

Technical Note 002		
Project Name and number:	Land South of Summer Lane, Pagham	D2240
Subject:	DOC Update for Drainage Design	
Client:	Foreman Homes	
Prepared by and Date:	M. Akmenkalns	14.10.2025



This report has been prepared to summarise the re-submission in response to Arun DC drainage comments dated 06.08.2025 and subsequent meeting where further information required was clarified..

Please refer to the comments tracker dated 22.08.2025 for detailed response to each comment raised.

In addition the following updates are now included:

Surcharged Analysis

With reference to comment tracker item 15, ADC clarified that each surface water system must be simulated with a surcharged outfall, where applicable. New drawing SK52 (NORTH) & SK53 (SOUTH) highlight each outfall location, qualify the lowest top of bank level and surcharge level used.

All SOUTH systems contain the 1:100yr plus 45% climate change with no flooding.

All NORTH system contain the 1:100yr plus 45% climate change with no flooding, with two expectations summarised below.

NORTH Outfall S23 shows some very minor flooding (3m³) to the lower lying S38 highway, however this is mitigated by provision of the additional buffer storage at the watercourse junction.

NORTH Outfall Headwall S38-B requires tie-in to the existing main road and is constraint (levels & WSCC S38 stds) where storage can be provided prior to discharging to the receiving watercourse. Additional surcharge analysis has been provided to demonstrate surcharge compliance with the receiving 600mm diameter culvert, however minor flooding may occur if water levels rise above. In order to mitigate this situation additional road gullies have been provided to reduce standing time (these will also provide unclaimed storage within the pots & laterals). In addition the realigned watercourse diversion provides additional buffer storage at this location.

Surface Water Management and Maintenance Report

With reference to comment tracker item 3, the designers risk assessment has been included.

The following updated information is enclosed:

ADC Comments Tracker with designer response

D2240-DS-1.2 - Design Statement

Drawing Issue Register NORTH

Drawing Issue Register SOUTH

Drawings NORTH Parcel (Red denotes update)

D2240-41 Drainage-Sht1 i

D2240-42 Drainage-Sht2 K

D2240-43 Drainage-Sht3 L

D2240-44 Drainage-Sht4 J

D2240-45 Drainage-Sht5 F

D2240-46 Drainage-Sht6 F

D2240-47 Drainage-Sht7 F

D2240-48 Drainage-Sht8 F

D2240-49 Drainage-Sht9 F
 D2240-50 Drainage-Sht 10 E
 D2240-1100 S38 Highway Drainage Sections C
 D2240-1101 S38 Highway Basin Cross Sections A
 D2240-1300 S104 Longitudinal Sections-Sht1 A
 D2240-1301 S104 Longitudinal Sections-Sht2 A
 D2240-1302 S104 Longitudinal Sections-Sht3 A
 D2240-1303 S104 Longitudinal Sections-Sht4 A
 D2240-1304 S104 Longitudinal Sections-Sht5 A
 D2240-1310 S104 FW Longitudinal Sections-Sht1 B
 D2240-1311 S104 FW Longitudinal Sections-Sht2 B
 D2240-1312 S104 FW Longitudinal Sections-Sht3 B
 D2240-1313 S104 FW Longitudinal Sections-Sht4 B
 D2240-1314 S104 FW Longitudinal Sections-Sht5 B
 D2240-1400 S104 MH Schedule (NORTH)-Sht1 G
 D2240-1401 Private MH Schedule NORTH-Sht1
 D2240-1500 S104 Impermeable Areas-Sht1 NORTH C
 D2240-1501 S104 Impermeable Areas-Sht2 NORTH B
 D2240-2001-S104 Basin Sections-Sht1 D
 D2240-2002-S104 Basin Sections-Sht2 C
 D2240-2003-S104 Basin Sections-Sht3 C
 D2240-2004-S104 Basin Sections-Sht4 D
 D2240-2005-S104 Basin Sections-Sht5 D
 D2240-2006-S104 Basin Sections-Sht6 D
 D2240-2007-S104 Basin Sections-Sht7 C
 D2240-3000 Maintenance Plan NORTH-Sht1 A
 D2240-3001 Maintenance Plan NORTH-Sht2 B
 D2240-6000 S104 Legal Agreement Plan NORTH-Sht1 i
 D2240-6001 S104 Legal Agreement Plan NORTH-Sht2 E
 D2240-6002 S104 Construction Details-Sht1 A
 D2240-6003 S104 Construction Details-Sht2 B
 D2240-6020 Private Drainage Details-Sht1
 D2240-6021 Private Drainage Details-Sht2
 D2240-6022 Private Drainage Details-Sht3
 D2240-6030 S104 Pumping Station Sht1
 D2240-6031 S104 Pumping Station Sht2 A

