

SUB-CATCHMENT 1-1 - Apartment blocks C, D, E, F and podium area

INTERCEPTION / TREATMENT STORAGE CALCULATIONS

Interception Required

Total Imperviable Area	11,154.00 m ²
Volume of 10mm Rainfall on Surface	111.54 m ³

Landscaped Area - Intercepts itself and not included in total area

Interception Provided

Green roof - Intercepts Itself	
Area	2,271.52 m ²
Volume of 10mm Rainfall on Surface	22.72 m ³
Drainage Layer Depth	0.10 m
Drainage Layer Void	30.00 %
Interception Volume Available	22.72 m ³
Exceeds Interception Required?	YES

Blue podium - Intercepts itself and hardstanding roofs	
Podium area	5,266.00 m ²
Total hardstanding area	8,497.59 m ²
Volume of 10mm Rainfall on Surface	84.98 m ³
Drainage Layer Depth	0.30 m
Drainage Layer Void	30.00 %
Interception Volume Available	473.94 m ³
Exceeds Interception Required?	YES

Total Volume Available

496.66 m ³
YES

SUB-CATCHMENT 1-2 - Road

INTERCEPTION / TREATMENT STORAGE CALCULATIONS

Interception Required

Total Imperviable Area	4,793.00 m ²
Volume of 10mm Rainfall on Surface	47.93 m ³

Landscaped Area - Intercepts itself and not included in total area

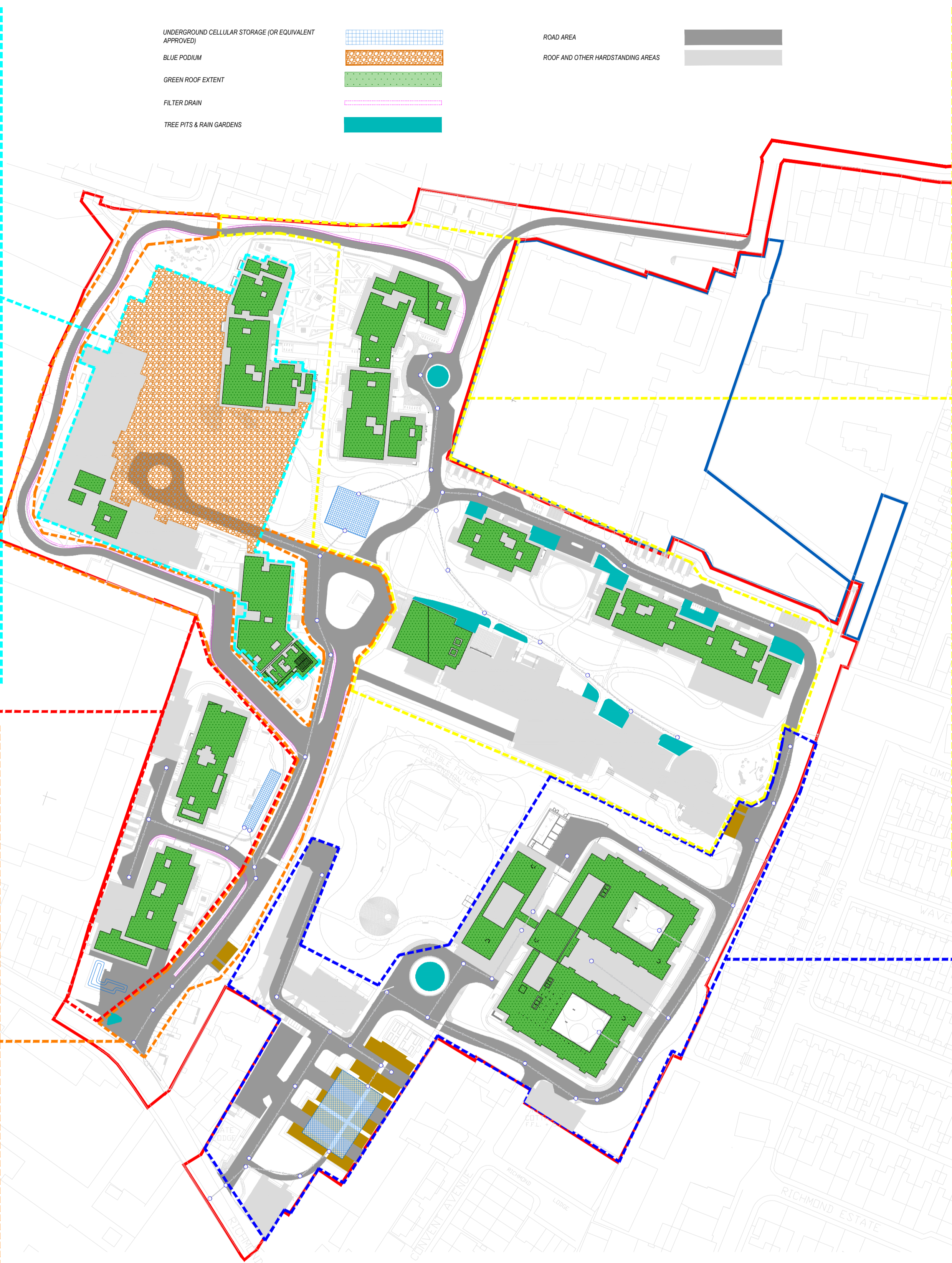
Interception Provided

PerVIOUS Paving - Intercepts itself and road around it	
Paving area	50.00 m ²
Total hardstanding area	100.00 m ²
Volume of 10mm Rainfall on Surface	1.00 m ³
Drainage Layer Depth	0.30 m
Drainage Layer Void	30.00 %
Interception Volume Available	4.50 m ³
Exceeds Interception Required?	YES

