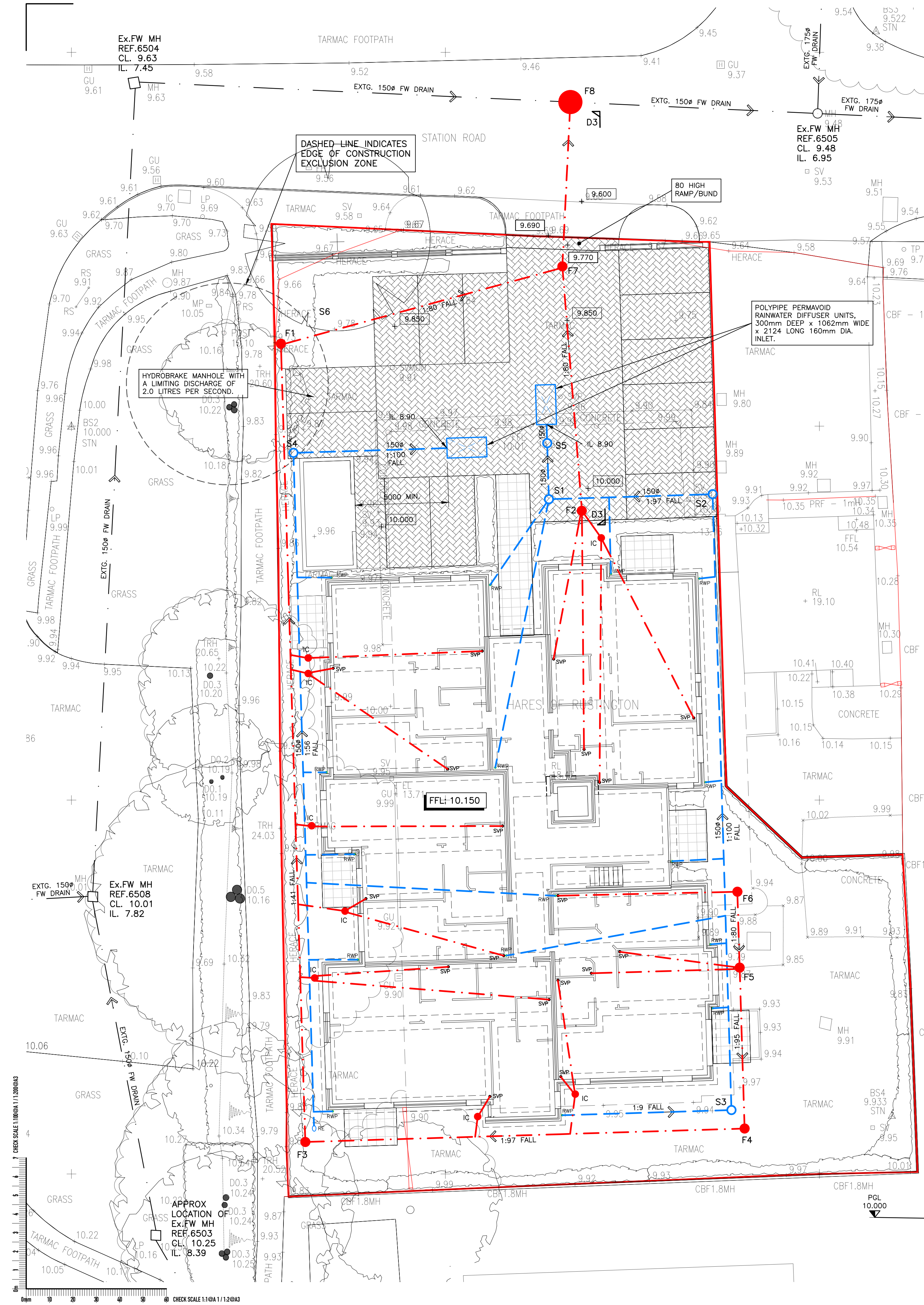




**LEGEND**

S1 SURFACE WATER MANHOLE / INSPECTION CHAMBER / ACCESS CHAMBER (SEE SCHEDULE FOR DETAILS)

100mm Dia. PVCu. SN4 STORM WATER DRAIN (U.N.O.)

RWP RAIN WATER DOWNPIPE WITH TRAPPED GULLY (LOCATION AS ARCHITECTS DRGS)

RE RODDING EYE

F1 FOUL WATER MANHOLE / INSPECTION CHAMBER / ACCESS CHAMBER (SEE SCHEDULE FOR DETAILS)

IC TYPE 4 315Ø INSPECTION CHAMBER. DEPTH TO SOFFIT = 0.8m REFER TO DETAIL

150mm Dia. PVCu. SN4 FOUL WATER DRAIN (U.N.O.)

