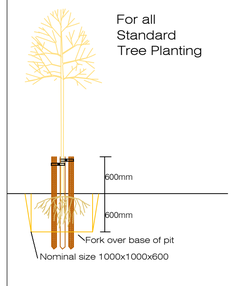
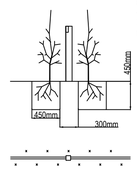
Landscape Masterplan (1:500)

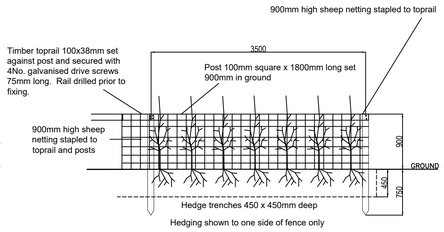
Legend

- Open Space - Amenity Grass
- Wildflower Meadow
- Pollinator Friendly Planting Mix
- Native Shrub Mix
- Bioswale / Rain Garden
- Proposed Street Tree Planting
- Proposed Open Space Tree Planting
- Proposed Front Garden Tree Planting
- Proposed Back Garden Tree Planting
- Existing Trees to be Retained
- Proposed Hedgerow
- Proposed Ivy Planted Wall
- Playground Fence
- Retaining Block Wall, faced with Irish Blue Limestone and with Timber Latts installed for seating
- Localised Contours (200mm)
- Feature Paving: Kilsaran Clima-Pave Mellifont (Rustic colour, 3 sized paviour block) or similar approved
- Feature Paved Area: Irish Blue Limestone paving (600x300mm paving flags bush hammered finish) with Irish Blue Limestone sett edging (100x100mm) or similar approved
- Internal Road Tarmacadum as per architect / engineer specifications
- Concrete Footpath as per architect / engineer specifications
- Paved Driveways as per architect / engineer specifications
- Amenity Grass Area for Ball Games
- River Triogue
- Sculpture of William Dargan
- Natural Stone Sphere, Irish Blue Limestone or similar approved (500mm dia.)
- Site Boundary

Tree & Beech Hedging Planting Detail







1. The hedge planting is to be carried out in a double trench, each dug 450 wide x 450mm deep and 300mm apart on either side ot the fencing, and to the required length.
2. Mix the dug soil with a slow release fertiliser.
3. Break up the soil in the base of the trench(es).
4. Prepare the plants by: pruning back any damaged roots to healthy growth; placing roots of waiting plants in water whilst planting.
5. Place the plants in the trenches to the fence side, as shown in elevation, 3/m and at staggered centres as shown in plan.
6. Backfill the trench to half its depth and firm by treading. Continue planting the trench. Once planted, backfill with the remaining soil and firm as before.
7. For the proposed beech hedging against the north-western boundary, plant in a single row without the fencing.

Planting Details

Native Shrub / Woodland Mix (Total area: 171m²; @ 1.5m c/cs)

Species	Size	%	Qty
Euonymus europaeus	60-90cm B/R	15	10
Frangula alnus	60-90cm B/R	5	15
Ligustrum vulgare	60-90cm B/R	5	10
Viburnum opulus	60-90cm B/R	10	15
Ilex aquifolium	2L C/G	5	25

Tree Mix

Species	Size	Qty
Front Garden Trees		
Amelanchier lamarckii	1.5-1.75m height multistem	20
Crataegus Paul's Scarlett	6-8cm girth B/R	30
Sorbus Joseph Rock	6-8cm girth B/R	37
Back Garden Trees		
Sorbus aucuparia	6-8cm girth B/R	40
Street Trees		
Pyrus Chanticleer	10-12cm girth B/R	67
Betula pendula (Bioswale)	10-12cm girth B/R	28
Open Space Trees		
Quercus robur	6-8cm girth B/R	10
Prunus avium	6-8cm girth B/R	5
Betula pendula	6-8cm girth B/R	20
Sorbus aucuparia	6-8cm girth B/R	10
Pinus sylvestris	1.5-1.75m height	3
Malus sylvestris	6-8cm girth B/R	5
Malus spp.	2 yr, 150-175cm B/R	5

Hedgerow

612no. *Fagus sylvatica* (Beech); 60-90cm size planted @ 3/m (204m length)

Pollinator Planting Mix

Species to be selected from the following list (see below for tree planting details)

Perennials (planted @ 8-10/m²; p9-2L size)
Verbena bonariensis; *Bergenia spp.* (Elephant Ears); *Sedum spectabile* (Ice Plant); *Knautia arvensis* (Field Scabious); *Succisa pratensis* (Devil's-bit Scabious); *Echinops bann. 'Blue Globe'* (Globe Thistle); *Centranthus ruber* (Red Valerian); *Centaurea nigra* (Common Knapweed); *Hosta spp.*; *Mischanthus spp.*; Allium cristophii (Ornamental Onion); Achillea filipendulina 'Cloth of Gold'; Nepeta 'Six Hill Giant'; Myosotidium hortenzia (Chatham Island Forget-Me-Not);*Pulmonaria officinalis* (Lungwort); *Allium ursinum* (Wild Garlic); *Fragaria vesca* (Wild Strawberry)

Shrubs (planted @ 2-4/m²; 2L size)
Hebe spp.; *Lavandula Hidcote* (Lavander); *Rosmarinus officinalis* (Rosemary); *Fuschia spp.*; *Fatsia japonica*; *Potentilla spp.*; *Raspberry varieties*

Ivy Green Wall

150no. *Hedera helix* (Ivy); 2L size planted @ 3/m

Wildflower Meadow Seed Mix

Species mix to be EC03 Woodland from Design By Nature or similar approved. Total Area: 900m².

