





Client: DaVinci  
 job: Cider Works Bell Lane TN27 8NT  
 title: site layout plan as existing  
 scale: 1-500 on A3 date July 2022 dwn. GB  
 drawing number: 22-20-02 rev.-  
**F1**  
 PRIME  
 FOLIO  
 01622 691169



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#### U value of thermal elements

##### ground floor

perimetre / area = 92.2m / 260 sqm. = 0.35

150mm Europhane GP below 100mm concrete slab.  $U = 0.12 \text{ W/m}^2\text{K}$

walls (NE & NW) 176 sqm

Beco Wallform 438.  $U = 0.11 \text{ W/m}^2\text{K}$  (ignoring earth covering)

walls (SE & SW & monopitch gable ends) 36 sqm

100mm rendered block, 50mm clear cavity, 100mm Eurowall, 100mm rendered block.  $U = 0.14 \text{ W/m}^2\text{K}$

roof (flat roof earth covered) 90 sqm

concrete deck, 150mm Europhane Powerdeck F, single ply membrane.

$U = 0.15 \text{ W/m}^2\text{K}$  (ignoring earth covering)

roof (pitched at 20 degrees) 204 sqm

PV panels on framing, upvc membrane, 18mm ply, 150mm Europhane GP over rafters, 50mm between rafters, plasterboard finish internally.  $U = 0.11 \text{ W/m}^2\text{K}$

