

CONTRACT DOCUMENT

Notes

GENERAL NOTES

- 1) For details of gradients and routes of house drainage connections refer to house drainage layout drawings.
- 2) This drawing is to be read in conjunction with the standard Details, Schedules and the specification for this project.
- 3) All manholes and gullies are to be positioned at the changes given on the long-sections.
- 4) All connections for house drainage shall be 100mm unless stated otherwise and must extend a minimum of 500mm behind the back of the footpath. All connections when laid shall be plugged, protected as necessary and marked with a stake for future use.
- 5) Connections into existing sewers to be "SOFFIT TO SOFFIT" unless noted, otherwise on the longitudinal sections.
- 6) The contractor is to check the level of existing sewers to be used as out-fall immediately they are exposed PRIOR to laying of pipes. Any discrepancies are to be reported to the Engineer.

SFA 6 Notes

1. Inter AX covers & frames, as manufactured by Stanton Plc are to be used on all adoptable manholes. Covers to be embossed with either FW or SW to suit (only if to be adopted).
2. Cover and Reducing slabs, shaft and chamber rings to be bedded with mortar, proprietary bitumen or resin mastic sealant. All lifting holes to be pointed.
3. Chamber Diameters

Above sizes are minimum and may need increasing for more than one incoming pipe to accommodate adequate bedding.

5. Concrete mix to be in accordance with the chemical analysis report for bedded concrete for the site concerned.
6. High strength topping to S.S. 8204 to be brought up to a dense smooth face neatly shaped and finished to all branch perpendiculars. Benching slope to be not flatter than 1 in 30.
7. Rocker/Short pipe lengths

Manholes to large diameter sewers. Chambers with outgoing pipes greater than 300mm dia. to be fitted with guard bars, safety chains or other safety devices. Toe holes to be provided in bedding of sewers greater than 600mm dia. for access to invert.

8. Bricks to be solid type and either class B engineering to BS 3921 or special purpose concrete bricks to BS 6073 with Sulphate-resisting Portland cement binder. Brickwork to be in English bond.
9. Brick Manhole Widths. Chamber widths to be increased for pipes larger than 225mm dia. to give 225mm bedding each side with the brickwork cobbled down to suit cover.
10. All pipes built into manhole invert should be installed with soffits level.
11. PIPE BEDDING AND BACKFILL MATERIALS Granular bedding and subfill Type A material shall be imported or selected on-site material complying with the recommendations of WIs. No. 4-20-02. Selected fill Type B shall consist of uniform, readily compactable material, free from vegetable matter, building rubbish and frozen material, or materials susceptible to spontaneous combustion, and excluding clay of liquid limit greater than 80 and/or plastic limit greater than 15 and materials of excessively high moisture content. Clay lumps and stones retained on 75mm and 37.5mm sieves respectively shall be excluded from the fill material. Pipe bedding and fill materials to concrete pipes shall not contain more than 0.3% sulphate, expressed as sulphur trioxide. A concrete slab is required when there is less than 500mm cover.

TRENCH WIDTHS

Pipe dia. (mm)	BC (mm)	BD (mm)
150	180	600
225	260	700
300	340	800
375	420	900
450	500	1000
525	580	1100
600	660	1200
675	740	1300
750	820	1400
825	900	1500
900	980	1600
975	1060	1700
1050	1140	1800
1125	1220	1900
1200	1300	2000

12. All Adoptable Drainage Works shall comply with the requirements of Sewers for Adoption 6th Edition and the relevant Water Authority's Addendum, Unless noted otherwise.
13. All Adoptable Drainage pipes to be of spigot & socket type connection.
14. All dimensions in millimetres unless specified otherwise.
15. All pipes to be either Vitrified Clay pipes to EN206 (BS595) and are to be Extra Strength. Concrete pipes to BS5911.

