

**TIMESCALE**

- Planting shall be implemented by the end of the first planting season (November to March) after the first use of the proposed building.
- Seeding may be undertaken in advance of planting, to prevent issues of soil erosion. August-September and March-April are the preferred times for seeding.

**SITE PREPARATION: GENERAL**

- Trees shall be planted into loose tipped soil material of minimum depth 400mm. Soil material shall accord with the requirements of Table 1 of *Forestry Research Best Practice Guidance Note 5 Imported Soils or Soil-forming Materials Placement*. Following the spreading of soil material, the bund shall be cultivated to a depth c.300mm to produce an evenly firm, but not overly compacted planting bed. Materials in excess of 150mm diameter shall be removed.

**SEEDING**

- All seeding shall accord with the specification set out on this Drawing

**PLANTING**

- All plant stock shall conform with the specifications set out on this drawing.
- All new planting shall be adequately staked and guarded to protect against vermin damage. Guards shall be Tubes Shrubshelter or similar. All guards to be supported by a high quality stake to suit the height of the tube (typically 32mm x 32mm or 30m mround softwood stake, treated with approved protection)
- All plant material shall consist of healthy stock with well balanced branch structures and well developed fibrous root systems. Planting generally shall accord with CPSE 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part III, paragraphs 6.2 to 6.6.
- Plant handling, storage and transport shall accord with CPSE 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part I, Part II and Part III, paragraphs 1.3.3 to 1.3.6, 3.0, and 4.0.
- All planting stations to be treated with herbicide two weeks prior to planting.
- All trees shall be notch planted, at the spacings specified on this Drawing, and shall be planted in groups of no more than 2-3 specimens of the same species. Grass shall be cut to ground level prior to planting
- Lightly firm soil around trees and fork and/ or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows. Immediately after planting, water all planting areas thoroughly to field capacity, without damaging or displacing plants or soil.
- No planting shall take place on the area of steep slop indicated on this Drawing

**GRASSLAND MAINTENANCE**

- In the first year after seeding, grass shall be cut in mid/ late summer (e.g. early August).The height of the cut sward shall be 4cm-6cm. This sward height shall be maintained for the remainder of the year by regular cutting. All arisings shall be removed off-site.
- Following the initial establishment cut, subsequent cutting of grassland shall take place 2x annum until the tree canopy has closed. The first cut shall be in late July/ August, after flowering, to height 4cm-6cm. The second cut shall be in either late autumn/ winter, or early spring depending upon sward growth. All arisings shall be removed off-site.
- Grass margins shall be kept tidy through the use of hand tools.
- Should pernicious weeds (e.g. docks, thistles etc.) become established, these shall be spot treated with herbicide or removed by hand. Other solutions that may be considered include an application of a selective herbicide or a more intense but localised mowing regime, depending on species and extent of infestation.

**PLANTING MAINTENANCE**

- Any plants that fail to thrive (unless due to theft or malicious damage after completion) during the period of five years following Practical Completion, will be regarded as defects due to materials or workmanship, and shall be replaced in the next available planting season with equivalent plants to match the original specification.
- All planting shall be maintained weed free to a 600mm diameter area (or 300mm strip either side of hedge plants) until the canopy has sufficiently closed to reduce weed competition (typically 3-5 years). This shall be achieved through the use of an appropriate non-residual non-glyphosate based herbicide, or via hand pulling.
- All planting shall be watered as required.
- Stakes and guards shall be removed from individual specimens when no longer deemed necessary.
- In the fifth year after planting, the woodland areas shall be thinned to remove weaker specimens with a focus on broadleaved species. The need to thin the planting shall be subject to review, and no more than 20% of the planted area shall be thinned.
- Self-seeded specimens shall be allowed to grow on the area of steep slope indicated on this Drawing

