**Fleet Pond SSSI Nature Reserve**

**Specification: Sandy Bay Boardwalk Replacement**

1. **SCOPE AND SCHEDULE OF WORKS**
2. Remove and dispose of existing timber boardwalk (approx.1.5m x 150m)
3. Preparation works to include tree and scrub removal, processing temporary storage and removal and stump treatment
4. Instillation of new, wider and upgraded boardwalk as per specification below
5. Positioning of replacement boardwalk and scrub removal to ensure a clear 3m wide strip is available to the south of the replacement boardwalk (to retain vehicle access for site management)
6. Remedial works to ground and scrub/trees, refer to ‘4.0 Reinstatement and completion’
7. **LOCATION MAP**

Site address: Fleet Pond SSSI, access via main car park off Cove Road, Fleet, Hampshire Nearest postcode: GU51 2RT

What3Words: lift.resold.paces

2m height restriction gate (can be opened on request)

*Map to show location of existing boardwalk to be replaced and upgraded for improved access (blue solid line). Access route identified for machinery and vehicles (red dotted line).*

**Map

Description automatically generated**

Boardwalk location

Access route

1. **MAP OF WORKS**

*Map to show appropriate route, location and measurements for upgraded boardwalk. Numbers 1-6 for photo locations (see ‘8.0 Location Images’).*

**Map

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(2)

(6)

(5)

(4)

(3)

(1)

35m

Passing point

20m

25m

25m

45m

1. **BOARDWALK MATERIALS**

* All timber to be FSC certified
* Where softwood specified for use, to be Use Class 4 and tanalised with 20-year desired service life
* Provision can be made for storage of materials in car park area at Fleet Pond for duration of project, but contractor is responsible for ensuring material storage is secure (e.g. by provision of Heras fencing)
* Materials can be temporarily stored on areas of bare ground directly adjacent to the working area, providing there is a clear route adjacent to the area of works for emergency vehicular access
* Security of materials on site is the responsibility of the contractor at all times
* Materials:
  + Post supports: 100 x 100 Grade ‘A’ green Oak
  + Deck boards: 2000 x 150mm x 50mm UC4 boards (Oak or Douglas Fir). All decking timber should be planed finish. Boards to be installed with 5mm joints for drainage
  + Stringers / Joists: 100 x 75mm (Oak or Douglas Fir)
  + Bearers: 100mm x 75mm (Oak or Douglas Fir)
  + Kick rails: 3600 x 75 x 75mm (Oak or Douglas Fir). with planed finish
  + Non-slip grip strips:
    - To British Standard
    - Medium grit (at least 50mm)
    - 2m long x 50-70mm wide to be attached every other board in accordance with supplier recommendations. Colour: Tan
    - Modify to cover passing point
    - Example hyperlink: [www.safetread.co.uk](https://www.safetread.co.uk/decking-strips/anti-slip-decking-strip-step-strip-50mm?_gl=1*1fxtyl2*_up*MQ..&gclid=Cj0KCQjwyMiTBhDKARIsAAJ-9Vsfew2ayelDci0-5eyLwMgqRYJzHNjpAzmvVhYgMBgE81EfWkaK8BQaAq2yEALw_wcB)

1. **DESCRIPTION OF WORKS**
   1. Total quantity of **x 22** trees to be felled and chord wood stacked in neat habitat piles in nearby woodland, and brash to be chipped onto log piles. Plugs to be used for felled trees in accordance with manufacturer recommendations for number, location, etc
   2. All of the 22 trees for felling are between 100mm-250mm diameter, with the exception of one larger birch, diameter approx.. 300mm
   3. Scrub (e.g. holly) to be cut and chipped into nearby woodland in discrete piles and stumps to be treated with ecoplugs where too large for stump painting. Otherwise, stump treatment with appropriate herbicide to be applied.
   4. Remove entirety of existing timber boardwalk and supports and dispose off responsibly off site, such as at a licenced waste disposal/recycling facility.
   5. Refer to ‘3.0 Map of Works’ for details on path lengths. Where two lengths join, there is expected to be a mild change in direction of the boardwalk
   6. Total route length is approximately **150m**
   7. Use materials above to construct boardwalk to design drawing below. Boardwalk to be constructed level and generally following the profile of the ground.

**Width** of new boardwalk to be 2m (but extended to 3m width at passing point)

Boardwalk height to match the **height** of the existing boardwalk

Diagram, engineering drawing

Description automatically generated

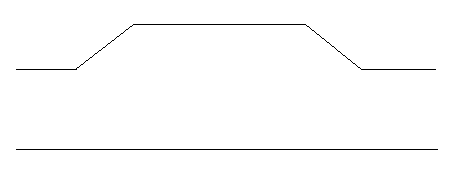
2000

A picture containing outdoor, grass, wooden, wood

Description automatically generated

* 1. Passing point to be 3m width, where 1m is extended beyond the main boardwalk section and tapered at each end:

approx. 4m



2m

3m

* 1. 2m wide boardwalk to be constructed in 3.6m sections with 3 stringers / joists per section held in place with 6no. 100mmx 100mm oak posts per section. Stringers to be fixed to posts using 2no.
  2. M10 125mm coach screws per post. Stringers to be supported on 100mm x 75mm bearers secured to posts. Double bearers to be installed where sections join. Deck boards to be secured to the framework with 6no. galvanised or stainless screws per board. Deck rails to be secured to boards with galvanised or stainless screws. All as per detail drawing J00581-002.
  3. Boardwalk to be constructed level and generally following the profile of the ground. Finished deck level to be c.385mm above finished ground level. Ends of boardwalk to be sloped to meet ground level smoothly with max. slope of 1:12
  4. All vertical posts and horizontal surface of boardwalk to be straight with spirit level, with the exception of ends that are deliberately sloped to meet ground level
  5. Ends of boardwalk to be sloped to meet ground level smoothly, without trip hazards

