APPENDIX E

N

REFER TO DRAWING PP-ISS-XX-XX-DR-C-3001

REFER TO DRAWING PP-ISS-XX-XX-DR-C-3002

CONTINUED BELOW

CONTINUED ABOVE

REFER TO DRAWING PP-ISS-XX-XX-DR-C-3003

F1.09
CL 13.050
IL 11.550

F1.10
CL 13.500
IL 11.450

150mm / 1:14

FOUL MH
REF. 4930
CL 13.080
IL 10.800

Brougham Grove
ϕ150

ϕ150

FOUL MH
REF. 4905
CL TBC
IL 10.633

Hatched area to be made available to the Public at all times

Metres
0 1 2 3 4 5 6 7 8 9 10

NOTES:

1. FOR OMITTED DRAINAGE INFORMATION WITHIN THE SITE, REFER TO DRAWINGS PP-ISS-XX-XX-DR-C-3001 TO PP-ISS-XX-XX-DR-C-3003.
2. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH THE LATEST VERSION OF SEWERS FOR ADOPTION AND DOCUMENT H OF THE BUILDING REGULATIONS. FOR FURTHER DRAINAGE NOTES PLEASE REFER TO DRAWING PP-ISS-XX-XX-DR-C-3004.

LEGEND

- SITE BOUNDARY

EXISTING DRAINAGE
- FOUL WATER SEWER (SOUTHERN WATER)
- FOUL WATER MANHOLE (SOUTHERN WATER)

PROPOSED DRAINAGE
- SURFACE WATER DRAIN/SEWER
- FOUL WATER DRAIN/SEWER
- SURFACE WATER MANHOLES
- FOUL WATER MANHOLES
- CELLULAR STORAGE ATTENUATION
- PERMEABLE PAVING

REV	DATE	DRAWN/CHK	REVISION INFO
P04	05.02.20	PL/TW	STACK CONNECTIONS & INFILTRATION RATES AMENDED, DRAINAGE ADJUSTED TO SUIT
P03	20.12.19	TT/TW	SUBMITTED TO SOUTHERN WATER FOR S104 & 106 APPLICATION APPROVALS.
P02	26.11.19	KD/TW	LAYOUT AMENDED FOLLOWING CLIENT COMMENTS
P01	15.11.19	KD/TW	FOR APPROVAL

STATUS:

FOR APPROVAL

CLIENT:

SAVISTA DESIGN AND BUILD

PROJECT:

POUND PLACE
ROUNDSTONE ROAD
ANGMERING

DRAWING TITLE:

PROPOSED
DRAINAGE LAYOUT
- OVERALL

JOB NUMBER:	SCALE AT A1:	REV. STATUS:
SE1612	1:500	S2

DRAWING NUMBER: PP-ISS-XX-XX-DR-C-3000

REVISION: P04

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ARUN DISTRICT COUNCIL A/1403/20/OUT

LEGEND

- SITE BOUNDARY
- EXISTING DRAINAGE FOUL WATER SEWER (SOUTHERN WATER)
- FOUL WATER MANHOLE (SOUTHERN WATER)

PROPOSED DRAINAGE:

- FOUL WATER SEWER/DRAIN
- SURFACE WATER SEWER/DRAIN
- SURFACE WATER MANHOLE
- FOUL WATER MANHOLE
- RE RODDING EYE
- RG ROAD GULLY
- YG FLOOR GULLY
- TD THRESHOLD DRAINAGE CHANNEL
- ACO LINEAR DRAINAGE CHANNEL
- RWP RAIN WATER PIPE
- SP FOUL STACK
- CELLULAR STORAGE ATTENU...
- PERMEABLE PAVING

NOTES:

1. SEE DRAWING PP-ISS-XX-XX-DR-C-3004 FOR STANDARD DRAINAGE NOTES APPLICABLE TO THIS SITE.

N

INDICATIVE COACH HOUSE RWP POSITIONS SHOWN TBC BY ARCHITECT

Soakaway CS4
2m² (1m x 2m) @ 0.8m
IL=11.870
Base level = 11.870
Infiltration Rate = 16.16m³/hour

Soakaway CS1
18m² (6m x 3m) @ 1.2m
IL=12.350
Base level = 12.350
Infiltration Rate = 16.16m³/hour