Bioswale Planting Mix (462m²)

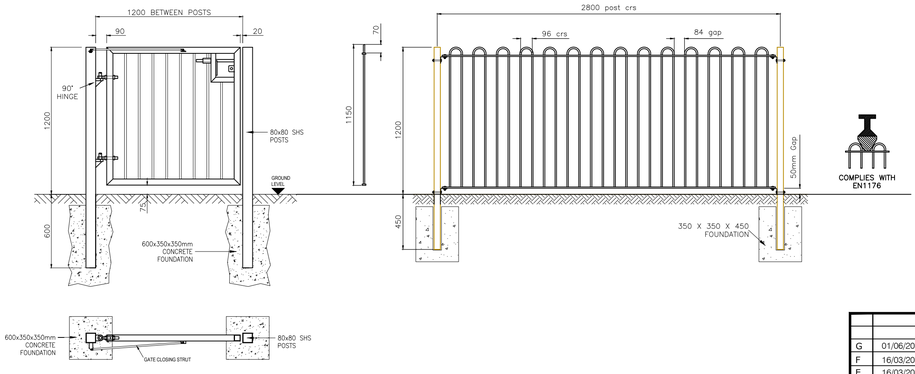
Wildflower mix to be selected from the following plants (plants planted at 9-11/m² @p9 size): *Succisa pratensis*, *Ajuga reptans*, *Campanula glomerata*, *Geranium pratense*, *Deschampsia cespitosa, Hemerocallis spp., Iris siberica, Miscanthus sinensis Zebrinus*

Tree Species; *Betula pendula* (see Tree Mix above).

Planting Notes

All native Irish plants to be sourced from Irish provenance stock only.

Playground Fence & Equipment Details



Playground Railing & Self Closing Gate

Play park railing and gates to be galvanised steel 1.2m high. Railing to be a bow top railing to comply with BS1722 & EN 1176 (black colour) or similar approved.

2no. recessed entrances to play park are provided to provide children with options for exiting the playground (RosPA approved anti-bullying design practice). Each entrance to be fitted with self-closing gates that open outwards. Gates to be a min. width of 1m, and tie in with the bow top railing as above with the following safety features:

- An anti-finger trap gap of 12mm between the self closing gate and the posts. A gate stop, 700mm above the ground level, on the gate with a 12mm rubber stopper to be used. This minimum gap should be maintained throughout the full range of movement of the gate throughout its full arc.
- A clearance of between 60mm and 110mm should be maintained beneath the gate to reduce foot injuries. Ground should be level to prevent this gap closing through the range of movement.
- Gates should not close quicker than 5 seconds for wheelchairs and to prevent striking children using it as it closes.

Playground Equipment Proposed

Birds nest swing, 100cm dia. basket, Kompan KSW90040 (see below, bottom left image) or similar approved.
Equipment to be installed as per manufacturers specifications and to comply with EN1176. Surfacing to be loose fill wood fibre to be non-toxic, of low ignition level, natural colour and of soft texture. Safety surface to comply with EN 1176.

Play Tunnel, 1.5x0.6m tunnel to be installed as per manufacturers specifications and to comply with EN 1176. (See below middle image)

Balance Beam, Kompan single timber balance beam (NRO802-0601FSC) or similar approved, to comply with EN 1176. Equipment to be installed as per manufacturers specifications and to comply with EN1176. (See below bottom right image)

Heritage Features - Cultural & Natural

William Dargan

The plans include a sculpture / monument of William Dargan, one of Ireland's most important railway engineers, who was born in Laois. This would be located within the small plaza area at the entrance to the car park beside the Railway Station.

The plaza will be constructed using Irish Blue Limestone material.

Sculpture / monument: to be 3x~2.5m high Irish Blue Limestone monuments or similar approved, interpreting the life and work of William Dargan. The exact design and detail is to be agreed with Laois County Council and other relevant stakeholders.

Swift Nest Bricks

Install 15no. Swift Nesting Brick Brick Boxes into the tops of selected buildings. Install 1no. swift caller as part of the works.

Brimstone Butterfly

As part of the planting mixes the native buckthorn species is included. This is the larval food plant of the Brimstone butterfly.

Marsh Fritillary Butterfly

As part of the wildflower mixes the wildflower Devil's-bit Scabious is to be included. This is the larval food plant of the Marsh Fritillary.

Bioswale / Rain Garden

The plans include the use of bioswales and rain gardens to treat the water run-off from the main car park. Rain water will be directed to these swales (sunken green verges) where it will be allowed to infiltrate the soil naturally, with any excess water being directed to the storm water drainage system. The plants proposed are all suited to the ground conditions required in a bioswale (free draining soils that are periodically flooded).

These will deliver multiple benefits; 1) reduction in water being sent to storm drains; 2) water run-off which contain pollutants from the cars can be treated naturally by the plants; and 3) the plants have higher biodiversity & aesthetic value than cut grass.

Rev	Date	By	Details
G	01/06/20	BG	Layout changes
F	16/03/20	BG	Graphic detail change
E	16/03/20	BG	Detail changes
D	16/03/20	BG	Layout changes
C	29/02/20	BG	Design changes
B	24/02/20	BG	Detail changes to plans
A	24/02/20	BG	Original concept design

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Client: Ardain Developments

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Drawing title: Landscape Masterplan

Drawn by: BG	Scale: As Shown @ A1
Approved by: BG	Date: February 2020
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