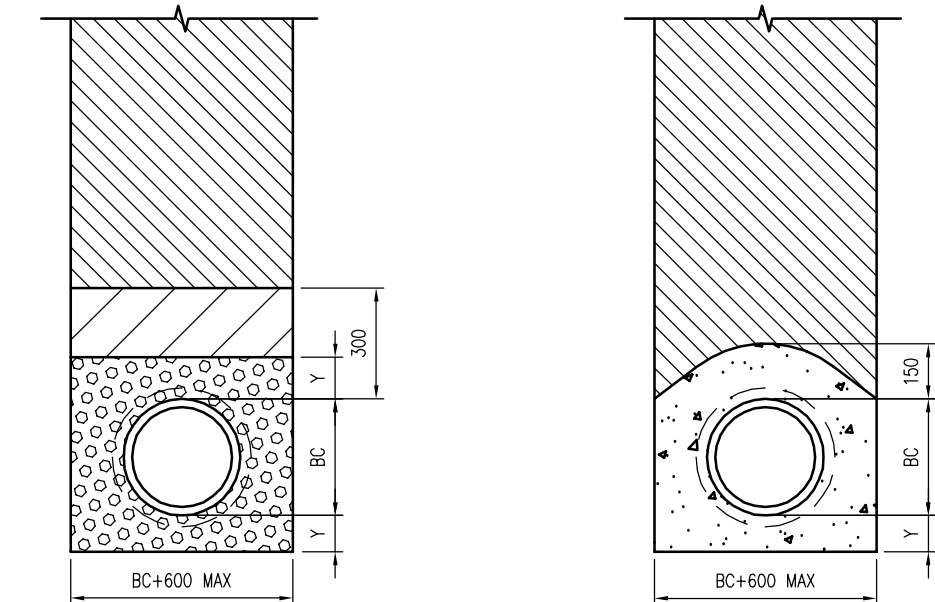
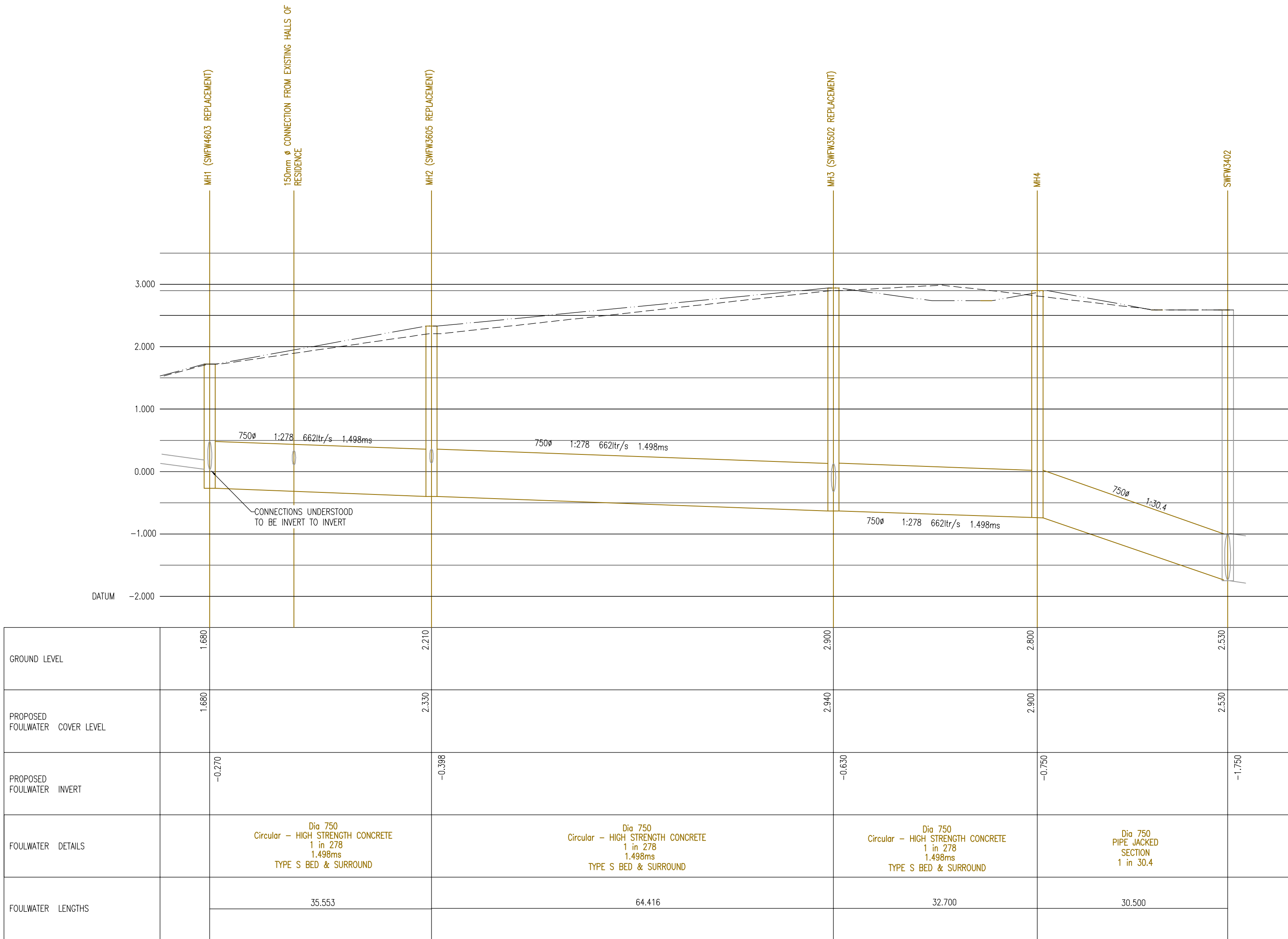


