

George Hotel Huddersfield
Floor Removal for Temporary Staircase
Reference 2024-079-FR01
Wall Stability Statement

Prepared by	R.G Williams	Associate Director Structural Engineer	
Checked by	J.Lockley	Technical Director and CEM Rail	
Approved for issue	J.Lockley	Technical Director and CEM Rail	

Rev B – 4th August 2026

Statements added to Structural Information regarding temporary staircase design and wall stability.

Nolan Associates	Project George Hotel				Job Ref. 2024-079	
	Section Floor Removal for Temporary Staircase				Sheet no./rev. FR01-1 REV B	
	Calc. by RGW	Date 13/07/2026	Chk'd by JL	Date 13/07/26	App'd by JL	Date 13/07/26

Structural Information

The existing floors are in timber construction and span as shown below. They are supported by the solid masonry walls with one of the walls adjacent to the main stairwell as all down on SK01.

The existing staircase is currently in poor condition and required significant strengthening, as such access to the upper floors cannot be via these stairs. In order therefore to provide safe access to the upper floor a temporary HAKI Stair is proposed which is to be located as shown on SKs 02 to 06,

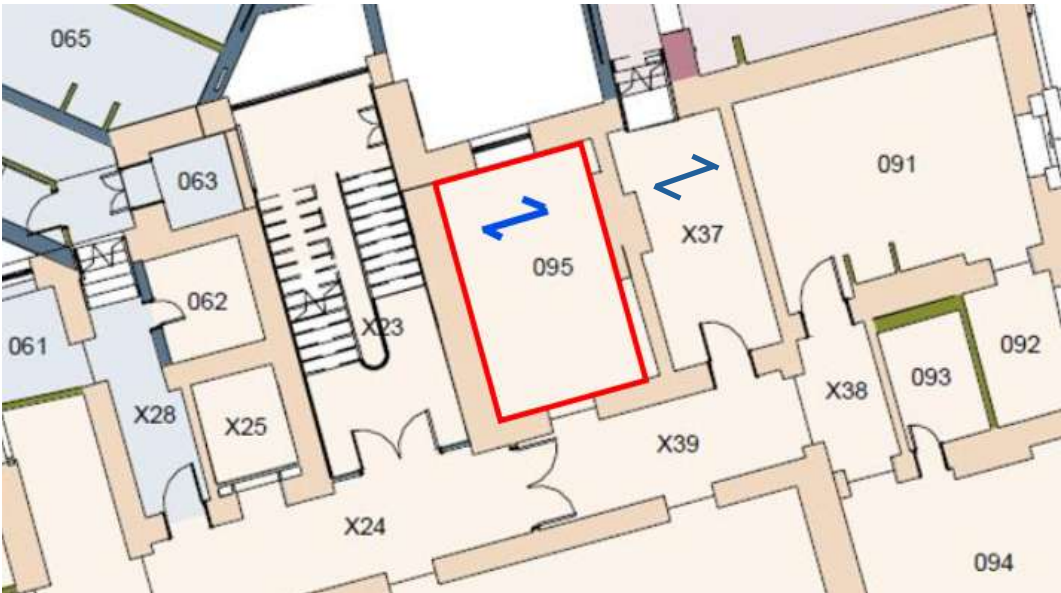
However, the installation of this temporary stair will result in part of the existing floors to be removed (stored for later reuse) would result in a section of the wall adjacent to the existing stairs to have an un-restrained height of circa 13m, obviously unacceptable. Therefore, to alleviate this it is proposed that the HAKI stair is fixed to both walls as shown in SK07, thus providing adequate lateral restraint.

Ties will be provided at existing floor levels, this ensures that the wall will behave as it has been originally designed and therefore will be no change to the stability of the wall as in its current construction prior to floor removal.

The HAKI staircase design TG30:24 compliance sheet has been provided to Nolan Associates, document reference CS/2461/1 designed by IBN Scaffold Access Ltd. The document contains design loads, tie loads and erection/usage requirements.

