







| WSP Group Ltd                   |           |              |               |                      |        |                           |               | Page 4                                                                              |                           |               |            |
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| Date 03/05/2023 16:44           |           |              |               | Designed by UKJEB008 |        |                           |               |                                                                                     |                           |               |            |
| File 230427 Port Street w ve... |           |              |               | Checked by           |        |                           |               |                                                                                     |                           |               |            |
| XP Solutions                    |           |              |               |                      |        |                           |               | Network 2019.1                                                                      |                           |               |            |
| 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) |
| PPIC S8                         | 48.050    | 0.525        | Open Manhole  | 300                  | 2.000  | 47.525                    | 100           |                                                                                     |                           |               |            |
| PPIC S7                         | 48.000    | 0.669        | Open Manhole  | 300                  | 2.001  | 47.331                    | 100           | 2.000                                                                               | 47.331                    | 100           |            |
| PPICS6                          | 47.900    | 0.675        | Open Manhole  | 300                  | 2.002  | 47.225                    | 100           | 2.001                                                                               | 47.225                    | 100           |            |
| PPIC S3                         | 47.900    | 0.450        | Open Manhole  | 300                  | 3.000  | 47.450                    | 100           |                                                                                     |                           |               |            |
| PPIC S4                         | 47.876    | 0.625        | Open Manhole  | 300                  | 3.001  | 47.251                    | 100           | 3.000                                                                               | 47.251                    | 100           |            |
| PPIC S5                         | 47.867    | 0.786        | Open Manhole  | 300                  | 3.002  | 47.081                    | 100           | 3.001                                                                               | 47.081                    | 100           |            |
| MHS2                            | 47.832    | 0.919        | Open Manhole  | 900                  | 2.003  | 46.913                    | 150           | 2.002                                                                               | 46.963                    | 100           |            |
|                                 |           |              |               |                      |        |                           |               | 3.002                                                                               | 46.964                    | 100           |            |
| Podium                          | 49.500    | 0.450        | Junction      |                      | 4.000  | 49.050                    | 100           |                                                                                     |                           |               |            |
| PPIC S1                         | 49.620    | 0.600        | Open Manhole  | 450                  | 5.000  | 49.020                    | 100           |                                                                                     |                           |               |            |
| Podium                          | 49.500    | 0.450        | Junction      |                      | 6.000  | 49.050                    | 100           |                                                                                     |                           |               |            |
| MH S1                           | 49.529    | 0.643        | Open Manhole  | 900                  | 4.001  | 48.886                    | 100           | 4.000                                                                               | 48.887                    | 100           |            |
|                                 |           |              |               |                      |        |                           |               | 5.000                                                                               | 48.887                    | 100           |            |
|                                 |           |              |               |                      |        |                           |               | 6.000                                                                               | 48.887                    | 100           |            |
| Amenity                         | 49.500    | 0.450        | Open Manhole  | 1200                 | 7.000  | 49.050                    | 100           |                                                                                     |                           |               |            |
| PPIC S2                         | 48.913    | 0.450        | Open Manhole  | 1200                 | 4.002  | 48.615                    | 100           | 4.001                                                                               | 48.615                    | 100           |            |
|                                 |           |              |               |                      |        |                           |               | 7.000                                                                               | 48.463                    | 100           |            |
| PPIC S9                         | 48.150    | 1.362        | Open Manhole  | 450                  | 2.004  | 46.790                    | 150           | 2.003                                                                               | 46.788                    | 150           |            |
|                                 |           |              |               |                      |        |                           |               | 4.002                                                                               | 46.790                    | 100           |            |
| PPIC S10                        | 48.600    | 2.072        | Open Manhole  | 450                  | 2.005  | 46.528                    | 150           | 2.004                                                                               | 46.528                    | 150           |            |
| PS Tank                         | 48.300    | 2.000        | Open Manhole  | 1200                 | 8.000  | 46.300                    | 300           |                                                                                     |                           |               |            |
| MH S5                           | 49.200    | 2.932        | Open Manhole  | 1200                 | 8.001  | 46.268                    | 150           | 8.000                                                                               | 46.268                    | 300           |            |
| MH S3                           | 49.250    | 3.082        | Open Manhole  | 1200                 | 2.006  | 46.169                    | 150           | 2.005                                                                               | 46.168                    | 150           |            |
|                                 |           |              |               |                      |        |                           |               | 8.001                                                                               | 46.168                    | 150           |            |
| MH S4                           | 49.375    | 3.320        | Open Manhole  | 1200                 | 2.007  | 46.055                    | 150           | 2.006                                                                               | 46.055                    | 150           |            |
| Ramp ACO                        | 46.250    | 0.400        | Open Manhole  | 1200                 | 9.000  | 45.850                    | 100           |                                                                                     |                           |               |            |
| PPIC S11                        | 46.250    | 0.500        | Open Manhole  | 1200                 | 9.001  | 45.750                    | 100           | 9.000                                                                               | 45.750                    | 100           |            |
| Pump                            | 46.250    | 1.200        | Open Manhole  | 1200                 | 9.002  | 45.050                    | 100           | 9.001                                                                               | 45.614                    | 100           |            |
| MHC1                            | 49.500    | 4.870        | Open Manhole  | 1200                 | 2.008  | 45.935                    | 300           | 2.007                                                                               | 46.034                    | 150           |            |
|                                 |           |              |               |                      |        |                           |               | 9.002                                                                               | 44.630                    | 100           |            |
| UU MH8409                       | 49.200    | 3.600        | Open Manhole  | 0                    |        | OUTFALL                   |               | 2.008                                                                               | 45.600                    | 300           |            |
| BIN ACO                         | 50.200    | 0.350        | Open Manhole  | 1200                 | 10.000 | 49.850                    | 100           |                                                                                     |                           |               |            |
| GAS Tank                        | 49.000    | 2.000        | Open Manhole  | 1200                 | 11.000 | 47.000                    | 300           |                                                                                     |                           |               |            |
| MH S6                           | 50.200    | 3.224        | Open Manhole  | 1200                 | 10.001 | 46.976                    | 150           | 10.000                                                                              | 47.026                    | 100           |            |
|                                 |           |              |               |                      |        |                           |               | 11.000                                                                              | 46.976                    | 300           |            |
|                                 | 49.890    | 3.101        | Open Manhole  | 0                    |        | OUTFALL                   |               | 10.001                                                                              | 46.789                    | 150           |            |
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Network 2019.1

