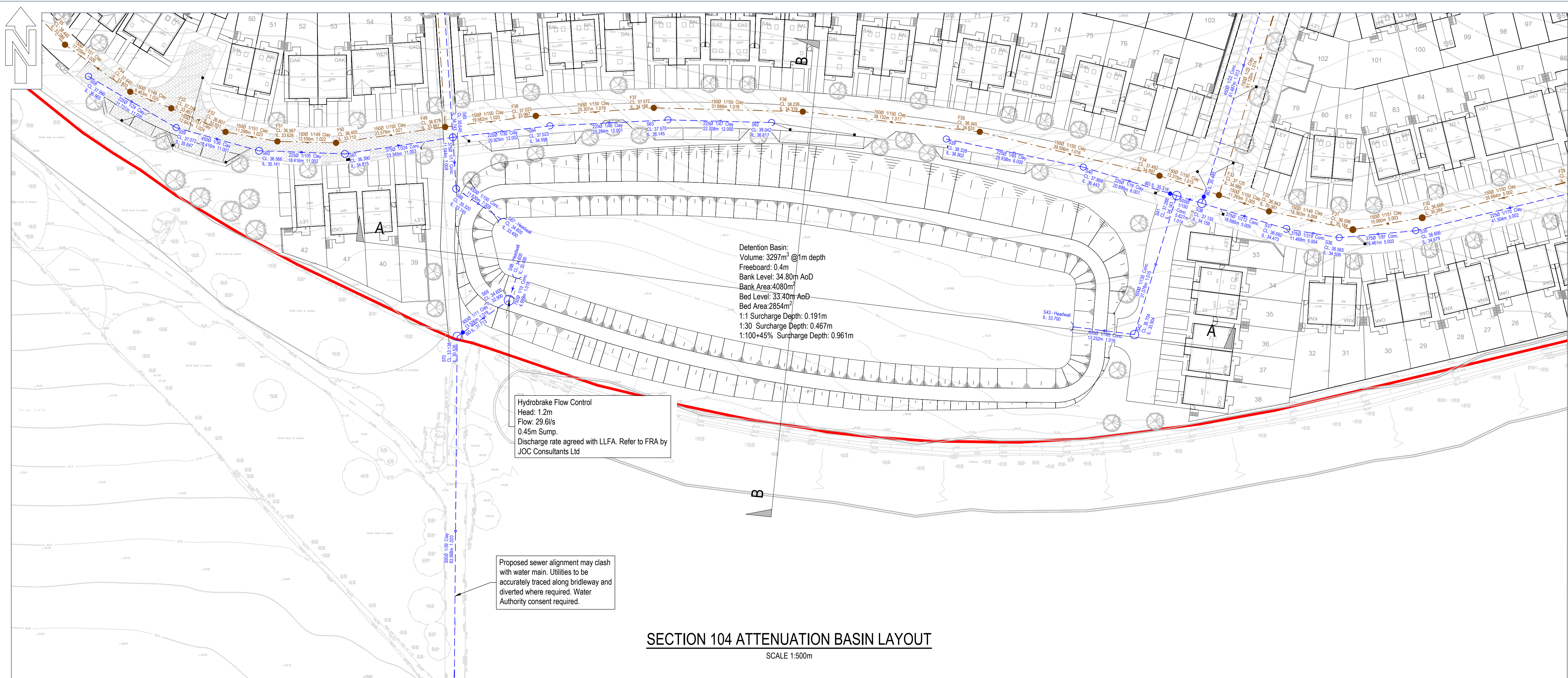
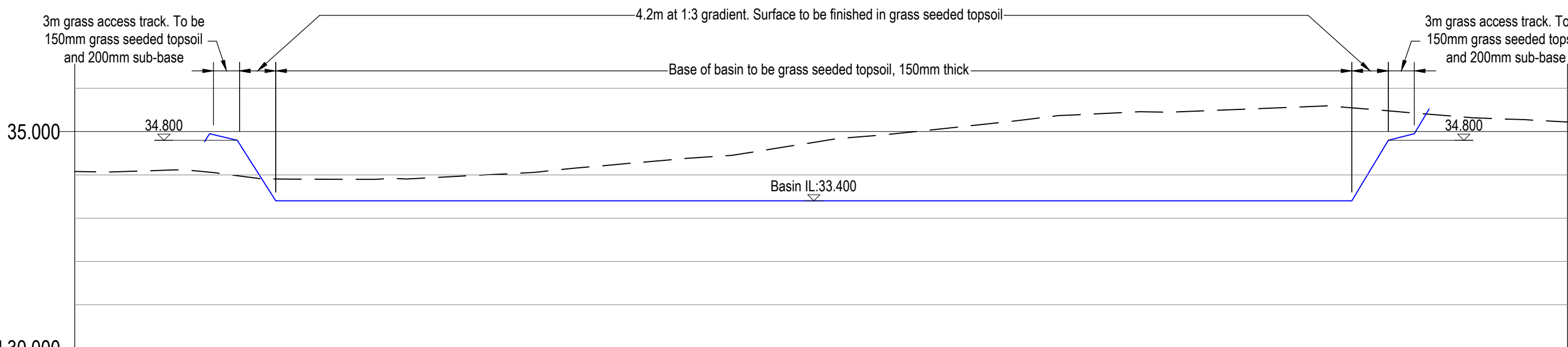




