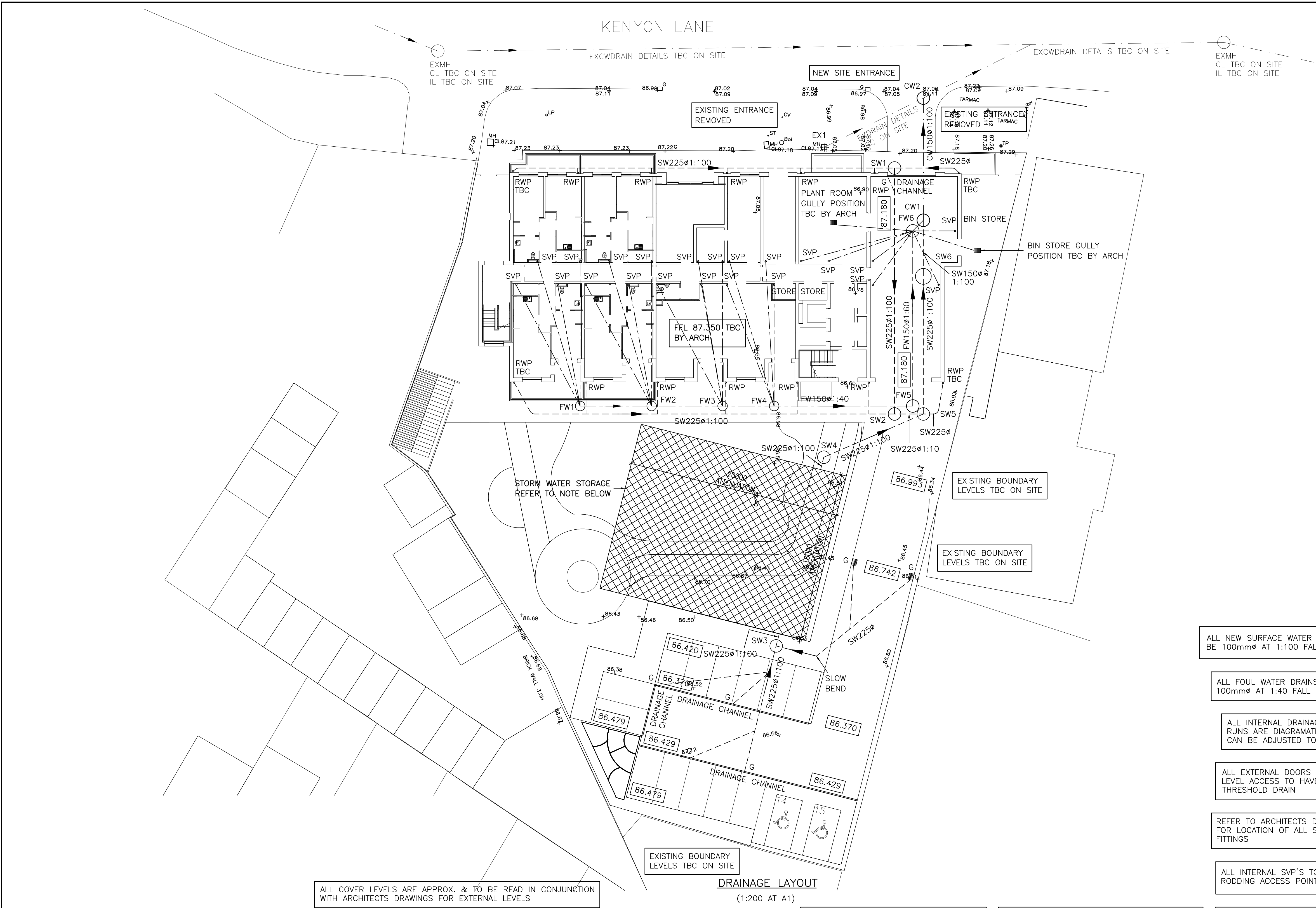




DRAINAGE NOTES:

- 1 All work to be in accordance with Sewers for Adoption latest Edition and BS 8000 Pt 14 Code of Practice for below ground drainage.
- 2 The sizes of manholes stated are minimum. If two or more pipes enter the manhole the chamber size must be sufficient to accommodate adequate benching. All pipes built into the manhole invert should be installed with soffits level.
- 3 The Contractor shall give at least one working days notice to the Engineer to allow opportunity to examine any formation or witness any testing.
- 4 All soft spots to be removed from bottom of excavations and to be refilled to formation level with the same material as permanent works which rest in it.
- 5 All concrete and concrete products shall be constructed with sulphate resistance cement.
- 6 Unless noted otherwise all manhole chamber covers to be ductile iron to BS EN 124 D400
- 7 Unless noted otherwise all mortar to be class 1 1:3 cement : sand.
- 8 Cut ends of reinforced concrete pipes are to be treated with epoxy resin paint/mortar.
- 9 Construction joints in concrete surround must not be within 150mm of chamber ring joints.
- 10 All drainage products to be kitemark approved tested.
- 11 Gully gratings shall be end hinged & ductile iron, BS EN 124 Class C250.
- 12 All abandoned drains and sewers to be grubbed up and backfilled with consolidated well graded clean stone hardcore.
- 13 All external doors with a level access to level access to have a threshold drain.
- 14 All internal drainage runs are diagrammatic & can be adjusted to suit.
- 15 Refer to Architects drawings for location of all sanitary fittings, SVP's & RWP's.
- 16 Connections into public sewers to be in accordance with requirements of local authority.
- 17 All gullies at RWP locations are to have rodding access.
- 18 Rodding access to be provided at all w.c locations.
- 19 All internal SVP's to have rodding access point.
- 20 All surface water drains to be 100mmØ at 1:100 fall u.n.o.
- 21 All foul water drains to be 100mmØ at 1:40 fall u.n.o.
- 22 All cover levels are approx. & to be read in conjunction with Architects drawings for external levels & TBC ON SITE.

ARRANGEMENT SUBJECT TO FINAL LEVELS

A	01.10.23	ATTENUATION SIZE REVISED.	D.J.W
rev	date	revisions	initials

client

THE CHALLENGER GROUP

project

KENYON LANE
MOSTON

drawing

DRAINAGE LAYOUT

PWA Philip Wright Associates
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Email: info@philipwrightassociates.co.uk

drawn	S.P.M.	date	04.07.25
scale	1:200	checked	
contract no.	3500	drawing no.	D1 A

*- INDICATES MANHOLE DIAMETER T.B.C TO SUIT FLOW CONTROL

SURFACE WATER MANHOLES					
CHAMBER	COVER LEVEL	INVERT LEVEL	DEPTH	MANHOLE TYPE	COMMENTS
SW1	87.200	85.750	1.450	1200mmØ PCC	
SW2	87.122	85.517	1.605	1200mmØ PCC	
SW3	86.545	85.460	1.085	1200mmØ PCC	SILT TRAP MIN. 0.3m DEEP SUMP BELOW LOWEST IL
SW4	86.993	85.261	1.732	1200mmØ PCC	
SW5	87.122	85.158	1.964	1200mmØ PCC	
SW6	87.180	85.023	2.157	*1500mmØ PCC	FLOW CONTROL MH DISCHARGE RATE 2L/S DESIGN HEAD: 1.5m SPEC: SHE-0061-2000-1500-2000

FOUL WATER MANHOLES					
CHAMBER	COVER LEVEL	INVERT LEVEL	DEPTH	MANHOLE TYPE	
FW1	87.200	86.051	1.149	900mmØ PCC	
FW2	87.200	85.882	1.318	900mmØ PCC	
FW3	87.200	85.715	1.485	900mmØ PCC	
FW4	87.200	85.594	1.606	900mmØ PCC	
FW5	87.122	85.267	1.855	1200mmØ PCC	
FW6	87.180	84.990	2.219	1200mmØ PCC	

- KEY**
- RWP RAIN WATER PIPE
 - ▷ RE RODDING EYE
 - G GULLY
 - SVP SOIL VENTILATION PIPE
 - SURFACE WATER DRAIN
 - FOUL WATER DRAIN
 - - - COMBINED WATER DRAIN

87.180 INDICATES PROPOSED LEVEL TBC ON SITE

87.180 INDICATES EXISTING LEVEL TBC ON SITE

EXTERNAL ACO S100 DRAINAGE CHANNELS OR SIMILAR APPROVED WITH IN BUILT FALLS AND TRAPPED RODDABLE GULLIES & F900 HEELGUARD GRATE AS NOTED ALL INSTALLED IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDED DETAILS & SPEC

WAVIN AQUACELL CORE R CRATES
ATTENUATION:
20X16X0.4m DEEP, 96% VOID
CAPACITY = 122m³
1:100 YEAR STORM
+ 40% CLIMATE CHANGE
CRATE INLET 85.448
CRATE TOP 85.673
CRATE BASE/OUTLET 85.273
MIN REQUIRED COVER ???m
MIN GROUND LEVEL 86.473
COVER TO CRATES 0.800m
CRATES TO BE VENTED

COMBINED WATER MANHOLES					
CHAMBER	COVER LEVEL	INVERT LEVEL	DEPTH	MANHOLE TYPE	
CW1	87.180	84.967	2.213	1200mmØ PCC	
CW2	87.06	84.840	2.220	1200mmØ PCC	

EXISTING MANHOLES					
CHAMBER	COVER LEVEL	INVERT LEVEL	DEPTH	MANHOLE TYPE	
EX1	87.13	84.950	2.180	BRICKWORK	