| MH       | Manhole    | Manhole    | Intersection | Intersection | Manhole  | Layout  |
|----------|------------|------------|--------------|--------------|----------|---------|
| Name     | Easting    | Northing   | Easting      | Northing     | Access   | (North) |
|          | (m)        | (m)        | (m)          | (m)          |          |         |
| PPIC S8  | 384837.990 | 398395.341 | 384837.990   | 398395.341   | Required |         |
| PPIC S7  | 384846.630 | 398387.499 | 384846.630   | 398387.499   | Required |         |
| PPICS6   | 384849.092 | 398389.660 | 384849.092   | 398389.660   | Required |         |
| PPIC S3  | 384872.460 | 398415.304 | 384872.460   | 398415.304   | Required |         |
| PPIC S4  | 384864.419 | 398406.450 | 384864.419   | 398406.450   | Required |         |
| PPIC S5  | 384857.409 | 398399.013 | 384857.409   | 398399.013   | Required |         |
| MHS2     | 384852.813 | 398393.711 | 384852.813   | 398393.711   | Required |         |
| Podium   | 384868.072 | 398434.421 |              |              | No Entry |         |
| PPIC S1  | 384877.924 | 398423.161 | 384877.924   | 398423.161   | Required |         |
| Podium   | 384878.587 | 398434.338 |              |              | No Entry |         |
| MH S1    | 384872.294 | 398428.791 | 384872.294   | 398428.791   | Required |         |
| Amenity  | 384858.826 | 398423.396 | 384858.826   | 398423.396   | Required |         |
| PPIC S2  | 384862.459 | 398422.370 | 384862.459   | 398422.370   | Required |         |
| PPIC S9  | 384843.619 | 398402.082 | 384843.619   | 398402.082   | Required |         |
| PPIC S10 | 384817.532 | 398404.171 | 384817.532   | 398404.171   | Required |         |



|                                 |                      |                                                                                     |
|---------------------------------|----------------------|-------------------------------------------------------------------------------------|
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| XP Solutions                    |                      | Network 2019.1                                                                      |

