

|                                                         |                                                                              |                                                                                     |
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| Dixon Hurst Kemp                                        |                                                                              | Page 1                                                                              |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
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| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

|                          |        |                                       |       |
|--------------------------|--------|---------------------------------------|-------|
| Return Period (years)    | 2      | Add Flow / Climate Change (%)         | 45    |
| M5-60 (mm)               | 20.000 | Minimum Backdrop Height (m)           | 0.000 |
| Ratio R                  | 0.343  | Maximum Backdrop Height (m)           | 0.000 |
| Maximum Rainfall (mm/hr) | 50     | Min Design Depth for Optimisation (m) | 0.000 |
| Foul Sewage (l/s/ha)     | 0.00   | Min Vel for Auto Design only (m/s)    | 0.76  |
| Volumetric Runoff Coeff. | 1.000  | Min Slope for Optimisation (1:X)      | 500   |
| PIMP (%)                 | 100    |                                       |       |

Designed with Level Soffits

Time Area Diagram for Storm

| Time<br>(mins) | Area<br>(ha) | Time<br>(mins) | Area<br>(ha) |
|----------------|--------------|----------------|--------------|
| 0-4            | 0.014        | 4-8            | 0.002        |

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

| PN    | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) |
|-------|---------------|-------------|----------------|----------------|----------------|--------------------|-----------|-------------|-------------|
| 1.000 | 16.200        | 1.906       | 8.5            | 0.004          | 5.00           | 0.0                | 0.600     | o           | 110         |
| 1.001 | 5.000         | 0.050       | 100.0          | 0.004          | 0.00           | 0.0                | 0.600     | o           | 110         |
| 2.000 | 3.600         | 0.379       | 9.5            | 0.004          | 5.00           | 0.0                | 0.600     | o           | 110         |
| 2.001 | 9.200         | 1.533       | 6.0            | 0.004          | 0.00           | 0.0                | 0.600     | o           | 110         |
| 1.002 | 3.600         | 0.045       | 80.0           | 0.000          | 0.00           | 0.0                | 0.600     | o           | 110         |
| 1.003 | 1.000         | 0.010       | 100.0          | 0.000          | 0.00           | 0.0                | 0.600     | o           | 110         |
| 1.004 | 1.500         | 0.015       | 100.0          | 0.000          | 0.00           | 0.0                | 0.600     | o           | 110         |

Network Results Table

| PN    | Rain<br>(mm/hr) | T.C.<br>(mins) | US/IL<br>(m) | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s) | Foul<br>(l/s) | Add Flow<br>(l/s) | Vel<br>(m/s) | Cap<br>(l/s) | Flow<br>(l/s) |
|-------|-----------------|----------------|--------------|------------------|----------------------|---------------|-------------------|--------------|--------------|---------------|
| 1.000 | 50.00           | 5.10           | 65.400       | 0.004            | 0.0                  | 0.0           | 0.3               | 2.84         | 27.0         | 1.0           |
| 1.001 | 50.00           | 5.20           | 63.494       | 0.008            | 0.0                  | 0.0           | 0.6               | 0.82         | 7.8          | 2.1           |
| 2.000 | 50.00           | 5.02           | 65.400       | 0.004            | 0.0                  | 0.0           | 0.3               | 2.69         | 25.5         | 1.0           |
| 2.001 | 50.00           | 5.07           | 65.000       | 0.008            | 0.0                  | 0.0           | 0.6               | 3.38         | 32.2         | 2.1           |
| 1.002 | 50.00           | 5.26           | 63.444       | 0.016            | 0.0                  | 0.0           | 1.3               | 0.92         | 8.7          | 4.2           |
| 1.003 | 50.00           | 5.28           | 63.250       | 0.016            | 0.0                  | 0.0           | 1.3               | 0.82         | 7.8          | 4.2           |
| 1.004 | 50.00           | 5.31           | 63.100       | 0.016            | 0.0                  | 0.0           | 1.3               | 0.82         | 7.8          | 4.2           |

|                                                         |                                                                              |                                                                                     |
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Manhole Schedules for Storm

| MH Name     | MH CL (m) | MH Depth (m) | MH Connection | MH Diam.,L*W (mm) | PN    | Pipe Out Invert Level (m) | Diameter (mm) | PN    | Pipes In Invert Level (m) | Diameter (mm) | Backd (mm) |
|-------------|-----------|--------------|---------------|-------------------|-------|---------------------------|---------------|-------|---------------------------|---------------|------------|
| RE1         | 66.000    | 0.600        | Open Manhole  | 110               | 1.000 | 65.400                    | 110           |       |                           |               |            |
| S1          | 64.100    | 0.606        | Open Manhole  | 600               | 1.001 | 63.494                    | 110           | 1.000 | 63.494                    | 110           |            |
| RE2         | 66.000    | 0.600        | Open Manhole  | 110               | 2.000 | 65.400                    | 110           |       |                           |               |            |
| S2          | 65.650    | 0.650        | Open Manhole  | 600               | 2.001 | 65.000                    | 110           | 2.000 | 65.021                    | 110           |            |
| S3          | 64.100    | 0.656        | Open Manhole  | 600               | 1.002 | 63.444                    | 110           | 1.001 | 63.444                    | 110           |            |
|             |           |              |               |                   |       |                           |               | 2.001 | 63.467                    | 110           |            |
| S4          | 64.000    | 0.750        | Open Manhole  | 600               | 1.003 | 63.250                    | 110           | 1.002 | 63.399                    | 110           |            |
| RAIN GARDEN | 63.700    | 0.600        | Open Manhole  | 600               | 1.004 | 63.100                    | 110           | 1.003 | 63.240                    | 110           |            |
| Dummy       | 63.800    | 0.715        | Open Manhole  | 600               |       | OUTFALL                   |               | 1.004 | 63.085                    | 110           |            |

|                                                         |                                                                              |
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#### PIPELINE SCHEDULES for Storm

##### Upstream Manhole

| PN    | Hyd Sect | Diam (mm) | MH Name     | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
|-------|----------|-----------|-------------|-------------|-------------|-------------|---------------|--------------------|
| 1.000 | o        | 110       | RE1         | 66.000      | 65.400      | 0.490       | Open Manhole  | 110                |
| 1.001 | o        | 110       | S1          | 64.100      | 63.494      | 0.496       | Open Manhole  | 600                |
| 2.000 | o        | 110       | RE2         | 66.000      | 65.400      | 0.490       | Open Manhole  | 110                |
| 2.001 | o        | 110       | S2          | 65.650      | 65.000      | 0.540       | Open Manhole  | 600                |
| 1.002 | o        | 110       | S3          | 64.100      | 63.444      | 0.546       | Open Manhole  | 600                |
| 1.003 | o        | 110       | S4          | 64.000      | 63.250      | 0.640       | Open Manhole  | 600                |
| 1.004 | o        | 110       | RAIN GARDEN | 63.700      | 63.100      | 0.490       | Open Manhole  | 600                |

##### Downstream Manhole

| PN    | Length (m) | Slope (1:X) | MH Name     | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
|-------|------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------------|
| 1.000 | 16.200     | 8.5         | S1          | 64.100      | 63.494      | 0.496       | Open Manhole  | 600                |
| 1.001 | 5.000      | 100.0       | S3          | 64.100      | 63.444      | 0.546       | Open Manhole  | 600                |
| 2.000 | 3.600      | 9.5         | S2          | 65.650      | 65.021      | 0.519       | Open Manhole  | 600                |
| 2.001 | 9.200      | 6.0         | S3          | 64.100      | 63.467      | 0.523       | Open Manhole  | 600                |
| 1.002 | 3.600      | 80.0        | S4          | 64.000      | 63.399      | 0.491       | Open Manhole  | 600                |
| 1.003 | 1.000      | 100.0       | RAIN GARDEN | 63.700      | 63.240      | 0.350       | Open Manhole  | 600                |
| 1.004 | 1.500      | 100.0       | Dummy       | 63.800      | 63.085      | 0.605       | Open Manhole  | 600                |

##### Free Flowing Outfall Details for Storm

| Outfall Pipe Number | Outfall Name | C. Level (m) | I. Level (m) | Min I. Level (m) | D,L (mm) | W (mm) |
|---------------------|--------------|--------------|--------------|------------------|----------|--------|
|---------------------|--------------|--------------|--------------|------------------|----------|--------|

|       |       |        |        |        |     |   |
|-------|-------|--------|--------|--------|-----|---|
| 1.004 | Dummy | 63.800 | 63.085 | 63.100 | 600 | 0 |
|-------|-------|--------|--------|--------|-----|---|

##### Simulation Criteria for Storm

|                                 |       |                                   |        |
|---------------------------------|-------|-----------------------------------|--------|
| Volumetric Runoff Coeff         | 1.000 | Foul Sewage per hectare (l/s)     | 0.000  |
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow | 45.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m³/ha Storage     | 2.000  |
| Hot Start Level (mm)            | 0     | Run Time (mins)                   | 960    |
| Manhole Headloss Coeff (Global) | 0.500 | Output Interval (mins)            | 8      |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 2 |
| Number of Online Controls   | 2 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 |                              |   |

##### Synthetic Rainfall Details

|                       |                   |                       |        |
|-----------------------|-------------------|-----------------------|--------|
| Rainfall Model        | FSR               | Profile Type          | Summer |
| Return Period (years) | 100               | Cv (Summer)           | 1.000  |
| Region                | England and Wales | Cv (Winter)           | 1.000  |
| M5-60 (mm)            | 20.000            | Storm Duration (mins) | 480    |
| Ratio R               | 0.343             |                       |        |

|                                                         |                                                                              |                                                                                     |
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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m<sup>3</sup>): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m<sup>3</sup>): 0.2

Invert Level (m) 63.100

**Depth (m) Flow (l/s)**

0.700      0.0400

|                                                         |                                                                              |                                                                                     |
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#### Storage Structures for Storm

##### cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0  
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95  
Infiltration Coefficient Side (m/hr) 0.00000

| Depth (m) | Area (m <sup>2</sup> ) | Inf. Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | Inf. Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------------------------|-----------|------------------------|-----------------------------|
| 0.000     | 30.0                   | 30.0                        | 0.500     | 0.0                    | 43.6                        |
| 0.400     | 30.0                   | 43.6                        |           |                        |                             |

##### Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2  
Safety Factor 2.0 Length (m) 7.7  
Porosity 0.30 Cap Volume Depth (m) 0.000  
Invert Level (m) 63.100

#### Manhole Headloss for Storm

| PN    | US/MH<br>Name | US/MH<br>Headloss |
|-------|---------------|-------------------|
| 1.000 | RE1           | 0.500             |
| 1.001 | S1            | 0.500             |
| 2.000 | RE2           | 0.500             |
| 2.001 | S2            | 0.500             |
| 1.002 | S3            | 0.500             |
| 1.003 | S4            | 0.500             |
| 1.004 | RAIN GARDEN   | 0.500             |

|                                                         |                                                                              |                                                                                     |
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Summary of Results for 480 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0      DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

| PN    | US/MH<br>Name | Water<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Flooded<br>Volume<br>(m³) | Flow /<br>Cap. | Overflow<br>(l/s) | Pipe<br>Flow<br>(l/s) | Status     |
|-------|---------------|-----------------------|----------------------------|---------------------------|----------------|-------------------|-----------------------|------------|
| 1.000 | RE1           | 65.411                | -0.099                     | 0.000                     | 0.02           | 0.0               | 0.5                   | OK         |
| 1.001 | S1            | 63.711                | 0.107                      | 0.000                     | 0.16           | 0.0               | 1.1                   | SURCHARGED |
| 2.000 | RE2           | 65.412                | -0.098                     | 0.000                     | 0.03           | 0.0               | 0.5                   | OK         |
| 2.001 | S2            | 65.014                | -0.096                     | 0.000                     | 0.04           | 0.0               | 1.1                   | OK         |
| 1.002 | S3            | 63.711                | 0.157                      | 0.000                     | 0.30           | 0.0               | 2.1                   | SURCHARGED |
| 1.003 | S4            | 63.710                | 0.350                      | 0.000                     | 0.05           | 0.0               | 0.3                   | SURCHARGED |
| 1.004 | RAIN GARDEN   | 63.644                | 0.434                      | 0.000                     | 0.01           | 0.0               | 0.0                   | SURCHARGED |