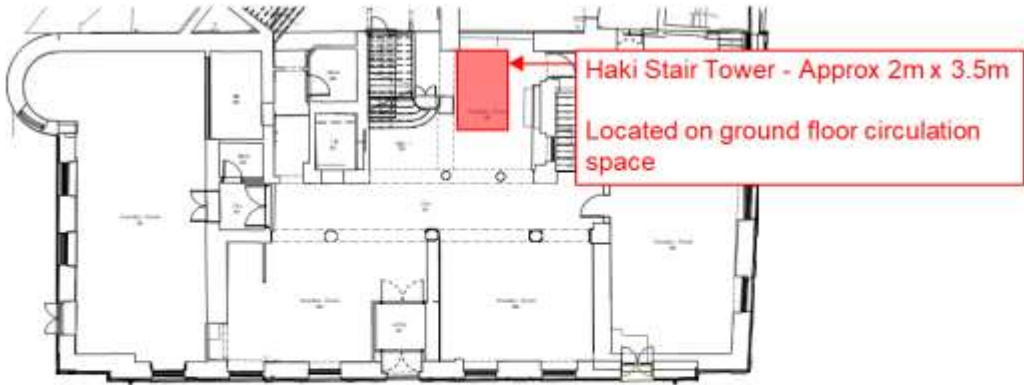
Pull tests will be carried out to determine bolt capacities and confirm the number of fixings required. The positioning of the ties will be reviewed by Nolan Associates prior to removal of the floors.

In conclusion, the wall adjacent to the existing staircase will be stable with the HAKI stair tied between both walls.



SK01 – Plan showing floor spans

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00 Level 00 - Existing Ground Floor Plan
1:100

SK02 – Existing Ground Floor Plan Showing Haki Stair Location



01 Level 01 - Existing First Floor Plan
1:100

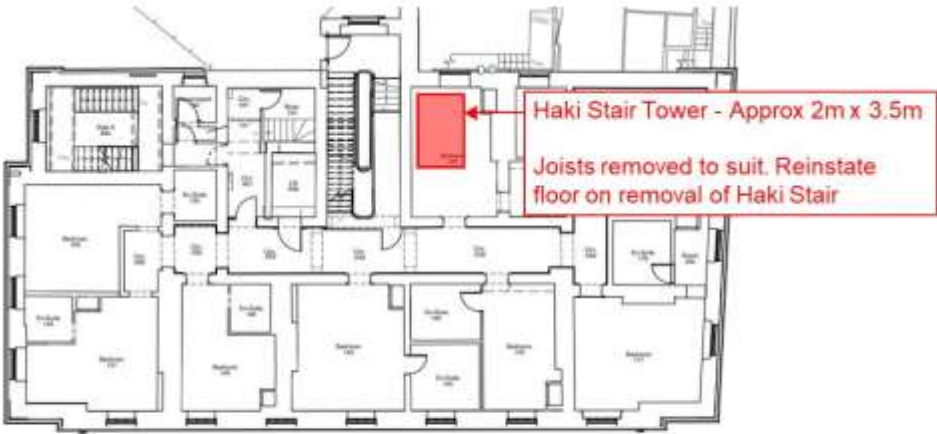
SK03 – Existing First Floor Plan Showing Haki Stair Location

Nolan Associates	Project				Job Ref.	
	George Hotel				2024-079	
	Section				Sheet no./rev.	
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	Calc. by	Date	Chk'd by	Date	App'd by	Date
	RGW	13/07/2026	JL	13/07/26	JL	13/07/26



02 Level 02 - Existing Second Floor Plan
1 : 100

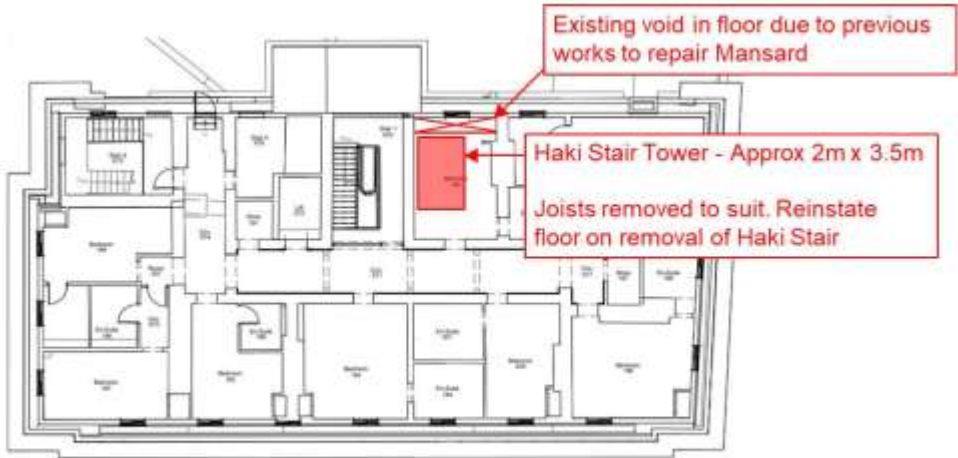
SK04 – Existing Second Floor Plan Showing Haki Stair Location



