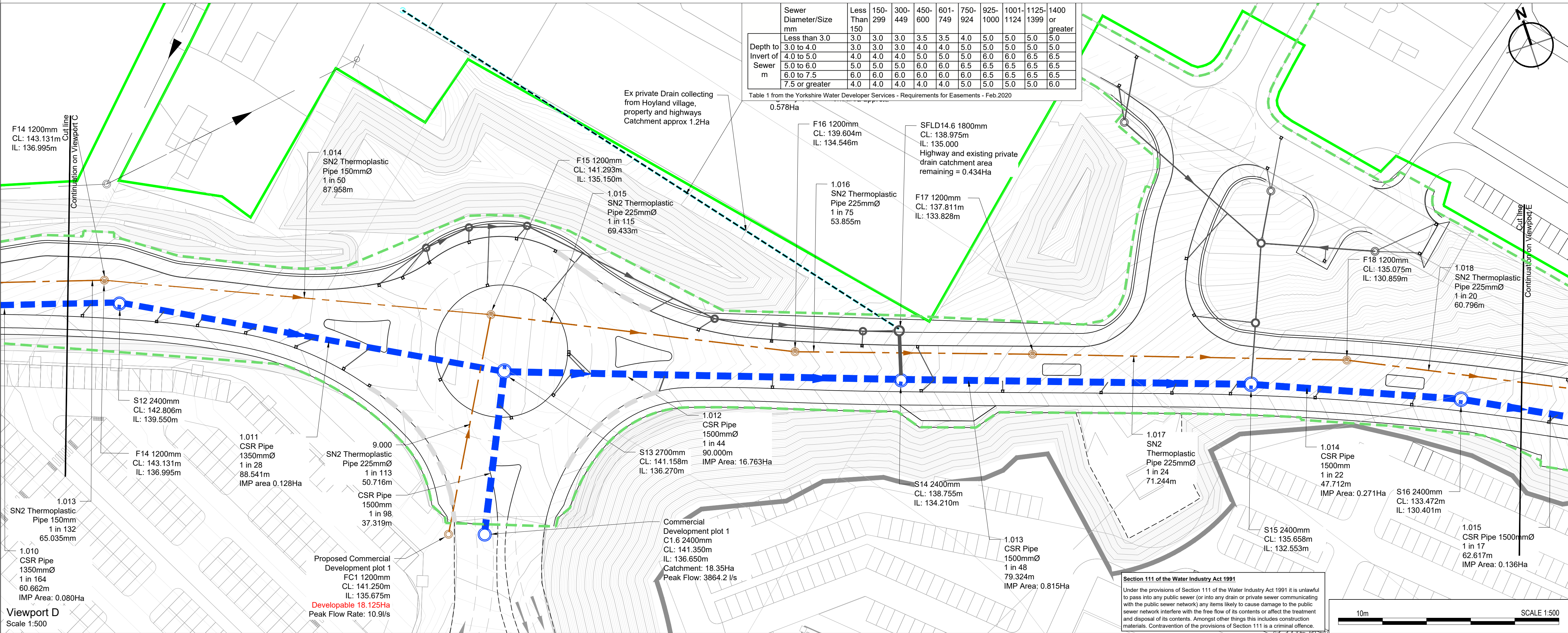
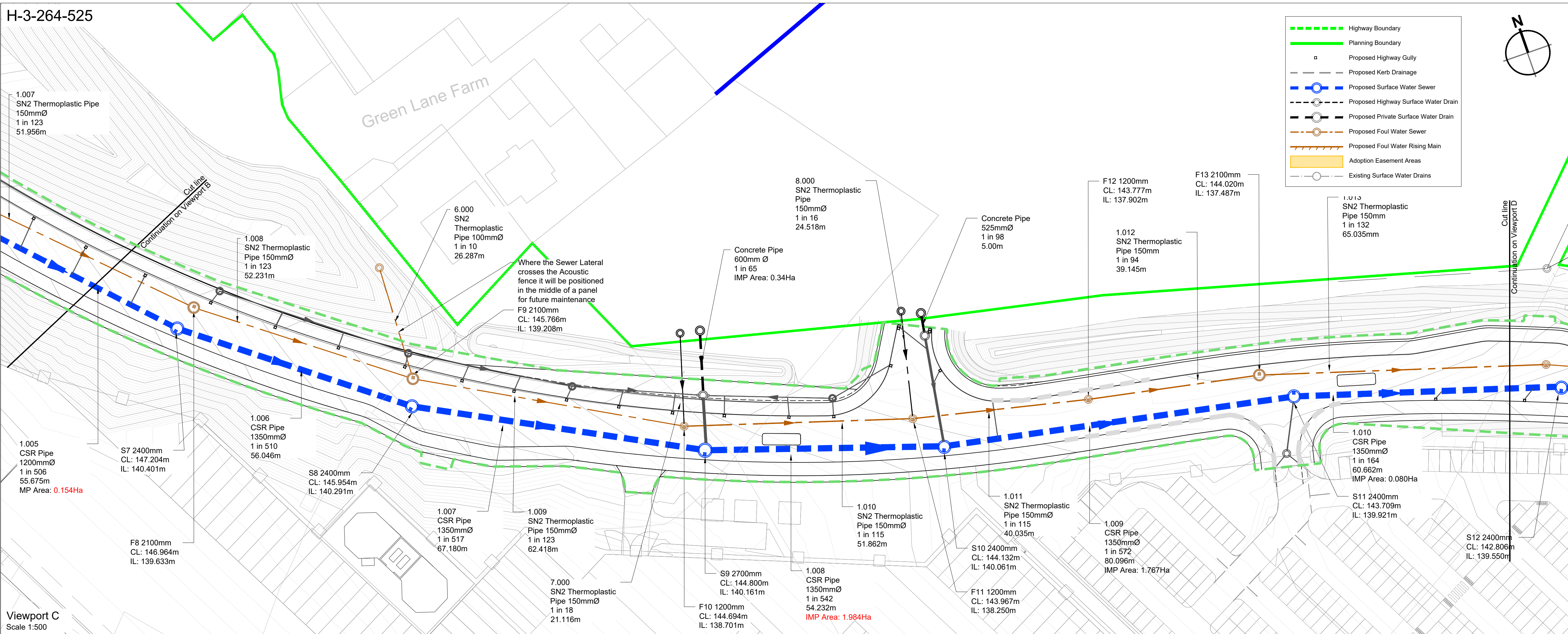
