

## Document Issue Register

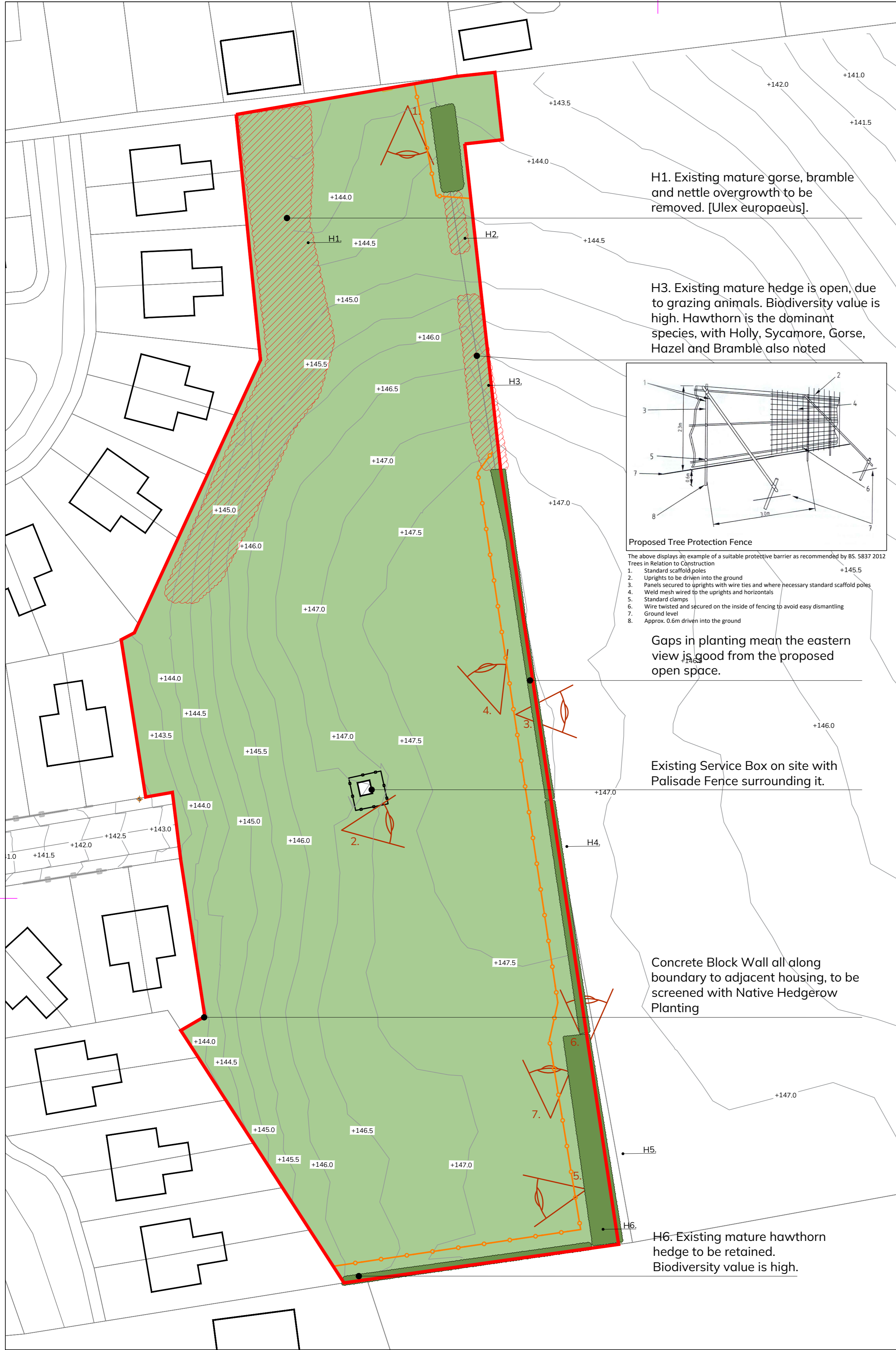
Project title: Residential Development, Millstreet Co. Cork

The following drawings and documents are included in the Planning package for Cork County Council, date 01/03/2024

### Landscape Architect Drawings

<b>Drg no.</b>	<b>Drg Title</b>	<b>Scale</b>	<b>Drg print size</b>
P608-201	Tree Retention Removal Plan	1:400	A1
P608-202	Landscape Plan	1:300	A1
P608-203	Details Sheet 1 of 2 Hard Works Details	1:20	A1
P608-204	Details Sheet 2 of 2 Soft Works Details	1:20	A1
n.a.	Landscape Design Report with Green infrastructure Statement	n.a.	A4





### Legend

- Site boundary (boundary off set by 1m for clarity)
  - Existing hedgerows on site, with corresponding number from hedgerow survey.
  - Photograph numbers, directions, and approx. angle of view.
  - Existing Grass Land.
  - Existing vegetation to be removed
  - Proposed tree protection fence, to be installed prior to commencement of works on site.
  - Existing Timber post and Rail fence
  - Existing Lamp posts
- Note:** Drawing is to be read in conjunction with all other architects and engineers drawings.
- 

### Quantities of vegetation for removal or replacement

Approx. 93 lin. m of existing gorse and bramble to be removed.  
 40 linear metres of existing hedging to be removed.  
 Replacement planting to include (See Landscape Plan P608-202):

- 274 lin m of new double row native hedging.
- New planting into existing hedgerows, creating 180 m of refurbished and replenished existing native hedgerows.
- 448m<sup>2</sup> of new Woodland edge and Native Shrub planting.
- 62 new mature tree planting
- New Rain Gardens, Bioswales, Meadows and Floral Lawns.



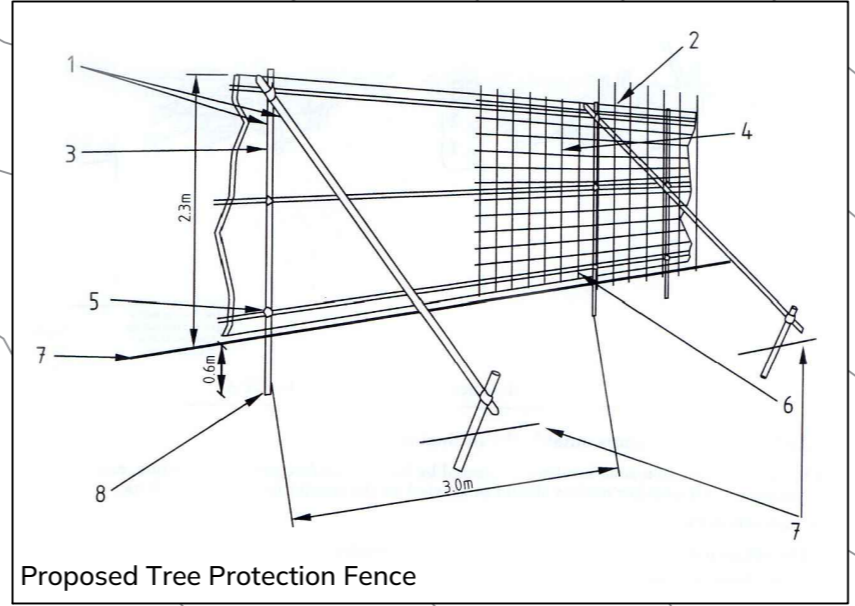
Photograph 1: view looking south.



Photograph 2: note gap in mature Hedge line.



Photograph 3: Borrowed view of landscape through gap in Hedgerow.



Gaps in planting mean the eastern view is good from the proposed open space.

Existing Service Box on site with Palisade Fence surrounding it.

Concrete Block Wall all along boundary to adjacent housing, to be screened with Native Hedgerow Planting

H6. Existing mature hawthorn hedge to be retained. Biodiversity value is high.



Photograph 4: view looking north.



Photograph 5: view looking west.



Photograph 6: Detail of growth, habitat and open character of hedgerow



Photograph 7: eastern boundary hedgerow.