#### Photovoltaic electricity generation

94 x 400W panels (21.8% efficiency) = 37,600 W

0 2 4  
scale (m) 1-100 on A3 size print

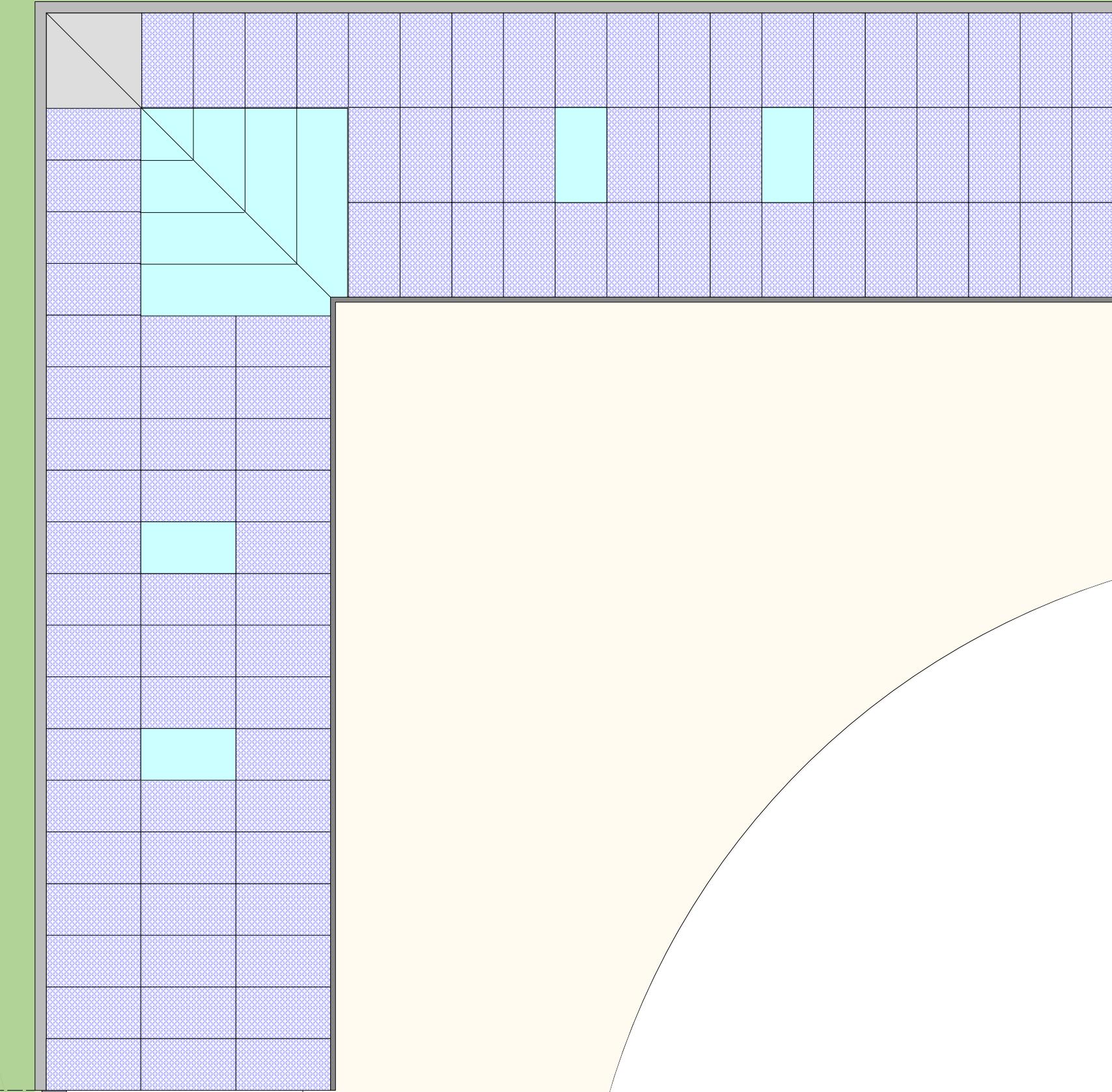
Client: DaVinci  
job: Cider Works Orchard, Bell Lane TN27 8NT  
title: ground floor as proposed  
scale: 1-100 on A3 date July 2022 dwn. GB  
drawing number: 22-20-04 rev.-  
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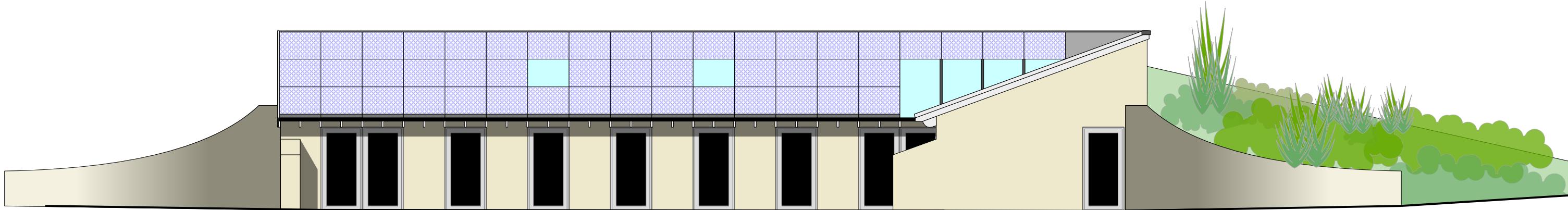
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ROOF ANGLE	WEST				SOUTH								EAST				
	90°	75°	60°	45°	30°	15°	0°	15°	30°	45°	60°	75°	90°	90°	75°	60°	45°
90°	56	60	64	67	69	71	71	71	71	69	65	62	58				
80°	63	68	72	75	77	79	80	80	79	77	74	69	65				
70°	69	74	78	82	85	86	87	87	86	84	80	76	70				
60°	74	79	84	87	90	91	93	93	92	89	86	81	76				
50°	78	84	88	92	95	96	97	97	96	93	89	85	80				
40°	82	86	90	95	97	99	100	99	98	96	92	88	84				
30°	86	89	93	96	98	99	100	100	98	96	94	90	86				
20°	87	90	93	96	97	98	98	98	97	96	94	91	88				
10°	89	91	92	94	95	95	96	95	95	94	93	91	90				
0°	90	90	90	90	90	90	90	90	90	90	90	90	90				

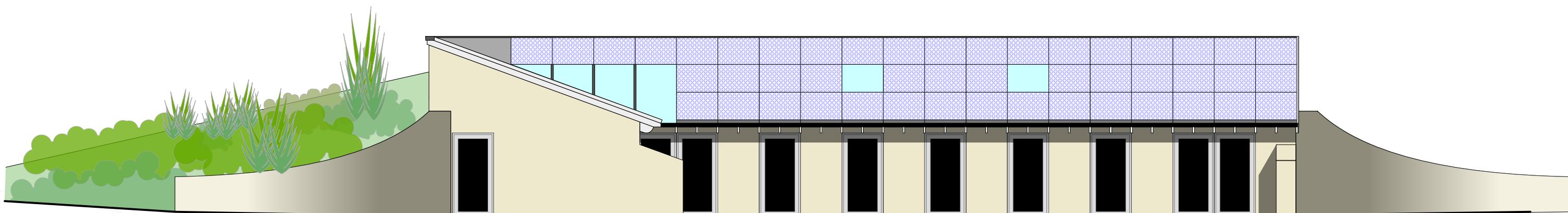
94 x 400W panels (21.8% efficiency) = 37,600 W



