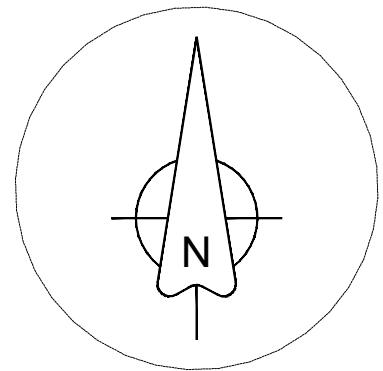
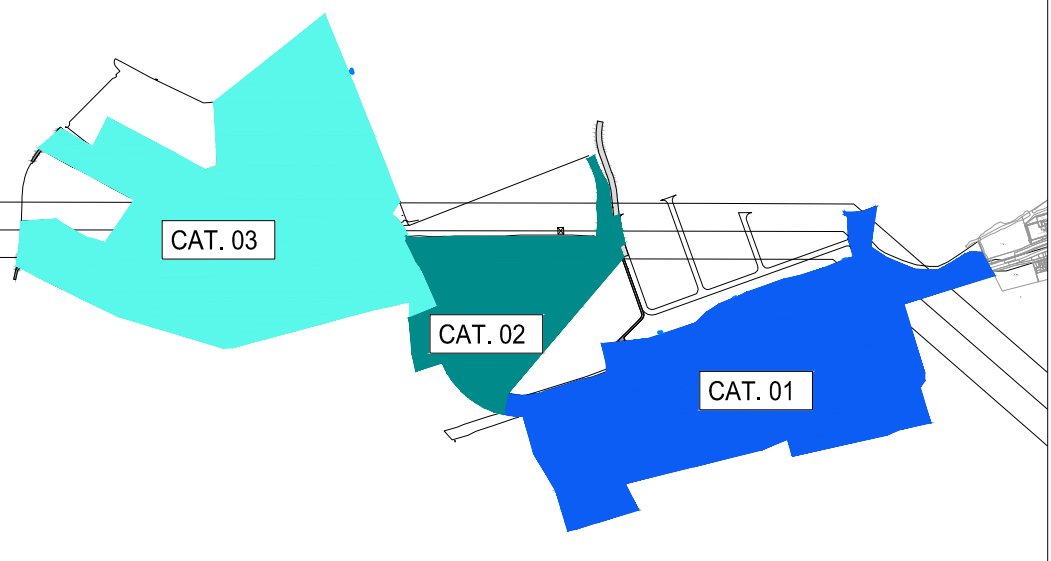




KEY PLAN



Site Catchment Summary			
Surface type	Area (m²)	Effective Area (m²)	Volume Provided(m³)
Site Catchment 1	73359	34468.35	5337
Site Catchment 2	29484	23994.3	2416
Site Catchment 3	86398	54005.05	8024
Total	189241	112468	15777

REFER TO DRAWING
P211102-XX-XX-DR-C-00200
FOR SUDS DRAINAGE LAYOUT

	Site Catchment 1			
	Surface type	Area (m²)	C-Value	Effective Area (m²)
	Roof	8812	0.95	8371.4
	Cycle Track	1866	0.90	1679.4
	Footpath	6423	0.90	5780.7
	Road	7900	0.90	7110
	Private Landscape	8208	0.20	1641.6
	Public Landscape	27410	0.10	2741
	Permeable Paving	5800	0.90	5220
	Rain Garden	1506	0.90	1355.4
	Detention Basin	4622	1.00	4622
	Bio Retention Areas/Tree Pit	812	0.90	730.8
	Green roof	0	0.90	0
	Total	73359	NA	39252.3
		Average C Value	0.54	
		Hardstanding %	53.51	
	Assumed C value for attenuation volume assessment		0.54	39252.3
C-Value of 0.2 for Private Landscape Areas used due to urban creep				
Site Catchment 1 Attenuation Storage				
Estimated Attenuation Storage Provided				
			SDCC SuDS annual - Indicative Attenuation storage (m³ of storage per m² of SuDS structure)	
	SuDS Element	Value	Units	Volume m³
	Permeable Paving (0.35m deep sub base)	5800.00	m³	870
	Bio Retention Tree Pit	812.00	m²	243.6
	Rain Garden	1371.00	m²	411.3
	Private Rainwater Planters	135.00	m²	40.5
	Green Roofs	0.00	m²	0
	Swales	904.00	m²	542.4
	Land/Filter Drains	521.00	m²	104.2
	Detention Basin	3125	m³	3125
	Total			5337