S4.03 (CATCHPIT) CL14.700 IL13.930(a) IL11.970(b) IL11.870(x) SUMP11.270

S1.07 (CATCHPIT) CL14.500 IL13.700(a) IL12.450(b) IL12.400(x) SUMP 11.850

S1.19 (CATCHPIT) CL14.480 IL13.700(a) IL12.400(b,x) SUMP11.800

F1.40 CL14.800 IL13.400

F1.09 CL13.050 IL11.650

F1.08 CL13.725 IL12.200

F1.07 CL14.400 IL12.400

F1.06 CL14.600 IL12.550

F1.29 CL14.550 IL12.661

S4.01 CL13.390 IL12.300

S4.02 CL14.000 IL12.120

S1.18 CL14.550 IL12.500

S1.17 CL14.570 IL12.640

S1.08 CL14.650 IL12.800

S1.06 CL14.500 BD13.700 IL12.700

S1.12 CL14.750 IL14.000

S1.26 CL14.750 IL13.700

S1.27 CL14.750 IL13.300

F1.04 CL14.720 IL13.110

F1.23 CL14.750 IL13.950

F1.39 CL14.750 IL13.830

F1.38 CL14.750 IL14.000

150mm / 1:51
150mm / 1:74
150mm / 1:79
150mm / 1:91
150mm / 1:116
150mm / 1:17
150mm / 1:120
225mm / 1:100
225mm / 1:150
150mm / 1:124
150mm / 1:113
150mm / 1:10
150mm / 1:15
150mm / 1:21
150mm / 1:5
150mm / 1:133
150mm / 1:17
150mm / 1:73
150mm / 1:35

FOUL CONNECTION FROM COACH HOUSE TBC

Drop Kerb
Blister tactile paving
Blister tactile paving
Drop Kerb
Drop Kerb
Blister tactile paving
Blister tactile paving
Drop Kerb
Drop Kerb
Blister tactile paving

DEMARCATION CHAMBER

ACO Channel

BIN STORE
generator
Bin Store floor to be sloped to floor gully (Min. 1:100)

barbed wire fence
barbed wire fence

tarmac footpath
speed reduction humps
grass embankment
grass embankment
Roundstone Lane (B2225)
closeboard fence
Wall
electronic
(cable to ground)
Stn O EL 13.256
SC
Blister tactile

CONTINUED ON DRG PP-ISS-XX-XX-DR-C-3402

Metres
0 1 2 3 4 5 6 7 8 9 10

ARUN DISTRICT COUNCIL A/18/20/DOC

REV	DATE	DRAWN/CHK	REVISION INFO
P04	05.02.20	PL/TW	STACK CONNECTIONS & INFILTRATION RATES AMENDED, DRAINAGE ADJUSTED TO SUIT
P03	20.12.19	TT/TW	SUBMITTED TO SOUTHERN WATER FOR S104 & 106 APPLICATION APPROVALS.
P02	26.11.19	KD/TW	LAYOUT AMENDED FOLLOWING CLIENT COMMENTS
P01	15.11.19	KD/TW	FOR APPROVAL

STATUS:

FOR APPROVAL

CLIENT:

SAVISTA DESIGN AND BUILD

PROJECT:

POUND PLACE
ROUNDSTONE ROAD
ANGMERING

DRAWING TITLE:

PROPOSED
DRAINAGE LAYOUT
SHEET 1 OF 3

JOB NUMBER:	SCALE AT A1:	REV. STATUS:
SE1612	1:100	S2

DRAWING NUMBER: PP-ISS-XX-XX-DR-C-3001 REVISION: P04

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LEGEND

- SITE BOUNDARY
- EXISTING DRAINAGE FOUL WATER SEWER (SOUTHERN WATER)
- FOUL WATER MANHOLE (SOUTHERN WATER)

PROPOSED DRAINAGE:

- FOUL WATER SEWER/DRAIN
- SURFACE WATER SEWER/DRAIN
- SURFACE WATER MANHOLE
- FOUL WATER MANHOLE
- RE RODDING EYE
- RG ROAD GULLY
- YG FLOOR GULLY
- TD THRESHOLD DRAINAGE CHANNEL
- ACO LINEAR DRAINAGE CHANNEL
- RWP RAIN WATER PIPE
- SP FOUL STACK
- CELLULAR STORAGE ATTENU.
- PERMEABLE PAVING

NOTES:

1. SEE DRAWING PP-ISS-XX-XX-DR-C-3004 FOR STANDARD DRAINAGE NOTES APPLICABLE TO THIS SITE.



REV	DATE	DRAWN/CHK	REVISION INFO
P04	05.02.20	PL/TW	STACK CONNECTIONS & INFILTRATION RATES AMENDED, DRAINAGE ADJUSTED TO SUIT
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P01	15.11.19	KD/TW	FOR APPROVAL