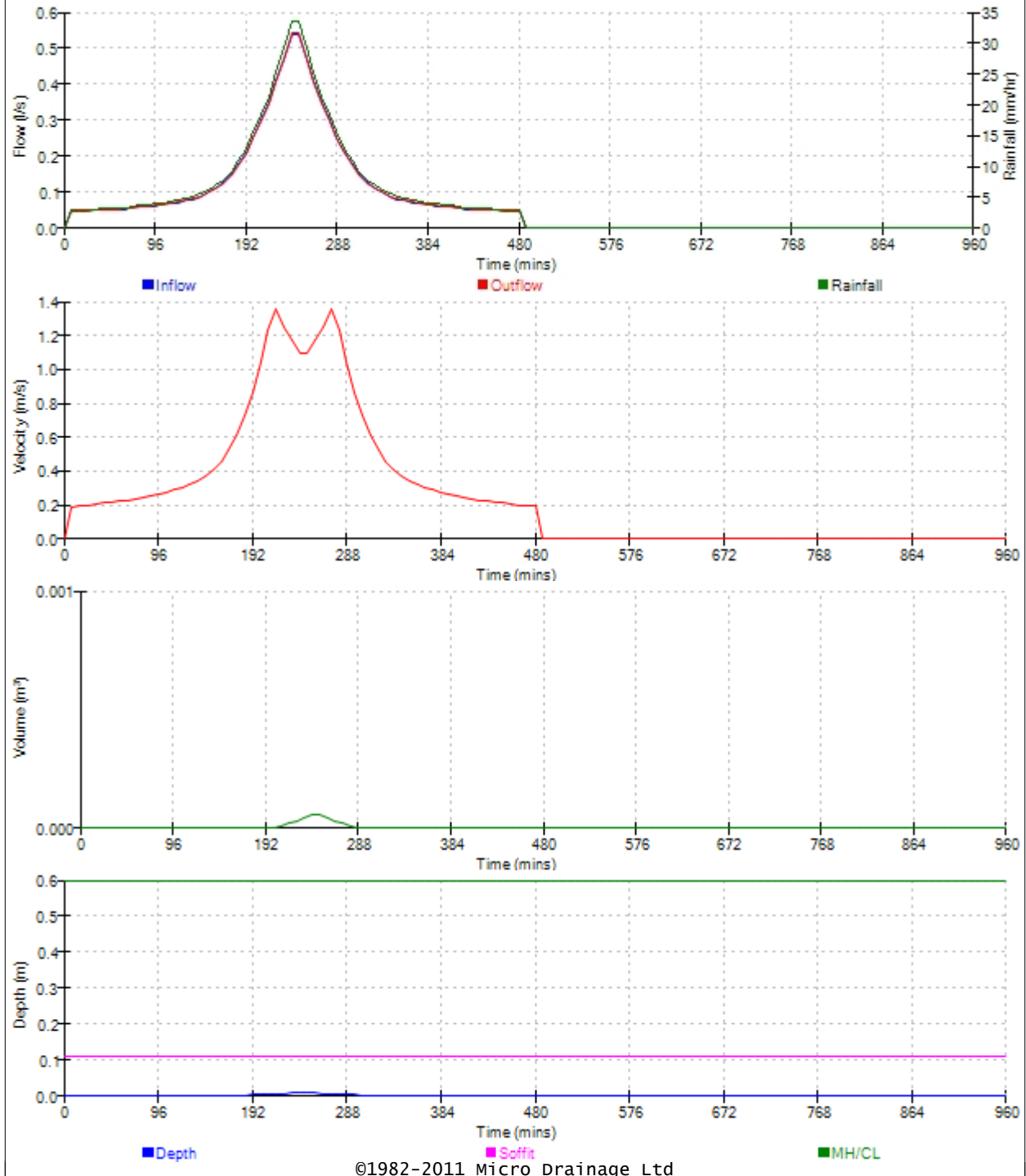
|                                                         |                                                                              |                                                                                     |
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Rainfall Hyetograph for 480 minute 100 year Summer (Storm)

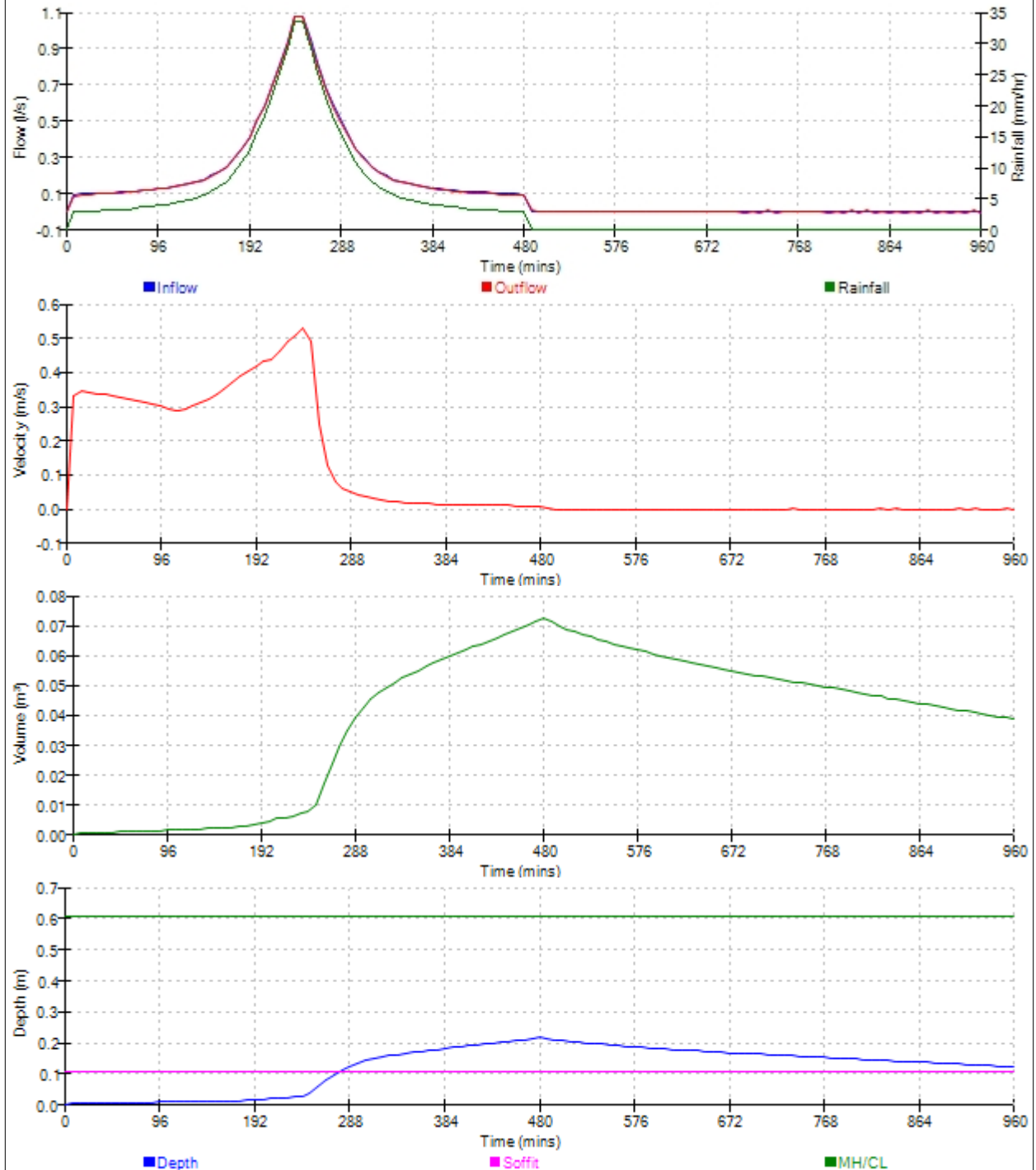
| Time<br>(mins) | Rain<br>(mm/hr) | Time<br>(mins) | Rain<br>(mm/hr) | Time<br>(mins) | Rain<br>(mm/hr) | Time<br>(mins) | Rain<br>(mm/hr) | Time<br>(mins) | Rain<br>(mm/hr) |
|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| 8              | 2.882           | 104            | 4.163           | 200            | 15.762          | 296            | 12.951          | 392            | 3.967           |
| 16             | 2.953           | 112            | 4.376           | 208            | 18.501          | 304            | 10.941          | 400            | 3.825           |
| 24             | 3.024           | 120            | 4.590           | 216            | 21.455          | 312            | 9.197           | 408            | 3.683           |
| 32             | 3.113           | 128            | 4.874           | 224            | 25.297          | 320            | 7.845           | 416            | 3.522           |
| 40             | 3.184           | 136            | 5.177           | 232            | 29.211          | 328            | 6.938           | 424            | 3.398           |
| 48             | 3.256           | 144            | 5.586           | 240            | 33.658          | 336            | 6.191           | 432            | 3.327           |
| 56             | 3.327           | 152            | 6.191           | 248            | 33.658          | 344            | 5.586           | 440            | 3.256           |
| 64             | 3.398           | 160            | 6.938           | 256            | 29.211          | 352            | 5.177           | 448            | 3.184           |
| 72             | 3.522           | 168            | 7.845           | 264            | 25.297          | 360            | 4.874           | 456            | 3.113           |
| 80             | 3.683           | 176            | 9.197           | 272            | 21.455          | 368            | 4.590           | 464            | 3.024           |
| 88             | 3.825           | 184            | 10.941          | 280            | 18.501          | 376            | 4.376           | 472            | 2.953           |
| 96             | 3.967           | 192            | 12.951          | 288            | 15.762          | 384            | 4.163           | 480            | 2.882           |

|                                                         |                                                                              |                                                                                     |
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Graphs for Pipe 1.000 US/MH RE1 (Storm)  
480 minute 100 year Summer  
Status: OK

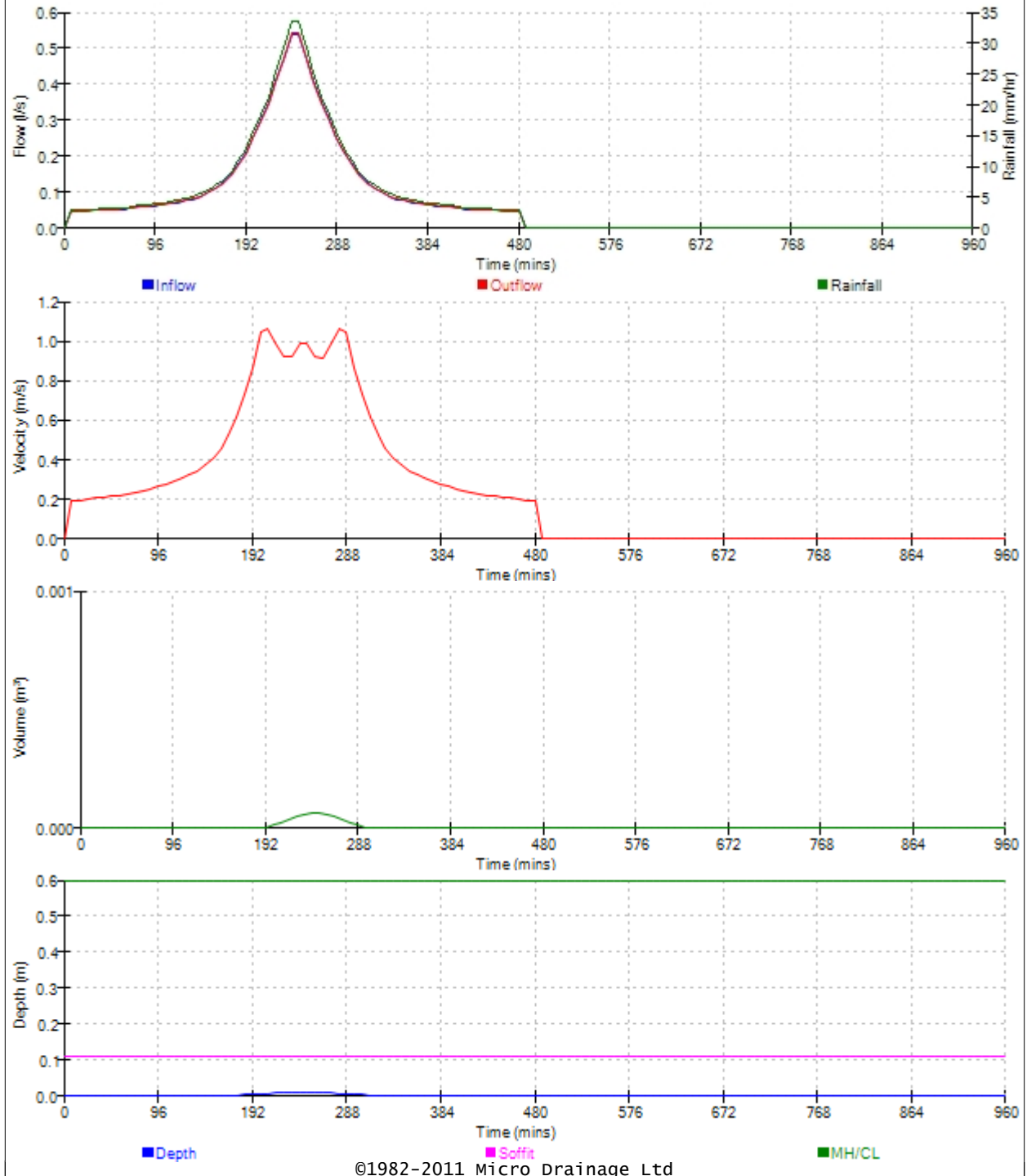


Graphs for Pipe 1.001 US/MH S1 (Storm)  
480 minute 100 year Summer  
Status: SURCHARGED