Hedgerow Survey				
No.	Name	Description	Height	Action
H1	Gorse Wildgrowth	Mature Gorse growth, Ulex europaeus	1.5m	Replace
H2	Mixed Native Hedgerow	Mature Hedgerow, Hawthorn, Bramble, Holly, Hazel and Bramble. Gaps within hedgerow due to grazing. To be planted where gaps are visible. Existing hedgerow has high pollinator value.	2m	Retain, interplant
H3	Mixed Native Hedgerow	Mature Hedgerow, Hawthorn, Bramble, Holly, Hazel and Bramble. Gaps within hedgerow due to grazing. To be planted where gaps are visible. Existing hedgerow has high pollinator value.	3m	Retain, interplant
H4	Mixed Native Hedgerow	Mature Hedgerow, Hawthorn, Bramble, Holly, Hazel and Bramble. Gaps within hedgerow due to grazing. To be planted where gaps are visible. Existing hedgerow has high pollinator value.	3m	Retain, interplant
H5	Mixed Native Hedgerow	Mature Hedgerow, Hawthorn, Bramble, Holly, Hazel and Bramble. Gaps within hedgerow due to grazing. To be planted where gaps are visible. Existing hedgerow has high pollinator value.	3m	Retain, interplant
H6	Mixed Native Hedgerow	Mainly Hawthorn (Crataegus monogyna) High Biodiverse Quality.	3m	Retain

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Issue no.	Description	Date	Sign	Chk'd

Client: Cork County Council  
 Project: Residential Development Millstreet, Cork.  
 Drg Title: Tree Retention and Removal Plan  
 Stage: Planning

Client: **DRLA**  
 LANDSCAPE ARCHITECTS

Drg. No.: P608-201  
 Scale: 1:400 @ A1  
 Date: 4th March 2024  
 Drawn By: RVS Checked by: DR

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## Legend

### Hard Landscape

- Site Boundary (offset 1m for clarity).
- ▭ Proposed 2m wide Brushed Concrete Path.
- ▭ Proposed Fine Bound Gravel Path and Surfaces, minimum of 1.2m wide. See detail on sheet P608-203 Hard Works Details.
- ▭ Proposed Permeable Paving at Car Parking.
- Proposed Timber Kerb to Planting Beds and Fine Bound Gravel Surfaces. See detail on sheet P608-204 Soft Works Details.
- ⚡ 16no. Proposed Bicycle Parking. See detail on sheet P608-203 Hard Works Details.
- 1no. Proposed 2m Long Timber Bench with Backrest. See detail on sheet P608-203 Hard Works Details.
- Proposed Nature Timber Play Elements, Logs and Stone Boulders Locally sourced. See detail on Sheet P608-203 Hard Works Details.
- 1no. Proposed Timber Picnic bench. See detail on sheet P608-203 Hard Works Details.
- 1no. Proposed 4m Long Timber Bench with Backrest.

- Boundary types for residential boundaries. See also architects boundary drawing
- Boundary Treatment A - Concrete Post & Concrete Panel Construction - 1.8m high
  - Boundary Treatment B - 1.8m high 100mm blockwork rendered on public side with concrete capping
  - Boundary Treatment C - 1.8m high post and wire fence
  - Boundary Treatment D - 1.8m 215mm blockwork wall with concrete capping
  - Boundary Treatment E - 1.2m blockwork wall with concrete capping, plastered both sides.

- ▭ Proposed Concrete footpath of 1m wide to the back of housing.
- ▴ Location of Entrances
- ▭ Gates to Gardens
- Kerbs to facilitate drainage into swales
- bird nesting boxes
- Bat boxes

**Note:** See also Landscape drawings numbered P608-201, P608-103 and P608-104  
 This drawing is to be read in conjunction with all other Architects drawings and Engineers drawings.

### Soft Landscape

- 62no. Trees to be planted, see plant list below.
- ▭ Proposed 1.6m tall native mixed Hedge at site boundary.
- ▭ Existing hedge to be retained and proposed to be filled where gaps appear.
- ▭ Proposed Pollinator Friendly Shrub and Perennial Beds.
- ▭ Proposed Rain Garden Bio Swale.
- ▭ Proposed Amenity Floral Grass Lawn.
- ▭ Proposed Wildflower Meadow.
- ▭ Proposed Woodland Edge/ Native Shrub Planting.
- ▭ Proposed Grass Bio Swale.
- ▭ Proposed Grasscrete
- ▭ Proposed Lawn to Private Garden and Potential Planting Beds
- ▭ Proposed Naturalized Attenuation Hollow

See planting list and drawing P608-204 for Soft Work Details.

### Plant List

**Retained Mixed Native Hedgerow on Site Boundary** - to be trimmed where needed and additional transplants to be planted in gaps with: *Crateagus monogyna*, *Prunus spinosa*, *Viburnum opulus*, *Ilex aquifolium*, to be planted with approx 2 per linn where necessary, 0.9-1.2m b/r at 0.5m spacing 360no. plants (180linm).

**Mixed Native Hedgerow on Site Boundary** - (274linm) double row *Crateagus monogyna* (75%), *Prunus spinosa*, *Viburnum opulus*, *Ilex aquifolium*, 0.9-1.2m b/r at 0.3m spacing 1827 no. plants.

**Raingarden** - 70m<sup>2</sup> to be planted at 4/m<sup>2</sup>, total 280 no. plants, to be 2 Litre container grown. Container grown shrubs to be grouped in naturalistic swathes of odd numbered groups of no less than 3 and no greater than 15. Scheme to include plants tolerant to wet conditions and occasional flooding such as, plants selected from the All Ireland Pollinator Scheme: *Achillea spec.*, *Geranium spec.*, *Hemerocallis*, *Rudbeckia fulgida*, *Monarda didyma*, *Stachys chinensis*, *Phlomis spec.*, *Calamintha nepeta*, *Rhamnus cathartica*, *Cornus alba*, *Euphorbia spec.*, *Cornus sanguinea*, *Salvia spec.*, *Stachys byzantina*.

**Pollinator Friendly Shrub and Perennial Planting** - 260m<sup>2</sup> to be planted at approx. 5 plants per metre sq, total 1,300 no. plants, to be 2 Litre container grown. Plants proposed to reach maximum of 800mm. Plants selected from the All Ireland Pollinator Plan: *Anemone*, *Berberis 'darwinii'*, *Echinops Sp.*, *Echinacea purpurea*, *Ground cover roses*, *Hebe 'emerald green'*, *Helenium Sp.*, *Lamium 'maculatum'*, *Lonicera*, *Photinia 'davidiana'*, *Perovskia 'atriplicifolia'*, *Pericaria*, *Rosmarinus officinalis*, *Viburnum tinus*, *Rudbeckia Sp.*, *Nepeta*, *Verbena*, *Salvia Sp.*, *Sedum*, *Skimmia 'japonica'*, *Sarcococca 'hookeriana'*, *Spirea 'japonica'*, *Stacys 'byzantina'*, *Geranium*.

**Woodland Edge and Native Shrub Planting** - 448m<sup>2</sup> to be planted at approx 1 per square meter, to be planted into existing situation 448 no. plants

Name	Quality	%	No.
<i>Cornus sanguinea</i>	90-120 1+1	5	22
<i>Cornus alba</i>	90-120 1+1	5	22
<i>Buddleja globosa</i>	3lt at 3 per m2	5	22
<i>Prunus spinosa</i>	60-90 2+0	5	22
<i>Eunonymus europaeus</i>	60-90 2+0	15	68
<i>Sambucus nigra</i>	90-120 1+1	15	68
<i>Sorbus aucuparia</i>	90-120 1+1	15	68
<i>Viburnum opulus</i>	60-90 2+0	15	68
<i>Rosmarinus officinalis</i>	3lt	5	22

**Tree Planting** - as per locations shown (total amount 62no.) Semi-Matures, rootballed, 3-4 times transplanted:

Code	Name	Common Name	Quality	No.
Ah	<i>Aesculus hippocastanum</i>	Horse Chestnut	18-20 cm girth	6
Pa	<i>Prunus avium</i>	Sweet Cherry	18-20 cm girth	21
Ac	<i>Acer campestre</i>	Field Maple	16-18cm girth	9
Pp	<i>Prunus padus</i>	Bird Cherry	16-18cm girth	9
Ca	<i>Corylus avellana</i>	Hazel	14-16cm girth	5
Sa	<i>Sorbus aucuparia</i>	Rowan	14-16cm	6
Ug	<i>Ulmus 'New Horizon'</i>	Resilient Elm	16-18cm girth	6

**Native Wildflower Meadow** - (2167m<sup>2</sup>) Turning of existing sod to promote the seeding of already present species, no new seed mixture to be. (if establishment falters an ecologist is to suggest an approach). Cuttings to be removed off-site to allow for natural colonization of meadow.

