



Haigh Huddleston & Associates

Civil & Structural Engineering Consultants

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Our Ref: E18/7309/MD/04A

Date: 30 October 2025

FAO Mr P Justice

pjustice@saulhomes.co.uk

Dear Sir,

Re: Proposed development on Land South of Doncaster Road, Darfield, Barnsley
Planning Application: 2024/0580
EA Ref: RA/2024/147502/04-L01

Further to the correspondence from Ms Claire Dennison of the Environment Agency, via Barnsley MBC and dated 17 October 2025, we would respond to the comments as follows:

The FRA reference E20/7309/FR01A dated September 2025 considers the effects of up to and including the 1 in 100 year storm events with a 40% and its effects on the proposed development and properties downstream of the development. In addition to this, the run-off for the development has been reduced to the QBar rate of 36.1 l/s, as agreed with Barnsley MBC LLFA, which is less than half the calculated 1 in 100 year greenfield run-off rate for the developed site area of 75 l/s. The IH 124 calculations showing this area attached to the rear of this letter.

The proposed basin is to provide storage for up to the 1 in 100 year + 40% climate change storm events, with the discharge rate from the development restricted as stated above, this will restrict the flow to the downstream catchment area as a whole and reduce the risk of flooding downstream of the proposed development.

The site has been developed so that there is no flooding within the proposed adoptable sewer system for up to and including the 1 in 100 year + 40% climate change storm events, there is therefore considered to be minimal risk to the proposed site residents. The proposed accesses from Darfield Road in the north is shown to be free from flooding and will provide a safe evacuation route should it be required. Flood routing has been provided through the site, directing the general flow towards the watercourses in the south. The existing ground in the north has a fall towards the watercourse in the east, however the re-development of the land will intercept this flow reducing the run-off to the east, thereby reducing the risk of flooding to the watercourse on the eastern boundary and residential development to the east.

On the recently updated EA flood maps, Flood Zone 3 is shown to encroach on the south eastern corner of the site, associated with the open watercourse running alongside the eastern boundary of the site. The section through the site on the eastern boundary at this point shows the watercourse is approximately 1.5m deep at this point, with the existing ground levels of the proposed development approximately 2.5m above the base of the watercourse. The proposed highway is approximately 2m above the base of the watercourse at this point. The ground levels fall to the south west at an average grade of 1 in 19, so it is considered unlikely that the flooding from the watercourse would spread westwards as shown on the EA Flood Maps. An extract showing the cross section of this is attached to the rear of this letter.

The existing watercourse flowing from the west is to be redirected to the south of the proposed attenuation basin and reconnect at a point approximately 160m south and 1m lower than the existing confluence with the watercourse on the eastern boundary. The catchment area served by these watercourses is primarily to the west of the proposed development, and served by the watercourse flowing from the west, with the eastern watercourse primarily serving the proposed development area. The relocation of the watercourse, in conjunction with the development bringing flow away from the eastern watercourse, will reduce the flooding shown to the eastern watercourse and reduce the risk of flooding both to the existing properties to the east of the development as well as the on-site properties. A plan showing the catchment areas in relation to the site is attached to the rear of this letter.

It is therefore considered that the proposed development of the site with the reduction of surface flow to the eastern watercourse and to the drainage systems downstream of the development will reduce the flood risk to the existing residential development to the east of the site and to the proposed development of the site. The re-routing of the existing watercourse to a point approximately 160m south of the existing confluence will reduce the risk of flooding to the existing development to the east of the site and effectively relocated the proposed area of flooding to the fields and woodland to the south west of the development and away from the residential areas, both existing and proposed.

I trust the above and attached are sufficient to answer the queries from the Environment Agency. Should you require any further information, or wish to discuss further, please do not hesitate to contact me direct.

Yours faithfully,



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Firth Buildings
 99-101 Leeds Road
 Dewsbury WF12 7BU



Date 10/08/2018 11:25
 File

Designed by j.mcbride
 Checked by

Micro Drainage Source Control 2017.1

IH 124 Mean Annual Flood

Input

Return Period (years)	2	Soil	0.300
Area (ha)	18.020	Urban	0.000
SAAR (mm)	689	Region Number	Region 3

