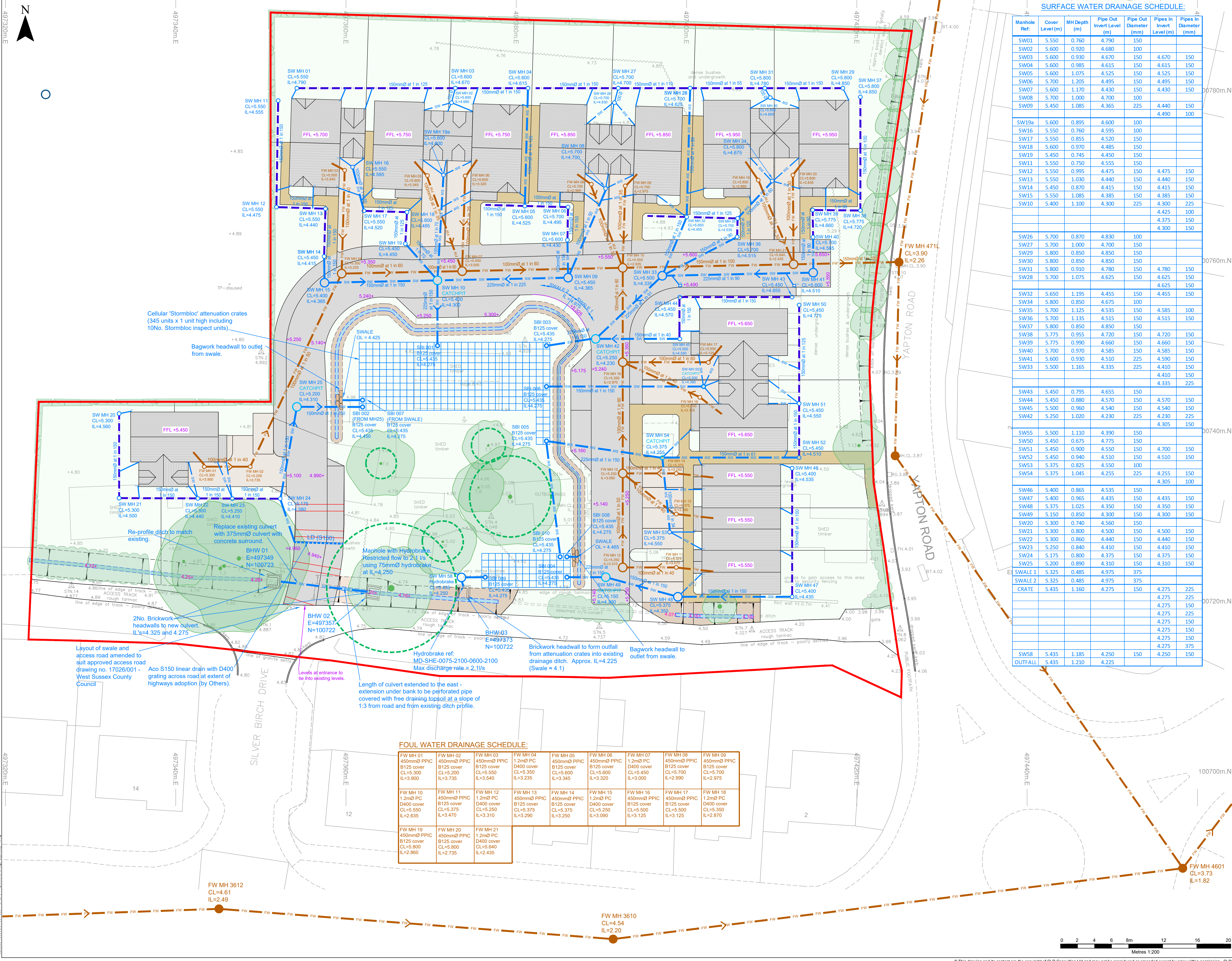




| SURFACE WATER DRAINAGE SCHEDULE: |                 |              |                           |                        |                           |                        |
|----------------------------------|-----------------|--------------|---------------------------|------------------------|---------------------------|------------------------|
| Manhole Ref:                     | Cover Level (m) | MH Depth (m) | Pipe Out Invert Level (m) | Pipe Out Diameter (mm) | Pipes In Invert Level (m) | Pipes In Diameter (mm) |
| SW01                             | 5.550           | 0.760        | 4.790                     | 150                    |                           |                        |
| SW02                             | 5.600           | 0.920        | 4.680                     | 100                    |                           |                        |
| SW03                             | 5.600           | 0.930        | 4.670                     | 150                    | 4.670                     | 150                    |
| SW04                             | 5.600           | 0.985        | 4.615                     | 150                    | 4.615                     | 150                    |
| SW05                             | 5.600           | 1.075        | 4.525                     | 150                    | 4.525                     | 150                    |
| SW06                             | 5.700           | 1.205        | 4.495                     | 150                    | 4.495                     | 150                    |
| SW07                             | 5.600           | 1.170        | 4.430                     | 150                    | 4.430                     | 150                    |
| SW08                             | 5.700           | 1.000        | 4.700                     | 100                    |                           |                        |
| SW09                             | 5.450           | 1.085        | 4.365                     | 225                    | 4.440                     | 150                    |
| SW19a                            | 5.600           | 0.895        | 4.700                     | 100                    |                           |                        |
| SW16                             | 5.550           | 0.760        | 4.790                     | 100                    |                           |                        |
| SW17                             | 5.550           | 0.855        | 4.645                     | 100                    |                           |                        |
| SW18                             | 5.600           | 0.970        | 4.630                     | 150                    |                           |                        |
| SW19                             | 5.450           | 0.745        | 4.705                     | 150                    |                           |                        |
| SW11                             | 5.550           | 0.750        | 4.800                     | 150                    |                           |                        |
| SW12                             | 5.550           | 0.995        | 4.555                     | 150                    | 4.475                     | 150                    |
| SW13                             | 5.550           | 1.030        | 4.520                     | 150                    | 4.440                     | 150                    |
| SW14                             | 5.450           | 0.870        | 4.580                     | 150                    | 4.415                     | 150                    |
| SW15                             | 5.550           | 1.085        | 4.385                     | 150                    | 4.385                     | 150                    |
| SW10                             | 5.400           | 1.100        | 4.300                     | 225                    | 4.300                     | 225                    |
| SW26                             | 5.700           | 0.870        | 4.830                     | 100                    |                           |                        |
| SW27                             | 5.700           | 1.000        | 4.700                     | 150                    |                           |                        |
| SW29                             | 5.800           | 0.850        | 4.850                     | 150                    |                           |                        |
| SW30                             | 5.800           | 0.850        | 4.850                     | 150                    |                           |                        |
| SW31                             | 5.800           | 0.910        | 4.780                     | 150                    | 4.780                     | 150                    |
| SW28                             | 5.700           | 1.075        | 4.625                     | 150                    | 4.625                     | 150                    |
| SW32                             | 5.650           | 1.195        | 4.455                     | 150                    | 4.455                     | 150                    |
| SW34                             | 5.800           | 0.850        | 4.675                     | 100                    |                           |                        |
| SW35                             | 5.700           | 1.125        | 4.535                     | 150                    | 4.585                     | 100                    |
| SW36                             | 5.700           | 1.135        | 4.515                     | 150                    | 4.515                     | 150                    |
| SW37                             | 5.800           | 0.850        | 4.850                     | 150                    |                           |                        |
| SW38                             | 5.775           | 0.955        | 4.720                     | 150                    | 4.720                     | 150                    |
| SW39                             | 5.775           | 0.990        | 4.660                     | 150                    | 4.660                     | 150                    |
| SW40                             | 5.700           | 0.970        | 4.585                     | 150                    | 4.585                     | 150                    |
| SW41                             | 5.600           | 0.930        | 4.510                     | 225                    | 4.590                     | 150                    |
| SW33                             | 5.500           | 1.165        | 4.335                     | 225                    | 4.410                     | 150                    |
| SW43                             | 5.450           | 0.795        | 4.655                     | 150                    |                           |                        |
| SW44                             | 5.450           | 0.880        | 4.570                     | 150                    | 4.570                     | 150                    |
| SW45                             | 5.500           | 0.960        | 4.540                     | 150                    | 4.540                     | 150                    |
| SW42                             | 5.250           | 1.020        | 4.230                     | 225                    | 4.230                     | 225                    |
| SW55                             | 5.500           | 1.110        | 4.390                     | 150                    |                           |                        |
| SW50                             | 5.450           | 0.675        | 4.775                     | 150                    |                           |                        |
| SW51                             | 5.450           | 0.900        | 4.550                     | 150                    | 4.700                     | 150                    |
| SW52                             | 5.450           | 0.940        | 4.510                     | 150                    | 4.510                     | 150                    |
| SW53                             | 5.375           | 0.825        | 4.550                     | 100                    |                           |                        |
| SW54                             | 5.375           | 1.045        | 4.255                     | 225                    | 4.255                     | 150                    |
| SW46                             | 5.400           | 0.865        | 4.535                     | 150                    |                           |                        |
| SW47                             | 5.400           | 0.965        | 4.435                     | 150                    | 4.435                     | 150                    |
| SW48                             | 5.375           | 1.025        | 4.350                     | 150                    | 4.350                     | 150                    |
| SW49                             | 5.150           | 0.850        | 4.300                     | 150                    | 4.300                     | 150                    |
| SW20                             | 5.300           | 0.740        | 4.560                     | 150                    |                           |                        |
| SW21                             | 5.300           | 0.800        | 4.500                     | 150                    | 4.500                     | 150                    |
| SW22                             | 5.300           | 0.860        | 4.440                     | 150                    | 4.440                     | 150                    |
| SW23                             | 5.250           | 0.840        | 4.410                     | 150                    | 4.410                     | 150                    |
| SW24                             | 5.175           | 0.800        | 4.375                     | 150                    | 4.375                     | 150                    |
| SW25                             | 5.200           | 0.890        | 4.310                     | 150                    | 4.310                     | 150                    |
| SWALE 1                          | 5.325           | 0.485        | 4.975                     | 375                    |                           |                        |
| SWALE 2                          | 5.325           | 0.485        | 4.975                     | 375                    |                           |                        |
| CRATE                            | 5.435           | 1.160        | 4.275                     | 150                    | 4.275                     | 225                    |
| SW58                             | 5.435           | 1.185        | 4.250                     | 150                    | 4.250                     | 150                    |
| OUTFALL                          | 5.435           | 1.210        | 4.225                     |                        |                           |                        |

| FOUL WATER DRAINAGE SCHEDULE:                                 |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |
|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| FW MH 01<br>450mmØ PPIC<br>B125 cover<br>CL=5.300<br>IL=3.900 | FW MH 02<br>450mmØ PPIC<br>B125 cover<br>CL=5.200<br>IL=3.735 | FW MH 03<br>450mmØ PPIC<br>B125 cover<br>CL=5.550<br>IL=3.540 | FW MH 04<br>1.2mØ PC<br>D400 cover<br>CL=5.600<br>IL=3.235    | FW MH 05<br>450mmØ PPIC<br>B125 cover<br>CL=5.600<br>IL=3.345 | FW MH 06<br>450mmØ PPIC<br>B125 cover<br>CL=5.600<br>IL=3.320 | FW MH 07<br>1.2mØ PC<br>D400 cover<br>CL=5.450<br>IL=3.000    | FW MH 08<br>450mmØ PPIC<br>B125 cover<br>CL=5.700<br>IL=2.990 | FW MH 09<br>450mmØ PPIC<br>B125 cover<br>CL=5.700<br>IL=2.975 |
| FW MH 10<br>1.2mØ PC<br>D400 cover<br>CL=5.550<br>IL=2.635    | FW MH 11<br>450mmØ PPIC<br>B125 cover<br>CL=5.375<br>IL=3.470 | FW MH 12<br>1.2mØ PC<br>D400 cover<br>CL=5.250<br>IL=3.310    | FW MH 13<br>450mmØ PPIC<br>B125 cover<br>CL=5.375<br>IL=3.290 | FW MH 14<br>450mmØ PPIC<br>B125 cover<br>CL=5.375<br>IL=3.250 | FW MH 15<br>1.2mØ PC<br>D400 cover<br>CL=5.250<br>IL=3.090    | FW MH 16<br>450mmØ PPIC<br>B125 cover<br>CL=5.500<br>IL=3.125 | FW MH 17<br>450mmØ PPIC<br>B125 cover<br>CL=5.500<br>IL=3.125 | FW MH 18<br>1.2mØ PC<br>D400 cover<br>CL=5.350<br>IL=2.870    |
| FW MH 19<br>450mmØ PPIC<br>B125 cover<br>CL=5.800<br>IL=2.860 | FW MH 20<br>450mmØ PPIC<br>B125 cover<br>CL=5.800<br>IL=2.735 | FW MH 21<br>1.2mØ PC<br>D400 cover<br>CL=5.640<br>IL=2.435    |                                                               |                                                               |                                                               |                                                               |                                                               |                                                               |

- NOTES
- Do not scale this drawing. If in doubt ask.
  - This drawing to be read in conjunction with all relevant Specialists and Engineers drawings and specifications.
  - Topographical survey information taken from 'Offground Land Surveyors Ltd' survey ref: 13950815 dated August 2015 supplied to SLR by Client.
  - Location of existing services currently unknown. Any services location and type to be confirmed prior to construction works.
  - Full Building Regulation approval should be obtained prior to the commencement of works on site, and any works carried out prior to this are undertaken at the Client's/ Contractor's own risk.
  - The works are to be carried out to the approval and satisfaction of the Building Control Officer, to accepted good building practice and with full compliance and in accordance with all relevant British Standards and Codes of practice.
  - Method statement must be agreed before work is carried out.
  - Engineered granular fill material in accordance with Specification for Highway Works. Class 6F1, 6F2 or 6N granular material in accordance with Table 6/1. Grading requirements to Table 6/2 and compaction to conform to Table 6/4.
  - Concrete grades are to be in accordance with BS8500-1: 2002 and BS8500-2: 2002 placed, compacted and protected in accordance with the National Standard Concrete Specification.
  - All drainage to be kitemark certified and installed in accordance with the latest edition of 'Sewers for Adoption'. The Contractor is to remain responsible for the temporary stability of the surrounding ground throughout the construction.

- LEGEND
- Planning Boundary
  - Foul Water Drainage
  - Filter Drain
  - Surface Water Drainage
  - Catchpit Manhole
  - Cellular 'Stormbloc' Attenuation Storage
  - Proposed Levels
  - Shared Road/ Footpath
  - Private Footpath
  - Driveway Paving
  - Indicative Root Protection Area

P2

MC

LN

OCT 20

Drainage labels updated to reflect new comments. Access road updated to match approved.

P1

DH

LN

AUG 20

Road levels and Units FFL added. Drainage information updated to suit. Surface types added.