STATUS: FOR APPROVAL

CLIENT: SAVISTA DESIGN AND BUILD

PROJECT: POUND PLACE, ROUNDSTONE ROAD, ANGMERING

DRAWING TITLE: PROPOSED DRAINAGE LAYOUT SHEET 2 OF 3

JOB NUMBER:	SCALE AT A1:	REV. STATUS:
SE1612	1:100	S2

DRAWING NUMBER: PP-ISS-XX-XX-DR-C-3002 REVISION: P04

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LEGEND

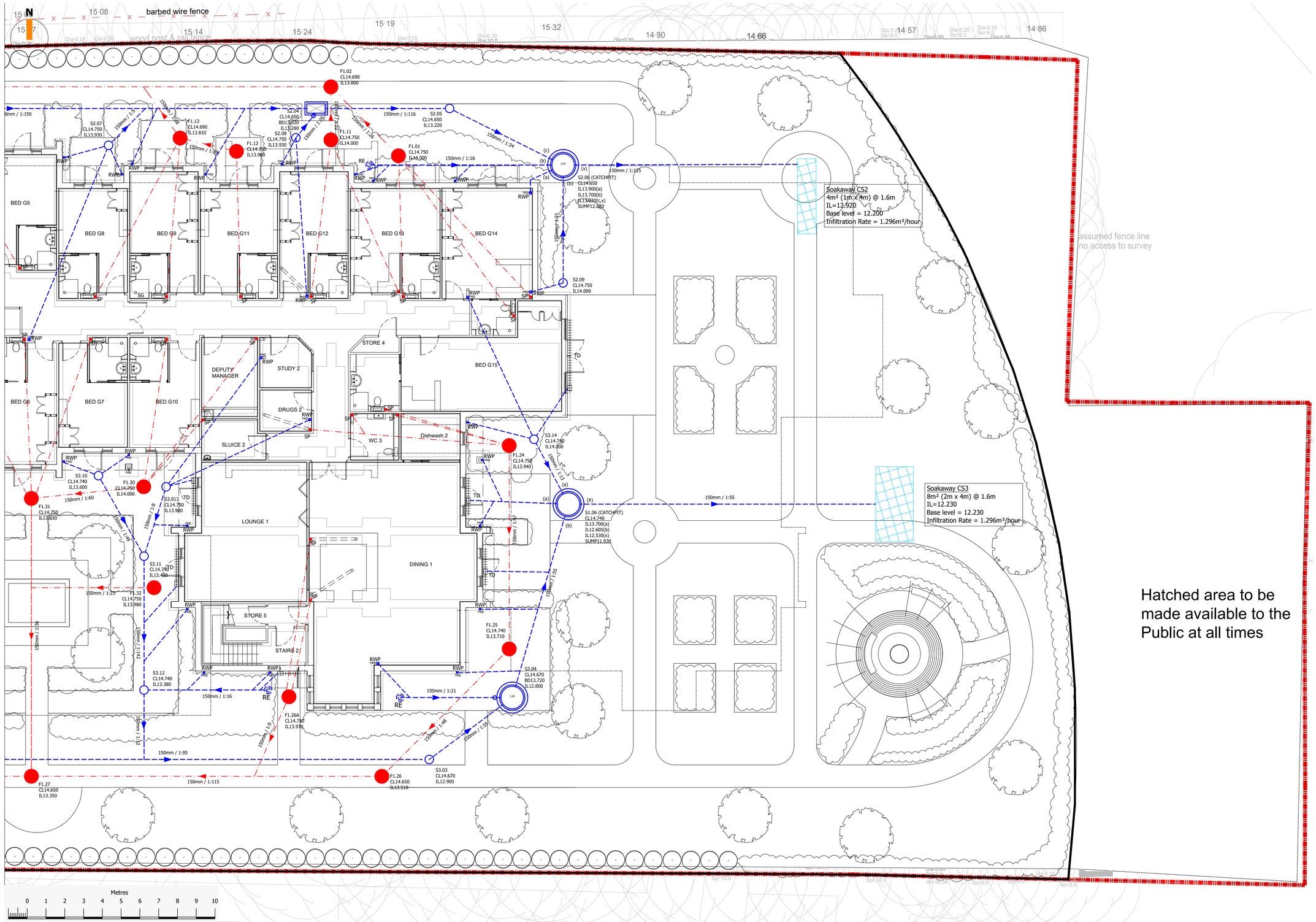
- SITE BOUNDARY
- EXISTING DRAINAGE FOUL WATER SEWER (SOUTHERN WATER)
- FOUL WATER MANHOLE (SOUTHERN WATER)

PROPOSED DRAINAGE:

- FOUL WATER SEWER/DRAIN
- SURFACE WATER SEWER/DRAIN
- SURFACE WATER MANHOLE
- FOUL WATER MANHOLE
- RE RODDING EYE
- RG ROAD GULLY
- YG FLOOR GULLY
- TD THRESHOLD DRAINAGE CHANNEL
- ACO LINEAR DRAINAGE CHANNEL
- RWP RAIN WATER PIPE
- SP FOUL STACK
- CELLULAR STORAGE ATTENU...
- PERMEABLE PAVING

NOTES:

1. SEE DRAWING PP-ISS-XX-XX-DR-C-3004 FOR STANDARD DRAINAGE NOTES APPLICABLE TO THIS SITE.



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STATUS:

FOR APPROVAL

CLIENT:

SAVISTA DESIGN AND BUILD

PROJECT:

POUND PLACE
ROUNDSTONE ROAD
ANGMERING

DRAWING TITLE:

PROPOSED
DRAINAGE LAYOUT
SHEET 3 OF 3

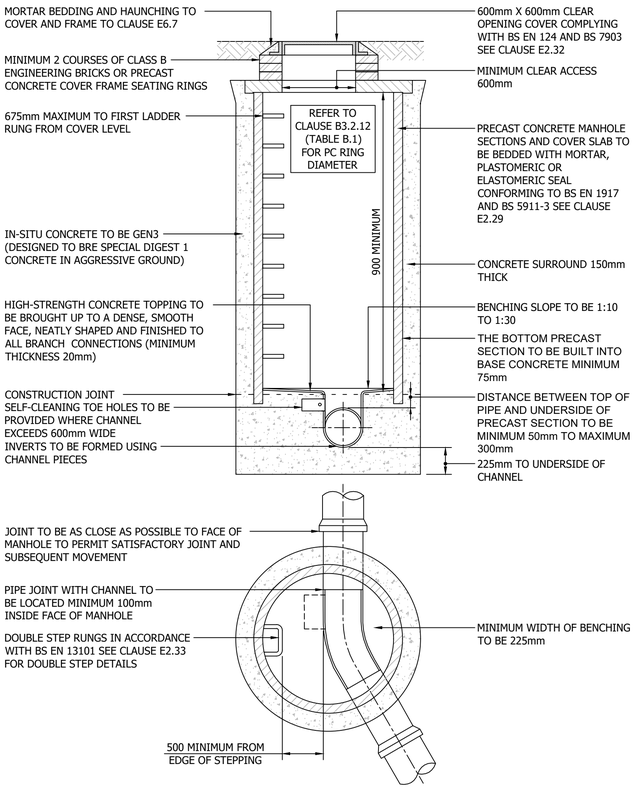
JOB NUMBER:	SCALE AT A1:	REV. STATUS:
SE1612	1:100	S2

DRAWING NUMBER: PP-ISS-XX-XX-DR-C-3003 REVISION: P04

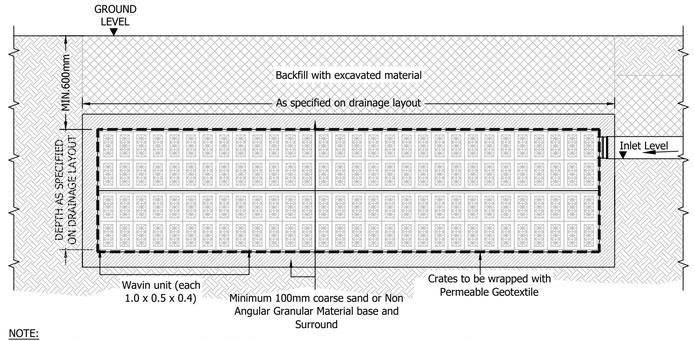
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ARUN DISTRICT COUNCIL 0/183/20/DOC

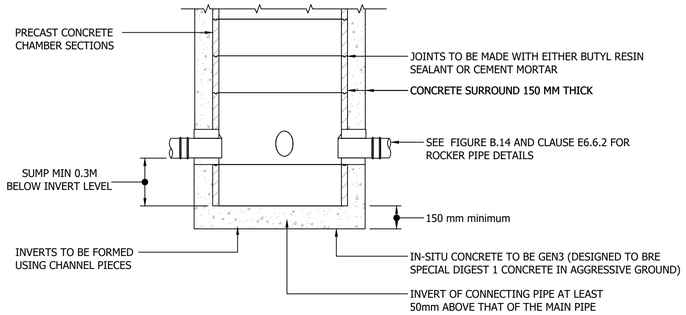


TYPICAL MANHOLE DETAIL - TYPE 2
MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3m



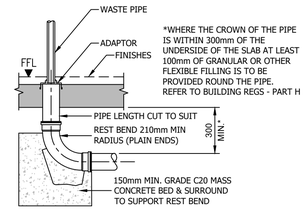
NOTE:
AQUACELL OR EQUIVALENT UNITS TO BE LAID PARALLEL WITH EACH OTHER. IN MULTIPLE LAYER APPLICATIONS, CONTINUOUS VERTICAL JOINTS SHOULD BE AVOIDED AND LAID IN A "BRICK BONDED" FORMATION.
FOR SINGLE LAYER APPLICATIONS USE THE WAVIN CLIPS AND FOR MULTI LAYERS USE WAVIN CLIPS AND WAVIN SHEAR CONNECTORS.
ALL AQUACELL EQUIVALENT UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

TYPICAL SOAKAWAY DETAIL "WAVIN AQUACELL"