**Wildflower lawn** - (377m<sup>2</sup>) Short Cut Wildflower Lawn (e.g DW01 by wildflowers.ie, to be locally sourced).

**Grass Bio Swale** - (347m<sup>2</sup>) Grass Bio Swale, to be graded and have a filter drain as per engineers drawings. Short Cut Wildflower Lawn, to be locally sourced and to only include location appropriate species and approach).

### Planting Programme

Trees and hedges to be planted during the first dormant season (September through to March or when rootballed stock becomes available for sale) after practical completion issued for each phase of work. Shrubs to be planted during the nearest spring or Autumn planting season for practical completion.

Any scrub or hedge removal to take place outside bird nesting season (1 March to 31 August)

Issue no.	Description	Date	Sign	Chk'd

Client: **Cork County Council**  
 Project: **Residential Development Millstreet, Cork.**

Drq Title: **Landscape Plan**  
 Stage: **Planning**

Drq. No.: **P608-202**  
 Scale: **1:300 @ A1**  
 Date: **4th March 2024**  
 Drawn By: **RVS** Checked by: **DR**

**DRLA**  
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1. Example of Timber Seating



2. Example Nature and Informal play.



3. Example of Grass Swale along Roadside.



4. Example of Raingarden Bio Swale.



**Seat Specifications**

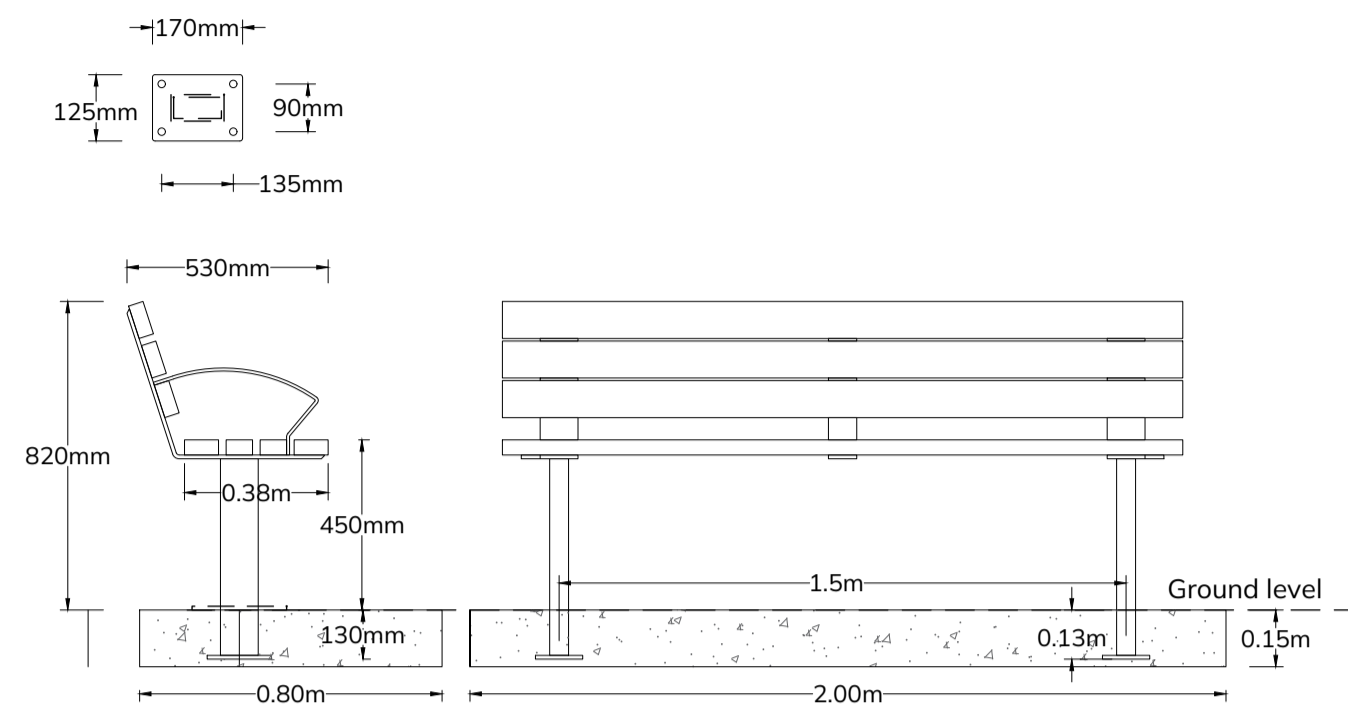
- Powder coated galvanised steel & timber seat with back support and arm rests
- Timber slats are 70 x 40mm and 90 x 40mm
- Width - 360mm
- Seating height - 460mm above ground level

**Fitting**

Root fixed supports, fitted with a stainless steel base plate 130mm below ground level with 4 fixing points to each support

**Concrete foundations**

Recommended concrete foundation 2000 x 800 x 150 mm



Seating in paved areas  
Scale 1:20 @A1

**Specifications**

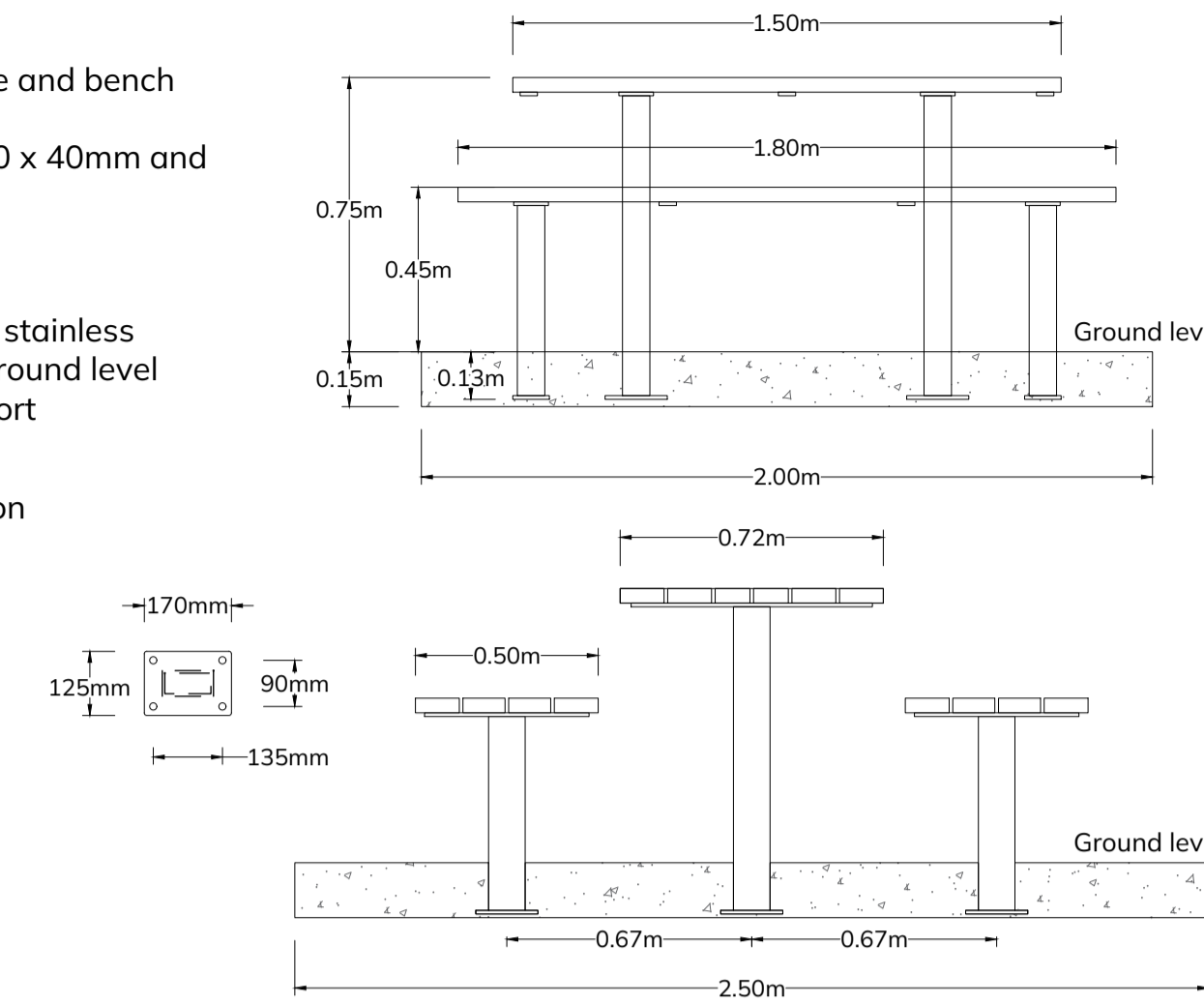
- Stainless steel & timber table and bench picnic set
- Timber slats on bench are 70 x 40mm and 140 x 40mm on table
- Polyester powder coat finish.