**HABITAT CREATION STRUCTURES**

- Hedgehog Boxes, Insect Boxes, and Log Piles shall be installed to the specifications stated on this Drawing.
- These shall be inspected at regular intervals by a suitably experienced Ecologist to determine that the physical conditions of each remain adequate, and to monitor signs of use

| Logpile  |                                                                                                                                                                                                                                      |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Creation | Use different length of logs, all with few/ no twigs. The lower logs to be buried in the soil a few centimetres deep. The rest to be stacked in a table pile and gaps loosely filled with bark/ chippings/ leaf litter               |
| Guidance | NRW guidance note<br><a href="https://cdn.cyfoethnaturiol.cymru/media/691671/information-note-habitat-piles-and-stumperies.pdf">https://cdn.cyfoethnaturiol.cymru/media/691671/information-note-habitat-piles-and-stumperies.pdf</a> |

| Insect Box                                                                          |                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Free standing insect box. Pine wood, bamboo and pine cones are used to create different style habitats to attract a variety of insects                                                                        |
| Siting                                                                              | Sheltered and undisturbed location within woodland planting plot                                                                                                                                              |
| Timing                                                                              | Boxes can be installed at any time of year following the cessation of construction works                                                                                                                      |
| References                                                                          | Example insect box<br><a href="https://www.woodsideproducts.co.uk/98368-woodsides-standing-wooden-insect-hotel.html">https://www.woodsideproducts.co.uk/98368-woodsides-standing-wooden-insect-hotel.html</a> |

| Hedgehog Box                                                                        |                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Hedgehog box made from FSC certified exterior grad plywood. It has chambers and a tunnel to help prevent predator interference. It is designed with built in ventilation to provide ambient temperature and humidity without draughts |
| Siting                                                                              | Sheltered and undisturbed location along boundary                                                                                                                                                                                     |
| Timing                                                                              | Boxes can be installed at any time of year following the cessation of construction works, but ideally in spring or summer                                                                                                             |
| Other notes                                                                         | Note that boxes should not be opened between the months of November and February (temperature dependent) to avoid hibernating hedgehogs                                                                                               |
| References                                                                          | Example hedgehog box<br><a href="https://www.wildcare.co.uk/10512-hedgehog-nest-box-nbc.html">https://www.wildcare.co.uk/10512-hedgehog-nest-box-nbc.html</a>                                                                         |

| Planting Mix                                                                                                                      |                   |      |                      |         |     |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|------|----------------------|---------|-----|
| Species                                                                                                                           | Common Name       | %    | Size                 | Spacing | Qty |
| <i>Pinus sylvestris</i>                                                                                                           | Scots Pine        | 15   | 1+1<br>20-30cm<br>BR | 2m      | 47  |
| <i>Picea abies</i>                                                                                                                | Norway Spruce     | 12.5 | 2+1<br>20-30cm<br>BR | 2m      | 39  |
| <i>Thuja plicata</i>                                                                                                              | Western Red Cedar | 12.5 | 1+0<br>20-40cm<br>BR | 2m      | 39  |
| <i>Betula pendula</i>                                                                                                             | Silver Birch      | 40   | 1+1<br>40-60cm<br>BR | 2m      | 126 |
| <i>Ilex aquifolium</i>                                                                                                            | Holly             | 4    | 40-60 C 2L           | 2m      | 13  |
| <i>Crataegus monogyna</i>                                                                                                         | Hawthorn          | 4    | 1+1<br>40-60cm<br>BR | 2m      | 13  |
| <i>Corylus avellana</i>                                                                                                           | Hazel             | 4    | 1+1<br>40-60cm<br>BR | 2m      | 13  |
| <i>Prunus spinosa</i>                                                                                                             | Blackthorn        | 4    | 1+1<br>40-60cm<br>BR | 2m      | 13  |
| <i>Rosa canina</i>                                                                                                                | Dog rose          | 4    | 1+1<br>40-60cm<br>BR | 2m      | 13  |
| Total area 1265m². Broadleaf species and Scots Pine to be of certified local provenance (seed zone 405), subject to availability. |                   |      |                      |         |     |
| Seed with Emorsgate EW1 Woodland Mix at a rate of 4g/m², in accordance with the suppliers instruction                             |                   |      |                      |         |     |

**NET BENEFIT FOR BIODIVERSITY**

Existing habitats are of little biodiversity value, comprising bare ground, earth banks and bramble scrub.

The Proposed Development will provide a net benefit for biodiversity via the creation of an area of managed mixed woodland, seeded with a woodland flora understory, which will be of a greater biodiversity value than the existing habitats.

