



Status: Released

Consultant: Campbell Glennie

Email: campbell.glennie@allegion.com

Prepared for:

GHD Ltd - Auckland**Sean Price****Sean.Price@ghd.com****307 7373****Current Door Hardware Schedule For:**

Waitomo District Council -WDC & I-Site/RWB1 Works

This schedule has been prepared on the basis of the following documentation:

Drawing Numbers:

- Partition Plan 12545999-AB200 Rev B
- Door Schedule 12545999-AB800 Rev B

Please note the following:

- This document is produced to support the plans for the project named above. This document is confidential and must not be used for any purpose other than for distribution to authorised Allegion distributors for the purpose of those distributors tendering to supply the project owner with the specified Allegion products.
- This hardware schedule is a preliminary 'NOT FOR CONSTRUCTION' issue.
- Hardware has been scheduled to suit standard doors (i.e. 32mm to 50mm thick). Unless specified, no allowance for fire doors of greater thickness than 48mm has been made.
- Locks and latches have been scheduled with standard strike plates. There is no information as to whether shortened or extended strike plates are required.
- Fire door manufacturer to review and confirm approval of scheduled hardware prior to supply. No allowance has been made for extended fixings to door closers as required by selected fire door manufacturers e.g. Pyropanel.
- All double timber doors have been assumed to have rebated meeting stiles, and as such rebate kits have been allowed for.
- We have scheduled standard backset locks & latches only for the timber doors on this project, please advise if any acoustically sealed doors require an extended backset.
- No allowance has been made for hinges, door seals or signage (apart from toilet symbols) as these are typically supplied by others.



DISCLAIMER

Documentation means the documentation specified in the facing page of this door hardware schedule.

Allegion means a door hardware product supplied by Us.

Other Product means a door hardware product that is not an Allegion Product.

We/Us/Our refers as appropriate to either or both of Allegion (New Zealand) Limited, a company registered in New Zealand and Allegion (Australia) Pty Limited ACN 077 898 166.

You means the client specified in the facing page of this door hardware schedule.

We have prepared the information in the door hardware schedule for You solely for the purpose of proposing door hardware suitable for the project. It is based on the Documentation You have provided to Us.

Where there is a change to the Documentation, or some other material change to the project, this may affect the suitability of the door hardware proposed. Where this applies, You should provide us with the revised Documentation, or written details of the material change to the project, as applicable, and ask Us to update the door hardware schedule.

Details in the door hardware schedule relating to Other Products are based on information contained in publicly available material supplied by the suppliers/manufacturers of Other Products. We make no representation as to the accuracy, currency or completeness of information provided by such sources. We have included details of Other Products in the door hardware schedule on the basis that You are responsible for making Your own assessment of the information provided and of the suitability of the Other Products.

While We have made all reasonable efforts to ensure that the information in the door hardware schedule is accurate, We will not accept any liability for any loss, damage, personal injury or death that may be incurred by any person acting in reliance upon it.