**Fitting**

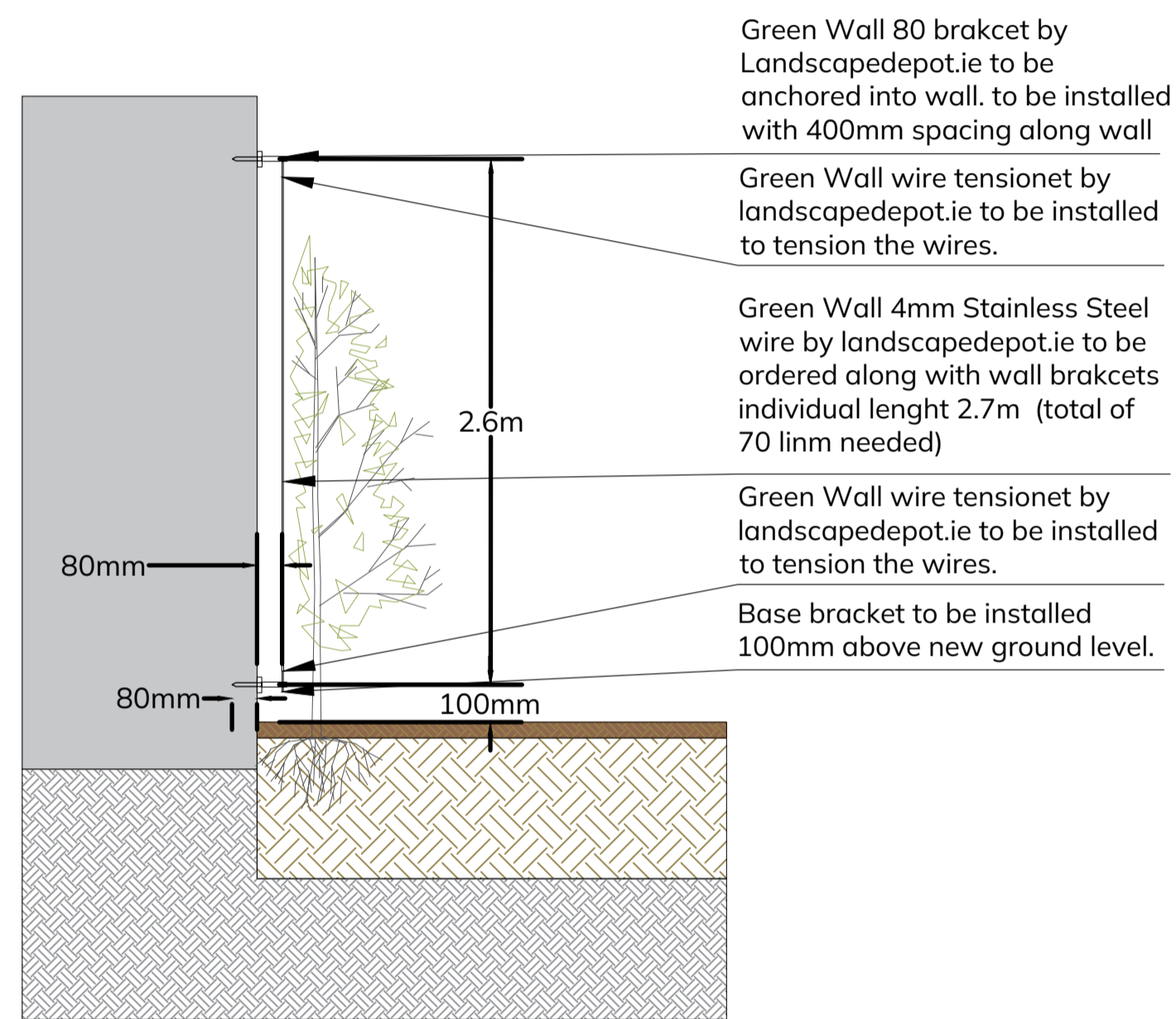
Root fixed supports, fitted with a stainless steel base plate 130mm below ground level with 4 fixing points to each support

**Concrete foundations**

Recommended concrete foundation 2500 x 2000 x 150 mm



Picnic Bench  
Scale 1:20 @A1



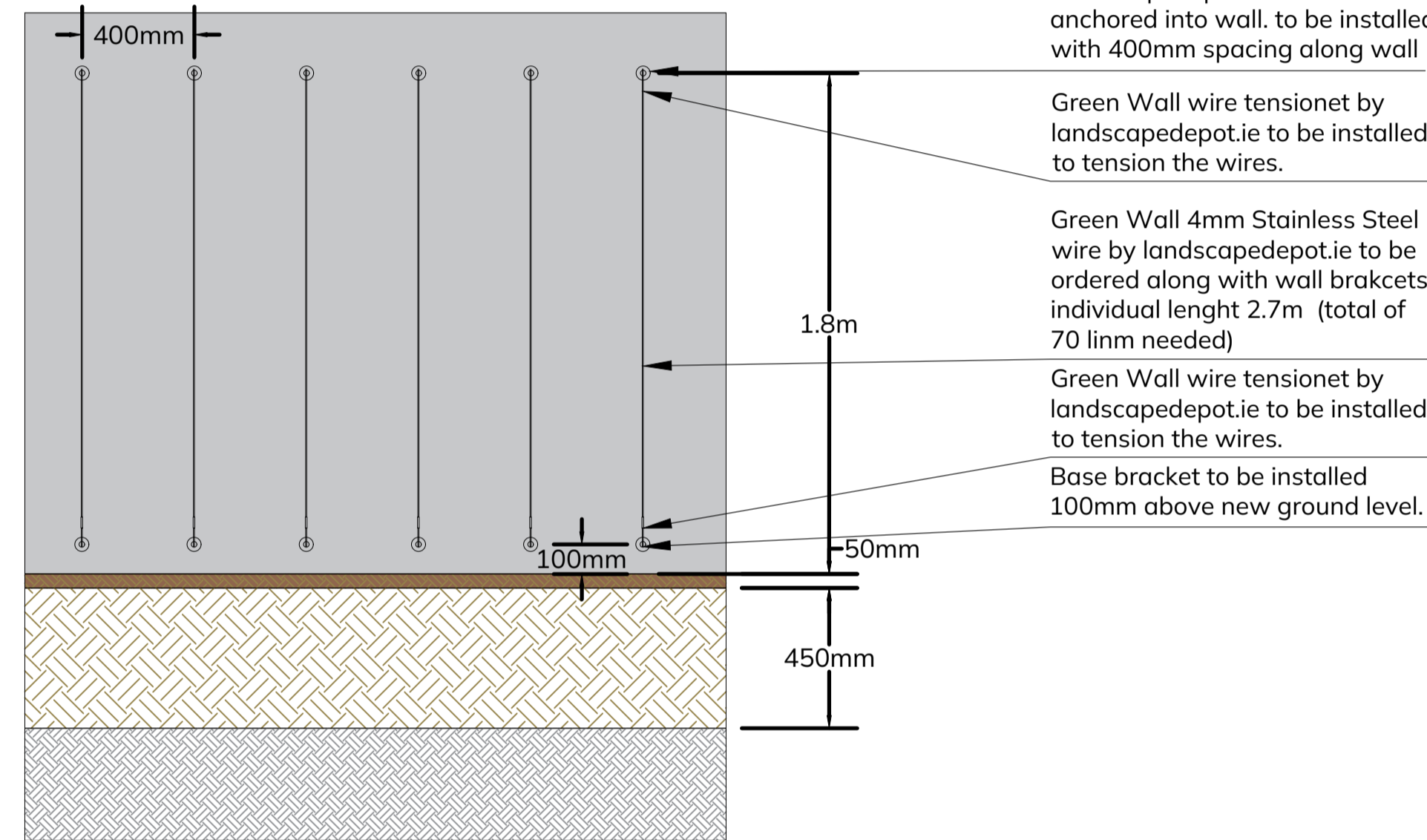
Green Wall 80 bracket by Landscapedepot.ie to be anchored into wall, to be installed with 400mm spacing along wall

Green Wall wire tensioner by landscapedepot.ie to be installed to tension the wires.

