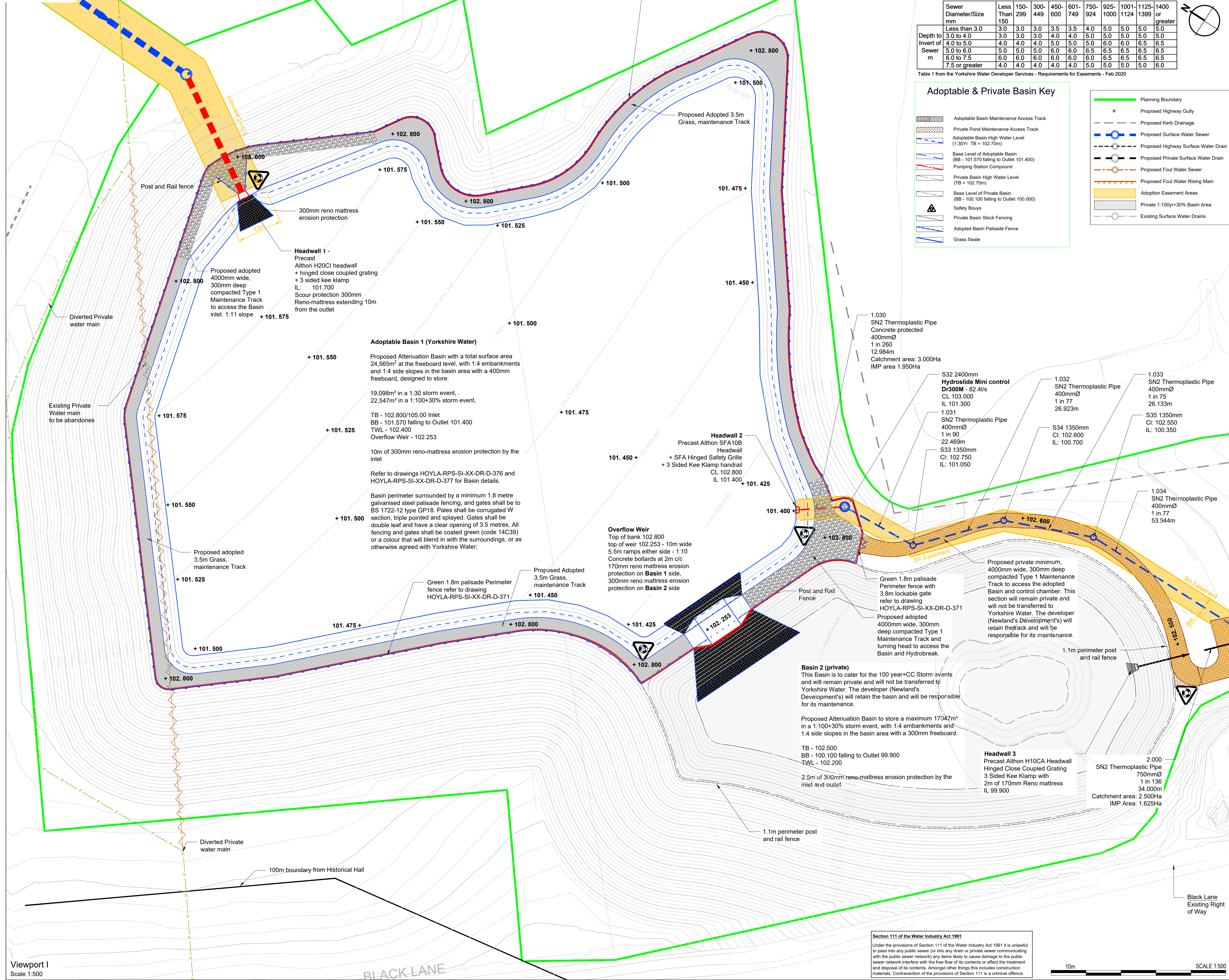




Sewer Diameter/Size mm	Less Than 150	150-299	300-449	450-600	601-749	750-924	925-1000	1001-1124	1125-1399	1400 or greater
Depth to Invert of Sewer m	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
3.0 to 4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
4.0 to 5.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
5.0 to 6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
6.0 to 7.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
7.5 or greater	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Table 1 from the Yorkshire Water Developer Services - Requirements for Easements - Feb 2020

