

LOW-CANOPY WOODLAND PLANTING MIX:

Botanical name	Common name	Size	%
<i>Low Canopy (Sub-dominants):</i>			
<i>Alnus glutinosa</i>	Alder	Feathered Trees, 250-300cm, bare root	30-40%
<i>Betula pubescens</i>	Downy Birch	Feathered Trees, 250-300cm, bare root	
<i>Betula pendula</i>	Silver Birch	Feathered Trees, 250-300cm, bare root	
<i>Prunus avium</i>	Wild Cherry	1+1tr, 90-120cm, bare root	
<i>Understorey and fringe (higher shrubs):</i>			
<i>Prunus Padus</i>	Crab Apple	1+1tr 90-120cm	30-40%
<i>Corylus avellana</i>	Hazel	1+1tr 90-120cm	
<i>Crataegus monogyna</i>	Hawthorn	1+1tr 90-120cm	
<i>Understorey and edge (lower shrubs):</i>			
<i>Prunus spinosa</i>	Blackthorn	1+1tr 40-60cm	15-25%
<i>Rosa-canina</i>	Dog-rose	1+1tr 40-60cm	
<i>Euonymus europaeus</i>	Spindle	1+1tr 40-60cm	



NOTES:

The function of the proposed mitigation planting is primarily for screening, but it will also enhance the ecological corridors that are already present within the hedgerows.

Mitigation screen planting shall consist of a mixture of native hedgerow species that are prevalent in the immediate area. Planting to consist of feathered whips (of various sizes) in staggered rows at a spacing of 600mm.

'Under-planting' to consist of a single row of whips to the development side of existing tree lines and hedgerows.

'Inter-planting' to consist of whips at 600mm centres to fill gaps in existing tree lines and hedgerows.

New sections of hedgerow to consist of a triple staggered row of whips and advanced nursery stock at 600mm spacing.

All native species will be planted as whips, with the primary and secondary structure species to be of a minimum height of 80-100cm and the other shrubs species to be of a minimum height of 40-60cm.

Proposed mitigation screen planting to be planted as per figure LMP1.1 - 1.2 and maintained at a height of approximately 3m unless otherwise specified. Hedgerow type 1 to be planted as necessary for gap filling and bolstering.

Proposed mitigation to be planted in the first growing season prior to commencement of development. Hedgerows should reach full establishment (c.3 meters) within 2-3 years of planting.