SVP/SS SOIL VENT PIPE / STUB STACK (LOCATION AS ARCHITECTS DRGS)

+116.69 PROPOSED LEVEL

+116.69 EXISTING GROUND LEVEL

PERMEABLE BLOCK PAVING

| SUDS OPERATION & MAINTENANCE |                                                                                           |                                           |
|------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------|
| GENERAL                      |                                                                                           |                                           |
| MAINTENANCE SCHEDULE         | REQUIRED ACTION                                                                           | FREQUENCY                                 |
| REGULAR MAINTENANCE          | REMOVE SEDIMENT & DEBRIS FROM PRE-TREATMENT DEVICES & FLOOR OF INSPECTION TUBE OR CHAMBER | ANNUALLY                                  |
|                              | CLEANING OF ANY GUTTERS & ANY FILTERS ON DOWNPIPES                                        | ANNUALLY                                  |
|                              | TRIMMING ANY ROOTS THAT MAY BE CAUSING BLOCKAGES                                          | ANNUALLY (OR AS REQUIRED)                 |
| MONITORING                   | INSPECT SILT TRAPS AND NOTE RATE OF SEDIMENT ACCUMULATION                                 | MONTHLY IN THE FIRST YEAR & THEN ANNUALLY |
|                              | CHECK ATTENUATION TANK TO ENSURE EMPTYING IS OCCURRING                                    | ANNUALLY                                  |

| OPERATION AND MAINTENANCE REQUIREMENTS FOR PERMEABLE PAVING |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MAINTENANCE SCHEDULE                                        | REQUIRED ACTION                                                                                                                                                                      | TYPICAL FREQUENCY                                                                                                                                                                                                                                                                                                           |
| REGULAR MAINTENANCE                                         | BRUSHING AND VACUUMING (STANDARD COSMETIC SWEEP OVER WHOLE SURFACE)                                                                                                                  | ONCE A YEAR, AFTER AUTUMN LEAF FALL OR REDUCED FREQUENCY AS REQUIRED, BASED ON SITE-SPECIFIC OBSERVATIONS OF CLOGGING OR MANUFACTURER'S RECOMMENDATIONS - PAY PARTICULAR ATTENTION TO AREAS WHERE WATER RUNS ONTO PREVIOUS SURFACE FROM ADJACENT IMPERMEABLE AREAS AS THIS AREA IS MOST LIKELY TO COLLECT THE MOST SEDIMENT |
|                                                             | STABILISE AND MOW CONTRIBUTING AND ADJACENT AREAS                                                                                                                                    | AS REQUIRED                                                                                                                                                                                                                                                                                                                 |
| OCCASIONAL MAINTENANCE                                      | REMOVAL OF WEEDS OR MANAGEMENT USING GLYPHOSPHATE APPLIED DIRECTLY INTO THE WEEDS BY AN APPLICATOR RATHER THAN SPRAYING                                                              | AS REQUIRED - ONCE PER YEAR ON LESS FREQUENTLY USED PAVEMENTS                                                                                                                                                                                                                                                               |
|                                                             | REMEDiate ANY LANDSCAPING WHICH, THROUGH VEGETATION MAINTENANCE OR SOIL SLIP, HAS BEEN RAISED TO WITHIN 50mm OF THE LEVEL OF THE PAVING                                              | AS REQUIRED                                                                                                                                                                                                                                                                                                                 |
| REMEDIAL ACTIONS                                            | REMEDIAL WORK TO ANY DEPRESSIONS, RUTTING AND CRACKED OR BROKEN BLOCKS CONSIDERED DETRIMENTAL TO THE STRUCTURAL PERFORMANCE OR A HAZARD TO USERS, AND REPLACE LOST JOINTING MATERIAL | AS REQUIRED                                                                                                                                                                                                                                                                                                                 |
|                                                             | REHABILITATION OF SURFACE AND UPPER SUB-STRUCTURES BY REMEDIAL SWEEPING                                                                                                              | EVERY 10 TO 15 YEARS OR AS REQUIRED (IF INFILTRATION PERFORMANCE IS REDUCED DUE TO SIGNIFICANT CLOGGING)                                                                                                                                                                                                                    |
| MONITORING                                                  | INITIAL INSPECTION                                                                                                                                                                   | MONTHLY FOR THREE MONTHS AFTER INSTALLATION                                                                                                                                                                                                                                                                                 |
|                                                             | INSPECT FOR EVIDENCE OF POOR OPERATION AND/OR WEED GROWTH - IF REQUIRED, TAKE REMEDIAL ACTION                                                                                        | THREE-MONTHLY, 48 HOURS AFTER LARGE STORMS IN FIRST SIX MONTHS                                                                                                                                                                                                                                                              |
|                                                             | INSPECT SILT ACCUMULATION RATES AND ESTABLISH APPROPRIATE BRUSHING FREQUENCIES                                                                                                       | ANNUALLY                                                                                                                                                                                                                                                                                                                    |
|                                                             | MONITOR INSPECTION CHAMBERS                                                                                                                                                          | ANNUALLY                                                                                                                                                                                                                                                                                                                    |
|                                                             | INSPECT TREATED TIMBER EDGING AND REPLACE AS AND WHEN REQUIRED,                                                                                                                      | ANNUALLY                                                                                                                                                                                                                                                                                                                    |