SECTION 104 ATTENUATION BASIN LAYOUT

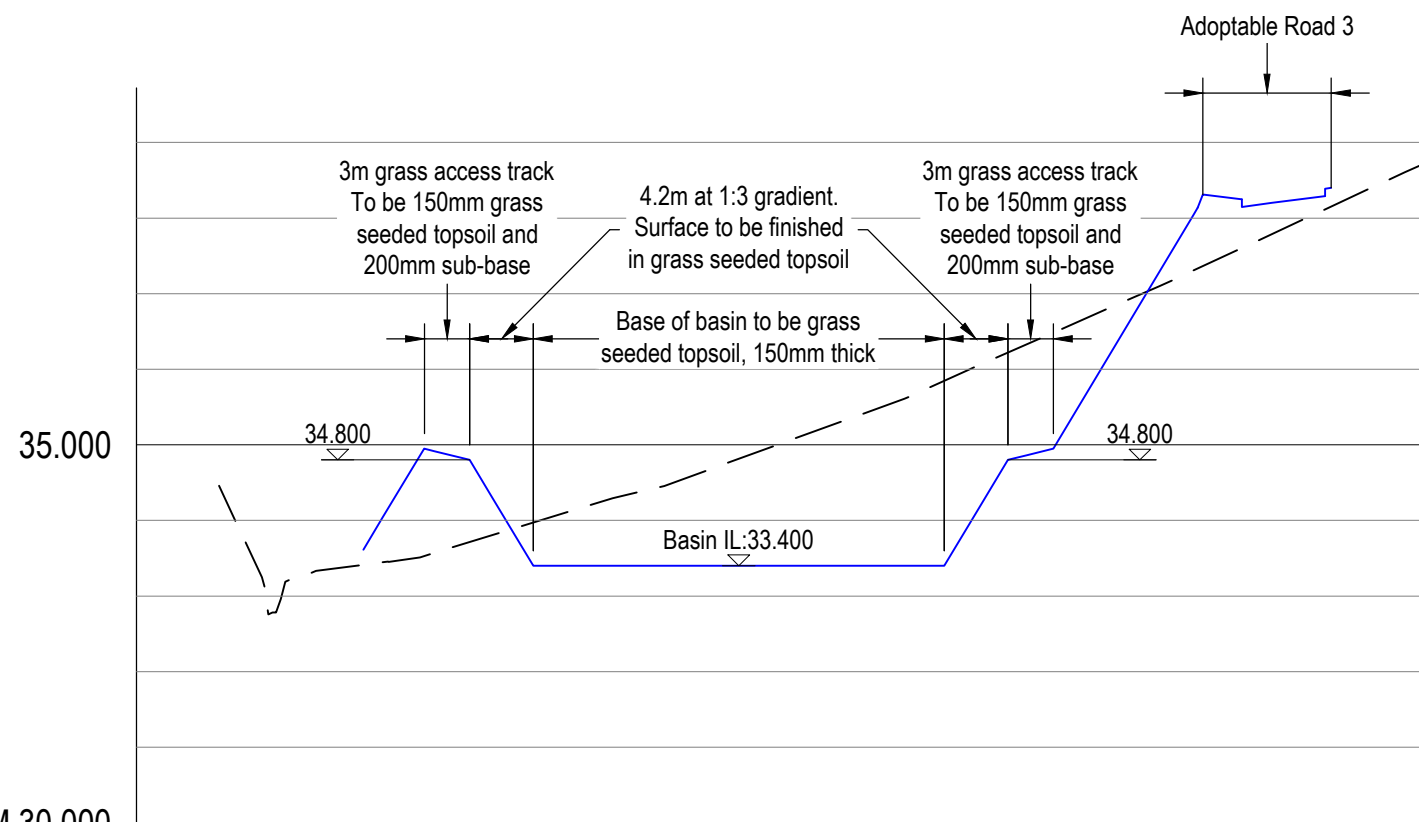
SCALE 1:500m



Section A-A

DATUM 30.000

CHAINAGE	0.000	10.000	15.000	15.009	18.187	23.246	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	147.659	150.000	151.863	154.866	156.583	160.000	170.000	177.580
EXISTING TOPO LEVEL	34.079	34.105			33.950	33.899	33.899	33.924	34.024	34.194	34.369	34.579	34.868	35.060	35.279	35.428	35.475	35.556	35.509	35.509	34.980	34.950	35.522	35.346	35.249	35.232
BASIN LEVEL			34.762	34.762	34.419	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400	33.400



Section B-B

DATUM 30.000

CHAINAGE	0.000	5.456	10.000	15.009	19.026	20.000	20.032	24.250	30.000	40.000	50.000	53.433	57.634	60.000	60.635	70.000	70.196	80.000	85.202
EXISTING TOPO LEVEL		34.457	33.201			33.588			34.201	34.826	35.553	36.428	36.428			37.314		38.244	38.722
BASIN LEVEL				33.614	34.950	34.901	34.800	34.800	33.400	33.400	33.400	33.400	34.800	34.918	34.950	38.071	38.136		

S104 ATTENUATION BASIN CROSS SECTIONS

SCALE 1:500m

NOTES:

- All adoptable sewer works and material to be in accordance with "Code for Adoption". The Relevant British/European and Icosa Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
- Manhole covers shall/must have a clear opening of 675mm 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 Icosa Water before any sewer works are carried out.
- Icosa Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or in-directly). 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 drain/land drainage run-off.
- Cover slabs must carry the BSI Kitemark or will be rejected by Icosa 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 675mm x 675mm for the Icosa Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 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.
- Adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers must have 5m 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 the sewer is less than 1.2m 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.
- 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 bends.
- Icosa 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 Icosa 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 benching.
- 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.
- There should be enough clearance to accommodate the bedding for both pipes, approx 300mm : If crossover is near the rocker then the clearance needed may be increased.

P01	First issue.	JR	GH	15.08.2025
REV	DESCRIPTION	SIG	CHK	DATE

AVANT HOMES

BRIDGE LANE, THURNSCORE

ATTENUATION BASIN LAYOUT
AND CROSS SECTIONS



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ECE PROJECT No	SCALE AT A1	STATUS	SUITABLE FOR
48926	1:500m	S0	Initial
DRAWING NUMBER			
48926 - ECE - XX - XX - DR - C - 0045	P01		
Project	Originator	Zone	Level
	Type	Role	Number