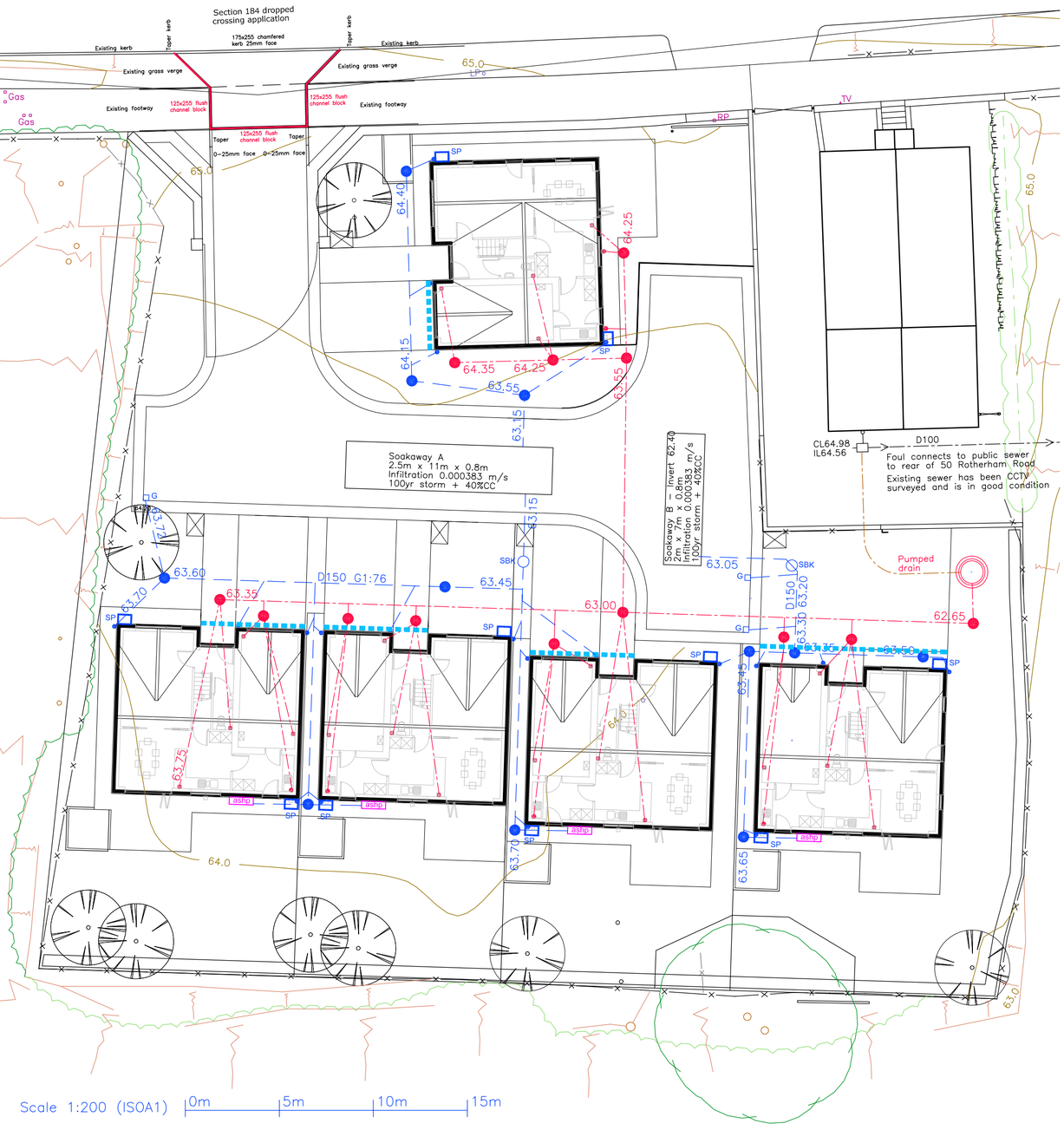
A633 Rotherham Road

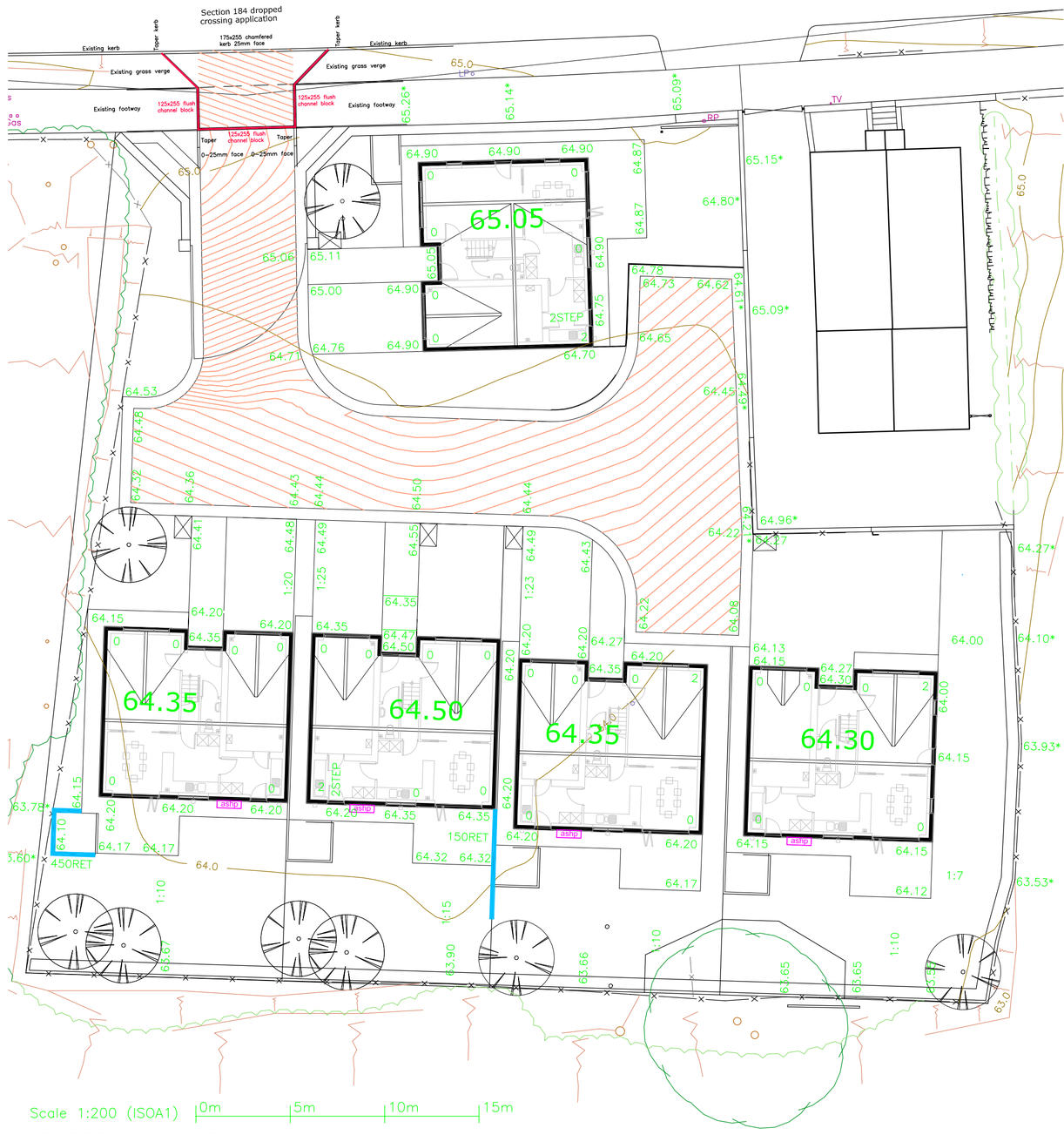


Scale 1:200 (ISOA1) 0m 5m 10m 15m

DRAINAGE LAYOUT

- Existing drain
- Proposed surface water drain
- Proposed foul water drain
- Proposed foul rising main
- Proposed road gully
- Proposed Aco channel or similar
- SP — Proposed SUDS Planter providing attenuation and Biodiversity
- SBK — Turtleenviro Siltblok SB500B
- Carriageway contour 25mm intervals
- ashp — Preliminary location for air source heat pump. To be confirmed by client

