# PROPOPOSED HARD LANDSCAPE FINISHES - see Drawing 406 for locations

PERMEABLE PAVING TYPE A) POROUS TARMAC GENERALLY: porous tarmac is produced & placed using the same methods as conventional tarmac; it differs in that fine (small) aggregates are omitted from the tarmac mixture.
The remaining large, single-sized aggregate particles leave open voids that give the material its porosity & permeability.
To ensure pavement strength, fibre may be added to the mix or a polymer-modified asphalt binder may be used.
Generally, porous asphalt pavements are designed with a subsurface reservoir that holds water that passes through the pavement, allowing it to evaporate and/or percolate slowly into the surround soils.

PROPOSED APPLICATION of porous tarmac at Louie Memorial Pavilion site:
1) to new vehicle entrance and circulation areas.
2) to new footpaths flanking the existing MUGA.

PROPOSED PRODUCT RANGE: Tarmac Ltd Permeable Asphalt systems

FURTHER DESCRIPTION: A permeable asphalt system is a development of traditional asphalt pavements, consisting of four distinct layers: a surface course, binder course, granular reservoir and a geotextile or geomembrane.
The properties and dimensions of each layer are dependent on the system's structural & hydraulic performance requirements & the existing site conditions.
PERMEABLE ASPHALT SYSTEMS
There are three core systems for the implementation of permeable paving systems, whose suitability is dependent on site conditions.

PROPOSED SYSTEM A, Full Infiltration -
The preferable solution for drainage systems, as it enables the surface water to be dealt with on site. The system allows all water entering the pavement to infiltrate through the constructed layers into the existing underlying ground.

PERMEABLE PAVING TYPE B) RESIN BOUND PAVING generally: resin bound paving is a mixture of resin binder and aggregate. Clear resin is used to fully coat each aggregate particle before laying. Enough resin is used to allow each aggregate particle to adhere to one another and to the base yet leave voids for water to permeate through. Resin bound paving provides a strong & durable surface, suitable for pedestrian and vehicular traffic in applications such as pathways, driveways, car parks and access roads.

PROPOSED APPLICATION of resin bound paving at Louie Memorial Pavilion site:
1) to new footpaths flanking new building, including approach footpaths from Arnold Way, and flanking footpaths under canopies at rear.
2) to wheelchair-accessible pavings adjoining the accessible parking bays

PROPOSED PRODUCT RANGE: Sudstech Permeable Paving System by Langford Direct

Further description:
Granular sub-base: Type 3 granular sub-base, 4/20mm graded crushed concrete aggregate with zero fines (incl recycled aggregates if locally available)
Sub-Base compacted thickness: 200mm, laid over permeable geo-textile membrane
Immediately prior to laying the sub-base material, excavate the final 75mm of sub-soil, compact the surface of the formation & lay the geo-textile membrane (Terram 1000 or equivalent)
Top Wearing Surface: 50mm thick Sudstech Paving system, resin-bound gravel/rubber compound, laid by an approved installer.

PERMEABLE PAVING TYPE C) PERMEABLE CONCRETE UNIT PAVINGS generally: these are pre-cast concrete units with open, permeable spaces between the units and bedded on sand bedding and a porous granular sub-base. They give an architectural appearance, and can bear both light and heavy traffic, particularly interlocking concrete pavers, excepting high-volume or high-speed roads.

PROPOSED APPLICATION of pre-cast concrete units at Louie Memorial Pavilion site:to new parking bays

PROPOSED PRODUCT RANGE: Marshalls Ltd Permeable Block Paving, Driveline Priora range.

Further description: Each 60mm block features the Marshalls unique patented 'Priora' nib design which allows surface water to pass between blocks into a specially calculated sub-base without compromising structural performance of the driveway. Block size 200 x 100 x 60mm. Available in six colours.

PERMEABLE PAVING TYPE D) PLASTIC STRUCTURAL GRID PAVING generally: plastic grids allow for a 100% porous system using structural grid systems for containing & stabilising either gravel or turf. The grids come in a variety of shapes and sizes depending on use; from pathways to commercial parking lots. They are gaining popularity due to requirements for many projects to meet environmental building standards. Plastic grid system are also popular due to their lower cost to install, ease of installation & versatility.
The ideal design for this type of grid system is a closed cell system, which prevents gravel/sand/turf from migrating laterally.

PROPOSED APPLICATION of plastics structural grid paving at Louie Memorial Pavilion site: containing seeded earth fill and providing a reinforced turf surface for outdoor events: to 'outdoor room' between new building & MUGA

PROPOSED PRODUCT RANGE:TERRAM Ltd 'Bodpave 85' grass pavers / paving grids.

