | -                                  | 0.9                 | 31.8                      | 1.9                              | 0.1                        | 2.1                  |
| 2/2+2/3   | 381            | 381           | 72                           | 0                            | 0                           | 3.1                                      | 1.1                          | 0.2                                | 4.4                 | 41.4                      | 7.1                              | 1.1                        | 8.2                  |
| 3/2+3/1   | 418            | 418           | -                            | -                            | -                           | 3.4                                      | 0.7                          | -                                  | 4.1                 | 35.0                      | 4.6                              | 0.7                        | 5.3                  |
| 3/3+3/4   | 253            | 253           | -                            | -                            | -                           | 2.1                                      | 0.3                          | -                                  | 2.4                 | 34.1                      | 4.2                              | 0.3                        | 4.5                  |
| 4/1+4/2   | 580            | 580           | 110                          | 179                          | 10                          | 3.4                                      | 1.2                          | 0.6                                | 5.3                 | 32.9                      | 6.5                              | 1.2                        | 7.8                  |
| 5/1   | 279            | 279           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 413            | 413           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 641            | 641           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 729            | 729           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 286            | 286           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 273            | 273           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 22.5                        | Total Delay for Signalled Lanes (pcuHr): |                              | 27.41                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 22.5                        | Total Delay Over All Lanes(pcuHr):       |                              | 27.41                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 6: '2016 +Com Dev + Ph1 PM' (FG6: '2016 + ComDev +Ph1 PM', Plan 1: 'Network Control Plan 1')

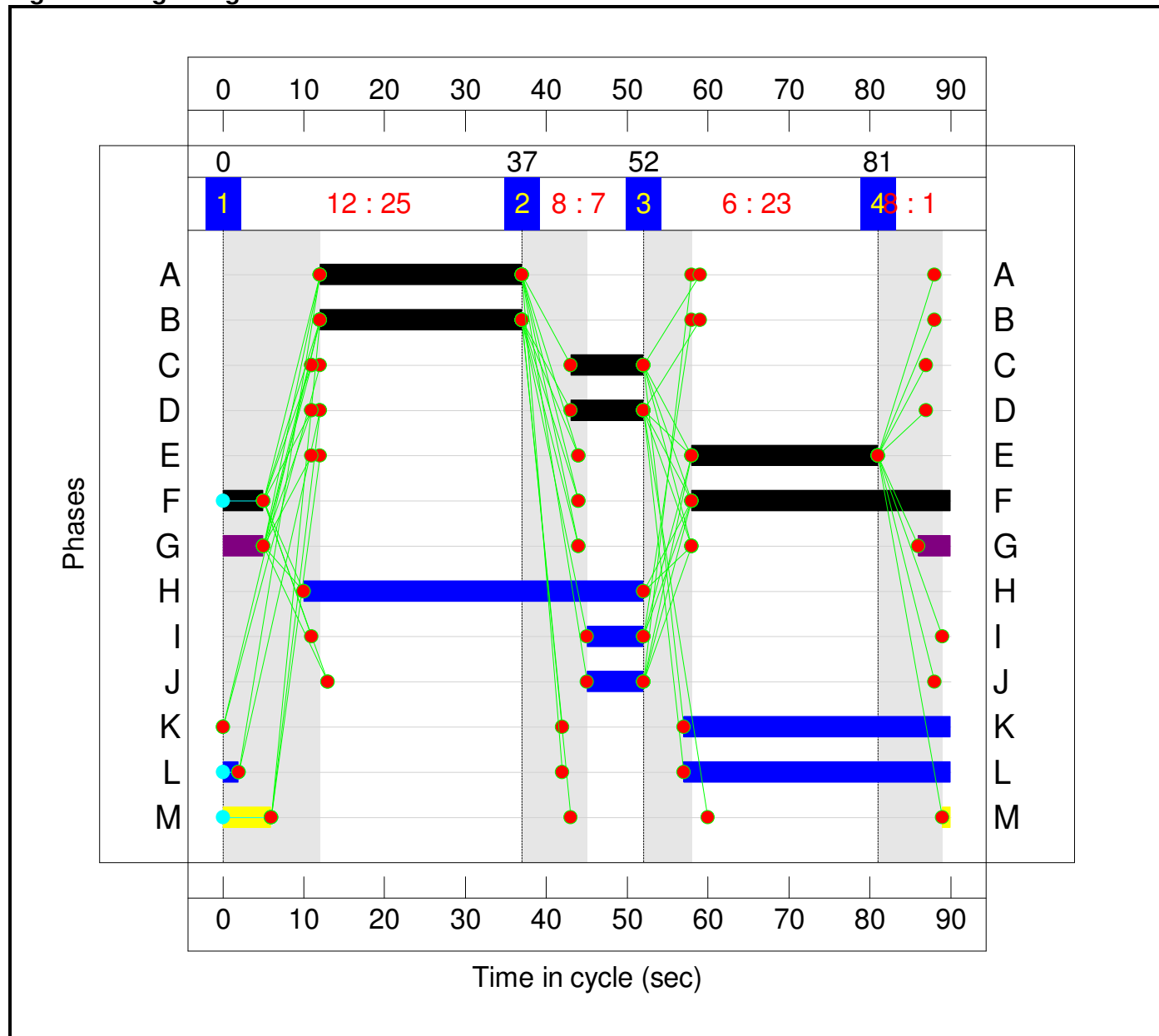
Stage Sequence Diagram



Stage Timings

| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 25 | 7  | 23 | 1  |
| Change Point | 0  | 37 | 52 | 81 |

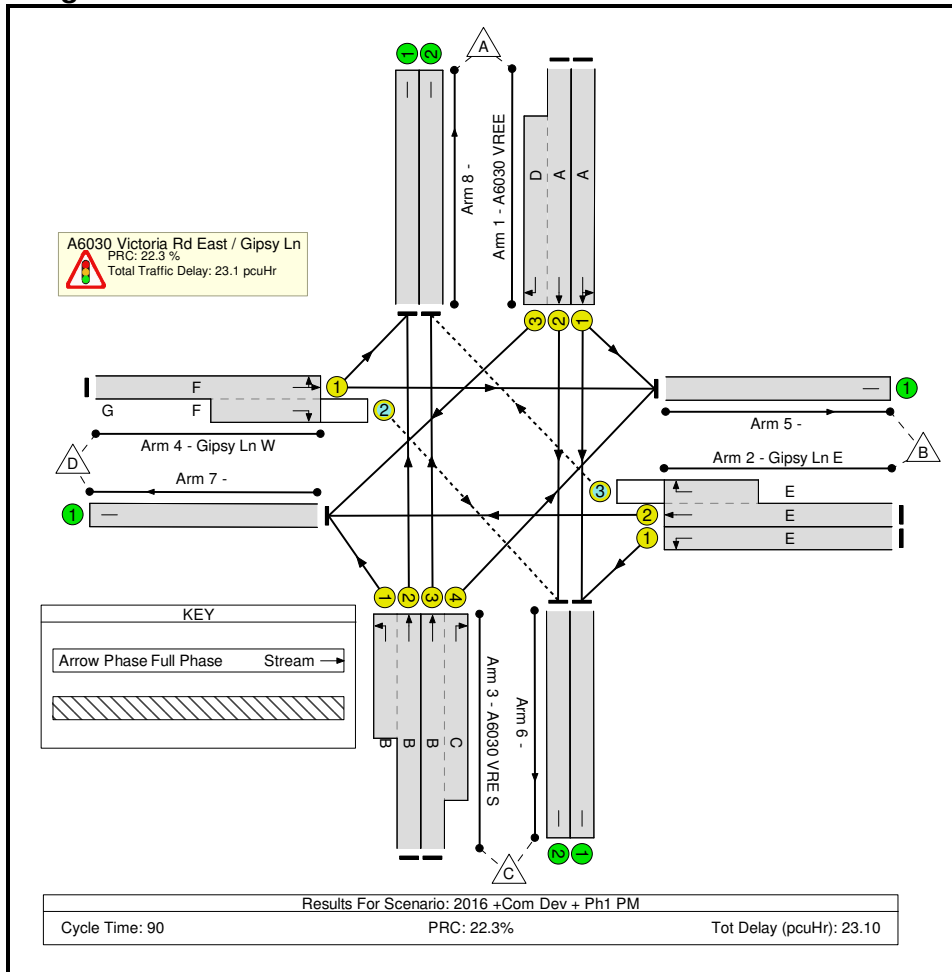
Signal Timings Diagram





# Full Input Data And Results

## Network Layout Diagram



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 73.6%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 73.6%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 25              | -               | 258               | 1867              | 539            | 47.8%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 25:9            | -               | 387               | 2075:1702         | 599+189        | 43.0 : 68.2% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 23              | -               | 34                | 1702              | 454            | 7.5%         |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 23              | -               | 185               | 1915:1702         | 454+117        | 32.4 : 32.4% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 25              | -               | 609               | 1915:1702         | 419+409        | 73.6 : 73.6% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 25:9            | -               | 393               | 2055:1702         | 566+156        | 54.5 : 54.5% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 37              | 9               | 677               | 1814:1702         | 574+349        | 73.4 : 73.4% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 394               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 217               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 514               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 577               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 495               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 346               | Inf               | Inf            | 0.0%         |

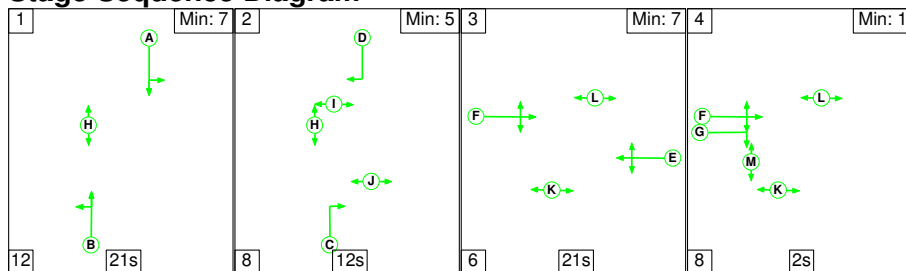
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 251                          | 34                           | 9                           | 18.1                                     | 4.6                          | 0.4                                | 23.1                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 251                          | 34                           | 9                           | 18.1                                     | 4.6                          | 0.4                                | 23.1                | -                         | -                                | -                          | -                    |
| 1/1   | 258            | 258           | -                            | -                            | -                           | 1.9                                      | 0.5                          | -                                  | 2.3                 | 32.8                      | 5.3                              | 0.5                        | 5.8                  |
| 1/2+1/3   | 387            | 387           | -                            | -                            | -                           | 3.2                                      | 0.5                          | -                                  | 3.7                 | 34.6                      | 5.2                              | 0.5                        | 5.7                  |
| 2/1   | 34             | 34            | -                            | -                            | -                           | 0.2                                      | 0.0                          | -                                  | 0.3                 | 29.0                      | 0.6                              | 0.0                        | 0.7                  |
| 2/2+2/3   | 185            | 185           | 38                           | 0                            | 0                           | 1.3                                      | 0.2                          | 0.1                                | 1.7                 | 33.4                      | 2.9                              | 0.2                        | 3.1                  |
| 3/2+3/1   | 609            | 609           | -                            | -                            | -                           | 4.6                                      | 1.4                          | -                                  | 6.0                 | 35.5                      | 6.5                              | 1.4                        | 7.9                  |
| 3/3+3/4   | 393            | 393           | -                            | -                            | -                           | 3.2                                      | 0.6                          | -                                  | 3.8                 | 34.5                      | 6.4                              | 0.6                        | 7.0                  |
| 4/1+4/2   | 677            | 677           | 213                          | 34                           | 9                           | 3.6                                      | 1.4                          | 0.3                                | 5.3                 | 28.0                      | 8.9                              | 1.4                        | 10.2                 |
| 5/1   | 394            | 394           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 217            | 217           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 514            | 514           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 577            | 577           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 495            | 495           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 346            | 346           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 22.3                        | Total Delay for Signalled Lanes (pcuHr): |                              | 23.10                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 22.3                        | Total Delay Over All Lanes(pcuHr):       |                              | 23.10                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 7: '2021 +Com Dev AM' (FG7: '2021 + ComDev AM', Plan 1: 'Network Control Plan 1')

