ALL DIMENSIONS TO BE CHECKED BY CONTRACTOR



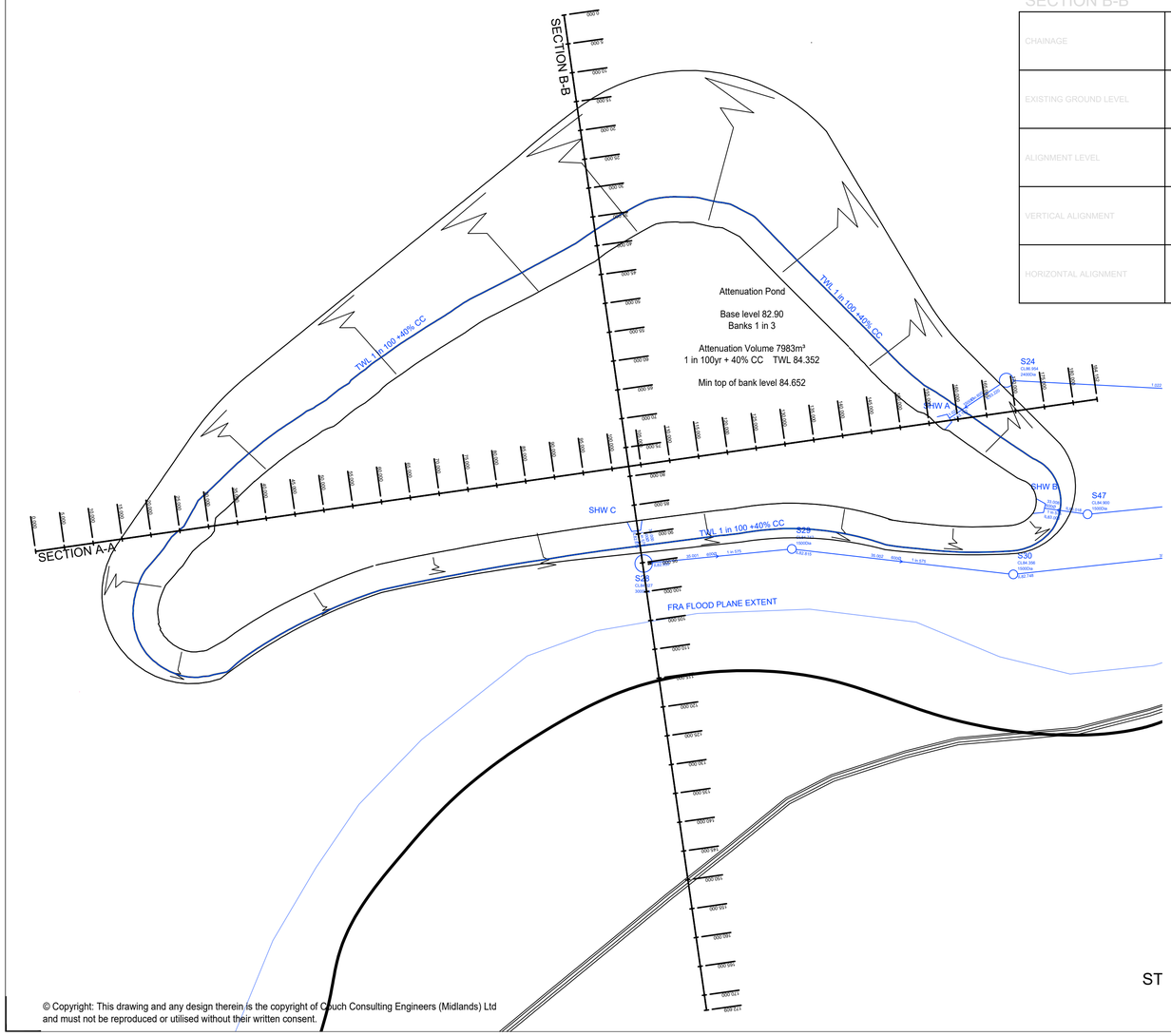
SECTION A-A

CHAINAGE	0.000	14.840	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	156.089	160.000	170.000	184.152
EXISTING GROUND LEVEL	87.534	86.828	86.492	86.024	85.850	85.691	85.572	85.532	85.510	85.596	85.723	85.850	86.055	86.213	86.371	86.245	86.359	86.487	86.482	86.474
ALIGNMENT LEVEL			86.577	85.359	82.998	82.902	82.902	82.902	82.902	82.901	82.901	82.901	82.901	82.901	82.900	82.900	82.900	83.779	86.095	86.496
VERTICAL ALIGNMENT			G= -33.3% 1:3.0					G= 0.000%										G= 33.3% 1: 3.0		
HORIZONTAL ALIGNMENT																				



SECTION B-B

CHAINAGE	0.000	16.240	20.000	30.000	40.000	42.043	50.000	60.000	70.000	80.000	87.619	90.000	172.609
EXISTING GROUND LEVEL	92.196	91.438	90.639	89.830	89.052	88.163	87.372	86.472	85.613	84.974	84.334	83.806	83.350	83.228	83.134	82.869	83.202	83.312	83.345
ALIGNMENT LEVEL			90.947	89.779	86.672	83.566	82.901	82.900	82.900	82.900	82.900	83.860	84.753							
VERTICAL ALIGNMENT			G= -33.3% 1: 3.0					G= 0.000%				G= 33.3 1: 3.0								
HORIZONTAL ALIGNMENT																				



ST

SURFACE WATER DESIGN SUMMARY

Overall Site Developed Area - 23 Ha

Development Impermeable Area - 10.1 Ha

The surface water drainage strategy has been prepared in accordance with the principles set out in Inspire Flood Risk Assessment GHL-1355-01-FRA - 002 April 2019

The discharge rate has been restricted to Qbar greenfield runoff rate.