Green Wall 4mm Stainless Steel wire by landscapedepot.ie to be ordered along with wall brackets individual length 2.7m (total of 70 linm needed)

Green Wall wire tensioner by landscapedepot.ie to be installed to tension the wires.

Base bracket to be installed 100mm above new ground level.



Green Wall 80 bracket by Landscapedepot.ie to be anchored into wall, to be installed with 400mm spacing along wall

Green Wall wire tensioner by landscapedepot.ie to be installed to tension the wires.

Green Wall 4mm Stainless Steel wire by landscapedepot.ie to be ordered along with wall brackets individual length 2.7m (total of 70 linm needed)

Green Wall wire tensioner by landscapedepot.ie to be installed to tension the wires.

Base bracket to be installed 100mm above new ground level.

**N.B:**

- Feature stone boulder; approx size 650mm x 700mm.
- Placed in situ 600mm maximum height from the surrounding surface.  $\frac{1}{3}$  of boulder to be buried beneath surrounding finished surface, in a bed of sand on compacted base.

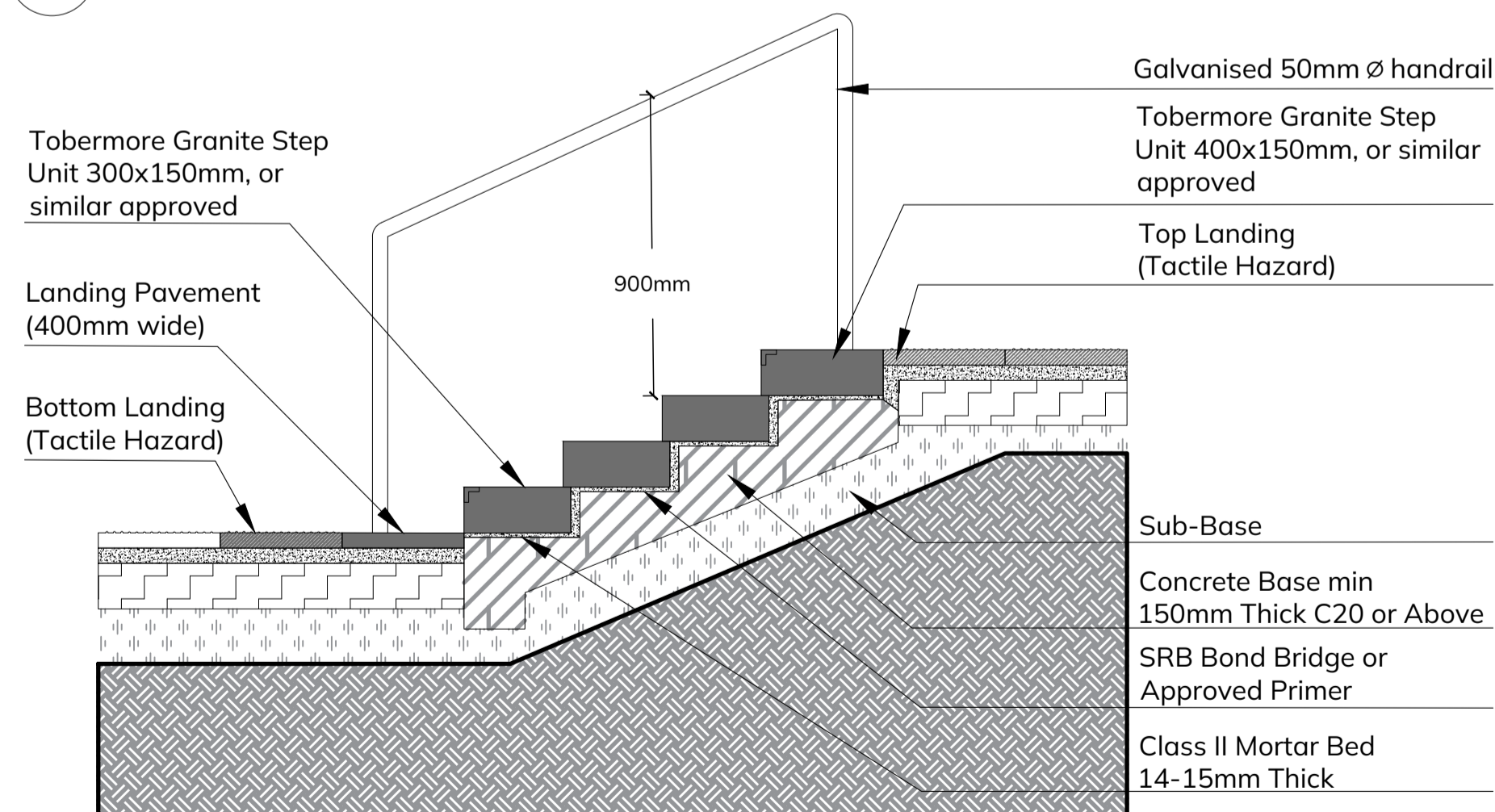
**N.B:**

- Douglas fir (sustainably sourced), approx size 500mm x 3000mm long. Placed in situ 500mm height from the surrounding surface.  $\frac{1}{3}$  of log to be buried beneath surrounding finished surface.
- Natural finish of timber to with gentle bumps and hollows to be preserved.
- All surfaces to be oiled with clear oil. Douglas Fir Natural finish log, all bark removed and lightly sanded.

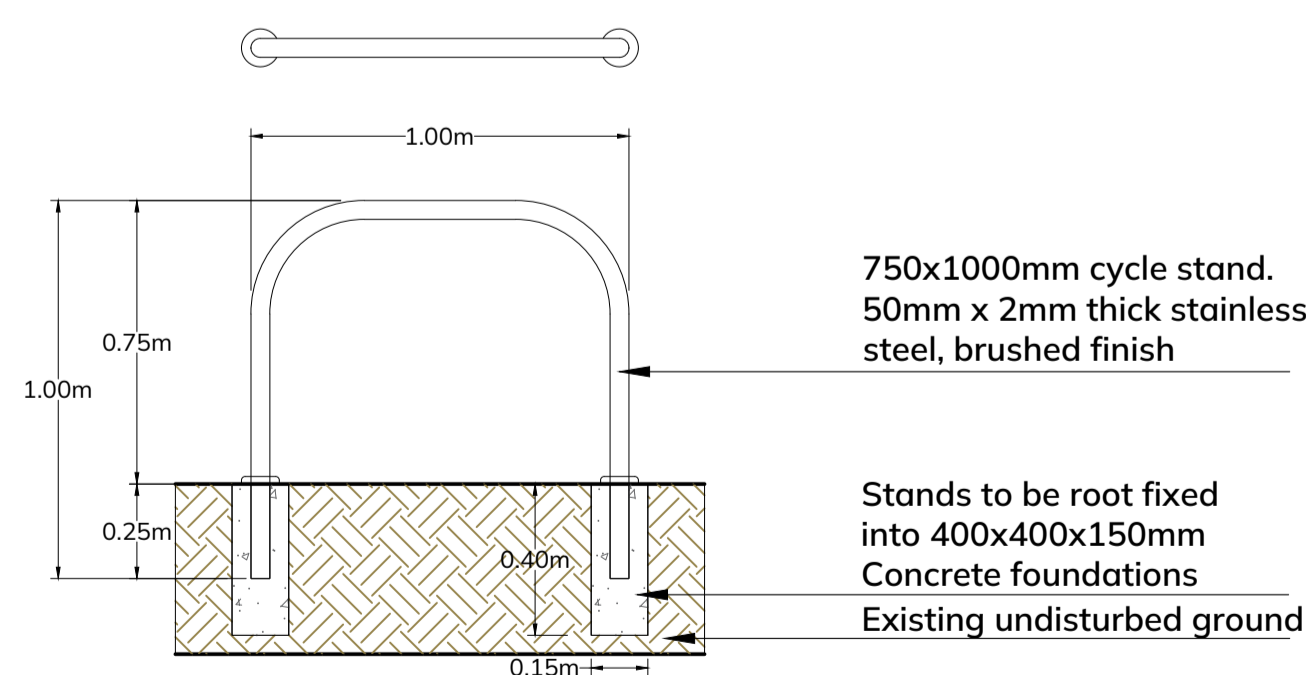


Nature play Log and Stone Boulder  
Scale 1:20 (A1)