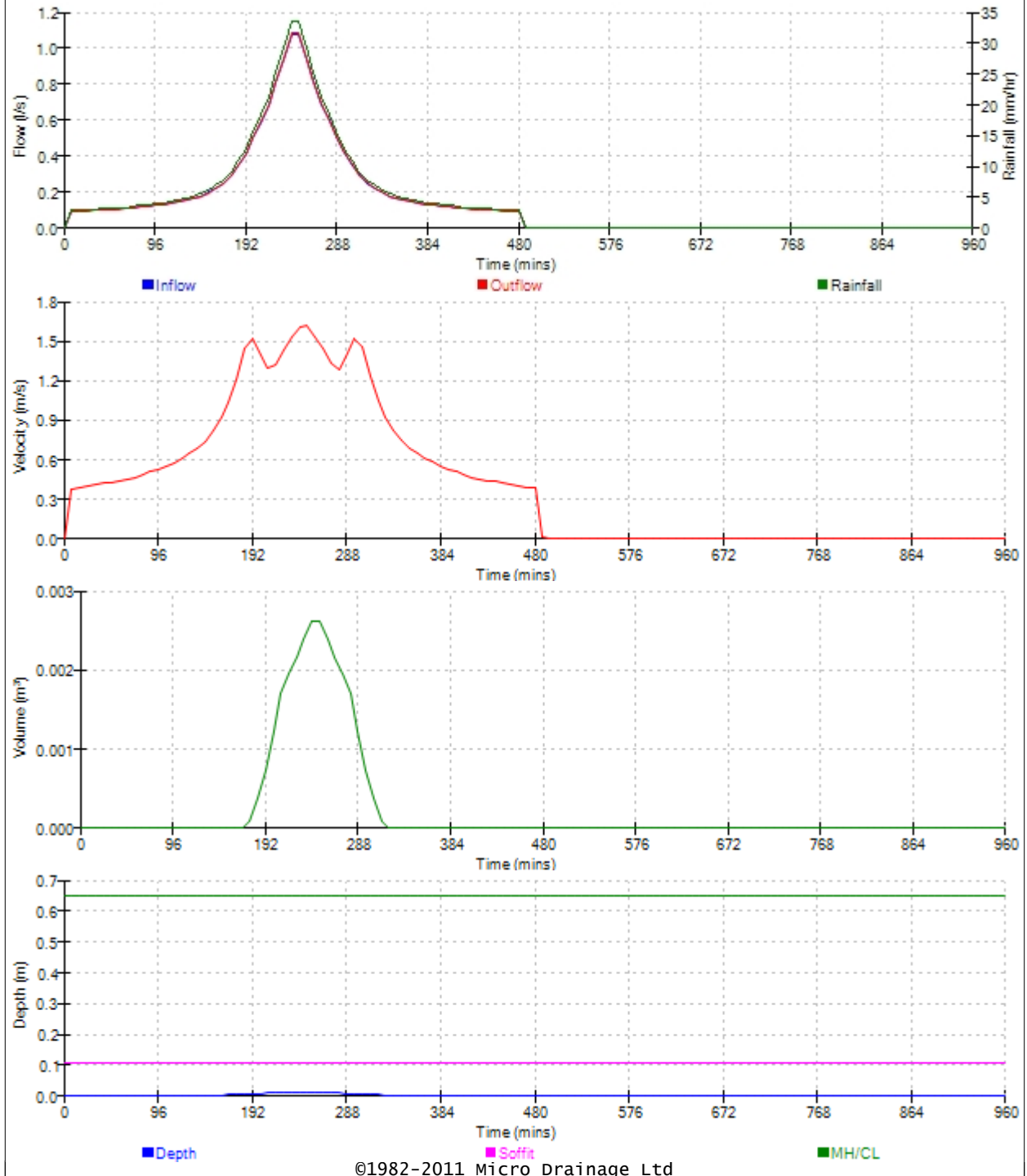
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Graphs for Pipe 2.000 US/MH RE2 (Storm)  
480 minute 100 year Summer  
Status: OK

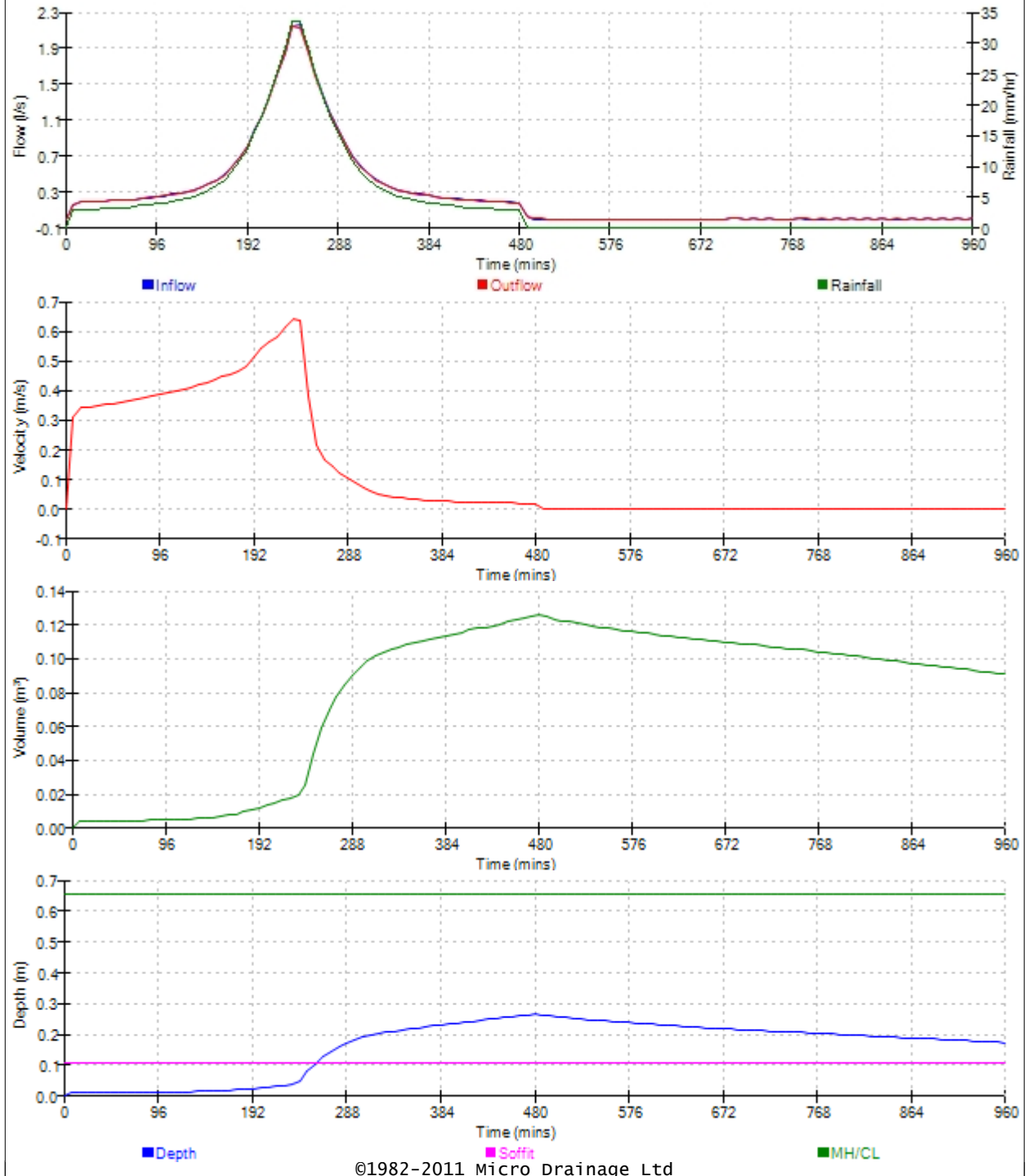


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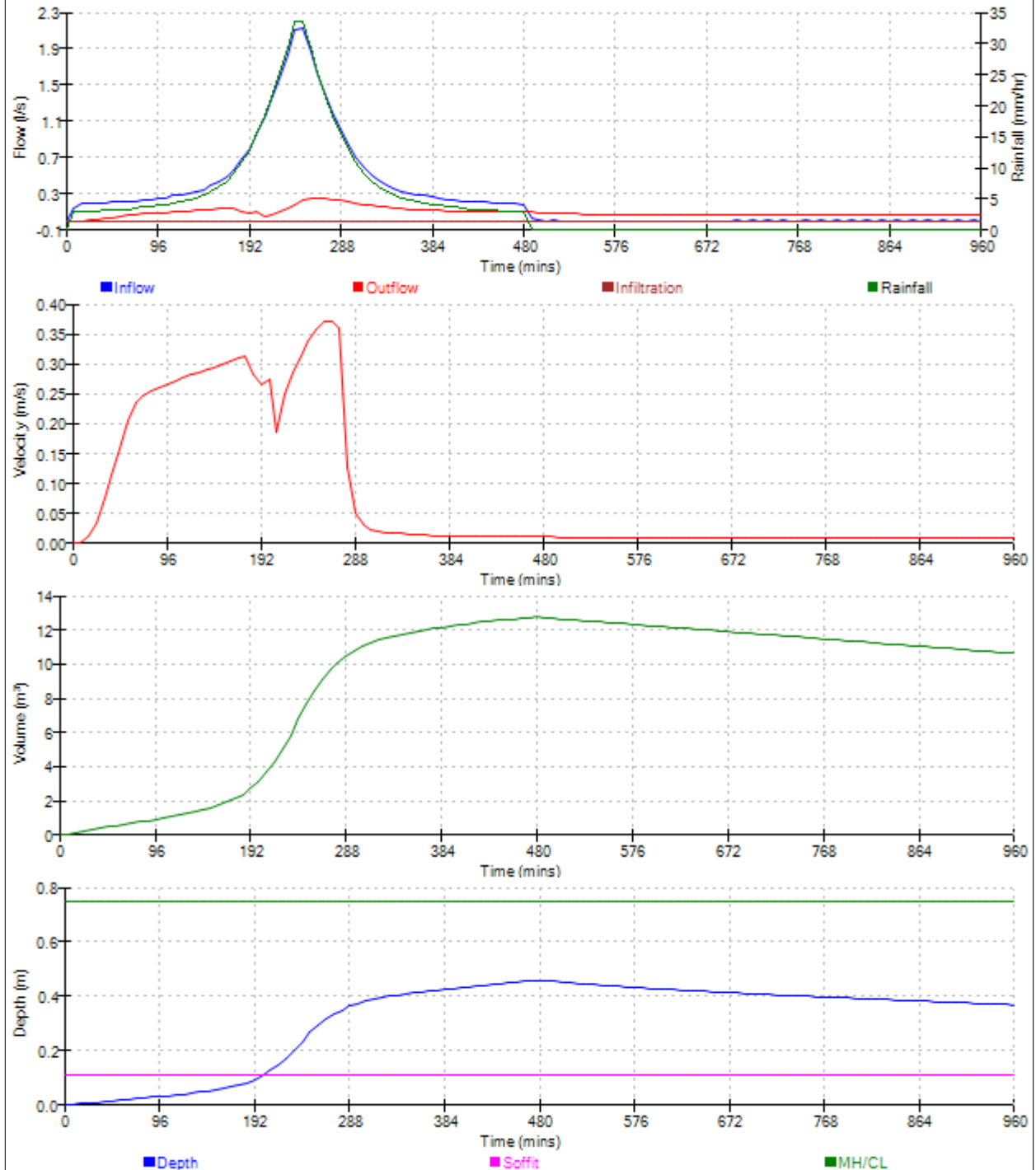
Graphs for Pipe 2.001 US/MH S2 (Storm)  
480 minute 100 year Summer  
Status: OK



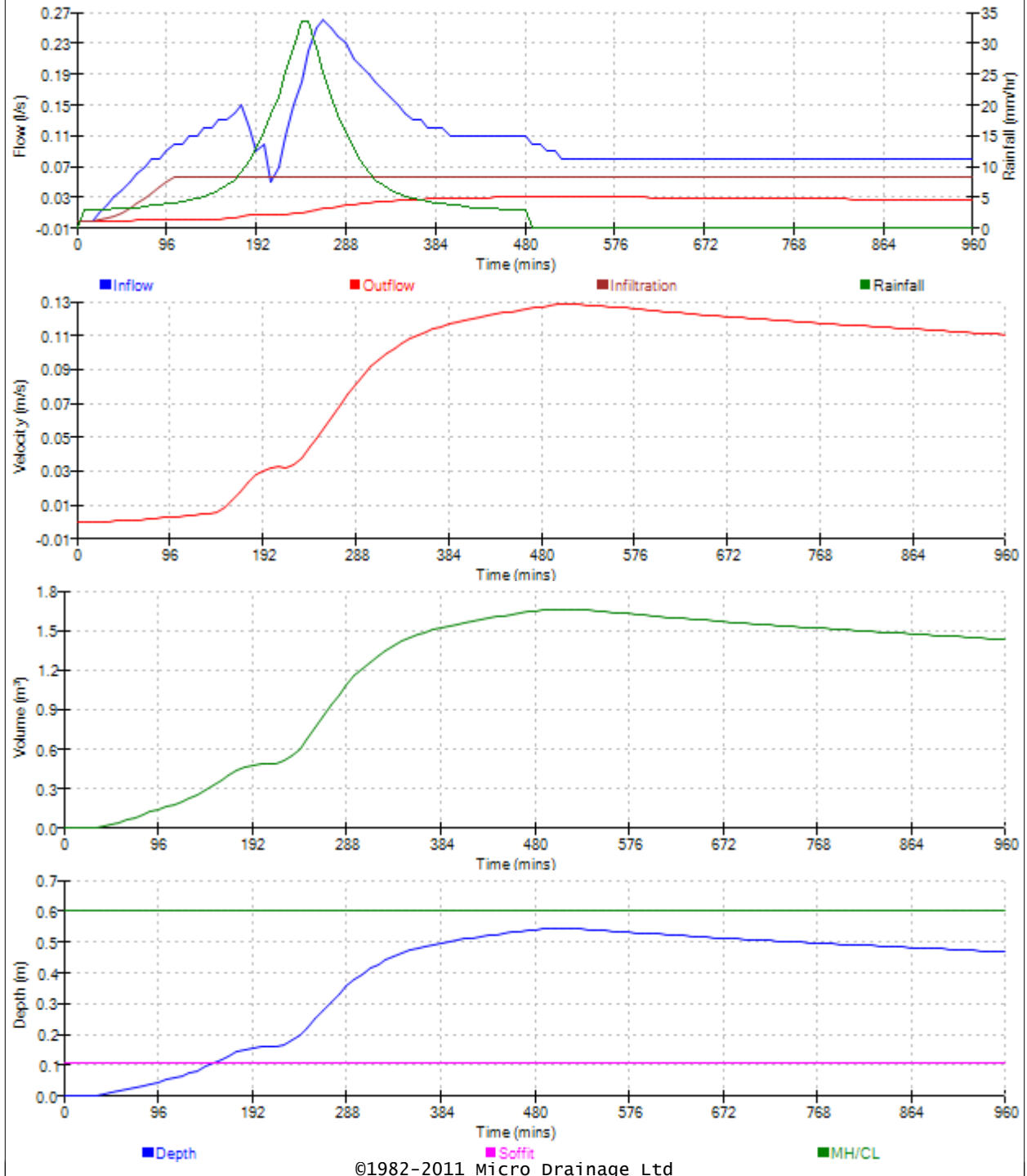
Graphs for Pipe 1.002 US/MH S3 (Storm)  
 480 minute 100 year Summer  
 Status: SURCHARGED



