



LEGEND

- TARMAC PRIVATE ROAD
- RAINGARDEN
- GRAVEL DRIVEWAY WITH COURSE GRADED AGGREGATE SUB-BASE
- PERMEABLE BLOCK PAVING
- TRADITIONAL BLOCK PAVING (SERVICE CORRIDOR)
- PAVING SLABS TO ARCHITECTS REQUIREMENTS
- LAWN
- PROPOSED LEVEL
- SITE BOUNDARY
- PLOT BOUNDARY
- SAB BOUNDARY

DRAINAGE LEGEND

- EXISTING COMBINED DRAINAGE
- ADOPTABLE FW DRAINAGE
- PRIVATE FW DRAINAGE
- PRIVATE SW DRAINAGE
- ADOPTABLE SW DRAINAGE (SAB)
- ORIFICE FLOW CONTROL CHAMBER
- DENOTES PERFORATED PIPE
- PROPOSED RAINWATER PIPE
- LINE DRAIN ACO OR SIMILAR
- PRECAST OR COBBLESTONE DISH CHANNEL
- GEOCELLULAR ATTENUATION TANK POLYSTORM O.S.A
- EXISTING CULVERT
- OVERFLOW / INSPECTION TUBE

NOTES:

- MH COVERS AND FRAMES TO CONFORM TO BS EN 124: -HIGHWAYS AND PUBLIC CAR PARKS (D400) -LIGHTLY TRAFFICKED ROADS AND PRIVATE CAR PARKS (C250) -DOMESTIC DRIVEWAYS (B125)
- TYPE S BEDDING AND SURROUND TO ALL PIPES EXCEPT IN THE FOLLOWING CIRCUMSTANCES, IN WHICH TYPE Z BEDDING AND SURROUND ARE TO BE USED:
  - DOMESTIC GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS, 0.35m;
  - DOMESTIC DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.5m;
  - DOMESTIC DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (E.G., MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.9m;
  - AGRICULTURAL LAND AND PUBLIC OPEN SPACE, 0.9m;
  - OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 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. 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 CONTRACTOR SHALL INSTALL DRAINS TO THE INVERT LEVELS SHOWN FOR EACH MANHOLE OR OTHER INDICATED POSITION.
- ALL FOUL DRAINAGE TO BE MINIMUM 100mm DIAMETER AND LAID TO THE INVERT LEVELS SHOWN OR A MINIMUM 1 IN 100 FALL, UNLESS OTHERWISE NOTED.
- ALL STORM WATER DRAINAGE TO BE A MINIMUM OF 150mm DIAMETER AND LAID TO THE INVERT LEVELS SHOWN OR A MINIMUM 1 IN 150 FALL, UNLESS OTHERWISE NOTED.
- 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 8kN/m<sup>2</sup> (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.
- SOIL & VENT PIPE LOCATION 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 AS SOON AS POSSIBLE.
- FIGURED DIMENSIONS ONLY TO BE USED. ANY QUERIES OR DISCREPANCIES TO BE REFERRED TO THE ENGINEER.
- PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR IS TO CONFIRM MANUFACTURER/PIPE MATERIAL AND GRADE PROPOSED WITH WATER AUTHORITY.
- DESIGN RISK ASSESSMENTS AND METHOD STATEMENTS ARE TO BE PROVIDED TO THE PRINCIPLE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- THE DEVELOPER MUST SELF-VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED ADOPTABLE SEWERS ARE IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION, THE REQUIREMENTS OF DCWW AS THE STATUTORY SEWERAGE UNDERTAKER AND THE WELSH MINISTERS BUILD STANDARDS.

|      |       |      |       |          |          |                                                         |
|------|-------|------|-------|----------|----------|---------------------------------------------------------|
| 02   | FP    | MJ   | MJ    | 13.05.21 | 17.11.22 | Plot 4 driveway changed from permeable paving to gravel |
| 01   | FP    | MJ   | MJ    | 13.05.21 | 07.11.22 | Issue for SAB approval                                  |
| rev. | drawn | chd. | appd. | date     |          | description                                             |

Client  
MAXIMOM

Project  
LAND OFF UPPER COLLIERS ROW,  
HEOLGERRIG, MERTHYR TYDFIL,  
CF48 1UN

Title  
DRAINAGE PLAN

**Vale Consultancy**  
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|            |       |             |          |
|------------|-------|-------------|----------|
| date       | drawn | checked     | approved |
| 11.05.21   | FP    | MJ          | MJ       |
| scale @ A1 |       | project no. |          |
| 1:250      |       | 11188       |          |

|        |           |      |
|--------|-----------|------|
| status | drg. no.  | rev. |
| A      | 11188_500 | 02   |

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