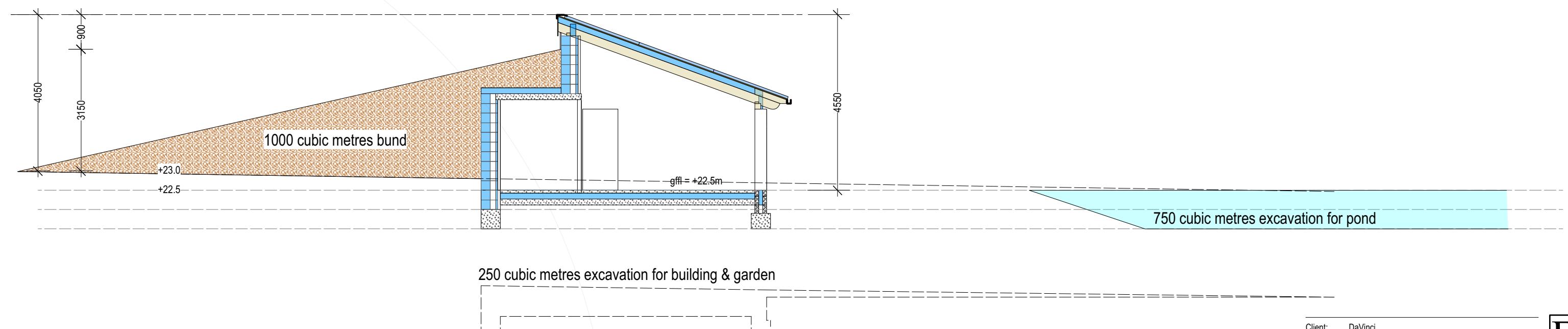
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south east elevation



south west elevation



0 2 4  
scale (m) 1-100 on A3 size print

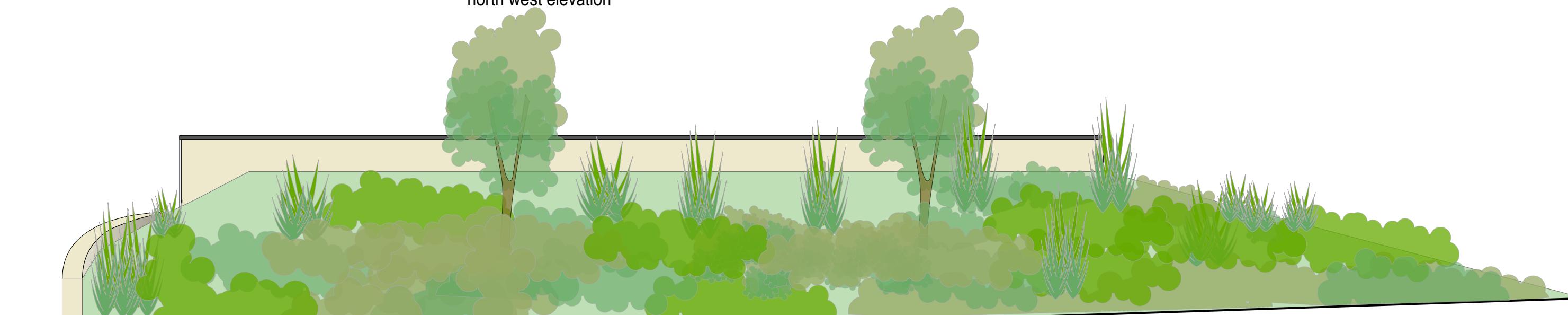
Client: DaVinci  
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north west elevation



north east elevation

0 2 4

scale (m) 1-100 on A3 size print

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