

C2014B / DR / 0501

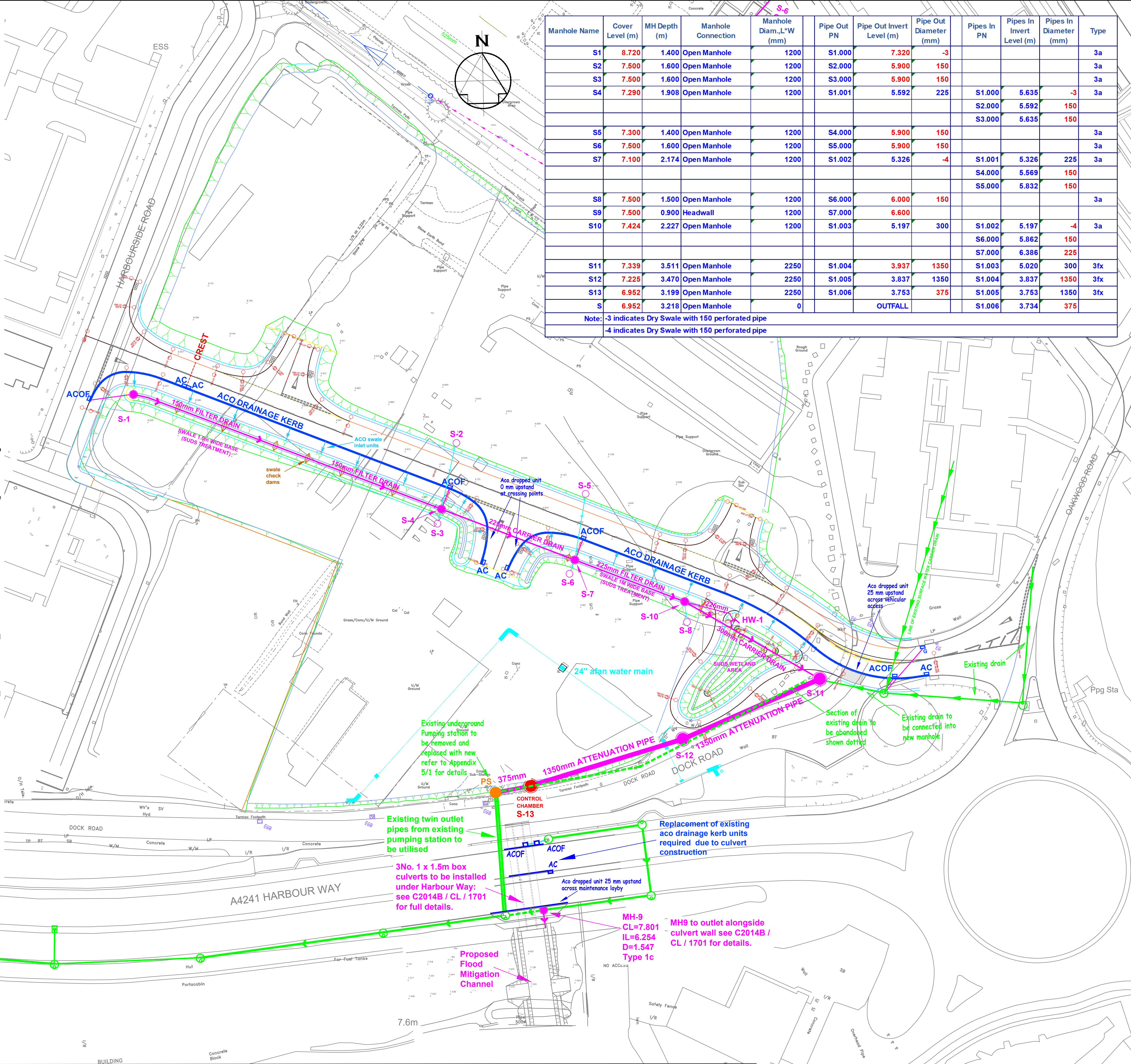
Drwg. No.