Site Catchment 2				
Surface type		Area (m²)	C-Value	Effective Area (m²)
	Roof	2650	0.95	2517.5
	Cycle Track	442	0.90	397.8
	Footpath	6545	0.90	5890.5
	Road	3869	0.90	3482.1
	Private Landscape	2115	0.20	423
	Public Landscape	7303	0.10	730.3
	Permeable Paving	1770	0.90	1593
	Rain Garden	546	0.90	491.4
	Detention Basin	1689	1.00	1689
	Bio Retention Areas/Tree Pit	785	0.90	706.5
	Green roof	1770	1.00	1770
	Total	29484	NA	19691.1
		Average C Value	0.67	
		Hardstanding %	66.79	
Assumed C value for attenuation volume assessment			0.67	19691.1
C-Value of 0.2 for Private Landscape Areas used due to urban creep				
Site Catchment 2 Attenuation Storage				
Estimated Attenuation Storage Provided				
SuDS Element		Value	Units	SDCC SuDS annual - Indicative Attenuation storage (m³ of storage per m² of SuDS structure)
Permeable Paving (0.35m deep sub base)		1770.00	m³	0.15
Bio Retention Tree Pit		785.00	m²	0.3
Rain Garden		481.00	m²	0.3
Private Rainwater Planters		65.00	m²	0.3
Green Roofs		1770.00	m²	0.075
Swales		564.00	m²	0.6
Land/Filter Drains		0.00	m²	0.4
Detention Basin		1280	m³	1
Total				

Site Catchment 3				
Surface type	Area (m ²)	C-Value	Effective Area (m ²)	
Roof	14030	0.95	13328.5	
Cycle Track	2040	0.90	1836	
Footpath	9899	0.90	8909.1	
Road	13748	0.90	12373.2	
Private Landscape	7798	0.20	1559.6	
Public Landscape	22056	0.10	2205.6	
Permeable Paving	5105	0.90	4594.5	
Rain Garden	2080	0.90	1872	
Detention Basin	6826	1.00	6826	
Bio Retention Areas/Tree Pit	2495	0.90	2245.5	
Green roof	321	1.00	321	
Total	86398	NA	56071	
		Average C Value	0.65	
		Hardstanding %	64.90	
Assumed C value for attenuation volume assessment		0.65	56071	
C-Value of 0.2 for Private Landscape Areas used due to urban creep				
Site Catchment 3 Attenuation Storage				
Estimated Attenuation Storage Provided				
SuDS Element	Value	Units	SDCC SuDS annual - Indicative Attenuation storage (m ³ of storage per m ² of SuDS structure)	Volume m ³
Permeable Paving (0.35m deep sub base)	5105.00	m ³	0.15	765.75
Bio Retention Tree Pit	2495.00	m ²	0.3	748.5
Rain Garden	1807.00	m ²	0.3	542.1
Private Rainwater Planters	273.00	m ²	0.3	81.9
Green Roofs	321.00	m ²	0.075	24.075
Swales	1454.00	m ²	0.6	872.4
Land/Filter Drains	0.00	m ²	0.4	0
Detention Basin	4989	m ³	1	4989
Total				8024

GENERAL NOTES

- DO NOT SCALE THIS DRAWING. WORK ONLY TO FIGURED DIMENSIONS.
- FOR ALL RELEVANT NOTES, REFER TO STRUCTURAL AND CIVIL ENGINEERING PERFORMANCE SPECIFICATION.
- ANY DISCREPANCIES ARE TO BE REPORTED TO PINNACLE CONSULTING ENGINEERS IMMEDIATELY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SUB-CONTRACTORS DRAWINGS AND DETAILS.
- THIS DRAWING IS TO BE PRINTED IN COLOUR.
- THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS EXPRESSLY STATED.
- EXISTING SITE AND LEVEL INFORMATION TAKEN FROM LAND SURVEYS TOPOGRAPHICAL SURVEY DRAWING D1728F2D DATED 04/10/06.
- THIS DRAWING HAS BEEN PREPARED USING THE PROPOSED SITE LAYOUT FROM DAVEY + SMITH ARCHITECTS DRAWING IP00 DATED 16/08/24.

DRAINAGE NOTES

- ALL PUBLIC SURFACE WATER SEWERS TO BE MINIMUM 225 DIA. CLASS H CONCRETE TO EN1916 & IS 6 2004 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
- ALL SURFACE WATER CONNECTIONS TO BE MINIMUM 150mmØ UPVC TO IS EN 1401 2009/2012 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
- LOCATION AND INVERT LEVELS OF EXISTING MANHOLES OR OUTFALL POINTS, WHERE APPLICABLE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
- ALL COVER LEVELS TO MATCH FINISHED ROAD/VERGE/FOOTPATH/CYCLETRACK LEVELS UNLESS OTHERWISE STATED.

SCALE 1:500
0 5 10 15 20 25m
DIMENSIONS IN METRES

P01 ISSUED FOR PLANNING		FJVR JB 02/09/24	
REV	DESCRIPTION	BY	CHK/ APP DATE

CLIENT
CAPAMI LTD

PROJECT
OLDCOURT LRD

DRAWING TITLE
SURFACE WATER
CATCHMENT LAYOUT
OVERALL LAYOUT

PINNACLE
CONSULTING ENGINEERS

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DRAWING STATUS				
PLANNING				
SCALE @ A1	DATE	DRAWN BY	CHECKED	APPROVED
1:2000	04/07/24	FJVR	JB	SOR
DRG NO.	P211102-PIN-XX-XX-DR-C-00610-S2			REV. P01

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