P0

DH

SDE

JUL 20

PLANNING ISSUE

Revision

By

Chkd By

Date

Comments

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Site

LAND WEST OF YAPTON ROAD

MIDDLETON-ON-SEA, BOGNOR REGIS

Project

SURFACE WATER DRAINAGE STRATEGY

Drawing Title

PROPOSED DRAINAGE LAYOUT

Scale

1:200 @ A1

Date

JULY 2020

Drawing Number

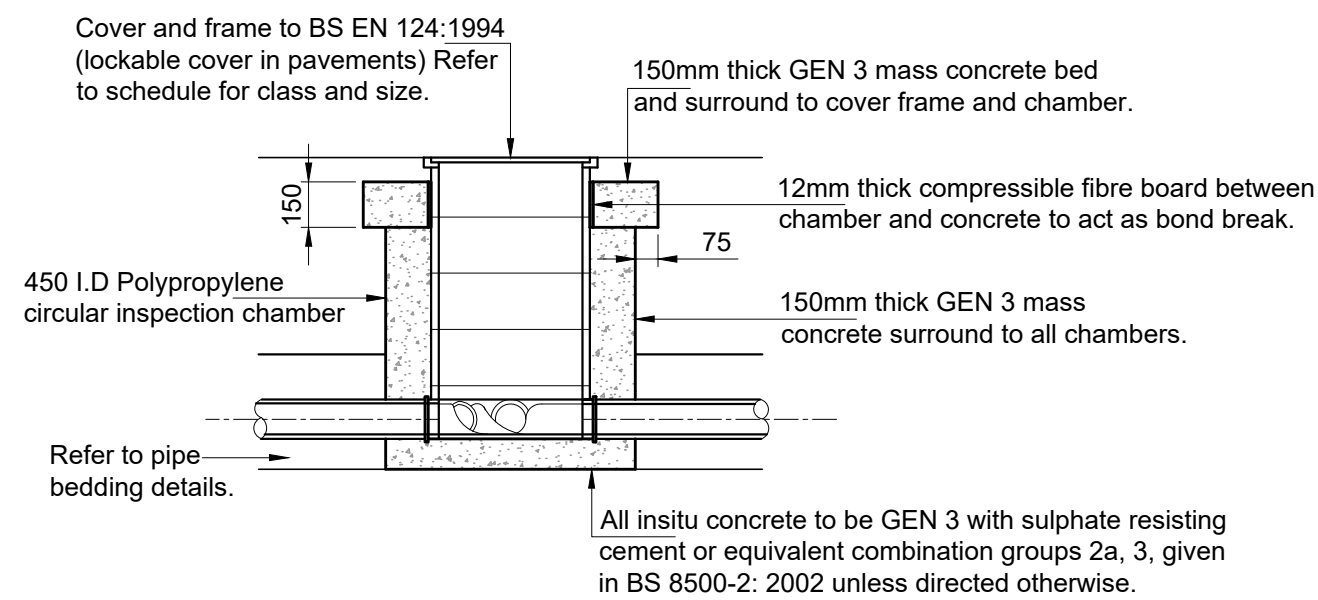
402.06594.00008.07.001

Revision

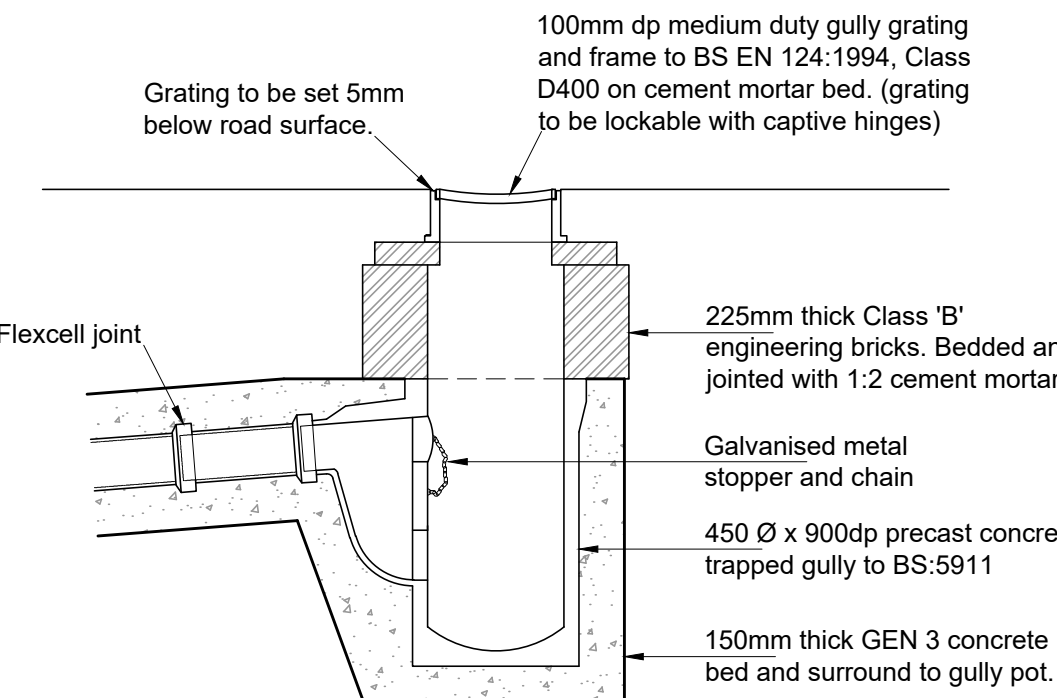
P2

PLANNING

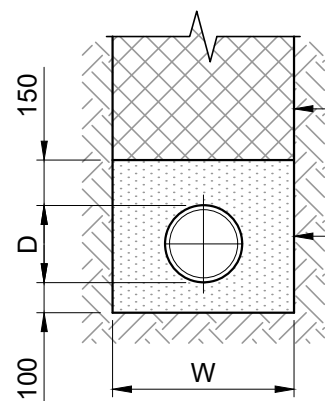
402.06594.00008.07.1 Drainage Details MASTER 201027.dwg



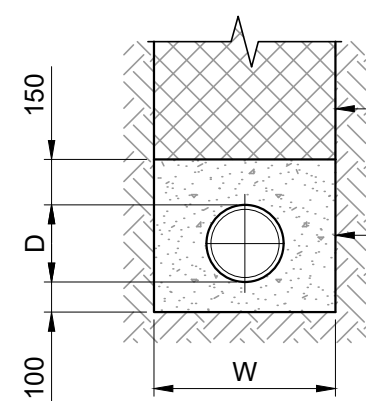
**TYPICAL INSPECTION CHAMBER DETAIL  
IN AREAS WITHOUT VEHICULAR ACCESS**  
1:25



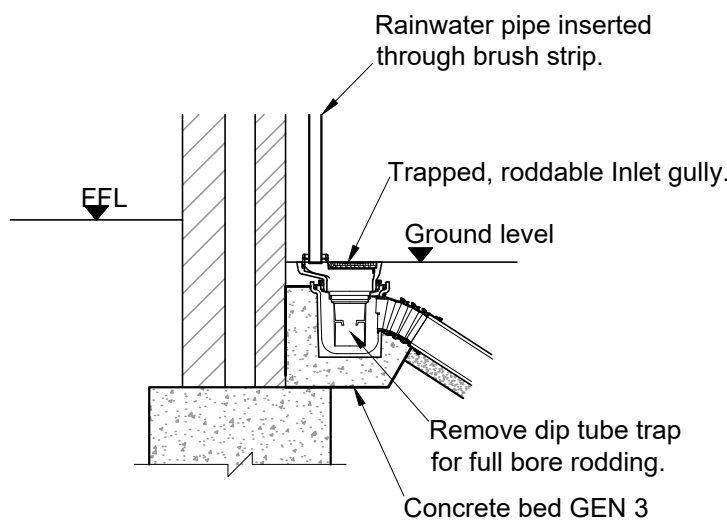
**ROAD GULLY DETAIL**  
1:25



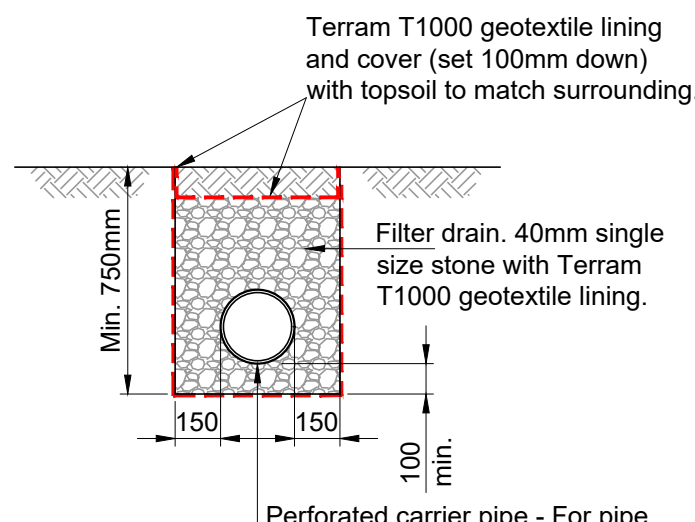
**CLASS 'S' PIPE BEDDING & BACKFILLING DETAIL**  
pipes where cover to crown is greater than 1200mm under roads and footpaths



**CLASS 'Z' PIPE BEDDING & BACKFILLING DETAIL**  
pipes where cover to crown is less than 1200mm under roads and footpaths



**INLET GULLY CONNECTION DETAIL**  
1:25



**FILTER DRAIN DETAIL**  
1:25

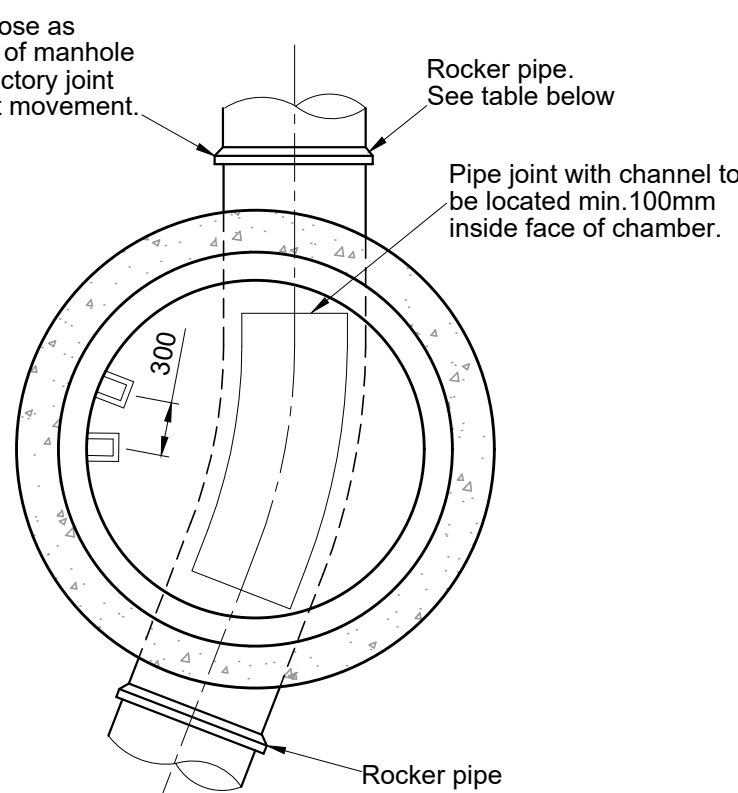
| TRENCH DIMENSIONS |     |     |     |     |      |
|-------------------|-----|-----|-----|-----|------|
| D                 | 100 | 150 | 225 | 300 | 375  |
| W                 | 450 | 600 | 700 | 850 | 1050 |

| TRENCH BEDDING AND FILL MATERIALS |                             |                                             |      |    |     |      |      |
|-----------------------------------|-----------------------------|---------------------------------------------|------|----|-----|------|------|
| GRANULAR BEDDING TYPE 'A'         |                             |                                             |      |    |     |      |      |
| TYPE                              | USE FOR NOMINAL PIPE (DIA.) | % PASSING BY MASS B.S. 410 SIEVE SIZES (mm) |      |    |     |      |      |
|                                   |                             | 63                                          | 37.5 | 20 | 14  | 10   | 5    |
| A10                               | <300                        | -                                           | -    | -  | 100 | 85.1 | 0.25 |

TYPE 'B' FILL MATERIAL

Fill type 'B' will consist of readily compacted material free from tree roots, vegetable matter, building material, frozen soil, clay lumps retained on a 75mm sieve and stones larger than permitted for type 'A' material

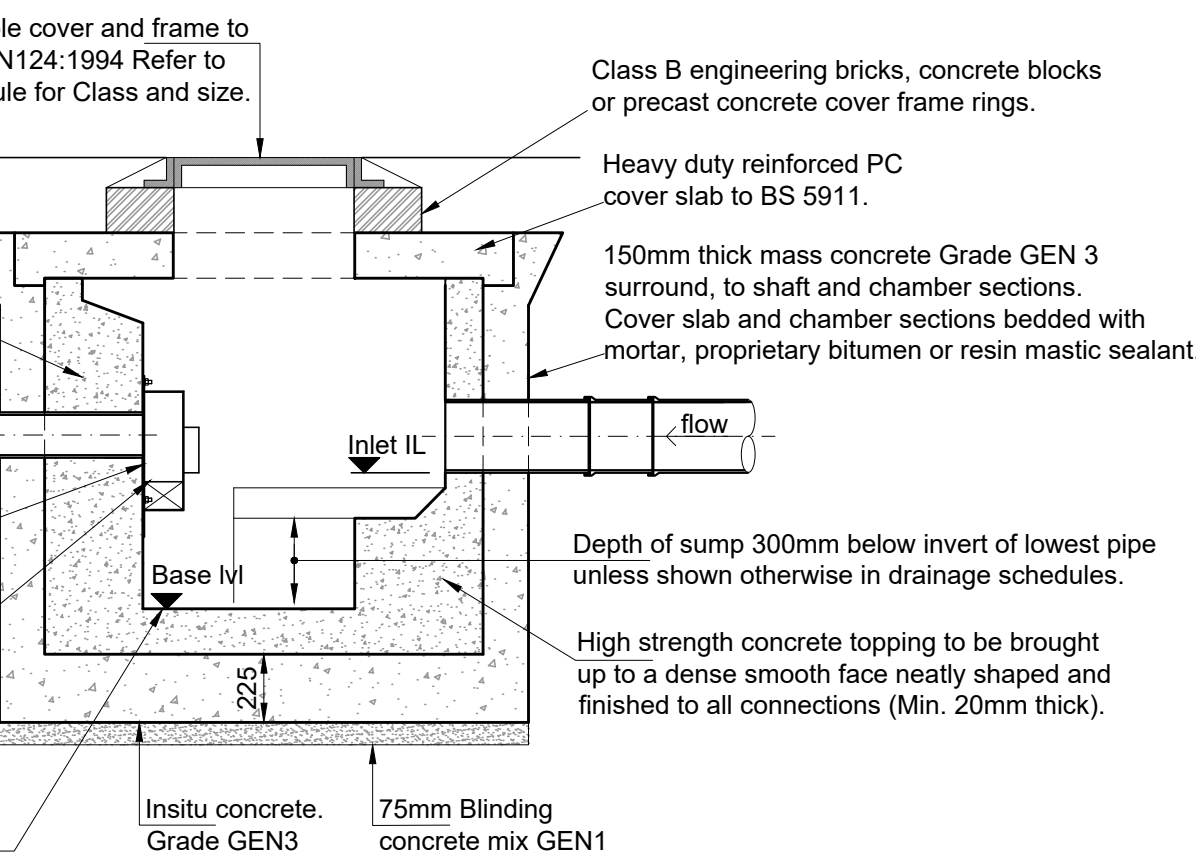
NOTE:  
Type 'B' not to be used under carriageways and parking areas on clay sites indicated on sections. It is to be substituted by DOT Type 2.



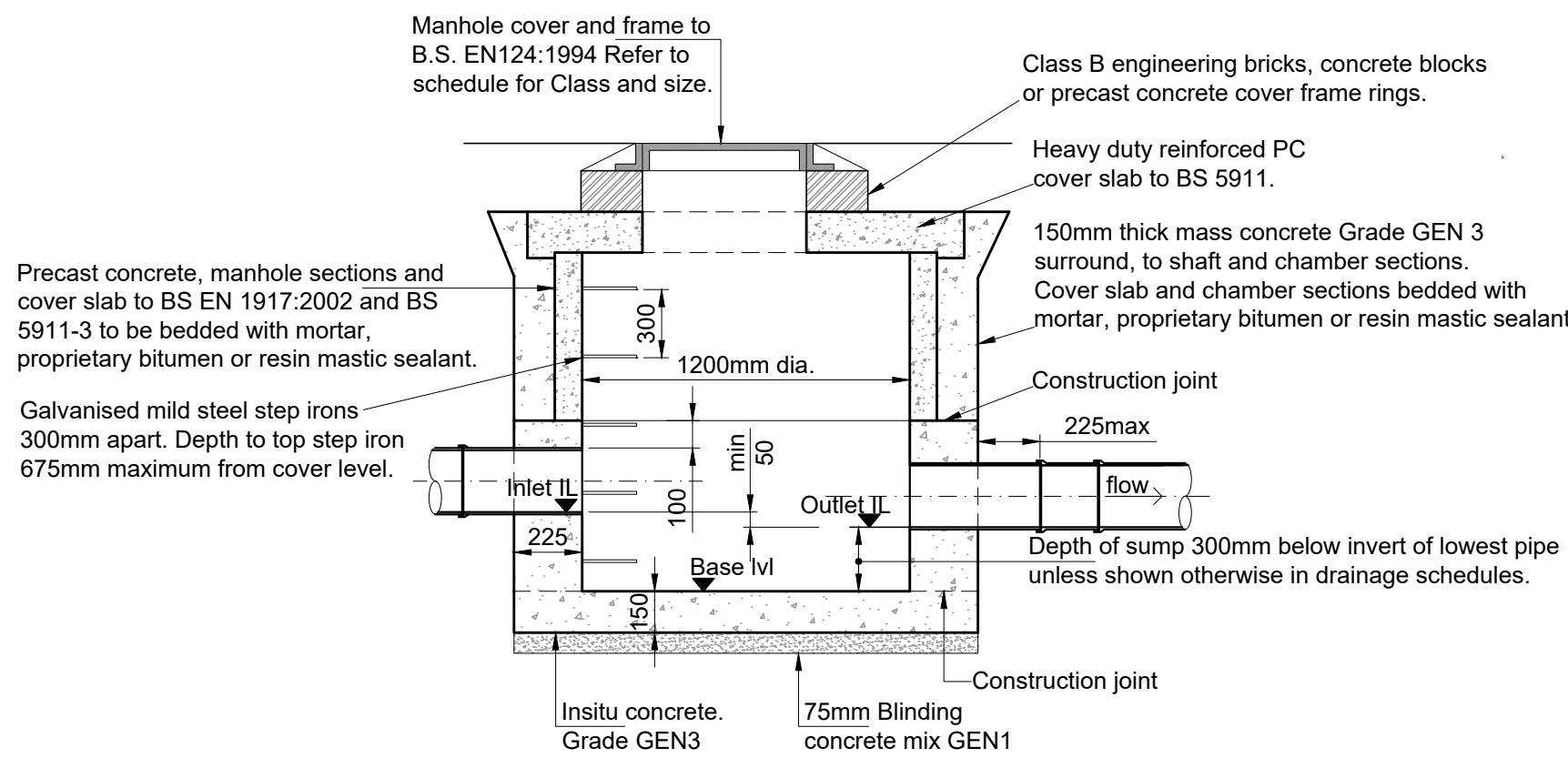
**PLAN ON MANHOLE**  
N.T.S.