Graphs for Pipe 1.003 US/MH S4 (Storm)  
480 minute 100 year Summer  
Status: SURCHARGED



**Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)**  
**480 minute 100 year Summer**  
**Status: SURCHARGED**



|                                                         |                                                                              |                                                                                     |
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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 8              | 65.401                   | 63.501                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 16             | 65.401                   | 63.502                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 24             | 65.401                   | 63.502                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 32             | 65.401                   | 63.502                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 40             | 65.401                   | 63.502                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 48             | 65.401                   | 63.502                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 56             | 65.401                   | 63.502                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 64             | 65.401                   | 63.503                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 72             | 65.401                   | 63.503                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 80             | 65.401                   | 63.503                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 88             | 65.401                   | 63.504                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 96             | 65.401                   | 63.504                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 104            | 65.401                   | 63.505                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 112            | 65.401                   | 63.505                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 120            | 65.402                   | 63.505                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 128            | 65.402                   | 63.505                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 136            | 65.402                   | 63.506                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 144            | 65.402                   | 63.506                     | -0.108                     | 0.0            | 0.4                      | 0.1                |
| 152            | 65.402                   | 63.507                     | -0.108                     | 0.0            | 0.4                      | 0.1                |
| 160            | 65.402                   | 63.507                     | -0.108                     | 0.0            | 0.5                      | 0.1                |
| 168            | 65.403                   | 63.508                     | -0.107                     | 0.0            | 0.5                      | 0.1                |
| 176            | 65.403                   | 63.509                     | -0.107                     | 0.0            | 0.6                      | 0.1                |
| 184            | 65.404                   | 63.510                     | -0.106                     | 0.0            | 0.7                      | 0.2                |
| 192            | 65.404                   | 63.512                     | -0.106                     | 0.0            | 0.9                      | 0.2                |
| 200            | 65.405                   | 63.514                     | -0.105                     | 0.0            | 1.0                      | 0.3                |
| 208            | 65.406                   | 63.516                     | -0.104                     | 0.0            | 1.2                      | 0.3                |
| 216            | 65.407                   | 63.518                     | -0.103                     | 0.0            | 1.4                      | 0.3                |
| 224            | 65.408                   | 63.519                     | -0.102                     | 0.0            | 1.3                      | 0.4                |
| 232            | 65.410                   | 63.521                     | -0.100                     | 0.0            | 1.2                      | 0.5                |
| 240            | 65.411                   | 63.524                     | -0.099                     | 0.0            | 1.1                      | 0.5                |
| 248            | 65.411                   | 63.531                     | -0.099                     | 0.0            | 1.1                      | 0.5                |
| 256            | 65.410                   | 63.553                     | -0.100                     | 0.0            | 1.2                      | 0.5                |
| 264            | 65.408                   | 63.575                     | -0.102                     | 0.0            | 1.3                      | 0.4                |
| 272            | 65.407                   | 63.592                     | -0.103                     | 0.0            | 1.4                      | 0.3                |
| 280            | 65.406                   | 63.607                     | -0.104                     | 0.0            | 1.2                      | 0.3                |
| 288            | 65.405                   | 63.619                     | -0.105                     | 0.0            | 1.0                      | 0.3                |
| 296            | 65.404                   | 63.629                     | -0.106                     | 0.0            | 0.9                      | 0.2                |
| 304            | 65.404                   | 63.637                     | -0.106                     | 0.0            | 0.7                      | 0.2                |
| 312            | 65.403                   | 63.643                     | -0.107                     | 0.0            | 0.6                      | 0.1                |
| 320            | 65.403                   | 63.648                     | -0.107                     | 0.0            | 0.5                      | 0.1                |
| 328            | 65.402                   | 63.653                     | -0.108                     | 0.0            | 0.5                      | 0.1                |
| 336            | 65.402                   | 63.656                     | -0.108                     | 0.0            | 0.4                      | 0.1                |
| 344            | 65.402                   | 63.660                     | -0.108                     | 0.0            | 0.4                      | 0.1                |
| 352            | 65.402                   | 63.663                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 360            | 65.402                   | 63.667                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 368            | 65.401                   | 63.670                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 376            | 65.401                   | 63.673                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 384            | 65.401                   | 63.676                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 392            | 65.401                   | 63.679                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 400            | 65.401                   | 63.682                     | -0.109                     | 0.0            | 0.3                      | 0.1                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 16                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 408            | 65.401                   | 63.685                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 416            | 65.401                   | 63.688                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 424            | 65.401                   | 63.691                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 432            | 65.401                   | 63.694                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 440            | 65.401                   | 63.696                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 448            | 65.401                   | 63.699                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 456            | 65.401                   | 63.702                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 464            | 65.401                   | 63.705                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 472            | 65.401                   | 63.708                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 480            | 65.401                   | 63.711                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 488            | 65.400                   | 63.708                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 496            | 65.400                   | 63.704                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 504            | 65.400                   | 63.701                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 512            | 65.400                   | 63.699                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 520            | 65.400                   | 63.697                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 528            | 65.400                   | 63.695                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 536            | 65.400                   | 63.692                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 544            | 65.400                   | 63.690                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 552            | 65.400                   | 63.688                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 560            | 65.400                   | 63.686                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 568            | 65.400                   | 63.684                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 576            | 65.400                   | 63.682                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 584            | 65.400                   | 63.680                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 592            | 65.400                   | 63.679                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 600            | 65.400                   | 63.677                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 608            | 65.400                   | 63.675                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 616            | 65.400                   | 63.674                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 624            | 65.400                   | 63.672                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 632            | 65.400                   | 63.670                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 640            | 65.400                   | 63.669                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 648            | 65.400                   | 63.667                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 656            | 65.400                   | 63.666                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 664            | 65.400                   | 63.664                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 672            | 65.400                   | 63.663                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 680            | 65.400                   | 63.661                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 688            | 65.400                   | 63.660                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 696            | 65.400                   | 63.659                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 704            | 65.400                   | 63.658                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 712            | 65.400                   | 63.657                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 720            | 65.400                   | 63.655                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 728            | 65.400                   | 63.654                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 736            | 65.400                   | 63.653                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 744            | 65.400                   | 63.651                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 752            | 65.400                   | 63.651                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 760            | 65.400                   | 63.649                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 768            | 65.400                   | 63.647                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 776            | 65.400                   | 63.647                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 784            | 65.400                   | 63.645                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 792            | 65.400                   | 63.644                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 800            | 65.400                   | 63.643                     | -0.110                     | 0.0            | 0.0                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 17                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 808            | 65.400                   | 63.641                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 816            | 65.400                   | 63.640                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 824            | 65.400                   | 63.639                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 832            | 65.400                   | 63.637                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 840            | 65.400                   | 63.636                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 848            | 65.400                   | 63.635                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 856            | 65.400                   | 63.634                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 864            | 65.400                   | 63.632                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 872            | 65.400                   | 63.632                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 880            | 65.400                   | 63.630                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 888            | 65.400                   | 63.629                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 896            | 65.400                   | 63.628                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 904            | 65.400                   | 63.627                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 912            | 65.400                   | 63.625                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 920            | 65.400                   | 63.624                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 928            | 65.400                   | 63.622                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 936            | 65.400                   | 63.621                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 944            | 65.400                   | 63.620                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 952            | 65.400                   | 63.619                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 960            | 65.400                   | 63.618                     | -0.110                     | 0.0            | 0.0                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
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| Dixon Hurst Kemp                                        |                                                                              | Page 18                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road, Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.001 US/MH S1 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 8              | 63.501                   | 63.456                     | -0.103                     | 0.0            | 0.3                      | 0.1                |
| 16             | 63.502                   | 63.456                     | -0.103                     | 0.0            | 0.3                      | 0.1                |
| 24             | 63.502                   | 63.456                     | -0.102                     | 0.0            | 0.3                      | 0.1                |
| 32             | 63.502                   | 63.456                     | -0.102                     | 0.0            | 0.3                      | 0.1                |
| 40             | 63.502                   | 63.456                     | -0.102                     | 0.0            | 0.3                      | 0.1                |
| 48             | 63.502                   | 63.456                     | -0.102                     | 0.0            | 0.3                      | 0.1                |
| 56             | 63.502                   | 63.457                     | -0.102                     | 0.0            | 0.3                      | 0.1                |
| 64             | 63.503                   | 63.457                     | -0.102                     | 0.0            | 0.3                      | 0.1                |
| 72             | 63.503                   | 63.457                     | -0.101                     | 0.0            | 0.3                      | 0.1                |
| 80             | 63.503                   | 63.457                     | -0.101                     | 0.0            | 0.3                      | 0.1                |
| 88             | 63.504                   | 63.457                     | -0.100                     | 0.0            | 0.3                      | 0.1                |
| 96             | 63.504                   | 63.458                     | -0.100                     | 0.0            | 0.3                      | 0.1                |
| 104            | 63.505                   | 63.458                     | -0.100                     | 0.0            | 0.3                      | 0.1                |
| 112            | 63.505                   | 63.458                     | -0.099                     | 0.0            | 0.3                      | 0.1                |
| 120            | 63.505                   | 63.458                     | -0.099                     | 0.0            | 0.3                      | 0.1                |
| 128            | 63.505                   | 63.459                     | -0.099                     | 0.0            | 0.3                      | 0.2                |
| 136            | 63.506                   | 63.459                     | -0.098                     | 0.0            | 0.3                      | 0.2                |
| 144            | 63.506                   | 63.460                     | -0.098                     | 0.0            | 0.3                      | 0.2                |
| 152            | 63.507                   | 63.461                     | -0.098                     | 0.0            | 0.3                      | 0.2                |
| 160            | 63.507                   | 63.462                     | -0.097                     | 0.0            | 0.4                      | 0.2                |
| 168            | 63.508                   | 63.463                     | -0.096                     | 0.0            | 0.4                      | 0.3                |
| 176            | 63.509                   | 63.465                     | -0.095                     | 0.0            | 0.4                      | 0.3                |
| 184            | 63.510                   | 63.467                     | -0.094                     | 0.0            | 0.4                      | 0.3                |
| 192            | 63.512                   | 63.469                     | -0.092                     | 0.0            | 0.4                      | 0.4                |
| 200            | 63.514                   | 63.472                     | -0.090                     | 0.0            | 0.4                      | 0.5                |
| 208            | 63.516                   | 63.474                     | -0.088                     | 0.0            | 0.4                      | 0.6                |
| 216            | 63.518                   | 63.477                     | -0.087                     | 0.0            | 0.5                      | 0.7                |
| 224            | 63.519                   | 63.480                     | -0.085                     | 0.0            | 0.5                      | 0.8                |
| 232            | 63.521                   | 63.482                     | -0.083                     | 0.0            | 0.5                      | 0.9                |
| 240            | 63.524                   | 63.492                     | -0.081                     | 0.0            | 0.5                      | 1.1                |
| 248            | 63.531                   | 63.523                     | -0.074                     | 0.0            | 0.5                      | 1.1                |
| 256            | 63.553                   | 63.549                     | -0.051                     | 0.0            | 0.2                      | 0.9                |
| 264            | 63.575                   | 63.571                     | -0.030                     | 0.0            | 0.1                      | 0.8                |
| 272            | 63.592                   | 63.589                     | -0.012                     | 0.0            | 0.1                      | 0.7                |
| 280            | 63.607                   | 63.605                     | 0.003                      | 0.0            | 0.1                      | 0.6                |
| 288            | 63.619                   | 63.617                     | 0.015                      | 0.0            | 0.1                      | 0.5                |
| 296            | 63.629                   | 63.627                     | 0.025                      | 0.0            | 0.0                      | 0.4                |
| 304            | 63.637                   | 63.635                     | 0.033                      | 0.0            | 0.0                      | 0.3                |
| 312            | 63.643                   | 63.642                     | 0.039                      | 0.0            | 0.0                      | 0.3                |
| 320            | 63.648                   | 63.647                     | 0.044                      | 0.0            | 0.0                      | 0.2                |
| 328            | 63.653                   | 63.652                     | 0.048                      | 0.0            | 0.0                      | 0.2                |
| 336            | 63.656                   | 63.656                     | 0.052                      | 0.0            | 0.0                      | 0.2                |
| 344            | 63.660                   | 63.659                     | 0.056                      | 0.0            | 0.0                      | 0.2                |
| 352            | 63.663                   | 63.663                     | 0.059                      | 0.0            | 0.0                      | 0.2                |
| 360            | 63.667                   | 63.666                     | 0.063                      | 0.0            | 0.0                      | 0.2                |
| 368            | 63.670                   | 63.669                     | 0.066                      | 0.0            | 0.0                      | 0.1                |
| 376            | 63.673                   | 63.672                     | 0.069                      | 0.0            | 0.0                      | 0.1                |