1. **ADDITIONAL WORKING REQUIREMENTS**
   1. When working within the canopy of trees avoid damage to roots and avoid compaction of soil in tree root zones. Use the smallest, lightest machinery possible to undertake the works, and close to trees only hand tools should be used.
   2. Set out line of paths on site for checking by client prior to constructing edges and carrying out any base excavations.
   3. Contractor to consider how operational activities may impact on interaction with site users and put in provision to ensure users and dogs are kept safe (e.g. use of herras fencing to temporarily block access along route or sections of route).
   4. There must be a clear, accessible route maintained adjacent to the area of works for emergency vehicular access at all times.
   5. Tree and scrub works must not have an adverse impact on wildlife, in particular nesting birds. Competent person to check immediate vicinity and trees/scrub for removal prior to carrying out works, to ensure no nesting is occurring. If any protected species and/or nesting birds are discovered during works then contractor is to make area safe, cease work and contact Project Manager/Site Ranger/Biodiversity Officer to inform them. Works should not recommence until signed off by above staff member (if active nests are found the area must be protected until the chicks have fledged).
   6. Avoid chipping against standing trees and check chipping area for nesting wildlife prior to chipping
   7. Site ranger to view works with site foreman to view the work and ensure that the work has been completed to satisfaction. This is to take place ideally before any machinery and material are removed from site.
   8. The site is a Site of Special Scientific Interest (SSSI); assent for this work has been obtained from Natural England and must be undertaken in accordance with this.
2. **REINSTATEMENT AND COMPLETION**
   1. Remove any temporary signage, barriers and fencing from site.
   2. Make good all damage to any natural and man-made surfaces caused by the works, by access to the works by plant and machinery, by storage of materials and other causes within the contractor’s control.
   3. Compacted soil should be de-compacted and re-graded.  Contaminated soil (for example accidental spillage of fuel) must be excavated and removed from site to an approved landfill site and replaced with uncontaminated subsoil and topsoil to match existing soil profile.
   4. Make good any damage to retained trees and other woody plants by pruning back damage to healthy growth in accordance with good arboriculture practice.
   5. Leave site clean and tidy.  Remove all excess materials from site to the contractor’s store or to an approved tip, unless otherwise agreed in writing.
3. **LOCATION IMAGES**

Blue lines in images below indicate approximate route of new boardwalk, red circles indicate some of the ‘typical’ trees for removal. Trees will be identified using paint markers on site during works. All trees 100mm-2500mm DBH, unless otherwise stated below.

Section 1 Approximately 45m

This section will be shifted slightly northwards and the current kinks straightened out; this will involve the removal of 2 willow, 4 sub-mature oaks and 1 ash to the north of the existing boardwalk. Moving westwards just before the corner a group of 3 alder (plus a dead alder) some holly, bramble and ash scrub will need to be removed in order to allow the path to follow a more linear route.

To the south there is sufficient width before the treeline but the brash pile will need to be removed and scrub vegetation (bramble, pedunculate sedge and holly) will need to be strimmed back by up to 2m.

Existing boardwalk at (1)

Trees for removal: Willow x2, sub-mature oak x4, ash x1

A dirt road with trees on either side of it

Description automatically generated with medium confidence

Same location, different angle at (1)

A picture containing tree, grass, outdoor, path

Description automatically generated

Section 2 Approximately 35m (start point w3w: Shapes. Buzzards. Wobbling)

This section also requires shifting northwards and straightening out to provide a more linear route.  Moving westwards this will involve removal of a clump of 3 alder, a birch and an alder and holly scrub.  At the end of this section a larger silver birch and 2 alders would need to be removed, this then creates an area for the 3m width passing place.

Holly/bramble/pedunculate sedge scrub and trees for removal at (2)

Trees for removal: Alder x4, birch x1

A picture containing tree, outdoor, plant, forest

Description automatically generated

Holly scub removal

Same holly scrub location, different angle:

A person walking on a path in a forest

Description automatically generated with low confidence

Passing point at (3)

Trees for removal to enable construction of passing point: Alder x2, birch (300mm DBH) x1

A wooden bridge in the woods

Description automatically generated with low confidence

Passing point

A picture containing tree, outdoor, ground, grass

Description automatically generated

Passing point

Section 3 Approximately 20m (start point w3w: Released. Goad. Absent)

This will follow the same route as the current boardwalk, however rather than extending northwards (which would involve significant tree removal) the additional width will extend southwards (as this area is mostly bare ground of sufficient width)

Section 4 Approximately 25m (start point w3w: Points. Collapsed. Mavericks)

This follows an approximately straight-line westwards to the corner kink and will extend northwards once again.  An alder will need to be removed on the corner

Tree removal: Alder x1 on corner

A picture containing tree, outdoor, ground, path

Description automatically generated

Section 5 Approximately 25m (start point w3w: Flap. Haven. Harshest)

The route currently forms a tight curve round to sandy bay.  The path will extend northwards and to reduce the curve, the path will require the removal of a dead leaning tree and a group of 5 sub-mature alders to the north.

To the south there is sufficient width, but there is dense holly understory so this will be managed (for biodiversity enhancement) by cutting 4m width scallops for a length of about 10m.

A picture containing tree, ground, outdoor, path

Description automatically generated

Holly scrub removal

Tree removal: Sub-mature alders x5 and dead alder x1

A picture containing tree, ground, outdoor, plant

Description automatically generated

A person walking on a path in a forest

Description automatically generated with medium confidence

End point w3w: Squish. Choirs. Aimlessly

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