Filter drain - Intercepts Adjacent road	
Filter drain Area	464.89 m ²
Total hardstanding area	4,693.00 m ²
Volume of 10mm Rainfall on Surface	46.93 m ³
Drainage Layer Depth	0.50 m
Drainage Layer Void	30.00 %
Interception Volume Available	69.73 m ³
Exceeds Interception Required?	YES

Total Volume Available

74.23 m ³
YES



SUB-CATCHMENT 1-4 - Block H,J, K, L and surrounding area

INTERCEPTION / TREATMENT STORAGE CALCULATIONS

Interception Required

Total Imperviable Area	10,575.23 m ²
Volume of 10mm Rainfall on Surface	105.75 m ³

Landscaped Area - Intercepts itself and not included in total area

Interception Provided

Green Roof - Intercepts Itself	
Area	2,052.20 m ²
Volume of 10mm Rainfall on Surface	20.52 m ³
Drainage Layer Depth	0.10 m
Drainage Layer Void	30.00 %
Interception Volume Available	20.52 m ³
Exceeds Interception Required?	YES

Rain garden and tree pits - Intercepts Itself and Hard Surface Area	
Rain Gardens and tree pits Area	786.31 m ²
Hard Surface Area	8,041.52 m ²
Volume of 10mm Rainfall on Surface	80.42 m ³
Drainage Layer Depth	0.50 m
Drainage Layer Void	30.00 %
Interception Volume Available	117.95 m ³
Exceeds Interception Required?	YES

Filter drain - Intercepts Adjacent road	
Filter drain Area	129.33 m ²
Total hardstanding area	481.51 m ²
Volume of 10mm Rainfall on Surface	4.82 m ³
Drainage Layer Depth	0.50 m
Drainage Layer Void	30.00 %
Interception Volume Available	19.40 m ³
Exceeds Interception Required?	YES

Total Volume Available

157.87 m ³
YES

CATCHMENT 2 Hospital area

INTERCEPTION / TREATMENT STORAGE CALCULATIONS

Interception Required

Total Imperviable Area	10,751.36 m ²
Volume of 10mm Rainfall on Surface	107.51 m ³

Landscaped Area - Intercepts itself and not included in total area

Interception Provided

Green Roof - Intercepts Itself	
Area	2,997.42 m ²
Volume of 10mm Rainfall on Surface	29.97 m ³
Drainage Layer Depth	0.10 m
Drainage Layer Void	30.00 %
Interception Volume Available	29.97 m ³
Exceeds Interception Required?	YES

PerVIOUS Paving - Intercepts itself and adjacent road	
Paving area	846.06 m ²
Total hardstanding area	5,046.27 m ²
Volume of 10mm Rainfall on Surface	50.46 m ³
Drainage Layer Depth	0.30 m
Drainage Layer Void	30.00 %
Interception Volume Available	76.15 m ³
Exceeds Interception Required?	YES

Tree pits - Intercepts Itself and adjacent road	
Tree pit area	113.10 m ²
Total hardstanding area	555.09 m ²
Volume of 10mm Rainfall on Surface	5.55 m ³
Drainage Layer Depth	0.50 m
Drainage Layer Void	30.00 %
Interception Volume Available	16.97 m ³
Exceeds Interception Required?	YES

Base of attenuation tank - intercepts road	
Area	617.50 m ²
Total hardstanding area	2,152.58 m ²
Volume of 10mm Rainfall on Surface	21.53 m ³
Drainage Layer Depth	0.15 m
Drainage Layer Void	30.00 %
Interception Volume Available	27.79 m ³
Exceeds Interception Required?	YES

Total Volume Available

150.87 m ³
YES

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Rev No.	Date	Revision Note	Drn by	Chkd by
P01	02.03.23	SUITABLE FOR PLANNING	MKo	MK
P02	23.03.23	REVISED RED LINE BOUNDARY	MKo	MK

Rev No.	Date	Revision Note	Drn by	Chkd by

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Client: ST. VINCENT'S HOSPITAL FAIRVIEW
Project: ST. VINCENT'S HOSPITAL
FAIRVIEW REDEVELOPMENT
Title: PROPOSED CATCHMENT LAYOUT

Code	Originator	Zone	Level	Type	Role	Number	Status	Revision
R517	OCSC	XX	XX	DR	C	0505	S4	P02
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