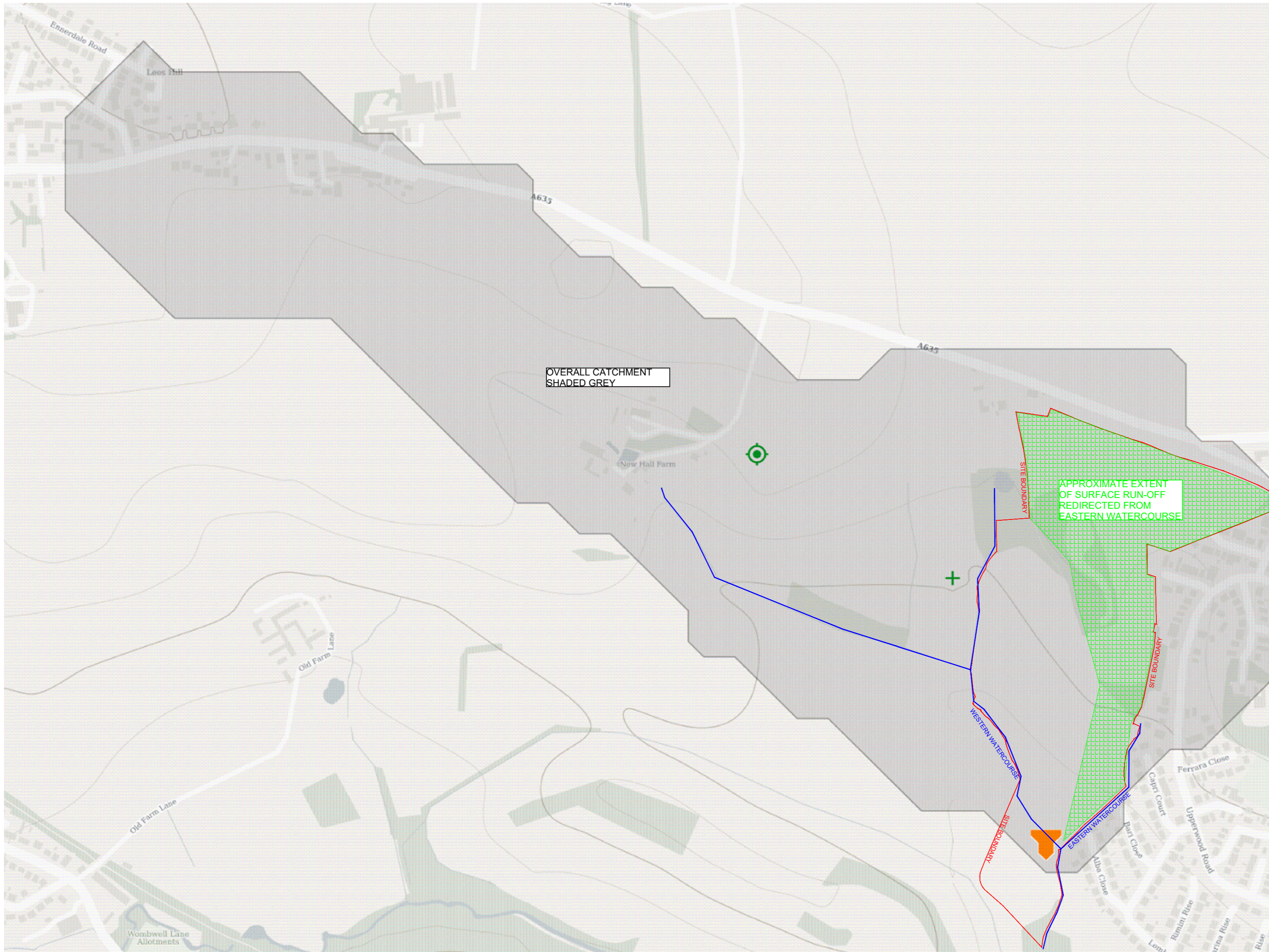
Results l/s

QBAR Rural 36.1
 QBAR Urban 36.1

Q2 years 34.0

Q1 year 31.0
 Q2 years 34.0
 Q5 years 45.1
 Q10 years 52.3
 Q20 years 59.2
 Q25 years 61.5
 Q30 years 63.4
 Q50 years 68.3
 Q100 years 75.0
 Q200 years 85.1
 Q250 years 88.4
 Q1000 years 109.6

Warning: It is unusual to use the IH124 method with an area < 50ha. The Interim Code of Practice recommends that the IH124 method is applied with 50ha and the resulting discharge is linearly interpolated for the required area. The ICP SUDS tab will do this automatically.