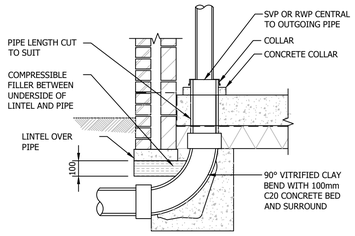


TYPICAL SURFACE WATER CATCHPIT CHAMBER DETAIL
SUMP MIN.300mm
BELOW THE INVERT LEVEL

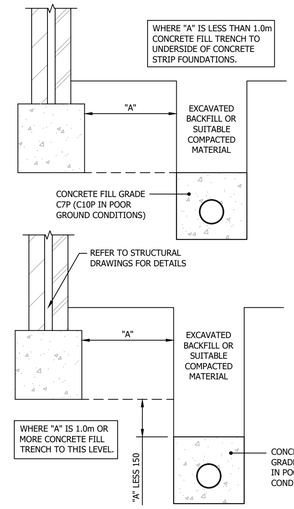
TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4



INTERNAL WASTE

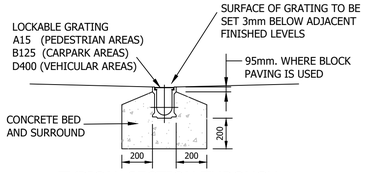


INTERNAL SVP/RWP

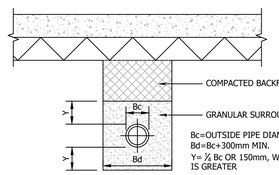


PIPE RUNS NEAR BUILDING FOUNDATIONS

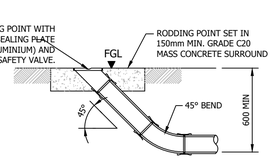
TABLE B.1 - MANHOLE DIAMETERS	
NOMINAL INTERNAL DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	**MINIMUM NOMINAL INTERNAL DIMENSION OF MANHOLE (mm)**
LESS THAN 375	1200
375 - 450	1350
500 - 700	1500
750 - 900	1800
GREATER THAN 900	PIPE DIAMETER + 900



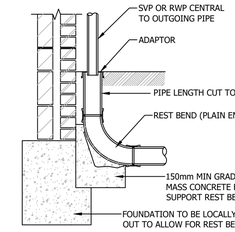
TYPICAL SECTION THROUGH CHANNEL DRAIN



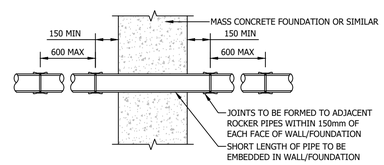
PIPEWORK UNDER SLABS



EXTERNAL RODDING EYE

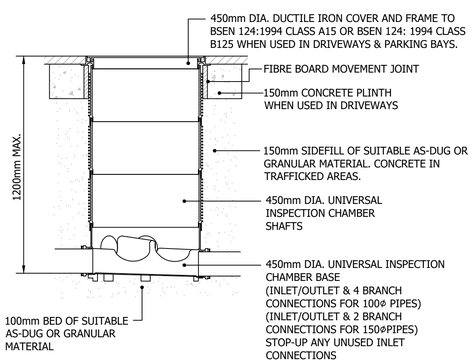


EXTERNAL RWP
ABOVE DETAIL IS ONLY TO BE USED WHERE SVP/RWP CONNECTS DIRECTLY TO ACCESS CHAMBER, INSPECTION CHAMBER OR MANHOLE

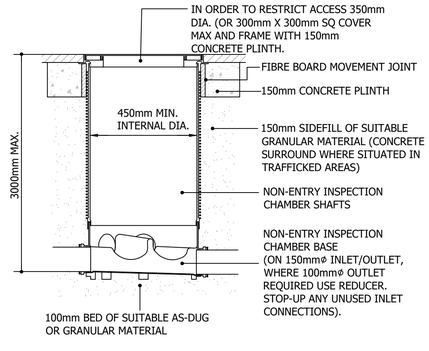


IF VOID IS PRE-FORMED THROUGH FOUNDATION USING A SLEEVE OR SIMILAR, REMAINING VOID BETWEEN PIPE AND SLEEVE TO BE COMPLETELY SEALED BOTH SIDES WITH RIGID SHEET MATERIAL OR FILLED USING WATERPROOF EXPANDING FOAM SEALANT OR SIMILAR APPROVED

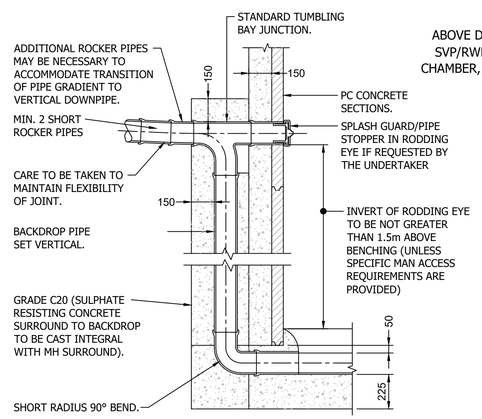
PIPE/FOUNDATION JUNCTION



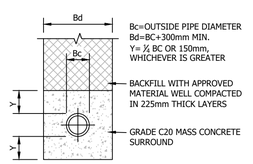
1.2m MAX. UNIVERSAL INSPECTION CHAMBER
FOR USE IN SOFT AREAS, DRIVEWAYS AND PARKING BAYS ONLY
(SCALE 1:20)