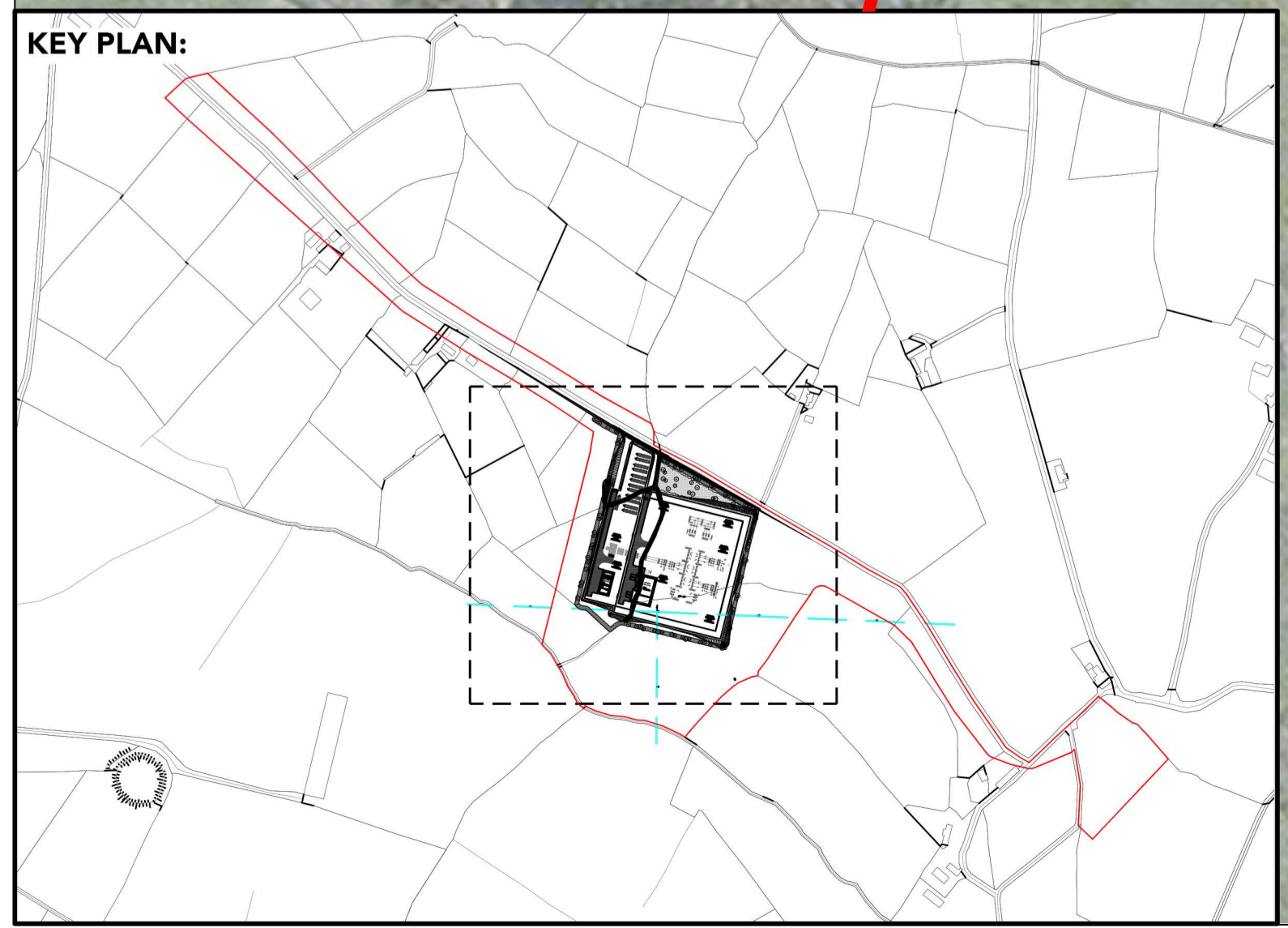
Wildflower / Wild grass seeding of local provenance to occupy any residual space between perimeter fence and nearest line of whip planting.

Species mix to be finalised in conjunction with the project ecologist.

All species will be from certified native stock and preferably from an approved supplier of the *Green, Low-Carbon, Agri Environment Scheme (GLAS)*.

***Advanced nursery stock to be provided as *Crataegus monogyna* (Hawthorn) at 10-12cm girth (c. 3m) bare root standard trees.**

Existing hedgerow to be removed to facilitate the full extent of the proposed sightlines. Hedgerow to be reinstated behind sightlines as per hedgerow type 2.



NATIVE HEDGEROW SPECIES:

Botanical name	Common name	Size	%
<i>Primary structure:</i>			
<i>Crataegus monogyna</i>	Hawthorn	1+2tr 80-100cm / 10-12cm girth 3m br standard trees	60%
<i>Secondary structure:</i>			
<i>Prunus spinosa</i>	Blackthorn	1+2tr 80-100cm	15%
<i>Ilex aquifolium</i>	Holly	1+2tr 80-100cm	15%
<i>Shrub species structure:</i>			
<i>Rubus fruticosus</i>	Bramble	1+1tr 40-60cm	2.5%
<i>Corylus avellana</i>	Hazel	1+1tr 40-60cm	2.5%
<i>Rosa canina</i>	Dog-rose	1+1tr 40-60cm	2.5%
<i>Euonymus europaeus</i>	Spindle	1+1tr 40-60cm	2.5%

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PROJECT: Drumlins Park 110kV Substation, County Monaghan		CLIENT: Galetech Energy Developments LTD.
DRAWING: Landscape Mitigation Plan		SCALE: 1:500
DATE: December 2020	DWN BY: CD	CKD BY: RB
SHEET SIZE: A1 (landscape)		DWG No. LD.DRMLNSBST 1.0