Further description: TERRAM Bodpave 85 grass pavers / paving grids are a strong interlocking 100% recycled cellular porous plastic paving grid system for grass reinforcement, ground stabilisation & gravel retention for regular trafficked surfaces (pedestrian and vehicles). Bodpave 85 porous pavers can be installed with either a grass or gravel filled surface.
BodPave 85 permeable pavers are manufactured in the UK from UV Stabilised 100% recycled HDPE and are strong, chemically inert & non-toxic.
Bodpave 85 porous paving provides a durable, safe and environmentally friendly surface for trafficked areas with a very low carbon footprint. The units simply connect together and are filled with a sand:soil rootzone and seeded for a grass surface.

# PROPOPOSED WILDLIFE-FRIENDLY HEDGROW PLANTING - see also Drawing 406 for locations

NEW WILDLIFE-FRIENDLY HEDGING to RSPB & Wildlife Trust recommEndations; in mixed native species comprising 5 x plants per metre, planted in staggered double rows, as bare-rooted whips up to 80cm long, randomly mixed as follows:

Species mix to comprise:
- 20 % Hawthorn (Cratageus monogyna)
- 20 % Blackthorn (Prunus spinosa)
- 10 % Dog Rose (Rosa canina)
- 10 % Field Rose (Rosa Arvensis)
- 10 % Wild Cherry (Prunus avium)
- 10 % Bird Cherry (Prunus padus)
- 10 % Common Spindle ((Euonymus Europaeus)
- 10 % Holly (Ilex aquifolium)

In strip nom 1m wide, cultivate top 300mm of existing topsoil with new site topsoil added as necessary; with addition of Agripol Ltd Broadleaf P4 polymer fertiliser granules at rate of 100gms per m2, thoroughly incorporated into top 300mm

LONG-TERM MAINTENANCE & MANAGEMENT OF NEW HEDGING

Watering:
Water regularly during the first summer after planting.

Control weeds:
During the first 5 years after planting, remove any weed or grass growth that may compete for water & nutrients and hinder the establishment of the hedge.
Manitain a 50mm layer of bark mulch to help suppress weeds & reduce the amount of weeding required.

First Prune:
In the first spring, cut back the shrubs to 45-60cm above the ground; to encourage bushy growth resulting in a thicker hedge.

Replace dead plants:
Replace any dead plants in autumn to prevent gaps forming in the hedge.

LONG-TERM MANAGEMENT FOR WELL-ESTABLISHED DECIDUOUS HEDGES

For a thick hedge, prune each side alternately, every 3 years between November & February. Cut sections of hedge at different times, leaving undisturbed areas for wildlife.
To promote a thick base, angle the cut.

# PROPOPOSED WILDLIFE-FRIENDLY NATIVE TREE PLANTING - see also Drawing 406 for locations

NEW TREES GENERALLY:
PLANTING

- to be planted as Standards 2-2.5m H into prepared tree pits nom 1.2m dia x 0.6m deep; with soil broken-up to 150mm depth at bottom of pit
secure at least one tree stake 50- 75mm dia x 3m L, peeled round pole, pressure-treated; bedded min 0.6m below base of tree pit & with cushioned & adjustable rubber tie between stake and bole of tree
- With tree firmed into selected as-dug topsoil mixed with nom 80 litres of standard tree-planting compost; with addition of 500g/m3 medium fine bonemeal within top 400mm
- installed with watering pipe, perforated below 300mm.
- Tree pit finished in min 75mm, max 150mm bark mulch or woodchip topping.

NEW TREES GENERALLY:
3-YEAR MAINTENANCE

- Initial planting, staking & mulching as noted
- Generally, follow the guidance of Forestry Commission handbook, 'Tree care guide - a simple handbook for nurturing young trees' - including in particular:
- check & adjust rubber ties at least once every 12 months, to allow for growth & to avoid constriction or distortion
- check support posts every three months during first year after planting to ensure firmness and continuing support; thereafter re-check annually. Re-bed or replace support posts as necessary
- check each tree annually in September for damage, disease and absence of healthy growth; and re-plant in the following planting season (October-March inclusive) if necessary
- water copiously at first planting & thereafter check weather and ground moisture levels at least monthly during the first 12 months following planting & re-water via watering pipe as necessary; ensuring each tree receives at least 30 litres per day in spring and during any dry periods throughout the summer
- in second & successive years following planting, regularly monitor weather conditions & condition of trees and water as necessary, especially in spring & summer months
- at commencement of second growing season evenly apply a general fertiliser (ratio 10:6:6 NPK) at nominal rate 50 grams per tree pit
- maintain tree pit finishes in min 50mm, maximum 150mm bark mulch or woodchip topping, checking & topping-up every three months in first year following planting, thereafter annually. Suppress any weed growth by hand-pulling then re-mulching.

Notes

All dimensions must be checked on site & not scaled from this drawing

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| FULL PLANNING APPLICATION | | | |
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| Revisions | Date | by | Rev |

Client
North Hinksey Parish Council

Project
LOUIE MEMORIAL PAVILION SITE
Arnold Way Oxford OX2 9JD

HARD & SOFT LANDSCAPE
AS PROPOSED - NOTES -
read with Layout dwg 406

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