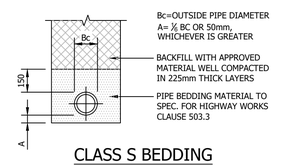
1.2m - 3.0m DEEP NON-ENTRY INSPECTION CHAMBER
FOR USE IN SOFT AREAS, DRIVEWAYS AND PARKING BAYS ONLY
(SCALE 1:20)



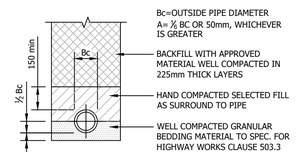
TYPICAL EXTERNAL BACKDROP DETAIL
FOR USE IN SOFT AREAS, DRIVEWAYS AND PARKING BAYS ONLY
(SCALE 1:20)



CLASS Z BEDDING
(CONCRETE BED & SURROUND)



CLASS S BEDDING
(GRANULAR BED & SURROUND)



CLASS B BEDDING
(GRANULAR BED & HAUNCH)

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSTRUCTION DRAWINGS AND THE CLIENT'S SPECIFICATION.
2. ALL PRIVATE DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROVISIONS LAID DOWN IN BS EN 752 & THE BUILDING REGULATIONS, PART H.
3. BEFORE COMMENCING ANY SEWER OR DRAINAGE WORKS, THE DEVELOPER'S GROUND WORKER MUST SATISFY THEMSELVES AND THE CLIENT THAT THE ACTUAL LEVELS, TYPE AND CONDITIONS OF EXISTING SEWERS ARE SUITABLE FOR THE PROPOSED WORKS.
4. ALL BURIED CONCRETE TO BE STRICTLY IN ACCORDANCE WITH THE SPECIFICATIONS.
5. ALL ABANDONED, BURIED OBSTRUCTIONS ENCOUNTERED DURING THE CONSTRUCTION OF THE WORKS ARE TO BE BROKEN OUT TO BED LEVEL OF NEW DRAINS AND SEWERS. RESIDUAL VOIDS TO BE BACKILLED TO FORMATION LEVEL WITH IN FULLY COMPACTED LAYERS OF EITHER TYPE 2 GRANULAR MATERIAL (UNDER PAVED AREAS) OR SUITABLE AS DUG MATERIAL (UNDER SOFT AREAS).
6. PRIOR TO COMMENCEMENT OF ANY OF THE ONSITE DRAINAGE WORKS, THE CONTRACTOR IS REQUIRED TO CHECK THE LINE, LEVEL AND CONDITION OF ANY SEWERS TO BE REUSED. ANY CONFLICTS WITH EXISTING BELOW GROUND SERVICES OR LEVEL DIFFERENCES ARE TO BE REPORTED TO THE CLIENTS ENGINEER IMMEDIATELY.
7. INSITU CONCRETE TO BENCHINGS OF FOUL MANHOLES TO BE CLASS 4 CONDITIONS; IE MIN. CEMENT CONTENT OF 360KG/m3 SULPHATE RESISTING PORTLAND CEMENT, AND MAX. FREE WATER RATIO OF 0.45 AND 20mm N.S AGGREGATE WITH GRANOLITHIC TOPPING.
8. ALL PRIVATE DRAINAGE TO BE LAID TO LEVELS SHOWN USING FLEXIBLY JOINTED PIPES, EITHER UPVC TO BS 4660 AND BS 5481 OR VITRIFIED CLAYWARE TO BS EN 295. CLAY TO BE USED UNDER SLABS.
9. GENERALLY PIPES TO HAVE GRANULAR BED & SURROUND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, ENSURING ADEQUATE PROTECTION WITH RESPECT TO DEPTH AND LOCATION.
10. PRIVATE MANHOLES TO BE CONSTRUCTED USING CONCRETE BOX SECTIONS, CIRCULAR RINGS TO BS 5911, OR POLYPROPYLENE INSPECTION CHAMBERS (PPIC'S) WHERE LESS THAN 1.2m DEEP, ALL WITH 150mm CONCRETE SURROUND (GRANULAR TO PPIC'S IN SOFT AREAS). SIZE AND CONSTRUCTION TO COMPLY WITH THE CONSTRUCTION DETAILS AND REQUIREMENTS OF BSEN 752 AND APPROVED DOCUMENT PART H. COVERS TO BE DUCTILE, CLASS B125 TO PEDESTRIAN AREAS, CLASS C250 TO CAR PARK AREAS AND D400 TO ALL OTHER AREAS.
11. ACCESS PANELS ARE TO BE PROVIDED TO ALL RAINWATER PIPES, A MAX. 600 ABOVE FINISHED GROUND LEVEL. REFER TO M&E DETAILS.
12. CARE MUST BE TAKEN TO ENSURE PRIVATE MANHOLES, RODDING EYES, ETC. ARE NOT POSITIONED WITHIN THE CURTILAGE OF ANY NEIGHBORING PROPERTY, PUBLIC HIGHWAY, FOOTWAY OR VERGE.
13. FLAT LATERAL CONNECTION TO BE 135° 'Y' JUNCTIONS (IE 45° OBLIQUE JUNCTIONS) RELATIVE TO MAIN RUN.
14. ALL EXISTING 'LIVE' MANHOLE AND INSPECTION CHAMBER COVERS AFFECTED BY THE NEW WORKS ARE TO BE RESET TO THE APPROPRIATE FINISHED LEVEL & SLOPE.
15. ALL PIPES WITH LESS THAN 600mm COVER AND SITUATED UNDER THE BUILDING TO BE CONCRETE CASED.
16. ALL LEVELS IN METRES (m) UNLESS SPECIFIED OTHERWISE. DATUM RELATIVE TO SURVEY DRAWING.
17. MANHOLES IN PAVED AREAS TO HAVE RECESSED COVER & FRAME. THESE TO BE ORIENTATED TO MINIMISE CUT BLOCKS.
18. NOTE ALL RWP/SVP POSITIONS AND SIZES TO BE CONFIRMED BY ARCHITECT. REFER TO ARCHITECTS DRAWINGS FOR POSITIONS OF RAINWATER PIPES AND SOIL VENT PIPES.
19. ALL ROOF DRAINAGE CONNECTIONS TO BE 100MM DIA. LAID NO FLATTER THAN 1:40 U.N.O.
20. ALL EXISTING RUNS MUST BE KEPT IN AN OPERATIVE STATE WITH THE MINIMUM OF DISRUPTION DURING REPLACEMENT OR WHEN MAKING A NEW CONNECTION.
21. A SUITABLE METHOD STATEMENT MUST BE SUBMITTED TO THE CONTRACTS ADMINISTRATOR OFFICER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
22. AT ALL TIMES ACCESS MUST BE MAINTAINED TO ALL ROADS AND FOOTPATHS.

