



NOTE: THE INSTALLATION AND HEALTH AND SAFETY ASPECTS OF THE INSTALLATION - REFER TO MANUFACTURER'S TECHNICAL GUIDE. IF IN DOUBT ASK THE ENGINEER.

BACKFILL TO SUIT DESIGN LOADS
REFER TO GENERAL ARRANGEMENT
DETAIL.

NOTE: SURFACE LOAD
SPECIFICATION TO DETERMINE
TYPE OF CELLULAR SYSTEM
TO BE INSTALLED.

COVER COMPLYING WITH BS EN
124 AND BS 7903.

EITHER: 100mm COARSE SAND CLASS
6H SELECTED GRANULAR MATERIAL
(100% PASSING 5mm SIEVE)

BEDDING LAYER & BACKFILL TO
SURROUND OF TANKS TO BE IN TYPE B
FILTER MATERIAL OR 10mm MIN. SIZE
PEA GRAVEL OR 4-40 CLEAN STONE
AGGREGATE TO BS 7533-13. BACKFILL TO
TERMINATE AT TOP OF SOAKAWAY

IF REQUIRED, LINE THE BASE AND SIDES OF THE
EXCAVATION WITH A PROTECTIVE GEOTEXTILE
BEFORE PLACEMENT OF THE PERMEABLE
GEOMEMBRANE. EXCAVATION SHOULD BE
CARRIED OUT IN ACCORDANCE WITH BS6031,
PAYING PARTICULAR ATTENTION TO SAFETY
PROCEDURES.

ANY SOFT SPOTS SHOULD BE EXCAVATED AND REPLACED
WITH SUITABLE COMPACTED GRANULAR MATERIAL. PLACE
AND COMPACT A MINIMUM 100mm THICK LAYER OF BEDDING
MATERIAL (TYPICALLY COARSE SAND). ALTERNATIVELY SITE
WON MATERIAL CAN BE USED SUBJECT TO APPROVAL BY THE
CIVIL ENGINEER.

THERE IS TO BE A METER TO GROUNDWATER TABLE
"IF LESS CONSULT ENGINEER IMMEDIATELY"

SOAKAWAY TABLE	
UNIT	SIZE
EXTENSION	15m x 3m x 0.42m DEEP

CONFIGURATION TO SUIT DRAINAGE PLAN
LAYOUT DRAWING No 13759_SAB_C500.

PRIVATE SOAKAWAY DETAIL

N.T.S

PLANTING SCHEDULE

PLANTS WITHIN RAISED PLANTERS
(RAINGARDENS) SHOULD BE PLANTED WITH A
SELECTION OF THE FOLLOWING SPECIES AT A
DENSITY OF 4NO PLANTS/m²:

- PURPLE LOOSESTRIPE (LYTHRUM SALICARIA)
- WATER MINT (MENTHA AQUATICA)
- HEMP AGRIMONY (EUPATORIUM CANNABINUM)
- RAGGED ROBIN (LYCHNIS FLOS-CUCULI)
- MARSH WOUNDWORT (STACHYS PALUSTRIS)
- SOFT RUSH (JUNCUS EFFUSUS)
- ROYAL FERN (OSMUNDA REGALIS)
- BUGLE (AJUGA REPTANS)
- CHIVES (ALLIUM SCHOENOPRASUM)
- CHOISYA DEWITTEANA WHITE DAZZLER
- CORNUS STOLONIFERA 'KELSEY'
- CORNUS SANGUINEA 'MIDWINTER FIRE'

RAISED PLANTER INFO			
NAME	LENGTH (METER)	WIDTH (METER)	STORAGE DEPTH REQUIRED ON SURFACE OF RAISED PLANTER (METER)
RP1	18.5m	0.5m	0.190m

1000 OVERFLOW PIPE.

COPING STONE.

PLANTING TO
SPECIFICATION.

MIN. 190mm DEPTH OF STORAGE
REQUIRED ABOVE RAIN GARDEN
SURFACE.

IMPERMEABLE GEOMEMBRANE

100MM BRICKWORK.

ACCESS COVER FOR RODDING -
OSMADRAIN CATALOGUE CODE:
4D290 OSA

87.5" JUNCTION OSMADRAIN
CATALOGUE CODE: 4D190
OSA

2 NO. 45° BENDS
BELOW GROUND
OUTLET

0.500

0.200

9.695

0.150

0.425

9.270

0.100

0.400

0.150

0.100

COPING STONE TO BE MIN 150mm
ABOVE OVERFLOW LEVEL

50MM DEPTH OF 2-6.3MM GRANITE
GRIT DRAINAGE LAYER PROVIDES
0.015M³ STORAGE VOLUME PER M².

100MM GAP BETWEEN RAISED
PLANTER AND BUILDING.

STONE PITCHING SET IN 1:3 S&C
MORTAR BED 75MM THICK LOCAL
TO RWP SHOE.

400MM OF FREE DRAINING
SANDY-LOAM TOPSOIL WITH 10%
PAS1: 0.07M³ STORAGE VOLUME
PER M².

1000 PERFORATED
PIPE.

TERRAM 1000 SEPARATION LAYER
WITH 300MM LAPS AT JOINTS.