| INTERNAL DIAMETER OF MANHOLE             |                                   |
|------------------------------------------|-----------------------------------|
| Diameter of Largest Pipe in Manhole (mm) | Internal Diameter of Manhole (mm) |
| Less than 375                            | 1200                              |
| 375 to 450                               | 1350                              |
| 500 to 700                               | 1500                              |
| 750 to 900                               | 1800                              |
| >900                                     | Consult Undertaker                |

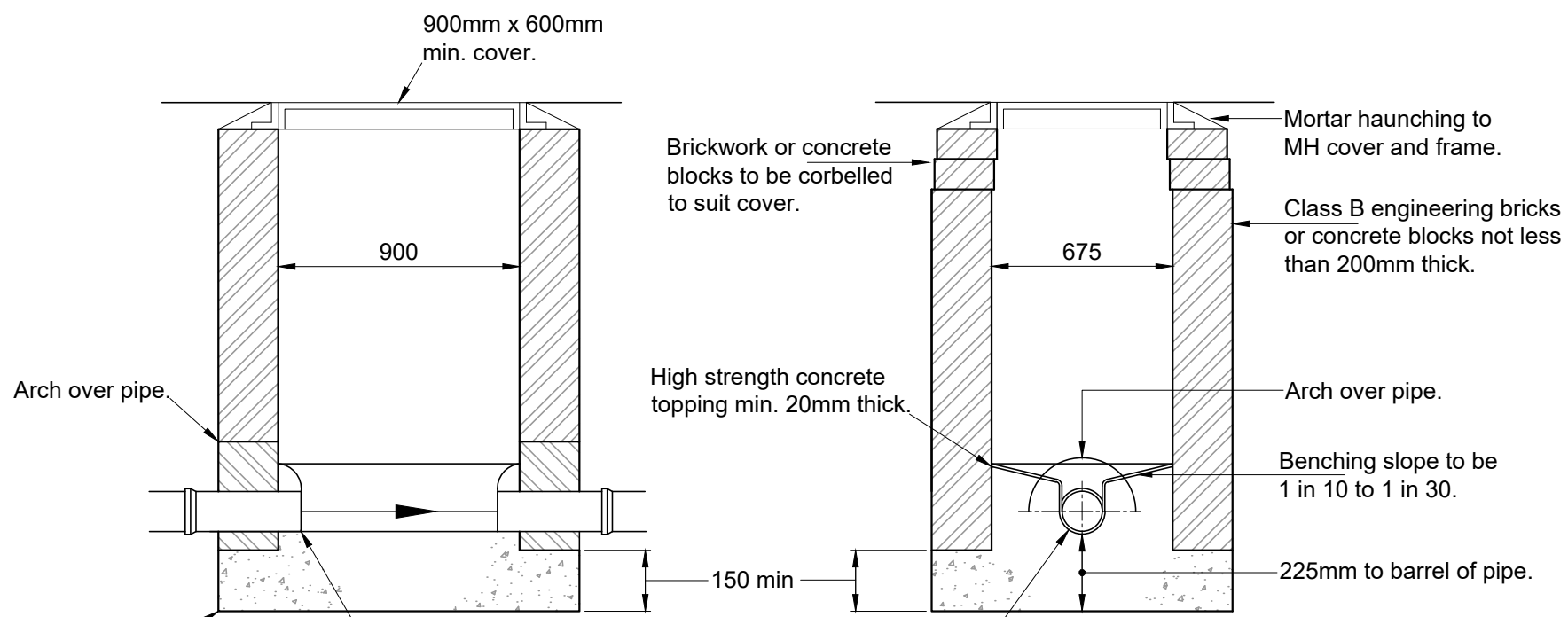
| MIN ROCKER PIPE LENGTH         |       |
|--------------------------------|-------|
| Nominal Diameter of Sewer (mm) | L(mm) |
| 150 to 600                     | 600   |
| 675 to 750                     | 1000  |
| over 750                       | 1250  |



**HYDROBRAKE MANHOLE DETAIL**  
1:25

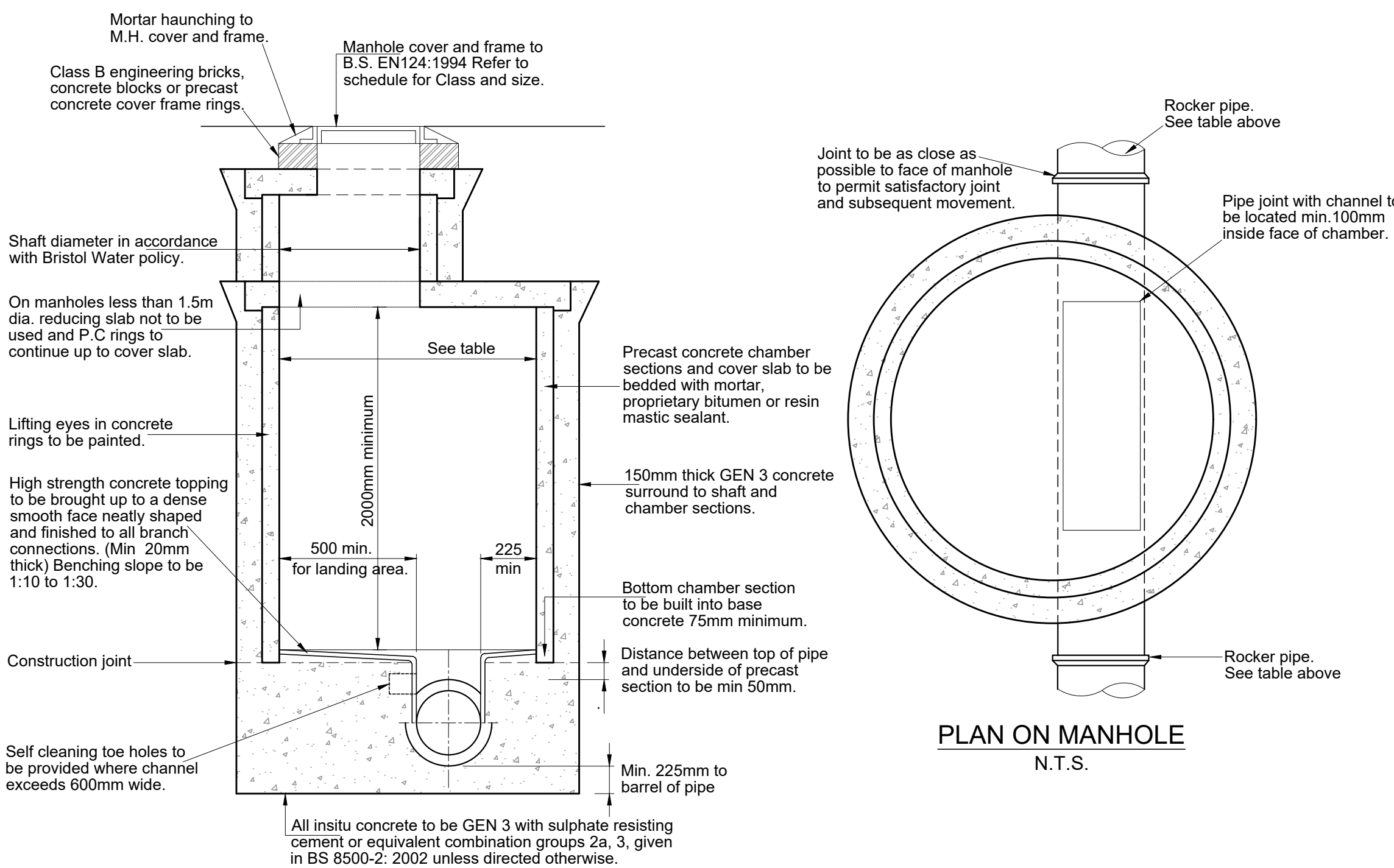


**TYPICAL CATCH PIT DETAIL**  
1:25



**TYPICAL MANHOLE DETAIL - TYPE D**

Depth from cover level to soffit of pipe less than 1.0m  
Approval of the Undertaker must be given for installation of this type of manhole  
NTS

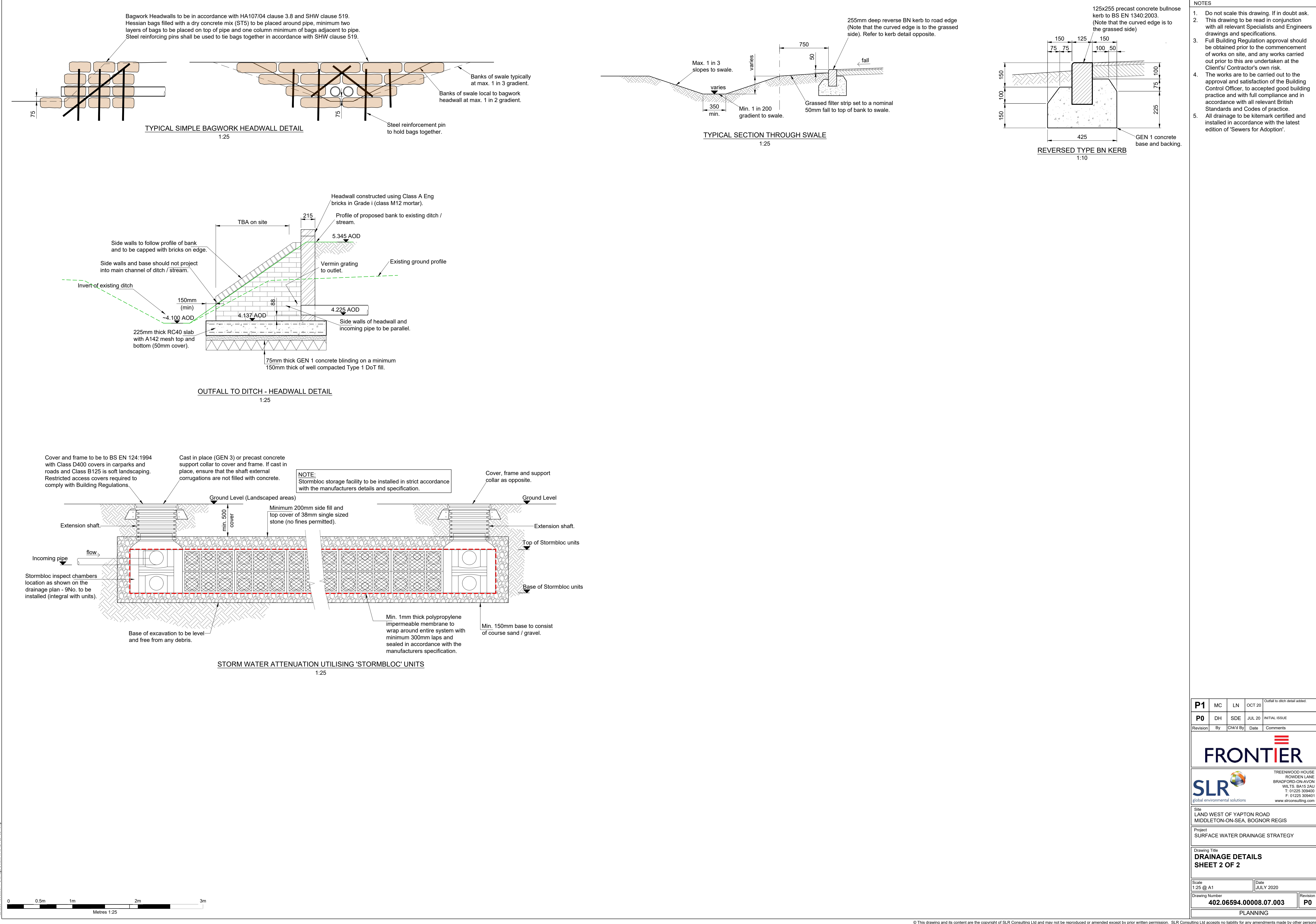


**TYPICAL MANHOLE DETAIL - TYPE A**

Depth from cover level to soffit of pipe 3m to 6m.  
Steps and access arrangements or otherwise to be fitted  
N.T.S.

- NOTES
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  - All drainage to be kitemark certified and installed in accordance with the latest edition of 'Sewers for Adoption'.

|                                                                |    |                 |        |                             |
|----------------------------------------------------------------|----|-----------------|--------|-----------------------------|
| P1                                                             | MC | LN              | OCT 20 | Hydrobrake reference added. |
| P0                                                             | DH | SDE             | JUL 20 | PLANNING ISSUE              |
| Revision                                                       | By | Chk'd By        | Date   | Comments                    |
| <b>FRONTIER</b>                                                |    |                 |        |                             |
| <b>SLR</b> global environmental solutions                      |    |                 |        |                             |
| Site: LAND WEST OF YAPTON ROAD, MIDDLETON-ON-SEA, BOGNOR REGIS |    |                 |        |                             |
| Project: SURFACE WATER DRAINAGE STRATEGY                       |    |                 |        |                             |
| Drawing Title: <b>DRAINAGE DETAILS SHEET 1 OF 2</b>            |    |                 |        |                             |
| Scale: 1:25 @ A1                                               |    | Date: JULY 2020 |        |                             |
| Drawing Number: <b>402.06594.00008.07.002</b>                  |    |                 |        | Revision: <b>P0</b>         |
| PLANNING                                                       |    |                 |        |                             |



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  5. All drainage to be kitemark certified and installed in accordance with the latest edition of 'Sewers for Adoption'.

|                                                                                                                                                                                                                                                       |    |          |                   |                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------|-------------------|--------------------------------|
| P1                                                                                                                                                                                                                                                    | MC | LN       | OCT 20            | Outfall to ditch detail added. |
| P0                                                                                                                                                                                                                                                    | DH | SDE      | JUL 20            | INITIAL ISSUE                  |
| Revision                                                                                                                                                                                                                                              | By | CHK'd By | Date              | Comments                       |
| <div><div>FRONTIER</div><div><div>SLR</div><div>global environmental solutions</div></div><div>TREENWOOD HOUSE<br/>ROWDEN LANE<br/>BRADFORD-ON-AVON<br/>WILTS. BA15 2AU<br/>T: 01225 309400<br/>F: 01225 309401<br/>www.slrconsulting.com</div></div> |    |          |                   |                                |
| Site<br>LAND WEST OF YAPTON ROAD<br>MIDDLETON-ON-SEA, BOGNOR REGIS                                                                                                                                                                                    |    |          |                   |                                |
| Project<br>SURFACE WATER DRAINAGE STRATEGY                                                                                                                                                                                                            |    |          |                   |                                |
| Drawing Title<br><b>DRAINAGE DETAILS<br/>SHEET 2 OF 2</b>                                                                                                                                                                                             |    |          |                   |                                |
| Scale<br>1:25 @ A1                                                                                                                                                                                                                                    |    |          | Date<br>JULY 2020 |                                |
| Drawing Number<br><b>402.06594.00008.07.003</b>                                                                                                                                                                                                       |    |          |                   | Revision<br><b>P0</b>          |
| PLANNING                                                                                                                                                                                                                                              |    |          |                   |                                |



- NOTES
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  3. Topographical survey information taken from 'Offington Land Surveyors Ltd' survey ref: 13950815 dated August 2015 supplied to SLR by Client.
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  6. The works are to be carried out to the approval and satisfaction of the Building Control Officer, to accepted good building practice and with full compliance and in accordance with all relevant British Standards and Codes of practice.
  7. Method statement must be agreed before work is carried out.