REV	DATE	DRAWN/CHK	REVISION INFO
P02	15.11.19	PL/PL	TYPE 4 MANHOLE ADDED
P01	31.10.19	HJB/PL	PRELIMINARY ISSUE

STATUS:
FOR APPROVAL

CLIENT:
SAVISTA DESIGN AND BUILD

PROJECT:
POUND PLACE
ROUNDSTONE ROAD
ANGMERING

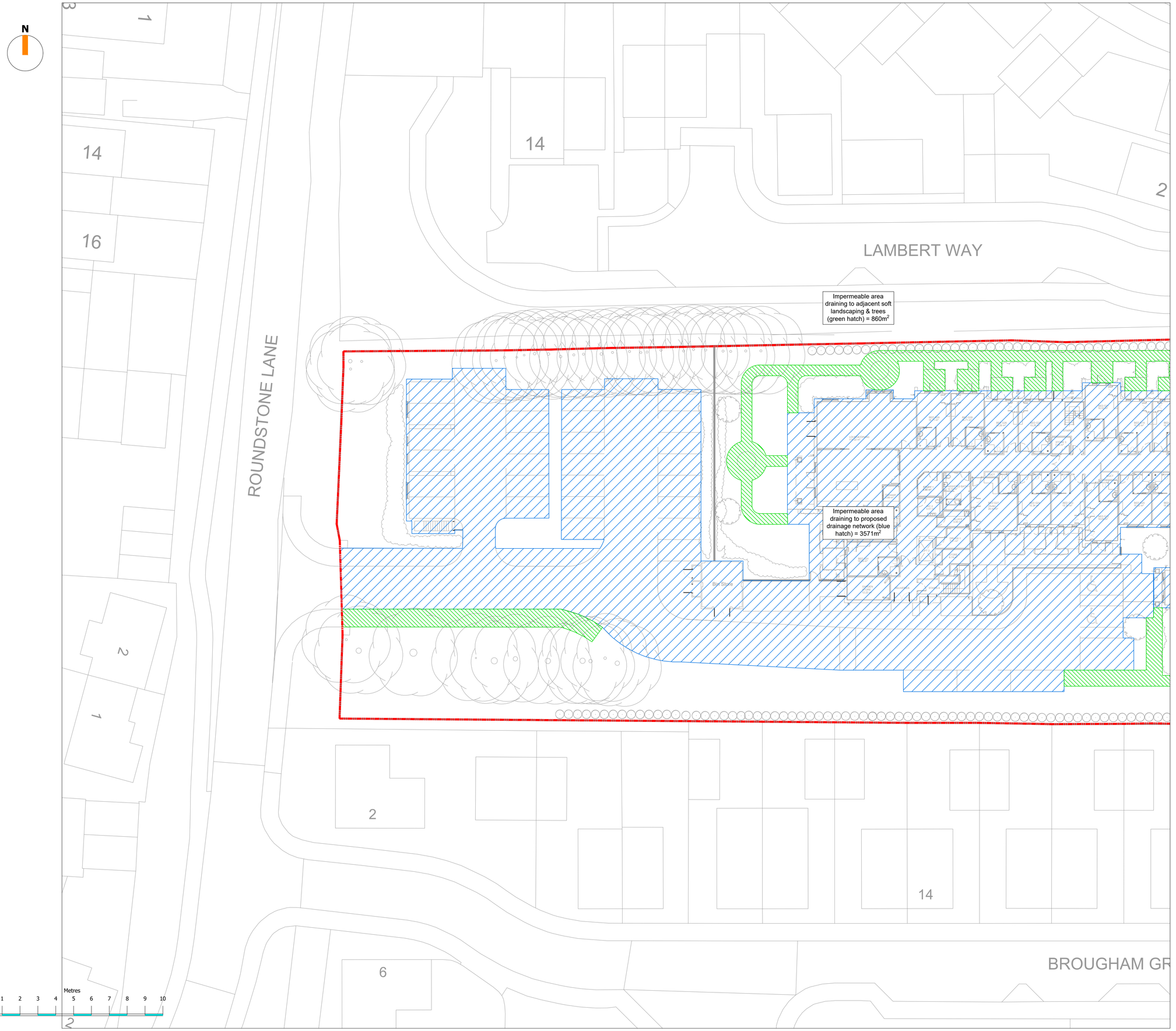
DRAWING TITLE:
PROPOSED DRAINAGE DETAILS (SHEET 1)

