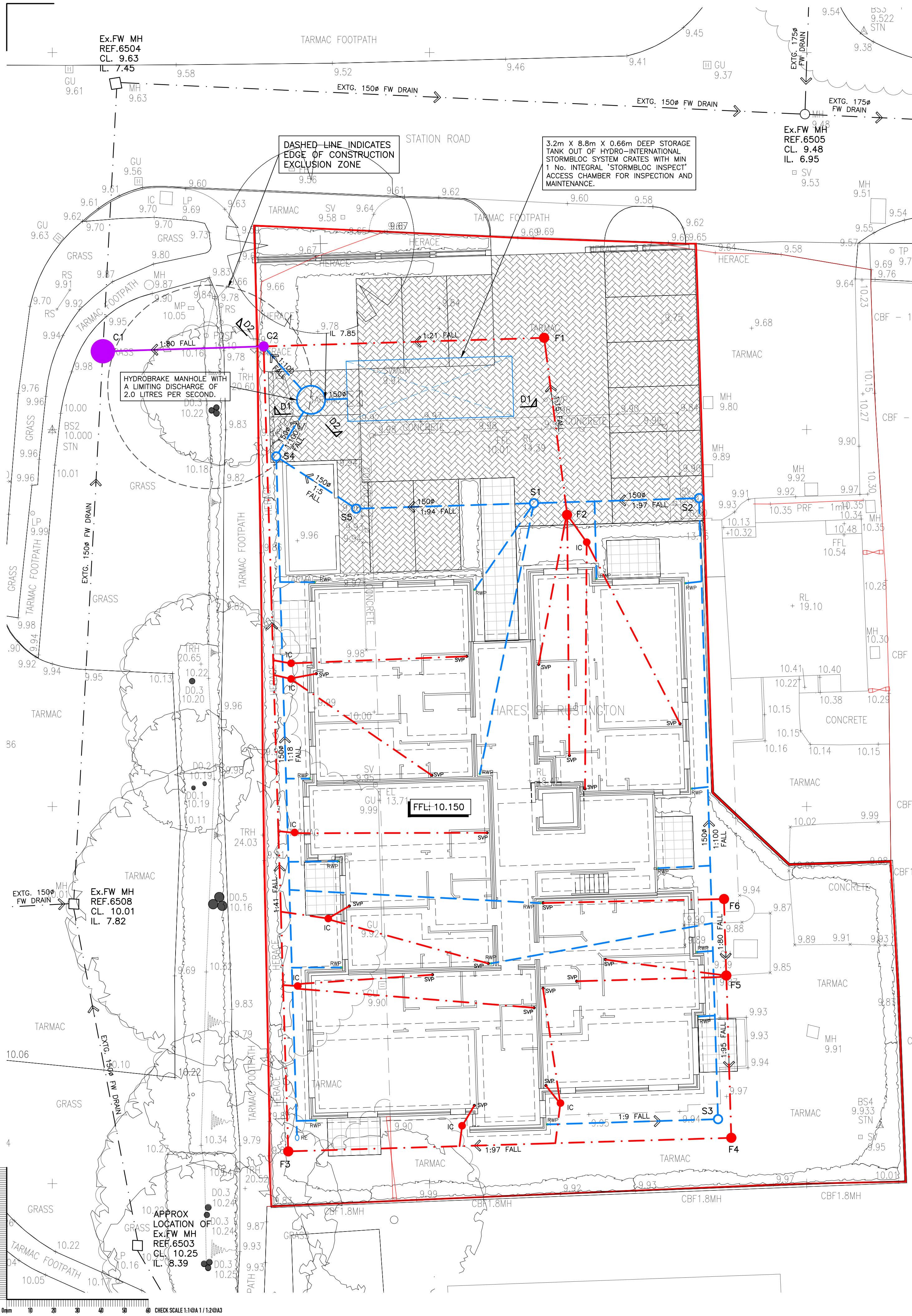




LEGEND

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)

C1
● COMBINED FOUL AND SURFACE WATER MANHOLE / INSPECTION CHAMBER / ACCESS CHAMBER (SEE SCHEDULE FOR DETAILS)
--- 150mm Dia. PVCu. SN4 COMBINED FOUL AND SURFACE WATER DRAIN.
+ 116.69 PROPOSED LEVEL
+ 116.69 EXISTING GROUND LEVEL
[Pattern] PERMEABLE BLOCK PAVING