LEGEND

|  |                                     |
|--|-------------------------------------|
|  | Planning Boundary                   |
|  | Road = 635m <sup>2</sup>            |
|  | Footpath = 481m <sup>2</sup>        |
|  | Driveway Paving = 365m <sup>2</sup> |
|  | Roof = 935m <sup>2</sup>            |

|           |           |           |               |                       |
|-----------|-----------|-----------|---------------|-----------------------|
| <b>P0</b> | <b>MC</b> | <b>LN</b> | <b>OCT 20</b> | <b>PLANNING ISSUE</b> |
| Revision  | By        | CHK'd By  | Date          | Comments              |

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Site  
LAND WEST OF YAPTON ROAD  
MIDDLETON-ON-SEA, BOGNOR REGIS

Project  
SURFACE WATER DRAINAGE STRATEGY

Drawing Title  
**PROPOSED IMPERMEABLE AREAS**

Scale  
1:200 @ A1

Date  
OCTOBER 2020

Drawing Number  
**402.06594.00008.07.004**

Revision  
**P0**

PLANNING

402.06594.00008.07.004.P0.DWG Proposed Drainage Layouts, v4.dwg



- NOTES
1. Do not scale this drawing. If in doubt ask.
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  3. Topographical survey information taken from 'Offington Land Surveyors Ltd' survey ref: 13950815 dated August 2015 supplied to SLR by Client.
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  7. Method statement must be agreed before work is carried out.

- LEGEND
- Planning Boundary
  - Exceedance Flow Route Above Design Flood Event
  - Exceedance Flow Route From Northern Offsite Source

| P0                                                                                                                                                                                                                                                                                                                                                                                                                        | MC | LN       | OCT 20               | PLANNING ISSUE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------|----------------------|----------------|
| Revision                                                                                                                                                                                                                                                                                                                                                                                                                  | By | Chk'd By | Date                 | Comments       |
| <div><div><div><div>FRONTIER</div><div><div>SLR</div><div></div></div><div>global environmental solutions</div></div><div><div>TREENWOOD HOUSE</div><div>ROWDEN LANE</div><div>BRADFORD-ON-AVON</div><div>WILTS. BA15 2AU</div><div>T: 01225 508400</div><div>F: 01225 308401</div><div>www.slrcosulting.com</div></div></div></div> |    |          |                      |                |
| Site<br>LAND WEST OF YAPTON ROAD<br>MIDDLETON-ON-SEA, BOGNOR REGIS                                                                                                                                                                                                                                                                                                                                                        |    |          |                      |                |
| Project<br>SURFACE WATER DRAINAGE STRATEGY                                                                                                                                                                                                                                                                                                                                                                                |    |          |                      |                |
| Drawing Title<br>PROPOSED EXCEEDANCE ROUTE                                                                                                                                                                                                                                                                                                                                                                                |    |          |                      |                |
| Scale<br>1:200 @ A1                                                                                                                                                                                                                                                                                                                                                                                                       |    |          | Date<br>OCTOBER 2020 |                |
| Drawing Number<br>402.06594.00008.07.005                                                                                                                                                                                                                                                                                                                                                                                  |    |          |                      | Revision<br>P0 |
| PLANNING                                                                                                                                                                                                                                                                                                                                                                                                                  |    |          |                      |                |

|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
|------------------------------------------------------------|------------|-------------|---------|-------------------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------|--------------------|
| SLR Consulting Ltd                                         |            |             |         |                                                       |             |             | Page 1                                                                              |                    |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH |            |             |         | Middleton-on-Sea<br>Surface Water Drainage<br>Network |             |             |  |                    |
| Date 20/08/2020                                            |            |             |         | Designed by MC                                        |             |             |                                                                                     |                    |
| File 201028 402.06594.00008....                            |            |             |         | Checked by                                            |             |             |                                                                                     |                    |
| Innovyze                                                   |            |             |         | Network 2019.1                                        |             |             |                                                                                     |                    |
| PIPELINE SCHEDULES for Storm                               |            |             |         |                                                       |             |             |                                                                                     |                    |
| Upstream Manhole                                           |            |             |         |                                                       |             |             |                                                                                     |                    |
| PN                                                         | Hyd Sect   | Diam (mm)   | MH Name | C.Level (m)                                           | I.Level (m) | D.Depth (m) | MH Connection                                                                       | MH DIAM., L*W (mm) |
| 1.000                                                      | o          | 150         | SW01    | 5.550                                                 | 4.790       | 0.610       | Open Manhole                                                                        | 1200               |
| 1.001                                                      | o          | 150         | SW03    | 5.600                                                 | 4.669       | 0.781       | Open Manhole                                                                        | 1200               |
| 1.002                                                      | o          | 150         | SW04    | 5.600                                                 | 4.615       | 0.835       | Open Manhole                                                                        | 1200               |
| 1.003                                                      | o          | 150         | SW05    | 5.600                                                 | 4.525       | 0.925       | Open Manhole                                                                        | 1200               |
| 1.004                                                      | o          | 150         | SW06    | 5.700                                                 | 4.495       | 1.055       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 2.000                                                      | o          | 100         | SW08    | 5.700                                                 | 4.702       | 0.898       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 1.005                                                      | o          | 225         | SW09    | 5.450                                                 | 4.364       | 0.861       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 3.000                                                      | o          | 100         | SW19a   | 5.600                                                 | 4.600       | 0.900       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 4.000                                                      | o          | 150         | SW19    | 5.450                                                 | 4.450       | 0.850       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 5.000                                                      | o          | 150         | SW11    | 5.550                                                 | 4.555       | 0.845       | Open Manhole                                                                        | 1200               |
| 5.001                                                      | o          | 150         | SW12    | 5.550                                                 | 4.475       | 0.925       | Open Manhole                                                                        | 1200               |
| 5.002                                                      | o          | 150         | SW13    | 5.550                                                 | 4.440       | 0.960       | Open Manhole                                                                        | 1200               |
| 5.003                                                      | o          | 150         | SW15    | 5.400                                                 | 4.385       | 0.865       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 1.006                                                      | o          | 225         | SW10    | 5.400                                                 | 4.300       | 0.875       | Open Manhole                                                                        | 1200               |
| Downstream Manhole                                         |            |             |         |                                                       |             |             |                                                                                     |                    |
| PN                                                         | Length (m) | Slope (1:X) | MH Name | C.Level (m)                                           | I.Level (m) | D.Depth (m) | MH Connection                                                                       | MH DIAM., L*W (mm) |
| 1.000                                                      | 18.160     | 150.1       | SW03    | 5.600                                                 | 4.669       | 0.781       | Open Manhole                                                                        | 1200               |
| 1.001                                                      | 8.080      | 149.6       | SW04    | 5.600                                                 | 4.615       | 0.835       | Open Manhole                                                                        | 1200               |
| 1.002                                                      | 13.410     | 150.7       | SW05    | 5.600                                                 | 4.526       | 0.924       | Open Manhole                                                                        | 1200               |
| 1.003                                                      | 4.630      | 149.4       | SW06    | 5.700                                                 | 4.494       | 1.056       | Open Manhole                                                                        | 1200               |
| 1.004                                                      | 8.404      | 150.1       | SW09    | 5.450                                                 | 4.439       | 0.861       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 2.000                                                      | 10.657     | 50.0        | SW09    | 5.450                                                 | 4.489       | 0.861       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 1.005                                                      | 13.953     | 225.0       | SW10    | 5.400                                                 | 4.302       | 0.873       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 3.000                                                      | 11.653     | 66.6        | SW10    | 5.400                                                 | 4.425       | 0.875       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 4.000                                                      | 5.267      | 70.2        | SW10    | 5.400                                                 | 4.375       | 0.875       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 5.000                                                      | 12.064     | 150.8       | SW12    | 5.550                                                 | 4.475       | 0.925       | Open Manhole                                                                        | 1200               |
| 5.001                                                      | 5.314      | 151.8       | SW13    | 5.550                                                 | 4.440       | 0.960       | Open Manhole                                                                        | 1200               |
| 5.002                                                      | 7.967      | 150.3       | SW15    | 5.400                                                 | 4.387       | 0.863       | Open Manhole                                                                        | 1200               |
| 5.003                                                      | 12.664     | 150.8       | SW10    | 5.400                                                 | 4.301       | 0.949       | Open Manhole                                                                        | 1200               |
|                                                            |            |             |         |                                                       |             |             |                                                                                     |                    |
| 1.006                                                      | 6.143      | 245.7       | crate   | 5.435                                                 | 4.275       | 0.935       | Open Manhole                                                                        | 10000              |
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|                                                            |            |                                                       |                                                                                     |             |             |             |               |                    |
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| SLR Consulting Ltd                                         |            | Page 2                                                |                                                                                     |             |             |             |               |                    |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH |            | Middleton-on-Sea<br>Surface Water Drainage<br>Network |  |             |             |             |               |                    |
| Date 20/08/2020                                            |            | Designed by MC                                        |                                                                                     |             |             |             |               |                    |
| File 201028 402.06594.00008....                            |            | Checked by                                            |                                                                                     |             |             |             |               |                    |
| Innovyze                                                   |            | Network 2019.1                                        |                                                                                     |             |             |             |               |                    |
| PIPELINE SCHEDULES for Storm                               |            |                                                       |                                                                                     |             |             |             |               |                    |
| Upstream Manhole                                           |            |                                                       |                                                                                     |             |             |             |               |                    |
| PN                                                         | Hyd Sect   | Diam (mm)                                             | MH Name                                                                             | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
| 6.000                                                      | o          | 150                                                   | SW27                                                                                | 5.700       | 4.700       | 0.850       | Open Manhole  | 1200               |
| 7.000                                                      | o          | 150                                                   | SW29                                                                                | 5.800       | 4.850       | 0.800       | Open Manhole  | 1200               |
| 7.001                                                      | o          | 150                                                   | SW31                                                                                | 5.800       | 4.780       | 0.870       | Open Manhole  | 1200               |
| 6.001                                                      | o          | 150                                                   | SW28                                                                                | 5.700       | 4.627       | 0.923       | Open Manhole  | 1200               |
| 6.002                                                      | o          | 150                                                   | SW32                                                                                | 5.650       | 4.456       | 1.044       | Open Manhole  | 1200               |
| 8.000                                                      | o          | 150                                                   | SW36                                                                                | 5.700       | 4.515       | 1.035       | Open Manhole  | 1200               |
| 9.000                                                      | o          | 150                                                   | SW37                                                                                | 5.800       | 4.850       | 0.800       | Open Manhole  | 1200               |
| 9.001                                                      | o          | 150                                                   | SW38                                                                                | 5.775       | 4.720       | 0.905       | Open Manhole  | 1200               |
| 9.002                                                      | o          | 150                                                   | SW39                                                                                | 5.775       | 4.662       | 0.963       | Open Manhole  | 1200               |
| 9.003                                                      | o          | 225                                                   | SW41                                                                                | 5.600       | 4.512       | 0.863       | Open Manhole  | 1200               |
| 6.003                                                      | o          | 225                                                   | SW33                                                                                | 5.500       | 4.336       | 0.939       | Open Manhole  | 1200               |
| 10.000                                                     | o          | 150                                                   | SW43                                                                                | 5.450       | 4.656       | 0.644       | Open Manhole  | 1200               |
| 10.001                                                     | o          | 150                                                   | SW44                                                                                | 5.450       | 4.571       | 0.729       | Open Manhole  | 1200               |
| 10.002                                                     | o          | 150                                                   | SW45                                                                                | 5.500       | 4.541       | 0.809       | Open Manhole  | 1200               |
| Downstream Manhole                                         |            |                                                       |                                                                                     |             |             |             |               |                    |
| PN                                                         | Length (m) | Slope (1:X)                                           | MH Name                                                                             | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
| 6.000                                                      | 7.997      | 109.5                                                 | SW28                                                                                | 5.700       | 4.627       | 0.923       | Open Manhole  | 1200               |
| 7.000                                                      | 8.712      | 124.5                                                 | SW31                                                                                | 5.800       | 4.780       | 0.870       | Open Manhole  | 1200               |
| 7.001                                                      | 8.320      | 54.4                                                  | SW28                                                                                | 5.700       | 4.627       | 0.923       | Open Manhole  | 1200               |
| 6.001                                                      | 14.691     | 85.9                                                  | SW32                                                                                | 5.650       | 4.456       | 1.044       | Open Manhole  | 1200               |
| 6.002                                                      | 6.751      | 150.0                                                 | SW33                                                                                | 5.500       | 4.411       | 0.939       | Open Manhole  | 1200               |
| 8.000                                                      | 9.188      | 90.1                                                  | SW33                                                                                | 5.500       | 4.413       | 0.937       | Open Manhole  | 1200               |
| 9.000                                                      | 12.887     | 99.1                                                  | SW38                                                                                | 5.775       | 4.720       | 0.905       | Open Manhole  | 1200               |
| 9.001                                                      | 5.158      | 88.9                                                  | SW39                                                                                | 5.775       | 4.662       | 0.963       | Open Manhole  | 1200               |
| 9.002                                                      | 6.633      | 88.4                                                  | SW41                                                                                | 5.600       | 4.587       | 0.863       | Open Manhole  | 1200               |
| 9.003                                                      | 15.736     | 89.9                                                  | SW33                                                                                | 5.500       | 4.337       | 0.938       | Open Manhole  | 1200               |
| 6.003                                                      | 9.773      | 91.0                                                  | SW42                                                                                | 5.250       | 4.229       | 0.796       | Open Manhole  | 1200               |
| 10.000                                                     | 12.732     | 149.8                                                 | SW44                                                                                | 5.450       | 4.571       | 0.729       | Open Manhole  | 1200               |
| 10.001                                                     | 4.462      | 148.7                                                 | SW45                                                                                | 5.500       | 4.541       | 0.809       | Open Manhole  | 1200               |
| 10.002                                                     | 9.155      | 39.0                                                  | SW42                                                                                | 5.250       | 4.306       | 0.794       | Open Manhole  | 1200               |
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|                                                            |            |                                                       |                                                                                     |             |             |             |               |                    |
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| SLR Consulting Ltd                                         |            | Page 3                                                |                                                                                     |             |             |             |               |                    |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH |            | Middleton-on-Sea<br>Surface Water Drainage<br>Network |  |             |             |             |               |                    |
| Date 20/08/2020                                            |            | Designed by MC                                        |                                                                                     |             |             |             |               |                    |
| File 201028 402.06594.00008....                            |            | Checked by                                            |                                                                                     |             |             |             |               |                    |
| Innovyze                                                   |            | Network 2019.1                                        |                                                                                     |             |             |             |               |                    |
| PIPELINE SCHEDULES for Storm                               |            |                                                       |                                                                                     |             |             |             |               |                    |
| Upstream Manhole                                           |            |                                                       |                                                                                     |             |             |             |               |                    |
| PN                                                         | Hyd Sect   | Diam (mm)                                             | MH Name                                                                             | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
| 6.004                                                      | o          | 225                                                   | SW42                                                                                | 5.250       | 4.229       | 0.796       | Open Manhole  | 1200               |
| 11.000                                                     | o          | 150                                                   | SW55                                                                                | 5.500       | 4.392       | 0.958       | Open Manhole  | 1200               |
| 12.000                                                     | o          | 150                                                   | SW50                                                                                | 5.450       | 4.775       | 0.525       | Open Manhole  | 1200               |
| 12.001                                                     | o          | 150                                                   | SW51                                                                                | 5.450       | 4.550       | 0.750       | Open Manhole  | 1200               |
| 12.002                                                     | o          | 150                                                   | SW52                                                                                | 5.450       | 4.511       | 0.789       | Open Manhole  | 1200               |
| 13.000                                                     | o          | 100                                                   | SW53                                                                                | 5.375       | 4.550       | 0.725       | Open Manhole  | 1200               |
| 12.003                                                     | o          | 225                                                   | SW54                                                                                | 5.375       | 4.256       | 0.894       | Open Manhole  | 1200               |
| 14.000                                                     | o          | 150                                                   | SW46                                                                                | 5.400       | 4.533       | 0.717       | Open Manhole  | 1200               |
| 14.001                                                     | o          | 150                                                   | SW47                                                                                | 5.400       | 4.435       | 0.815       | Open Manhole  | 1200               |
| 14.002                                                     | o          | 150                                                   | SW48                                                                                | 5.375       | 4.350       | 0.875       | Open Manhole  | 1200               |
| 14.003                                                     | o          | 150                                                   | SW49                                                                                | 5.150       | 4.298       | 0.702       | Open Manhole  | 1200               |
| 15.000                                                     | o          | 150                                                   | SW20                                                                                | 5.300       | 4.561       | 0.589       | Open Manhole  | 1200               |
| 15.001                                                     | o          | 150                                                   | SW21                                                                                | 5.300       | 4.498       | 0.652       | Open Manhole  | 1200               |
| 15.002                                                     | o          | 150                                                   | SW22                                                                                | 5.300       | 4.439       | 0.711       | Open Manhole  | 1200               |
| 15.003                                                     | o          | 150                                                   | SW24                                                                                | 5.175       | 4.377       | 0.648       | Open Manhole  | 1200               |
| Downstream Manhole                                         |            |                                                       |                                                                                     |             |             |             |               |                    |
| PN                                                         | Length (m) | Slope (1:X)                                           | MH Name                                                                             | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
| 6.004                                                      | 3.062      | 153.1                                                 | crate                                                                               | 5.435       | 4.209       | 1.001       | Open Manhole  | 10000              |
| 11.000                                                     | 17.610     | 150.5                                                 | crate                                                                               | 5.435       | 4.275       | 1.010       | Open Manhole  | 10000              |
| 12.000                                                     | 11.110     | 150.1                                                 | SW51                                                                                | 5.450       | 4.701       | 0.599       | Open Manhole  | 1200               |
| 12.001                                                     | 5.905      | 151.4                                                 | SW52                                                                                | 5.450       | 4.511       | 0.789       | Open Manhole  | 1200               |
| 12.002                                                     | 15.615     | 61.0                                                  | SW54                                                                                | 5.375       | 4.255       | 0.970       | Open Manhole  | 1200               |
| 13.000                                                     | 8.312      | 34.0                                                  | SW54                                                                                | 5.375       | 4.306       | 0.969       | Open Manhole  | 1200               |
| 12.003                                                     | 12.779     | 224.2                                                 | crate                                                                               | 5.435       | 4.199       | 1.011       | Open Manhole  | 10000              |
| 14.000                                                     | 14.650     | 149.5                                                 | SW47                                                                                | 5.400       | 4.435       | 0.815       | Open Manhole  | 1200               |
| 14.001                                                     | 12.699     | 149.4                                                 | SW48                                                                                | 5.375       | 4.350       | 0.875       | Open Manhole  | 1200               |
| 14.002                                                     | 7.776      | 149.5                                                 | SW49                                                                                | 5.150       | 4.298       | 0.702       | Open Manhole  | 1200               |
| 14.003                                                     | 3.443      | 149.7                                                 | crate                                                                               | 5.435       | 4.275       | 1.010       | Open Manhole  | 10000              |
| 15.000                                                     | 9.476      | 150.4                                                 | SW21                                                                                | 5.300       | 4.498       | 0.652       | Open Manhole  | 1200               |
| 15.001                                                     | 8.790      | 149.0                                                 | SW22                                                                                | 5.300       | 4.439       | 0.711       | Open Manhole  | 1200               |
| 15.002                                                     | 9.228      | 148.8                                                 | SW24                                                                                | 5.175       | 4.377       | 0.648       | Open Manhole  | 1200               |
| 15.003                                                     | 10.210     | 150.1                                                 | SW25                                                                                | 5.200       | 4.309       | 0.741       | Open Manhole  | 1200               |
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|                                                            |                                                       |                                                                                     |
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| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH | Middleton-on-Sea<br>Surface Water Drainage<br>Network |  |
| Date 20/08/2020                                            | Designed by MC                                        |                                                                                     |
| File 201028 402.06594.00008....                            | Checked by                                            |                                                                                     |
| Innovyze                                                   | Network 2019.1                                        |                                                                                     |