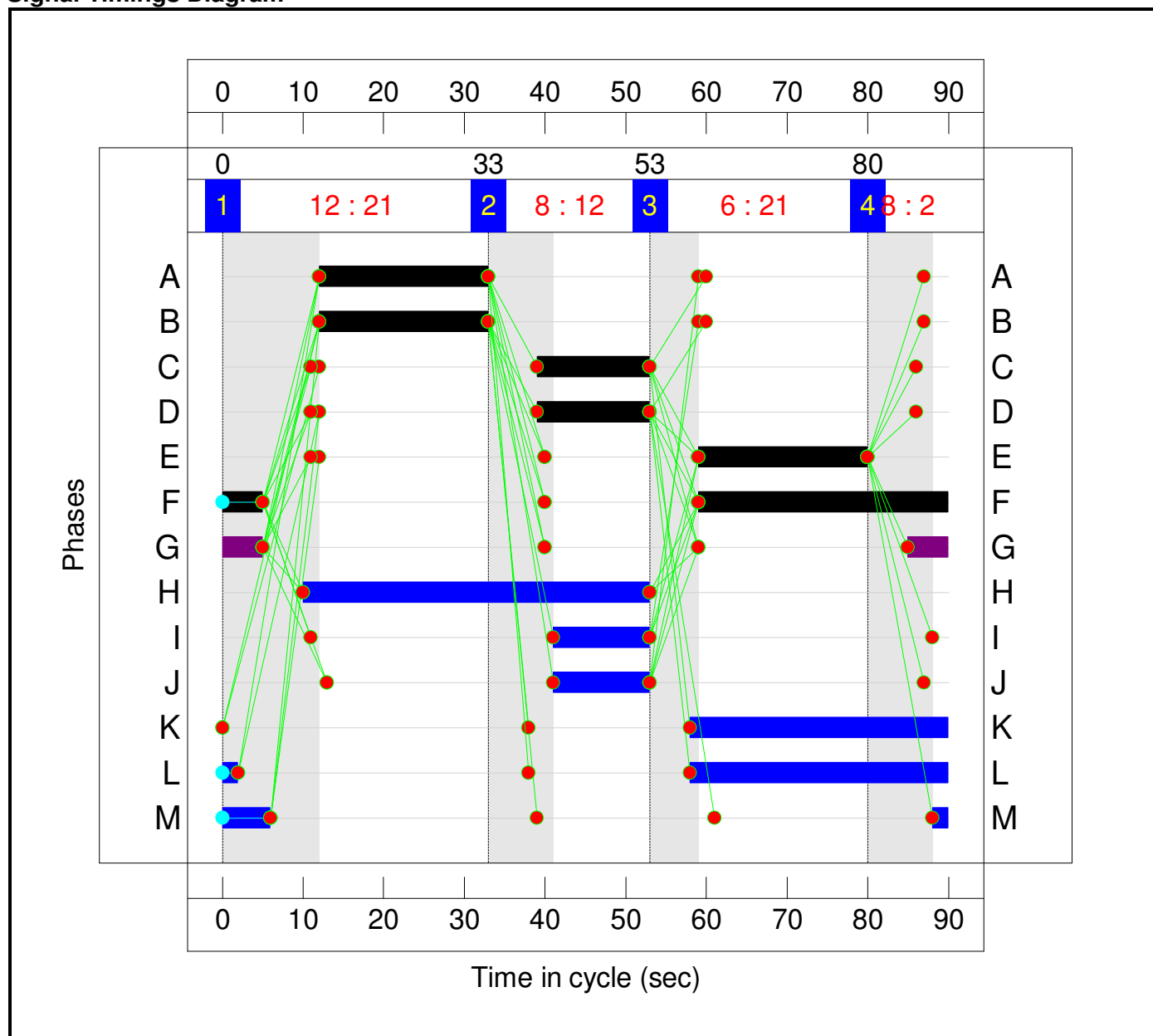
Stage Sequence Diagram



Stage Timings

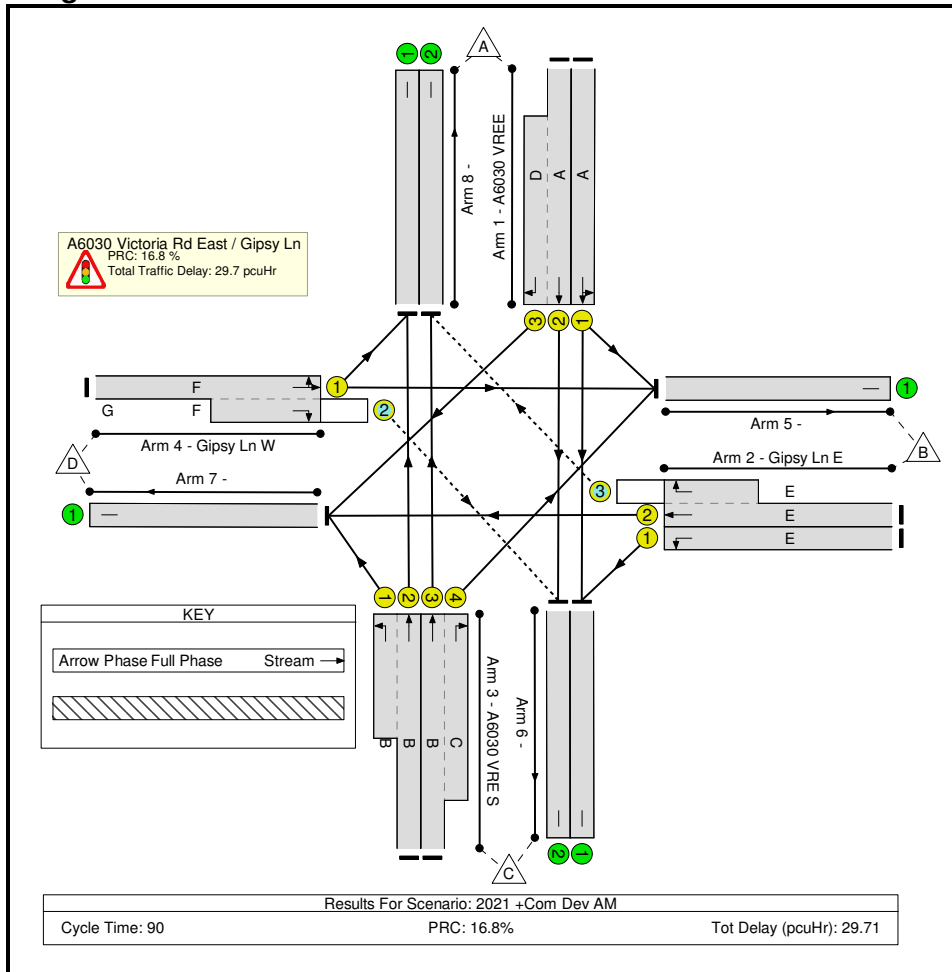
| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 21 | 12 | 21 | 2  |
| Change Point | 0  | 33 | 53 | 80 |

Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 77.1%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 77.1%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 21              | -               | 351               | 1909              | 467            | 75.2%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 21:14           | -               | 565               | 2075:1702         | 507+284        | 69.2 : 75.4% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 21              | -               | 105               | 1702              | 416            | 25.2%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 21              | -               | 404               | 1915:1702         | 426+99         | 77.1 : 77.1% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 21              | -               | 432               | 1915:1702         | 351+371        | 59.8 : 59.8% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 21:14           | -               | 266               | 2055:1702         | 497+133        | 42.2 : 42.2% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 36              | 10              | 583               | 1841:1702         | 357+403        | 76.7 : 76.7% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 280               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 418               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 660               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 764               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 298               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 286               | Inf               | Inf            | 0.0%         |

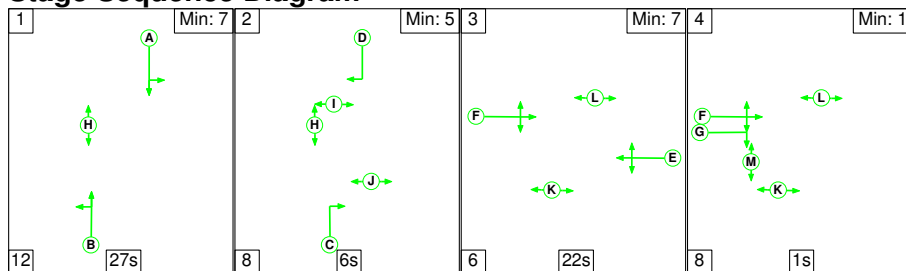
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 153                          | 222                          | 10                          | 21.6                                     | 7.2                          | 0.8                                | 29.7                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 153                          | 222                          | 10                          | 21.6                                     | 7.2                          | 0.8                                | 29.7                | -                         | -                                | -                          | -                    |
| 1/1   | 351            | 351           | -                            | -                            | -                           | 3.1                                      | 1.5                          | -                                  | 4.5                 | 46.7                      | 8.1                              | 1.5                        | 9.6                  |
| 1/2+1/3   | 565            | 565           | -                            | -                            | -                           | 5.1                                      | 1.2                          | -                                  | 6.4                 | 40.6                      | 7.9                              | 1.2                        | 9.1                  |
| 2/1   | 105            | 105           | -                            | -                            | -                           | 0.8                                      | 0.2                          | -                                  | 1.0                 | 33.2                      | 2.1                              | 0.2                        | 2.3                  |
| 2/2+2/3   | 404            | 404           | 76                           | 0                            | 0                           | 3.4                                      | 1.6                          | 0.1                                | 5.2                 | 46.3                      | 7.8                              | 1.6                        | 9.4                  |
| 3/2+3/1   | 432            | 432           | -                            | -                            | -                           | 3.5                                      | 0.7                          | -                                  | 4.2                 | 35.4                      | 4.8                              | 0.7                        | 5.5                  |
| 3/3+3/4   | 266            | 266           | -                            | -                            | -                           | 2.2                                      | 0.4                          | -                                  | 2.5                 | 34.3                      | 4.4                              | 0.4                        | 4.7                  |
| 4/1+4/2   | 583            | 583           | 77                           | 222                          | 10                          | 3.5                                      | 1.6                          | 0.7                                | 5.8                 | 36.0                      | 7.0                              | 1.6                        | 8.6                  |
| 5/1   | 280            | 280           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 418            | 418           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 660            | 660           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 764            | 764           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 298            | 298           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 286            | 286           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 16.8                        | Total Delay for Signalled Lanes (pcuHr): |                              | 29.71                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 16.8                        | Total Delay Over All Lanes(pcuHr):       |                              | 29.71                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 8: '2021 +Com Dev PM' (FG8: '2021 + ComDev PM', Plan 1: 'Network Control Plan 1')