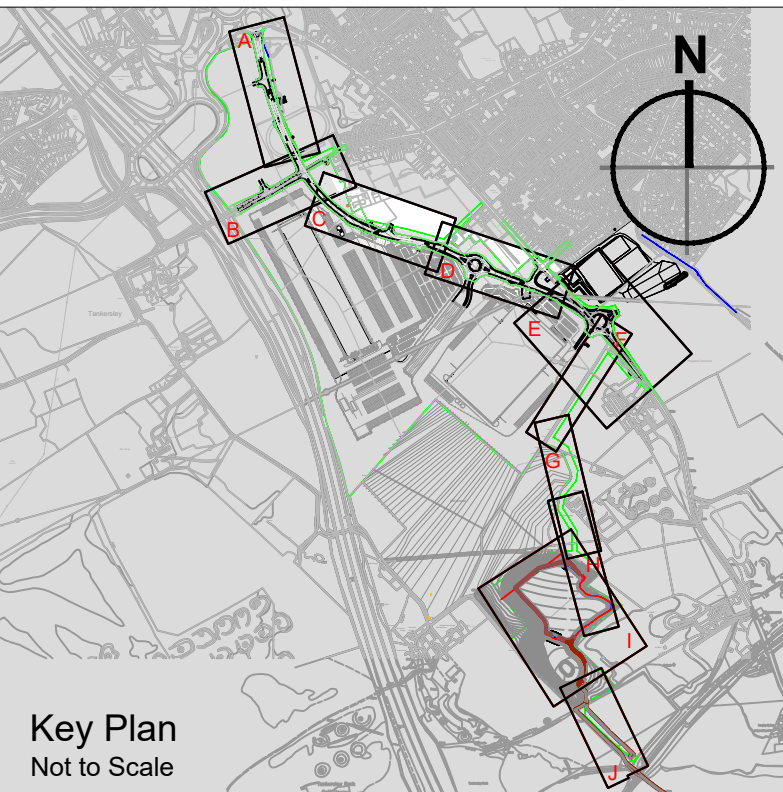