### PIPELINE SCHEDULES for Storm

#### Upstream Manhole

| PN     | Hyd<br>Sect | Diam<br>(mm) | MH<br>Name | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM., L*W<br>(mm) |
|--------|-------------|--------------|------------|----------------|----------------|----------------|------------------|-----------------------|
| 15.004 | o           | 150          | SW25       | 5.200          | 4.309          | 0.741          | Open Manhole     | 1200                  |
| 16.000 | 3 \=/       | 375          | swale      | 5.325          | 4.975          | 0.200          | Junction         |                       |
| 16.001 | 3 \=/       | 225          | swale of   | 5.435          | 4.719          | 0.566          | Junction         |                       |
| 17.000 | 3 \=/       | 375          | swale2     | 5.325          | 4.975          | 0.200          | Junction         |                       |
| 17.001 | 3 \=/       | 225          | swale 2 of | 5.435          | 4.493          | 0.792          | Junction         |                       |
| 1.007  | o           | 150          | crate      | 5.435          | 4.275          | 1.010          | Open Manhole     | 10000                 |
| 1.008  | o           | 150          | SW58       | 5.385          | 4.250          | 0.985          | Open Manhole     | 1200                  |

#### Downstream Manhole

| PN     | Length<br>(m) | Slope<br>(1:X) | MH<br>Name | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM., L*W<br>(mm) |
|--------|---------------|----------------|------------|----------------|----------------|----------------|------------------|-----------------------|
| 15.004 | 5.071         | 149.1          | crate      | 5.435          | 4.275          | 1.010          | Open Manhole     | 10000                 |
| 16.000 | 32.000        | 125.0          | swale of   | 5.435          | 4.719          | 0.566          | Junction         |                       |
| 16.001 | 3.000         | 6.8            | crate      | 5.435          | 4.275          | 1.010          | Open Manhole     | 10000                 |
| 17.000 | 37.000        | 125.0          | swale 2 of | 5.435          | 4.679          | 0.606          | Junction         |                       |
| 17.001 | 3.000         | 7.4            | crate      | 5.435          | 4.089          | 1.196          | Open Manhole     | 10000                 |
| 1.007  | 4.000         | 266.7          | SW58       | 5.385          | 4.260          | 0.975          | Open Manhole     | 1200                  |
| 1.008  | 4.000         | 160.0          |            | 5.385          | 4.225          | 1.010          | Open Manhole     | 225                   |

### Free Flowing Outfall Details for Storm

| Outfall<br>Pipe Number | Outfall<br>Name | C. Level<br>(m) | I. Level<br>(m) | Min<br>I. Level<br>(m) | D,L<br>(mm) | W<br>(mm) |
|------------------------|-----------------|-----------------|-----------------|------------------------|-------------|-----------|
| 1.008                  |                 | 5.385           | 4.225           | 0.000                  | 225         | 0         |

|                                                            |                                                       |                                                                                     |
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| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH | Middleton-on-Sea<br>Surface Water Drainage<br>Network |  |
| Date 20/08/2020                                            | Designed by MC                                        |                                                                                     |
| File 201028 402.06594.00008....                            | Checked by                                            |                                                                                     |
| Innovyze                                                   |                                                       | Network 2019.1                                                                      |

Online Controls for Storm

Hydro-Brake® Optimum Manhole: crate, DS/PN: 1.007, Volume (m³): 82.3

|                                   |                            |
|-----------------------------------|----------------------------|
| Unit Reference                    | MD-SHE-0075-2100-0600-2100 |
| Design Head (m)                   | 0.600                      |
| Design Flow (l/s)                 | 2.1                        |
| Flush-Flo™                        | Calculated                 |
| Objective                         | Minimise upstream storage  |
| Application                       | Surface                    |
| Sump Available                    | Yes                        |
| Diameter (mm)                     | 75                         |
| Invert Level (m)                  | 4.275                      |
| Minimum Outlet Pipe Diameter (mm) | 100                        |
| Suggested Manhole Diameter (mm)   | 1200                       |

| Control Points            | Head (m) | Flow (l/s) |
|---------------------------|----------|------------|
| Design Point (Calculated) | 0.600    | 2.1        |
| Flush-Flo™                | 0.178    | 2.1        |
| Kick-Flo®                 | 0.399    | 1.7        |
| Mean Flow over Head Range | -        | 1.8        |

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 0.100     | 2.0        | 1.200     | 2.9        | 3.000     | 4.4        | 7.000     | 6.6        |
| 0.200     | 2.1        | 1.400     | 3.1        | 3.500     | 4.7        | 7.500     | 6.8        |
| 0.300     | 2.0        | 1.600     | 3.3        | 4.000     | 5.0        | 8.000     | 7.0        |
| 0.400     | 1.8        | 1.800     | 3.5        | 4.500     | 5.3        | 8.500     | 7.2        |
| 0.500     | 1.9        | 2.000     | 3.6        | 5.000     | 5.6        | 9.000     | 7.5        |
| 0.600     | 2.1        | 2.200     | 3.8        | 5.500     | 5.9        | 9.500     | 7.7        |
| 0.800     | 2.4        | 2.400     | 4.0        | 6.000     | 6.1        |           |            |
| 1.000     | 2.6        | 2.600     | 4.1        | 6.500     | 6.3        |           |            |

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| SLR Consulting Ltd                                         |                                                       | Page 6                                                                              |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH | Middleton-on-Sea<br>Surface Water Drainage<br>Network |  |
| Date 20/08/2020                                            | Designed by MC                                        |                                                                                     |
| File 201028 402.06594.00008....                            | Checked by                                            |                                                                                     |
| Innovyze                                                   |                                                       | Network 2019.1                                                                      |

Storage Structures for Storm

Cellular Storage Manhole: crate, DS/PN: 1.007

Invert Level (m)      4.225    Safety Factor    2.0

Infiltration Coefficient Base (m/hr) 0.00000      Porosity 0.95

Infiltration Coefficient Side (m/hr) 0.00000

| Depth (m) | Area (m <sup>2</sup> ) | Inf. Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | Inf. Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------------------------|-----------|------------------------|-----------------------------|
| 0.000     | 225.0                  | 225.0                       | 0.800     | 0.0                    | 267.0                       |
| 0.700     | 225.0                  | 267.0                       |           |                        |                             |

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| SLR Consulting Ltd                                         |                                                       | Page 7                                                                              |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH | Middleton-on-Sea<br>Surface Water Drainage<br>Network |  |
| Date 20/08/2020                                            | Designed by MC                                        |                                                                                     |
| File 201028 402.06594.00008....                            | Checked by                                            |                                                                                     |
| Innovyze                                                   | Network 2019.1                                        |                                                                                     |

**2 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for Storm**

Simulation Criteria

|                                 |       |                                            |       |
|---------------------------------|-------|--------------------------------------------|-------|
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow          | 0.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m <sup>3</sup> /ha Storage | 2.000 |
| Hot Start Level (mm)            | 0     | Inlet Coefficient                          | 0.800 |
| Manhole Headloss Coeff (Global) | 0.500 | Flow per Person per Day (l/per/day)        | 0.000 |
| Foul Sewage per hectare (l/s)   | 0.000 |                                            |       |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 1 |
| Number of Online Controls   | 1 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                      |                  |             |       |
|----------------------|------------------|-------------|-------|
| Rainfall Model       | FEH              | Data Type   | Point |
| FEH Rainfall Version | 2013 Cv          | (Summer)    | 0.750 |
| Site Location        | GB 497381 100755 | Cv (Winter) | 0.840 |

|                                    |       |                |     |
|------------------------------------|-------|----------------|-----|
| Margin for Flood Risk Warning (mm) | 300.0 | DVD Status     | OFF |
| Analysis Timestep                  | Fine  | Inertia Status | OFF |
| DTS Status                         | ON    |                |     |

|                          |                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------|
| Profile(s)               | Summer and Winter                                                                               |
| Duration(s) (mins)       | 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |
| Return Period(s) (years) | 2, 30, 100                                                                                      |
| Climate Change (%)       | 0, 0, 40                                                                                        |

| PN    | US/MH Name | Storm     | Return Period | Climate Change | First (X) Surge | First (Y) Flood | First (Z) Overflow | Overflow Act. | Water Level (m) |
|-------|------------|-----------|---------------|----------------|-----------------|-----------------|--------------------|---------------|-----------------|
| 1.000 | SW01       | 30 Summer | 2             | +0%            |                 |                 |                    |               | 4.817           |
| 1.001 | SW03       | 30 Summer | 2             | +0%            |                 |                 |                    |               | 4.704           |
| 1.002 | SW04       | 30 Summer | 2             | +0%            |                 |                 |                    |               | 4.651           |
| 1.003 | SW05       | 30 Summer | 2             | +0%            | 100/240         | Winter          |                    |               | 4.569           |
| 1.004 | SW06       | 30 Summer | 2             | +0%            | 100/180         | Winter          |                    |               | 4.537           |
| 2.000 | SW08       | 30 Summer | 2             | +0%            |                 |                 |                    |               | 4.727           |
| 1.005 | SW09       | 30 Summer | 2             | +0%            | 100/120         | Summer          |                    |               | 4.414           |
| 3.000 | SW19a      | 30 Summer | 2             | +0%            | 100/360         | Winter          |                    |               | 4.623           |
| 4.000 | SW19       | 30 Summer | 2             | +0%            | 100/120         | Winter          |                    |               | 4.470           |
| 5.000 | SW11       | 30 Summer | 2             | +0%            |                 |                 |                    |               | 4.570           |
| 5.001 | SW12       | 30 Summer | 2             | +0%            | 100/120         | Winter          |                    |               | 4.495           |
| 5.002 | SW13       | 30 Summer | 2             | +0%            | 100/120         | Winter          |                    |               | 4.462           |
| 5.003 | SW15       | 30 Summer | 2             | +0%            | 100/60          | Summer          |                    |               | 4.406           |
| 1.006 | SW10       | 30 Summer | 2             | +0%            | 100/60          | Summer          |                    |               | 4.370           |
| 6.000 | SW27       | 30 Summer | 2             | +0%            |                 |                 |                    |               | 4.726           |
| 7.000 | SW29       | 30 Summer | 2             | +0%            |                 |                 |                    |               | 4.867           |
| 7.001 | SW31       | 30 Summer | 2             | +0%            |                 |                 |                    |               | 4.802           |
| 6.001 | SW28       | 30 Summer | 2             | +0%            |                 |                 |                    |               | 4.662           |
| 6.002 | SW32       | 30 Summer | 2             | +0%            | 100/120         | Winter          |                    |               | 4.505           |