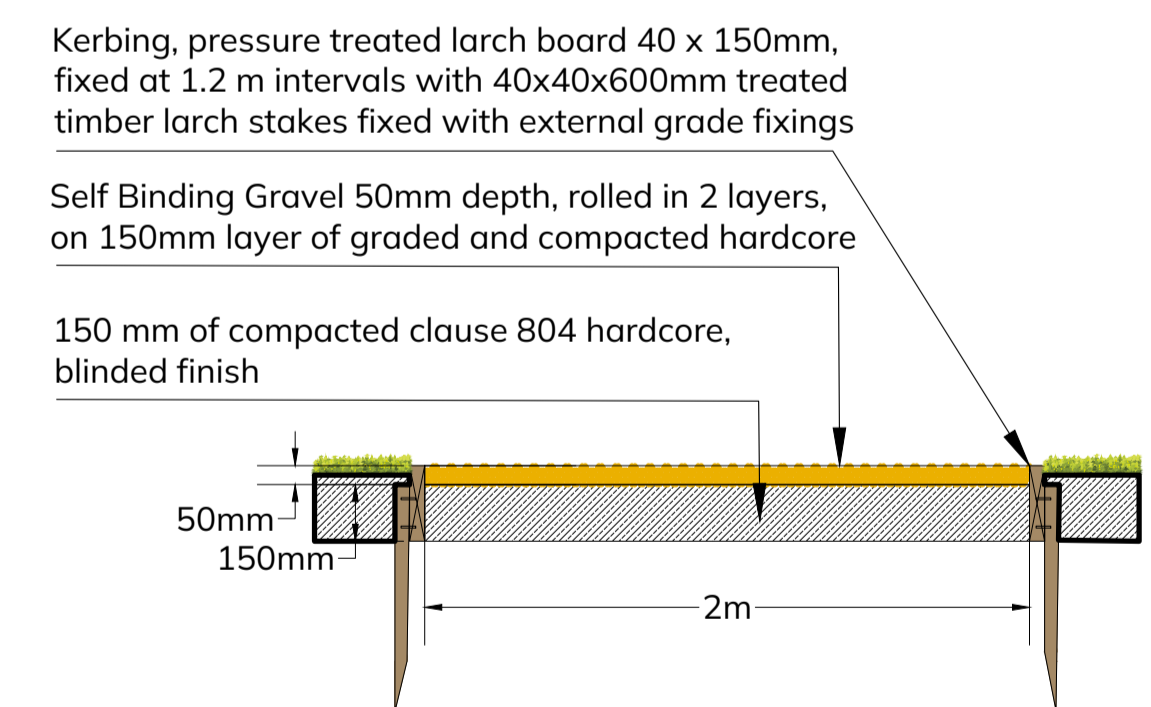
Climbers against concrete block wall  
Scale 1:20 (A1)



Concrete steps with handrail and safety strips  
Scale 1:20 (A1)



Bicycle Parking stand  
Scale 1:20 (A1)



Fine Self Binding Gravel Path  
Scale 1:20 (A1)

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Client: Cork County Council  
Project: Residential Development Millstreet, Cork.

Drg Title: Details Sheet 1 of 2  
Stage: Planning

Drg. No.: P608-203  
Scale: 1:20 @ A1  
Date: 15th February 2024  
Drawn By: RVS Checked by: DR

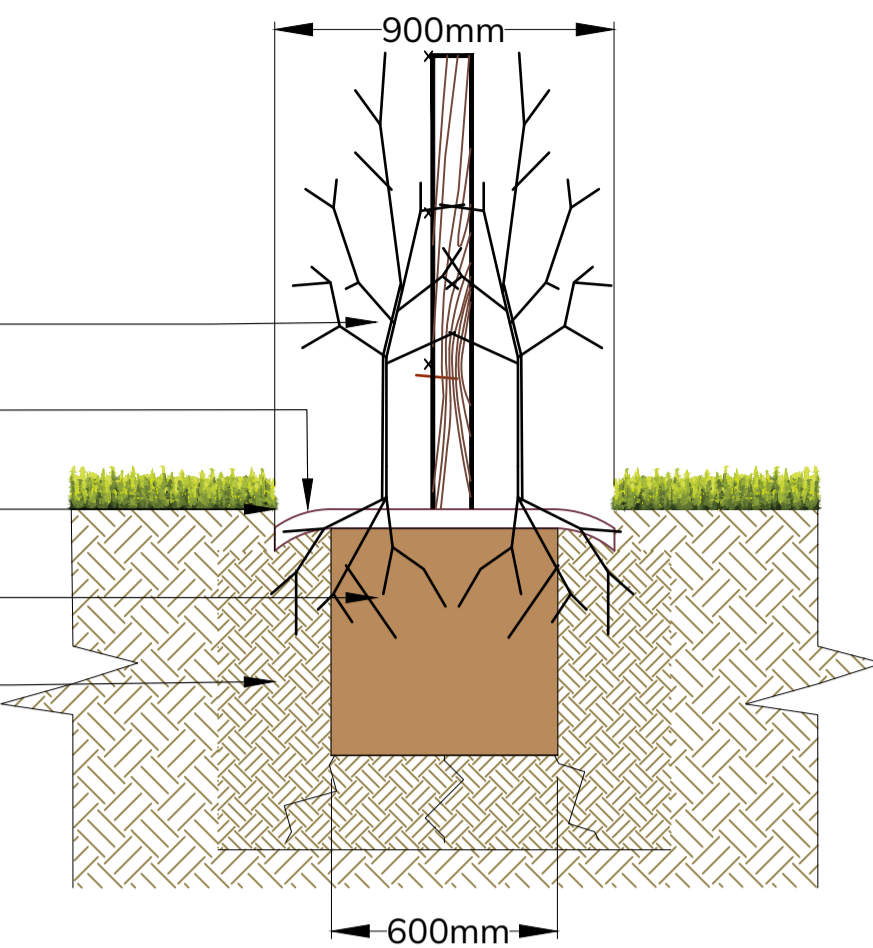
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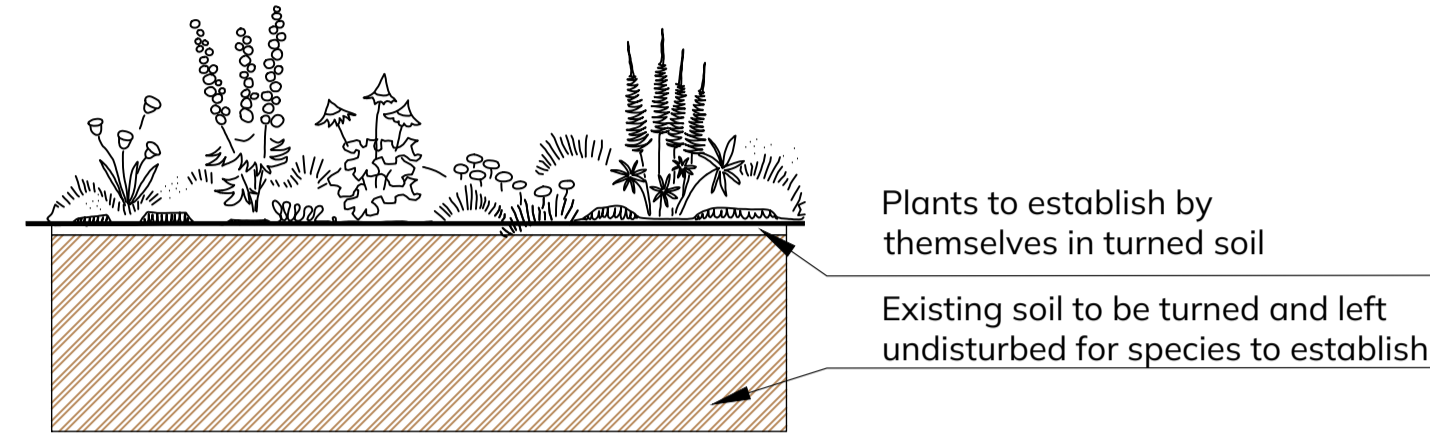