PROPOSED DIVERTED FOUL SEWER LONG-SECTION



GRANULAR BED AND SURROUND CLASS 'S'

CONCRETE BED AND SURROUND CLASS 'Z'

DIMENSION Y

| CLASS     | MACHINE DUG UNIFORM SOIL | ROCK OR MIXED SOILS |
|-----------|--------------------------|---------------------|
| N.F.B & S | NOTE (i)                 | NOTE (ii)           |
| A & Z     | NOTE (ii)                | NOTE (ii)           |

(i) Y=BC/6, OR 150 MIN, WHICHEVER IS GREATER INCLUDING UNDER SOCKETS, MAX OF 400.

(ii) Y=BC/4, WITH MIN 200 UNDER BARRELS (150 FOR SLEEVE JOINTED) AND MIN 150 UNDER SOCKETS, WHICHEVER IS THE GREATER, WITH A MAX OF 400.

N.B. TYPE S BED AND SURROUND TO USE PUDDLE CLAY TO PREVENT GROUND WATER FLOW. PUDDLE CLAY BANDING TO BE PLACED 1m UPSTREAM OF MANHOLE ROCKER PIPES AND AT A MAXIMUM SPACING OF 15m ALONG THE LENGTH OF THE PIPE. CLAY TO BE WELL COMPACTED IN LAYERS, BE OF EQUIVALENT CROSS SECTION TO THAT OF THE BED / SURROUND AND BE 300mm IN LENGTH.

KEY

|  |                                  |
|--|----------------------------------|
|  | SUITABLE BACKFILL MATERIAL.      |
|  | CLASS 8 MATERIAL TO CLAUSE 503.3 |
|  | SINGLE SIZE GRANULAR MATERIAL.   |
|  | GEN3 CONCRETE BED AND SURROUND.  |

DN = NOMINAL INTERNAL DIAMETER OF PIPE.  
BC = OUTSIDE DIAMETER OF PIPE.

PIPE BED & SURROUND DETAILS  
SCALE N.T.S.

DO NOT SCALE

NOTES

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
- ALL LEVELS ARE IN METRES A.O.D.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECT & ENGINEERING DETAILS, DRAWINGS & SPECIFICATIONS.
- ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT AND/OR ENGINEER IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
- STUBS SHALL BE LAID SOFFIT TO SOFFIT WITH OUTGOING PIPES UNLESS OTHERWISE STATED. STUBS SHALL BE A MINIMUM OF 2.5m LONG AND INCLUDE 2 ROCKER PIPES TO SFA 7th EDN. CLAUSE E.6.6.2. (EXCEPT IF SHOWN OTHERWISE).
- CLASS Z CONCRETE BED AND SURROUND TO BE USED WHERE COVER TO PIPE IS LESS THAN 1.2m. ALL OTHERS SHOULD BE CLASS S, UNLESS STATED OTHERWISE.
- ALL ADOPTABLE PIPES TO BE HIGH STRENGTH. ALL 150mm AND 225mm DIA. PIPES TO BE VITRIFIED CLAY TO B.S. EN 295. PIPES 300mm DIA. AND ABOVE TO BE CONCRETE CLASS H TO BE BS EN 5911.
- ALL ADOPTABLE DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH SEWERS FOR ADOPTION, 7TH EDITION.
- LONGSECTION TO BE READ IN CONJUNCTION WITH DRAWING NUMBER 0938/D/101.
- FOR ROCKER PIPE DETAILS REFER TO SFA 7th EDN. CLAUSE E.6.6.2.