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| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH                                            |    |  | Middleton-on-Sea<br>Surface Water Drainage<br>Network |  |  |  |  |
| Date 20/08/2020                                                                                       |    |  | Designed by MC                                        |  |  |                                                                                     |  |
| File 201028 402.06594.00008....                                                                       |    |  | Checked by                                            |  |  |                                                                                     |  |
| Innovyze                                                                                              |    |  | Network 2019.1                                        |  |  |                                                                                     |  |
| <u>2 year Return Period Summary of Critical Results by Maximum Level (Rank 1)</u><br><u>for Storm</u> |    |  |                                                       |  |  |                                                                                     |  |
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| SLR Consulting Ltd                                                                      |               |                       |                            |                                                       |                                    |                       | Page 9                                                                              |                   |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH                              |               |                       |                            | Middleton-on-Sea<br>Surface Water Drainage<br>Network |                                    |                       |  |                   |
| Date 20/08/2020                                                                         |               |                       |                            | Designed by MC                                        |                                    |                       |                                                                                     |                   |
| File 201028 402.06594.00008....                                                         |               |                       |                            | Checked by                                            |                                    |                       |                                                                                     |                   |
| Innovyze                                                                                |               |                       |                            | Network 2019.1                                        |                                    |                       |                                                                                     |                   |
| 2 year Return Period Summary of Critical Results by Maximum Level (Rank 1)<br>for Storm |               |                       |                            |                                                       |                                    |                       |                                                                                     |                   |
| PN                                                                                      | US/MH<br>Name | Storm                 | Return<br>Period           | Climate<br>Change                                     | First (X)<br>Surcharge             | First (Y)<br>Flood    | First (Z)<br>Overflow                                                               | Overflow<br>Act.  |
| 8.000                                                                                   | SW36          | 30 Summer             | 2                          | +0%                                                   | 100/180 Winter                     |                       |                                                                                     |                   |
| 9.000                                                                                   | SW37          | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 9.001                                                                                   | SW38          | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 9.002                                                                                   | SW39          | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 9.003                                                                                   | SW41          | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 6.003                                                                                   | SW33          | 30 Summer             | 2                          | +0%                                                   | 100/60 Winter                      |                       |                                                                                     |                   |
| 10.000                                                                                  | SW43          | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 10.001                                                                                  | SW44          | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 10.002                                                                                  | SW45          | 30 Summer             | 2                          | +0%                                                   | 100/360 Winter                     |                       |                                                                                     |                   |
| 6.004                                                                                   | SW42          | 600 Winter            | 2                          | +0%                                                   | 30/180 Winter                      |                       |                                                                                     |                   |
| 11.000                                                                                  | SW55          | 30 Summer             | 2                          | +0%                                                   | 100/60 Winter                      |                       |                                                                                     |                   |
| 12.000                                                                                  | SW50          | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 12.001                                                                                  | SW51          | 30 Summer             | 2                          | +0%                                                   | 100/360 Winter                     |                       |                                                                                     |                   |
| 12.002                                                                                  | SW52          | 30 Summer             | 2                          | +0%                                                   | 100/180 Winter                     |                       |                                                                                     |                   |
| 13.000                                                                                  | SW53          | 30 Summer             | 2                          | +0%                                                   | 100/180 Winter                     |                       |                                                                                     |                   |
| 12.003                                                                                  | SW54          | 600 Winter            | 2                          | +0%                                                   | 100/30 Winter                      |                       |                                                                                     |                   |
| 14.000                                                                                  | SW46          | 30 Summer             | 2                          | +0%                                                   | 100/240 Winter                     |                       |                                                                                     |                   |
| 14.001                                                                                  | SW47          | 30 Summer             | 2                          | +0%                                                   | 100/120 Summer                     |                       |                                                                                     |                   |
| 14.002                                                                                  | SW48          | 30 Summer             | 2                          | +0%                                                   | 100/60 Summer                      |                       |                                                                                     |                   |
| 14.003                                                                                  | SW49          | 600 Winter            | 2                          | +0%                                                   | 30/120 Winter                      |                       |                                                                                     |                   |
| 15.000                                                                                  | SW20          | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 15.001                                                                                  | SW21          | 30 Summer             | 2                          | +0%                                                   | 100/180 Winter                     |                       |                                                                                     |                   |
| 15.002                                                                                  | SW22          | 30 Summer             | 2                          | +0%                                                   | 100/120 Summer                     |                       |                                                                                     |                   |
| 15.003                                                                                  | SW24          | 30 Summer             | 2                          | +0%                                                   | 100/60 Summer                      |                       |                                                                                     |                   |
| 15.004                                                                                  | SW25          | 600 Winter            | 2                          | +0%                                                   | 30/180 Winter                      |                       |                                                                                     |                   |
| 16.000                                                                                  | swale         | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 16.001                                                                                  | swale of      | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 17.000                                                                                  | swale2        | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 17.001                                                                                  | swale 2 of    | 30 Summer             | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
| 1.007                                                                                   | crate         | 600 Winter            | 2                          | +0%                                                   | 30/120 Winter                      |                       |                                                                                     |                   |
| 1.008                                                                                   | SW58          | 600 Winter            | 2                          | +0%                                                   |                                    |                       |                                                                                     |                   |
|                                                                                         |               |                       |                            |                                                       |                                    |                       |                                                                                     |                   |
| PN                                                                                      | US/MH<br>Name | Water<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Flooded<br>Volume<br>(m³)                             | Pipe<br>Flow /<br>Overflow<br>Cap. | Pipe<br>Flow<br>(l/s) | Status                                                                              | Level<br>Exceeded |
| 8.000                                                                                   | SW36          | 4.539                 | -0.126                     | 0.000                                                 | 0.06                               | 1.0                   | OK                                                                                  |                   |
| 9.000                                                                                   | SW37          | 4.856                 | -0.144                     | 0.000                                                 | 0.01                               | 0.1                   | OK                                                                                  |                   |
| 9.001                                                                                   | SW38          | 4.736                 | -0.134                     | 0.000                                                 | 0.03                               | 0.4                   | OK                                                                                  |                   |
| 9.002                                                                                   | SW39          | 4.680                 | -0.132                     | 0.000                                                 | 0.03                               | 0.5                   | OK                                                                                  |                   |
| 9.003                                                                                   | SW41          | 4.544                 | -0.193                     | 0.000                                                 | 0.05                               | 2.4                   | OK                                                                                  |                   |
| 6.003                                                                                   | SW33          | 4.391                 | -0.170                     | 0.000                                                 | 0.14                               | 6.2                   | OK                                                                                  |                   |
| 10.000                                                                                  | SW43          | 4.664                 | -0.142                     | 0.000                                                 | 0.01                               | 0.1                   | OK                                                                                  |                   |
| 10.001                                                                                  | SW44          | 4.592                 | -0.129                     | 0.000                                                 | 0.05                               | 0.5                   | OK                                                                                  |                   |
| 10.002                                                                                  | SW45          | 4.555                 | -0.136                     | 0.000                                                 | 0.02                               | 0.5                   | OK                                                                                  |                   |
| 6.004                                                                                   | SW42          | 4.362                 | -0.092                     | 0.000                                                 | 0.04                               | 1.0                   | OK                                                                                  |                   |
| 11.000                                                                                  | SW55          | 4.414                 | -0.128                     | 0.000                                                 | 0.05                               | 0.7                   | OK                                                                                  |                   |
| ©1982-2019 Innovyze                                                                     |               |                       |                            |                                                       |                                    |                       |                                                                                     |                   |

| SLR Consulting Ltd                                                                                    |               |                       |                            |                                                       |                |                   | Page 10                                                                             |             |                   |
|-------------------------------------------------------------------------------------------------------|---------------|-----------------------|----------------------------|-------------------------------------------------------|----------------|-------------------|-------------------------------------------------------------------------------------|-------------|-------------------|
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH                                            |               |                       |                            | Middleton-on-Sea<br>Surface Water Drainage<br>Network |                |                   |  |             |                   |
| Date 20/08/2020                                                                                       |               |                       |                            | Designed by MC                                        |                |                   |                                                                                     |             |                   |
| File 201028 402.06594.00008....                                                                       |               |                       |                            | Checked by                                            |                |                   |                                                                                     |             |                   |
| Innovyze                                                                                              |               |                       |                            | Network 2019.1                                        |                |                   |                                                                                     |             |                   |
| <u>2 year Return Period Summary of Critical Results by Maximum Level (Rank 1)</u><br><u>for Storm</u> |               |                       |                            |                                                       |                |                   |                                                                                     |             |                   |
| PN                                                                                                    | US/MH<br>Name | Water<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Flooded<br>Volume<br>(m³)                             | Flow /<br>Cap. | Overflow<br>(l/s) | Pipe<br>Flow<br>(l/s)                                                               | Status      | Level<br>Exceeded |
| 12.000                                                                                                | SW50          | 4.790                 | -0.135                     | 0.000                                                 | 0.02           |                   | 0.3                                                                                 | OK          |                   |
| 12.001                                                                                                | SW51          | 4.573                 | -0.127                     | 0.000                                                 | 0.05           |                   | 0.7                                                                                 | OK          |                   |
| 12.002                                                                                                | SW52          | 4.535                 | -0.126                     | 0.000                                                 | 0.06           |                   | 1.3                                                                                 | OK          |                   |
| 13.000                                                                                                | SW53          | 4.566                 | -0.084                     | 0.000                                                 | 0.06           |                   | 0.6                                                                                 | OK          |                   |
| 12.003                                                                                                | SW54          | 4.362                 | -0.119                     | 0.000                                                 | 0.01           |                   | 0.3                                                                                 | OK          |                   |
| 14.000                                                                                                | SW46          | 4.558                 | -0.125                     | 0.000                                                 | 0.07           |                   | 0.9                                                                                 | OK          |                   |
| 14.001                                                                                                | SW47          | 4.464                 | -0.121                     | 0.000                                                 | 0.08           |                   | 1.1                                                                                 | OK          |                   |
| 14.002                                                                                                | SW48          | 4.383                 | -0.117                     | 0.000                                                 | 0.11           |                   | 1.3                                                                                 | OK          |                   |
| 14.003                                                                                                | SW49          | 4.362                 | -0.086                     | 0.000                                                 | 0.02           |                   | 0.2                                                                                 | OK          |                   |
| 15.000                                                                                                | SW20          | 4.579                 | -0.132                     | 0.000                                                 | 0.03           |                   | 0.4                                                                                 | OK          |                   |
| 15.001                                                                                                | SW21          | 4.518                 | -0.130                     | 0.000                                                 | 0.04           |                   | 0.6                                                                                 | OK          |                   |
| 15.002                                                                                                | SW22          | 4.477                 | -0.112                     | 0.000                                                 | 0.14           |                   | 1.8                                                                                 | OK          |                   |
| 15.003                                                                                                | SW24          | 4.425                 | -0.102                     | 0.000                                                 | 0.23           |                   | 2.9                                                                                 | OK          |                   |
| 15.004                                                                                                | SW25          | 4.362                 | -0.097                     | 0.000                                                 | 0.04           |                   | 0.5                                                                                 | OK          |                   |
| 16.000                                                                                                | swale         | 5.017                 | -0.308                     | 0.000                                                 | 0.01           |                   | 4.5                                                                                 | OK          |                   |
| 16.001                                                                                                | swale of      | 4.743                 | -0.692                     | 0.000                                                 | 0.00           |                   | 4.5                                                                                 | OK          |                   |
| 17.000                                                                                                | swale2        | 5.043                 | -0.282                     | 0.000                                                 | 0.03           |                   | 10.6                                                                                | FLOOD RISK* |                   |
| 17.001                                                                                                | swale 2 of    | 4.532                 | -0.903                     | 0.000                                                 | 0.00           |                   | 10.6                                                                                | OK          |                   |
| 1.007                                                                                                 | crate         | 4.362                 | -0.063                     | 0.000                                                 | 0.15           |                   | 1.5                                                                                 | OK          |                   |
| 1.008                                                                                                 | SW58          | 4.286                 | -0.114                     | 0.000                                                 | 0.13           |                   | 1.5                                                                                 | OK          |                   |
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|                                                                                                                    |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
|--------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-----------------|-----------------|--------------------|---------------|-----------|
| SLR Consulting Ltd                                                                                                 |       |                                                       | Page 11       |                                                                                     |                 |                 |                    |               |           |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH                                                         |       | Middleton-on-Sea<br>Surface Water Drainage<br>Network |               |  |                 |                 |                    |               |           |
| Date 20/08/2020                                                                                                    |       | Designed by MC                                        |               |                                                                                     |                 |                 |                    |               |           |
| File 201028 402.06594.00008....                                                                                    |       | Checked by                                            |               |                                                                                     |                 |                 |                    |               |           |
| Innovyze                                                                                                           |       | Network 2019.1                                        |               |                                                                                     |                 |                 |                    |               |           |
| 30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)<br>for Storm                           |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Simulation Criteria                                                                                                |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000                                               |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000                                                             |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Hot Start Level (mm) 0 Inlet Coefficient 0.800                                                                     |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000                                    |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Foul Sewage per hectare (l/s) 0.000                                                                                |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Number of Input Hydrographs 0 Number of Storage Structures 1                                                       |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Number of Online Controls 1 Number of Time/Area Diagrams 0                                                         |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Number of Offline Controls 0 Number of Real Time Controls 0                                                        |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Synthetic Rainfall Details                                                                                         |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Rainfall Model FEH Data Type Point                                                                                 |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| FEH Rainfall Version 2013 Cv (Summer) 0.750                                                                        |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Site Location GB 497381 100755 Cv (Winter) 0.840                                                                   |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF                                                            |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Analysis Timestep Fine Inertia Status OFF                                                                          |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| DTS Status ON                                                                                                      |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Profile(s) Summer and Winter                                                                                       |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Duration(s) (mins) 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Return Period(s) (years) 2, 30, 100                                                                                |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Climate Change (%) 0, 0, 40                                                                                        |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| Water                                                                                                              |       |                                                       |               |                                                                                     |                 |                 |                    |               |           |
| PN                                                                                                                 | US/MH | Storm                                                 | Return Period | Climate Change                                                                      | First (X) Surge | First (Y) Flood | First (Z) Overflow | Overflow Act. | Level (m) |
| 1.000                                                                                                              | SW01  | 30 Summer                                             | 30            | +0%                                                                                 |                 |                 |                    |               | 4.830     |
| 1.001                                                                                                              | SW03  | 30 Summer                                             | 30            | +0%                                                                                 |                 |                 |                    |               | 4.723     |
| 1.002                                                                                                              | SW04  | 30 Summer                                             | 30            | +0%                                                                                 |                 |                 |                    |               | 4.672     |
| 1.003                                                                                                              | SW05  | 30 Summer                                             | 30            | +0%                                                                                 | 100/240 Winter  |                 |                    |               | 4.596     |
| 1.004                                                                                                              | SW06  | 30 Summer                                             | 30            | +0%                                                                                 | 100/180 Winter  |                 |                    |               | 4.563     |
| 2.000                                                                                                              | SW08  | 30 Summer                                             | 30            | +0%                                                                                 |                 |                 |                    |               | 4.740     |
| 1.005                                                                                                              | SW09  | 360 Winter                                            | 30            | +0%                                                                                 | 100/120 Summer  |                 |                    |               | 4.475     |
| 3.000                                                                                                              | SW19a | 30 Summer                                             | 30            | +0%                                                                                 | 100/360 Winter  |                 |                    |               | 4.635     |
| 4.000                                                                                                              | SW19  | 30 Summer                                             | 30            | +0%                                                                                 | 100/120 Winter  |                 |                    |               | 4.480     |
| 5.000                                                                                                              | SW11  | 30 Summer                                             | 30            | +0%                                                                                 |                 |                 |                    |               | 4.576     |
| 5.001                                                                                                              | SW12  | 30 Summer                                             | 30            | +0%                                                                                 | 100/120 Winter  |                 |                    |               | 4.508     |
| 5.002                                                                                                              | SW13  | 30 Summer                                             | 30            | +0%                                                                                 | 100/120 Winter  |                 |                    |               | 4.475     |
| 5.003                                                                                                              | SW15  | 360 Winter                                            | 30            | +0%                                                                                 | 100/60 Summer   |                 |                    |               | 4.474     |
| 1.006                                                                                                              | SW10  | 360 Winter                                            | 30            | +0%                                                                                 | 100/60 Summer   |                 |                    |               | 4.475     |
| 6.000                                                                                                              | SW27  | 30 Summer                                             | 30            | +0%                                                                                 |                 |                 |                    |               | 4.739     |
| 7.000                                                                                                              | SW29  | 30 Summer                                             | 30            | +0%                                                                                 |                 |                 |                    |               | 4.875     |
| 7.001                                                                                                              | SW31  | 30 Summer                                             | 30            | +0%                                                                                 |                 |                 |                    |               | 4.815     |
| 6.001                                                                                                              | SW28  | 30 Summer                                             | 30            | +0%                                                                                 |                 |                 |                    |               | 4.682     |
| 6.002                                                                                                              | SW32  | 30 Summer                                             | 30            | +0%                                                                                 | 100/120 Winter  |                 |                    |               | 4.536     |
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|                                                            |                                                       |                                                                                     |
|------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|
| SLR Consulting Ltd                                         |                                                       | Page 12                                                                             |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH | Middleton-on-Sea<br>Surface Water Drainage<br>Network |  |
| Date 20/08/2020                                            | Designed by MC                                        |                                                                                     |
| File 201028 402.06594.00008....                            | Checked by                                            |                                                                                     |
| Innovyze                                                   | Network 2019.1                                        |                                                                                     |

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for Storm

| PN    | US/MH<br>Name | Surcharged Flooded |                             | Flow /<br>Cap. | Overflow<br>(l/s) | Pipe<br>Flow<br>(l/s) | Status | Level<br>Exceeded |
|-------|---------------|--------------------|-----------------------------|----------------|-------------------|-----------------------|--------|-------------------|
|       |               | Depth<br>(m)       | Volume<br>(m <sup>3</sup> ) |                |                   |                       |        |                   |
| 1.000 | SW01          | -0.110             | 0.000                       | 0.16           |                   | 2.2                   | OK     |                   |
| 1.001 | SW03          | -0.096             | 0.000                       | 0.28           |                   | 3.5                   | OK     |                   |
| 1.002 | SW04          | -0.093             | 0.000                       | 0.31           |                   | 4.1                   | OK     |                   |
| 1.003 | SW05          | -0.079             | 0.000                       | 0.45           |                   | 5.0                   | OK     |                   |
| 1.004 | SW06          | -0.082             | 0.000                       | 0.42           |                   | 5.3                   | OK     |                   |
| 2.000 | SW08          | -0.062             | 0.000                       | 0.31           |                   | 2.5                   | OK     |                   |
| 1.005 | SW09          | -0.114             | 0.000                       | 0.04           |                   | 1.3                   | OK     |                   |
| 3.000 | SW19a         | -0.065             | 0.000                       | 0.27           |                   | 1.9                   | OK     |                   |
| 4.000 | SW19          | -0.120             | 0.000                       | 0.09           |                   | 1.6                   | OK     |                   |
| 5.000 | SW11          | -0.129             | 0.000                       | 0.05           |                   | 0.6                   | OK     |                   |
| 5.001 | SW12          | -0.117             | 0.000                       | 0.11           |                   | 1.3                   | OK     |                   |
| 5.002 | SW13          | -0.115             | 0.000                       | 0.13           |                   | 1.6                   | OK     |                   |
| 5.003 | SW15          | -0.061             | 0.000                       | 0.02           |                   | 0.3                   | OK     |                   |
| 1.006 | SW10          | -0.050             | 0.000                       | 0.08           |                   | 2.0                   | OK     |                   |
| 6.000 | SW27          | -0.111             | 0.000                       | 0.15           |                   | 2.2                   | OK     |                   |
| 7.000 | SW29          | -0.125             | 0.000                       | 0.07           |                   | 0.9                   | OK     |                   |
| 7.001 | SW31          | -0.115             | 0.000                       | 0.12           |                   | 2.6                   | OK     |                   |
| 6.001 | SW28          | -0.095             | 0.000                       | 0.29           |                   | 5.1                   | OK     |                   |
| 6.002 | SW32          | -0.070             | 0.000                       | 0.55           |                   | 6.7                   | OK     |                   |