C2014B HARBOURSIDE STRATEGIC EMPLOYMENT SITE

Job Title

DESIGN NOTES

- For detail of trench and bedding details refer to Diag. No. HCD F1.
- For details of filter drain trench and bedding details refer to Diag No. HCD F2.
- For detail of manhole Type 1A refer to HCD F3 manhole Type 3a refer to HCD F5.
- For detail of different manhole Types refer to C2014B/DR/0505.
- All chamber foundations below existing ground level to have an extended base detail. and mesh as detailed on Diag No. C2014B/DR/0504.
- All storage / attenuation pipe chambers including control structure chambers and riser shafts to have the following:-
 - 6.1 bolted down access covers.
 - 6.2 vented access covers.
 - 6.3 concrete aprons 200 thick to access covers (refer to Detail X on Diag No. C2014B/DR/0504).
- All control structure chambers that contain penstocks are pollution control points. All pollution control points shall have the following:-
 - 7.1 penstock to suit size of outlet pipe, on seating.
 - 7.2 Access covers painted red for identification.
 - 7.3 Signage to indicate the chambers status.
 - 7.4 Steps where required. Steps and handrails shall be kwik-step modular permanent access solution or similar approved.
- All drainage items in aggressive ground shall be specified to the requirement for the aggressive ground condition to which the drainage item will be subjected within the permanent works. Refer to BRE special digest 1:2005 third edition "concrete in aggressive ground".
- Surface water drains are to have waterproof flexible joints in accordance with clause 504 of the specification.
- Reinstatement of surface water drains, trenches etc. located in existing highways shall be in accordance with clause 706 and appendix 7/2.
- See appendix 5/1 of the specification table 5/1 for permitted pipe work trench options.
- Chambers to have 200mm thick concrete surrounds type ST4 to chamber rings, where stated on the manhole type and in the schedule.
- All combined kerb drain unit out falls (ACOF) shall sit on top of trapped road gullies unless stated otherwise.
- Penstocks shall be cast iron rectangular metal faced suitable for wall mounting with on - seating head capacity of 6m. Surface access for extended non-rising spindle with cap direct on spindle in surface box for key turning. Fixtures and fittings shall be corrosion resistant for highway surface water conditions. Penstocks shall conform to BS7775:1995. Stockists either: Adams Hydraulics Ltd of York, Ham Baker Hartley of Stoke on Trent or similar approved.
- The outlet control chamber shall be designed in conjunction with the Hydro brake design for each Network case. Hydro brakes shall be designed by Hydro international to suit each outlet (Network) and mounted on the weir wall. The chamber, weir wall and benching shall be designed to the Hydro brake manufactures recommendations and shall be approved by the designer prior to any construction. Sump depth to be determined from Hydro brake manufactures recommendations.



NOTES

- All dimensions are in millimetres unless otherwise stated.
- All levels are quoted in metres above Ordnance Datum.
- Drainage notes are to be read in conjunction with all the drainage series drawings.
- For drainage details refer to Highway Construction Details:
 - F1 - Surface Water Drains - Trench and Bedding Details
 - F3 - Type 1 Chamber (Brick or In-situ concrete manhole)
 - F10 - Chamber fittings - ladder handhold and safety chain
 - F28 - Chamber fittings - guardrail
- For Drainage Long Sections and Control Chamber details see drawing no. C2014B / DR / 0504.
- For Drainage Construction details and Typical Sections see drawing no. C2014B / DR / 0505.
- For Drainage Standard details see drawing no. C2014B / DR / 0506.
- For Drainage Gully Types and Gully connections see drawing no. C2014B / DR / 0507.

KEY

- AC ACOF: PROPOSED KERB DRAIN UNIT.
- AC - ACCESS COVER (CLEANING)
- ACOF - OUTLET
- PROPOSED ACO SUDS SWALE INLET UNIT.
- PROPOSED SWALE CHECK DAM
- control chamber: PROPOSED PENSTOCK POLLUTION CONTROL POINT.
- PS: PROPOSED PACKAGED PUMPING STATION.
- MH: PROPOSED MANHOLE.
- 300x300: PROPOSED CARRIER DRAIN WITH ASSOCIATED LONG SECTION.
- EXISTING DRAINAGE (TO REMAIN)
- EXISTING DRAINAGE (TO BE REMOVED)
- EG: EXISTING GULLY TO RETAIN.
- EGB: EXISTING GULLY TO ABANDON.

Rev	Details	Dr	Ch	Ap	Date

Client



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DRAINAGE - MAIN DEVELOPMENT

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