Double row of 0.9-1.2m b/r transplants planted at 300mm c-c spacings  
 50mm sterilised fine grade bark mulch eg. Fine Bark by www.mulch.ie  
 Edge to be cut with mechanical edging machine or similar to achieve a 5 cm deep straight line  
 600mm depth of quality topsoil to BS:3882 standard  
 Fork over base and sides before topsoil or decompact ground to 300mm where required



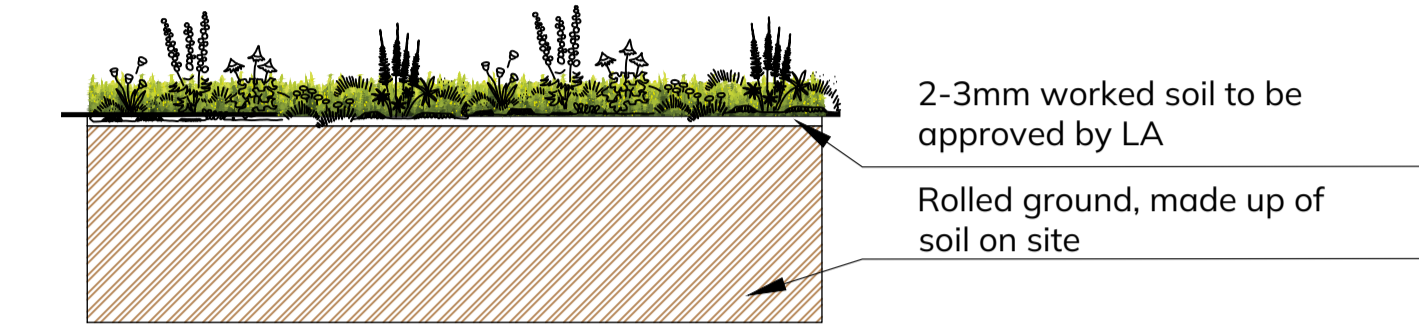
Hedge Planting - Double Row  
 Scale 1:20 (A1)

The Meadow is to be established by turning the soil, once turned allow the soil to be undisturbed. Species will start to show and growth the first year will be uneven. Allow for species to flower and drop seed and only then the meadow can be mown for the first time. This meadow is to be established by mowing less as per the All Ireland Pollinator Scheme. If there is an obvious lack of flowering species after 3 years an ecologist would be able to advise on bringing in local flowering species and the method to do so.



Native Wildflower Meadow  
 Scale 1:20 (A1)

Site preparation should aim for a totally weed free start, if the soil contains weeds a 'hort' or paper layer covered with 5cm of enriched coarse sand will do to smother normal weeds. Sand can also be incorporated into some areas of the soil to increase drainage, in other areas, dampness can be encouraged for other species. Lime may be added, please check with DBN. The aim is to create well drained conditions as per a normal lawn, and it must be weed free. Sow other low maintenance species such as Dwarf Bulbs and low growing perennials which are ideal for introducing into the short cut lawn, as well as our plants from our wider range. Once sown, after the first years annual flowers, keep the meadow cut every 4 to 6 to 8 weeks depending on how fertile your soil. Proposed to be locally sourced only.



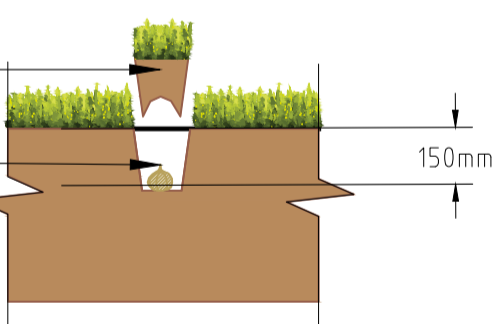
Native Floral Lawn (E.g DW01 by wildflowers.ie)  
 Scale 1:20 (A1)

Shrub and perennial planting, see drawing no. 516-102 for plant list  
 50mm sterilised fine grade bark mulch eg. Fine Bark by www.mulch.ie  
 450mm high quality topsoil to BS3882:2015 standard. To be inspected by Landscape Architect prior to delivery to site. Delivery dockets to be supplied and approved by LA.  
 Existing soil on site to be leveled and decompacted to a depth of 300mm. Soil to be approved by LA prior to use. Decompaction using fork or mechanical means.

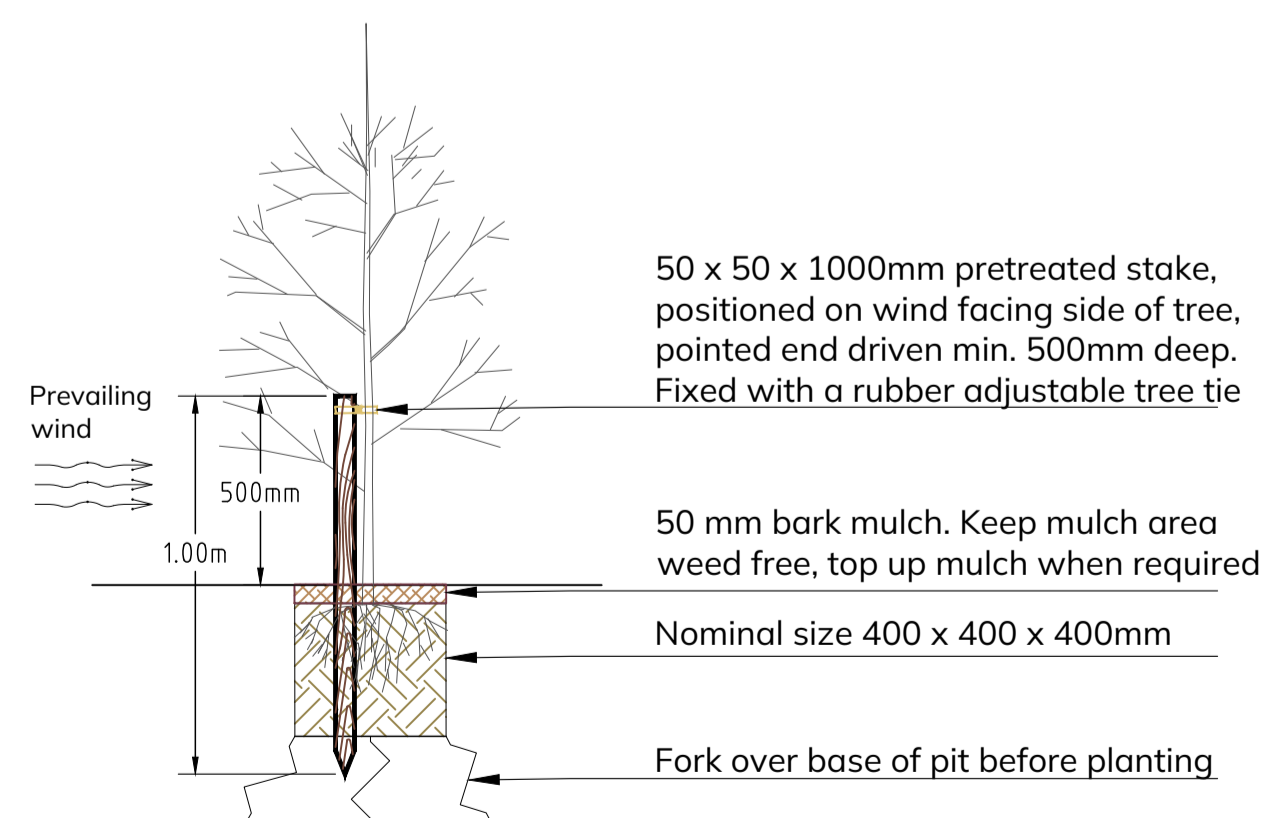


Shrub and Perennial Planting with Bark Mulch  
 Scale 1:20 (A1)