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ALLEGION

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Status: Released

Consultant: Campbell Glennie

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Door	Quantity	Product Code	Description	Door Type	Fire Rating	Finish
Area: Ground						
D01	1	HBO	Outside to Waiting Hardware Supplied By Door Manufacturer	DT15		
D02			Outside to Store Card reader,power supply and cable by security contractor	DT07		
	1	IRT881SSS	Legge 881 300mm Power Transfer		SSS	
	1	FEL990M	FSH FEL990M Monitored Electric Mortice Lock (990MFE)		SCP	
	1	Z990300/1	Legge 990/991 Standard Lock Cylinder SCP With 1 Cam		SCP	
	1	L6000/29S	Legge 6000/29 Alpha Latch Furniture		SCP	
	1	L6008S	Legge 6008 Cylinder Escutcheon		SCP	
	1	LCC25231	LCN 1461P Size 1-6 Regular Delayed Action FC Door Closer		ALUM	
	1	DAX13001SSS	Legge 13001 75mm Wall Mounted Concealed Fix Door Stop		SSS	
D03			Meeting Room to Store Card reader,power supply and cable by security contractor	DT03		
	1	IRT881SSS	Legge 881 300mm Power Transfer		SSS	
	1	FEL990M	FSH FEL990M Monitored Electric Mortice Lock (990MFE)		SCP	
	1	Z990300/1	Legge 990/991 Standard Lock Cylinder SCP With 1 Cam		SCP	
	1	L6000/29S	Legge 6000/29 Alpha Latch Furniture		SCP	
	1	L6008S	Legge 6008 Cylinder Escutcheon		SCP	
	1	LCC25231	LCN 1461P Size 1-6 Regular Delayed Action FC Door Closer		ALUM	
	1	DAX13001SSS	Legge 13001 75mm Wall Mounted Concealed Fix Door Stop		SSS	
D04			Store to Unisex WC	DT03		
	1	L9C33S	Legge 990/991 C33 60mm Backset Mortice Privacy Lock		SCP	
	1	L6000/29S	Legge 6000/29 Alpha Latch Furniture		SCP	
	1	L6054RINDS	Legge 6054 RH Indicating Disabled Turn Escutcheon		SCP	
	1	L6014S	Legge 6014 Indicating Emergency Release Escutcheon		SCP	
	1	LCC25189	LCN 4031 (524) Size 1-4 Regular Door Closer		ALUM	
	1	DAX13001SSS	Legge 13001 75mm Wall Mounted Concealed Fix Door Stop		SSS	
	1	DAX16271SSS	Legge 16271 Unisex Symbol		SSS	
D05			Reception to Store Door Track By Door Supplier	Cavity Slider		
	1	CL100A7010	Cavity Sliders CL100 Office Lock With Levers		SCP	
	2	KP860300SS	Kick Plate 300mm Screw Fixed (suit 860mm door width)		SSS	



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GHD Ltd

Fire Safety Report for
Alterations to the Te Kuiti Railway Station
Building, Rora Street, Te Kuiti

February 2023

Rev 3

Project Ref: 21-553

Fire Report ref: 21-553SB FSR

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- A Fire engineering drawings
- B Fire design coordination checklists
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1. Introduction

1.1 Definitions

BA2004: Building Act, 2004 (including latest amendments)

NZBC: New Zealand Building Code

C/ASx: Acceptable Solution Documents, NZBC Protection from Fire Clauses C1 – C6.

FENZ: Fire & Emergency New Zealand

FENZ-EU: FENZ Engineering Unit

BCA: Building Consent Authority

NZS: New Zealand Standard

ANARP: As Nearly As is Reasonably Practicable

Client: GHD Ltd

1.2 Disclaimer

This fire safety report has been prepared for the sole use of our Client, for the particular brief and on the terms and conditions agreed with our client. It may not be used or relied on (in whole or part) by anyone else, or for any other purpose or in any other contexts, without our prior written agreement.

1.3 Project Description

The Te Kuiti Railway Station Building containing the i-site information centre, office administration spaces and museum will undergo internal alterations.

The Railway Station Building comprises five buildings and structures as listed below. These buildings and structures are monitored by a common Type 6/7 fire alarm system. Refer to drawing FE-02 for site plan.

- Building 1: A standalone building – not affected by planned alterations and not included in fire report scope.
- Building 2: A standalone building – not affected by planned alterations and not included in fire report scope
- Building 3 & 4: Contain the museum, office spaces (Building 3) and the i-site information centre (Building 4). Buildings 3 and 4 are interconnected to allow occupant to move internally between these buildings.
- Building 5: Railway station platform canopy structure. Not affected by the works and not included in fire report scope of works.

This fire report is limited to assessment of the means of escape from fire for buildings 3 and 4.

Buildings 3 and 4 are single-level structures with multiple fire exits to outdoors with a calculated design occupancy rate of fewer than 50 people.

The buildings are monitored by a Type 7 system, which exceeds the building code requirement for a building of this size and Risk Group. IFE Ltd understands the Railway Buildings are heritage-listed and the Type 7 system has been installed to mitigate risk of total loss of the buildings in event of a fire.

