**DRAWING REGISTER AND DOCUMENT ISSUE SHEET**

**Project No. D1005**

**Project Name:** Dry Dock No.2 Access

**Discipline:** Architectural

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Carefully remove existing stair and handrails. Prop to be removed by others prior to walkway works starting. Refer to DWG 226 for details.

Make good holes in stonework with lime mortar where railings removed.
Revisions: P2 Design Development
          P3 Issue to Client and QS
          T1 Tender Issue

PROJECT: Dry Dock No.2 Access
SHEET: Proposed Detailed Plan - Broad Altar Walkway

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**PROJECT:** Dry Dock No.2 Access  
**SHEET:** Proposed Detailed Plan - Staircase  
**DRAWING NO:** A1005 223  
**REV:** T1  

**SCALE:** 1:50  
**DATE:** July 19  

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**Porters Lodge, College Road**  
**HM Naval Base, Portsmouth, PO1 3LJ**  
**email:** studio@pritchardarchitecture.co.uk

### FOR TENDER

**Revisions:**
- P2: Design Development  
- P3: Issue to Client and QS  
- T1: Tender Issue  
  
**Drawing Details:**

**Drawing No:**  
- A1005 223

**Details:**

- **Scale:** 1:50  
- **Date:** July 19

**Design Information:**

- **New stair - Overall width to be the same as existing chute including kerbs.**
- **Secondary stainless steel handrails at 900mm high to both sides of stairs.**
- **Secondary higher rail to balustrade to prevent visitors leaning over to touch keel.**
- **Yellow step nosing to first and last steps. Intermediate nosings to be at least 40 point difference to tread.**
- **Steelwork fixed into joints with rubber gasket between steelwork and stonework.**

**Construction Details:**

- **Stair treads as Elefant gratings type 05-M or similar approved.**
- **Secondary stainless steel handrail at 900mm high to both sides of stairs.**
- **New stair - Follows pitch of chute below.**
- **Approach - 2500mm tread.**
- **Secondary handrail to balustrade to prevent visitors leaning over to touch keel.**
- **Balustrade to one side of walkway - 1100mm high, fixed into concrete dock bottom.**
- **Balustrade to one side where there is stone upstand - 1100mm high.**
- **New stair - Follows pitch of chute below.**
- **Approach - 2500mm tread.**
- **Secondary handrail to balustrade to prevent visitors leaning over to touch keel.**

**Maintenance Access:**

- **Maintenance access gate in balustrade secured with panic bolt.**
- **Access gate for maintenance and means of escape.**

**Drainage Channel:**

- **Drainage channel 3.**

**Steel Walkway Structure:**

- **Steel walkway structure constructed of approx 2500mm sections creating a chamfer that suits the curved profile of the dock.**
- **Dividing removable posts, with floor sockets recessed into walkway.**
- **Refer to DWG 324.**
- **Metal plate overlaid onto bottom step to create level surface.**
- **Secondary higher rail to balustrade to prevent visitors leaning over to touch keel.**
- **Secondary stainless steel handrail at 900mm high to both sides of stairs.**

**Dock Bottom Walkway Structure:**

- **Dock bottom walkway structure sits directly on dock bottom with rubber gaskets between steelwork and concrete basin.**
- **Balustrade to one side of walkway - 1100mm high, fixed into concrete dock bottom.**
- **Balustrade to one side where there is stone upstand - 1100mm high.**
- **Fixed into concrete dock bottom.**
- **Area of walkway follows slope of stonework below.**

**Other Details:**

- **Maintenance access gate in balustrade secured with panic bolt.**
- **Access gate for maintenance and means of escape.**
- **Secondary higher rail to balustrade to prevent visitors leaning over to touch keel.**

**Drawings Referenced:**

- **Refer to DWG 324.**

**Additional Notes:**

- **Survey to be undertaken by contractor prior to finalising design.**

**Contact Information:**

- **email:** studio@pritchardarchitecture.co.uk
Dock bottom walkway structure sits directly on dock bottom with rubber gaskets between steelwork and concrete basin.