150MM DEPTH OF 4-20 CRUSHED
STONE DRAINAGE LAYER

RAISED PLANTER DETAIL

SCALE 1:10

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
3. DO NOT SCALE FROM THE DRAWING. USE FIGURED DIMENSIONS ONLY.
4. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
5. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
6. EXISTING SERVICES HAVE NOT BEEN SHOWN BUT ARE PRESENT - THE CONTRACTOR IS TO LIAISE WITH ALL STATUTORY AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY WORKS.

FOR DRAINAGE LAYOUT PLEASE
SEE DRG. 13759_SAB_C500.

APPROVAL

NOTES:

1. MH COVERS AND FRAMES TO CONFORM TO BS EN 124:
-HIGHWAYS AND FOOTWAYS TO FRONT OF BUILDINGS (D400)
-FOOTWAYS TO REAR OF BUILDINGS (C250)
2. TYPE S BEDDING AND SURROUND TO ALL PIPES EXCEPT IN THE FOLLOWING CIRCUMSTANCES, IN WHICH TYPE Z BEDDING AND SURROUND ARE TO BE USED:
-IN BACK GARDENS OF HOUSES WHERE DEPTH TO CROWN OF PIPE IS LESS THAN 0.35m.
-IN AREAS OF THE REAR OF FLATS AND PARKING WHERE DEPTH TO CROWN IS LESS THAN 0.9m.
-IN AREAS OF ROAD WHERE DEPTH IS LESS THAN 1.2m.
3. ALL EXISTING MANHOLE INVERTS TO BE CHECKED AND REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF DRAINAGE WORKS. EXISTING PIPE CONNECTIONS ARE TO BE CCTV SURVEYED AND INSPECTED BY THE ENGINEER AND LOCAL AUTHORITY. IF THE PIPE CONNECTION IS FOUND TO BE DAMAGED OR IN DISTRESS, THE CONTRACTOR IS TO CARRY OUT REMEDIAL WORKS OR PROVIDE A NEW CONNECTION TO THE EXISTING SEWER (PIPE SIZE AND GRADIENT TO BE DETERMINED BY THE ENGINEER.
4. THE GRADIENTS INDICATED AGAINST THE DRAIN RUNS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL INSTALL DRAINS TO THE INVERT LEVELS SHOWN FOR EACH MANHOLE OR OTHER INDICATED POSITION.
5. ALL PLOT FOUL DRAINAGE TO BE MINIMUM 100mm DIAMETER UNLESS OTHERWISE NOTED.
6. ALL ADOPTABLE THERMOPLASTIC STRUCTURED WALL SEWER PIPE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 13476-1 AND WIS 4-35-01 AND BS EN 13476-2 OR BS EN 13476-3. PIPES SHALL BE BSI KITEMARKED OR HAVE EQUIVALENT THIRD PARTY CERTIFICATION. PIPES LESS THAN OR EQUAL TO 500mm DIA. SHALL HAVE A SHORT-TERM RING STIFFNESS OF NOT LESS THAN 8kNm² (SN8).
7. ALL JOINTING IN ACCORDANCE WITH MANUFACTURERS TECHNICAL ADVICE & SPECIFICATION.
8. ALL NON ADOPTABLE DRAINAGE TO BE THE STANDARD UPVC 110mm, 160mm DRAINAGE AND MANUFACTURED TO BS-EN 1401 AND BS 4660 UNLESS NOTED OTHERWISE.
9. ALL PERMEABLE PAVING CELLS TO HOUSE LATERAL FIN DRAIN ALONG LOWER EDGE WITH 1500 CONNECTION PIPE.
10. ALL STORM WATER DRAINAGE TO BE A MINIMUM OF 150mm DIAMETER UNLESS OTHERWISE NOTED.
11. SOIL & VENT PIPE LOCATION AND NUMBER TO BE CONFIRMED WITH ARCHITECT.
12. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS, TOGETHER WITH THEIR LATEST SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER (VALE CONSULTANCY) AS SOON AS POSSIBLE.
13. FIGURED DIMENSIONS ONLY TO BE USED. ANY QUERIES OR DISCREPANCIES TO BE REFERRED TO THE ENGINEER (VALE CONSULTANCY) IMMEDIATELY.
14. PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR IS TO CONFIRM MANUFACTURER/PIPE MATERIAL AND GRADE PROPOSED WITH WATER AUTHORITY.
15. TEMPORARY WORKS DESIGN BY OTHERS.
16. DESIGN RISK ASSESSMENTS AND METHOD STATEMENTS ARE TO BE PROVIDED TO THE PRINCIPLE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORKS.

04	SU	FP	MJ	11.04.22	RAISED PLANTER DIMENSIONS & STORAGE AMENDED TO REFLECT NEW SITE LAYOUT.
03	SU	FP	MJ	29.03.22	PLANTING SCHEDULE & STORAGE ABOVE RP AMENDED.
02	SU	FP	MJ	29.03.22	SOAKAWAY DEPTH AMENDED.
01	SU	FP	MJ	15.03.22	ISSUED FOR APPROVAL.

rev.	drawn	chkd.	approved	date	description
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Client
CORNELIUS ELECTRONICS LTD

Project
CORNELIUS ELECTRONICS EXTENSION,
PURCELL AVENUE,
PORT TALBOT

Title
SAB DRAINAGE DETAILS



date	drawn	checked	approved
15.03.22	SU	FP 15.03.22	MJ 15.03.22

scale @ A1	project no.
1:20/10	13759

status	drg. no.	rev.
A	13759_SAB_C501	04