Drawings SOUTH Parcel (Red denotes update)

D2240-140 Drainage-Sht1-C
 D2240-141 Drainage-Sht2-C
 D2240-142 Drainage-Sht3-E
 D2240-143 Drainage-Sht4-C
 D2240-144 Drainage-Sht5-C
 D2240-145 Drainage-Sht6-E
 D2240-146 Drainage-Sht7-C
 D2240-147 Drainage-Sht8-E
 D2240-148 Drainage-Sht9-C
 D2240-149 Drainage-Sht10-E
 D2240-1320 S104 SW Longitudinal Sections (SOUTH)-Sht1-A
 D2240-1321 S104 SW Longitudinal Sections (SOUTH)-Sht2-A
 D2240-1322 S104 SW Longitudinal Sections (SOUTH)-Sht3-A
 D2240-1323 S104 SW Longitudinal Sections (SOUTH)-Sht4-A
 D2240-1324 S104 SW Longitudinal Sections (SOUTH)-Sht5-A
 D2240-1325 S104 SW Longitudinal Sections (SOUTH)-Sht6
 D2240-1330 S104 FW Longitudinal Sections (SOUTH)-Sht1-B
 D2240-1331 S104 FW Longitudinal Sections (SOUTH)-Sht2-B
 D2240-1332 S104 FW Longitudinal Sections (SOUTH)-Sht3-B
 D2240-1333 S104 FW Longitudinal Sections (SOUTH)-Sht4-B