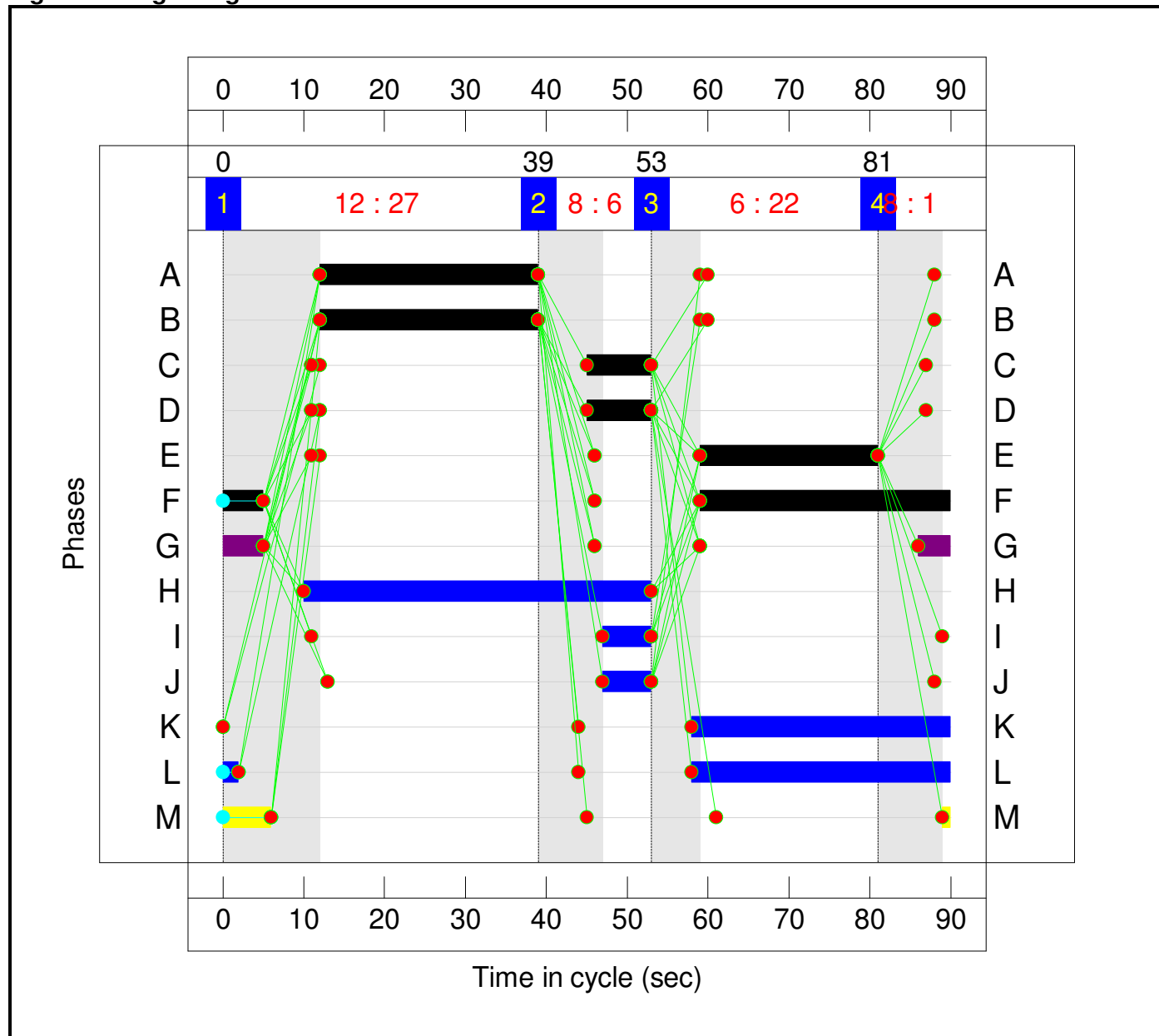
Stage Sequence Diagram



Stage Timings

| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 27 | 6  | 22 | 1  |
| Change Point | 0  | 39 | 53 | 81 |

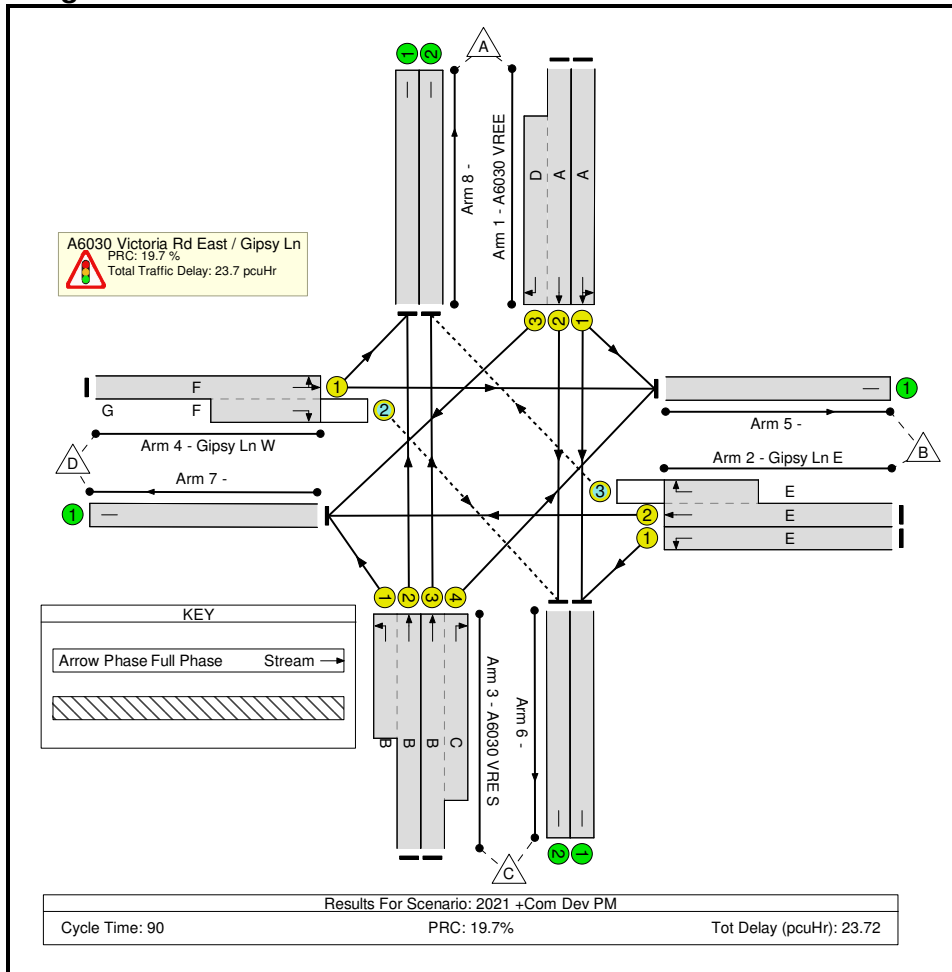
Signal Timings Diagram





Full Input Data And Results

Network Layout Diagram



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 75.2%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 75.2%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 27              | -               | 263               | 1865              | 580            | 45.3%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 27:8            | -               | 391               | 2075:1702         | 640+170        | 41.1 : 75.2% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 22              | -               | 44                | 1702              | 435            | 10.1%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 22              | -               | 200               | 1915:1702         | 434+122        | 36.0 : 36.0% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 27              | -               | 640               | 1915:1702         | 437+429        | 73.9 : 73.9% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 27:8            | -               | 418               | 2055:1702         | 598+170        | 53.9 : 56.4% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 36              | 9               | 684               | 1808:1702         | 554+357        | 75.0 : 75.0% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 394               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 228               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 531               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 601               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 520               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 366               | Inf               | Inf            | 0.0%         |

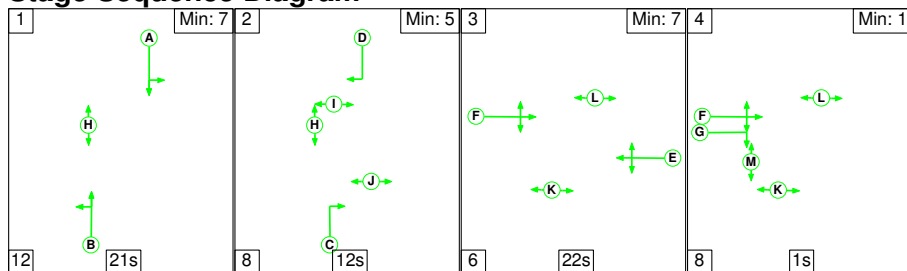
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 267                          | 36                           | 9                           | 18.6                                     | 4.7                          | 0.5                                | 23.7                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 267                          | 36                           | 9                           | 18.6                                     | 4.7                          | 0.5                                | 23.7                | -                         | -                                | -                          | -                    |
| 1/1   | 263            | 263           | -                            | -                            | -                           | 1.8                                      | 0.4                          | -                                  | 2.2                 | 30.5                      | 5.3                              | 0.4                        | 5.7                  |
| 1/2+1/3   | 391            | 391           | -                            | -                            | -                           | 3.2                                      | 0.5                          | -                                  | 3.7                 | 33.6                      | 5.1                              | 0.5                        | 5.6                  |
| 2/1   | 44             | 44            | -                            | -                            | -                           | 0.3                                      | 0.1                          | -                                  | 0.4                 | 30.2                      | 0.8                              | 0.1                        | 0.9                  |
| 2/2+2/3   | 200            | 200           | 44                           | 0                            | 0                           | 1.5                                      | 0.3                          | 0.2                                | 1.9                 | 34.9                      | 3.1                              | 0.3                        | 3.4                  |
| 3/2+3/1   | 640            | 640           | -                            | -                            | -                           | 4.6                                      | 1.4                          | -                                  | 6.0                 | 33.8                      | 6.7                              | 1.4                        | 8.1                  |
| 3/3+3/4   | 418            | 418           | -                            | -                            | -                           | 3.3                                      | 0.6                          | -                                  | 3.9                 | 33.5                      | 6.5                              | 0.6                        | 7.1                  |
| 4/1+4/2   | 684            | 684           | 223                          | 36                           | 9                           | 3.8                                      | 1.5                          | 0.3                                | 5.6                 | 29.6                      | 9.1                              | 1.5                        | 10.6                 |
| 5/1   | 394            | 394           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 228            | 228           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 531            | 531           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 601            | 601           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 520            | 520           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 366            | 366           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 19.7                        | Total Delay for Signalled Lanes (pcuHr): |                              | 23.72                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 19.7                        | Total Delay Over All Lanes(pcuHr):       |                              | 23.72                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 9: '2021 +Com Dev + Ph2 AM' (FG9: '2021 + ComDev + Ph2 AM', Plan 1: 'Network Control Plan 1')