Adoptable & Private Basin Key

- Adoptable Basin Maintenance Access Track
- Private Pond Maintenance Access Track
- Adoptable Basin High Water Level (1:30Yr TB = 102.70m)
- Base Level of Adoptable Basin (BB - 101.570 falling to Outlet 101.400)
- Pumping Station Compound
- Private Basin High Water Level (TB = 102.70m)
- Base Level of Private Basin (BB - 100.100 falling to Outlet 100.000)
- Safety Buoys
- Private Basin Stock Fencing
- Adopted Basin Palisade Fence
- Grass Swale

- Planning Boundary
- Proposed Highway Gully
- Proposed Kerb Drainage
- Proposed Surface Water Sewer
- Proposed Highway Surface Water Drain
- Proposed Private Surface Water Drain
- Proposed Foul Water Sewer
- Proposed Foul Water Rising Main
- Adoption Easement Areas
- Private 1:100yr+30% Basin Area
- Existing Surface Water Drains

- © 2020 RPS Group
- This drawing has been prepared in accordance with the scope of RPS's appointment with its client and is subject to the terms and conditions of that appointment. RPS accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided.
 - If received electronically it is the recipient's responsibility to print to correct scale. Only written dimensions should be used.
 - This drawing should be read in conjunction with all other relevant drawings and specifications.
 - All adoptable sewer works and material to be in accordance with "Code for Adoption". The Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
 - Manhole covers shall must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
 - Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
 - Yorkshire Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land drainage Section with regard to the disposal of the filter/land drainage run-off.
 - Cover slabs must carry the BSI Kitemark or will be rejected by Yorkshire Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued 2004 for Kitemarked cover slab opening sizes.
 - Sulphate resistant cement (C20-DC2) and precast concrete products must be used, or a laboratory report provided proving that such precautions are not necessary.
 - The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
 - Sewers must have 5 metres clearance from trees and hedges.
 - Sewers to be laid in class 'S' bedding (150mm Granular bed and surround). Where depth of cover to top of sewer is less than 1.2m in highways and verges (or less than 900mm in non vehicular access areas) then a concrete slab should be provide above granular bed and surround.
 - Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
 - The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bands.
 - Yorkshire Water policy is that Type 'C' brick manholes and 1050mm dia manhole rings are not preferred. Instead it is preferred that you use a type 'B' manhole with 1200mm dia or 1500mm dia rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m.
 - Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS EN13476). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would prefer clayware channel in manholes. We have found that plastic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the bedding.
 - The minimum crushing strength for clay pipes should be as follows : 100mm dia. 40kN/m, 150mm dia. 40kN/m, 225mm dia. 45kN/m and 300mm dia. 72kN/m. The minimum crushing strength for concrete pipes should be - (Class 120 to EN 1916/BS5911-1-2002). Plastic pipes should conform to WIS 4-35-01 and BS EN13476.
 - Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
 - Yorkshire Water's Signs will be required once the detention basin is transferred to Yorkshire Water (Yorkshire Water will provide the signs and charge the developer for the signs).

Key Plan
Not to Scale

P15	Basin 2 fencing changed to Post and rail	SMC	AE	26.10.21
Rev	Description	By	Ckd	Date

newlands developments

Sherwood House, Sherwood Avenue,
Newark, Nottinghamshire, NG24 1QQ
T:01636 605 700 E: rpsnewark@rpsgroup.com

Client

Project **Hoyland Common**

Title **Proposed Drainage GA
S104 Approval
(Sheet 5 of 6)**

RPS Project Number NK020040	Scale @ A1 1:500	Date Created 18.08.2020
Task Team Manager SG	Information Author JNB	Task Information Manager SMC

Status
S4 (Suitable for Stage Approval)

Document Number HOYLA-RPS-SI-XX-DR-D-335	Revision P15
--	------------------------

Project Code - Originator - Zone - Level - Type - Role - Drawing Number
rpsgroup.com