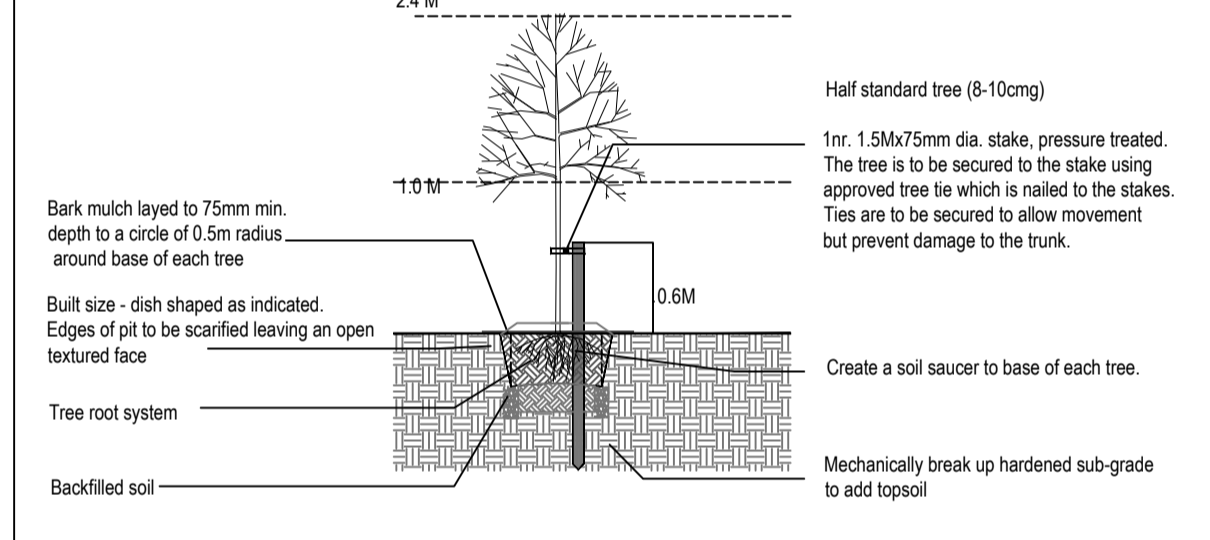


Appendix IX - 110kV  
substation and  
underground grid  
connection Landscaping Plan -  
prepared by Cathal O' Meara  
Architects



**Detail of Tree planting**  
Section Scale 1:50



- TREE PLANTING NOTES:**
1. Selected standard trees shall have a total height of 2.4m and a girth of 8-10cm at 1m above ground level and shall be planted at indicated locations as per landscape layout.
  2. Excavate tree pits to 0.3 cubic metres (0.75 dia x 0.5M deep). Break up the base of the pit to a depth of 150mm and roughen glazed sides.
  3. Position the tree, centred in the planting pit and in an upright position.
  4. Set 1.5m pressure treated stake (1.5M x 75MM dia.) vertically in the pit and drive in to 0.9M below ground, 0.6M above ground.
  5. Backfill the planting pit with topsoil material. Mix the topsoil with compost and mycorrhizal root-rip.
  6. Firm the backfilled material to ensure there is good contact between the plant roots and the soil substrate.
  7. Trees shall be planted at the same depth as the nursery, plant as indicated by the soil mark on the stem of the tree.
  8. Fit rabbit guard.
  9. Fit tree tie. Tree ties shall be of rubber, P.v.c or biodegradable fabric composition and shall be secured to the stake using galvanised nails. Secure tree ties to allow movement but prevent damage to the tree trunk. Remove tree ties after one full growing season or when tree is firmly established.
  10. Mulch the base of the tree to a depth of 75mm at a 0.5M radius around each tree.

