

Galvanised steel step-over retained and modified with an additional walk way and steps positioned of the DAC pipe work in PHASE 8.

*Red dashed line denotes the indicative position where pipework is to step down once passed existing cable trays.

HATCHED ZONE DENOTES HANDRAIL IN HORIZONTAL POSITION

STEP UP

STEP UP

STEP UP

Pipe supports @5000mm Ctrs.

174150
TOP OF
CABLE TRAY

175115
TOP OF
PIPEWORK

TOP OF
EXISTING
+ BALLAST
173.550

DAC 01

DAC 02

* See A(02)05 for extent of existing plant and support gantry to be removed. New plant gantry is supported on existing beams on grids 10&13.

Existing plinths retained.

Maintenance walkway extended with additional paving slabs laid over the existing ballast.

Permanent maintenance access hatch within the elephant grating system to be provided. Site survey required to determine the location of the existing smoke extract fan.

FE

- 01 Current drainage layout to be adapted for new rainwater goods.
- ! Subject to planning approval

Scope of works - Roof

General Note:
Design intent for the supporting structure, follows the general principals set out in ARUP drawing:
HSBCCM-ARP-XX-40-DR-M-154801.

- R.01 The roof canopy system over the new dry air coolers, are formed using using standard clear rigid polycarbonate sheets and powder coated aluminium glazing bars. The support posts are universal hot dipped columns with welded tapered vertical flanges, the roof sections are from SHS and the canopy stop ends formed using PFC's. See drawing 'A(02)20' for structural layout. All structural elements sizing & bracing/haunches to be confirmed by the S.E.
- R.02 Aluminium rainwater goods fixed to the eaves steelwork. All proposed steelwork to have a hot dip galvanised anti corrosion pre-finish treatment.
- R.03 Access gantry open mesh "Elephant" type floor as S.E's details, galvanised steel handrail guarding to the perimeter of the plant deck and access steps to British Standards. The access floor is to be inset with 1000 x 1500mm 15 x 30mm Mesh/25 x 2mm Elefant galvanised steel grating panels or similar approved system.
- R.04 Telescopic folding guardrail system with a fixing system that can be integrated with the existing gantry rail.
- R.05 Two new Dry Air Chillers to replace existing plantroom equipment. Final specification to be confirmed by ARUP/specialist subcontractor.
- R.06 Existing electrical trays to be retained
- R.07 Proposed 862mm wide galvanised steel step-over system, with nominal 220mm riser and 250mm going to comply with British standards.
- R.08 4 x 250mm Ø pipes with insulated outer.
- R.09 Galvanised pipe support frames @ max 5m ctrs. fixed to existing roof slab. The support frames are to be weatherproofed and insulated to avoid cold bridging, and lapped to existing Single Ply Elastomeric Membrane. All applications be in accordance with the manufacturers recommendations.
- R.10 Pipe support clamps over the SHS frame.
- R.11 New weatherproof enclosure to be constructed over the existing riser top. See sketch detail on 'A(47)01' for general principles.
- R.12 Alter existing louvered cowls to provide weathering to new pipes.

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Revision

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SYGDC
TANKERSLEY

New Chiller Pipework
Proposed DAC Gantry Plan

A1 Scale 1:50	A3 Scale 1:100	Date 26.04.2024	Drawn By LJR	RIBA Chartered Institute
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