KEY:

|  |                                                        |
|--|--------------------------------------------------------|
|  | EXISTING GROUND PROFILE (INDICATIVE ONLY)              |
|  | PROPOSED GROUND PROFILE (INDICATIVE ONLY)              |
|  | PROPOSED ADOPTABLE FOUL WATER SEWER & MANHOLE          |
|  | EXISTING ADOPTED FOUL WATER SEWER & MANHOLE (RETAINED) |

|     |          |     |                                                                                                                                                                                                                                |     |     |
|-----|----------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| F   | 05/12/16 | MJM | DRAWING STATUS UPDATED TO CONSTRUCTION. N.B. REFERENCE TO THE USE OF PUDDLE CLAY ADDED TO PIPE BED & SURROUND DETAIL.                                                                                                          | LXD | MJS |
| E   | 11/11/16 | TPS | AMENDMENTS TO REFLECT ITEMS DISCUSSED WITH SOUTHERN WATER 25/10/16. MH5, 6 & 7 REMOVED. MH4 RELOCATED & DETAILS UPDATED WITH PIPE JACKED OUTLET CONNECTING DIRECTLY TO SWFWS402.                                               | MJM | MJS |
| D   | 04/10/16 | MJM | ROCKER PIPE REF. IN NOTE 5 AMENDED. NOTE 111 ADDED. MH4, MH5 RELOCATED & DETAILS UPDATED. MH6, MH7 ADDED & DETAILS ADDED. PIPE JACKING GRADIENT INCREASED. MH7 TO SWFWS402. GRADIENT INCREASED. PROPOSED GROUND PROFILE ADDED. | OLF | LP  |
| C   | 22/08/16 | MJM | TYPE S BED & SURROUND 'Y' DIMENSION AMENDED TO MINIMUM 150mm. MH4 ADDED TO PERMIT PIPE JACKING. PROPOSALS LOWERED TO PERMIT CONNECTION SOFFIT TO SOFFIT AT MH1.                                                                | NP  | LP  |
| B   | 05/07/16 | MJM | MH REFERENCE NUMBERS CORRECTED MH2, MH3 & SWFWS404. CONNECTION TO MH1 AMENDED TO 150ø DN & CONNECTION LOCATED BASED ON CURRENT KNOWLEDGE OF EXISTING LAYOUT. PIPE BED & SURROUND DETAIL ADDED.                                 | NP  | MJS |
| A   | 15/03/16 | MJM | FIRST ISSUE                                                                                                                                                                                                                    | PN  | MJS |
| REV | DATE     | BY  | DESCRIPTION                                                                                                                                                                                                                    | CHK | APD |

|                 |                         |
|-----------------|-------------------------|
| DRAWING STATUS: | ISSUED FOR CONSTRUCTION |
|-----------------|-------------------------|

Regus House, Southampton International Business Park  
George Curl Way, Southampton, Hampshire, SO18 2RZ  
Tel: +44 (0)2380 302529 Fax: +44 (0)2380 302001  
www.wspgroup.com www.pbworld.com

|         |                          |
|---------|--------------------------|
| CLIENT: | UNIVERSITY OF CHICHESTER |
|---------|--------------------------|

|            |                 |
|------------|-----------------|
| ARCHITECT: | STRIDE TREGLOWN |
|------------|-----------------|

|          |                                                                                                            |
|----------|------------------------------------------------------------------------------------------------------------|
| PROJECT: | UNIVERSITY OF CHICHESTER<br>EDT PARK,<br>BOGNOR REGIS                                                      |
| TITLE:   | SOUTHERN WATER<br>S185 DEVELOPER DIVERSION APPLICATION PLAN<br>LONG-SECTION<br>PIPE BED & SURROUND DETAILS |

|             |            |               |            |           |               |
|-------------|------------|---------------|------------|-----------|---------------|
| SCALE @ A1: | 1:500      | CHECKED:      | FN         | APPROVED: | MJS           |
| CAD FILE:   | 0938-D-102 | DESIGN-DRAWN: | MJM        | DATE:     | December 2016 |
| PROJECT No: | 70010938   | DRAWING No:   | 0938/D/102 | REV:      | F             |