

| <b>ARCADY 6</b>                                                                                                                                                                                  |  |                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|
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### Run Information

Run with file:- I:\Projects\sprust 110601\Modelling\2011-07-21\2011 Saturday Observed+Committed+Proposals.vai  
 At: 14:56:00 on Tuesday, July 19, 2011  
 Mode: Drive On The Left  
 Units: Metric

### Arm Labelling

| Arm   | Full Arm Names             |
|-------|----------------------------|
| Arm A | Site Access (Golfers Lane) |
| Arm B | New Road (east)            |
| Arm C | Mill Lane                  |
| Arm D | New Road (west)            |

### Flow Scaling Factor

| Arm   | Flow Scaling Factor (%) |
|-------|-------------------------|
| Arm A | 100                     |
| Arm B | 100                     |
| Arm C | 100                     |
| Arm D | 100                     |

### File Properties

|             |                                                                                  |
|-------------|----------------------------------------------------------------------------------|
| Run Title   | Rustington Golf and Leisure Club -2011 Observed+Committed+Proposa -Saturday Peak |
| Location    |                                                                                  |
| Date        | 06/07/2011                                                                       |
| Client      |                                                                                  |
| Enumerator  | JessicaShannon [TECHNICIAN-2]                                                    |
| Job Number  | 110601                                                                           |
| Status      |                                                                                  |
| Description |                                                                                  |

### Geometric Data

| Data Item                    | Arm A | Arm B  | Arm C | Arm D |
|------------------------------|-------|--------|-------|-------|
| Approach Road Half-Width (m) | 3.50  | 8.00 * | 7.50  | 7.50  |
| Entry Width (m)              | 5.00  | 8.00   | 10.00 | 11.50 |
| Flare Length (m)             | 3.00  | 68.00  | 14.00 | 32.00 |

|                               |        |        |        |        |
|-------------------------------|--------|--------|--------|--------|
| Entry Radius (m)              | 10.00  | 20.00  | 25.00  | 35.00  |
| Inscribed Circle Diameter (m) | 56.00  | 56.00  | 56.00  | 56.00  |
| Entry Angle (degrees)         | 28.00  | 26.00  | 22.00  | 26.50  |
| Slope                         | 0.475  | 0.719  | 0.798  | 0.866  |
| Intercept (PCU/Min)           | 19.725 | 40.961 | 47.633 | 54.035 |

## Demand Data

Demand Profiles are Synthesised using **DIRECT** Data

Period of interest (for Queue and Delay calculations): **11:45 to 12:45**

Length of Time Period: **60 min**

Length of Time Segment: **15 min**

### Direct Data for Demand Set: Rustington Golf and Leisure Club - 2011 Observed+Committed+Proposals - Saturday

| Time Period                         | Arm | Demand Data (Veh/Min) |
|-------------------------------------|-----|-----------------------|
| <b>Segment : 1 - 11:45 to 12:00</b> | A   | 2.57                  |
|                                     | B   | 34.45                 |
|                                     | C   | 11.27                 |
|                                     | D   | 16.82                 |
| <b>Segment : 2 - 12:00 to 12:15</b> | A   | 2.70                  |
|                                     | B   | 33.18                 |
|                                     | C   | 15.20                 |
|                                     | D   | 13.95                 |
| <b>Segment : 3 - 12:15 to 12:30</b> | A   | 2.23                  |
|                                     | B   | 34.12                 |
|                                     | C   | 12.27                 |
|                                     | D   | 14.02                 |
| <b>Segment : 4 - 12:30 to 12:45</b> | A   | 2.17                  |
|                                     | B   | 34.38                 |
|                                     | C   | 11.00                 |
|                                     | D   | 15.22                 |

### Turning Proportions for Demand Set: Rustington Golf and Leisure Club - 2011 Observed+Committed+Proposals - Saturday

Turning proportions vary over time and entry and calculated from turning count data (shaded)

| Time Period                         | From/To | Arm A | Arm B | Arm C | Arm D |
|-------------------------------------|---------|-------|-------|-------|-------|
| <b>Segment : 1 - 11:45 to 12:00</b> | Arm A   | 0.000 | 0.553 | 0.132 | 0.316 |
|                                     |         | 0.0   | 21.0  | 5.0   | 12.0  |
|                                     | Arm B   | 0.031 | 0.190 | 0.348 | 0.431 |
|                                     |         | 16.0  | 98.0  | 180.0 | 223.0 |
|                                     | Arm C   | 0.059 | 0.852 | 0.000 | 0.089 |
|                                     |         | 10.0  | 144.0 | 0.0   | 15.0  |
|                                     | Arm D   | 0.048 | 0.893 | 0.060 | 0.000 |
|                                     |         | 12.0  | 225.0 | 15.0  | 0.0   |
| <b>Segment : 2 - 12:00 to 12:15</b> | Arm A   | 0.000 | 0.625 | 0.100 | 0.275 |
|                                     |         | 0.0   | 25.0  | 4.0   | 11.0  |
|                                     | Arm B   | 0.030 | 0.159 | 0.369 | 0.442 |
|                                     |         | 15.0  | 79.0  | 184.0 | 220.0 |
|                                     | Arm C   | 0.031 | 0.917 | 0.000 | 0.053 |
|                                     |         |       |       |       |       |