03 Level 03 - Existing Third Floor Plan
1 : 100

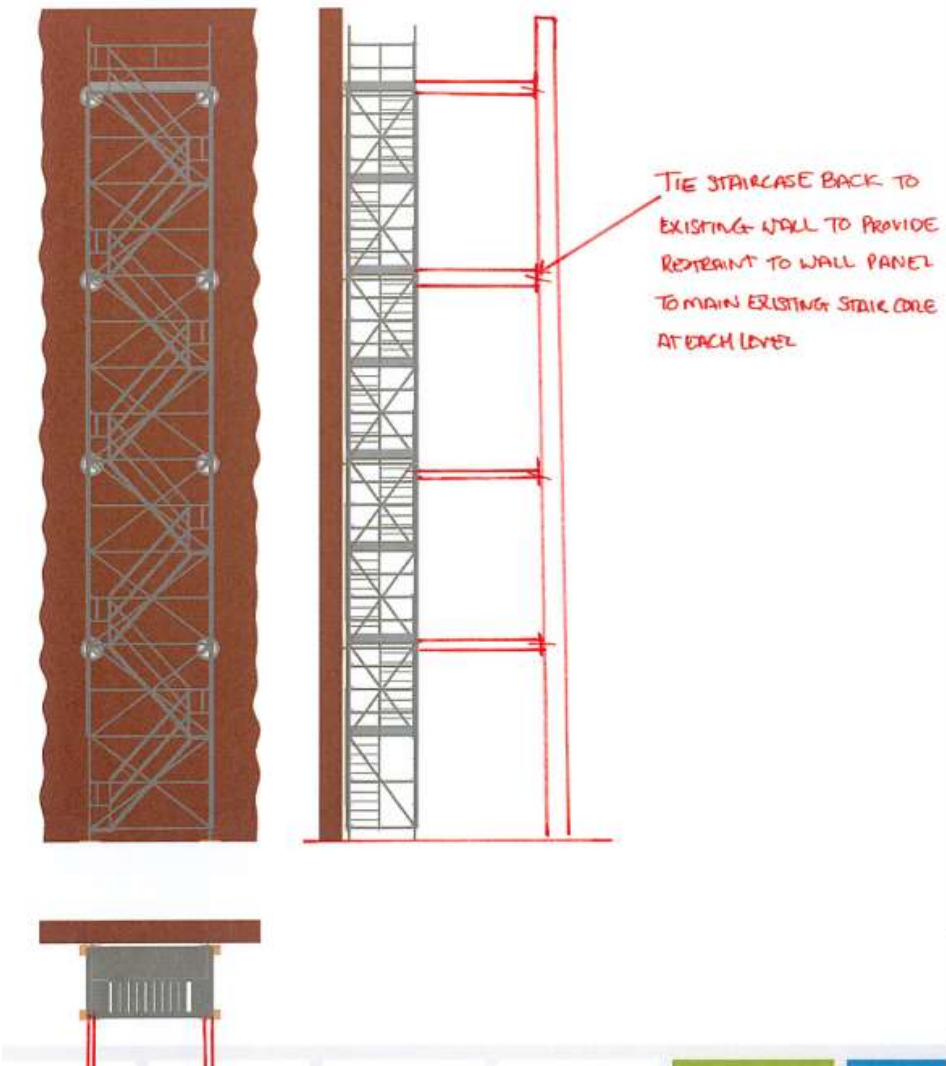
SK05 – Existing Third Floor Plan Showing Haki Stair Location

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	George Hotel				2024-079	
	Section				Sheet no./rev.	
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RGW	13/07/2026	JL	13/07/26	JL	13/07/26	