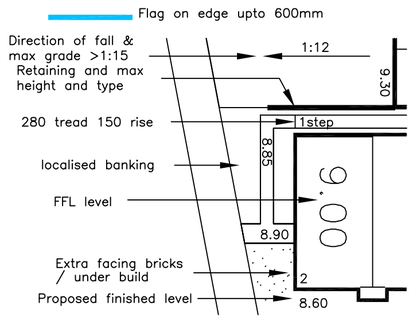
A633 Rotherham Road

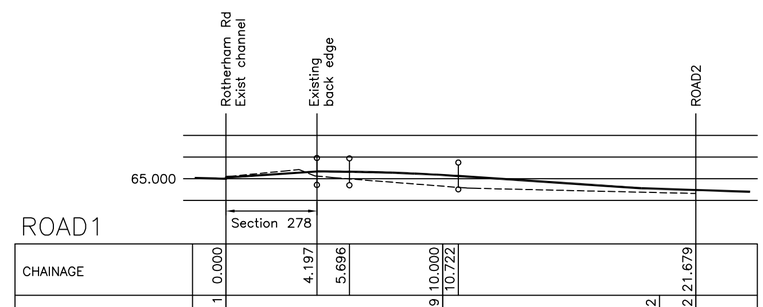


Scale 1:200 (ISOA1) 0m 5m 10m 15m

EXTERNAL WORKS

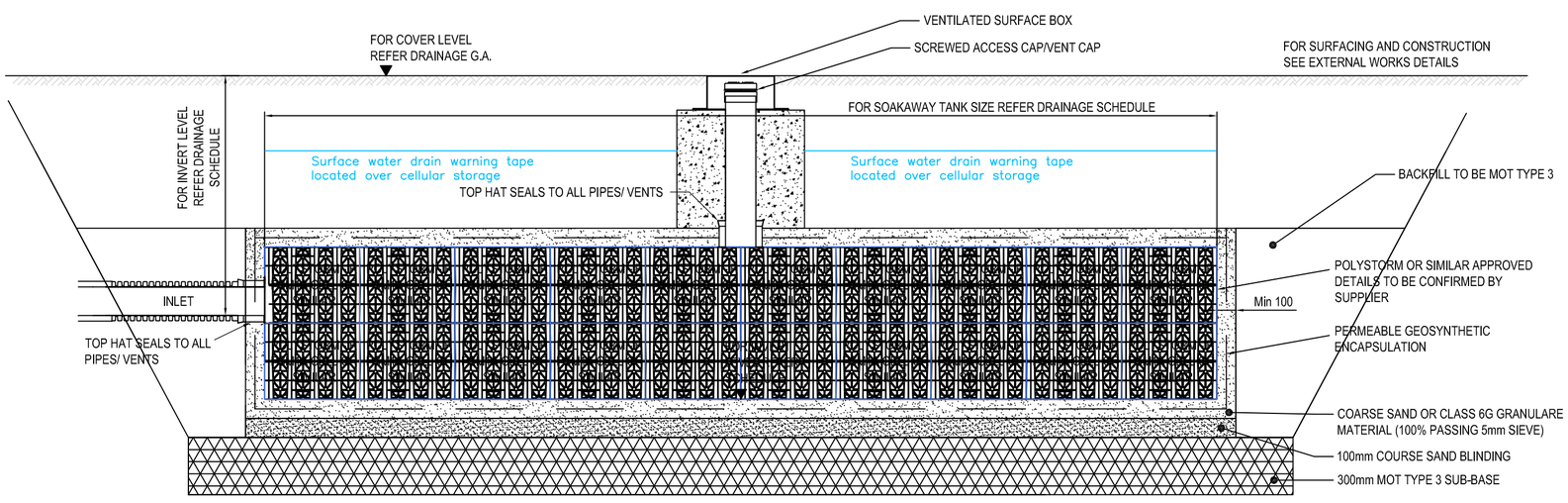
Flag on edge upto 600mm





ROAD1

CHAINAGE	0.000		4.197	5.696		10.000	10.722				21.679	
EXISTING GROUND LEVEL	65.111					64.659				64.362	64.322	
ALIGNMENT LEVEL	65.033	65.057	65.338	65.323		65.175	65.130		64.564			
VERTICAL ALIGNMENT		G= 6.666%	1: 15.0	G= 1.0%	L= 5.026 KF= −0.88246	1: −100.0	G= −6.666%	1: −15.0				