Access gate for maintenance:
- Width to suit
- 900mm high
- Standard vertical bar railing gate - galvanized finish
- With sliding latch both able to be secured with a padlock
- Fixed within opening in keel support wall

Balustrade to one side of walkway - 1100mm high
- Dividing removable posts, with floor sockets recessed into walkway
- Refer to DWG 324

Download the full PDF from this link: [File Link]
Secondary handrails at 900mm to both sides of stairs

Steps up to rudder viewing area
Approx - 300mm head
- 157mm rain
Stair treads as Elephant grating type 05-M or similar approved.
Yellow step nosings.
Steelwork fixed into joints with rubber gasket between steelwork and stonework. Survey to be undertaken by contractor prior to finalising design.

Balustrade to perimiter of rudder viewing area. Steps within walkway meets lowest support wall.

Staircase access for maintenance and means of escape. Secured using panic bolt.

Steel walkway structure constructed of sections creating a chamfer that suits the curved profile of the dock.
Grating planks to follow curve and be chamfered to suit.

Access gate for maintenance and means of escape.
Secured using panic bolt.

Wallway moved away from wall where keel support wall is lower and visitors would be able to touch the keel.
Replace existing lights and commando sockets and relocate. Make good ground finish to match existing.

Carefully remove lights and commando sockets and relocate. Make good ground finish to match existing.

Retain existing lighting protection box and cable stay in existing positions.

Retract stanchion post to adjacent to unused cable stay base. Exact location to be agreed on site.

Provide new clamps and ropes for netting between existing posts and new relocated stanchion post.

Netting and chain to be dipped so that in the event of an emergency they can be easily unplugged.

Posts to handrail at top of stairs to fixed into main bound gravel no stonework or cobbles.

Retract Commando sockets - exact location to be agreed on site.

Cut back existing pipe and cable back to face of stone riser.

Provide new chain and rope netting between existing posts and new relocated stanchion post.

Netting and chain to be clipped so that in the event of an emergency they can be easily unclipped.

Allow for 2 nos. backstays fixed into joints.

Replace Commando sockets - exact location to be agreed on site.

Carefully remove lights and commando sockets and relocate. Make good ground finish to match existing.

Retract Commando sockets. Exact location to be agreed on site.

Replace Commando sockets. Exact location to be agreed on site.

New handrail to one side of existing stair. Fixed into joints.

New handrail to one side of existing stair. Fixed into joints.

Retain existing lighting protection box and cable stay in existing positions.

New handrail to existing stair. Fixed into joints.

New handrail to existing stair. Fixed into joints.
New external LED emergency Floodlight with 3hr backup in Black. Mounted on dock wall, fixed into joints.

Directional exit signage on barrier.

Gate to have Emergency escape panic bolt

Exit signage on gate.

8 No. Additional emergency lights to match existing added to and mounted on concrete keel support wall. To be added to the same circuit as existing emergency lighting on keel wall.

5 No. New emergency lighting fixed to walkway and stair structures. As DWG 601. To be added to the same circuit as existing emergency lighting on keel wall.
Balustrade to both sides of walkway - 1100mm high

Steelwork on rubber packers allowing for water to drain underneath.

Steel pedestal feet to support walkway over step. Fixed into joints with rubber gasket between steelwork and stonework.

Steel walkway structure constructed of approx 2500mm sections creating a chamfer that suits the curved profile of the dock.

Balustrade to one side of walkway - 1100mm high

Balustrade to both sides of walkway - 1100mm high

Steel walkway structure constructed of approx 2500mm sections creating a chamfer that suits the curved profile of the dock.

Secondary higher rail to balustrade to prevent visitors leaning over to touch keel.

Secondary handrails at 900mm to both sides of stairs

Balustrade to both sides of stair - 1100mm high

LED strip tape in aluminium channel fixed to stringers on both sides to provide light to steps as requested by Access advisor.

New stair - Follows pitch of chute below

Approx: 250mm tread - 180mm nos.

Secondary handrails at 900mm to both sides of stairs

Secondary higher rail to balustrade to prevent visitors leaning over to touch keel.

