



IMAGE OF RAISED PLANTER

- DISUSED SEWERS**
- EXISTING SEWERS WHICH ARE OR WILL BE DISUSED ARE TO BE TRACED, AND ANY DRAIN WHICH SHOWS SIGNS OF FLOW SHOULD BE INVESTIGATED TO ESTABLISH ITS ORIGIN AND AUTHENTICITY, AND REPORTED TO THE ENGINEER.
- ABANDONMENT OF SEWERS**
- NO SEWER SHALL BE ABANDONED UNTIL THE CONTRACTOR HAS CONFIRMED THAT THERE ARE NO LIVE CONNECTIONS REMAINING.
 - NO CONSTRUCTION WORKS SHALL COMMENCE OVER OR WITHIN 6 METRES OF ANY SEWER THAT IS TO BE ABANDONED UNTIL THAT SEWER HAS BEEN FILLED AND SEALED WITH PFA/OPC GROUT TO THE SATISFACTION OF THE HIGHWAY AUTHORITY.
 - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE COST OF REMOVING ANY GROUT THAT HAS ACCIDENTALLY OR OTHERWISE AFFECTED ANY SEWER/DRAIN THAT IS NOT TO BE ABANDONED.
 - SEWER GROUTING SHALL CONSIST OF PFA MIXED WITH OPC RATIO 20:1 TO ENSURE A MIX THAT CAN BE PUMPED INTO THE SEWER. MIX STRENGTH 0.7 N/mm SQ. AT 28 DAYS.
 - ENDS OF THE SEWER SHALL BE SEALED WITH 225mm THICK BRICKWORK WALLS WITH SUITABLE PIPE CONNECTIONS FOR GROUT INJECTION. SACRIFICIAL STOPPERS MAY BE USED ON SMALL DIAMETER SEWERS.
 - SEWERS/DRAINS LESS THAN 7M IN DEPTH MAY BE "GRUBBED-UP" AND REMOVED.

DRAINAGE LEGEND

- PROPOSED SURFACE WATER DRAINAGE WITH PIPE SIZE AND GRADIENT (SEE LAYOUT)
- PROPOSED FOUL WATER DRAINAGE WITH PIPE SIZE AND GRADIENT (SEE LAYOUT)
- EXISTING DRAINAGE TO BE ABANDONED
- EXISTING COMBINED DRAINAGE
- EXISTING SURFACE WATER DRAINAGE
- EXISTING FOUL WATER DRAINAGE
- DENOTES PRIVATE FW DRAINAGE
- DENOTES PRIVATE SW DRAINAGE
- RWP: PROPOSED RAINWATER PIPE
- RWD: PROPOSED RAINWATER DROP PIPE
- SVP: PROPOSED SOIL & VENT PIPE
- DENOTES FLOW CONTROL CHAMBER
- LINE DRAINAGE SYSTEM ACO MD200 OR SIMILAR APPROVED WITH RODDING ACCESS AND SUMP OULLET
- GEO-CELLULAR TANK 1 IN 100 YEAR EVENT WITH ACCESS POINTS
- RAISED PLANTER
- FIN DRAIN WITH FIN DRAIN OUTLET
- PERMEABLE PAVING
- COMBINED DRAINAGE

- NOTES:**
- MH COVERS AND FRAMES TO CONFORM TO BS EN 124:
-HIGHWAYS AND FOOTWAYS TO FRONT OF BUILDINGS (D400)
-FOOTWAYS TO REAR OF BUILDINGS (C250)
 - 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.
 - 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.
 - 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.
 - ALL PLOT FOUL DRAINAGE TO BE MINIMUM 100mm DIAMETER UNLESS OTHERWISE NOTED AND FALLS TO COMPLY WITH CURRENT BUILDING REGULATIONS.
 - ALL ADOPTABLE THERMOPLASTIC STRUCTURED WALL SEWER PIPE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 13476-1 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).
 - ALL JOINTING IN ACCORDANCE WITH MANUFACTURERS TECHNICAL ADVICE & SPECIFICATION.
 - ALL NON ADOPTABLE DRAINAGE TO BE THE STANDARD UPVC 110mm, 160mm DRAINAGE AND MANUFACTURED TO BS-EN 1401 AND BS 4660 UNLESS NOTED OTHERWISE.
 - ALL STORM WATER DRAINAGE TO BE A MINIMUM OF 150mm DIAMETER UNLESS OTHERWISE NOTED.
 - SOIL & VENT PIPE & RAINWATER PIPE LOCATIONS AND NUMBER TO BE CONFIRMED WITH ARCHITECT.
 - 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.
 - FIGURED DIMENSIONS ONLY TO BE USED. ANY QUERIES OR DISCREPANCIES TO BE REFERRED TO THE ENGINEER (VALE CONSULTANCY) IMMEDIATELY.
 - PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR IS TO CONFIRM MANUFACTURER/PIPE MATERIAL AND GRADE PROPOSED WITH WATER AUTHORITY.
 - TEMPORARY WORKS DESIGN BY OTHERS.
 - DESIGN RISK ASSESSMENTS AND METHOD STATEMENTS ARE TO BE PROVIDED TO THE PRINCIPLE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORKS.
 - EXISTING SERVICES HAVE NOT BEEN SHOWN BUT ARE PRESENT - THE CONTRACTOR IS TO LAISE WITH ALL STATUTORY AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY WORKS.

PRELIMINARY

01	RGP	SH	LR	15/07/21	Preliminary issue
rev.	drawn	chd.	appd.	date	description

Client
RHONDDA HOUSING ASSOCIATION

Project
**RESIDENTIAL DEVELOPMENT
122-126 DUNRAVEN STREET
TONYPANDY**

Title
DRAINAGE CONCEPT



date	drawn	checked	approved
15.07.21	RGP	SH 15/07/21	LR 15/07/21

scale @ A1
1:100

project no.
11722

status	dr. no.	rev.
P	11722/500	01

DRAWING STATUS
A - Approval, AB - As-Built, C - Construction, D - Draft, P - Preliminary, T - Tender



IMAGE OF SWALE



IMAGE OF DECORATIVE RAIN GARDEN