|                                                                                          |               |                       |                            |                                                       |                                    |                       |                                                                                     |                   |
|------------------------------------------------------------------------------------------|---------------|-----------------------|----------------------------|-------------------------------------------------------|------------------------------------|-----------------------|-------------------------------------------------------------------------------------|-------------------|
| SLR Consulting Ltd                                                                       |               |                       |                            |                                                       |                                    |                       | Page 13                                                                             |                   |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH                               |               |                       |                            | Middleton-on-Sea<br>Surface Water Drainage<br>Network |                                    |                       |  |                   |
| Date 20/08/2020                                                                          |               |                       |                            | Designed by MC                                        |                                    |                       |                                                                                     |                   |
| File 201028 402.06594.00008....                                                          |               |                       |                            | Checked by                                            |                                    |                       |                                                                                     |                   |
| Innovyze                                                                                 |               |                       |                            | Network 2019.1                                        |                                    |                       |                                                                                     |                   |
| 30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)<br>for Storm |               |                       |                            |                                                       |                                    |                       |                                                                                     |                   |
| PN                                                                                       | US/MH<br>Name | Storm                 | Return<br>Period           | Climate<br>Change                                     | First (X)<br>Surcharge             | First (Y)<br>Flood    | First (Z)<br>Overflow                                                               | Overflow<br>Act.  |
| 8.000                                                                                    | SW36          | 30 Summer             | 30                         | +0%                                                   | 100/180 Winter                     |                       |                                                                                     |                   |
| 9.000                                                                                    | SW37          | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 9.001                                                                                    | SW38          | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 9.002                                                                                    | SW39          | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 9.003                                                                                    | SW41          | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 6.003                                                                                    | SW33          | 360 Winter            | 30                         | +0%                                                   | 100/60 Winter                      |                       |                                                                                     |                   |
| 10.000                                                                                   | SW43          | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 10.001                                                                                   | SW44          | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 10.002                                                                                   | SW45          | 30 Summer             | 30                         | +0%                                                   | 100/360 Winter                     |                       |                                                                                     |                   |
| 6.004                                                                                    | SW42          | 360 Winter            | 30                         | +0%                                                   | 30/180 Winter                      |                       |                                                                                     |                   |
| 11.000                                                                                   | SW55          | 360 Winter            | 30                         | +0%                                                   | 100/60 Winter                      |                       |                                                                                     |                   |
| 12.000                                                                                   | SW50          | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 12.001                                                                                   | SW51          | 30 Summer             | 30                         | +0%                                                   | 100/360 Winter                     |                       |                                                                                     |                   |
| 12.002                                                                                   | SW52          | 30 Summer             | 30                         | +0%                                                   | 100/180 Winter                     |                       |                                                                                     |                   |
| 13.000                                                                                   | SW53          | 30 Summer             | 30                         | +0%                                                   | 100/180 Winter                     |                       |                                                                                     |                   |
| 12.003                                                                                   | SW54          | 360 Winter            | 30                         | +0%                                                   | 100/30 Winter                      |                       |                                                                                     |                   |
| 14.000                                                                                   | SW46          | 30 Summer             | 30                         | +0%                                                   | 100/240 Winter                     |                       |                                                                                     |                   |
| 14.001                                                                                   | SW47          | 30 Summer             | 30                         | +0%                                                   | 100/120 Summer                     |                       |                                                                                     |                   |
| 14.002                                                                                   | SW48          | 360 Winter            | 30                         | +0%                                                   | 100/60 Summer                      |                       |                                                                                     |                   |
| 14.003                                                                                   | SW49          | 360 Winter            | 30                         | +0%                                                   | 30/120 Winter                      |                       |                                                                                     |                   |
| 15.000                                                                                   | SW20          | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 15.001                                                                                   | SW21          | 30 Summer             | 30                         | +0%                                                   | 100/180 Winter                     |                       |                                                                                     |                   |
| 15.002                                                                                   | SW22          | 30 Summer             | 30                         | +0%                                                   | 100/120 Summer                     |                       |                                                                                     |                   |
| 15.003                                                                                   | SW24          | 360 Winter            | 30                         | +0%                                                   | 100/60 Summer                      |                       |                                                                                     |                   |
| 15.004                                                                                   | SW25          | 360 Winter            | 30                         | +0%                                                   | 30/180 Winter                      |                       |                                                                                     |                   |
| 16.000                                                                                   | swale         | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 16.001                                                                                   | swale of      | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 17.000                                                                                   | swale2        | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 17.001                                                                                   | swale 2 of    | 30 Summer             | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
| 1.007                                                                                    | crate         | 360 Winter            | 30                         | +0%                                                   | 30/120 Winter                      |                       |                                                                                     |                   |
| 1.008                                                                                    | SW58          | 360 Winter            | 30                         | +0%                                                   |                                    |                       |                                                                                     |                   |
|                                                                                          |               |                       |                            |                                                       |                                    |                       |                                                                                     |                   |
| PN                                                                                       | US/MH<br>Name | Water<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Flooded<br>Volume<br>(m³)                             | Pipe<br>Flow /<br>Overflow<br>Cap. | Pipe<br>Flow<br>(l/s) | Status                                                                              | Level<br>Exceeded |
| 8.000                                                                                    | SW36          | 4.551                 | -0.114                     | 0.000                                                 | 0.13                               | 2.2                   | OK                                                                                  |                   |
| 9.000                                                                                    | SW37          | 4.864                 | -0.136                     | 0.000                                                 | 0.02                               | 0.3                   | OK                                                                                  |                   |
| 9.001                                                                                    | SW38          | 4.745                 | -0.125                     | 0.000                                                 | 0.06                               | 1.0                   | OK                                                                                  |                   |
| 9.002                                                                                    | SW39          | 4.690                 | -0.122                     | 0.000                                                 | 0.08                               | 1.3                   | OK                                                                                  |                   |
| 9.003                                                                                    | SW41          | 4.566                 | -0.171                     | 0.000                                                 | 0.13                               | 6.2                   | OK                                                                                  |                   |
| 6.003                                                                                    | SW33          | 4.475                 | -0.086                     | 0.000                                                 | 0.05                               | 2.4                   | OK                                                                                  |                   |
| 10.000                                                                                   | SW43          | 4.672                 | -0.134                     | 0.000                                                 | 0.02                               | 0.3                   | OK                                                                                  |                   |
| 10.001                                                                                   | SW44          | 4.605                 | -0.116                     | 0.000                                                 | 0.12                               | 1.3                   | OK                                                                                  |                   |
| 10.002                                                                                   | SW45          | 4.563                 | -0.128                     | 0.000                                                 | 0.05                               | 1.3                   | OK                                                                                  |                   |
| 6.004                                                                                    | SW42          | 4.475                 | 0.021                      | 0.000                                                 | 0.09                               | 2.5                   | SURCHARGED                                                                          |                   |
| 11.000                                                                                   | SW55          | 4.474                 | -0.068                     | 0.000                                                 | 0.02                               | 0.3                   | OK                                                                                  |                   |
| ©1982-2019 Innovyze                                                                      |               |                       |                            |                                                       |                                    |                       |                                                                                     |                   |

|                                                                                          |               |                    |                         |                                                       |                |                   |                                                                                     |             |                   |
|------------------------------------------------------------------------------------------|---------------|--------------------|-------------------------|-------------------------------------------------------|----------------|-------------------|-------------------------------------------------------------------------------------|-------------|-------------------|
| SLR Consulting Ltd                                                                       |               |                    |                         |                                                       |                |                   | Page 14                                                                             |             |                   |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH                               |               |                    |                         | Middleton-on-Sea<br>Surface Water Drainage<br>Network |                |                   |  |             |                   |
| Date 20/08/2020                                                                          |               |                    |                         | Designed by MC                                        |                |                   |                                                                                     |             |                   |
| File 201028 402.06594.00008....                                                          |               |                    |                         | Checked by                                            |                |                   |                                                                                     |             |                   |
| Innovyze                                                                                 |               |                    |                         | Network 2019.1                                        |                |                   |                                                                                     |             |                   |
| 30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)<br>for Storm |               |                    |                         |                                                       |                |                   |                                                                                     |             |                   |
| PN                                                                                       | US/MH<br>Name | Water Level<br>(m) | Surcharged Depth<br>(m) | Flooded Volume<br>(m³)                                | Flow /<br>Cap. | Overflow<br>(l/s) | Pipe<br>Flow<br>(l/s)                                                               | Status      | Level<br>Exceeded |
| 12.000                                                                                   | SW50          | 4.796              | -0.129                  | 0.000                                                 | 0.05           |                   | 0.6                                                                                 | OK          |                   |
| 12.001                                                                                   | SW51          | 4.587              | -0.113                  | 0.000                                                 | 0.13           |                   | 1.6                                                                                 | OK          |                   |
| 12.002                                                                                   | SW52          | 4.551              | -0.110                  | 0.000                                                 | 0.15           |                   | 3.3                                                                                 | OK          |                   |
| 13.000                                                                                   | SW53          | 4.574              | -0.076                  | 0.000                                                 | 0.13           |                   | 1.3                                                                                 | OK          |                   |
| 12.003                                                                                   | SW54          | 4.474              | -0.007                  | 0.000                                                 | 0.02           |                   | 0.7                                                                                 | OK          |                   |
| 14.000                                                                                   | SW46          | 4.570              | -0.113                  | 0.000                                                 | 0.14           |                   | 1.9                                                                                 | OK          |                   |
| 14.001                                                                                   | SW47          | 4.479              | -0.106                  | 0.000                                                 | 0.19           |                   | 2.5                                                                                 | OK          |                   |
| 14.002                                                                                   | SW48          | 4.475              | -0.025                  | 0.000                                                 | 0.04           |                   | 0.5                                                                                 | OK          |                   |
| 14.003                                                                                   | SW49          | 4.474              | 0.026                   | 0.000                                                 | 0.04           |                   | 0.4                                                                                 | SURCHARGED  |                   |
| 15.000                                                                                   | SW20          | 4.588              | -0.123                  | 0.000                                                 | 0.07           |                   | 0.9                                                                                 | OK          |                   |
| 15.001                                                                                   | SW21          | 4.530              | -0.118                  | 0.000                                                 | 0.10           |                   | 1.3                                                                                 | OK          |                   |
| 15.002                                                                                   | SW22          | 4.501              | -0.088                  | 0.000                                                 | 0.35           |                   | 4.5                                                                                 | OK          |                   |
| 15.003                                                                                   | SW24          | 4.475              | -0.052                  | 0.000                                                 | 0.09           |                   | 1.2                                                                                 | OK          |                   |
| 15.004                                                                                   | SW25          | 4.475              | 0.016                   | 0.000                                                 | 0.10           |                   | 1.1                                                                                 | SURCHARGED  |                   |
| 16.000                                                                                   | swale         | 5.040              | -0.285                  | 0.000                                                 | 0.03           |                   | 9.6                                                                                 | FLOOD RISK* |                   |
| 16.001                                                                                   | swale of      | 4.756              | -0.679                  | 0.000                                                 | 0.00           |                   | 9.6                                                                                 | OK          |                   |
| 17.000                                                                                   | swale2        | 5.077              | -0.248                  | 0.000                                                 | 0.07           |                   | 22.9                                                                                | FLOOD RISK* |                   |
| 17.001                                                                                   | swale 2 of    | 4.552              | -0.883                  | 0.000                                                 | 0.00           |                   | 23.0                                                                                | OK          |                   |
| 1.007                                                                                    | crate         | 4.474              | 0.049                   | 0.000                                                 | 0.21           |                   | 2.1                                                                                 | SURCHARGED  |                   |
| 1.008                                                                                    | SW58          | 4.294              | -0.106                  | 0.000                                                 | 0.19           |                   | 2.1                                                                                 | OK          |                   |
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| SLR Consulting Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |            |        | Page 15                                               |                |           |           |                                                                                     |       |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
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| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |            |        | Middleton-on-Sea<br>Surface Water Drainage<br>Network |                |           |           |  |       |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| Date 20/08/2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |            |        | Designed by MC                                        |                |           |           |                                                                                     |       |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| File 201028 402.06594.00008....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |            |        | Checked by                                            |                |           |           |                                                                                     |       |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |            |        | Network 2019.1                                        |                |           |           |                                                                                     |       |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| <div>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</div> <div><div>Simulation Criteria</div><div><div>Areal Reduction Factor 1.000</div><div>Additional Flow - % of Total Flow 0.000</div><div>Hot Start (mins) 0</div><div>MADD Factor * 10m³/ha Storage 2.000</div><div>Hot Start Level (mm) 0</div><div>Inlet Coefficient 0.800</div><div>Manhole Headloss Coeff (Global) 0.500</div><div>Flow per Person per Day (l/per/day) 0.000</div><div>Foul Sewage per hectare (l/s) 0.000</div></div><div><div>Number of Input Hydrographs 0</div><div>Number of Storage Structures 1</div><div>Number of Online Controls 1</div><div>Number of Time/Area Diagrams 0</div><div>Number of Offline Controls 0</div><div>Number of Real Time Controls 0</div></div><div><div>Synthetic Rainfall Details</div><div><div>Rainfall Model FEH</div><div>Data Type Point</div><div>FEH Rainfall Version 2013 Cv (Summer) 0.750</div><div>Site Location GB 497381 100755 Cv (Winter) 0.840</div></div><div><div>Margin for Flood Risk Warning (mm) 300.0</div><div>DVD Status OFF</div><div>Analysis Timestep Fine</div><div>Inertia Status OFF</div><div>DTS Status ON</div></div><div><div>Profile(s) Summer and Winter</div><div>Duration(s) (mins) 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080</div><div>Return Period(s) (years) 2, 30, 100</div><div>Climate Change (%) 0, 0, 40</div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |            |        |                                                       |                |           |           |                                                                                     |       |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| <table><tr><th></th><th>US/MH</th><th></th><th>Return</th><th>Climate</th><th>First (X)</th><th>First (Y)</th><th>First (Z)</th><th>Overflow</th><th>Water</th></tr><tr><th>PN</th><th>Name</th><th>Storm</th><th>Period</th><th>Change</th><th>Surcharge</th><th>Flood</th><th>Overflow</th><th>Act.</th><th>Level</th></tr><tr><td>1.000</td><td>SW01</td><td>30 Summer</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td><td>4.845</td></tr><tr><td>1.001</td><td>SW03</td><td>30 Summer</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td><td>4.744</td></tr><tr><td>1.002</td><td>SW04</td><td>480 Winter</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td><td>4.705</td></tr><tr><td>1.003</td><td>SW05</td><td>480 Winter</td><td>100</td><td>+40%</td><td>100/240 Winter</td><td></td><td></td><td></td><td>4.704</td></tr><tr><td>1.004</td><td>SW06</td><td>480 Winter</td><td>100</td><td>+40%</td><td>100/180 Winter</td><td></td><td></td><td></td><td>4.704</td></tr><tr><td>2.000</td><td>SW08</td><td>30 Summer</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td><td>4.755</td></tr><tr><td>1.005</td><td>SW09</td><td>480 Winter</td><td>100</td><td>+40%</td><td>100/120 Summer</td><td></td><td></td><td></td><td>4.704</td></tr><tr><td>3.000</td><td>SW19a</td><td>480 Winter</td><td>100</td><td>+40%</td><td>100/360 Winter</td><td></td><td></td><td></td><td>4.704</td></tr><tr><td>4.000</td><td>SW19</td><td>480 Winter</td><td>100</td><td>+40%</td><td>100/120 Winter</td><td></td><td></td><td></td><td>4.703</td></tr><tr><td>5.000</td><td>SW11</td><td>480 Winter</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td><td>4.703</td></tr><tr><td>5.001</td><td>SW12</td><td>480 Winter</td><td>100</td><td>+40%</td><td>100/120 Winter</td><td></td><td></td><td></td><td>4.703</td></tr><tr><td>5.002</td><td>SW13</td><td>480 Winter</td><td>100</td><td>+40%</td><td>100/120 Winter</td><td></td><td></td><td></td><td>4.703</td></tr><tr><td>5.003</td><td>SW15</td><td>480 Winter</td><td>100</td><td>+40%</td><td>100/60 Summer</td><td></td><td></td><td></td><td>4.703</td></tr><tr><td>1.006</td><td>SW10</td><td>480 Winter</td><td>100</td><td>+40%</td><td>100/60 Summer</td><td></td><td></td><td></td><td>4.703</td></tr><tr><td>6.000</td><td>SW27</td><td>30 Summer</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td><td>4.752</td></tr><tr><td>7.000</td><td>SW29</td><td>30 Summer</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td><td>4.884</td></tr><tr><td>7.001</td><td>SW31</td><td>30 Summer</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td><td>4.828</td></tr><tr><td>6.001</td><td>SW28</td><td>480 Winter</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td><td>4.705</td></tr><tr><td>6.002</td><td>SW32</td><td>480 Winter</td><td>100</td><td>+40%</td><td>100/120 Winter</td><td></td><td></td><td></td><td>4.704</td></tr></table> |       |            |        |                                                       |                |           |           |                                                                                     |       | US/MH |  | Return | Climate | First (X) | First (Y) | First (Z) | Overflow | Water | PN | Name | Storm | Period | Change | Surcharge | Flood | Overflow | Act. | Level | 1.000 | SW01 | 30 Summer | 100 | +40% |  |  |  |  | 4.845 | 1.001 | SW03 | 30 Summer | 100 | +40% |  |  |  |  | 4.744 | 1.002 | SW04 | 480 Winter | 100 | +40% |  |  |  |  | 4.705 | 1.003 | SW05 | 480 Winter | 100 | +40% | 100/240 Winter |  |  |  | 4.704 | 1.004 | SW06 | 480 Winter | 100 | +40% | 100/180 Winter |  |  |  | 4.704 | 2.000 | SW08 | 30 Summer | 100 | +40% |  |  |  |  | 4.755 | 1.005 | SW09 | 480 Winter | 100 | +40% | 100/120 Summer |  |  |  | 4.704 | 3.000 | SW19a | 480 Winter | 100 | +40% | 100/360 Winter |  |  |  | 4.704 | 4.000 | SW19 | 480 Winter | 100 | +40% | 100/120 Winter |  |  |  | 4.703 | 5.000 | SW11 | 480 Winter | 100 | +40% |  |  |  |  | 4.703 | 5.001 | SW12 | 480 Winter | 100 | +40% | 100/120 Winter |  |  |  | 4.703 | 5.002 | SW13 | 480 Winter | 100 | +40% | 100/120 Winter |  |  |  | 4.703 | 5.003 | SW15 | 480 Winter | 100 | +40% | 100/60 Summer |  |  |  | 4.703 | 1.006 | SW10 | 480 Winter | 100 | +40% | 100/60 Summer |  |  |  | 4.703 | 6.000 | SW27 | 30 Summer | 100 | +40% |  |  |  |  | 4.752 | 7.000 | SW29 | 30 Summer | 100 | +40% |  |  |  |  | 4.884 | 7.001 | SW31 | 30 Summer | 100 | +40% |  |  |  |  | 4.828 | 6.001 | SW28 | 480 Winter | 100 | +40% |  |  |  |  | 4.705 | 6.002 | SW32 | 480 Winter | 100 | +40% | 100/120 Winter |  |  |  | 4.704 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | US/MH |            | Return | Climate                                               | First (X)      | First (Y) | First (Z) | Overflow                                                                            | Water |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Name  | Storm      | Period | Change                                                | Surcharge      | Flood     | Overflow  | Act.                                                                                | Level |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW01  | 30 Summer  | 100    | +40%                                                  |                |           |           |                                                                                     | 4.845 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 1.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW03  | 30 Summer  | 100    | +40%                                                  |                |           |           |                                                                                     | 4.744 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 1.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW04  | 480 Winter | 100    | +40%                                                  |                |           |           |                                                                                     | 4.705 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 1.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW05  | 480 Winter | 100    | +40%                                                  | 100/240 Winter |           |           |                                                                                     | 4.704 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 1.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW06  | 480 Winter | 100    | +40%                                                  | 100/180 Winter |           |           |                                                                                     | 4.704 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 2.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW08  | 30 Summer  | 100    | +40%                                                  |                |           |           |                                                                                     | 4.755 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 1.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW09  | 480 Winter | 100    | +40%                                                  | 100/120 Summer |           |           |                                                                                     | 4.704 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 3.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW19a | 480 Winter | 100    | +40%                                                  | 100/360 Winter |           |           |                                                                                     | 4.704 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 4.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW19  | 480 Winter | 100    | +40%                                                  | 100/120 Winter |           |           |                                                                                     | 4.703 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 5.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW11  | 480 Winter | 100    | +40%                                                  |                |           |           |                                                                                     | 4.703 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 5.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW12  | 480 Winter | 100    | +40%                                                  | 100/120 Winter |           |           |                                                                                     | 4.703 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 5.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW13  | 480 Winter | 100    | +40%                                                  | 100/120 Winter |           |           |                                                                                     | 4.703 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 5.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW15  | 480 Winter | 100    | +40%                                                  | 100/60 Summer  |           |           |                                                                                     | 4.703 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 1.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW10  | 480 Winter | 100    | +40%                                                  | 100/60 Summer  |           |           |                                                                                     | 4.703 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 6.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW27  | 30 Summer  | 100    | +40%                                                  |                |           |           |                                                                                     | 4.752 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 7.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW29  | 30 Summer  | 100    | +40%                                                  |                |           |           |                                                                                     | 4.884 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 7.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW31  | 30 Summer  | 100    | +40%                                                  |                |           |           |                                                                                     | 4.828 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 6.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW28  | 480 Winter | 100    | +40%                                                  |                |           |           |                                                                                     | 4.705 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| 6.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SW32  | 480 Winter | 100    | +40%                                                  | 100/120 Winter |           |           |                                                                                     | 4.704 |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |
| ©1982-2019 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |            |        |                                                       |                |           |           |                                                                                     |       |       |  |        |         |           |           |           |          |       |    |      |       |        |        |           |       |          |      |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |       |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |                |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |            |     |      |               |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |           |     |      |  |  |  |  |       |       |      |            |     |      |  |  |  |  |       |       |      |            |     |      |                |  |  |  |       |