**LANDSCAPE KEY:**

- Site boundary
- Proposed new native staggered hedgerow, Planting density at 5 plant per linear metre.  
Species as follows:  
*Crataegus monogyna* 45%, 800-1000mm high, Bareroot, feathered  
*Prunus spinosa* 25%, 800-1000mm high, Bareroot, feathered  
*Salix caprea* 20%, 800-1000mm high Bareroot, feathered  
*Sambucus nigra* 10%, 3L pot
- Access tracks
- Proposed retaining wall
- Proposed native woodland species, 1 plant per 1.5m<sup>2</sup>  
*Pinus sylvestris* 20%, 10-12cm, 3m tall, RB  
*Quercus robur* 20%, 8-10cm, 2-4m tall, BF  
*Betula pubescens* 20%, 10-12cm, 3m tall, RB  
*Alnus glutinosa* 20%, 10-12cm, 3m tall, RB  
*Cornus sanguinea* 10% 8-10cm, 2-4m tall, BF  
*Ilex aquifolium* 10%, 5L pot  
Understorey screen, 50% *Hedera helix*, 50% *Crataegus monogyna*, 2+2 @ rate of 1 plant per 2 m<sup>2</sup>.
- BAB
- BB
- Timber post and rail fence, see detail

**Planting abbreviations**  
T - Transplants, cmh - height in cms, cmg - girth at 1m height BR - Bareroot, Rb - Rootballed, F - Feathered

**NOTES:**

- All works to existing trees and hedgerows shall be carried out only outside bird nesting season (1st of March to the 31st of August).
- All existing trees to be retained shall have a heras fencing erected around base of dripline during construction works. No interference within dripline except those described.
- No hardworks or deposit of any materials to be carried out within or close to the river area
- Site boundary to comprise 2.5m high deer fencing (2.8m high intermediate post every 2.9m) with 2.8m high security cameras spaced approximately every 35m and facing into the site only. There will be a 250mm gap at the bottom of the boundary fence between the posts for the safe passage of small mammals like foxes and badgers into and out of the site.

**PLANTING SPECIFICATION NOTES**  
For Proposed Trees implementation and maintenance.

**Site preparation:** Imported Topsoil shall be to BS 3882: 2007: Specification for topsoil and requirements for use, and be of medium texture with a high proportion of loamy material. It shall be free from subsoil, rubbish, roots of perennial weeds and other injurious to plant growth. All topsoil shall be stacked in heaps, not exceeding 2m high. During storage, topsoil heaps shall be kept free from contamination, compaction and weeds. Imported topsoil shall be from an approved source and a sample submitted and analyzed/tested at an independent approved laboratory. Soil Handling: Soil handling shall only take place during the driest parts of the year to prevent compaction of the insitu soils. The formation levels shall be as follows: Tree pits: 2000mm x 2000mm x 1000mm deep; bottom of pit broken up to a depth of 150-200mm and scarify sides.

**Backfilling with Topsoil:** Tree pits shall be backfilled, in layers, with topsoil thoroughly mixed with planting organic compost. All finished levels shall be 25mm above adjacent paving.

**PLANTING**  
Plant Stock and Timing: Plant material shall conform to BS 3936 Part 1: 1992, Part 2: 1990, Part 9: 1998, Part 10: 1990 and BS4043: 1989 and shall be protected at all times in transit to the site. The planting season shall be from 1st October to the 31st March. Planting shall not be carried out during periods of frost, drought, cold drying winds, or when the soil is waterlogged.

The planting shall be carried out following practical completion of the building and hard landscaping. Planting outside the planting season will require adequate watering to ensure establishment.

**Planting:** All tree planting shall be planted upright at the same depth as the nursery soil level and evenly spaced, leaving room for growth. Allow at least 300mm clearance between the rootball and the edge of the pit to facilitate staking/anchoring and to allow adequate amount of backfill around the root ball. Trees in soft landscape shall be staked and braced with a cross member.