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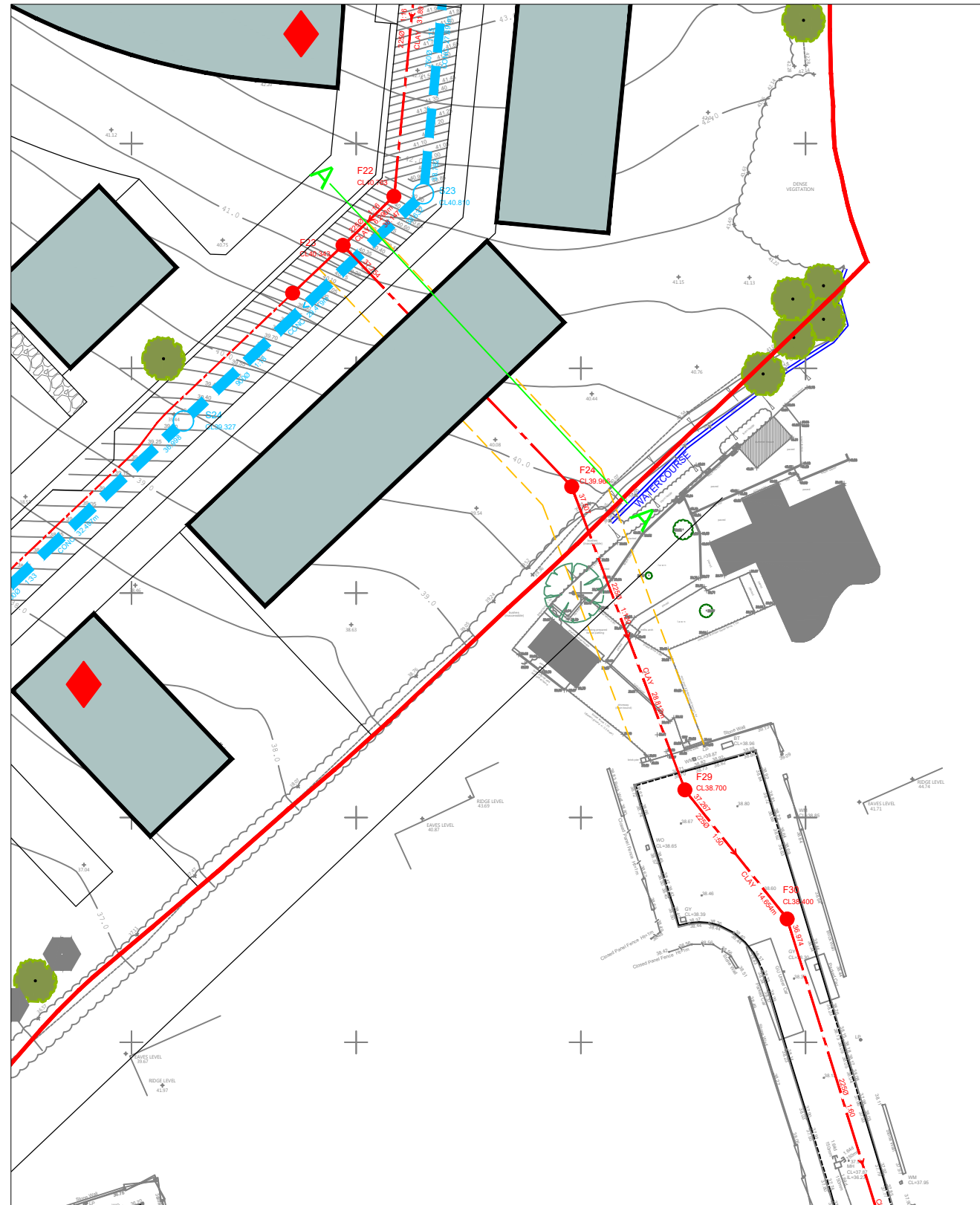
t 01924 574074

Client
SAUL CONSTRUCTION

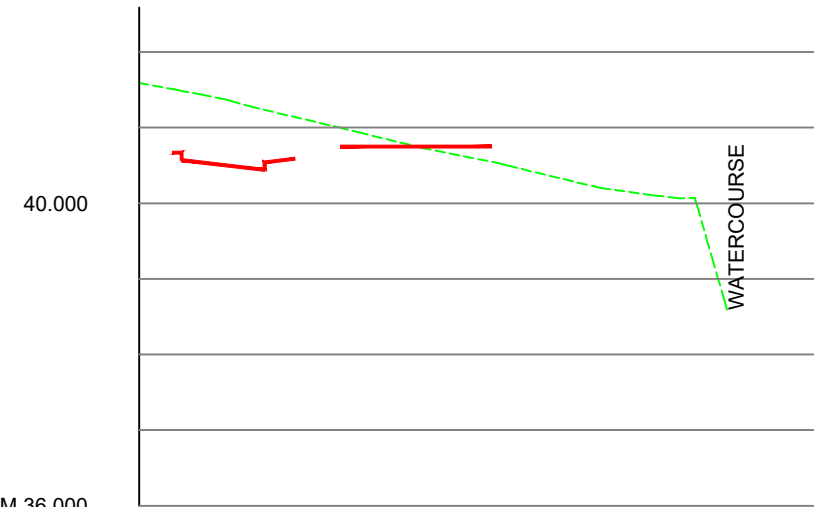
Project
DARFIELD

Detail
CATCHMENT AREA PLAN

Scale	Dwn	Chkd	Date	Dwg No.
1:5000	A2	MD	Oct'25	E18/7309



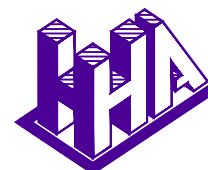
SCALE 1:500



DATUM 36.000

CHAINAGE	0.000	10.000	20.000	30.000	38.880	40.000	45.347
EXISTING TOPO SURVEY	41.590	41.155	40.681	40.228	38.594		

SECTION A-A
SCALE 1:500 Hor 1:100 Ver



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Client
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Project
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Detail
SECTION THROUGH EASTERN WATERCOURSE

Scale	Dwn	Chkd	Date	Dwg No.
	MD		Oct'25	E18/7309