INDICATIVE SECTION THROUGH SOAKAWAY

INSTALLATION TO MANUFACTURERS RECOMMENDATIONS
POLYSTORM TANK OR SIMILAR APPROVED

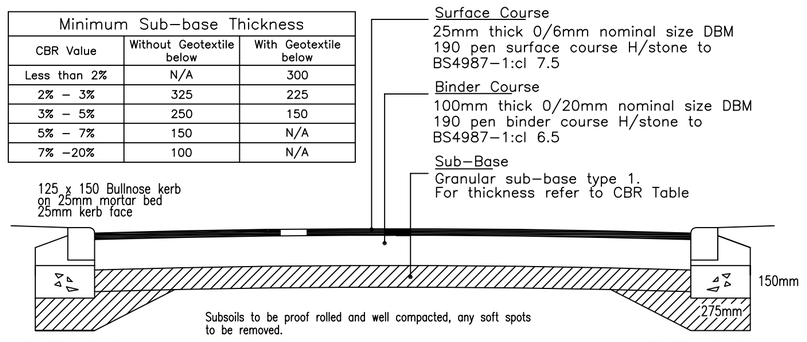
SOAKAWAY CRATES, PIPES & MANHOLES SHOULD BE SUITABLE FOR ACCESS ROADS LOADING, TEMPORARY SITE TRAFFIC TO BE CONSIDER BY MAIN CONTRACTOR
FULL SILTATION CONTROL TO BE IMPLEMENTED BY MAIN CONTRACTOR TO PROTECT THE SOAKAWAY DURING CONSTRUCTION.

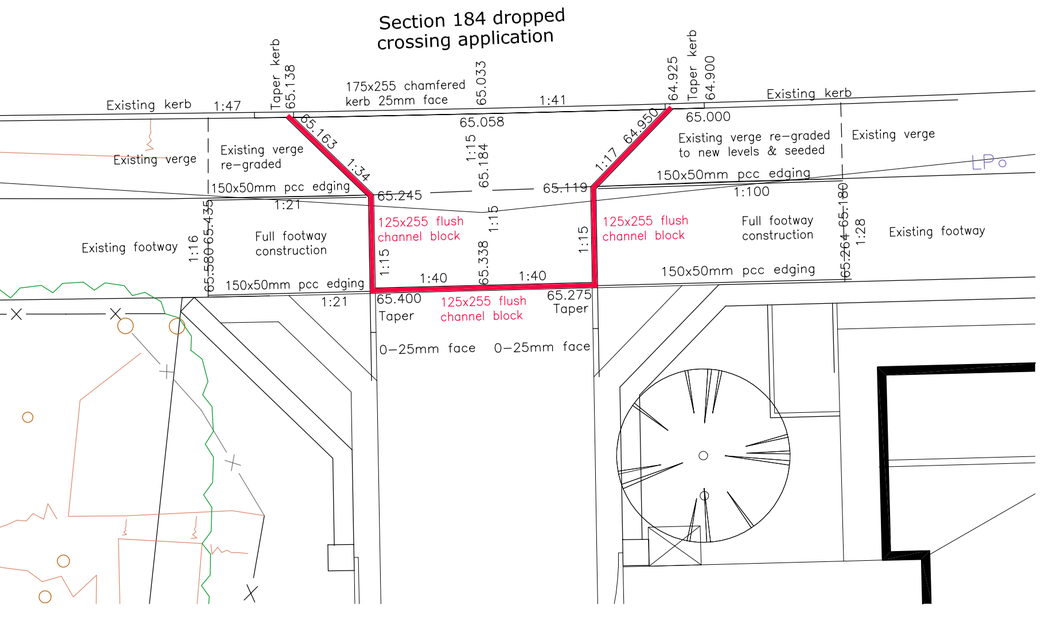
SOAKAWAY	SIZE	30yr DEPTH	100yr DEPTH	INVERT
A	11x2.5x0.8m	508mm	720mm	62.650
B	7x2x0.8m	550mm	770mm	62.400

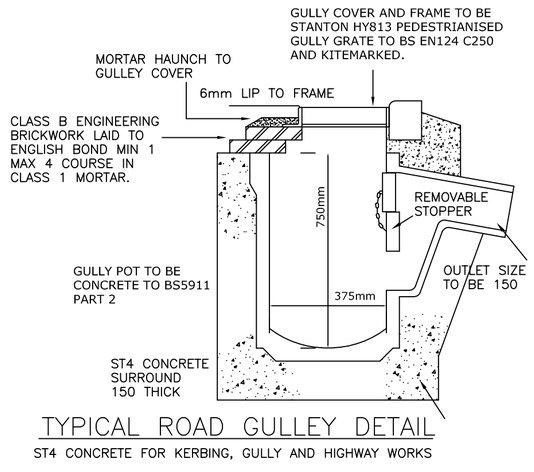
Infiltration rate 0.000383m/s
Storage design 100year + 45% CC