**IMPLEMENTATION**  
-Deciduous trees and shrubs - Late October to late March

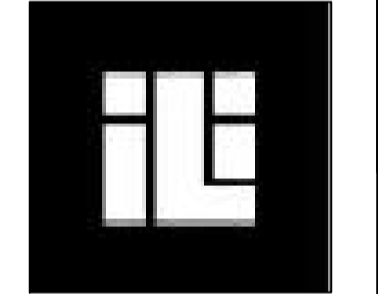
**AFTER CARE PERIOD**  
Maintenance: The Aftercare Period shall extend for an 18 month period. During the Aftercare Period maintenance visits shall be carried out, at least monthly from April to September and twice during the dormant season to carry out the following operations to establish healthy growing plants in weed free areas. Maintenance operations shall include: watering, firming-up, pest and disease control, grass cutting, general pruning, weed control, top up mulch and autumn tidying. Replacement Planting: All plants, which have died, are missing or have failed to thrive, shall be noted and replaced with the same size and species as originally planted, in the following planting season.

**GENERAL**  
-Adverse Weather General: Do not use frozen materials or lay on frozen surfaces.

**THIS IS NOT FOR CONSTRUCTION**

This drawing is the copyright of the Landscape Architect unless otherwise stated. All dimensions are in millimeters. Where dimensions are not given, drawings must not be scaled and the matter must be referred to the Landscape Architect. If the drawing includes conflicting details/dimensions the matter must be referred to the Landscape Architect. All dimensions must be checked on site. The Landscape Architect must be informed by the contractor, of any discrepancies before work proceeds.

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Chartered member of the Irish Landscape Institute

**Client:**  
Kilmannock Battery Storage Ltd

**Project:**  
Kilmannock 110kV Substation, and Grid Connection

**Drawing:** Landscape Layout

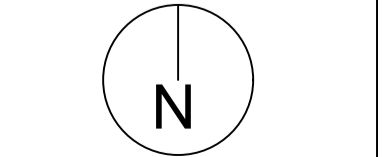
**Date:** 14/12/2023

**Drawn By:**  
Luis Medeiros

**Checked By:**  
Cathal O'Meara

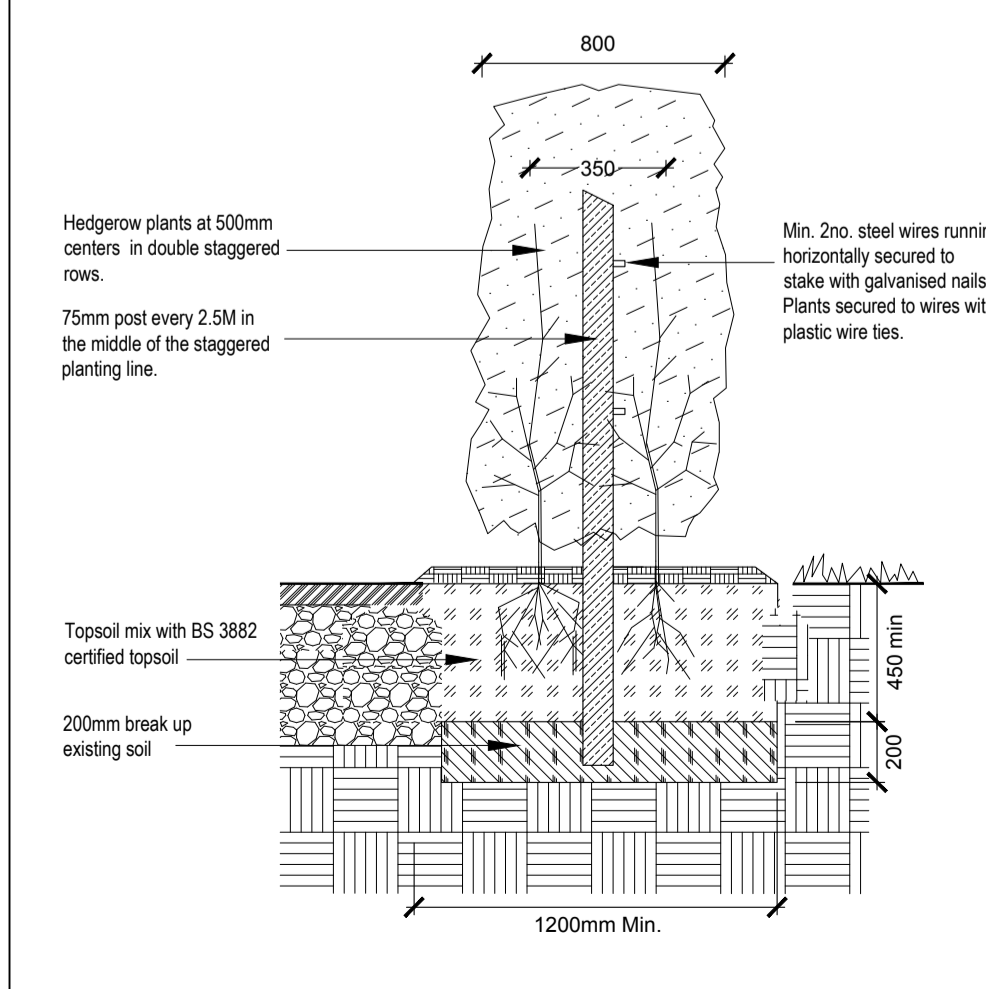
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**Dwg No:** 2325\_LA001\_ Rev02

