



- DRAINAGE NOTES**
1. ALL PRIVATE DRAINAGE SHALL BE IN ACCORDANCE WITH BS8301 AND RELEVANT SECTIONS OF APPROVED DOCUMENT H OF THE BUILDING REGULATIONS.
 2. THE CONTRACTOR IS TO CHECK THE LEVEL OF EXISTING SEWERS BEING USED AS OUTFALLS OR CROSSING PROPOSED DRAINAGE RUNS PRIOR TO LAYING ANY PIPES. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER.
 3. ALL CONNECTIONS FOR PRIVATE DRAINAGE SHALL BE 150mm UNLESS NOTED OTHERWISE AND MUST EXTEND 500mm BEHIND THE BACK OF FOOTWAY/HOMEZONE ROAD. ALL CONNECTIONS WHEN LAID SHALL BE PLUGGED, PROTECTED AS NECESSARY AND MARKED WITH A STAKE FOR FUTURE USE. ALL FW DRAINAGE LATERALS FROM THE ADOPTABLE DRAINAGE SYSTEM TO BE 100mm. FOR PRIVATE DRAINS WHERE COVER TO PIPES IS LESS THAN 900mm IN VEHICULAR AREAS OR 600mm IN OTHER AREAS PROTECTION IN THE FORM OF A 100mm THICK CONCRETE SURROUND.
 5. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS LINTELS ARE TO BE PROVIDED OVER. UNDER BUILDINGS PIPES SHALL BE SURROUNDED WITH 150mm THICKNESS OF GRANULAR MATERIAL. WHERE DRAINS PASS WITHIN 1m OF BUILDINGS THE WALL FOUNDATION SHALL BE TAKEN DOWN BELOW THE INVERT OF THE PIPE.
 6. WHERE DRAINS DO NOT EXCEED 600mm DEEP. PLASTIC OR CLAY ACCESS FITTINGS MINIMUM DIAMETER 225mm SHALL BE USED. ELSEWHERE PROPRIETARY PLASTIC OR PRECAST CONCRETE INSPECTION CHAMBERS SHALL BE USED.
 7. ALL GULLIES AND RAINWATER DOWNPIPES CONNECTED DIRECTLY TO DRAINS ARE TO BE RODDABLE.
 8. LEVELS AT DRAINAGE ACCESS POINTS ARE INVERTS.
 9. WHERE POSSIBLE, DRAINAGE RUNS SHOULD BE LAID AT A MINIMUM OF 3.0m FROM THE REAR OF PROPERTIES WHERE PRACTICAL TO ALLOW FOR FUTURE EXTENSIONS.
 10. ALL BRANCH DRAINS, OR CONNECTIONS, ARE TO DISCHARGE TO THE COLLECTORS OBLIQUELY, AND IN THE DIRECTION OF THE MAIN FLOW.
 11. ALL ADOPTABLE SURFACE WATER LATERALS ARE TO BE 150mm UNLESS NOTED OTHERWISE.
 12. ALL ADOPTABLE FOUL LATERALS ARE TO BE 100mm UNLESS NOTED OTHERWISE.
 13. ALL PRIVATE FOUL CHAMBERS IMMEDIATELY OUTSIDE THE PROPERTY ARE TO BE A MINIMUM OF 750mm FROM THE FFL OR 600mm FROM THE EXTERNAL LEVEL.
 14. ALL DRAINAGE TO BE ADOPED UNDER A SECTION 104 AGREEMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH 'SEWERS FOR ADOPTION 7TH EDITION' INCLUDING THE DCWW ADDENDUMS.
 15. REFER TO MANHOLE SCHEDULES FOR FURTHER INFORMATION.
 16. ALL MANHOLE USED TO LATERAL DRAINS ARE TO BE EITHER TYPE 3 OR 4.
 17. ALL LATERALS OF 100mm DIAMETER ARE TO HAVE A MINIMUM GRADIENT OF 1 IN 80 AND A MAXIMUM GRADIENT OF 1 IN 5.
 18. ALL PIPE CONNECTIONS ARE TO BE SOFFIT TO SOFFIT CONNECTIONS UNLESS OTHERWISE SPECIFIED.

- GENERAL NOTES**
1. DO NOT SCALE
 2. THE CONTRACTOR IS TO CHECK AND VERIFY ALL BUILDINGS AND SITE DIMENSIONS AND LEVELS, INCLUDING SEWER INVERT LEVELS, BEFORE WORKS START ON SITE. THE CONTRACTOR IS TO COMPLY IN ALL ASPECTS WITH THE CURRENT BUILDING LEGISLATION, BRITISH STANDARDS, BUILDING REGULATIONS ETC.
 3. POSITIONS OF EXISTING SERVICES/STATUTORY UNDERTAKERS APPARATUS ADJACENT TO OR CROSSING PROPOSED EXCAVATIONS ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO STARTING WORK
 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH AND CHECKED AGAINST ALL OTHER DRAWINGS, ENGINEERING DETAILS, SPECIFICATION AND ANY STRUCTURAL, GEOTECHNICAL OR OTHER SPECIALIST DOCUMENT PROVIDED.
 5. ANY ANOMALY OR CONTRADICTION BETWEEN ANY OF THE ABOVE IS TO BE REPORTED TO THE DEVELOPER.
 6. THIS DRAWING IS SCHEMATIC FOR CLARITY ONLY. POSITIONS OF PIPE RUNS AND MANHOLES MAY VARY ON SITE DUE TO SITE CONDITIONS.