SHARED DRIVE CONSTRUCTION DETAIL

Minimum Sub-base Thickness		
CBR Value	Without Geotextile below	With Geotextile below
Less than 2%	N/A	300
2% – 3%	325	225
3% – 5%	250	150
5% – 7%	150	N/A
7% –20%	100	N/A

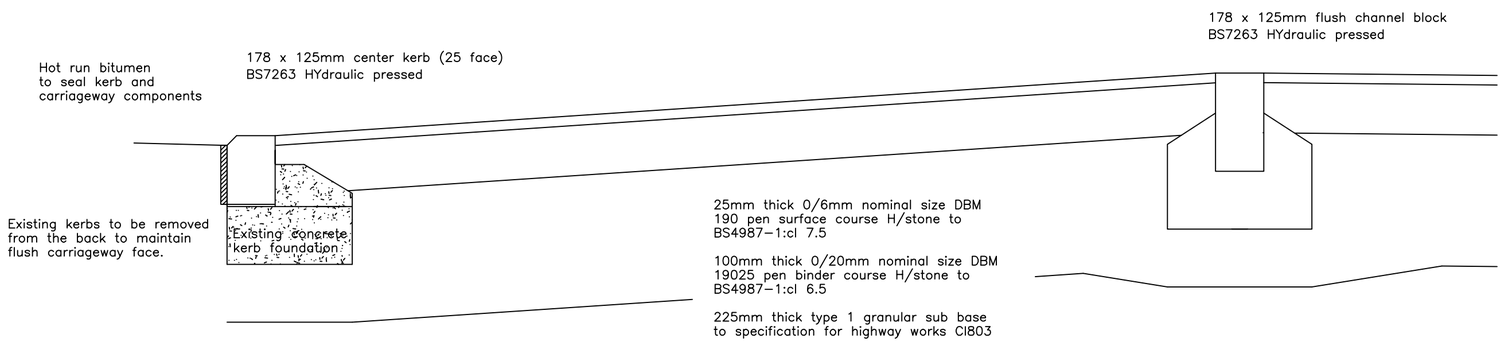






TYPICAL ROAD GULLEY DETAIL

ST4 CONCRETE FOR KERBING, GULLY AND HIGHWAY WORKS



DROPPED FOOTWAY CROSSING

FOUL WATER PUMP STATION

Cover level	64.20
Incoming Invert	62.60
No properties	5
Rising main length	11m
Delivery invert	64.60
Max pump rate	4.75 l/s

Package pump station to be equipped with twin pumps, Telemetary and emergency generator socket. Wet well to have 24 hours emergency storage

ALL LEVELS ARE RELATED TO OSGM02 TRANSFORMATION (GPS) COORDINATE GRID IS BASED ON OSGB36 COORDINATE SYSTEM (GPS)

NORTH

PRIVATE DRAINAGE

All drainage to comply with BS8301
100mm drains to be laid at minimum gradient 1 : 80. 150mm drains to be laid at minimum gradient 1 : 150.
All drainage to be 100mm diameter, unless otherwise stated. All final connections to main sewer to be 150mm diameter. All connections joints to remain flexible.
Drains passing under buildings to be retained flexible with a bed and surround of pea gravel. All drains to be bridged over with concrete lintels when passing through walls.

All foundations to be taken below invert level of localized drains where within 1.00m of foundations.
All sink wastes not connected to an inspection chamber or manhole to be connected via a roddable gully.
225mm dia inspection chambers to be laid at a maximum depth of 600mm below finished ground level.
450mm dia inspection chambers to be laid at a maximum depth of 1200mm below finished ground level.
1200 x 1000mm pc concrete sections to BS 5911 to be laid at a maximum depth of 3.00m below finished ground level.

A. Pump rate added, soakaway detail revised 9-11-26

R.A.B. ENGINEERING DESIGN LTD
12 BERRY HOLME CLOSE
SHEFFIELD S35 1AB
TEL.(0114)2464871

N3Xt Generation Developments

52 Rotherham Road,
Monk Bretton S71 5QX
Engineering design

DRAWN BY rab
SCALE ISOA1 DATE Oct26
DRAWING No 1206-1 REV A

PRELIMINARY ONLY