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|------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|
| SLR Consulting Ltd                                         |                                                       | Page 16                                                                             |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH | Middleton-on-Sea<br>Surface Water Drainage<br>Network |  |
| Date 20/08/2020                                            | Designed by MC                                        |                                                                                     |
| File 201028 402.06594.00008....                            | Checked by                                            |                                                                                     |
| Innovyze                                                   | Network 2019.1                                        |                                                                                     |

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

| PN    | US/MH<br>Name | Surcharged Flooded |                             | Pipe                          |               | Status     | Level<br>Exceeded |
|-------|---------------|--------------------|-----------------------------|-------------------------------|---------------|------------|-------------------|
|       |               | Depth<br>(m)       | Volume<br>(m <sup>3</sup> ) | Flow / Overflow<br>Cap. (l/s) | Flow<br>(l/s) |            |                   |
| 1.000 | SW01          | -0.095             | 0.000                       | 0.29                          | 3.9           | OK         |                   |
| 1.001 | SW03          | -0.075             | 0.000                       | 0.49                          | 6.2           | OK         |                   |
| 1.002 | SW04          | -0.060             | 0.000                       | 0.07                          | 0.9           | OK         |                   |
| 1.003 | SW05          | 0.029              | 0.000                       | 0.10                          | 1.1           | SURCHARGED |                   |
| 1.004 | SW06          | 0.059              | 0.000                       | 0.09                          | 1.2           | SURCHARGED |                   |
| 2.000 | SW08          | -0.047             | 0.000                       | 0.56                          | 4.5           | OK         |                   |
| 1.005 | SW09          | 0.115              | 0.000                       | 0.06                          | 1.7           | SURCHARGED |                   |
| 3.000 | SW19a         | 0.004              | 0.000                       | 0.06                          | 0.4           | SURCHARGED |                   |
| 4.000 | SW19          | 0.103              | 0.000                       | 0.02                          | 0.3           | SURCHARGED |                   |
| 5.000 | SW11          | -0.002             | 0.000                       | 0.01                          | 0.1           | OK         |                   |
| 5.001 | SW12          | 0.078              | 0.000                       | 0.02                          | 0.3           | SURCHARGED |                   |
| 5.002 | SW13          | 0.113              | 0.000                       | 0.03                          | 0.3           | SURCHARGED |                   |
| 5.003 | SW15          | 0.168              | 0.000                       | 0.02                          | 0.3           | SURCHARGED |                   |
| 1.006 | SW10          | 0.178              | 0.000                       | 0.09                          | 2.3           | SURCHARGED |                   |
| 6.000 | SW27          | -0.098             | 0.000                       | 0.27                          | 3.9           | OK         |                   |
| 7.000 | SW29          | -0.116             | 0.000                       | 0.12                          | 1.7           | OK         |                   |
| 7.001 | SW31          | -0.102             | 0.000                       | 0.22                          | 4.6           | OK         |                   |
| 6.001 | SW28          | -0.072             | 0.000                       | 0.06                          | 1.1           | OK         |                   |
| 6.002 | SW32          | 0.098              | 0.000                       | 0.12                          | 1.4           | SURCHARGED |                   |

|                                                                                        |            |             |               |                                                       |                 |                 |                                                                                     |               |
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| SLR Consulting Ltd                                                                     |            |             |               |                                                       |                 | Page 17         |                                                                                     |               |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH                             |            |             |               | Middleton-on-Sea<br>Surface Water Drainage<br>Network |                 |                 |  |               |
| Date 20/08/2020                                                                        |            |             |               | Designed by MC                                        |                 |                 |                                                                                     |               |
| File 201028 402.06594.00008....                                                        |            |             |               | Checked by                                            |                 |                 |                                                                                     |               |
| Innovyze                                                                               |            |             |               | Network 2019.1                                        |                 |                 |                                                                                     |               |
| 100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm |            |             |               |                                                       |                 |                 |                                                                                     |               |
| PN                                                                                     | US/MH Name | Storm       | Return Period | Climate Change                                        | First (X) Surge | First (Y) Flood | First (Z) Overflow                                                                  | Overflow Act. |
| 8.000                                                                                  | SW36       | 480 Winter  | 100           | +40%                                                  | 100/180 Winter  |                 |                                                                                     |               |
| 9.000                                                                                  | SW37       | 30 Summer   | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 9.001                                                                                  | SW38       | 30 Summer   | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 9.002                                                                                  | SW39       | 480 Winter  | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 9.003                                                                                  | SW41       | 480 Winter  | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 6.003                                                                                  | SW33       | 480 Winter  | 100           | +40%                                                  | 100/60 Winter   |                 |                                                                                     |               |
| 10.000                                                                                 | SW43       | 480 Winter  | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 10.001                                                                                 | SW44       | 480 Winter  | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 10.002                                                                                 | SW45       | 480 Winter  | 100           | +40%                                                  | 100/360 Winter  |                 |                                                                                     |               |
| 6.004                                                                                  | SW42       | 480 Winter  | 100           | +40%                                                  | 30/180 Winter   |                 |                                                                                     |               |
| 11.000                                                                                 | SW55       | 480 Winter  | 100           | +40%                                                  | 100/60 Winter   |                 |                                                                                     |               |
| 12.000                                                                                 | SW50       | 30 Summer   | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 12.001                                                                                 | SW51       | 480 Winter  | 100           | +40%                                                  | 100/360 Winter  |                 |                                                                                     |               |
| 12.002                                                                                 | SW52       | 480 Winter  | 100           | +40%                                                  | 100/180 Winter  |                 |                                                                                     |               |
| 13.000                                                                                 | SW53       | 480 Winter  | 100           | +40%                                                  | 100/180 Winter  |                 |                                                                                     |               |
| 12.003                                                                                 | SW54       | 480 Winter  | 100           | +40%                                                  | 100/30 Winter   |                 |                                                                                     |               |
| 14.000                                                                                 | SW46       | 480 Winter  | 100           | +40%                                                  | 100/240 Winter  |                 |                                                                                     |               |
| 14.001                                                                                 | SW47       | 480 Winter  | 100           | +40%                                                  | 100/120 Summer  |                 |                                                                                     |               |
| 14.002                                                                                 | SW48       | 480 Winter  | 100           | +40%                                                  | 100/60 Summer   |                 |                                                                                     |               |
| 14.003                                                                                 | SW49       | 480 Winter  | 100           | +40%                                                  | 30/120 Winter   |                 |                                                                                     |               |
| 15.000                                                                                 | SW20       | 480 Winter  | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 15.001                                                                                 | SW21       | 480 Winter  | 100           | +40%                                                  | 100/180 Winter  |                 |                                                                                     |               |
| 15.002                                                                                 | SW22       | 480 Winter  | 100           | +40%                                                  | 100/120 Summer  |                 |                                                                                     |               |
| 15.003                                                                                 | SW24       | 480 Winter  | 100           | +40%                                                  | 100/60 Summer   |                 |                                                                                     |               |
| 15.004                                                                                 | SW25       | 480 Winter  | 100           | +40%                                                  | 30/180 Winter   |                 |                                                                                     |               |
| 16.000                                                                                 | swale      | 30 Summer   | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 16.001                                                                                 | swale of   | 30 Summer   | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 17.000                                                                                 | swale2     | 30 Summer   | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 17.001                                                                                 | swale 2 of | 480 Winter  | 100           | +40%                                                  |                 |                 |                                                                                     |               |
| 1.007                                                                                  | crate      | 480 Winter  | 100           | +40%                                                  | 30/120 Winter   |                 |                                                                                     |               |
| 1.008                                                                                  | SW58       | 1440 Summer | 100           | +40%                                                  |                 |                 |                                                                                     |               |
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| SLR Consulting Ltd                                         |                                                       | Page 18                                                                             |
| 4/5 Lochside View<br>Edinburgh Park<br>Edinburgh, EH12 9DH | Middleton-on-Sea<br>Surface Water Drainage<br>Network |  |
| Date 20/08/2020                                            | Designed by MC                                        |                                                                                     |
| File 201028 402.06594.00008....                            | Checked by                                            |                                                                                     |
| Innovyze                                                   | Network 2019.1                                        |                                                                                     |

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

| PN     | US/MH<br>Name | Water<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Flooded<br>Volume<br>(m <sup>3</sup> ) | Flow /<br>Cap.<br>(l/s) | Overflow<br>Flow<br>(l/s) | Pipe<br>Flow<br>(l/s) | Status      | Level<br>Exceeded |
|--------|---------------|-----------------------|----------------------------|----------------------------------------|-------------------------|---------------------------|-----------------------|-------------|-------------------|
| 12.000 | SW50          | 4.804                 | -0.121                     | 0.000                                  | 0.09                    |                           | 1.1                   | OK          |                   |
| 12.001 | SW51          | 4.703                 | 0.003                      | 0.000                                  | 0.03                    |                           | 0.4                   | SURCHARGED  |                   |
| 12.002 | SW52          | 4.703                 | 0.042                      | 0.000                                  | 0.03                    |                           | 0.7                   | SURCHARGED  |                   |
| 13.000 | SW53          | 4.703                 | 0.053                      | 0.000                                  | 0.03                    |                           | 0.3                   | SURCHARGED  |                   |
| 12.003 | SW54          | 4.703                 | 0.222                      | 0.000                                  | 0.03                    |                           | 0.9                   | SURCHARGED  |                   |
| 14.000 | SW46          | 4.703                 | 0.020                      | 0.000                                  | 0.03                    |                           | 0.4                   | SURCHARGED  |                   |
| 14.001 | SW47          | 4.704                 | 0.119                      | 0.000                                  | 0.04                    |                           | 0.5                   | SURCHARGED  |                   |
| 14.002 | SW48          | 4.703                 | 0.203                      | 0.000                                  | 0.04                    |                           | 0.6                   | SURCHARGED  |                   |
| 14.003 | SW49          | 4.703                 | 0.255                      | 0.000                                  | 0.04                    |                           | 0.5                   | SURCHARGED  |                   |
| 15.000 | SW20          | 4.704                 | -0.007                     | 0.000                                  | 0.02                    |                           | 0.2                   | OK          |                   |
| 15.001 | SW21          | 4.704                 | 0.056                      | 0.000                                  | 0.02                    |                           | 0.3                   | SURCHARGED  |                   |
| 15.002 | SW22          | 4.705                 | 0.116                      | 0.000                                  | 0.07                    |                           | 0.9                   | SURCHARGED  |                   |
| 15.003 | SW24          | 4.704                 | 0.177                      | 0.000                                  | 0.11                    |                           | 1.4                   | SURCHARGED  |                   |
| 15.004 | SW25          | 4.704                 | 0.245                      | 0.000                                  | 0.12                    |                           | 1.4                   | SURCHARGED  |                   |
| 16.000 | swale         | 5.062                 | -0.263                     | 0.000                                  | 0.05                    |                           | 16.9                  | FLOOD RISK* |                   |
| 16.001 | swale of      | 4.769                 | -0.666                     | 0.000                                  | 0.00                    |                           | 16.9                  | OK          |                   |
| 17.000 | swale2        | 5.110                 | -0.215                     | 0.000                                  | 0.12                    |                           | 40.5                  | FLOOD RISK* |                   |
| 17.001 | swale 2 of    | 4.703                 | -0.732                     | 0.000                                  | 0.00                    |                           | 5.1                   | OK          |                   |
| 1.007  | crate         | 4.703                 | 0.278                      | 0.000                                  | 0.22                    |                           | 2.1                   | SURCHARGED  |                   |
| 1.008  | SW58          | 4.294                 | -0.106                     | 0.000                                  | 0.19                    |                           | 2.1                   | OK          |                   |