| 384            | 63.676                   | 63.676                     | 0.072                      | 0.0            | 0.0                      | 0.1                |
| 392            | 63.679                   | 63.679                     | 0.075                      | 0.0            | 0.0                      | 0.1                |
| 400            | 63.682                   | 63.682                     | 0.078                      | 0.0            | 0.0                      | 0.1                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 19                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road, Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.001 US/MH S1 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 408            | 63.685                   | 63.685                     | 0.081                      | 0.0                | 0.0               | 0.1                |
| 416            | 63.688                   | 63.687                     | 0.084                      | 0.0                | 0.0               | 0.1                |
| 424            | 63.691                   | 63.690                     | 0.087                      | 0.0                | 0.0               | 0.1                |
| 432            | 63.694                   | 63.693                     | 0.089                      | 0.0                | 0.0               | 0.1                |
| 440            | 63.696                   | 63.696                     | 0.092                      | 0.0                | 0.0               | 0.1                |
| 448            | 63.699                   | 63.699                     | 0.095                      | 0.0                | 0.0               | 0.1                |
| 456            | 63.702                   | 63.702                     | 0.098                      | 0.0                | 0.0               | 0.1                |
| 464            | 63.705                   | 63.705                     | 0.101                      | 0.0                | 0.0               | 0.1                |
| 472            | 63.708                   | 63.708                     | 0.104                      | 0.0                | 0.0               | 0.1                |
| 480            | 63.711                   | 63.711                     | 0.107                      | 0.0                | 0.0               | 0.1                |
| 488            | 63.708                   | 63.708                     | 0.104                      | 0.0                | 0.0               | 0.0                |
| 496            | 63.704                   | 63.704                     | 0.100                      | 0.0                | 0.0               | 0.0                |
| 504            | 63.701                   | 63.701                     | 0.097                      | 0.0                | 0.0               | 0.0                |
| 512            | 63.699                   | 63.699                     | 0.095                      | 0.0                | 0.0               | 0.0                |
| 520            | 63.697                   | 63.697                     | 0.093                      | 0.0                | 0.0               | 0.0                |
| 528            | 63.695                   | 63.695                     | 0.090                      | 0.0                | 0.0               | 0.0                |
| 536            | 63.692                   | 63.692                     | 0.087                      | 0.0                | 0.0               | 0.0                |
| 544            | 63.690                   | 63.690                     | 0.086                      | 0.0                | 0.0               | 0.0                |
| 552            | 63.688                   | 63.688                     | 0.084                      | 0.0                | 0.0               | 0.0                |
| 560            | 63.686                   | 63.686                     | 0.082                      | 0.0                | 0.0               | 0.0                |
| 568            | 63.684                   | 63.684                     | 0.080                      | 0.0                | 0.0               | 0.0                |
| 576            | 63.682                   | 63.682                     | 0.078                      | 0.0                | 0.0               | 0.0                |
| 584            | 63.680                   | 63.681                     | 0.076                      | 0.0                | 0.0               | 0.0                |
| 592            | 63.679                   | 63.679                     | 0.074                      | 0.0                | 0.0               | 0.0                |
| 600            | 63.677                   | 63.677                     | 0.073                      | 0.0                | 0.0               | 0.0                |
| 608            | 63.675                   | 63.675                     | 0.071                      | 0.0                | 0.0               | 0.0                |
| 616            | 63.674                   | 63.674                     | 0.069                      | 0.0                | 0.0               | 0.0                |
| 624            | 63.672                   | 63.672                     | 0.068                      | 0.0                | 0.0               | 0.0                |
| 632            | 63.670                   | 63.671                     | 0.066                      | 0.0                | 0.0               | 0.0                |
| 640            | 63.669                   | 63.669                     | 0.065                      | 0.0                | 0.0               | 0.0                |
| 648            | 63.667                   | 63.668                     | 0.063                      | 0.0                | 0.0               | 0.0                |
| 656            | 63.666                   | 63.666                     | 0.062                      | 0.0                | 0.0               | 0.0                |
| 664            | 63.664                   | 63.665                     | 0.060                      | 0.0                | 0.0               | 0.0                |
| 672            | 63.663                   | 63.663                     | 0.059                      | 0.0                | 0.0               | 0.0                |
| 680            | 63.661                   | 63.662                     | 0.057                      | 0.0                | 0.0               | 0.0                |
| 688            | 63.660                   | 63.660                     | 0.056                      | 0.0                | 0.0               | 0.0                |
| 696            | 63.659                   | 63.659                     | 0.055                      | 0.0                | 0.0               | 0.0                |
| 704            | 63.658                   | 63.659                     | 0.054                      | 0.0                | 0.0               | 0.0                |
| 712            | 63.657                   | 63.657                     | 0.053                      | 0.0                | 0.0               | 0.0                |
| 720            | 63.655                   | 63.655                     | 0.051                      | 0.0                | 0.0               | 0.0                |
| 728            | 63.654                   | 63.654                     | 0.050                      | 0.0                | 0.0               | 0.0                |
| 736            | 63.653                   | 63.653                     | 0.049                      | 0.0                | 0.0               | 0.0                |
| 744            | 63.651                   | 63.652                     | 0.047                      | 0.0                | 0.0               | 0.0                |
| 752            | 63.651                   | 63.651                     | 0.047                      | 0.0                | 0.0               | 0.0                |
| 760            | 63.649                   | 63.648                     | 0.044                      | 0.0                | 0.0               | 0.0                |
| 768            | 63.647                   | 63.647                     | 0.043                      | 0.0                | 0.0               | 0.0                |
| 776            | 63.647                   | 63.647                     | 0.043                      | 0.0                | 0.0               | 0.0                |
| 784            | 63.645                   | 63.645                     | 0.041                      | 0.0                | 0.0               | 0.0                |
| 792            | 63.644                   | 63.644                     | 0.040                      | 0.0                | 0.0               | 0.0                |
| 800            | 63.643                   | 63.643                     | 0.039                      | 0.0                | 0.0               | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 20                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.001 US/MH S1 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|-----------------------|-------------------|--------------------|
| 808            | 63.641                   | 63.642                     | 0.037                      | 0.0                   | 0.0               | 0.0                |
| 816            | 63.640                   | 63.641                     | 0.036                      | 0.0                   | 0.0               | 0.0                |
| 824            | 63.639                   | 63.639                     | 0.035                      | 0.0                   | 0.0               | 0.0                |
| 832            | 63.637                   | 63.637                     | 0.033                      | 0.0                   | 0.0               | 0.0                |
| 840            | 63.636                   | 63.637                     | 0.032                      | 0.0                   | 0.0               | 0.0                |
| 848            | 63.635                   | 63.635                     | 0.031                      | 0.0                   | 0.0               | 0.0                |
| 856            | 63.634                   | 63.634                     | 0.030                      | 0.0                   | 0.0               | 0.0                |
| 864            | 63.632                   | 63.633                     | 0.028                      | 0.0                   | 0.0               | 0.0                |
| 872            | 63.632                   | 63.632                     | 0.028                      | 0.0                   | 0.0               | 0.0                |
| 880            | 63.630                   | 63.630                     | 0.026                      | 0.0                   | 0.0               | 0.0                |
| 888            | 63.629                   | 63.629                     | 0.025                      | 0.0                   | 0.0               | 0.0                |
| 896            | 63.628                   | 63.628                     | 0.024                      | 0.0                   | 0.0               | 0.0                |
| 904            | 63.627                   | 63.627                     | 0.023                      | 0.0                   | 0.0               | 0.0                |
| 912            | 63.625                   | 63.626                     | 0.021                      | 0.0                   | 0.0               | 0.0                |
| 920            | 63.624                   | 63.624                     | 0.020                      | 0.0                   | 0.0               | 0.0                |
| 928            | 63.622                   | 63.622                     | 0.018                      | 0.0                   | 0.0               | 0.0                |
| 936            | 63.621                   | 63.622                     | 0.017                      | 0.0                   | 0.0               | 0.0                |
| 944            | 63.620                   | 63.621                     | 0.016                      | 0.0                   | 0.0               | 0.0                |
| 952            | 63.619                   | 63.619                     | 0.015                      | 0.0                   | 0.0               | 0.0                |
| 960            | 63.618                   | 63.618                     | 0.014                      | 0.0                   | 0.0               | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 21                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 8              | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 16             | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 24             | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 32             | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 40             | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 48             | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 56             | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 64             | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 72             | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 80             | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 88             | 65.402                   | 65.002                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 96             | 65.402                   | 65.002                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 104            | 65.402                   | 65.002                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 112            | 65.402                   | 65.002                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 120            | 65.402                   | 65.003                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 128            | 65.402                   | 65.003                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 136            | 65.402                   | 65.003                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 144            | 65.402                   | 65.003                     | -0.108                     | 0.0            | 0.4                      | 0.1                |
| 152            | 65.403                   | 65.004                     | -0.107                     | 0.0            | 0.4                      | 0.1                |
| 160            | 65.403                   | 65.004                     | -0.107                     | 0.0            | 0.5                      | 0.1                |
| 168            | 65.403                   | 65.004                     | -0.107                     | 0.0            | 0.5                      | 0.1                |
| 176            | 65.404                   | 65.005                     | -0.106                     | 0.0            | 0.6                      | 0.1                |
| 184            | 65.404                   | 65.006                     | -0.106                     | 0.0            | 0.7                      | 0.2                |
| 192            | 65.405                   | 65.007                     | -0.105                     | 0.0            | 0.9                      | 0.2                |
| 200            | 65.406                   | 65.009                     | -0.104                     | 0.0            | 1.0                      | 0.3                |
| 208            | 65.407                   | 65.011                     | -0.103                     | 0.0            | 1.1                      | 0.3                |
| 216            | 65.409                   | 65.011                     | -0.101                     | 0.0            | 1.0                      | 0.3                |
| 224            | 65.410                   | 65.012                     | -0.100                     | 0.0            | 0.9                      | 0.4                |
| 232            | 65.411                   | 65.013                     | -0.099                     | 0.0            | 0.9                      | 0.5                |
| 240            | 65.412                   | 65.014                     | -0.098                     | 0.0            | 1.0                      | 0.5                |
| 248            | 65.412                   | 65.014                     | -0.098                     | 0.0            | 1.0                      | 0.5                |
| 256            | 65.411                   | 65.013                     | -0.099                     | 0.0            | 0.9                      | 0.5                |
| 264            | 65.410                   | 65.012                     | -0.100                     | 0.0            | 0.9                      | 0.4                |
| 272            | 65.409                   | 65.011                     | -0.101                     | 0.0            | 1.0                      | 0.3                |
| 280            | 65.407                   | 65.011                     | -0.103                     | 0.0            | 1.1                      | 0.3                |
| 288            | 65.406                   | 65.009                     | -0.104                     | 0.0            | 1.0                      | 0.3                |
| 296            | 65.405                   | 65.007                     | -0.105                     | 0.0            | 0.9                      | 0.2                |
| 304            | 65.404                   | 65.006                     | -0.106                     | 0.0            | 0.7                      | 0.2                |
| 312            | 65.404                   | 65.005                     | -0.106                     | 0.0            | 0.6                      | 0.1                |
| 320            | 65.403                   | 65.004                     | -0.107                     | 0.0            | 0.5                      | 0.1                |
| 328            | 65.403                   | 65.004                     | -0.107                     | 0.0            | 0.5                      | 0.1                |
| 336            | 65.403                   | 65.004                     | -0.107                     | 0.0            | 0.4                      | 0.1                |
| 344            | 65.402                   | 65.003                     | -0.108                     | 0.0            | 0.4                      | 0.1                |
| 352            | 65.402                   | 65.003                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 360            | 65.402                   | 65.003                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 368            | 65.402                   | 65.003                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 376            | 65.402                   | 65.002                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 384            | 65.402                   | 65.002                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 392            | 65.402                   | 65.002                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 400            | 65.402                   | 65.002                     | -0.108                     | 0.0            | 0.3                      | 0.1                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 22                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 408            | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 416            | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 424            | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 432            | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 440            | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 448            | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 456            | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 464            | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 472            | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 480            | 65.401                   | 65.002                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 488            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 496            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 504            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 512            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 520            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 528            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 536            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 544            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 552            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 560            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 568            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 576            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 584            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 592            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 600            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 608            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 616            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 624            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 632            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 640            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 648            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 656            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 664            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 672            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 680            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 688            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 696            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 704            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 712            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 720            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 728            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 736            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 744            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 752            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 760            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 768            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 776            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 784            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 792            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 800            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 23                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 808            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 816            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 824            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 832            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 840            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 848            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 856            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 864            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 872            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 880            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 888            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 896            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 904            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 912            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 920            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 928            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 936            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 944            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 952            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 960            | 65.400                   | 65.000                     | -0.110                     | 0.0            | 0.0                      | 0.0                |



