



**WELSH WATER NOTES:**

1. 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 THOSE SET OUT IN THE WELSH MINISTERS STANDARDS, SEWERS FOR ADOPTION 7TH EDITION AND THE REQUIREMENTS OF DWR CYMRU WELSH WATER AS THE STATUTORY SEWERAGE UNDERTAKER. A NOTE DETAILING THIS STATEMENT MUST BE INCORPORATED ON ALL ADOPTION DRAWINGS.
2. WHERE A CONNECTION TO THE PUBLIC SEWER IS REQUIRED PLEASE INCORPORATE A NOTE ON THE SECTION 104 LAYOUT DRAWING STATING THAT "UPON COMPLETION OF THE SECTION 104 ADOPTION AGREEMENT, A SECTION 106 APPLICATION TO CONNECT MUST BE MADE TO DCWW. THE DEVELOPER SHALL GIVE 21 DAYS' NOTICE PRIOR TO CONNECTION. THE WORKS MAY ONLY BE UNDERTAKEN BY A SIPS ACCREDITED CONTRACTOR COMPLYING WITH DWR CYMRU WELSH WATER'S ACCESS TO ASSETS POLICY."
3. "ALL ADOPTABLE SEWERS OR LATERAL DRAINS ARE TO BE LAID AT A MAXIMUM GRADIENT OF 1:5. WHERE SITE LAYOUT DICTATES A RAMPED BACKDROP MAY BE UTILISED, ALTHOUGH STEEPER GRADIENTS ARE PREFERRED, AND SHOULD BE PROVIDED WHERE PRACTICABLE."



**NOTES**

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
3. ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
5. ALL MATERIALS AND WORKMANSHIP WILL BE AS SPECIFIED IN THE SPECIFICATION UNLESS NOTED OTHERWISE.
6. ALL LEVELS, DIMENSIONS AND LOCATIONS ARE TO BE CHECKED BY THE MAIN CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK ON SITE.
7. ALL HIGHWAY WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE HIGHWAYS AGENCY SPECIFICATION FOR HIGHWAY WORKS AND AS AMENDED IN THE CLAUSES AND APPENDICES IN THE "SPECIFICATION OF CONTRACT DOCUMENTS".
8. ALL ROAD MARKINGS TO COMPLY WITH THE TRAFFIC SIGNS REGULATIONS & GENERAL DIRECTIONS 2016.
9. ALL ADOPTABLE DRAINAGE WORKS HAVE BEEN DESIGNED AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH "SEWERS FOR ADOPTION 7TH EDITION" AND "WELSH WATER SUPPLEMENT GUIDELINES AND STANDARD DETAILS".
10. ALL CLAY PIPE WORK SHALL BE EXTRA STRENGTH CLAYWARE TO B.S EN 295:1991 PART 1.
11. ALL PRECAST CONCRETE PIPEWORK SHALL BE TO THE CLASS STATED ON THE DRAWINGS IN ACCORDANCE WITH B.S EN 4660:2000 & B.S EN 1916:2002 ALSO. ALL MANHOLES AND CHAMBERS SHALL BE TO B.S EN 1917:2002.
12. THE CONTRACTOR MAY ELECT TO USE REINFORCED PVC PIPES AS CONVERTED BY B.S EN 4660:2000 & B.S EN 1916:2002 WITH WIS 4-35-01 UP TO AND INCLUDING 300mm. (BY PRIOR AGREEMENT WITH ADOPTING AUTHORITY) MAX PIPE LENGTH TO BE 3.0m.
13. ANY SEWER FOR ADOPTION WITH LESS THAN 1.2m COVER IN ROADS OR 0.9m COVER IN FIELDS SHALL HAVE A MINIMUM OF 150mm ST4 CONCRETE SURROUND.FLEXIBILITY SHALL BE MAINTAINED BY THE PROVISION OF FLEXCELL OR SIMILAR APPROVED JOINT FILLER BREAKS IN THE CONCRETE SURROUND AT EACH PIPE JOINT.
14. THIS DRAWING HAS BEEN BASED UPON SURVEY / OS INFORMATION SUPPLIED BY GREEN HATCH GROUP AND ROYAL HASKONING DHV SHALL NOT BE LIABLE FOR ANY INACCURACY OR DEFICIENCIES ARISING FROM IT.
15. ALL INSPECTION CHAMBERS (PPIC) TO BE POLYPIPE 480mm, 150mm CHAMBER BASE OR SIMILAR APPROVED.
16. ALL ADOPTABLE PIPES LAID UNDER TREE CANOPIES MUST HAVE ROOT PROTECTION. FOR DETAIL REFER TO PIPE BEDDING DETAILS ON DRAWING PB859-RHD-DE-11-DR-D-5100.



**REVISIONS**

REV	DATE	DESCRIPTION	BY	CHK	APP
110	03.05.19	POND OVERFLOW REVISED	RMV	PV	DJ
109	03.04.19	OVERFLOW 2 ADDED	RMV	PV	DJ
108	08.03.19	OUTFALL 2 REVISED	RMV	PV	DJ
107	22.11.18	SW FOR ADOPTION	RMV	PV	DJ
106	02.10.18	AMENDED TO SOLICITORS COMMENTS	RH	PV	DJ

CLIENT

**Lagan Homes**

PROJECT

**KINGSTONE PROPOSED RESIDENTIAL DEVELOPMENT**

TITLE

**SECTION 104 PROPOSED FOUL & DRAINAGE LAYOUT SHEET 2 OF 4**

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DRAWN	CHECKED	APPROVED
AA	PV	DJ

DATE 23.01.18 SCALE AT A0 1:250 REF PB859

DRAWING No. PB859-RHD-DE-11-DR-D-5101 REVISION 110