The Railway Station Buildings has a MBIE fire risk score of 15. For a risk score of 15, MBIE recommends a gap assessment using the relevant Acceptable Solution document. A copy of the MBIE risk score is provided in Appendix C for information.

IFE Ltd has assessed the building 3 & 4 based on information supplied by GHD Ltd and conclude these buildings have a high level of compliance. Therefore, no specific fire safety improvement works are proposed for these buildings. The fire report scope of works will therefore address means of escape from fire provisions as it relates to the proposed alteration works.

1.4 Fire design methodology

The works are deemed alterations and therefore Section 112 of the Building Act (BA2004) will apply.

Section 112 of the BA2004 requires that the following building provisions be assessed for compliance with the NZBC as nearly as is reasonably practicable (ANARP)

- Means of escape from fire

The building activities are summarised below and forms the basis for determining the appropriate risk groups that will be used throughout the fire report.

Table 1.1

Space	Description of activity/use	Relevant Acceptable Solution Document & Risk Group [1]
Building 3	Museum with public access and office spaces for administration & meeting room functions	C/AS2 Risk Group CA & WB
Building 4	I-site information centre and office spaces	C/AS2 Risk Group CA & WB

Note

1. The primary Risk Group for buildings 3 & 4 will be 'CA' as the escape routes are shared by both Risk Groups, but permitted travel distances are more onerous for Risk Group CA.

The design basis for demonstrating compliance with the NZBC Clauses C1-C6 for Protection from fire is the Acceptable Solution document

C/AS2 Acceptable Solution for Buildings other than Risk Group SH 1st edition amendment 2, 2020 (C/AS2-2020)

1.4.1 IPENZ Practice Note 22 (PN-22) requirements

Ignite Fire Engineering Limited (IFE) has facilitated a coordination review by providing a coordination checklist for completion by the design Consultants to as evidence their design documents incorporates the requirements of this Fire Safety Report. The completed coordination checklists are provided in Appendix B as evidence the PN-22 requirements have been undertaken.

2. Scope of works

The following scope of works shall be included in consent design documents to ensure the means of escape from fire provisions of the building continue to comply ANARP following completion of the alterations.

2.1 Means of escape

2.1.1 Egress Routes

Provide unobstructed escape route width of 850mm in horizontal open paths and a minimum of 1000mm on ramps and external steps. The existing ramp/steps complies.

The ramp and step width requirement includes a handrail providing that the handrail does not protrude more than 100mm into ramp/step width and a clear width of 900mm is provided between handrail and wall or second handrail. Comply with NZBC Acceptable Solution document D1/AS1 for stairs and handrails where these are modified as part of the alterations.

The minimum egress width specified above is for fire evacuation purposes only where all occupants are travelling in the same direction. For practical and functional reasons, the actual width of routes may need to be wider.

Placement of office furniture and product displays shall take into consideration the above open path egress width requirements.

2.2 Doors

2.2.1 General

Doors within escape routes shall have a clear opening width of no less than 760mm. This dimension is clear opening width when the door is open to 90°. The width of door leaf to achieve the stated clear opening width depends on thickness of door leaf and jamb profile.

Door swings: Doors within fire escape routes and final exit doors can open inwards or outwards as they serve fewer than 50 people.

The manual slide door in the reception back-of-house staff area shall provide a minimum of 600mm clear open width and is acceptable within a single fire escape route that is not an accessible route.

Fire exit doors normally secured close whilst the building is lawfully occupied shall be fitted with simple fasteners or panic fasteners. The door hardware shall be easily operated by occupants approaching door in direction of escape without need for a security device (key, manual slide bolt, swipe card or keypad code).

Ensure access control devices on doors within designated escape routes and final exits are;

- Clearly visible, located where such device would normally be expected.
- Easily operated without a key or other security device

- Allow the door to open in the normal manner.
- Not prevent or override the direct operation of any panic bolts fitted to the door
- If the door is fitted with an electromechanical device, in event of power failure or malfunction either;
 - Automatically switch to the unlocked (failsafe) condition
 - Be readily opened by an alternative method satisfying the requirements specified above.