| FOUL MANHOLE SCHEDULE |             |              |                 |           |        |              |                          |
|-----------------------|-------------|--------------|-----------------|-----------|--------|--------------|--------------------------|
| REF                   | COVER LEVEL | INVERT LEVEL | DEPTH TO INVERT | SIZE      | TYPE   | COVER        | COMMENTS                 |
| F1                    | 9.850       | 7.800        | 2.050           | 450Ø      | TYPE 3 | 450x450 B125 |                          |
| F2                    | 10.000      | 8.520        | 1.480           | 450Ø      | TYPE 3 | 450x450 C250 | RECESSED TRAY FOR PAVING |
| F3                    | 10.000      | 8.820        | 1.180           | 450Ø      | TYPE 3 | 450x450 A15  |                          |
| F4                    | 10.000      | 9.060        | 0.940           | 450Ø      | TYPE 3 | 450x450 A15  |                          |
| F5                    | 10.000      | 9.150        | 0.850           | 450Ø      | TYPE 3 | 450x450 A15  |                          |
| F6                    | 10.000      | 9.200        | 0.800           | 450Ø      | TYPE 3 | 450x450 A15  |                          |
| F7                    | 9.850       | 7.610        | 2.240           | 450Ø      | TYPE 3 | 450x450 C250 | RECESSED TRAY FOR PAVING |
| F8                    | AS EXISTING | AS EXISTING  |                 | 1200 DIA. | TYPE 2 | 675x675 D400 |                          |

| STORM MANHOLE SCHEDULE |             |              |                 |      |        |              |                                        |
|------------------------|-------------|--------------|-----------------|------|--------|--------------|----------------------------------------|
| REF                    | COVER LEVEL | INVERT LEVEL | DEPTH TO INVERT | SIZE | TYPE   | COVER        | COMMENTS                               |
| S1                     | 10.000      | 8.980        | 1.020           | 450Ø | TYPE 3 | 450x450 C250 | RECESSED TRAY FOR PAVING               |
| S2                     | 10.000      | 9.070        | 0.930           | 450Ø | TYPE 3 | 450x450 C250 | RECESSED TRAY FOR PAVING               |
| S3                     | 10.000      | 9.400        | 0.600           | 450Ø | TYPE 3 | 450x450 A15  |                                        |
| S4                     | 9.900       | 9.060        | 0.840           | 450Ø | TYPE 3 | 450x450 C250 | 300 SUMP / CATCH PIT AND RECESSED TRAY |
| S5                     | 9.950       | 8.930        | 1.020           | 450Ø | TYPE 3 | 450x450 C250 | 300 SUMP / CATCH PIT AND RECESSED TRAY |

**NOTES**

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- GENERAL NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND DETAILS.
  - ALL FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
  - ANY DISCREPANCIES BETWEEN THIS DRAWING AND OTHER INFORMATION IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE WORKS ON SITE.
  - THE MAIN CONTRACTOR SHALL BE RESPONSIBLE FOR THE SETTING OUT AND ACCURACY OF ALL DIMENSIONS. THE CONTRACTOR IS TO ENSURE THE STABILITY AND STRUCTURAL INTEGRITY OF THE EXISTING PROPERTY AT ALL TIMES DURING WORKS AND IS TO BE RESPONSIBLE FOR ALL PROPPING AND SHORING AS REQUIRED.
  - MAIN CONTRACTOR TO PROVIDE AND FIX SUITABLE BRACING AND PROPPING FOR ALL ELEMENTS IN THE TEMPORARY CONDITION DURING CONSTRUCTION STAGE, SUCH AS TO ENSURE STRUCTURE STABILITY AT ALL TIMES.
  - IT IS THE CONTRACTORS SOLE RESPONSIBILITY FOR ASCERTAINING SAFE DISPOSAL OF ANY OFF-SITE EXCAVATED SPOIL. NO CLAIM RESULTING FROM ABNORMAL TIP REQUIREMENTS WILL BE ENTERTAINED.