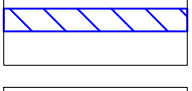
Further benefit will result from the provision of log piles, insect boxes and hedgehog boxes

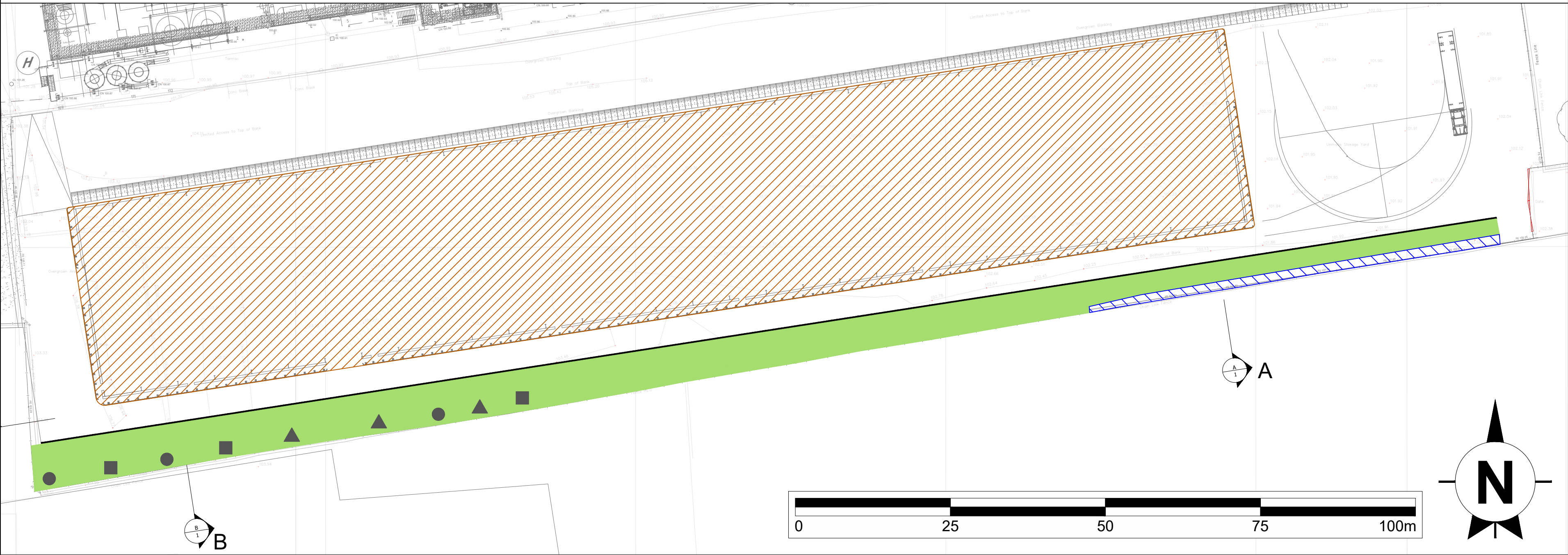
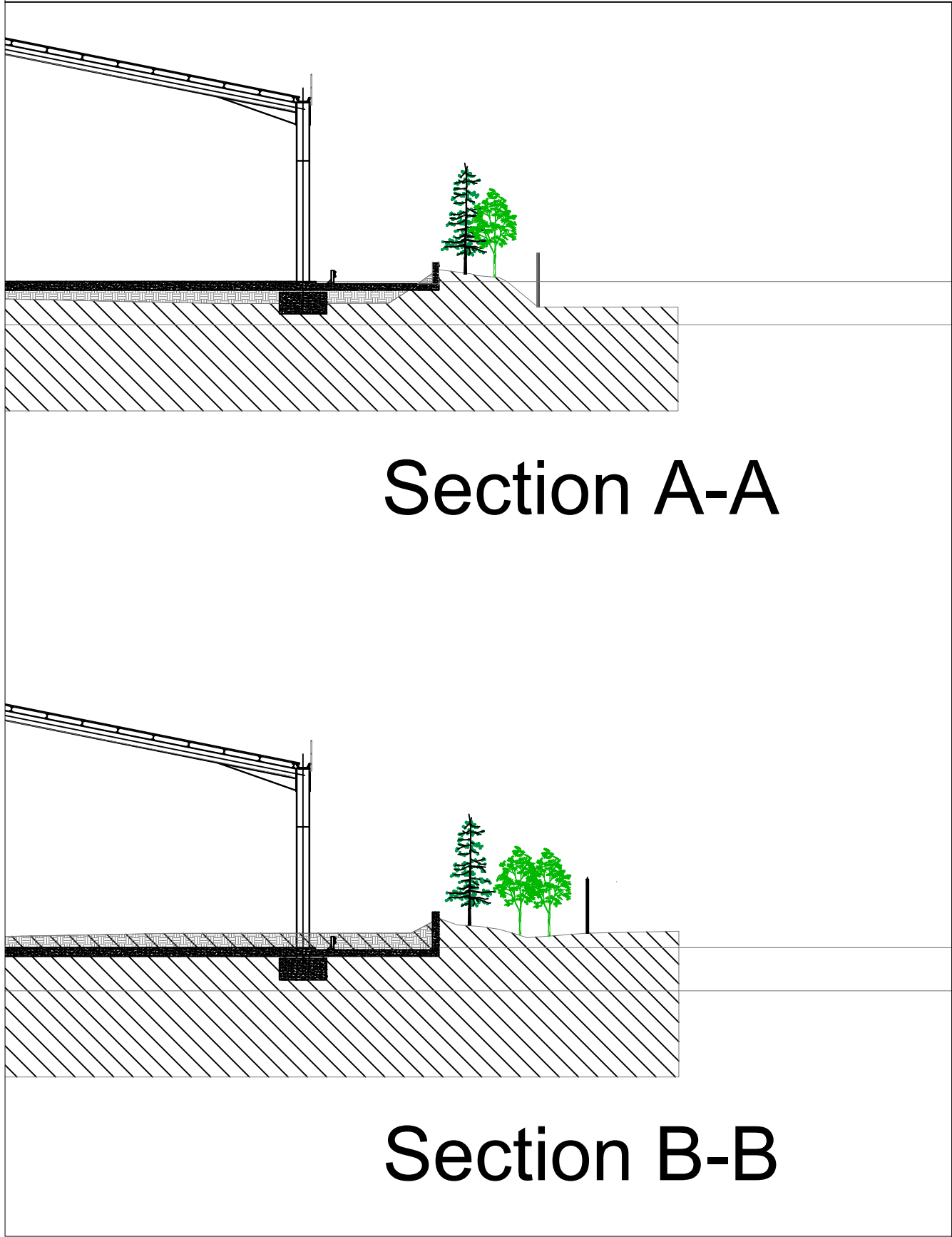
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Follow any figured dimensions - do not scale for construction purposes. IF IN DOUBT ASK.