JOB NUMBER:	SCALE AT A1:	REV. STATUS:
SE1612	N.T.S.	S1

DRAWING NUMBER: PP-ISS-XX-XX-DR-C-3201 REVISION: P02

iesis STRUCTURES
LONDON 20 IRONMONGER LANE | LONDON | EC2V 8EP | UK T: +44 (0)207 600 2912
BRISTOL 89-95 REDCLIFFE STREET | BRISTOL | BS1 6LU | UK T: +44 (0)117 922 7039
MANCHESTER COMMERCIAL WHARF | 6 COMMERCIAL STREET MANCHESTER, M15 4PZ | UK T: +44 (0)845 643 2741
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ARUN DISTRICT COUNCIL A1/P/20/DC



CONTINUED ON DRG PP-ISS-XX-XX-DR-C-3501

NOTES:

1. Site plan provided by Architect.

REV	DATE	DRAWN/CHK	REVISION INFO
P01	22.11.19	PL/TW	FOR INFORMATION

STATUS:

FOR APPROVAL

CLIENT:

SAVISTA DESIGN AND BUILD

PROJECT:

POUND PLACE
ROUNDSTONE ROAD
ANGMERING

DRAWING TITLE:

PROPOSED
IMPERMEABLE AREAS
SHEET 1 OF 2

JOB NUMBER:	SCALE AT A1:	REV. STATUS:
SE1612	1:200	S2

DRAWING NUMBER: PP-ISS-XX-XX-DR-C-3500 REVISION: P01

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MANCHESTER COMMERCIAL WHARF | 6 COMMERCIAL STREET MANCHESTER, M15 4PZ | UK T: +44 (0)845 643 2741
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N

CONTINUED ON DRG PP-ISS-XX-XX-DR-C-3500

ALEXANDER AVENUE

16

2

15

Impermeable area draining to proposed drainage network (blue hatch) = 3571m^2

Impermeable area draining to adjacent soft landscaping & trees (green hatch) = 860m^2

Hatched area to be made available to the Public at all times

22

32

BROUGHAM GROVE

Metres

0 1 2 3 4 5 6 7 8 9 10

NOTES:

1. Site plan provided by Architect.

REV	DATE	DRAWN/CHK	REVISION INFO
P01	22.11.19	PL/TW	FOR INFORMATION

STATUS:

FOR APPROVAL

CLIENT:

SAVISTA DESIGN AND BUILD

PROJECT:

POUND PLACE
ROUNDSTONE ROAD
ANGMERING

DRAWING TITLE:

PROPOSED
IMPERMEABLE AREAS
SHEET 2 OF 2

JOB NUMBER:	SCALE AT A1:	REV. STATUS:
SE1612	1:200	S2

DRAWING NUMBER: PP-ISS-XX-XX-DR-C-3501 REVISION: P01

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T: +44 (0)207 600 2912

BRISTOL 89-95 REDCLIFFE STREET | BRISTOL | BS1 6LU | UK
T: +44 (0)117 922 7039

MANCHESTER COMMERCIAL WHARF | 6 COMMERCIAL STREET
MANCHESTER, M15 4PZ | UK
T: +44 (0)845 643 2741

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