  

Free Flowing Outfall Details for Storm

| Outfall<br>Pipe Number | Outfall C. Level<br>Name (m) | I. Level<br>(m) | Min<br>I. Level<br>(m) | D,L<br>(mm) | W<br>(mm) |
|------------------------|------------------------------|-----------------|------------------------|-------------|-----------|
| 10.001                 | 49.890                       | 46.789          | 0.000                  | 0           | 0         |

  

Simulation Criteria for Storm

|                                 |       |                                     |       |
|---------------------------------|-------|-------------------------------------|-------|
| Volumetric Runoff Coeff         | 0.750 | Additional Flow - % of Total Flow   | 0.000 |
| Areal Reduction Factor          | 1.000 | MADD Factor * 10m³/ha Storage       | 2.000 |
| Hot Start (mins)                | 0     | Inlet Coefficient                   | 0.800 |
| Hot Start Level (mm)            | 0     | Flow per Person per Day (l/per/day) | 0.000 |
| Manhole Headloss Coeff (Global) | 0.500 | Run Time (mins)                     | 60    |
| Foul Sewage per hectare (l/s)   | 0.000 | Output Interval (mins)              | 1     |
| Number of Input Hydrographs     | 0     | Number of Storage Structures        | 7     |
| Number of Online Controls       | 5     | Number of Time/Area Diagrams        | 0     |
| Number of Offline Controls      | 0     | Number of Real Time Controls        | 0     |

  

Synthetic Rainfall Details

|                       |                   |                       |        |
|-----------------------|-------------------|-----------------------|--------|
| Rainfall Model        | FSR               | Profile Type          | Summer |
| Return Period (years) | 2                 | Cv (Summer)           | 0.750  |
| Region                | England and Wales | Cv (Winter)           | 0.840  |
| M5-60 (mm)            | 18.000            | Storm Duration (mins) | 30     |
| Ratio R               | 0.355             |                       |        |

  

