



- KEY**
- PROPOSED FINISHED FLOOR LEVEL
 - RETAINING WALL (HEIGHT SHOWN IS REQUIRED RETAINING HEIGHT AND DOES NOT INCLUDE HEIGHT OF BOUNDARY WALLS OR FENCES)
 - GRAVEL BOARD 300MM MAX
 - LANDSCAPED BATTER MAXIMUM 1:2
 - TANKED WALL
 - UNDERBUILD (ADDITIONAL BELOW DPC LEVEL)
 - STEPPED ACCESS (PART M)
 - TIMBER STEPS WITHIN GARDEN BANKS (NO. SHOWN)
 - SPOT LEVEL
 - PROPOSED CONTOURS

CDM
 CONSTRUCTION OF PLOT AND RETENTION IN CLOSE PROXIMITY TO EXISTING WATERCOURSE/DITCH
 STRUCTURAL ENGINEER TO ACCOMMODATE THIS WITHIN FOUNDATION DESIGN
 ANY WORKS REQUIRED FOLLOWING INSTALLATION TO BE REVIEWED BY STRUCTURAL ENGINEER

- 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 BOW SOUTH WALES.
 6. THIS DRAWING IS SCHEMATIC FOR CLARITY ONLY. POSITIONS OF PIPE RUNS AND MANHOLES MAY VARY ON SITE DUE TO SITE CONDITIONS.
 7. SUBSOIL TO GARDEN AREAS TO BE BROKEN UP PRIOR TO TOP SOILING.

- DRAINAGE NOTES**
1. ALL PRIVATE DRAINAGE SHALL BE IN ACCORDANCE WITH BS8001 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 SURFACE WATER LATERAL PIPES TO BE 150MM DIAMETER UNLESS SHOWN OTHERWISE.
 4. ALL FOLI WATER LATERAL PIPES TO BE 100MM DIAMETER UNLESS SHOWN OTHERWISE.
 5. PRIVATE HOUSE DRAINAGE WILL BE FLEXIBLY JOINTED PLASTIC OR CLAY PIPEWORK. DIAMETER 100MM UNLESS SHOWN OTHERWISE.
 6. ALL CONNECTIONS FOR HOUSE DRAINAGE SHALL BE 100MM UNLESS NOTED OTHERWISE AND MUST EXTEND 500MM BEHIND THE BACK OF FOOTING/HOMEZONE ROAD. ALL CONNECTIONS WHEN LAD SHALL BE PLUGGED, PROTECTED AS NECESSARY AND MARKED WITH A STAKE FOR FUTURE USE. ALL DRAINAGE LATERALS FROM THE ADAPTABLE DRAINAGE SYSTEM TO BE 150MM DIA. UNLESS CONNECTING TO THE HEAD OF A 100MM DIA. PIPES.
 7. 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 PAD SHALL BE PROVIDED OVER THE PIPE GRANULAR SURROUND.
 8. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS UNITS 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.
 9. WHERE DRAINS DO NOT EXCEED 900MM DEPTH PLASTIC OR CLAY ACCESS FITTINGS MINIMUM DIAMETER 225MM SHALL BE USED. ELSEWHERE PROPRIETARY PLASTIC OR PRECAST CONCRETE INSPECTION CHAMBERS SHALL BE USED UNLESS SHOWN OTHERWISE. F.W INSPECTION CHAMBERS ARE TO BE 750MM BELOW DPC LEVEL AND SW CHAMBERS AND ROOFING EYES TO BE 450MM BELOW DPC.
 10. ALL GULLIES AND RAINWATER DOWNPIPES CONNECTED DIRECTLY TO DRAINS ARE TO BE ROADABLE.
 11. HOUSE LEVELS SHOWN ARE DPC AND ADJACENT GARAGE FLOORS ARE TO BE 150MM LOWER UNLESS SHOWN OTHERWISE. LEVELS AT DRAINAGE ACCESS POINTS ARE INVERTS.
 12. DRAINAGE RUNS SHOULD BE LAID AT A MINIMUM OF 5.0M FROM THE REAR OF PROPERTIES WHERE PRACTICAL TO ALLOW FOR FUTURE EXTENSIONS.
 13. ALL DRAINAGE SHALL BE LAID UPSTREAM AND EACH RUN BETWEEN MANHOLES SHALL BE LAID COMPLETE PRIOR TO BACKFILLING. WHERE THIS IS NOT PRACTICAL TIAL HOLES OR OTHER MEANS OF IDENTIFYING THE LINE AND LEVEL OF SERVICES SHALL BE CARRIED OUT PRIOR TO WORKS COMMENCING.
 14. ALL BRANCH DRAINS, OR CONNECTIONS, ARE TO DISCHARGE TO THE COLLECTORS OBVIOUSLY, AND IN THE DIRECTION OF THE MAIN FLOW.
 15. ALL LOW SPOTS ON HARDSTANDING AREAS TO HAVE YARD GULLIES/ACC.

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 CMRNU WELSH WATER'S REQUIREMENTS.

- APPROVED DWR CMRNU WELSH WATER PLASTIC PIPE SYSTEMS ARE AS FOLLOWS:
- MARLEY TWINWALL SYSTEM
 - UPPIER ULTRARIB SYSTEM
 - OSAM ULTRARIB SYSTEM
 - POLYSEWER TWINWALL SYSTEM
 - POLYPIPES - RIGIDWECR (400mm-600mm AND 750mm Ø)

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

STEPS, RAMPS OR PATHS SHOWN TO HOUSE/BLOCK ACCESS ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE DURING CONSTRUCTION.

P4 12.04.2021 Engineering to Plot 10 updated
 P5 09.08.2021 Layout updated. Plot 108 added to suit
 P6 07.04.2021 Layout updated. Engineering updated to suit
 P7 11.02.2021 Minor Amendments per Client request
 Revisions

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 Client: **BARRATT** **PHOENIX DESIGN PARTNERS LTD**
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