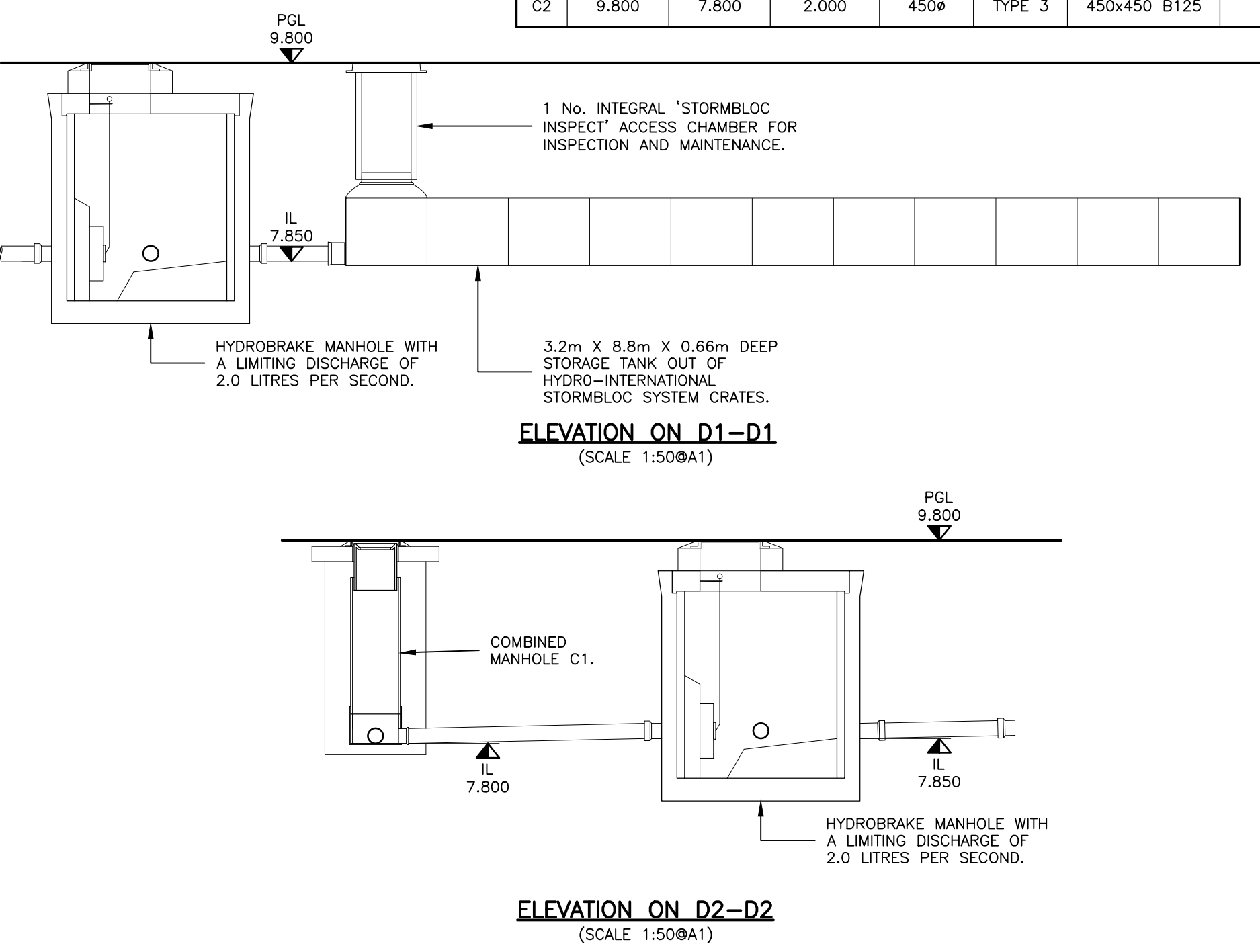
SUDS OPERATION & MAINTENANCE		
GENERAL		
MAINTENANCE SCHEDULE	REQUIRED ACTION	FREQUENCY
REGULAR MAINTENANCE	REMOVE SEDIMENT & DEBRIS FROM PRE-TREATMENT DEVICES & FLOOR OF INSPECTION TUBE OR CHAMBER	ANNUALLY
	CLEANING OF ANY GUTTERS & ANY FILTERS ON DOWNPIPES	ANNUALLY
	TRIMMING ANY ROOTS THAT MAY BE CAUSING 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 PVIOUS 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 GLYPHOSATE 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	COMMENTS
F1	9.850	8.500	1.350	450ø	TYPE 3	450x450 C250 RECESSED TRAY FOR PAVING
F2	10.000	9.100	0.900	450ø	TYPE 3	450x450 C250 RECESSED TRAY FOR PAVING
F3	10.000	8.820	1.180	450ø	TYPE 3	450x450 A15
F4	10.000	9.080	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

STORM MANHOLE SCHEDULE						
REF	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	SIZE	TYPE	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	7.900	2.000	450ø	TYPE 3	450x450 C250 RECESSED TRAY FOR PAVING
S5	10.000	8.880	1.120	450ø	TYPE 3	450x450 C250 RECESSED TRAY FOR PAVING

COMBINED MANHOLE SCHEDULE						
REF	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	SIZE	TYPE	COMMENTS
C1	AS EXISTING	AS EXISTING		1200 DIA.	TYPE 2	675x675 D400
C2	9.800	7.800	2.000	450ø	TYPE 3	450x450 B125



NOTES
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GENERAL NOTES
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND DETAILS.
2. ALL FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
3. 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.
4. 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.
5. 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.
6. 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
1. ALL MATERIALS AND WORKMANSHIP TO 'SEWERS FOR ADOPTION, 7th EDITION'
2. ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH BS EN 752-1: 1996
3. 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
4. CONCRETE ENCASEMENT, MINIMUM 150 BED AND HAUNCH, TO BE USED ON PIPEWORK UNDER ROADS WITH LESS THAN 1200 COVER TO CROWN
5. 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.
6. REFER TO MANHOLE SCHEDULE FOR SIZES, COVERS ETC.
7. ALL MATERIALS TO COMPLY WITH THE RELEVANT BS-EN, LATEST EDITION, FOR PIPEWORK AND FITTINGS.
8. UPON COMPLETION, ALL WORKS TO BE THOROUGHLY CLEANED BY FLUSHING.

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

CDM REGULATIONS 2015		
RUSHBY 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

P4	13.06.18	S3 INVERT UPDATED GRADIENTS ADDED	JH
P4	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
consultancy engineering business 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: P4		