- KEY**
- EXISTING DCWW COMBINED SEWER
 - EXISTING MAIN DCWW WATER SEWER
 - MAIN FOUL SEWER (DCWW ADOPTABLE)
 - MAIN SURFACE WATER SEWER (SAB ADOPTABLE)
 - SURFACE WATER SEWER (PRIVATE)
 - FOUL LATERAL SEWER (PRIVATE)
 - FOUL LATERAL SEWER (PRIVATE)
 - PRIVATE BACK DROP (MAX 1.5m)
 - PRIVATE PERFORATED 100ø PIPE
 - MACRO PERVIOUS PAVING (ATTENUATION) (TYPE 3 SUB-BASE 30% VOIDS) (PRIVATE)
 - MACRO PERVIOUS PAVING (TYPE 3 SUB-BASE 30% VOIDS) (PRIVATE)
 - BIORETENTION GARDEN (PRIVATE)
 - PRIVATE FILTER STRIP
 - OUTLINE OF PERMAVOID TANK
 - FIN DRAIN WITH TOP HAT OUTLET (PRIVATE)
 - DISTRIBUTION BOX (PRIVATE)
 - DISTRIBUTION BOX WITH BACK DROP CONNECTION (PRIVATE)
 - PRIVATE ACO DRAIN
 - PRIVATE RODDING EYE
 - GULLY CRATE CHAMBER
 - SUB BASE FORMATION LEVEL
 - RISING MAIN
 - RAIN WATER PIPE TO DISCHARGE ON SURFACE
 - DISH CHANNEL

SEWER ADOPTION NOTES
ALL WORKS FOR ADOPTION UNDER A SECTION 104 AGREEMENT SHALL BE CARRIED OUT TO THE NATIONAL WATER COUNCIL GUIDE 'SEWERS FOR ADOPTION' 7TH EDITION AND DWR CYMRU WELSH WATER'S REQUIREMENTS.

APPROVED DWR CYMRU WELSH WATER PLASTIC PIPE SYSTEMS (150mm-300mm) ARE AS FOLLOWS:

- MARLEY TWINWALL SYSTEM
- UPONOR ULTRARIB SYSTEM
- OSMA ULTRARIB SYSTEM
- POLYSEWER TWINWALL SYSTEM
- POLYPIPES - RIGISEWER (400mm-600mm AND 750mm-900mm)

PLEASE NOTE THAT THE INSTALLER MUST BE ACCREDITED WITH THE BRITISH PLASTICS FEDERATION (BPF).

OUTFALL INVERT TO REMAIN THE SAME, FLAP VALVE TO BE UPSIZED TO 300mm TO ACCOMMODATE NEW PIPE DIAMETER

EXISTING PIPE TO BE RE-GRADED TO SUIT NEW INVERT LEVELS.

COVER LEVEL IS INDIATIVE FOR NOW. COVER LEVEL TBC PRIOR TO CONSTRUCTION OF WORKS.

PIPE WORK TO BE UPGRADED FROM A 225ø TO 300ø PIPE.

EXISTING INVERT OF MANHOLE TO BE DROPPED 900mm SUBJECT TO AGREEMENT FROM CAERPHILLY COUNTY COUNCIL.

HYDROBRAKE MODEL MD-SHE-0074-2100-0660-2100 TO RESTRICT DISCHARGE RATE TO 2.1l/s

PERMAVOID 150+85 ATTENUATION TANK 2 SITUATED UNDERNEATH SUB BASE. CL-252.70-251.60 TOT-251.035 IL-250.800 TOTAL STORAGE 47m³

ORIFICE CONTROFLOW 500 SERIES CHAMBER TO BE FITTED WITH 20mm PLATE.

PUMPING PACKAGE STATION. T T PUMPS JUPITER DUAL PUMP. PS1 INVERT LEVEL - 250.80m

PERMAVOID 450 ATTENUATION TANK 1 SITUATED UNDERNEATH SUB BASE. CL-253.40-253.00 TOT-251.95 IL-251.50 TOTAL STORAGE 48m³

INVERT LEVEL UNKNOWN. INVERT LEVEL TBC PRIOR TO CONSTRUCTION OF WORKS.

D	18.12.23	MINOR AMENDMENTS MADE TO SUIT LATEST LAYOUT.
C	09.11.23	MINOR AMENDMENTS MADE TO SUIT LATEST LAYOUT.
B	06.10.23	MINOR AMENDMENTS MADE TO SUIT LATEST LAYOUT.
A	05.08.22	MINOR AMENDMENTS MADE TO DRAINAGE RUNS

Project: Land off Sir Dafydd Avenue Oakdale

Client: CASTELL GROUP
Property Development Specialists

Drawing: Proposed Drainage Layout

Scale: 1:200 @ A1 Date: June 2022 Drawn by: JM

Drawing No: 10336-102 Rev: D

PHOENIX DESIGN
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Drg Status: FOR APPROVAL