Average Rainfall Intensity 8.895 mm/hr

| Time (mins) | Upstream Level (m) | Downstream Level (m) | Surcharged Depth (m) | Total O/F (l/s) | Velocity (m/s) | Pipe Flow (l/s) |
|-------------|--------------------|----------------------|----------------------|-----------------|----------------|-----------------|
| 408         | 65.002             | 63.685               | -0.108               | 0.0             | 0.5            | 0.1             |
| 416         | 65.002             | 63.687               | -0.108               | 0.0             | 0.5            | 0.1             |
| 424         | 65.002             | 63.690               | -0.108               | 0.0             | 0.5            | 0.1             |
| 432         | 65.002             | 63.693               | -0.108               | 0.0             | 0.4            | 0.1             |
| 440         | 65.002             | 63.696               | -0.108               | 0.0             | 0.4            | 0.1             |
| 448         | 65.002             | 63.699               | -0.108               | 0.0             | 0.4            | 0.1             |
| 456         | 65.002             | 63.702               | -0.108               | 0.0             | 0.4            | 0.1             |
| 464         | 65.002             | 63.705               | -0.108               | 0.0             | 0.4            | 0.1             |
| 472         | 65.002             | 63.708               | -0.108               | 0.0             | 0.4            | 0.1             |
| 480         | 65.002             | 63.711               | -0.108               | 0.0             | 0.4            | 0.1             |
| 488         | 65.000             | 63.708               | -0.110               | 0.0             | 0.0            | 0.0             |
| 496         | 65.000             | 63.704               | -0.110               | 0.0             | 0.0            | 0.0             |
| 504         | 65.000             | 63.701               | -0.110               | 0.0             | 0.0            | 0.0             |
| 512         | 65.000             | 63.699               | -0.110               | 0.0             | 0.0            | 0.0             |
| 520         | 65.000             | 63.697               | -0.110               | 0.0             | 0.0            | 0.0             |
| 528         | 65.000             | 63.695               | -0.110               | 0.0             | 0.0            | 0.0             |
| 536         | 65.000             | 63.692               | -0.110               | 0.0             | 0.0            | 0.0             |
| 544         | 65.000             | 63.690               | -0.110               | 0.0             | 0.0            | 0.0             |
| 552         | 65.000             | 63.688               | -0.110               | 0.0             | 0.0            | 0.0             |
| 560         | 65.000             | 63.686               | -0.110               | 0.0             | 0.0            | 0.0             |
| 568         | 65.000             | 63.684               | -0.110               | 0.0             | 0.0            | 0.0             |
| 576         | 65.000             | 63.682               | -0.110               | 0.0             | 0.0            | 0.0             |
| 584         | 65.000             | 63.681               | -0.110               | 0.0             | 0.0            | 0.0             |
| 592         | 65.000             | 63.679               | -0.110               | 0.0             | 0.0            | 0.0             |
| 600         | 65.000             | 63.677               | -0.110               | 0.0             | 0.0            | 0.0             |
| 608         | 65.000             | 63.675               | -0.110               | 0.0             | 0.0            | 0.0             |
| 616         | 65.000             | 63.674               | -0.110               | 0.0             | 0.0            | 0.0             |
| 624         | 65.000             | 63.672               | -0.110               | 0.0             | 0.0            | 0.0             |
| 632         | 65.000             | 63.671               | -0.110               | 0.0             | 0.0            | 0.0             |
| 640         | 65.000             | 63.669               | -0.110               | 0.0             | 0.0            | 0.0             |
| 648         | 65.000             | 63.668               | -0.110               | 0.0             | 0.0            | 0.0             |
| 656         | 65.000             | 63.666               | -0.110               | 0.0             | 0.0            | 0.0             |
| 664         | 65.000             | 63.665               | -0.110               | 0.0             | 0.0            | 0.0             |
| 672         | 65.000             | 63.663               | -0.110               | 0.0             | 0.0            | 0.0             |
| 680         | 65.000             | 63.662               | -0.110               | 0.0             | 0.0            | 0.0             |
| 688         | 65.000             | 63.660               | -0.110               | 0.0             | 0.0            | 0.0             |
| 696         | 65.000             | 63.659               | -0.110               | 0.0             | 0.0            | 0.0             |
| 704         | 65.000             | 63.659               | -0.110               | 0.0             | 0.0            | 0.0             |
| 712         | 65.000             | 63.657               | -0.110               | 0.0             | 0.0            | 0.0             |
| 720         | 65.000             | 63.655               | -0.110               | 0.0             | 0.0            | 0.0             |
| 728         | 65.000             | 63.654               | -0.110               | 0.0             | 0.0            | 0.0             |
| 736         | 65.000             | 63.653               | -0.110               | 0.0             | 0.0            | 0.0             |
| 744         | 65.000             | 63.652               | -0.110               | 0.0             | 0.0            | 0.0             |
| 752         | 65.000             | 63.651               | -0.110               | 0.0             | 0.0            | 0.0             |
| 760         | 65.000             | 63.648               | -0.110               | 0.0             | 0.0            | 0.0             |
| 768         | 65.000             | 63.647               | -0.110               | 0.0             | 0.0            | 0.0             |
| 776         | 65.000             | 63.647               | -0.110               | 0.0             | 0.0            | 0.0             |
| 784         | 65.000             | 63.645               | -0.110               | 0.0             | 0.0            | 0.0             |
| 792         | 65.000             | 63.644               | -0.110               | 0.0             | 0.0            | 0.0             |
| 800         | 65.000             | 63.643               | -0.110               | 0.0             | 0.0            | 0.0             |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 26                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 2.001 US/MH S2 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 808            | 65.000                   | 63.642                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 816            | 65.000                   | 63.641                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 824            | 65.000                   | 63.639                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 832            | 65.000                   | 63.637                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 840            | 65.000                   | 63.637                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 848            | 65.000                   | 63.635                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 856            | 65.000                   | 63.634                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 864            | 65.000                   | 63.633                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 872            | 65.000                   | 63.632                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 880            | 65.000                   | 63.630                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 888            | 65.000                   | 63.629                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 896            | 65.000                   | 63.628                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 904            | 65.000                   | 63.627                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 912            | 65.000                   | 63.626                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 920            | 65.000                   | 63.624                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 928            | 65.000                   | 63.622                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 936            | 65.000                   | 63.622                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 944            | 65.000                   | 63.621                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 952            | 65.000                   | 63.619                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 960            | 65.000                   | 63.618                     | -0.110                     | 0.0            | 0.0                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 27                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road, Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.002 US/MH S3 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 8              | 63.456                   | 63.252                     | -0.098                     | 0.0            | 0.3                      | 0.2                |
| 16             | 63.456                   | 63.255                     | -0.098                     | 0.0            | 0.3                      | 0.2                |
| 24             | 63.456                   | 63.258                     | -0.098                     | 0.0            | 0.3                      | 0.2                |
| 32             | 63.456                   | 63.261                     | -0.098                     | 0.0            | 0.3                      | 0.2                |
| 40             | 63.456                   | 63.264                     | -0.098                     | 0.0            | 0.4                      | 0.2                |
| 48             | 63.456                   | 63.267                     | -0.098                     | 0.0            | 0.4                      | 0.2                |
| 56             | 63.457                   | 63.269                     | -0.098                     | 0.0            | 0.4                      | 0.2                |
| 64             | 63.457                   | 63.272                     | -0.097                     | 0.0            | 0.4                      | 0.2                |
| 72             | 63.457                   | 63.274                     | -0.097                     | 0.0            | 0.4                      | 0.2                |
| 80             | 63.457                   | 63.277                     | -0.097                     | 0.0            | 0.4                      | 0.2                |
| 88             | 63.457                   | 63.280                     | -0.097                     | 0.0            | 0.4                      | 0.2                |
| 96             | 63.458                   | 63.282                     | -0.097                     | 0.0            | 0.4                      | 0.3                |
| 104            | 63.458                   | 63.285                     | -0.096                     | 0.0            | 0.4                      | 0.3                |
| 112            | 63.458                   | 63.288                     | -0.096                     | 0.0            | 0.4                      | 0.3                |
| 120            | 63.458                   | 63.291                     | -0.096                     | 0.0            | 0.4                      | 0.3                |
| 128            | 63.459                   | 63.294                     | -0.095                     | 0.0            | 0.4                      | 0.3                |
| 136            | 63.459                   | 63.298                     | -0.095                     | 0.0            | 0.4                      | 0.3                |
| 144            | 63.460                   | 63.302                     | -0.094                     | 0.0            | 0.4                      | 0.4                |
| 152            | 63.461                   | 63.306                     | -0.093                     | 0.0            | 0.4                      | 0.4                |
| 160            | 63.462                   | 63.311                     | -0.092                     | 0.0            | 0.4                      | 0.4                |
| 168            | 63.463                   | 63.317                     | -0.091                     | 0.0            | 0.5                      | 0.5                |
| 176            | 63.465                   | 63.324                     | -0.089                     | 0.0            | 0.5                      | 0.6                |
| 184            | 63.467                   | 63.333                     | -0.087                     | 0.0            | 0.5                      | 0.7                |
| 192            | 63.469                   | 63.345                     | -0.085                     | 0.0            | 0.5                      | 0.8                |
| 200            | 63.472                   | 63.360                     | -0.083                     | 0.0            | 0.5                      | 1.0                |
| 208            | 63.474                   | 63.378                     | -0.080                     | 0.0            | 0.6                      | 1.2                |
| 216            | 63.477                   | 63.399                     | -0.077                     | 0.0            | 0.6                      | 1.4                |
| 224            | 63.480                   | 63.425                     | -0.075                     | 0.0            | 0.6                      | 1.6                |
| 232            | 63.482                   | 63.453                     | -0.072                     | 0.0            | 0.6                      | 1.9                |
| 240            | 63.492                   | 63.485                     | -0.062                     | 0.0            | 0.6                      | 2.1                |
| 248            | 63.523                   | 63.516                     | -0.031                     | 0.0            | 0.4                      | 2.1                |
| 256            | 63.549                   | 63.543                     | -0.005                     | 0.0            | 0.2                      | 1.8                |
| 264            | 63.571                   | 63.566                     | 0.017                      | 0.0            | 0.2                      | 1.6                |
| 272            | 63.589                   | 63.585                     | 0.035                      | 0.0            | 0.1                      | 1.4                |
| 280            | 63.605                   | 63.601                     | 0.051                      | 0.0            | 0.1                      | 1.2                |
| 288            | 63.617                   | 63.614                     | 0.063                      | 0.0            | 0.1                      | 1.0                |
| 296            | 63.627                   | 63.625                     | 0.073                      | 0.0            | 0.1                      | 0.8                |
| 304            | 63.635                   | 63.633                     | 0.081                      | 0.0            | 0.1                      | 0.7                |
| 312            | 63.642                   | 63.640                     | 0.088                      | 0.0            | 0.1                      | 0.6                |
| 320            | 63.647                   | 63.645                     | 0.093                      | 0.0            | 0.1                      | 0.5                |
| 328            | 63.652                   | 63.650                     | 0.098                      | 0.0            | 0.0                      | 0.4                |
| 336            | 63.656                   | 63.654                     | 0.101                      | 0.0            | 0.0                      | 0.4                |
| 344            | 63.659                   | 63.658                     | 0.105                      | 0.0            | 0.0                      | 0.4                |
| 352            | 63.663                   | 63.662                     | 0.109                      | 0.0            | 0.0                      | 0.3                |
| 360            | 63.666                   | 63.665                     | 0.112                      | 0.0            | 0.0                      | 0.3                |
| 368            | 63.669                   | 63.668                     | 0.115                      | 0.0            | 0.0                      | 0.3                |
| 376            | 63.672                   | 63.671                     | 0.118                      | 0.0            | 0.0                      | 0.3                |
| 384            | 63.676                   | 63.675                     | 0.121                      | 0.0            | 0.0                      | 0.3                |
| 392            | 63.679                   | 63.678                     | 0.124                      | 0.0            | 0.0                      | 0.3                |
| 400            | 63.682                   | 63.681                     | 0.127                      | 0.0            | 0.0                      | 0.2                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 28                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road, Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.002 US/MH S3 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 408            | 63.685                   | 63.684                     | 0.130                      | 0.0            | 0.0                      | 0.2                |
| 416            | 63.687                   | 63.687                     | 0.133                      | 0.0            | 0.0                      | 0.2                |
| 424            | 63.690                   | 63.690                     | 0.136                      | 0.0            | 0.0                      | 0.2                |
| 432            | 63.693                   | 63.692                     | 0.139                      | 0.0            | 0.0                      | 0.2                |
| 440            | 63.696                   | 63.695                     | 0.142                      | 0.0            | 0.0                      | 0.2                |