| Revision History |  | Date |
|------------------|--|------|
|                  |  |      |

**Key:**

|                                                                                     |                         |
|-------------------------------------------------------------------------------------|-------------------------|
|  | Proposed New Building   |
|  | Tree Planting           |
|  | Steep Slope (unplanted) |
|  | Hedgehog Box            |
|  | Insect Box              |
|  | Log Pile                |



|                                                                       |  |                                                                                   |          |      |
|-----------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|----------|------|
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| 0844 8700 007                                                         |  | www.axisped.co.uk                                                                 |          |      |
| client:<br><br>Kronospan                                              |  |                                                                                   |          |      |
| project:<br><br>KRONOSPAN ENGINEERING PROPOSALS                       |  |                                                                                   |          |      |
| drawing title:<br><br>LANDSCAPE DESIGN                                |  |                                                                                   |          |      |
| date: February 2023                                                   |  | drawn by:                                                                         | checked: |      |
| drawing number:<br><br>3046-01-ENG-03                                 |  | AM                                                                                | JM       |      |
|                                                                       |  | status:<br>For Planning                                                           |          |      |
| scale(s):<br>1:500@A1<br>1:1000@A3                                    |  | rev:<br><br>--                                                                    |          |      |
| planning environment design                                           |  |                                                                                   |          |      |