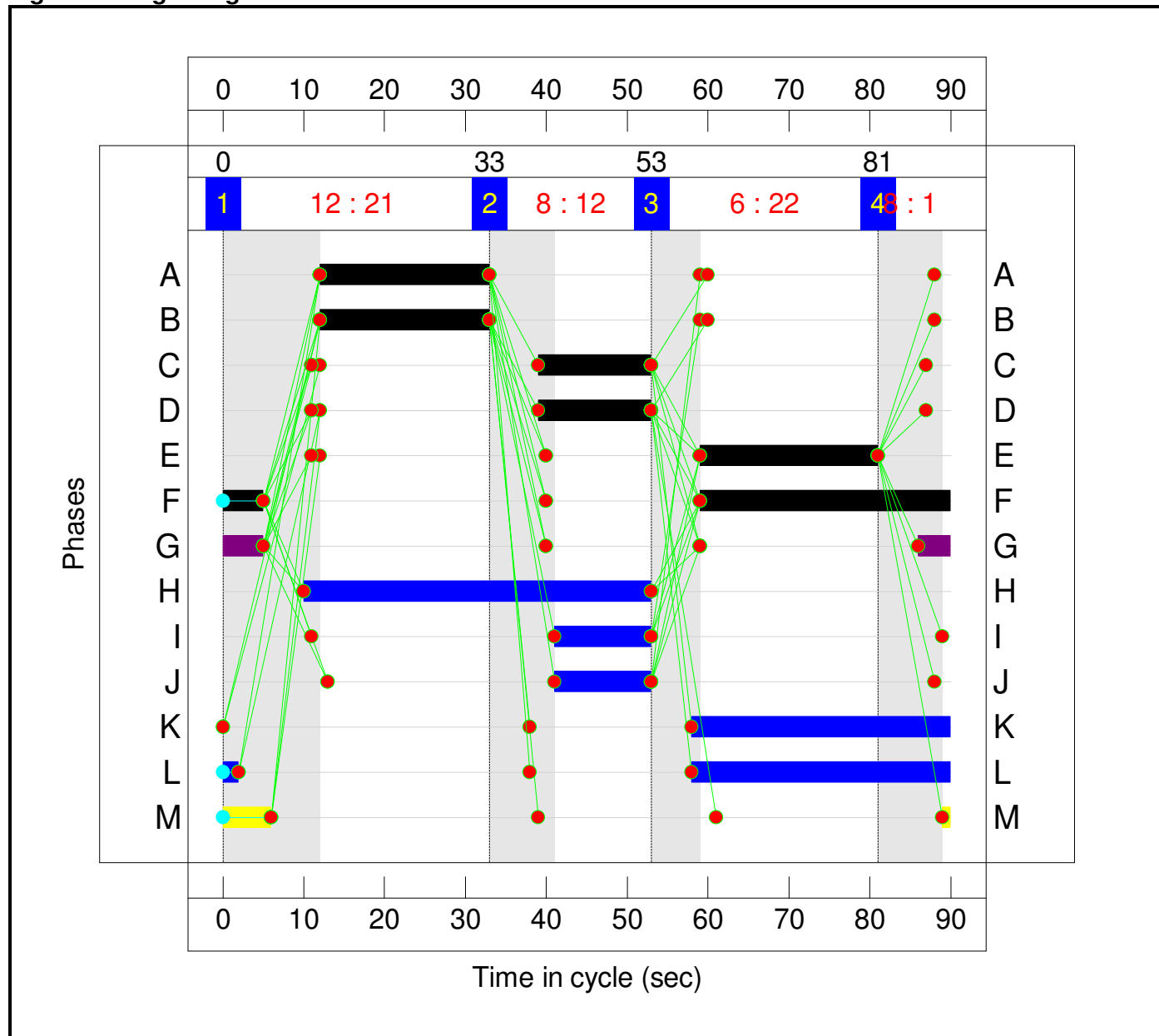
Stage Sequence Diagram



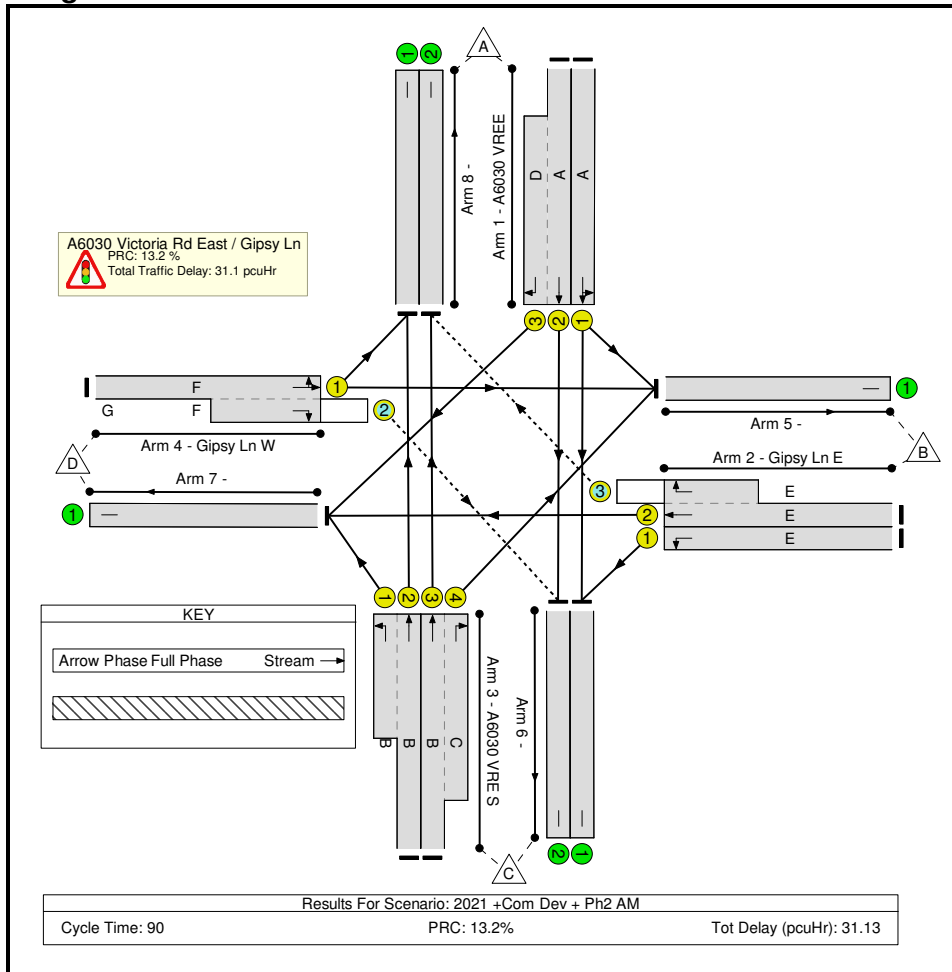
Stage Timings

| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 21 | 12 | 22 | 1  |
| Change Point | 0  | 33 | 53 | 81 |

Signal Timings Diagram



Network Layout Diagram



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 79.5%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 79.5%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 21              | -               | 371               | 1909              | 467            | 79.5%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 21:14           | -               | 585               | 2075:1702         | 507+284        | 73.1 : 75.4% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 22              | -               | 95                | 1702              | 435            | 21.8%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 22              | -               | 402               | 1915:1702         | 442+103        | 73.7 : 73.7% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 21              | -               | 451               | 1915:1702         | 387+369        | 59.6 : 59.6% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 21:14           | -               | 284               | 2055:1702         | 498+117        | 46.2 : 46.2% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 36              | 9               | 640               | 1852:1702         | 415+402        | 78.4 : 78.4% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 331               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 426               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 686               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 760               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 319               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 306               | Inf               | Inf            | 0.0%         |

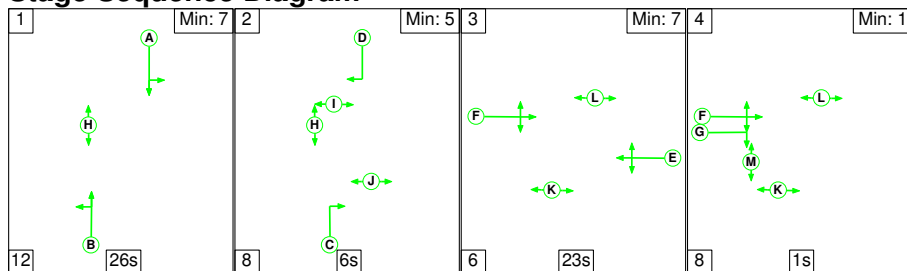
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 171                          | 210                          | 11                          | 22.5                                     | 7.7                          | 0.9                                | 31.1                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 171                          | 210                          | 11                          | 22.5                                     | 7.7                          | 0.9                                | 31.1                | -                         | -                                | -                          | -                    |
| 1/1   | 371            | 371           | -                            | -                            | -                           | 3.3                                      | 1.9                          | -                                  | 5.2                 | 50.0                      | 8.7                              | 1.9                        | 10.5                 |
| 1/2+1/3   | 585            | 585           | -                            | -                            | -                           | 5.3                                      | 1.4                          | -                                  | 6.8                 | 41.5                      | 8.5                              | 1.4                        | 9.9                  |
| 2/1   | 95             | 95            | -                            | -                            | -                           | 0.7                                      | 0.1                          | -                                  | 0.8                 | 31.7                      | 1.8                              | 0.1                        | 2.0                  |
| 2/2+2/3   | 402            | 402           | 76                           | 0                            | 0                           | 3.3                                      | 1.4                          | 0.2                                | 4.9                 | 43.5                      | 7.6                              | 1.4                        | 9.0                  |
| 3/2+3/1   | 451            | 451           | -                            | -                            | -                           | 3.7                                      | 0.7                          | -                                  | 4.4                 | 35.2                      | 4.9                              | 0.7                        | 5.7                  |
| 3/3+3/4   | 284            | 284           | -                            | -                            | -                           | 2.3                                      | 0.4                          | -                                  | 2.8                 | 35.0                      | 4.9                              | 0.4                        | 5.3                  |
| 4/1+4/2   | 640            | 640           | 95                           | 210                          | 11                          | 3.9                                      | 1.8                          | 0.7                                | 6.4                 | 35.8                      | 7.1                              | 1.8                        | 8.9                  |
| 5/1   | 331            | 331           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 426            | 426           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 686            | 686           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 760            | 760           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 319            | 319           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 306            | 306           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 13.2                        | Total Delay for Signalled Lanes (pcuHr): |                              | 31.13                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 13.2                        | Total Delay Over All Lanes(pcuHr):       |                              | 31.13                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 10: '2021 +Com Dev + Ph2 PM' (FG10: '2021 + ComDev + Ph2 PM', Plan 1: 'Network Control Plan 1')

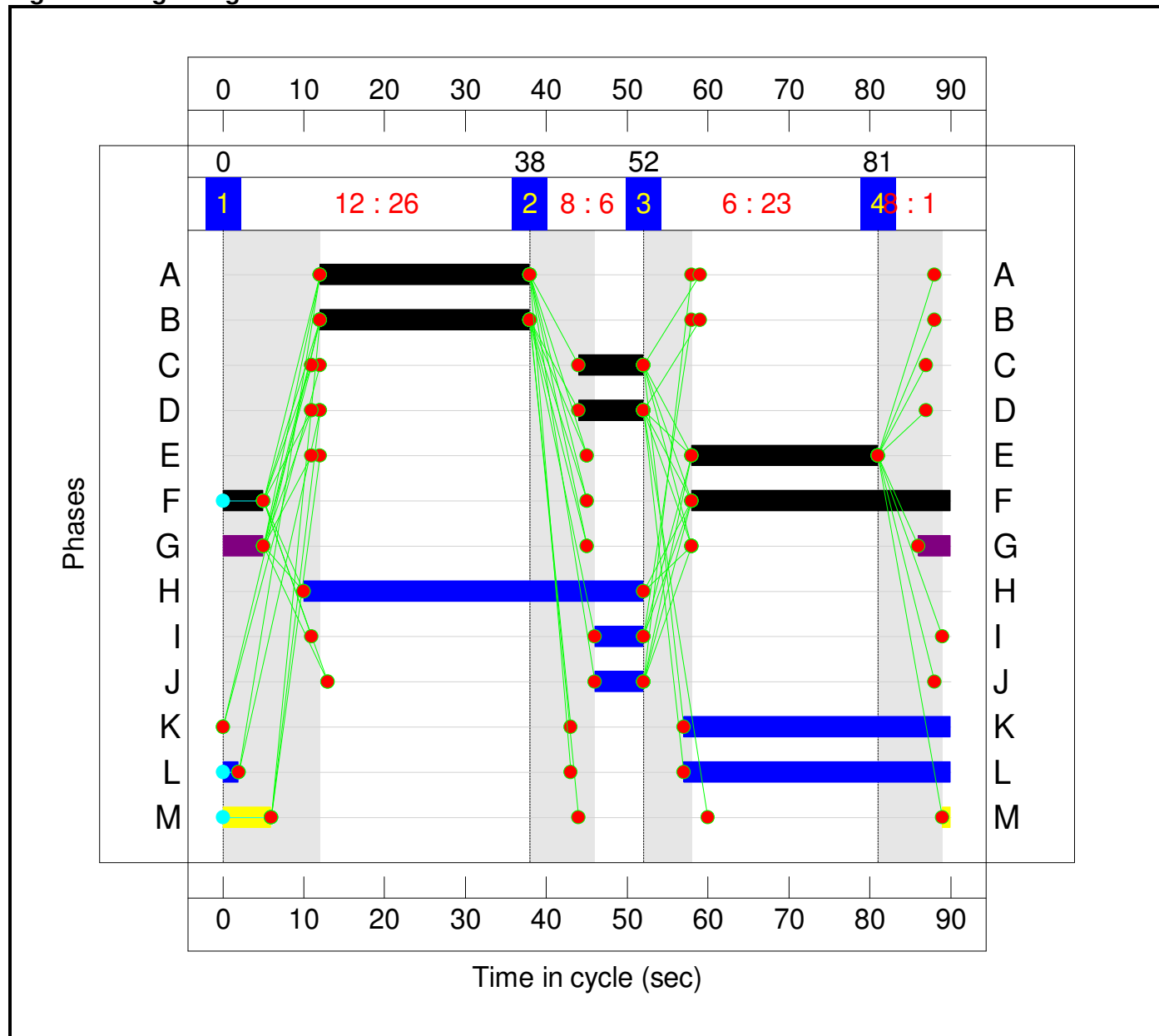
Stage Sequence Diagram



Stage Timings

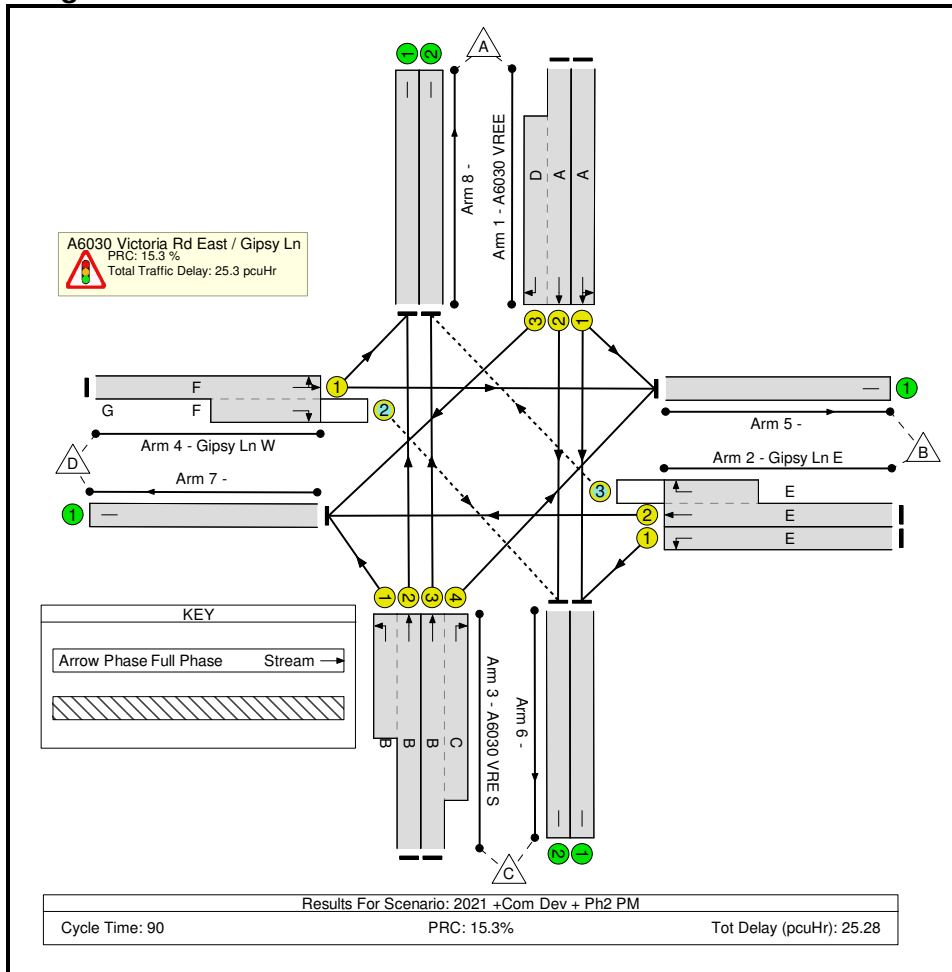
| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 26 | 6  | 23 | 1  |
| Change Point | 0  | 38 | 52 | 81 |

