

Technical Note 003		
Project Name and number:	Land South of Summer Lane, Pagham	D2240
Subject:	Update for Drainage Design	
Client:	Foreman Homes	
Prepared by and Date:	M. Akmenkalns	15.05.2026



This report has been prepared to summarise the re-submission in response to Arun DC planning drainage to summarise the design refinements that have been necessary as a result of the land owner requirements and future development parcel interests for the SOUTH parcel.

Overall the engineering design and SUDS strategy for the SOUTH parcel remains unchanged. The north east corner of the site requires alteration for the SUDS features where the surface water basin located in between the future allocation school site and rural path link/watercourse must be re-located.

As a result of the current planning approved layout, and known site constraints, there is insufficient space to re-located the basin within the confines of the site. Therefore the balance of SUDS storage from the basin has been provided with additional permeable pavement and geocellular storage.

The above variations only affect 'Network 12' and the relevant drawings and supporting information has been summarised below to assist ADC's review.

To clarify the changes are as follows:

- Drainage linked in 3 No sections with inclusion of 2 No additional flow controls.
- Road 8 changed to private road, installed as permeable pavement with 600mm sub-base storage (30% voids).
- Road 8 terminal end to include 75m length of 225mm diameter pipe in road upsized to 750mm diameter oversize sized (& enlarged manholes).
- Road 8 terminal end to include new geocellular tank added under road T-head 5m x 16m x 0.8m depth.
- Remaining geocellular tanks on network 12 locally upsized.

The drainage Network for the private section of Road 8 will not be adopted by IWNL.

IWNL re-approval of this variation is pending and evidence will be submitted in due course.

1D Hydraulic Calculations

Network 12 contains the 1:100yr plus 45% climate change with no flooding and includes a surcharged outfall analysis.

Surface Water Management and Maintenance Report

No changed necessary.

Document Summary

The following updated information is enclosed:

D2240-DS-1.2 - Design Statement

Drawing Issue Register SOUTH

Drawings SOUTH Parcel (Red denotes update for Network 12)

D2240-140 Drainage-Sht1-D

D2240-141 Drainage-Sht2-D
 D2240-142 Drainage-Sht3-F
 D2240-143 Drainage-Sht4-D
 D2240-144 Drainage-Sht5-D
 D2240-145 Drainage-Sht6-F
 D2240-146 Drainage-Sht7-D
 D2240-147 Drainage-Sht8-F
 D2240-148 Drainage-Sht9-D
 D2240-149 Drainage-Sht10-F
 D2240-1320 S104 SW Longitudinal Sections (SOUTH)-Sht1-B
 D2240-1321 S104 SW Longitudinal Sections (SOUTH)-Sht2-B
 D2240-1322 S104 SW Longitudinal Sections (SOUTH)-Sht3-B
 D2240-1323 S104 SW Longitudinal Sections (SOUTH)-Sht4-B
 D2240-1324 S104 SW Longitudinal Sections (SOUTH)-Sht5-B
 D2240-1325 S104 SW Longitudinal Sections (SOUTH)-Sht6-A
 D2240-1330 S104 FW Longitudinal Sections (SOUTH)-Sht1-C
 D2240-1331 S104 FW Longitudinal Sections (SOUTH)-Sht2-C
 D2240-1332 S104 FW Longitudinal Sections (SOUTH)-Sht3-C
 D2240-1333 S104 FW Longitudinal Sections (SOUTH)-Sht4-C
 D2240-1334 S104 FW Longitudinal Sections (SOUTH)-Sht5-C
 D2240-1410 S104 MH Schedule (SOUTH)Sht1 D
 D2240-1411 Private MH Schedule SOUTH-Sht1
 D2240-1412 Private MH Schedule SOUTH-Sht2
 D2240-2100-S104 Pond Sections (SOUTH)-Sht1-B
 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-A
 D2240-1521 S104 Impermeable Areas Schedule-Sht2-B
 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-A
 D2240-3101 Maintenance Plan SOUTH-Sht2-A
 D2240-6100 S104 Legal Agreement Plan SOUTH-Sht1-B (Pending INWL Review)
 D2240-6101 S104 Legal Agreement Plan SOUTH-Sht2-B (Pending INWL Review)
 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)

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 C (SURCHARGE)

Flotation Calculations

All enclosed.

Groundwater Data

All enclosed.