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- If received electronically it is the recipients responsibility to print to correct scale. Only written dimensions should be used.
- This drawing should be read in conjunction with all other relevant drawings and specifications.
- A. All adoptable sewer works and material to be in accordance with "Code for Adoption". The relevant Code for Adoption is the Highways and Yorkshire Water's Standard Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.**
- B. Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 and EN 124 with 150mm deep frames in highways.**
- C. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water's Engineer. Any material to be used must be carried out.**
- D. Yorkshire water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable plastic system (directly or indirectly). An alternative method of disposal of the filter drain/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 drain/land drainage run-off.**
- E. Cover slabs shall carry the BS1 Kitemarked and be rejected by Yorkshire Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and manhole, the cover shall be rejected. The cover shall be a minimum of 150mm deep and 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 and manhole details.**
- F. Sulphate resistant cement (C2SA-D2C2) and precast concrete products must be used, or a laboratory report providing proof that such precautions are not necessary.**
- G. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces.**
- H. Sewers must be laid in class 4 from trees and hedges.**
- I. Sewers to be 5m deep "S" bedding (150mm Granular bed and surround). Where depth of bedding is not specified, the minimum depth is 1m in highways and verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provide above granular bed and surround.**
- J. Bedding and backfill must be in accordance with BS 5911 Part 1 of Industry Specification 4-08-02 (Table A2).**
- K. The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.**
- L. Yorkshire Water policy is that "Type C" brick manholes and 1500mm dia manhole rings are not to be used. The minimum depth of bedding for 1500mm dia manhole rings, with the opening siting over the channel where depth of cover to pipe is 150mm or more, shall be 150mm.**
- M. Adoptable plastic sewer pipes to be BS1 Kitemarked (certified to WIS 4-35-01 and BS/EN13476). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless not proven to be suitable for longer lengths. The minimum depth of bedding for 1500mm dia manholes where manholes are not acceptable and Yorkshire Water will prefer clayware channel in manholes. We have found that plastic channels are difficult to set in concrete because the bedding is not compacted. The bedding must be in accordance with BS 5911 Part 1 of Industry Specification 4-08-02 (Table A2).**
- N. The minimum crushing strength for clay pipes should be as follows: 100mm dia. 40kN/m² 150mm dia. 40kN/m² 225mm dia. 45kN/m² and 300mm dia. 124kN/m². The minimum crushing strength for plastic pipes shall be in accordance with BS EN 13476 (1985/BS EN 12002). Plastic pipes should conform to WIS 4-35-01 and BS EN 13476.**
- O. Where a B125 cover frame has been approved, this must not be covered in plastic and plastic covers must not be used. Scales should be accommodated standard fitting keys. Screw down covers are not acceptable.**



P17	HA Drainage amended MH locations	SMC	ANT	14.07.2017
Rev	Description	By	Ckd	Date



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developments

Project Hoyland Common

Title Proposed Drainage GA
S104 Approval
(Sheet 2 of 6)

RPS Project Number	Scale @ A1	Date Created
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Task Team Manager	Information Author	Task Information Manager
SG	JNB	SMC

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