Signal Timings Diagram





**Network Layout Diagram**



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 78.1%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 78.1%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 26              | -               | 261               | 1866              | 560            | 46.6%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 26:8            | -               | 387               | 2075:1702         | 623+170        | 41.9 : 74.0% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 23              | -               | 56                | 1702              | 454            | 12.3%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 23              | -               | 198               | 1915:1702         | 429+161        | 32.7 : 35.9% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 26              | -               | 667               | 1915:1702         | 446+409        | 78.1 : 78.1% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 26:8            | -               | 441               | 2055:1702         | 584+165        | 59.6 : 56.3% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 37              | 9               | 720               | 1813:1702         | 566+367        | 77.2 : 77.2% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 410               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 240               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 544               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 585               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 545               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 406               | Inf               | Inf            | 0.0%         |

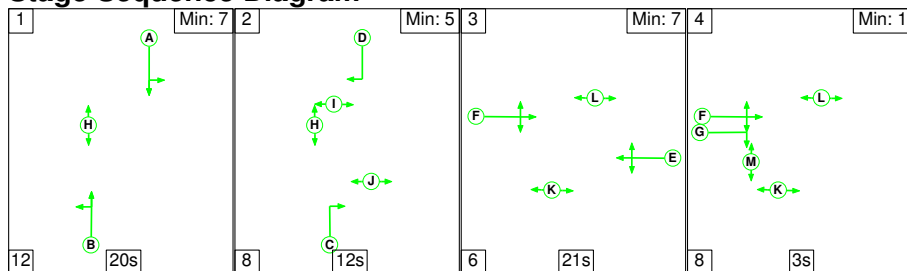
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 294                          | 38                           | 9                           | 19.4                                     | 5.4                          | 0.5                                | 25.3                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 294                          | 38                           | 9                           | 19.4                                     | 5.4                          | 0.5                                | 25.3                | -                         | -                                | -                          | -                    |
| 1/1   | 261            | 261           | -                            | -                            | -                           | 1.9                                      | 0.4                          | -                                  | 2.3                 | 31.6                      | 5.3                              | 0.4                        | 5.7                  |
| 1/2+1/3   | 387            | 387           | -                            | -                            | -                           | 3.2                                      | 0.5                          | -                                  | 3.7                 | 34.3                      | 5.2                              | 0.5                        | 5.7                  |
| 2/1   | 56             | 56            | -                            | -                            | -                           | 0.4                                      | 0.1                          | -                                  | 0.5                 | 29.6                      | 1.1                              | 0.1                        | 1.1                  |
| 2/2+2/3   | 198            | 198           | 58                           | 0                            | 0                           | 1.4                                      | 0.3                          | 0.2                                | 1.9                 | 34.8                      | 2.8                              | 0.3                        | 3.0                  |
| 3/2+3/1   | 667            | 667           | -                            | -                            | -                           | 5.0                                      | 1.7                          | -                                  | 6.8                 | 36.5                      | 7.3                              | 1.7                        | 9.1                  |
| 3/3+3/4   | 441            | 441           | -                            | -                            | -                           | 3.6                                      | 0.7                          | -                                  | 4.3                 | 34.9                      | 7.3                              | 0.7                        | 8.0                  |
| 4/1+4/2   | 720            | 720           | 236                          | 38                           | 9                           | 4.0                                      | 1.7                          | 0.3                                | 5.9                 | 29.4                      | 9.7                              | 1.7                        | 11.3                 |
| 5/1   | 410            | 410           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 240            | 240           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 544            | 544           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 585            | 585           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 545            | 545           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 406            | 406           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 15.3                        | Total Delay for Signalled Lanes (pcuHr): |                              | 25.28                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 15.3                        | Total Delay Over All Lanes(pcuHr):       |                              | 25.28                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 11: '2031 +Com Dev AM' (FG11: '2031 AM + ComDev', Plan 1: 'Network Control Plan 1')

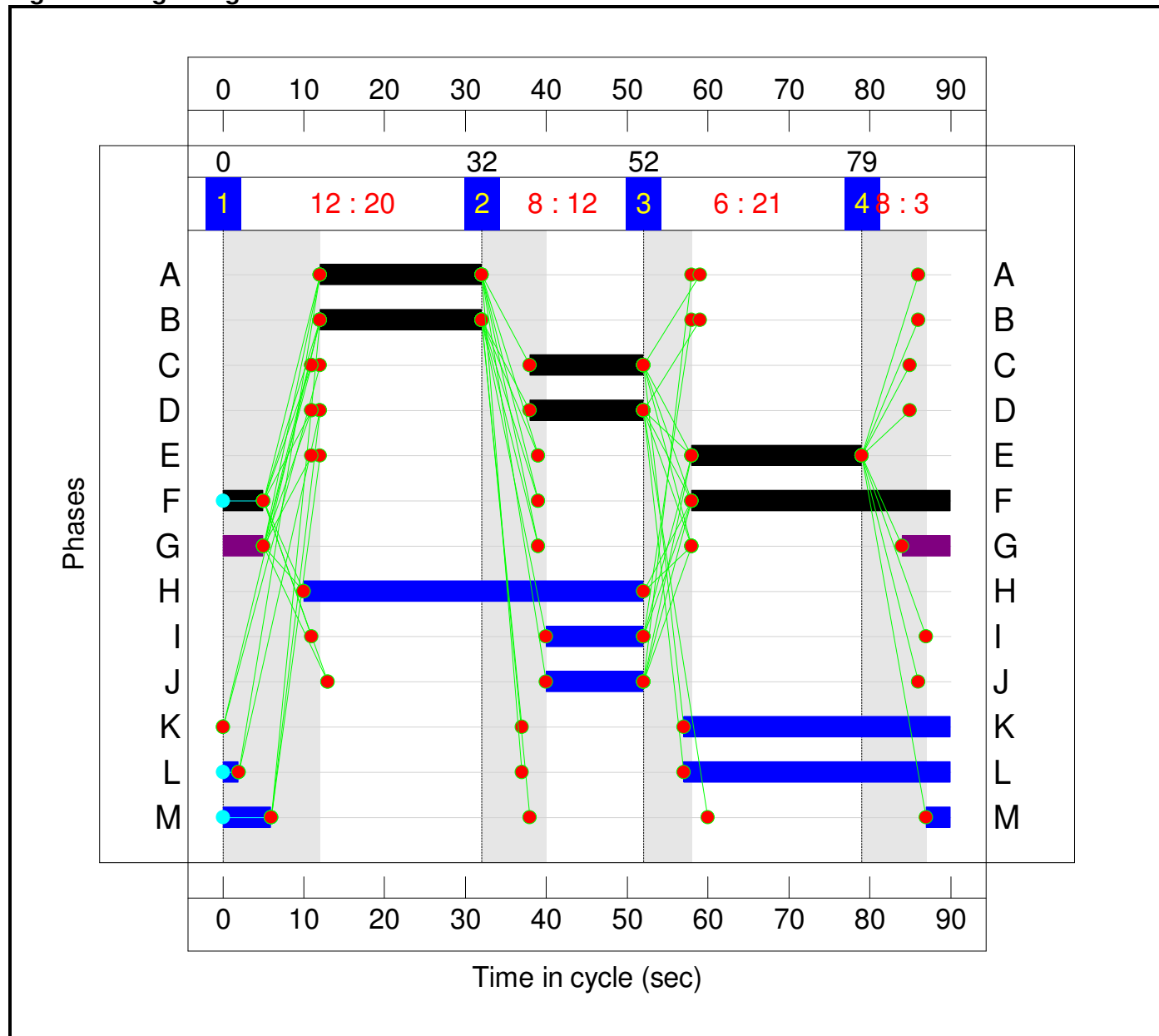
Stage Sequence Diagram



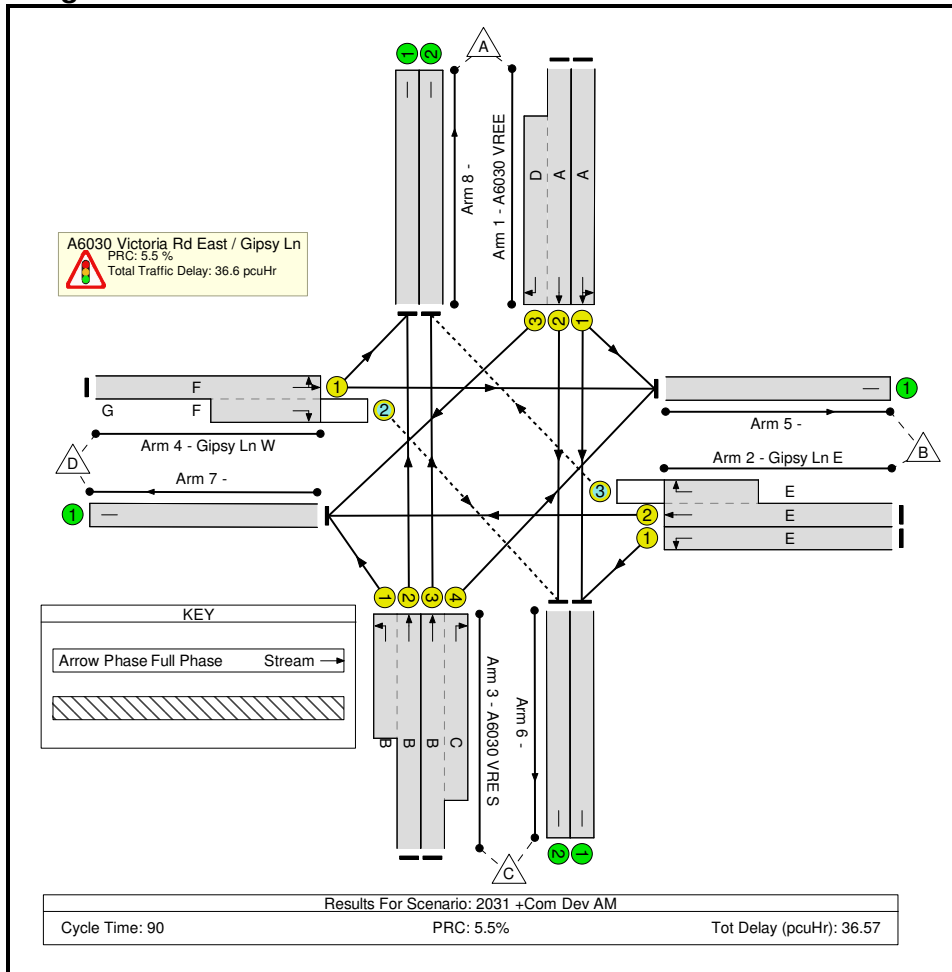
Stage Timings

| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 20 | 12 | 21 | 3  |
| Change Point | 0  | 32 | 52 | 79 |