Excavate the planting hole and position same material afterwards on top of the bulb.  
 Plant bulbs 150mm deep



Bulb Planting within Meadow  
 Scale 1:20 @A1

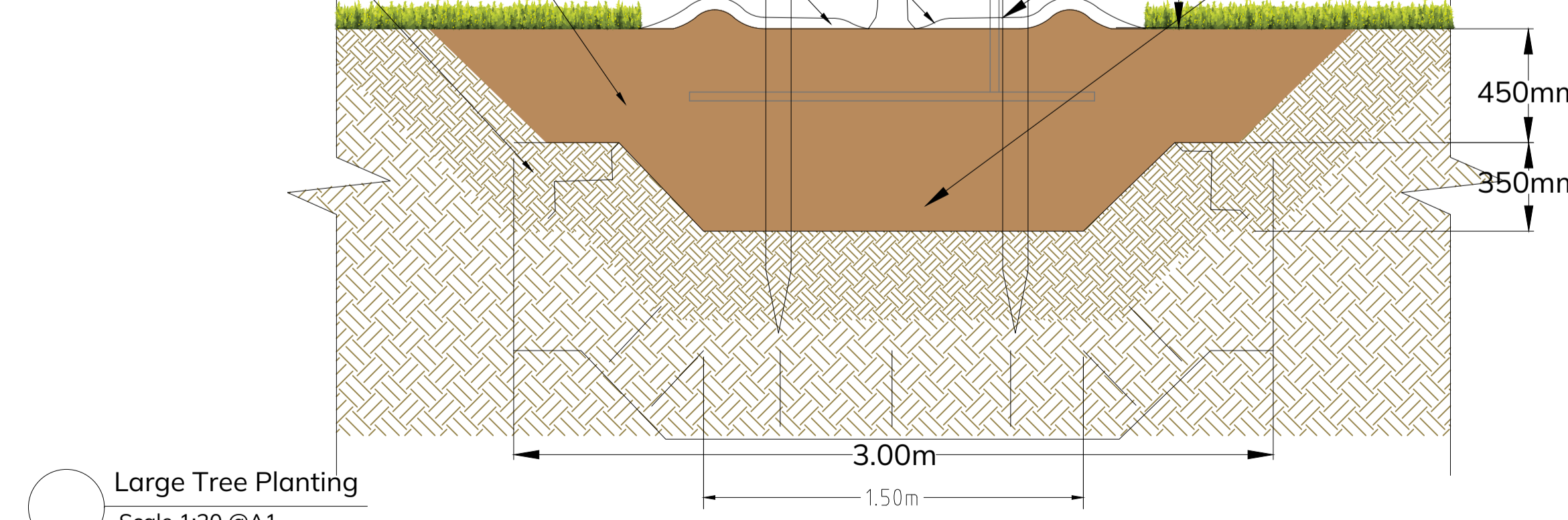


Transplants, Whips and feathered tree planting  
 Scale 1:20 (A1)

Create basin effect around tree with backfill for easy watering ~75mm high  
 50 mm fine grade bark mulch. Keep mulch area weed free for minimum 3 years, top up mulch when required

Backfill with 450mm high quality topsoil to BS3882:2015 standard. To be inspected by Landscape Architect prior to delivery to site. Delivery dockets to be supplied and approved by LA. Mix in well composted manure (20%) or slow release fertiliser tablets (see manufacturers instructions)

Existing soil on site to be leveled and decompacted to a depth of 300mm. Decompaction using fork or mechanical means.



Large Tree Planting  
 Scale 1:20 @A1

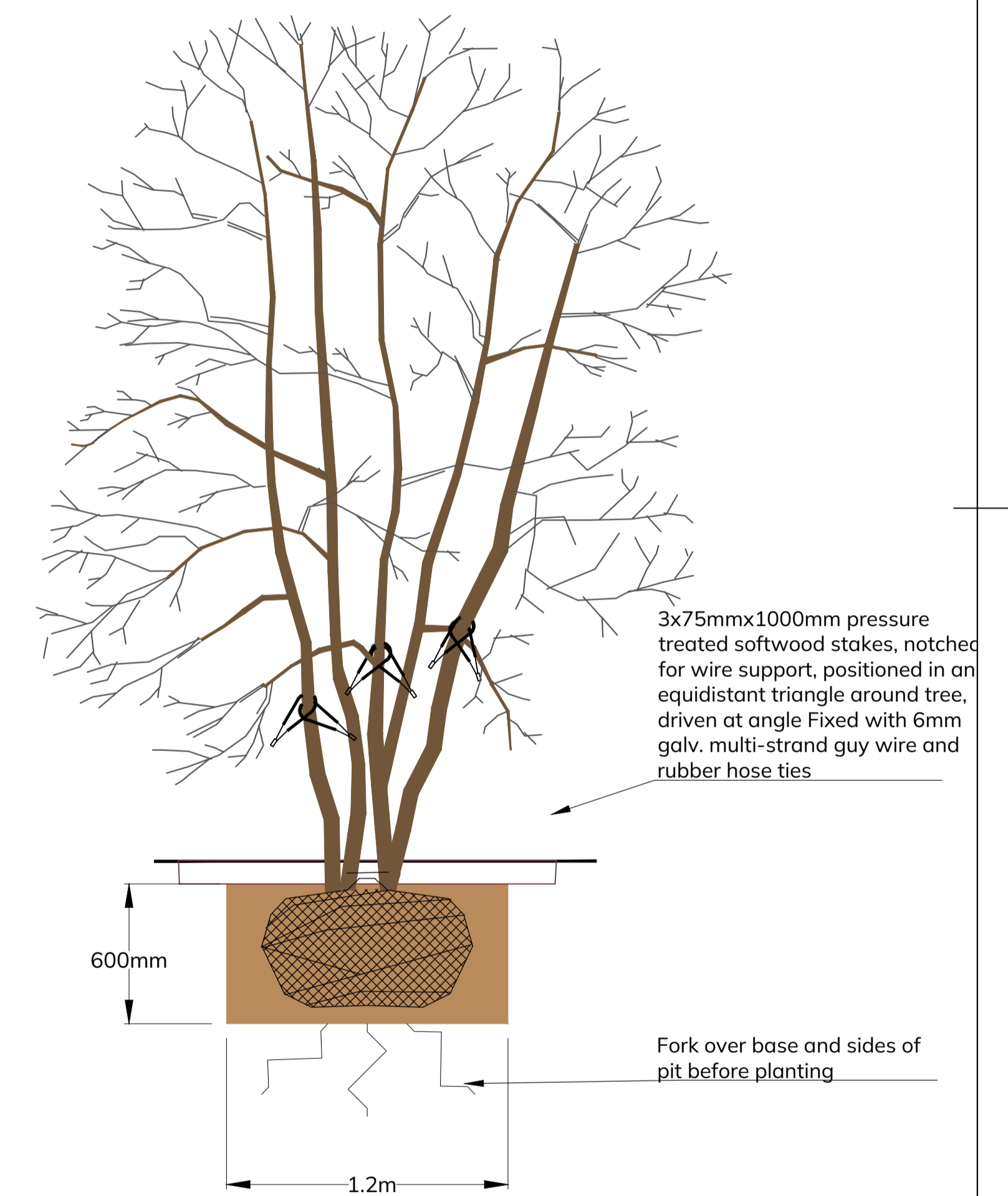
Remove enough whole branches (not all end tips) to reduce foliage by 1/3. Do not remove main stem leader.

2no. softwood tree stakes 100mm diameter. 2.4m length, pointed tip. 50x100mm cross member with proprietary tree tie belt and pad.

750mm biodegradable spiral tree guard.

RootRain Metro Irrigation system by Greenleaf or similar approved.

RHS Empathy Root grow Professional Mycorrhizal Fungi to base of tree pit at planting. Ensure contact with tree roots.



Multi-stemmed tree planting detail  
 Scale 1:20 @A1

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Client: Cork County Council  
 Project: Residential Development Millstreet, Cork.

Drg Title: Details Sheet 2 of 2  
 Stage: Planning

Drg. No.: P608-204  
 Scale: 1:20 @ A1  
 Date: 15th February 2024  
 Drawn By: RVS Checked by: DR



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