- DRAINAGE**
- ALL MATERIALS AND WORKMANSHIP TO 'SEWERS FOR ADOPTION, 7th EDITION'
  - ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH BS EN 752-1: 1996
  - WHEN USING VITRIFIED CLAY PIPEWORK WITH FLEXIBLE JOINTS, SUPERSTRENGTH SHALL BE USED. ALL ADAPTABLE WORKS SHALL USE V.C PIPEWORK. FOR NON-ADOPTED SYSTEM PVCU-SN4 CLASS PIPEWORK AND FITTINGS MAY BE SUBSTITUTED
  - CONCRETE ENCASEMENT, MINIMUM 150 BED AND HAUNCH, TO BE USED ON PIPEWORK UNDER ROADS WITH LESS THAN 1200 COVER TO GROUND
  - UNLESS OTHERWISE STATED, ALL PIPEWORK TO BE BEDDED AND SURROUNDED IN 10mm SINGLE SIZE AGGREGATE UP TO 450mm DIAMETER. FOR LARGER PIPEWORK, 20mm SHALL BE USED.
  - REFER TO MANHOLE SCHEDULE FOR SIZES, COVERS ETC.
  - ALL MATERIALS TO COMPLY WITH THE RELEVANT BS-EN, LATEST EDITION, FOR PIPEWORK AND FITTINGS.
  - UPON COMPLETION, ALL WORKS TO BE THOROUGHLY CLEANED BY FLUSHING.

- HIGHWAYS**
- ALL WORKS TO COMPLY WITH RELEVANT COUNTY COUNCIL OR LOCAL AUTHORITY SPECIFICATION, AS REQUIRED.
  - ALL DRAINAGE WORKS IN ADOPTABLE AREAS TO BE IN ACCORDANCE WITH WATER AUTHORITY ASSOCIATION 'SEWERS FOR ADOPTION' - 7th EDITION.

| CDM REGULATIONS 2015                                                                                                                                                                                                                                                                                                                      |        |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|
| RUGHEY BREWSTER ASSOCIATES HAVE CONSIDERED AND, WHERE REASONABLY PRACTICABLE, AVOIDED FORESEEABLE RISKS IN THE PREPARATION OF THE DESIGN SHOWN ON THIS AND RELATED DRAWINGS. SIGNIFICANT RISKS WHICH REMAIN AND ASSOCIATED CONTROL MEASURES ARE IDENTIFIED BELOW AND SHOULD BE GIVEN PARTICULAR ATTENTION BY THE MAIN CONTRACTOR ON SITE. |        |         |
| ACTIVITY                                                                                                                                                                                                                                                                                                                                  | HAZARD | CONTROL |
|                                                                                                                                                                                                                                                                                                                                           |        |         |
| NOTE: THE ABOVE ASSESSMENT RECORDS ONLY THOSE ELEMENTS CONSIDERED UNUSUAL, DIFFICULT TO MANAGE OR OUTSIDE OF THE ANTICIPATED EXPERTISE OF A COMPETENT CONTRACTOR                                                                                                                                                                          |        |         |

**THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING No.RRL012-551**

| P8       | 18.12.18 | MANHOLE SS COVER CLASS AMENDED     | JMB |
|----------|----------|------------------------------------|-----|
| P8       | 07.12.18 | AMENDED TO SUIT LA'S REQUIREMENTS. | JMB |
| P6       | 10.10.18 | COMBINED MH C1 RELOCATED.          | JMB |
| P5       | 04.10.18 | SS MOVED, LONG SEC D3-D3 ADDED     | JH  |
| P4       | 13.06.18 | S3 INVERT UPDATED GRADIENTS ADDED  | JH  |
| P8       | 06.12.17 | DRAINAGE UPDATED.                  | JMB |
| P2       | 06.09.17 | DRAINAGE UPDATED.                  | JMB |
| P1       | 12.07.17 | PRELIMINARY ISSUE FOR COMMENT      | JH  |
| Revision | Date     | Description                        | By  |

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**ace**  
consulting engineering planning environment

Client: RENAISSANCE RETIREMENT  
Architect: WILLIAM LESTER CHARTERED ARCHITECTS  
Project Title: RETIREMENT APARTMENTS STATION ROAD RUSTINGTON  
Drawing Title: DRAINAGE LAYOUT

|                    |                 |                 |              |                |
|--------------------|-----------------|-----------------|--------------|----------------|
| Scale: 1:125       | Paper Size: A1  | Date: JUNE 2017 | Drawn By: JH | Checked By: CH |
| Project No: RRL012 | Drawing No: 505 | Revision: P8    |              |                |

**ELEVATION ON D3-D3**  
[ON PARKING FINISHES ONLY]  
(SCALE 1:50@A1)