Signal Timings Diagram



**Network Layout Diagram**



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 85.3%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 85.3%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 20              | -               | 380               | 1909              | 445            | 85.3%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 20:14           | -               | 612               | 2075:1702         | 484+284        | 78.5 : 81.8% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 21              | -               | 115               | 1702              | 416            | 27.6%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 21              | -               | 441               | 1915:1702         | 426+99         | 84.1 : 84.1% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 20              | -               | 467               | 1915:1702         | 342+361        | 66.5 : 66.5% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 20:14           | -               | 287               | 2055:1702         | 479+127        | 47.3 : 47.3% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 37              | 11              | 635               | 1841:1702         | 350+396        | 85.1 : 85.1% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 303               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 454               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 717               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 830               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 323               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 310               | Inf               | Inf            | 0.0%         |

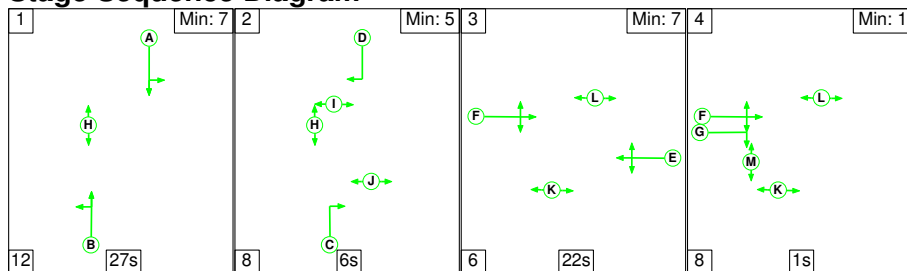
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 134                          | 265                          | 21                          | 24.2                                     | 11.4                         | 0.9                                | 36.6                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 134                          | 265                          | 21                          | 24.2                                     | 11.4                         | 0.9                                | 36.6                | -                         | -                                | -                          | -                    |
| 1/1   | 380            | 380           | -                            | -                            | -                           | 3.5                                      | 2.7                          | -                                  | 6.2                 | 58.4                      | 9.1                              | 2.7                        | 11.8                 |
| 1/2+1/3   | 612            | 612           | -                            | -                            | -                           | 5.8                                      | 1.9                          | -                                  | 7.7                 | 45.1                      | 8.9                              | 1.9                        | 10.8                 |
| 2/1   | 115            | 115           | -                            | -                            | -                           | 0.9                                      | 0.2                          | -                                  | 1.1                 | 33.5                      | 2.3                              | 0.2                        | 2.5                  |
| 2/2+2/3   | 441            | 441           | 83                           | 0                            | 0                           | 3.8                                      | 2.5                          | 0.2                                | 6.5                 | 52.9                      | 8.9                              | 2.5                        | 11.4                 |
| 3/2+3/1   | 467            | 467           | -                            | -                            | -                           | 3.9                                      | 1.0                          | -                                  | 4.9                 | 38.0                      | 5.3                              | 1.0                        | 6.3                  |
| 3/3+3/4   | 287            | 287           | -                            | -                            | -                           | 2.4                                      | 0.4                          | -                                  | 2.9                 | 35.9                      | 4.9                              | 0.4                        | 5.3                  |
| 4/1+4/2   | 635            | 635           | 51                           | 265                          | 21                          | 3.9                                      | 2.7                          | 0.7                                | 7.4                 | 41.9                      | 7.9                              | 2.7                        | 10.6                 |
| 5/1   | 303            | 303           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 454            | 454           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 717            | 717           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 830            | 830           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 323            | 323           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 310            | 310           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 5.5                         | Total Delay for Signalled Lanes (pcuHr): |                              | 36.57                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 5.5                         | Total Delay Over All Lanes(pcuHr):       |                              | 36.57                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

Scenario 12: '2031 +Com Dev PM' (FG12: '2031 PM + Comdev', Plan 1: 'Network Control Plan 1')

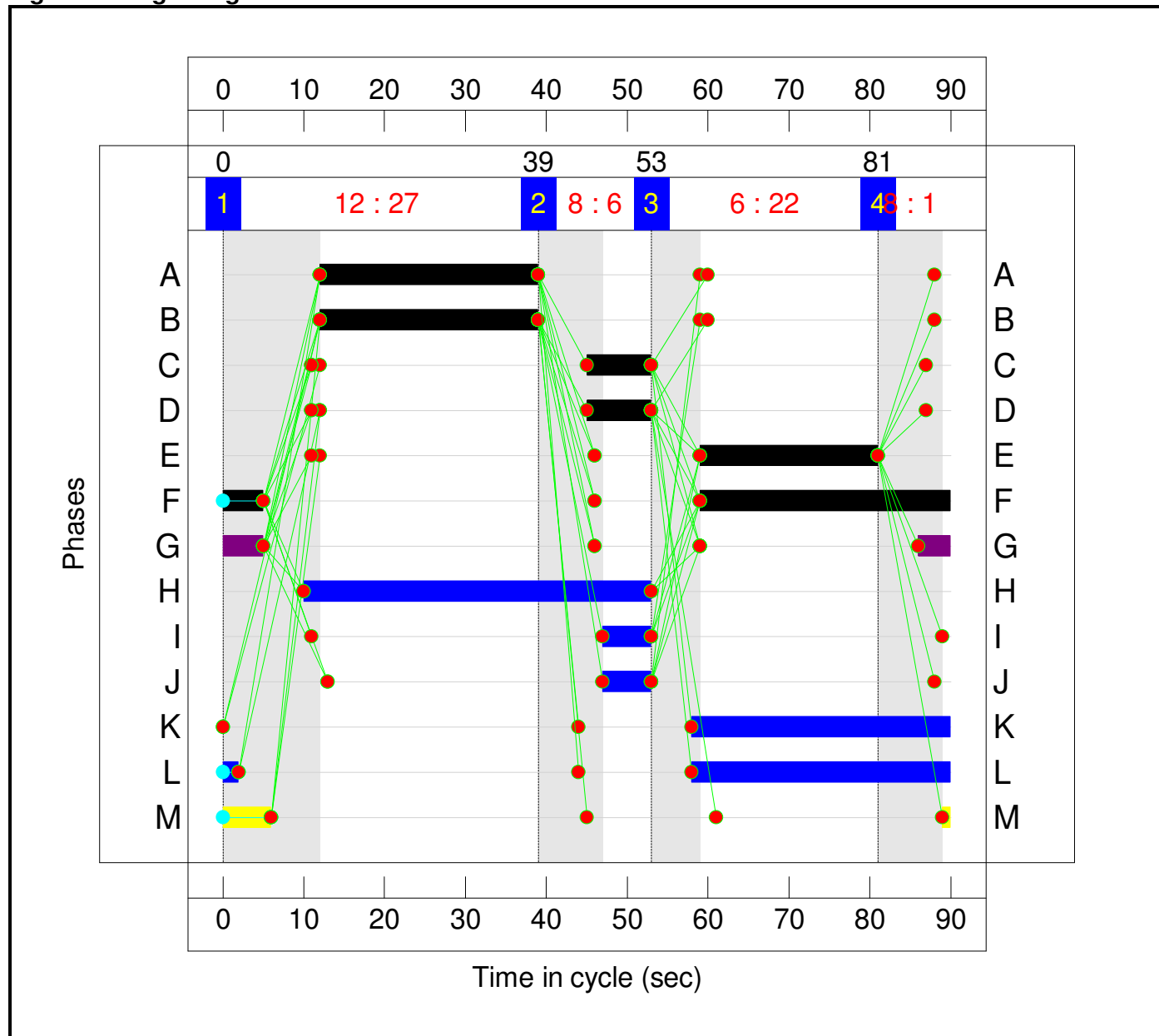
Stage Sequence Diagram



Stage Timings

| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 27 | 6  | 22 | 1  |
| Change Point | 0  | 39 | 53 | 81 |

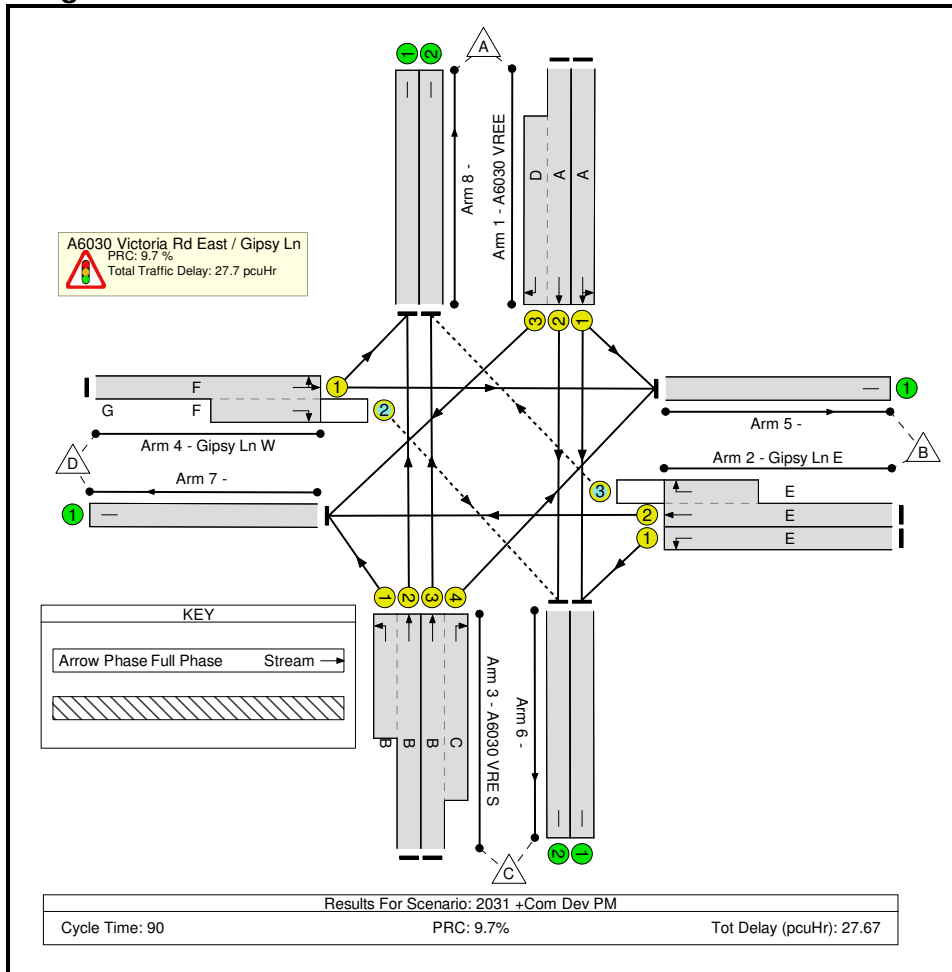
Signal Timings Diagram





# Full Input Data And Results

## Network Layout Diagram



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 82.1%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 82.1%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 27              | -               | 286               | 1865              | 580            | 49.3%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 27:8            | -               | 425               | 2075:1702         | 640+170        | 44.7 : 81.7% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 22              | -               | 48                | 1702              | 435            | 11.0%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 22              | -               | 222               | 1915:1702         | 432+126        | 39.8 : 39.8% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 27              | -               | 698               | 1915:1702         | 437+429        | 80.6 : 80.6% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 27:8            | -               | 455               | 2055:1702         | 598+170        | 58.7 : 61.1% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 36              | 9               | 748               | 1808:1702         | 554+357        | 82.1 : 82.1% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 430               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 248               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 579               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 657               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 567               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 401               | Inf               | Inf            | 0.0%         |