| 448            | 63.699                   | 63.698                     | 0.145                      | 0.0            | 0.0                      | 0.2                |
| 456            | 63.702                   | 63.701                     | 0.148                      | 0.0            | 0.0                      | 0.2                |
| 464            | 63.705                   | 63.704                     | 0.151                      | 0.0            | 0.0                      | 0.2                |
| 472            | 63.708                   | 63.707                     | 0.154                      | 0.0            | 0.0                      | 0.2                |
| 480            | 63.711                   | 63.710                     | 0.157                      | 0.0            | 0.0                      | 0.2                |
| 488            | 63.708                   | 63.708                     | 0.154                      | 0.0            | 0.0                      | 0.0                |
| 496            | 63.704                   | 63.705                     | 0.150                      | 0.0            | 0.0                      | 0.0                |
| 504            | 63.701                   | 63.702                     | 0.147                      | 0.0            | 0.0                      | 0.0                |
| 512            | 63.699                   | 63.699                     | 0.145                      | 0.0            | 0.0                      | 0.0                |
| 520            | 63.697                   | 63.697                     | 0.143                      | 0.0            | 0.0                      | 0.0                |
| 528            | 63.695                   | 63.694                     | 0.141                      | 0.0            | 0.0                      | 0.0                |
| 536            | 63.692                   | 63.692                     | 0.138                      | 0.0            | 0.0                      | 0.0                |
| 544            | 63.690                   | 63.690                     | 0.136                      | 0.0            | 0.0                      | 0.0                |
| 552            | 63.688                   | 63.688                     | 0.134                      | 0.0            | 0.0                      | 0.0                |
| 560            | 63.686                   | 63.686                     | 0.132                      | 0.0            | 0.0                      | 0.0                |
| 568            | 63.684                   | 63.684                     | 0.130                      | 0.0            | 0.0                      | 0.0                |
| 576            | 63.682                   | 63.682                     | 0.128                      | 0.0            | 0.0                      | 0.0                |
| 584            | 63.681                   | 63.681                     | 0.126                      | 0.0            | 0.0                      | 0.0                |
| 592            | 63.679                   | 63.679                     | 0.125                      | 0.0            | 0.0                      | 0.0                |
| 600            | 63.677                   | 63.677                     | 0.123                      | 0.0            | 0.0                      | 0.0                |
| 608            | 63.675                   | 63.676                     | 0.121                      | 0.0            | 0.0                      | 0.0                |
| 616            | 63.674                   | 63.674                     | 0.120                      | 0.0            | 0.0                      | 0.0                |
| 624            | 63.672                   | 63.672                     | 0.118                      | 0.0            | 0.0                      | 0.0                |
| 632            | 63.671                   | 63.671                     | 0.117                      | 0.0            | 0.0                      | 0.0                |
| 640            | 63.669                   | 63.669                     | 0.115                      | 0.0            | 0.0                      | 0.0                |
| 648            | 63.668                   | 63.668                     | 0.113                      | 0.0            | 0.0                      | 0.0                |
| 656            | 63.666                   | 63.666                     | 0.112                      | 0.0            | 0.0                      | 0.0                |
| 664            | 63.665                   | 63.665                     | 0.111                      | 0.0            | 0.0                      | 0.0                |
| 672            | 63.663                   | 63.663                     | 0.109                      | 0.0            | 0.0                      | 0.0                |
| 680            | 63.662                   | 63.662                     | 0.108                      | 0.0            | 0.0                      | 0.0                |
| 688            | 63.660                   | 63.661                     | 0.106                      | 0.0            | 0.0                      | 0.0                |
| 696            | 63.659                   | 63.659                     | 0.105                      | 0.0            | 0.0                      | 0.0                |
| 704            | 63.659                   | 63.658                     | 0.105                      | 0.0            | 0.0                      | 0.0                |
| 712            | 63.657                   | 63.657                     | 0.103                      | 0.0            | 0.0                      | 0.0                |
| 720            | 63.655                   | 63.656                     | 0.101                      | 0.0            | 0.0                      | 0.0                |
| 728            | 63.654                   | 63.654                     | 0.100                      | 0.0            | 0.0                      | 0.0                |
| 736            | 63.653                   | 63.653                     | 0.099                      | 0.0            | 0.0                      | 0.0                |
| 744            | 63.652                   | 63.652                     | 0.098                      | 0.0            | 0.0                      | 0.0                |
| 752            | 63.651                   | 63.650                     | 0.097                      | 0.0            | 0.0                      | 0.0                |
| 760            | 63.648                   | 63.649                     | 0.094                      | 0.0            | 0.0                      | 0.0                |
| 768            | 63.647                   | 63.648                     | 0.093                      | 0.0            | 0.0                      | 0.0                |
| 776            | 63.647                   | 63.647                     | 0.093                      | 0.0            | 0.0                      | 0.0                |
| 784            | 63.645                   | 63.645                     | 0.091                      | 0.0            | 0.0                      | 0.0                |
| 792            | 63.644                   | 63.644                     | 0.090                      | 0.0            | 0.0                      | 0.0                |
| 800            | 63.643                   | 63.643                     | 0.089                      | 0.0            | 0.0                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 29                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.002 US/MH S3 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 808            | 63.642                   | 63.642                     | 0.087                      | 0.0                | 0.0               | 0.0                |
| 816            | 63.641                   | 63.640                     | 0.086                      | 0.0                | 0.0               | 0.0                |
| 824            | 63.639                   | 63.639                     | 0.085                      | 0.0                | 0.0               | 0.0                |
| 832            | 63.637                   | 63.638                     | 0.083                      | 0.0                | 0.0               | 0.0                |
| 840            | 63.637                   | 63.637                     | 0.083                      | 0.0                | 0.0               | 0.0                |
| 848            | 63.635                   | 63.635                     | 0.081                      | 0.0                | 0.0               | 0.0                |
| 856            | 63.634                   | 63.634                     | 0.080                      | 0.0                | 0.0               | 0.0                |
| 864            | 63.633                   | 63.633                     | 0.078                      | 0.0                | 0.0               | 0.0                |
| 872            | 63.632                   | 63.632                     | 0.078                      | 0.0                | 0.0               | 0.0                |
| 880            | 63.630                   | 63.631                     | 0.076                      | 0.0                | 0.0               | 0.0                |
| 888            | 63.629                   | 63.629                     | 0.075                      | 0.0                | 0.0               | 0.0                |
| 896            | 63.628                   | 63.628                     | 0.074                      | 0.0                | 0.0               | 0.0                |
| 904            | 63.627                   | 63.627                     | 0.072                      | 0.0                | 0.0               | 0.0                |
| 912            | 63.626                   | 63.626                     | 0.072                      | 0.0                | 0.0               | 0.0                |
| 920            | 63.624                   | 63.624                     | 0.070                      | 0.0                | 0.0               | 0.0                |
| 928            | 63.622                   | 63.623                     | 0.068                      | 0.0                | 0.0               | 0.0                |
| 936            | 63.622                   | 63.622                     | 0.068                      | 0.0                | 0.0               | 0.0                |
| 944            | 63.621                   | 63.621                     | 0.067                      | 0.0                | 0.0               | 0.0                |
| 952            | 63.619                   | 63.619                     | 0.065                      | 0.0                | 0.0               | 0.0                |
| 960            | 63.618                   | 63.618                     | 0.064                      | 0.0                | 0.0               | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 30                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road, Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.003 US/MH S4 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 8              | 63.252                   | 63.100                     | -0.108                     | 0.0                | 0.0               | 0.0                |
| 16             | 63.255                   | 63.100                     | -0.105                     | 0.0                | 0.0               | 0.0                |
| 24             | 63.258                   | 63.101                     | -0.102                     | 0.0                | 0.0               | 0.0                |
| 32             | 63.261                   | 63.103                     | -0.099                     | 0.0                | 0.1               | 0.0                |
| 40             | 63.264                   | 63.107                     | -0.096                     | 0.0                | 0.1               | 0.0                |
| 48             | 63.267                   | 63.111                     | -0.093                     | 0.0                | 0.2               | 0.0                |
| 56             | 63.269                   | 63.116                     | -0.091                     | 0.0                | 0.2               | 0.0                |
| 64             | 63.272                   | 63.121                     | -0.088                     | 0.0                | 0.2               | 0.1                |
| 72             | 63.274                   | 63.128                     | -0.086                     | 0.0                | 0.2               | 0.1                |
| 80             | 63.277                   | 63.134                     | -0.083                     | 0.0                | 0.3               | 0.1                |
| 88             | 63.280                   | 63.141                     | -0.080                     | 0.0                | 0.3               | 0.1                |
| 96             | 63.282                   | 63.147                     | -0.078                     | 0.0                | 0.3               | 0.1                |
| 104            | 63.285                   | 63.153                     | -0.075                     | 0.0                | 0.3               | 0.1                |
| 112            | 63.288                   | 63.159                     | -0.072                     | 0.0                | 0.3               | 0.1                |
| 120            | 63.291                   | 63.167                     | -0.069                     | 0.0                | 0.3               | 0.1                |
| 128            | 63.294                   | 63.175                     | -0.066                     | 0.0                | 0.3               | 0.1                |
| 136            | 63.298                   | 63.184                     | -0.062                     | 0.0                | 0.3               | 0.1                |
| 144            | 63.302                   | 63.195                     | -0.058                     | 0.0                | 0.3               | 0.1                |
| 152            | 63.306                   | 63.206                     | -0.054                     | 0.0                | 0.3               | 0.1                |
| 160            | 63.311                   | 63.218                     | -0.049                     | 0.0                | 0.3               | 0.1                |
| 168            | 63.317                   | 63.230                     | -0.043                     | 0.0                | 0.3               | 0.1                |
| 176            | 63.324                   | 63.244                     | -0.036                     | 0.0                | 0.3               | 0.2                |
| 184            | 63.333                   | 63.253                     | -0.027                     | 0.0                | 0.3               | 0.1                |
| 192            | 63.345                   | 63.257                     | -0.015                     | 0.0                | 0.3               | 0.1                |
| 200            | 63.360                   | 63.262                     | 0.000                      | 0.0                | 0.3               | 0.1                |
| 208            | 63.378                   | 63.260                     | 0.018                      | 0.0                | 0.2               | 0.0                |
| 216            | 63.399                   | 63.261                     | 0.039                      | 0.0                | 0.3               | 0.1                |
| 224            | 63.425                   | 63.268                     | 0.065                      | 0.0                | 0.3               | 0.1                |
| 232            | 63.453                   | 63.280                     | 0.093                      | 0.0                | 0.3               | 0.2                |
| 240            | 63.485                   | 63.298                     | 0.125                      | 0.0                | 0.3               | 0.2                |
| 248            | 63.516                   | 63.322                     | 0.156                      | 0.0                | 0.4               | 0.2                |
| 256            | 63.543                   | 63.350                     | 0.183                      | 0.0                | 0.4               | 0.3                |
| 264            | 63.566                   | 63.379                     | 0.206                      | 0.0                | 0.4               | 0.3                |
| 272            | 63.585                   | 63.406                     | 0.225                      | 0.0                | 0.4               | 0.2                |
| 280            | 63.601                   | 63.432                     | 0.241                      | 0.0                | 0.1               | 0.2                |
| 288            | 63.614                   | 63.456                     | 0.254                      | 0.0                | 0.0               | 0.2                |
| 296            | 63.625                   | 63.477                     | 0.265                      | 0.0                | 0.0               | 0.2                |
| 304            | 63.633                   | 63.496                     | 0.273                      | 0.0                | 0.0               | 0.2                |
| 312            | 63.640                   | 63.513                     | 0.280                      | 0.0                | 0.0               | 0.2                |
| 320            | 63.645                   | 63.529                     | 0.285                      | 0.0                | 0.0               | 0.2                |
| 328            | 63.650                   | 63.542                     | 0.290                      | 0.0                | 0.0               | 0.2                |
| 336            | 63.654                   | 63.554                     | 0.294                      | 0.0                | 0.0               | 0.2                |
| 344            | 63.658                   | 63.564                     | 0.298                      | 0.0                | 0.0               | 0.1                |
| 352            | 63.662                   | 63.572                     | 0.302                      | 0.0                | 0.0               | 0.1                |
| 360            | 63.665                   | 63.580                     | 0.305                      | 0.0                | 0.0               | 0.1                |
| 368            | 63.668                   | 63.586                     | 0.308                      | 0.0                | 0.0               | 0.1                |
| 376            | 63.671                   | 63.592                     | 0.311                      | 0.0                | 0.0               | 0.1                |
| 384            | 63.675                   | 63.597                     | 0.315                      | 0.0                | 0.0               | 0.1                |
| 392            | 63.678                   | 63.602                     | 0.318                      | 0.0                | 0.0               | 0.1                |
| 400            | 63.681                   | 63.606                     | 0.321                      | 0.0                | 0.0               | 0.1                |