Landing to accommodate slope of existing floor ramp

Wallarea follows slope of dock bottom

Area of walkway gradient of minimum 1:21

Balustrade to both sides of walkway - 1100mm high

Balustrade to both sides of walkway except where there is stonework upstand - 1100mm high

Area of walkway follows slope of stonework below

Balustrade to both sides of walkway - 1100mm high

NEW STAIR

Landing to accommodate slope of existing floor ramp

Wallarea follows slope of dock bottom

Area of walkway gradient of minimum 1:21

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Secondary handrails at 900mm to both sides of stairs

Secondary higher rail to balustrade to prevent visitors leaning over to touch keel.

Landing to accommodate slope of existing floor ramp

Wallarea follows slope of dock bottom

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Secondary higher rail to balustrade to prevent visitors leaning over to touch keel.

Landing to accommodate slope of existing floor ramp

Wallarea follows slope of dock bottom

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Area of walkway follows slope of stonework below

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New stair - Follows pitch of chute below

Approx: 250mm tread - 180mm nos.

Secondary handrails at 900mm to both sides of stairs

Secondary higher rail to balustrade to prevent visitors leaning over to touch keel.

Landing to accommodate slope of existing floor ramp

Wallarea follows slope of dock bottom

Area of walkway gradient of minimum 1:21

Balustrade to both sides of walkway - 1100mm high

Balustrade to both sides of walkway except where there is stonework upstand - 1100mm high

Area of walkway follows slope of stonework below

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LED strip tape in aluminium channel fixed to stringers on both sides to provide light to steps as requested by Access advisor.

New stair - Follows pitch of chute below

Approx: 250mm tread - 180mm nos.

Secondary handrails at 900mm to both sides of stairs

Secondary higher rail to balustrade to prevent visitors leaning over to touch keel.
Steelwork on rubber packers allowing for water to drain underneath.

Secondary higher rail to balustrade to prevent visitors leaning over to touch keel.

Secondary handrail at 900mm to both sides of stairs.

Balustrade to both sides of walkway except where there is stonework - 1100mm high.

Steel walkway structure constructed of approx 2500mm sections creating a chamfer that suits the curved profile of the dock.

Steel pedestal feet to support walkway over step. Fixed into joints with rubber gasket between steelwork and stonework.

Balustrade to both sides of stair - 1100mm high.

New stair - Follows pitch of chute below.

Approx - 250mm tread
               - 196mm riser

Yellow step nosing to first and last steps. Intermediate nosings to be at least 40 point difference to tread.

Steelwork fixed into joints with rubber gasket between steelwork and stonework. Or possible reuse of fixing places from previously removed stair where suitable.

FOR TENDER

This drawing is ©copyright Pritchard Architecture 2018. No dimensions to be scaled from this drawing except for planning purposes.
Galvanised 50x25 top rail

Galvanised 50x50 stanchion post

Stainless steel cable mesh

Stainless steel cable mesh not held secured to frame with stainless steel connecting rope

30mm diameter stainless steel tube with stainless steel bracket fixed to stanchion with rubber packer interlayer.

Stanchion posts fixed down to steel structure with countersunk fixings.

Galvanised grating floor plank

50 x 50 galvanised angle

Steel packers to support structure to pedestal feet

Galvanized and painted steel structure

Steel pedestal feet to support walkway, fixed into joints where fixings are required

Stainless steel cable mesh net held secured to frame with stainless steel connecting rope.

Galvanized and painted steel channel fixed down where required into joints. Rubber packers between steelwork and stonework.

Rubber gasket underneath steel pedestal feet to protect stonework.
Steelwork on rubber packers allowing for water to drain underneath.

Walkway follows slope of dock basin

Access gate for maintenance and emergency escape - 1100 high

Secondary handrails at 300mm to both sides of stairs

Steel pedestal feet to support walkway to meet the level of emergency escape stairs. Fixed into joints with rubber gasket between steelwork and stonework.

New stair - Follows pitch of chute below. Approx - 300mm tread - 142mm rise. Yellow step nosing to first and last steps. Intermediate nosings to be at least 40 point difference to tread.

Secondary handrails at 300mm to both sides of stairs

Balustrade to both sides of stair - 1100mm high

Steel pedestal feet to support walkway. Fixed into concrete dock bottom. Must avoid timbers that run within the concrete.