As the impermable area of development has reduced since FRA was approved so discharge rate has been reduced on a pro rata basis to accord with reduction in impermable area to 53.0 l/s for all storm events upto and including critical 100yr + 40% CC storm event. Attenuation basin is sized according to provide storage volume required due to discharge rate restriction.

No urban creep allowance has been applied to Industrial Estate areas.

Surface Water system has been design in accordance with principles set out in the FRA including water quality treatment using a combination of SuDS techniques in accordance with Simple index method.

Surface Water discharges to be outfall via headwall at 53 l/s into Denby/Bottle Brook

REV	AMENDMENT	BY	DATE
P0	First Issue	MWA	02.03.2022

PROJECT EXECUTION CLASS: N/A

All materials supplied in relations to those specified on this drawing are to be CE marked in accordance with the European Union Declaration of conformity

PURPOSE OF ISSUE

PRELIMINARY

COUCH
Consulting Engineers
Civil & Structural

The Old Forge, Priory, London Road, Canwell, Sutton Coldfield. B75 5SH
Tel: 0121 308 7557
info@cceng.co.uk

14-16 St. Nicholas, Church Street, Warwick. CV34 4JD
Tel: 01926 409 036

Genesis Centre, 18 Innovation Way, Stoke-on-Trent. ST6 4BF
Tel: 01782 366 160
www.cceng.co.uk

CLIENT

GARNER HOLDINGS LTD

PROJECT

PHASE 2
DENBY HALL BUSINESS PARK

DRAWING TITLE

ATTENUATION POND
INDICATIVE SECTIONS

SHEET SIZE	SCALE	DATE	DRAWN	CHECKED	STATUS
A1	1:500	MAR 2022	MWA	CCE	-

CCE PROJECT No.	DRAWING No.	REV
C8093	8093-C-114	P0

© Copyright: This drawing and any design therein is the copyright of Couch Consulting Engineers (Midlands) Ltd and must not be reproduced or utilised without their written consent.