|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 32                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.003 US/MH S4 (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 808            | 63.642                   | 63.590                     | 0.282                      | 0.0                | 0.0               | 0.1                |
| 816            | 63.640                   | 63.589                     | 0.280                      | 0.0                | 0.0               | 0.1                |
| 824            | 63.639                   | 63.588                     | 0.279                      | 0.0                | 0.0               | 0.1                |
| 832            | 63.638                   | 63.587                     | 0.278                      | 0.0                | 0.0               | 0.1                |
| 840            | 63.637                   | 63.586                     | 0.277                      | 0.0                | 0.0               | 0.1                |
| 848            | 63.635                   | 63.584                     | 0.275                      | 0.0                | 0.0               | 0.1                |
| 856            | 63.634                   | 63.583                     | 0.274                      | 0.0                | 0.0               | 0.1                |
| 864            | 63.633                   | 63.582                     | 0.273                      | 0.0                | 0.0               | 0.1                |
| 872            | 63.632                   | 63.581                     | 0.272                      | 0.0                | 0.0               | 0.1                |
| 880            | 63.631                   | 63.580                     | 0.271                      | 0.0                | 0.0               | 0.1                |
| 888            | 63.629                   | 63.578                     | 0.269                      | 0.0                | 0.0               | 0.1                |
| 896            | 63.628                   | 63.577                     | 0.268                      | 0.0                | 0.0               | 0.1                |
| 904            | 63.627                   | 63.576                     | 0.267                      | 0.0                | 0.0               | 0.1                |
| 912            | 63.626                   | 63.575                     | 0.266                      | 0.0                | 0.0               | 0.1                |
| 920            | 63.624                   | 63.574                     | 0.264                      | 0.0                | 0.0               | 0.1                |
| 928            | 63.623                   | 63.572                     | 0.263                      | 0.0                | 0.0               | 0.1                |
| 936            | 63.622                   | 63.571                     | 0.262                      | 0.0                | 0.0               | 0.1                |
| 944            | 63.621                   | 63.570                     | 0.261                      | 0.0                | 0.0               | 0.1                |
| 952            | 63.619                   | 63.569                     | 0.259                      | 0.0                | 0.0               | 0.1                |
| 960            | 63.618                   | 63.568                     | 0.258                      | 0.0                | 0.0               | 0.1                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 33                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road, Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 8              | 63.100                   | 63.096                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 16             | 63.100                   | 63.096                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 24             | 63.101                   | 63.096                     | -0.109                     | 0.0            | 0.0                      | 0.0                |
| 32             | 63.103                   | 63.096                     | -0.107                     | 0.0            | 0.0                      | 0.0                |
| 40             | 63.107                   | 63.096                     | -0.103                     | 0.0            | 0.0                      | 0.0                |
| 48             | 63.111                   | 63.096                     | -0.099                     | 0.0            | 0.0                      | 0.0                |
| 56             | 63.116                   | 63.096                     | -0.094                     | 0.0            | 0.0                      | 0.0                |
| 64             | 63.121                   | 63.096                     | -0.089                     | 0.0            | 0.0                      | 0.0                |
| 72             | 63.128                   | 63.096                     | -0.082                     | 0.0            | 0.0                      | 0.0                |
| 80             | 63.134                   | 63.096                     | -0.076                     | 0.0            | 0.0                      | 0.0                |
| 88             | 63.141                   | 63.096                     | -0.069                     | 0.0            | 0.0                      | 0.0                |
| 96             | 63.147                   | 63.096                     | -0.063                     | 0.0            | 0.0                      | 0.0                |
| 104            | 63.153                   | 63.096                     | -0.057                     | 0.0            | 0.0                      | 0.0                |
| 112            | 63.159                   | 63.096                     | -0.051                     | 0.0            | 0.0                      | 0.0                |
| 120            | 63.167                   | 63.096                     | -0.043                     | 0.0            | 0.0                      | 0.0                |
| 128            | 63.175                   | 63.096                     | -0.035                     | 0.0            | 0.0                      | 0.0                |
| 136            | 63.184                   | 63.096                     | -0.026                     | 0.0            | 0.0                      | 0.0                |
| 144            | 63.195                   | 63.096                     | -0.015                     | 0.0            | 0.0                      | 0.0                |
| 152            | 63.206                   | 63.096                     | -0.004                     | 0.0            | 0.0                      | 0.0                |
| 160            | 63.218                   | 63.096                     | 0.008                      | 0.0            | 0.0                      | 0.0                |
| 168            | 63.230                   | 63.096                     | 0.020                      | 0.0            | 0.0                      | 0.0                |
| 176            | 63.244                   | 63.096                     | 0.034                      | 0.0            | 0.0                      | 0.0                |
| 184            | 63.253                   | 63.096                     | 0.043                      | 0.0            | 0.0                      | 0.0                |
| 192            | 63.257                   | 63.096                     | 0.047                      | 0.0            | 0.0                      | 0.0                |
| 200            | 63.262                   | 63.096                     | 0.052                      | 0.0            | 0.0                      | 0.0                |
| 208            | 63.260                   | 63.096                     | 0.050                      | 0.0            | 0.0                      | 0.0                |
| 216            | 63.261                   | 63.096                     | 0.051                      | 0.0            | 0.0                      | 0.0                |
| 224            | 63.268                   | 63.096                     | 0.058                      | 0.0            | 0.0                      | 0.0                |
| 232            | 63.280                   | 63.096                     | 0.070                      | 0.0            | 0.0                      | 0.0                |
| 240            | 63.298                   | 63.096                     | 0.088                      | 0.0            | 0.0                      | 0.0                |
| 248            | 63.322                   | 63.096                     | 0.112                      | 0.0            | 0.0                      | 0.0                |
| 256            | 63.350                   | 63.096                     | 0.140                      | 0.0            | 0.1                      | 0.0                |
| 264            | 63.379                   | 63.096                     | 0.169                      | 0.0            | 0.1                      | 0.0                |
| 272            | 63.406                   | 63.096                     | 0.196                      | 0.0            | 0.1                      | 0.0                |
| 280            | 63.432                   | 63.096                     | 0.222                      | 0.0            | 0.1                      | 0.0                |
| 288            | 63.456                   | 63.096                     | 0.246                      | 0.0            | 0.1                      | 0.0                |
| 296            | 63.477                   | 63.096                     | 0.267                      | 0.0            | 0.1                      | 0.0                |
| 304            | 63.496                   | 63.096                     | 0.286                      | 0.0            | 0.1                      | 0.0                |
| 312            | 63.513                   | 63.096                     | 0.303                      | 0.0            | 0.1                      | 0.0                |
| 320            | 63.529                   | 63.096                     | 0.319                      | 0.0            | 0.1                      | 0.0                |
| 328            | 63.542                   | 63.096                     | 0.332                      | 0.0            | 0.1                      | 0.0                |
| 336            | 63.554                   | 63.096                     | 0.344                      | 0.0            | 0.1                      | 0.0                |
| 344            | 63.564                   | 63.096                     | 0.354                      | 0.0            | 0.1                      | 0.0                |
| 352            | 63.572                   | 63.096                     | 0.362                      | 0.0            | 0.1                      | 0.0                |
| 360            | 63.580                   | 63.096                     | 0.370                      | 0.0            | 0.1                      | 0.0                |
| 368            | 63.586                   | 63.096                     | 0.376                      | 0.0            | 0.1                      | 0.0                |
| 376            | 63.592                   | 63.096                     | 0.382                      | 0.0            | 0.1                      | 0.0                |
| 384            | 63.597                   | 63.096                     | 0.387                      | 0.0            | 0.1                      | 0.0                |
| 392            | 63.602                   | 63.096                     | 0.392                      | 0.0            | 0.1                      | 0.0                |
| 400            | 63.606                   | 63.096                     | 0.396                      | 0.0            | 0.1                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 34                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 408            | 63.610                   | 63.096                     | 0.400                      | 0.0            | 0.1                      | 0.0                |
| 416            | 63.614                   | 63.096                     | 0.404                      | 0.0            | 0.1                      | 0.0                |
| 424            | 63.618                   | 63.096                     | 0.408                      | 0.0            | 0.1                      | 0.0                |
| 432            | 63.621                   | 63.096                     | 0.411                      | 0.0            | 0.1                      | 0.0                |
| 440            | 63.624                   | 63.096                     | 0.414                      | 0.0            | 0.1                      | 0.0                |
| 448            | 63.627                   | 63.096                     | 0.417                      | 0.0            | 0.1                      | 0.0                |
| 456            | 63.630                   | 63.096                     | 0.420                      | 0.0            | 0.1                      | 0.0                |
| 464            | 63.633                   | 63.096                     | 0.423                      | 0.0            | 0.1                      | 0.0                |
| 472            | 63.636                   | 63.096                     | 0.426                      | 0.0            | 0.1                      | 0.0                |
| 480            | 63.639                   | 63.096                     | 0.429                      | 0.0            | 0.1                      | 0.0                |
| 488            | 63.642                   | 63.096                     | 0.432                      | 0.0            | 0.1                      | 0.0                |
| 496            | 63.643                   | 63.096                     | 0.433                      | 0.0            | 0.1                      | 0.0                |
| 504            | 63.644                   | 63.096                     | 0.434                      | 0.0            | 0.1                      | 0.0                |
| 512            | 63.643                   | 63.096                     | 0.433                      | 0.0            | 0.1                      | 0.0                |
| 520            | 63.643                   | 63.096                     | 0.433                      | 0.0            | 0.1                      | 0.0                |
| 528            | 63.641                   | 63.096                     | 0.431                      | 0.0            | 0.1                      | 0.0                |
| 536            | 63.640                   | 63.096                     | 0.430                      | 0.0            | 0.1                      | 0.0                |
| 544            | 63.639                   | 63.096                     | 0.429                      | 0.0            | 0.1                      | 0.0                |
| 552            | 63.637                   | 63.096                     | 0.427                      | 0.0            | 0.1                      | 0.0                |
| 560            | 63.635                   | 63.096                     | 0.425                      | 0.0            | 0.1                      | 0.0                |
| 568            | 63.633                   | 63.096                     | 0.423                      | 0.0            | 0.1                      | 0.0                |
| 576            | 63.632                   | 63.096                     | 0.422                      | 0.0            | 0.1                      | 0.0                |
| 584            | 63.630                   | 63.096                     | 0.420                      | 0.0            | 0.1                      | 0.0                |
| 592            | 63.628                   | 63.096                     | 0.418                      | 0.0            | 0.1                      | 0.0                |
| 600            | 63.627                   | 63.096                     | 0.417                      | 0.0            | 0.1                      | 0.0                |
| 608            | 63.625                   | 63.096                     | 0.415                      | 0.0            | 0.1                      | 0.0                |
| 616            | 63.623                   | 63.096                     | 0.413                      | 0.0            | 0.1                      | 0.0                |
| 624            | 63.622                   | 63.096                     | 0.412                      | 0.0            | 0.1                      | 0.0                |
| 632            | 63.620                   | 63.096                     | 0.410                      | 0.0            | 0.1                      | 0.0                |
| 640            | 63.618                   | 63.096                     | 0.408                      | 0.0            | 0.1                      | 0.0                |
| 648            | 63.617                   | 63.096                     | 0.407                      | 0.0            | 0.1                      | 0.0                |
| 656            | 63.615                   | 63.096                     | 0.405                      | 0.0            | 0.1                      | 0.0                |
| 664            | 63.614                   | 63.096                     | 0.404                      | 0.0            | 0.1                      | 0.0                |
| 672            | 63.612                   | 63.096                     | 0.402                      | 0.0            | 0.1                      | 0.0                |
| 680            | 63.611                   | 63.096                     | 0.401                      | 0.0            | 0.1                      | 0.0                |
| 688            | 63.609                   | 63.096                     | 0.399                      | 0.0            | 0.1                      | 0.0                |
| 696            | 63.608                   | 63.096                     | 0.398                      | 0.0            | 0.1                      | 0.0                |
| 704            | 63.607                   | 63.096                     | 0.397                      | 0.0            | 0.1                      | 0.0                |
| 712            | 63.606                   | 63.096                     | 0.396                      | 0.0            | 0.1                      | 0.0                |
| 720            | 63.604                   | 63.096                     | 0.394                      | 0.0            | 0.1                      | 0.0                |
| 728            | 63.603                   | 63.096                     | 0.393                      | 0.0            | 0.1                      | 0.0                |
| 736            | 63.602                   | 63.096                     | 0.392                      | 0.0            | 0.1                      | 0.0                |
| 744            | 63.600                   | 63.096                     | 0.390                      | 0.0            | 0.1                      | 0.0                |
| 752            | 63.599                   | 63.096                     | 0.389                      | 0.0            | 0.1                      | 0.0                |
| 760            | 63.597                   | 63.096                     | 0.387                      | 0.0            | 0.1                      | 0.0                |
| 768            | 63.596                   | 63.096                     | 0.386                      | 0.0            | 0.1                      | 0.0                |
| 776            | 63.595                   | 63.096                     | 0.385                      | 0.0            | 0.1                      | 0.0                |
| 784            | 63.594                   | 63.096                     | 0.384                      | 0.0            | 0.1                      | 0.0                |
| 792            | 63.593                   | 63.096                     | 0.383                      | 0.0            | 0.1                      | 0.0                |
| 800            | 63.592                   | 63.096                     | 0.382                      | 0.0            | 0.1                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 35                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)  
480 minute 100 year Summer  
Average Rainfall Intensity 8.895 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 808            | 63.590                   | 63.096                     | 0.380                      | 0.0            | 0.1                      | 0.0                |
| 816            | 63.589                   | 63.096                     | 0.379                      | 0.0            | 0.1                      | 0.0                |
| 824            | 63.588                   | 63.096                     | 0.378                      | 0.0            | 0.1                      | 0.0                |
| 832            | 63.587                   | 63.096                     | 0.377                      | 0.0            | 0.1                      | 0.0                |
| 840            | 63.586                   | 63.096                     | 0.376                      | 0.0            | 0.1                      | 0.0                |
| 848            | 63.584                   | 63.096                     | 0.374                      | 0.0            | 0.1                      | 0.0                |
| 856            | 63.583                   | 63.096                     | 0.373                      | 0.0            | 0.1                      | 0.0                |
| 864            | 63.582                   | 63.096                     | 0.372                      | 0.0            | 0.1                      | 0.0                |
| 872            | 63.581                   | 63.096                     | 0.371                      | 0.0            | 0.1                      | 0.0                |
| 880            | 63.580                   | 63.096                     | 0.370                      | 0.0            | 0.1                      | 0.0                |
| 888            | 63.578                   | 63.096                     | 0.368                      | 0.0            | 0.1                      | 0.0                |
| 896            | 63.577                   | 63.096                     | 0.367                      | 0.0            | 0.1                      | 0.0                |
| 904            | 63.576                   | 63.096                     | 0.366                      | 0.0            | 0.1                      | 0.0                |
| 912            | 63.575                   | 63.096                     | 0.365                      | 0.0            | 0.1                      | 0.0                |
| 920            | 63.574                   | 63.096                     | 0.364                      | 0.0            | 0.1                      | 0.0                |
| 928            | 63.572                   | 63.096                     | 0.362                      | 0.0            | 0.1                      | 0.0                |
| 936            | 63.571                   | 63.096                     | 0.361                      | 0.0            | 0.1                      | 0.0                |
| 944            | 63.570                   | 63.096                     | 0.360                      | 0.0            | 0.1                      | 0.0                |
| 952            | 63.569                   | 63.096                     | 0.359                      | 0.0            | 0.1                      | 0.0                |
| 960            | 63.568                   | 63.096                     | 0.358                      | 0.0            | 0.1                      | 0.0                |