Rev Description Date

Status:

PRELIMINARY

Scale: 1:250 @A0L

Date: Nov 2019

Drawn: IDL

Title: Drainage Layout Sheet 2 of 2

Project: Southwater, Phase 5

Org. No: IDL/760/P5/03/01

Rev: File Ref: 760-P5-03

Plot Ref: 760-P5-03-02

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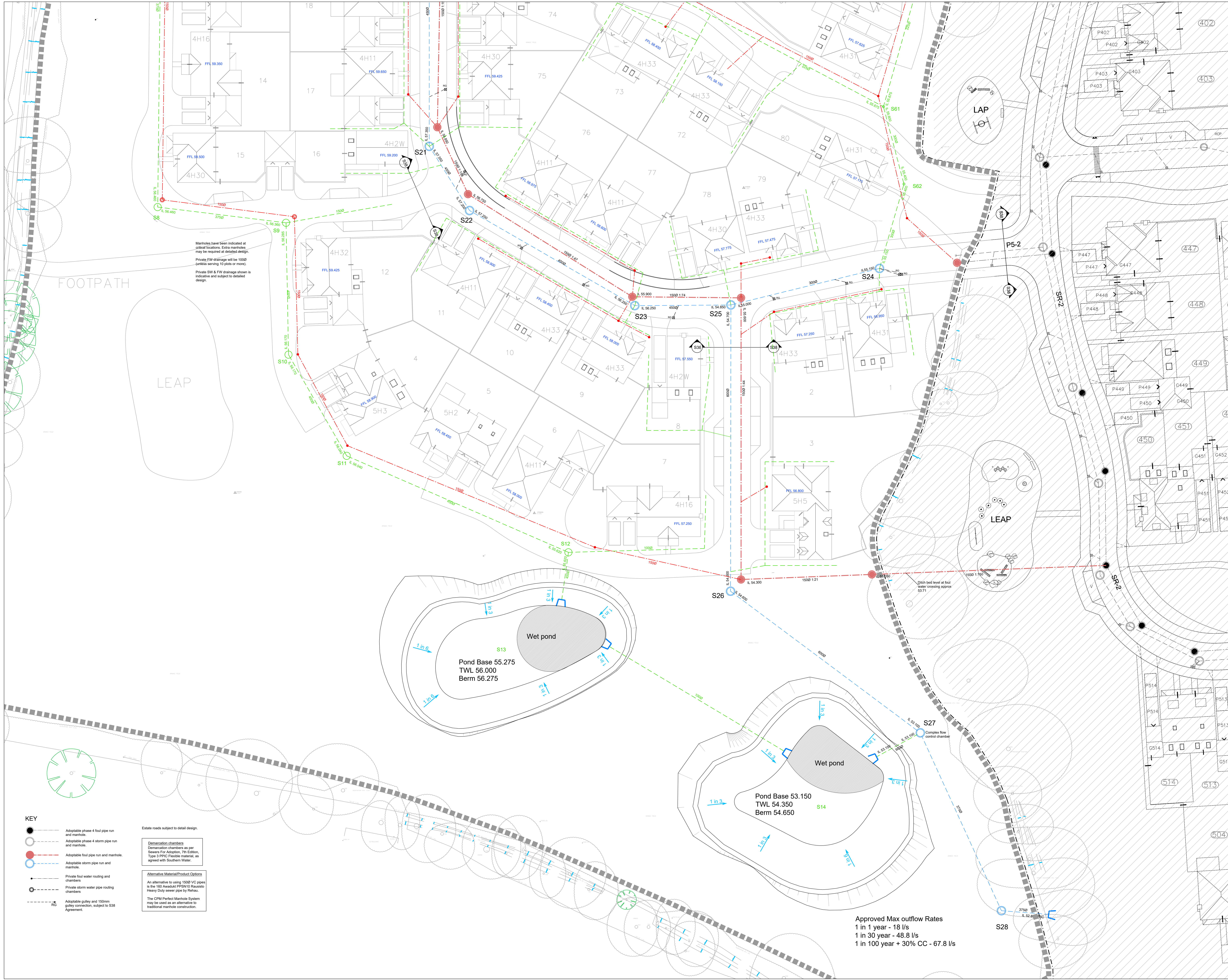
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Approved Max outflow Rates
1 in 1 year - 18 l/s
1 in 30 year - 48.8 l/s
1 in 100 year + 30% CC - 67.8 l/s