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| WSP Group Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                      |               | Page 8                                                                              |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
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| Date 03/05/2023 16:44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               | Designed by UKJEB008 |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| File 230427 Port Street w ve...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               | Checked by           |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| XP Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               | Network 2019.1       |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| <div>Online Controls for Storm</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| <div>Orifice Manhole: MHS2, DS/PN: 2.003, Volume (m³): 0.7</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| Diameter (m) 0.033 Discharge Coefficient 0.600 Invert Level (m) 46.913                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| <div>Orifice Manhole: MH S1, DS/PN: 4.001, Volume (m³): 0.6</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| Diameter (m) 0.039 Discharge Coefficient 0.600 Invert Level (m) 48.886                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| <div>ACO Q-Brake Manhole: MH S5, DS/PN: 8.001, Volume (m³): 3.8</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| Design Head (m) 2.000 Diameter (mm) 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| Design Flow (l/s) 3.0 Invert Level (m) 46.268                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| <table><tr><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td></tr><tr><td>0.100</td><td>1.8</td><td>1.200</td><td>2.3</td><td>3.000</td><td>3.7</td><td>7.000</td><td>5.6</td></tr><tr><td>0.200</td><td>2.5</td><td>1.400</td><td>2.5</td><td>3.500</td><td>3.9</td><td>7.500</td><td>5.8</td></tr><tr><td>0.300</td><td>3.0</td><td>1.600</td><td>2.7</td><td>4.000</td><td>4.2</td><td>8.000</td><td>6.0</td></tr><tr><td>0.400</td><td>2.9</td><td>1.800</td><td>2.8</td><td>4.500</td><td>4.5</td><td>8.500</td><td>6.2</td></tr><tr><td>0.500</td><td>2.5</td><td>2.000</td><td>3.0</td><td>5.000</td><td>4.7</td><td>9.000</td><td>6.3</td></tr><tr><td>0.600</td><td>1.8</td><td>2.200</td><td>3.1</td><td>5.500</td><td>4.9</td><td>9.500</td><td>6.5</td></tr><tr><td>0.800</td><td>1.9</td><td>2.400</td><td>3.3</td><td>6.000</td><td>5.2</td><td></td><td></td></tr><tr><td>1.000</td><td>2.1</td><td>2.600</td><td>3.4</td><td>6.500</td><td>5.4</td><td></td><td></td></tr></table>                                             |               |                      |               |                                                                                     |               | Depth (m) | Flow (l/s)    | Depth (m) | Flow (l/s)    | Depth (m) | Flow (l/s)    | Depth (m) | Flow (l/s) | 0.100 | 1.8    | 1.200 | 2.3    | 3.000 | 3.7    | 7.000 | 5.6    | 0.200 | 2.5    | 1.400 | 2.5    | 3.500 | 3.9    | 7.500 | 5.8    | 0.300 | 3.0    | 1.600 | 2.7    | 4.000 | 4.2    | 8.000 | 6.0    | 0.400 | 2.9    | 1.800 | 2.8    | 4.500 | 4.5    | 8.500 | 6.2    | 0.500 | 2.5    | 2.000 | 3.0    | 5.000 | 4.7    | 9.000 | 6.3    | 0.600 | 1.8    | 2.200 | 3.1    | 5.500 | 4.9    | 9.500 | 6.5    | 0.800 | 1.9    | 2.400 | 3.3    | 6.000 | 5.2    |       |        | 1.000 | 2.1    | 2.600 | 3.4 | 6.500 | 5.4 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Flow (l/s)    | Depth (m)            | Flow (l/s)    | Depth (m)                                                                           | Flow (l/s)    | Depth (m) | Flow (l/s)    |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.8           | 1.200                | 2.3           | 3.000                                                                               | 3.7           | 7.000     | 5.6           |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.5           | 1.400                | 2.5           | 3.500                                                                               | 3.9           | 7.500     | 5.8           |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.0           | 1.600                | 2.7           | 4.000                                                                               | 4.2           | 8.000     | 6.0           |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.9           | 1.800                | 2.8           | 4.500                                                                               | 4.5           | 8.500     | 6.2           |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.5           | 2.000                | 3.0           | 5.000                                                                               | 4.7           | 9.000     | 6.3           |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.8           | 2.200                | 3.1           | 5.500                                                                               | 4.9           | 9.500     | 6.5           |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.9           | 2.400                | 3.3           | 6.000                                                                               | 5.2           |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.1           | 2.600                | 3.4           | 6.500                                                                               | 5.4           |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| <div>Level Controlled Pump Manhole: Pump, DS/PN: 9.002, Volume (m³): 1.4</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| Invert Level (m) 45.050 Cut In Height (m) 0.700 Cut Out Height (m) 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| <table><tr><td>Depth (m)</td><td>Outflow (l/s)</td><td>Depth (m)</td><td>Outflow (l/s)</td><td>Depth (m)</td><td>Outflow (l/s)</td></tr><tr><td>0.100</td><td>0.0000</td><td>1.100</td><td>3.0000</td><td>2.100</td><td>3.0000</td></tr><tr><td>0.200</td><td>0.0000</td><td>1.200</td><td>3.0000</td><td>2.200</td><td>3.0000</td></tr><tr><td>0.300</td><td>3.0000</td><td>1.300</td><td>3.0000</td><td>2.300</td><td>3.0000</td></tr><tr><td>0.400</td><td>3.0000</td><td>1.400</td><td>3.0000</td><td>2.400</td><td>3.0000</td></tr><tr><td>0.500</td><td>3.0000</td><td>1.500</td><td>3.0000</td><td>2.500</td><td>3.0000</td></tr><tr><td>0.600</td><td>3.0000</td><td>1.600</td><td>3.0000</td><td>2.600</td><td>3.0000</td></tr><tr><td>0.700</td><td>3.0000</td><td>1.700</td><td>3.0000</td><td>2.700</td><td>3.0000</td></tr><tr><td>0.800</td><td>3.0000</td><td>1.800</td><td>3.0000</td><td>2.800</td><td>3.0000</td></tr><tr><td>0.900</td><td>3.0000</td><td>1.900</td><td>3.0000</td><td>2.900</td><td>3.0000</td></tr><tr><td>1.000</td><td>3.0000</td><td>2.000</td><td>3.0000</td><td>3.000</td><td>3.0000</td></tr></table> |               |                      |               |                                                                                     |               | Depth (m) | Outflow (l/s) | Depth (m) | Outflow (l/s) | Depth (m) | Outflow (l/s) | 0.100     | 0.0000     | 1.100 | 3.0000 | 2.100 | 3.0000 | 0.200 | 0.0000 | 1.200 | 3.0000 | 2.200 | 3.0000 | 0.300 | 3.0000 | 1.300 | 3.0000 | 2.300 | 3.0000 | 0.400 | 3.0000 | 1.400 | 3.0000 | 2.400 | 3.0000 | 0.500 | 3.0000 | 1.500 | 3.0000 | 2.500 | 3.0000 | 0.600 | 3.0000 | 1.600 | 3.0000 | 2.600 | 3.0000 | 0.700 | 3.0000 | 1.700 | 3.0000 | 2.700 | 3.0000 | 0.800 | 3.0000 | 1.800 | 3.0000 | 2.800 | 3.0000 | 0.900 | 3.0000 | 1.900 | 3.0000 | 2.900 | 3.0000 | 1.000 | 3.0000 | 2.000 | 3.0000 | 3.000 | 3.0000 |       |     |       |     |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Outflow (l/s) | Depth (m)            | Outflow (l/s) | Depth (m)                                                                           | Outflow (l/s) |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0000        | 1.100                | 3.0000        | 2.100                                                                               | 3.0000        |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0000        | 1.200                | 3.0000        | 2.200                                                                               | 3.0000        |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.0000        | 1.300                | 3.0000        | 2.300                                                                               | 3.0000        |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.0000        | 1.400                | 3.0000        | 2.400                                                                               | 3.0000        |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.0000        | 1.500                | 3.0000        | 2.500                                                                               | 3.0000        |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.0000        | 1.600                | 3.0000        | 2.600                                                                               | 3.0000        |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.0000        | 1.700                | 3.0000        | 2.700                                                                               | 3.0000        |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.0000        | 1.800                | 3.0000        | 2.800                                                                               | 3.0000        |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.0000        | 1.900                | 3.0000        | 2.900                                                                               | 3.0000        |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.0000        | 2.000                | 3.0000        | 3.000                                                                               | 3.0000        |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| <div>ACO Q-Brake Manhole: MH S6, DS/PN: 10.001, Volume (m³): 3.8</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| Design Head (m) 1.900 Diameter (mm) 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| Design Flow (l/s) 2.0 Invert Level (m) 46.976                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                      |               |                                                                                     |               |           |               |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| <table><tr><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td></tr><tr><td>0.100</td><td>1.2</td><td>0.300</td><td>2.0</td><td>0.500</td><td>1.3</td><td>0.800</td><td>1.3</td></tr><tr><td>0.200</td><td>1.8</td><td>0.400</td><td>1.9</td><td>0.600</td><td>1.1</td><td>1.000</td><td>1.4</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                      |               |                                                                                     |               | Depth (m) | Flow (l/s)    | Depth (m) | Flow (l/s)    | Depth (m) | Flow (l/s)    | Depth (m) | Flow (l/s) | 0.100 | 1.2    | 0.300 | 2.0    | 0.500 | 1.3    | 0.800 | 1.3    | 0.200 | 1.8    | 0.400 | 1.9    | 0.600 | 1.1    | 1.000 | 1.4    |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Flow (l/s)    | Depth (m)            | Flow (l/s)    | Depth (m)                                                                           | Flow (l/s)    | Depth (m) | Flow (l/s)    |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.2           | 0.300                | 2.0           | 0.500                                                                               | 1.3           | 0.800     | 1.3           |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.8           | 0.400                | 1.9           | 0.600                                                                               | 1.1           | 1.000     | 1.4           |           |               |           |               |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |     |       |     |  |  |
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|                                                                             |                      |                                                                                     |
|-----------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|
| WSP Group Ltd                                                               |                      | Page 10                                                                             |
| .<br>.<br>.                                                                 |                      |  |
| Date 03/05/2023 16:44                                                       | Designed by UKJEB008 |                                                                                     |
| File 230427 Port Street w ve...                                             | Checked by           |                                                                                     |
| XP Solutions                                                                |                      | Network 2019.1                                                                      |
| <p align="center"><u>Storage Structures for Storm</u></p>                   |                      |                                                                                     |
| <p align="center"><u>Porous Car Park Manhole: PPIC S8, DS/PN: 2.000</u></p> |                      |                                                                                     |