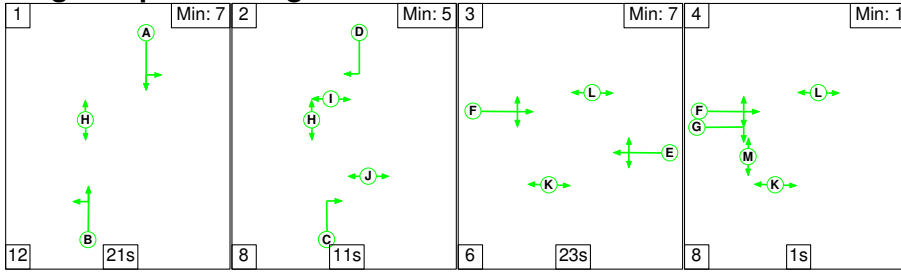
Full Input Data And Results

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 264                          | 70                           | 10                          | 20.7                                     | 6.4                          | 0.6                                | 27.7                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 264                          | 70                           | 10                          | 20.7                                     | 6.4                          | 0.6                                | 27.7                | -                         | -                                | -                          | -                    |
| 1/1   | 286            | 286           | -                            | -                            | -                           | 2.0                                      | 0.5                          | -                                  | 2.5                 | 31.3                      | 5.8                              | 0.5                        | 6.3                  |
| 1/2+1/3   | 425            | 425           | -                            | -                            | -                           | 3.5                                      | 0.6                          | -                                  | 4.1                 | 34.3                      | 5.6                              | 0.6                        | 6.2                  |
| 2/1   | 48             | 48            | -                            | -                            | -                           | 0.3                                      | 0.1                          | -                                  | 0.4                 | 30.3                      | 0.9                              | 0.1                        | 1.0                  |
| 2/2+2/3   | 222            | 222           | 50                           | 0                            | 0                           | 1.7                                      | 0.3                          | 0.2                                | 2.2                 | 36.0                      | 3.5                              | 0.3                        | 3.8                  |
| 3/2+3/1   | 698            | 698           | -                            | -                            | -                           | 5.1                                      | 2.0                          | -                                  | 7.2                 | 36.9                      | 7.4                              | 2.0                        | 9.4                  |
| 3/3+3/4   | 455            | 455           | -                            | -                            | -                           | 3.6                                      | 0.7                          | -                                  | 4.4                 | 34.5                      | 7.2                              | 0.7                        | 7.9                  |
| 4/1+4/2   | 748            | 748           | 214                          | 70                           | 10                          | 4.4                                      | 2.2                          | 0.4                                | 7.0                 | 33.6                      | 11.1                             | 2.2                        | 13.3                 |
| 5/1   | 430            | 430           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 248            | 248           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 579            | 579           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 657            | 657           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 567            | 567           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 401            | 401           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 9.7                         | Total Delay for Signalled Lanes (pcuHr): |                              | 27.67                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 9.7                         | Total Delay Over All Lanes(pcuHr):       |                              | 27.67                              |                     |                           |                                  |                            |                      |

Full Input Data And Results

**Scenario 13: '2031 + All Dev (Stage 2 Mitigation) AM'** (FG13: '2031 + All Dev (Stage 2 Mitigation) AM', Plan 1: 'Network Control Plan 1')

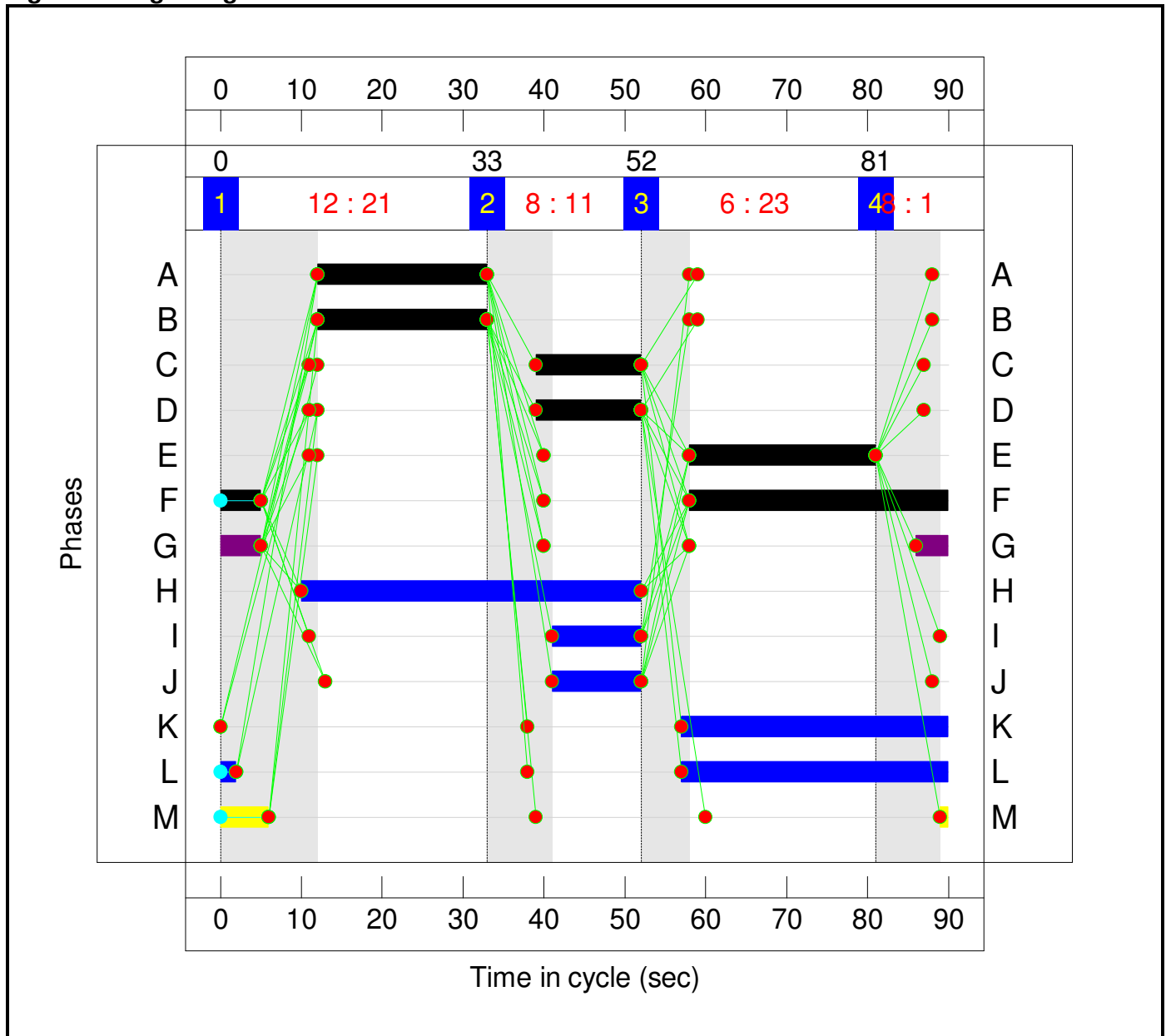
**Stage Sequence Diagram**



**Stage Timings**

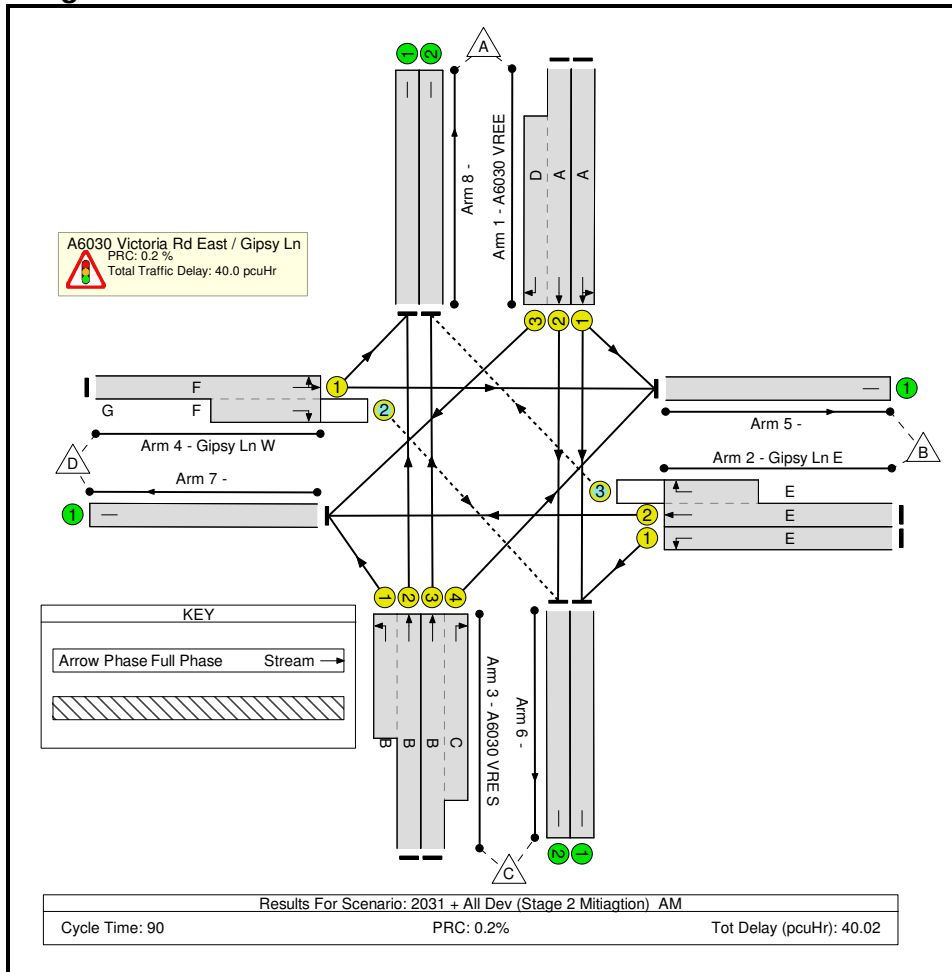
| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 21 | 11 | 23 | 1  |
| Change Point | 0  | 33 | 52 | 81 |

**Signal Timings Diagram**



# Full Input Data And Results

## Network Layout Diagram



Full Input Data And Results

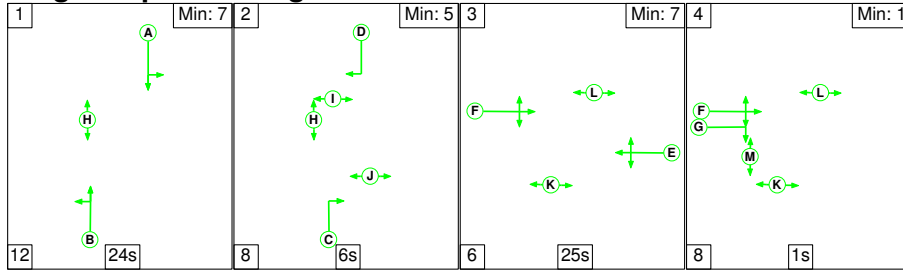
**Network Results**

| 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 89.8%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 89.8%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 21              | -               | 417               | 1900              | 464            | 89.8%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 21:13           | -               | 649               | 2075:1702         | 507+265        | 82.2 : 87.6% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 23              | -               | 85                | 1702              | 454            | 18.7%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 23              | -               | 444               | 1915:1702         | 460+104        | 78.6 : 78.6% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 21              | -               | 507               | 1915:1702         | 396+334        | 69.4 : 69.4% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 21:13           | -               | 333               | 2055:1702         | 498+105        | 55.2 : 55.2% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 37              | 9               | 682               | 1850:1702         | 382+386        | 88.9 : 88.9% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 363               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 440               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 760               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 826               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 371               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 357               | 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 161                          | 227                          | 37                          | 25.4                                     | 13.6                         | 1.0                                | 40.0                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 161                          | 227                          | 37                          | 25.4                                     | 13.6                         | 1.0                                | 40.0                | -                         | -                                | -                          | -                    |
| 1/1   | 417            | 417           | -                            | -                            | -                           | 3.8                                      | 3.8                          | -                                  | 7.6                 | 65.6                      | 10.1                             | 3.8                        | 13.9                 |
| 1/2+1/3   | 649            | 649           | -                            | -                            | -                           | 6.1                                      | 2.5                          | -                                  | 8.7                 | 48.0                      | 9.8                              | 2.5                        | 12.4                 |
| 2/1   | 85             | 85            | -                            | -                            | -                           | 0.6                                      | 0.1                          | -                                  | 0.7                 | 30.4                      | 1.6                              | 0.1                        | 1.7                  |
| 2/2+2/3   | 444            | 444           | 82                           | 0                            | 0                           | 3.6                                      | 1.8                          | 0.2                                | 5.6                 | 45.5                      | 8.8                              | 1.8                        | 10.5                 |
| 3/2+3/1   | 507            | 507           | -                            | -                            | -                           | 4.2                                      | 1.1                          | -                                  | 5.3                 | 37.8                      | 6.0                              | 1.1                        | 7.2                  |
| 3/3+3/4   | 333            | 333           | -                            | -                            | -                           | 2.8                                      | 0.6                          | -                                  | 3.4                 | 36.9                      | 6.0                              | 0.6                        | 6.6                  |
| 4/1+4/2   | 682            | 682           | 79                           | 227                          | 37                          | 4.2                                      | 3.7                          | 0.8                                | 8.7                 | 45.9                      | 8.0                              | 3.7                        | 11.7                 |
| 5/1   | 363            | 363           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 440            | 440           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 760            | 760           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 826            | 826           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 371            | 371           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 357            | 357           | -                            | -                            | -                           | 0.0                                      | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): |                              | 0.2                         | Total Delay for Signalled Lanes (pcuHr): |                              | 40.02                              | Cycle Time (s):     |                           | 90                               |                            |                      |
|   |                |               | PRC Over All Lanes (%):      |                              | 0.2                         | Total Delay Over All Lanes(pcuHr):       |                              | 40.02                              |                     |                           |                                  |                            |                      |