New stair - Follows pitch of chute below. Approx - 300mm tread - 142mm rise. Yellow step nosing to first and last steps. Intermediate nosings to be at least 40 point difference to tread.

Secondary handrails at 300mm to both sides of stairs

Steelwork on rubber packers allowing for water to drain underneath.

Steel pedestal feet to support walkway in meet the level of emergency escape stairs. Fixed into joints with rubber gasket between steelwork and stonework.

Access gate for maintenance and emergency escape - 1100 high

New stair - Follows pitch of chute below. Approx - 300mm tread - 142mm rise. Yellow step nosing to first and last steps. Intermediate nosings to be at least 40 point difference to tread.

Secondary handrails at 300mm to both sides of stairs

Balustrade to both sides of stair - 1100mm high

Steel pedestal feet to support walkway. Fixed into concrete dock bottom. Must avoid timbers that run within the concrete.

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Secondary handrails at 300mm to both sides of stairs

Steelwork on rubber packers allowing for water to drain underneath.

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Access gate for maintenance and emergency escape - 1100 high

New stair - Follows pitch of chute below. Approx - 300mm tread - 142mm rise. Yellow step nosing to first and last steps. Intermediate nosings to be at least 40 point difference to tread.

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Access gate for maintenance and emergency escape - 1100 high

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New stair - Follows pitch of chute below. Approx - 300mm tread - 142mm rise. Yellow step nosing to first and last steps. Intermediate nosings to be at least 40 point difference to tread.

Secondary handrails at 300mm to both sides of stairs

Steelwork on rubber packers allowing for water to drain underneath.
**Access gate for maintenance.** Width to suit, 900mm high standard vertical bar railing gate - galvanised finish. With sliding latch both able to be secured with a padlock. Fixed within opening in keel wall support wall.

**Steelwork flush with grating at opening in keel wall.**

**Steelwork flush with grating at opening in keel wall.**

**Steelwork flush with grating at opening in keel wall.**
50mm diameter circular handrail welded to posts. Galvanised and painted black.

40mm solid square section post, welded to solid bar. Galvanised and painted black.

50 x 5 mm solid bar to follow profile of dock steps. Fixed into joints. Rubber strip between steelwork and stonework. Galvanised and painted black.

Survey required to ensure exact profile of dock steps followed.

Handrail made in sections offshore and then bolted together onsite using countersunk fixings.

Contractor to provide fabrication drawings prior to manufacture.

50mm diameter circular handrail welded to dock wall with handrail brackets. Handrail brackets to be fixed into joints only. Galvanised and painted black.

1 No. 40mm solid square section post to support handrail at top of steps with welded base plate fixed down with countersunk fixings into resin bound gravel, not into stonework.

50mm diameter circular handrail welded to dock wall with handrail brackets. Handrail brackets to be fixed into joints only. Galvanised and painted black.

Section G-G

Section H-H
Ansell Guardian Emergency 3W LED Bulkhead (Grey) (Or similar approved) Fixed to posts. Number and location as Emergency Plan DWG 230. Mounting height to be agreed on site. Grey cable from light fitting clipped to post.

Typical Balustrade Section 1:10 @ A3

Outer Face Elevation 1:10 @ A3

Inner Face Elevation 1:10 @ A3

Galvanized 50x25 top rail
Galvanized 50x50 stanchion post
Stainless steel handrail - 50mm diameter (7's stairs and stairs only)
Stainless steel handrail bracket - Part M compliant. Fixed to stanchions with rubber packer infill between (7's stairs and stairs only)
Ansell Guardian Emergency 3W LED Bulkhead (Grey) (Or similar approved) Fixed to posts. Number and location as Emergency Plan DWG 230. Mounting height to be agreed on site.
Grey cable from light fitting clipped to post
Stainless steel cable mesh
30mm diameter stainless steel tube with stainless steel bracket fixed to stanchions with rubber packer infill between
Stainless steel cable mesh net held secured to frame with stainless steel connecting rope
50 x 50 galvanized angle
Galvanised and painted steel structure

PROJECT: Dry Dock No.2 Access
SHEET: Balustrade Details
DRAWING NO: A1005 601
SCALE: 1:10
DATE: Sept 19

FOR TENDER

0 100 200 300 400 500 mm

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