

Wick John
O'Groats Airport –
Runway 13/31
Rehabilitation

Completion
Statement
60474265-DOC-003

# Wick John O'Groats Airport Runway 13/31 Rehabilitation – Completion Statement

Issue	Date	Details	Prepared by	Checked by	Approved by	
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			Senior Assistant Engineer	Technical Director	Technical Director	
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## 1. INTRODUCTION

This document describes the works carried out under the recent Wick Runway 13/31 Rehabilitation contract at Wick John O'Groats Airport in Caithness, Scotland.

The contract was awarded to Balfour Beatty in April 2016.

Works commenced on site on 18 April and were completed on 26 August.

The contract was project managed and supervised by AECOM who had a full-time Supervisor on site throughout the works.

#### 2. DESCRIPTION OF THE PROJECT

The works included in the contract are shown on attached drawing numbers 60474265-701 rev Z1 and 60474265-702 rev Z1. The works comprised:

## **RUNWAY 13 END**

**Section A1:** Existing concrete removed and replaced with 125mm Dry Lean Concrete under 250mm Pavement Quality Concrete.

**Section C1:** Existing asphalt removed and replaced with Marshall Asphalt to a thickness of 275mm.

### **RUNWAY 31 END**

**Section C2:** Existing asphalt removed and replaced with Marshall Asphalt to a thickness of 275mm.

**Section A2:** Existing concrete removed and replaced with 125mm Dry Lean Concrete under 250mm Pavement Quality Concrete.

#### **RUNWAY SHOULDERS**

Outer 7.5m widths of Runway 13-31 between Area C1 and C2 were planed out to 50mm depth and replaced with 50mm Marshall Asphalt

## **RUNWAY 08/26**

Section E: Existing asphalt overlaid with 275mm thickness of Marshall Asphalt.

### **ACCESS TRACKS**

Access Tracks Alpha and Bravo: Constructed with 200mm Marshall Asphalt over 320mm Type-1 Sub base.

## 3. DESIGN

A Pavement Survey was carried out by an AECOM specialist pavement team. The results of the survey formed the basis of the design of the works and this design was agreed with USAF in early 2016. This design was enshrined in the construction contract.

The as-built design thicknesses of the rehabilitated areas give a PCN of 20 for the full length of both Runway 13/31 and Runway 26 North.

In line with the original basis of design, the as-built design is also confirmed as being adequate for 12(5)(a) movements of a Boeing C-17 Globemaster aircraft. HIAL are content with this and are prepared to permit these operations on a case-by-case approval. HIAL will instigate a post-operation assessment to re-assure themselves that the pavement and associated infrastructure has not been detrimented.

## 4. CONSTRUCTION

The works have been completed in accordance with the design and specification set out in the contract documents.

The specification included the following UK standard Ministry of Defence - Defence Estate (DE) specifications:

DE Specification 13 - Marshall Asphalt for Airfields

DE Specification 33 - Pavement Quality Concrete for Airfields

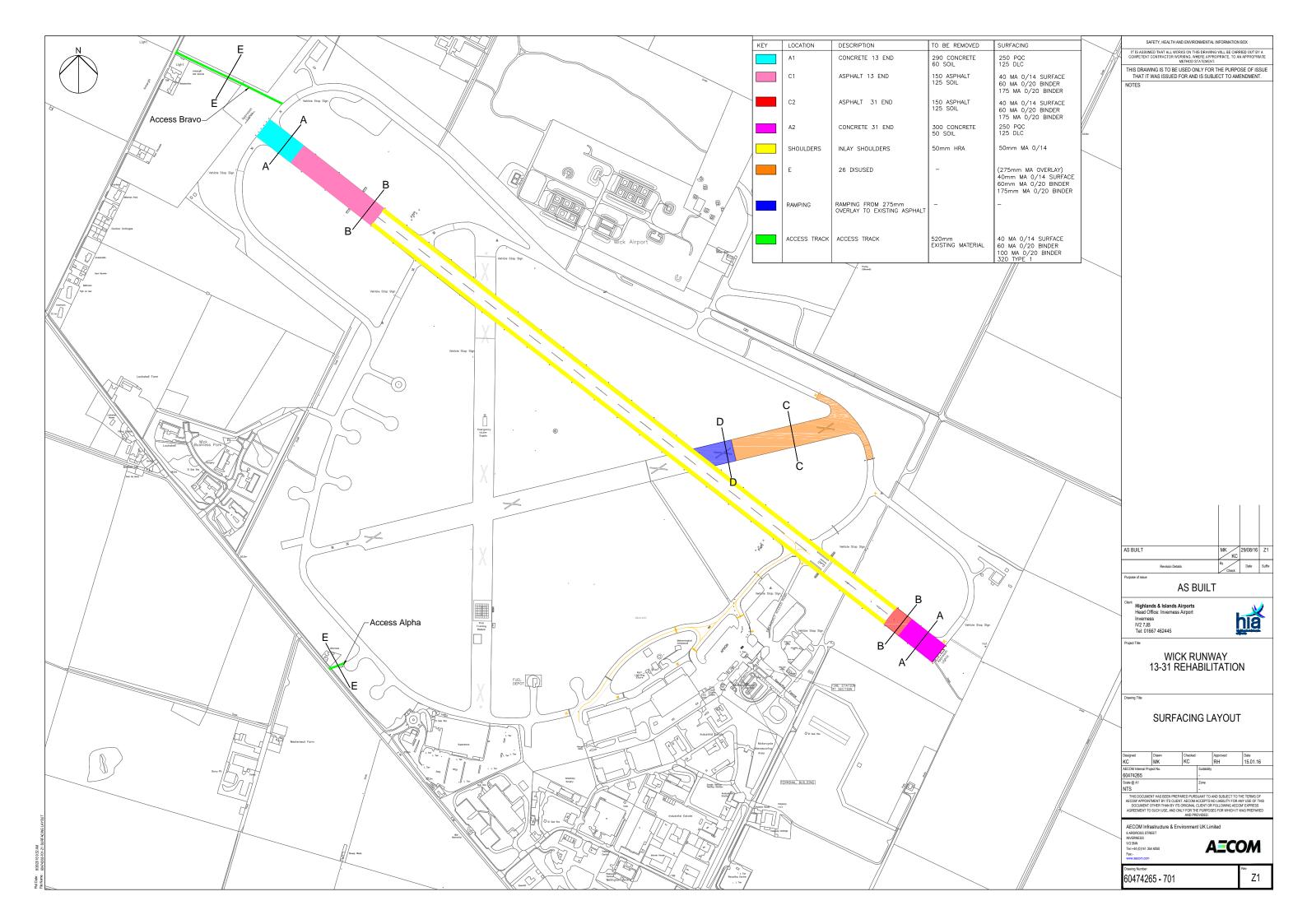
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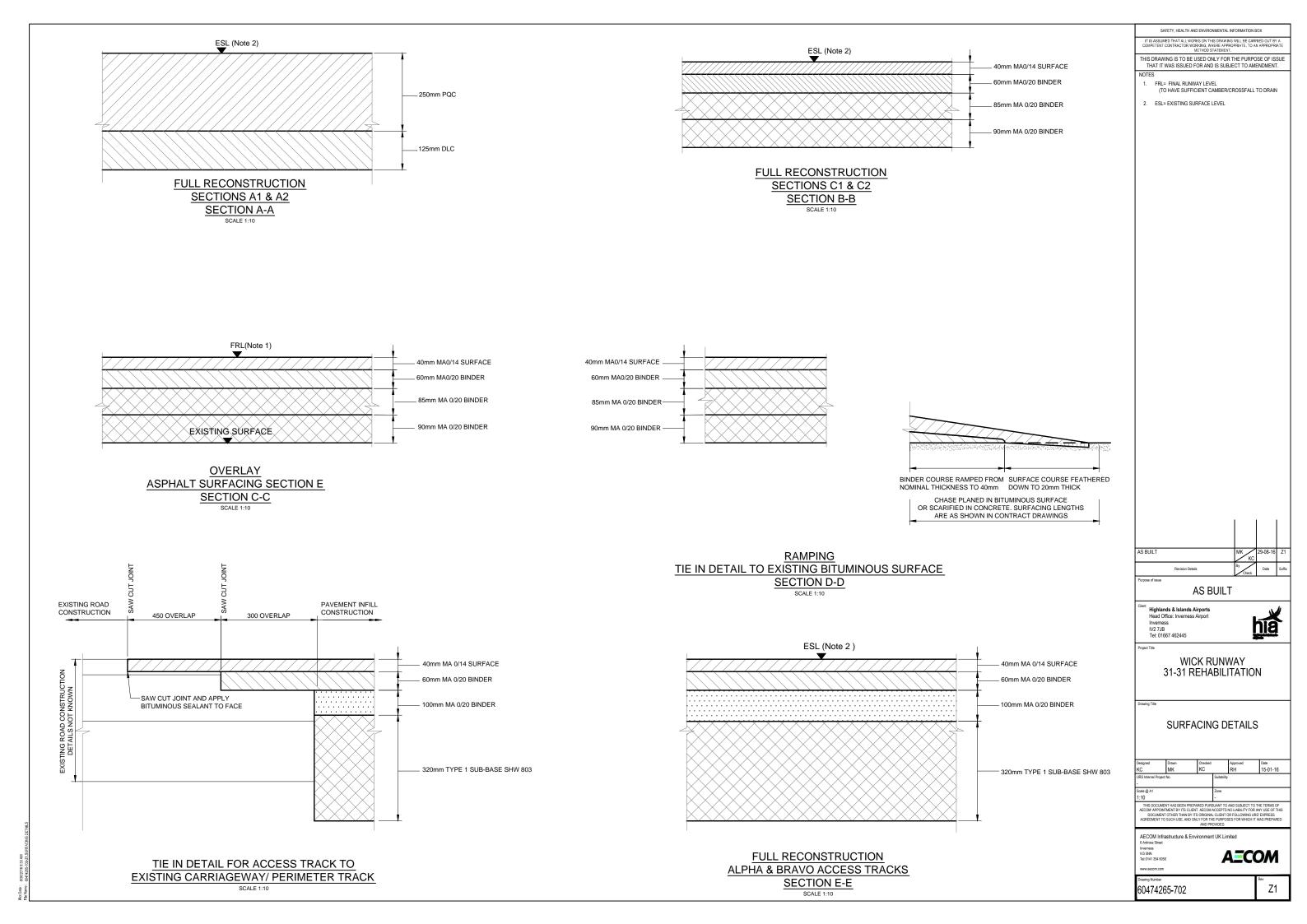
DE Specification 51 – Cement Bound Granular Material for Airfields (Dry Lean Concrete)

The above specifications set out the approach to construction including requirements for testing of materials and construction.

Testing has been undertaken on this basis and all results received have demonstrated that materials and construction are fully in accordance with the Specification. In addition, site inspections were undertaken over the contract duration to provide confirmation that works were completed satisfactorily. Contemporary logs, photos and records were also maintained throughout and are available for inspection.

The works were accepted by HIAL on 26 August 2016 and the airport has been handed back in a fully operational condition.





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We bring together economists, planners, engineers, designers and project managers to work on projects at every scale. We engineer energy efficient buildings and we build new links between cities. We design new communities and regenerate existing ones. We are the first whole environments business, going beyond buildings and infrastructure.

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