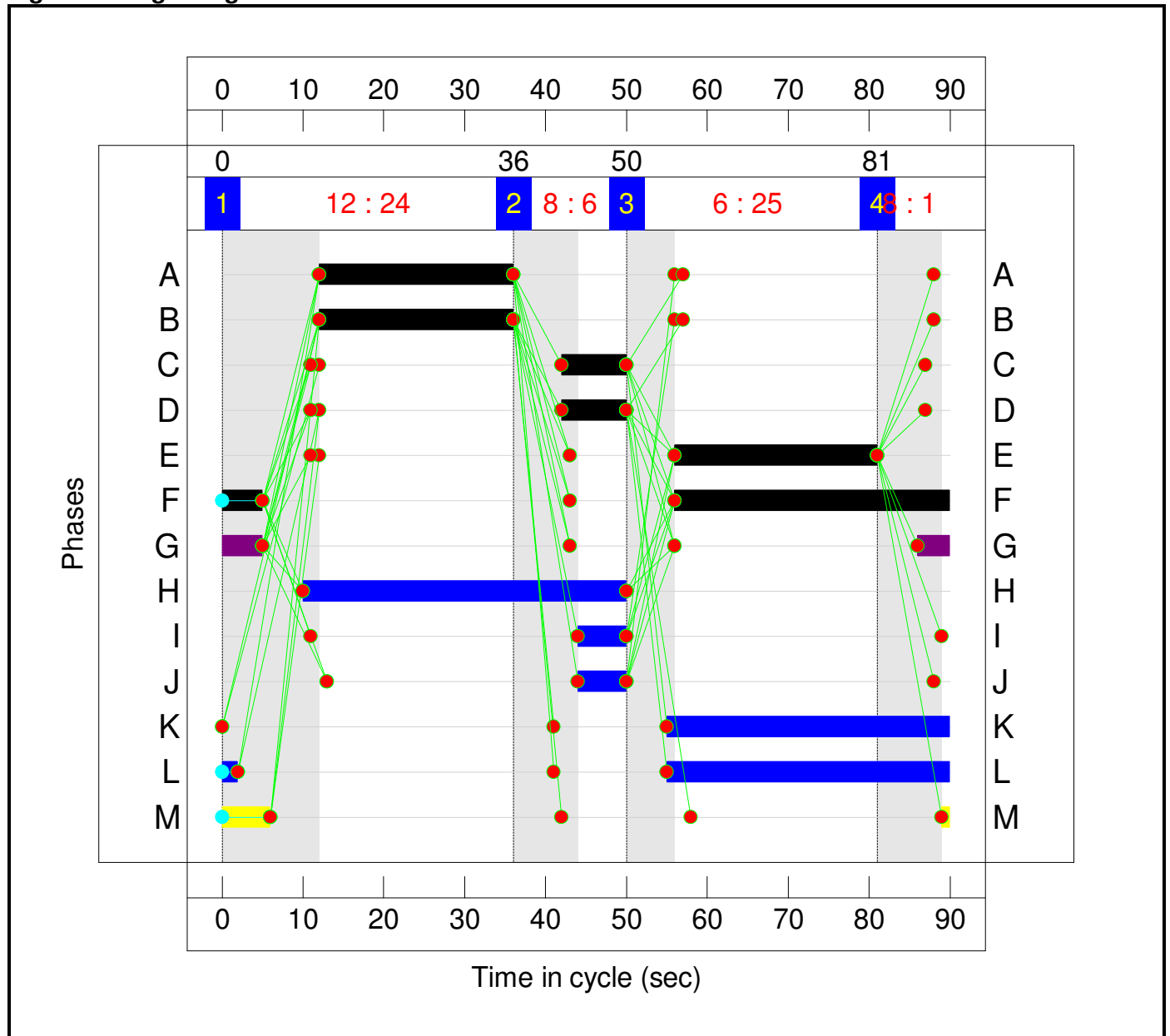
**Stage Sequence Diagram**



**Stage Timings**

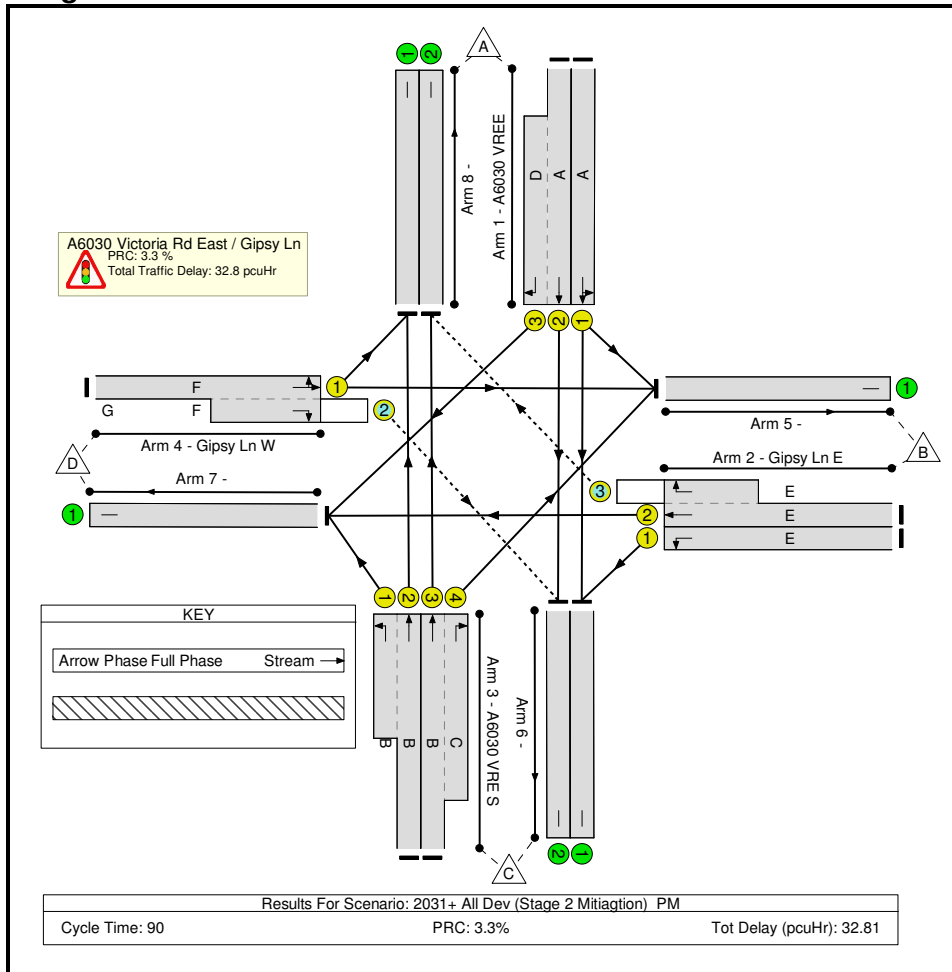
| Stage        | 1  | 2  | 3  | 4  |
|--------------|----|----|----|----|
| Duration     | 24 | 6  | 25 | 1  |
| Change Point | 0  | 36 | 50 | 81 |

**Signal Timings Diagram**





**Network Layout Diagram**



Full Input Data And Results

**Network 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 87.1%        |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -                           | -         | N/A               | -                          | -          |             | -          | -               | -               | -                 | -                 | -              | 87.1%        |
| 1/1   | A6030 VREE Left Ahead       | U         | N/A               | N/A                        | A          |             | 1          | 24              | -               | 290               | 1865              | 518            | 56.0%        |
| 1/2+1/3   | A6030 VREE Ahead Right      | U         | N/A               | N/A                        | A D        |             | 1          | 24:8            | -               | 429               | 2075:1702         | 576+170        | 50.3 : 81.7% |
| 2/1   | Gipsy Ln E Left             | U         | N/A               | N/A                        | E          |             | 1          | 25              | -               | 62                | 1702              | 492            | 12.6%        |
| 2/2+2/3   | Gipsy Ln E Ahead Right      | U+O       | N/A               | N/A                        | E          |             | 1          | 25              | -               | 239               | 1915:1702         | 219+147        | 65.4 : 65.5% |
| 3/2+3/1   | A6030 VRE S Left Ahead      | U         | N/A               | N/A                        | B          |             | 1          | 24              | -               | 709               | 1915:1702         | 416+399        | 87.1 : 87.1% |
| 3/3+3/4   | A6030 VRE S Right Ahead     | U         | N/A               | N/A                        | B C        |             | 1          | 24:8            | -               | 461               | 2055:1702         | 548+153        | 65.8 : 65.3% |
| 4/1+4/2   | Gipsy Ln W Ahead Right Left | U+O       | N/A               | N/A                        | F          | G           | 1          | 39              | 9               | 840               | 1821:1702         | 598+366        | 87.1 : 87.1% |
| 5/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 493               | Inf               | Inf            | 0.0%         |
| 6/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 265               | Inf               | Inf            | 0.0%         |
| 6/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 609               | Inf               | Inf            | 0.0%         |
| 7/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 629               | Inf               | Inf            | 0.0%         |
| 8/1   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 577               | Inf               | Inf            | 0.0%         |
| 8/2   |                             | U         | N/A               | N/A                        | -          |             | -          | -               | -               | 457               | 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: A6030 Victoria Road East / Gipsy Lane - Existing Layout</b> | -              | -             | 346                          | 59                           | 11                                       | 22.3                  | 9.7                          | 0.8                                | 32.8                | -                         | -                                | -                          | -                    |
| <b>A6030 Victoria Rd East / Gipsy Ln</b>                                | -              | -             | 346                          | 59                           | 11                                       | 22.3                  | 9.7                          | 0.8                                | 32.8                | -                         | -                                | -                          | -                    |
| 1/1   | 290            | 290           | -                            | -                            | -  | 2.2                   | 0.6                          | -                                  | 2.9                 | 35.6                      | 6.1                              | 0.6                        | 6.8                  |
| 1/2+1/3   | 429            | 429           | -                            | -                            | -  | 3.7                   | 0.7                          | -                                  | 4.4                 | 37.0                      | 6.0                              | 0.7                        | 6.7                  |
| 2/1   | 62             | 62            | -                            | -                            | -  | 0.4                   | 0.1                          | -                                  | 0.5                 | 27.8                      | 1.1                              | 0.1                        | 1.2                  |
| 2/2+2/3   | 239            | 239           | 96                           | 0                            | 0  | 1.6                   | 0.9                          | 0.6                                | 3.1                 | 46.9                      | 2.7                              | 0.9                        | 3.7                  |
| 3/2+3/1   | 709            | 709           | -                            | -                            | -  | 5.8                   | 3.2                          | -                                  | 8.9                 | 45.3                      | 8.2                              | 3.2                        | 11.4                 |
| 3/3+3/4   | 461            | 461           | -                            | -                            | -  | 3.9                   | 1.0                          | -                                  | 4.9                 | 38.1                      | 7.8                              | 1.0                        | 8.8                  |
| 4/1+4/2   | 840            | 840           | 250                          | 59                           | 11                                       | 4.7                   | 3.2                          | 0.3                                | 8.1                 | 34.9                      | 13.9                             | 3.2                        | 17.1                 |
| 5/1   | 493            | 493           | -                            | -                            | -  | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/1   | 265            | 265           | -                            | -                            | -  | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 6/2   | 609            | 609           | -                            | -                            | -  | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 7/1   | 629            | 629           | -                            | -                            | -  | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/1   | 577            | 577           | -                            | -                            | -  | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| 8/2   | 457            | 457           | -                            | -                            | -  | 0.0                   | 0.0                          | -                                  | 0.0                 | 0.0                       | 0.0                              | 0.0                        | 0.0                  |
| C1  |                |               | PRC for Signalled Lanes (%): | 3.3                          | Total Delay for Signalled Lanes (pcuHr): |                       |                              | 32.81                              | Cycle Time (s): 90  |                           |                                  |                            |                      |
|   |                |               | PRC Over All Lanes (%):      | 3.3                          | Total Delay Over All Lanes(pcuHr):       |                       |                              | 32.81                              |                     |                           |                                  |                            |                      |