|                                 |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|
|                                 | Arm D | 7.0   | 209.0 | 0.0   | 12.0  |
|                                 |       | 0.053 | 0.871 | 0.077 | 0.000 |
|                                 |       | 11.0  | 182.0 | 16.0  | 0.0   |
| Segment : 3 -<br>12:15 to 12:30 | Arm A | 0.000 | 0.576 | 0.091 | 0.333 |
|                                 |       | 0.0   | 19.0  | 3.0   | 11.0  |
|                                 |       | 0.039 | 0.166 | 0.357 | 0.438 |
|                                 | Arm B | 20.0  | 85.0  | 183.0 | 224.0 |
|                                 |       | 0.043 | 0.864 | 0.000 | 0.092 |
|                                 |       | 8.0   | 159.0 | 0.0   | 17.0  |
|                                 | Arm D | 0.048 | 0.890 | 0.062 | 0.000 |
|                                 |       | 10.0  | 187.0 | 13.0  | 0.0   |
| Segment : 4 -<br>12:30 to 12:45 | Arm A | 0.000 | 0.438 | 0.250 | 0.313 |
|                                 |       | 0.0   | 14.0  | 8.0   | 10.0  |
|                                 |       | 0.025 | 0.202 | 0.368 | 0.405 |
|                                 | Arm B | 13.0  | 104.0 | 190.0 | 209.0 |
|                                 |       | 0.030 | 0.921 | 0.000 | 0.048 |
|                                 |       | 5.0   | 152.0 | 0.0   | 8.0   |
|                                 | Arm D | 0.026 | 0.939 | 0.035 | 0.000 |
|                                 |       | 6.0   | 214.0 | 8.0   | 0.0   |

**Heavy Vehicle Percentages for Demand Set: Rustington Golf and Leisure Club - 2011  
Observed+Committed+Proposals - Saturday**

Vary over entry

| Time Period    | From/To | Arm A | Arm B | Arm C | Arm D |
|----------------|---------|-------|-------|-------|-------|
| 11:45 to 12:00 | Arm A   | 0.0   | 21.0  | 5.0   | 12.0  |
|                | Arm B   | 16.0  | 98.0  | 180.0 | 223.0 |
|                | Arm C   | 10.0  | 144.0 | 0.0   | 15.0  |
|                | Arm D   | 12.0  | 225.0 | 15.0  | 0.0   |

**Queues and Delay:**

| Segment                         | Arm | Demand<br>(Veh / Min) | Capacity<br>(Veh /<br>Min) | Demand /<br>Capacity<br>(RFC) | Ped Flow<br>(Ped / Min) | Start<br>Queue<br>(Veh) | End<br>Queue<br>(Veh) | Delay<br>(Veh.Min /<br>Time<br>Segment) | Geometric<br>Delay<br>(Veh.Min /<br>Time<br>Segment) | Arrival<br>Delay<br>(Min /<br>Veh) |
|---------------------------------|-----|-----------------------|----------------------------|-------------------------------|-------------------------|-------------------------|-----------------------|-----------------------------------------|------------------------------------------------------|------------------------------------|
| Segment : 1 -<br>11:45 to 12:00 | A   | 2.57                  | 4.43                       | 0.580                         | -                       | 0.0                     | 1.3                   | 16.6                                    | -                                                    | 0.495                              |
|                                 | B   | 34.45                 | 39.16                      | 0.880                         | -                       | 0.0                     | 6.6                   | 85.2                                    | -                                                    | 0.181                              |
|                                 | C   | 11.27                 | 29.00                      | 0.389                         | -                       | 0.0                     | 0.6                   | 9.2                                     | -                                                    | 0.056                              |
|                                 | D   | 16.82                 | 38.23                      | 0.440                         | -                       | 0.0                     | 0.8                   | 11.5                                    | -                                                    | 0.046                              |
| Segment : 2 -<br>12:00 to 12:15 | A   | 2.70                  | 4.23                       | 0.639                         | -                       | 1.3                     | 1.6                   | 22.7                                    | -                                                    | 0.634                              |
|                                 | B   | 33.18                 | 39.18                      | 0.847                         | -                       | 6.6                     | 5.8                   | 90.7                                    | -                                                    | 0.170                              |
|                                 | C   | 15.20                 | 29.98                      | 0.507                         | -                       | 0.6                     | 1.0                   | 14.9                                    | -                                                    | 0.067                              |
|                                 | D   | 13.95                 | 35.70                      | 0.391                         | -                       | 0.8                     | 0.6                   | 9.8                                     | -                                                    | 0.046                              |
| Segment : 3 -<br>12:15 to 12:30 | A   | 2.23                  | 5.56                       | 0.401                         | -                       | 1.6                     | 0.7                   | 11.3                                    | -                                                    | 0.311                              |
|                                 | B   | 34.12                 | 39.35                      | 0.867                         | -                       | 5.8                     | 6.2                   | 90.8                                    | -                                                    | 0.188                              |
|                                 | C   | 12.27                 | 29.23                      | 0.420                         | -                       | 1.0                     | 0.7                   | 11.2                                    | -                                                    | 0.059                              |
|                                 | D   | 14.02                 | 37.86                      | 0.370                         | -                       | 0.6                     | 0.6                   | 8.9                                     | -                                                    | 0.042                              |
| Segment : 4 -<br>12:30 to 12:45 | A   | 2.17                  | 4.49                       | 0.483                         | -                       | 0.7                     | 0.9                   | 12.7                                    | -                                                    | 0.426                              |
|                                 | B   | 34.38                 | 39.43                      | 0.872                         | -                       | 6.2                     | 6.5                   | 95.5                                    | -                                                    | 0.196                              |
|                                 | C   | 11.00                 | 29.44                      | 0.374                         | -                       | 0.7                     | 0.6                   | 9.1                                     | -                                                    | 0.054                              |
|                                 | D   | 15.22                 | 37.76                      | 0.403                         | -                       | 0.6                     | 0.7                   | 10.0                                    | -                                                    | 0.044                              |

