Catchment A3 + Section of Sector 4
Catchment area = 2.36 ha
Paved Area Factor = 50.5%
Imp Area = 1.19 ha
Vol Req = 668m³ (Old = 464m³)
Vol Prov = 674m³ (Old = 500m³)
Allowable Outflow = 25.5 l/s (8.7+16.8)

APT. BLOCK D
32 UNITS

APT. BLOCK E
32 UNITS

Catchment 4
Drained area of 4 (4.54 ha)
Grassed Area = 25610m2
Green Roofs = 1800m2
Roofs Draining to Planters = 2338m2
Roofs Draining to gullies = 3109m2
Permeable Paving = 2970m2
PAF = 43.2%
Impermeable Area = 1.96ha

SA01
SA02

STOP

PROPOSED NORTH SIDE SuDS

SCALE 1:500

Storage Provision Required		
Interception calculation (5mm of rainfall)	Imp Area x 0.8 x 0.005 (45408x0.432x0.8x0.005)	78 m³
Required Interception Storage		**78 m³**
Interception Storage Provided		
Swales	Length x Width x Depth (376x1.0x0.1)	37 m³
Rain garden planters	Number x Volume (121 x 0.72)	87 m³
Green roofs	Area x Depth (1800 x 0.075)	135 m³
Total Storage		**259 m³**

Table 1: Treatment Volume Calculation

Treatment Storage Provision Required		
Treatment calculation (15mm of rainfall)	Imp Area x 0.8 x 0.015 (45408x0.432x0.8x0.015)	235 m³
Required Treatment Storage		**235 m³**
Treatment Storage Provided		
Infiltration Trenches	L x D x W x Voids (376x0.6x0.75x0.4)	68 m³
Permeable paving	Area x D x Voids (2970x0.35x0.4)	416 m³
Total Storage		**484 m³**

CHURCH FIELDS HOUSING
& EASTERN LINEAR PARK
GRANTED UNDER PART XI/012/21

Catchment A4 + Section of Sector 4
Catchment area = 2.57 ha
Paved Area Factor = 50.7%
Imp Area = 1.27 ha
Vol Req = 621m³ (Old = 464m³)
Vol Prov = 650m³ (Old = 473m³)
Allowable Outflow = 9.3 l/s

Catchment 4
Drained area of 4 (4.54 ha)
Grassed Area = 25610m2
Green Roofs = 1800m2
Roofs Draining to Planters = 2338m2
Roofs Draining to gullies = 3109m2
Permeable Paving = 2970m2
PAF = 43.2%
Impermeable Area = 1.96ha

PROPOSED SOUTH SIDE SuDS

SCALE 1:500

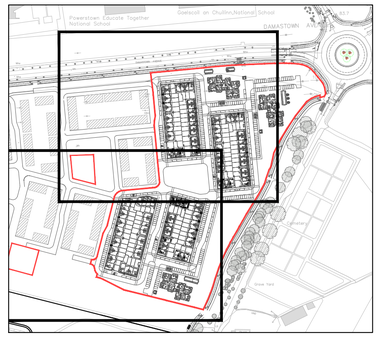
NOTES:

1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.

LEGEND

- PROPOSED ATTENUATION BASIN
- PROPOSES SWALES
- PROPOSED GREEN ROOF
- PROPOSED PERMEABLE PAVING
- PROPOSED RAIN GARDENS
- PROPOSED CATCHMENT A3
- PROPOSED CATCHMENT A4
- PROPOSED CATCHMENT 4
- SA01 SOAKAWAY TEST LOCATION

1:500 0 10.0 20.0 30.0 40.0 50.0m
1:1 0 10 20 30 40 50 60 70 80 90 100



SITE LOCATION MAP

SCALE 1:2500

Comhairle Contae Fhine Gall
Fingal County Council

REV.	DATE	AMENDMENT	DRN	APPD
—	31/05/23	ISSUED FOR PLANNING	MS	IW

STATUS **FOR PLANNING ONLY. NOT FOR CONSTRUCTION**

Waterman Moylan
Engineering Consultants
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CLIENT FINGAL COUNTY COUNCIL
ARCHITECT WALSH & ASSOCIATES
PROJECT CHURCH FIELDS EAST
TITLE PROPOSED SuDS LAYOUT

DRAWN	DESIGNED	APPROVED	DATE
MS	NM	IW	MAY 2023
SCALE A1 @ 1:500	JOB NO. 20-074	DRG. NO. P4205	REVISION

May 30, 2023 - 4:19pm Drawing Location: \\wmfilesvr\Moylan\Projects\20\20-074 - Churchfields\Drawings\Waterman Moylan\Civil\Planning - Church Fields East Sector 4\Sector 4\20-074 - P4205 - Proposed SuDS Layout - Sector 4.dwg