04 - Existing Fourth Floor Plan

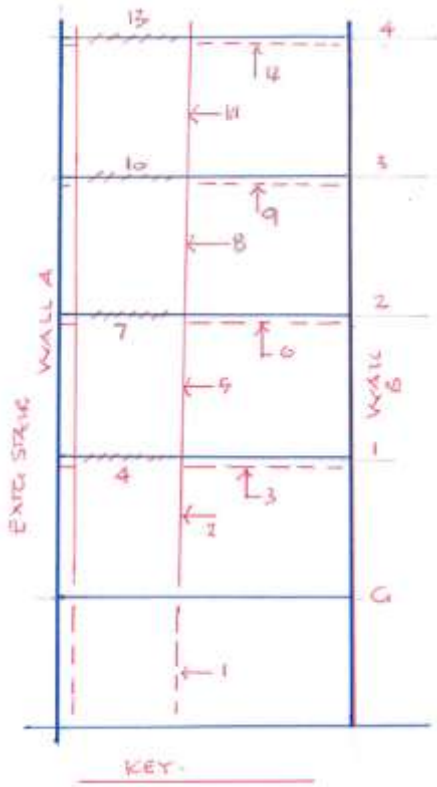
SK06 – Existing Fourth Floor Plan Showing Haki Stair Location



SK07 – Haki Stair Drawing and Fixing Proposal

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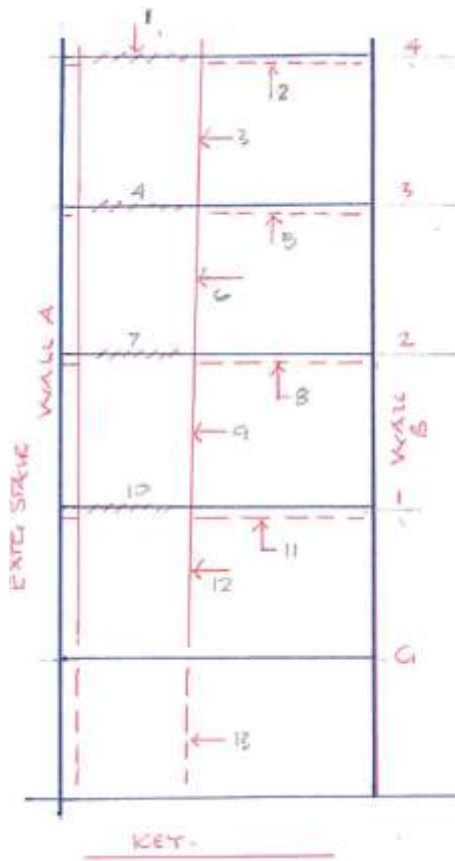
Proposed Sequence for the erection of the Temporary Stair



1. Install propose from basement to the underside of the ground floor required to provide support to the temporary stair
2. Erect stair to the underside of level 1 floor
3. At just under the soffit of the Level 1 floor install ties from temporary stair to walls A and B
4. Form opening in the Level 1 Floor
5. Erect the stair to the underside of Level 2 floor
6. At just under the soffit of the Level 2 floor install ties from temporary stair to walls A and B
7. Form opening in the Level 2 Floor
8. Erect the stair to the underside of Level 3 floor
9. At just under the soffit of the Level 3 floor install ties from temporary stair to walls A and B
10. Form opening in the Level 3 Floor
11. Erect the stair to the underside of Level 4 floor
12. At just under the soffit of the Level 4 floor install ties from temporary stair to walls A and B
13. Form opening in the Level 4 Floor

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Proposed Sequence for the Removal of the Temporary Stair



1. Infill and make good the floor at Level 4
2. Remove the ties from under the soffit of the Level 4 Floor
3. Dismantle the stair from Level 4 to Level 3
4. Infill and make good the floor at Level 3
5. Remove the ties from under the soffit of the Level 3 Floor
6. Dismantle the stair from Level 3 to Level 2
7. Infill and make good the floor at Level 2
8. Remove the ties from under the soffit of the Level 2 Floor
9. Dismantle the stair from Level 2 to Level 1
10. Infill and make good the floor at Level 1
11. Remove the ties from under the soffit of the Level 1 Floor
12. Dismantle the stair from Level 1 to Level G
13. Remove the temporary props