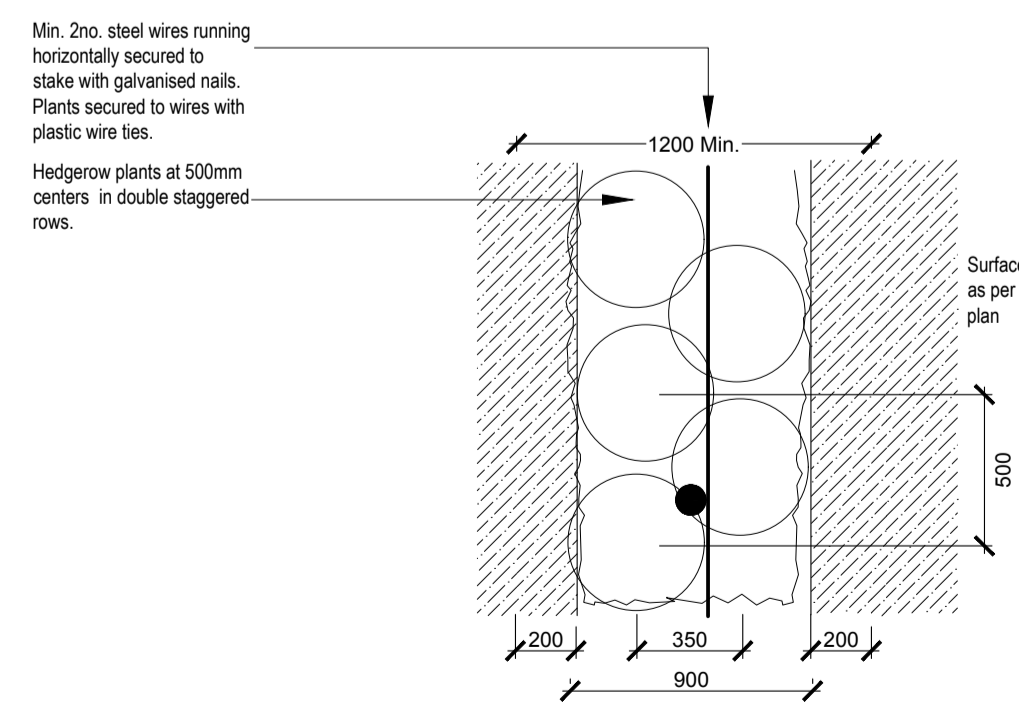


Scale 1:1250, @ A1

**Detail of Staggered Hedge planting**  
Section Scale 1:25



**Plan of Staggered Hedge planting**  
Scale 1:25



**Notes:**  
Where available site excavated stored topsoil to be mixed with on site with PAS 100 compost, 5% mix. Prepare the plants by Pruning back any damaged roots to healthy growth, placing roots of waiting plants in water whilst planting, applying an approved mycorrhizal root-rip. After placing the plants in the trench backfill the trench to half its depth and firm by treading. Once planting is complete backfill with the remaining soil and firm as before. Top dress the planting area with 50mm of bark mulch. Total pit width to vary from 850mm min to 1200mm max, pit size to vary depending on location and engineering constraints.