D2240-1334 S104 FW Longitudinal Sections (SOUTH)-Sht5-B

D2240-1410 S104 MH Schedule (SOUTH)Sht1 C

D2240-1411 Private MH Schedule SOUTH-Sht1

D2240-1412 Private MH Schedule SOUTH-Sht2

D2240-2100-S104 Pond Sections (SOUTH)-Sht1-A

D2240-2101-S104 Pond Sections (SOUTH)-Sht2-A

D2240-2102-S104 Pond Sections (SOUTH)-Sht3-A

D2240-2103-S104 Pond Sections (SOUTH)-Sht4-B

D2240-2104-S104 Pond Sections (SOUTH)-Sht5-A

D2240-2105-S104 Pond Sections (SOUTH)-Sht6-C

D2240-2106-S104 Pond Sections (SOUTH)-Sht7-C

D2240-2107-S104 Pond Sections (SOUTH)-Sht8

D2240-2108-S104 Pond Sections (SOUTH)-Sht9

D2240-2109-S104 Pond Sections (SOUTH)-Sht10

D2240-2110-S104 Pond Sections (SOUTH)-Sht11 A

D2240-2111-S104 Pond Sections (SOUTH)-Sht12-A

D2240-2112-S104 Pond Sections (SOUTH)-Sht13 A

D2240-1520 S104 Impermeable Areas Schedule-Sht1

D2240-1521 S104 Impermeable Areas Schedule-Sht2-A

D2240-2105-S104 Pond Sections (SOUTH)-Sht6-C

D2240-2110-S104 Pond Sections (SOUTH)-Sht11 A

D2240-2112-S104 Pond Sections (SOUTH)-Sht13 A

D2240-3100 Maintenance Plan SOUTH-Sht1

D2240-3101 Maintenance Plan SOUTH-Sht2

D2240-6100 S104 Legal Agreement Plan SOUTH-Sht1-B

D2240-6101 S104 Legal Agreement Plan SOUTH-Sht2-B

D2240-6102 S104 Construction Details (SOUTH)-Sht1 A

D2240-6103 S104 Construction Details (SOUTH)-Sht2 B

D2240-6120 Private Drainage Details (SOUTH)-Sht1

D2240-6121 Private Drainage Details (SOUTH)-Sht2

D2240-6122 Private Drainage Details (SOUTH)-Sht3

OWC/LDB

D2240-4000 OWC Access Road - Existing Site Plan D

D2240-4001 OWC Access Road - Proposed Site Plan D

D2240-4002 OWC Access Road - Cross-Sections A

D2240-4003 OWC Access Road - Long-Sections A

D2240-4010 OWC North Parcel - Existing Site Plan A

D2240-4011 OWC North Parcel - Proposed Site Plan A

D2240-4012 OWC North Parcel - Watercourse Sections B

D2240-4100 Arun Consent North - Existing Site Plan B

D2240-4101 Arun Consent North - Proposed Site Plan B

D2240-4102 Arun Consent North - Cross-Sections Rev C

D2240-4103 Arun Consent North - Long-Section Sht 1 of 3

D2240-4104 Arun Consent North - Long-Section Sht 2 of 3

D2240-4105 Arun Consent North - Long-Section Sht 3 of 3

D2240-4107 Arun Consent North - Existing Site Plan Sht 2

D2240-4108 Arun Consent North - Proposed Site Plan Sht 2

D2240-4200 OWC South - Location Plan

D2240-4201 OWC South - Proposed Site Plan-A

D2240-4202 OWC South - Cross-Sections-A

D2240-4203 OWC South - Cross-Sections

D2240-4204 OWC South - Long-Sections-A

D2240-4205 OWC South - Watercourse Sections-A

D2240-4300 Arun Consent South - Location Plan

D2240-4301 Arun Consent South - Proposed Site Plan-A

D2240-4302 Arun Consent South - Cross-Sections-A

D2240-4304 Arun Consent South - Long-Sections-A

D2240-4400 OWC North Ditch Realignment-Sht1 P01 (for S278 Updates/re-approval)
D2240-4401 OWC North Ditch Realignment-Sht2 P01 (for S278 Updates/re-approval)

High Level Drawing

D2240-SK50-LiDAR Overlay
D2240-SK52 Surcharge Analysis Plan-NORTH
D2240-SK53 Surcharge Analysis Plan-SOUTH

1D Hydraulic Modelling Updates

D2240 SW Calculations (Sys 1) - Outfall S38-3 (S278) (SURCHARGE 4.5m)
D2240 SW Calculations (Sys 1) - Outfall S38-3 (S278) (SURCHARGE culvert)
D2240 SW Calculations (Sys 2) - Outfall S38 HW-F (S38) (SURCHARGE)
D2240 SW Calculations (Sys 3) - Outfall S23 (SURCHARGE)
D2240 SW Calculations (Sys 4) - Outfall S33 Rev A (SURCHARGE)
D2240 SW Calculations (Sys 5) - Outfall S73 (SURCHARGE)
D2240 SW Calculations (Sys 6) - Outfall S99 (SURCHARGE)
D2240 SW Calculations (Sys 8) - Outfall S39 (SURCHARGE)
D2240 SW Calculations (Sys 9) - Outfall S7 (SURCHARGE)
D2240 SW Calculations (Sys 10) - Outfall S63 (SURCHARGE)
D2240 SW Calculations (Sys 11) - Outfall S21 (SURCHARGE)
D2240 SW Calculations (Sys 12) - Outfall S162 Rev B (SURCHARGE)

Flotation Calculations

D2240 System 3 (S11) (Basin Liner) Flotation Rev A

Groundwater Data

All re-supplied