| Infiltration Coefficient Base (m/hr)                                        | 0.00000              | Width (m) 20.0                                                                      |
| Membrane Percolation (mm/hr)                                                | 1000                 | Length (m) 4.2                                                                      |
| Max Percolation (l/s)                                                       | 23.3                 | Slope (1:X) 400.0                                                                   |
| Safety Factor                                                               | 2.0                  | Depression Storage (mm) 5                                                           |
| Porosity                                                                    | 0.30                 | Evaporation (mm/day) 3                                                              |
| Invert Level (m)                                                            | 47.525               | Cap Volume Depth (m) 0.320                                                          |
| <p align="center"><u>Porous Car Park Manhole: PPIC S3, DS/PN: 3.000</u></p> |                      |                                                                                     |
| Infiltration Coefficient Base (m/hr)                                        | 0.00000              | Width (m) 20.0                                                                      |
| Membrane Percolation (mm/hr)                                                | 1000                 | Length (m) 4.2                                                                      |
| Max Percolation (l/s)                                                       | 23.3                 | Slope (1:X) 400.0                                                                   |
| Safety Factor                                                               | 2.0                  | Depression Storage (mm) 5                                                           |
| Porosity                                                                    | 0.30                 | Evaporation (mm/day) 3                                                              |
| Invert Level (m)                                                            | 47.500               | Cap Volume Depth (m) 0.320                                                          |
| <p align="center"><u>Porous Car Park Manhole: Podium, DS/PN: 4.000</u></p>  |                      |                                                                                     |
| Infiltration Coefficient Base (m/hr)                                        | 0.00000              | Width (m) 30.0                                                                      |
| Membrane Percolation (mm/hr)                                                | 1000                 | Length (m) 22.2                                                                     |
| Max Percolation (l/s)                                                       | 185.0                | Slope (1:X) 400.0                                                                   |
| Safety Factor                                                               | 2.0                  | Depression Storage (mm) 5                                                           |
| Porosity                                                                    | 0.30                 | Evaporation (mm/day) 3                                                              |
| Invert Level (m)                                                            | 49.050               | Cap Volume Depth (m) 0.271                                                          |
| <p align="center"><u>Porous Car Park Manhole: Podium, DS/PN: 6.000</u></p>  |                      |                                                                                     |
| Infiltration Coefficient Base (m/hr)                                        | 0.00000              | Width (m) 22.0                                                                      |
| Membrane Percolation (mm/hr)                                                | 1000                 | Length (m) 15.0                                                                     |
| Max Percolation (l/s)                                                       | 91.7                 | Slope (1:X) 400.0                                                                   |
| Safety Factor                                                               | 2.0                  | Depression Storage (mm) 5                                                           |
| Porosity                                                                    | 0.30                 | Evaporation (mm/day) 3                                                              |
| Invert Level (m)                                                            | 49.050               | Cap Volume Depth (m) 0.271                                                          |
| <p align="center"><u>Porous Car Park Manhole: Amenity, DS/PN: 7.000</u></p> |                      |                                                                                     |
| Infiltration Coefficient Base (m/hr)                                        | 0.00000              | Width (m) 25.0                                                                      |
| Membrane Percolation (mm/hr)                                                | 1000                 | Length (m) 3.5                                                                      |
| Max Percolation (l/s)                                                       | 24.3                 | Slope (1:X) 400.0                                                                   |
| Safety Factor                                                               | 2.0                  | Depression Storage (mm) 5                                                           |
| Porosity                                                                    | 0.30                 | Evaporation (mm/day) 3                                                              |
| Invert Level (m)                                                            | 49.050               | Cap Volume Depth (m) 0.320                                                          |
| <p align="center"><u>Tank or Pond Manhole: PS Tank, DS/PN: 8.000</u></p>    |                      |                                                                                     |
| <p align="center">Invert Level (m) 46.300</p>                               |                      |                                                                                     |
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