2.2.2 Signs

Modify exit sign locations as required to suit the alterations to maintain compliance with the latest edition of NZBC Acceptable Solution document F8/AS1 to identify escape routes from the building.

The exit sign locations on the fire engineering drawing show the main escape routes from the building but does not show all exit signs necessary for compliance or consider line-of-sight obstructions cause by shelving etc.

Exit signs must be illuminated in compliance with F8/AS1 where visibility in escape route lighting is required in the building.

2.2.3 Visibility in escape routes

Modify the visibility in escape route lighting to suit the alterations to maintain compliance with the latest edition of NZBC Acceptable Solution document F6/AS1.

The visibility in escape route lighting areas shown on the fire engineering drawing are approximate for means of escape purposes but does not show all areas necessary for compliance.

The lighting designer shall coordinate visibility in escape route lighting with exit signs locations if reflective signs are used to ensure the exit sign illuminated in accordance with F8/AS1 requirements.

2.3 Active Fire Protection Systems

2.3.1 Type 7 System

Building 3 & 4 are equipped with a Type 7 system. The Type 7 system shall be retained and modified to suit the alterations. The manual call point and smoke detector changes shall comply with NZS 4512:2010. Fire sprinkler changes shall comply with NZS 4541:2013.

Provide instruction signs with manual call points to F8/AS1 Section 5 requirements.

Retain existing fire alarm functionality and fire mode operation of ancillary systems where installed.

2.4 Passive Fire Protection Systems

2.4.1 Firecell

Building 3 & 4 and the Railway station platform canopy (Building 5) are a single firecell. There is no requirement for internal fire and smoke separations.

2.5 Internal surface finishes

The reaction-to-fire properties for new internal surface linings installed into building 3 & 4 such as ceiling & wall linings and floor coverings shall comply with the NZBC. The internal surface linings performance requirements are listed below.

Buildings 3 & 4 have an importance Level of 2 and is fire sprinkler protected.

Table 2.2

Surface	Performance requirements
Wall linings	< 3 (all spaces)
Ceiling linings	≤ 2 (All spaces)
Internal surfaces of HVAC ducts	≤ 2
External surfaces of HVAC ducts, acoustic treatment, and pipe insulation	≤ 3 (all spaces)
Area of building	Minimum radiant heat flux (kW/m ²)
Minimum radiant heat flux for floor surface material	> 2.2kW/m ² (All spaces)
Area of building	Minimum Flammability Index (FI)
Flexible fabric - suspended:	FI ≤ 12
Flexible fabric - underlay to roof/walls exposed to view	FI ≤ 5
Flexible fabric - membrane structures	FI ≤ 12

Interior surface lining materials selected during construction shall first be reviewed and accepted by the project Architect for compliance with this fire report before installation.

2.5.1 Foam plastic building materials

Where foam plastic building materials are specified for use in walls or ceilings the building the foam plastic product supplier shall provide evidence of compliance with the requirements of Clause 4.17.2.

The applicable Group Number rating is 2.

Foamed plastics and combustible insulating materials

4.17.2 If *foamed plastics building materials* or *combustible insulating materials* form part of a wall or ceiling system, the completed system shall achieve a *Group Number* as specified in Table 4.3 and the *foamed plastics* shall comply with the flame propagation criteria as specified in AS 1366 Parts 1–4 for the material being used. This requirement does not apply to *building elements* listed in Paragraph 4.17.6.

Note that Clause 4.17.2 for control of foam plastic building materials only applies to wall and ceiling systems.

2.6 External spread of fire control

Not required to be assessed for compliance under Section 112 of the BA2004.

2.7 Fire Fighting

A Not required to be assessed for compliance under Section 112 of the BA2004.

2.8 Outbreak of fire control**2.8.1 Electrical fire safety**

Comply with NZBC Clause G9.

2.9 Additional Requirements**2.9.1 Evacuation plan**

The existing evacuation scheme for the building shall be reviewed and updated as required to account for the altered building layout. The building owner shall be responsible for reviewing/updating the evacuation scheme. This is a requirement under the Fire Safety and Evacuation of Building Regulations 2018. Display evacuation notices throughout the building to detail the escape routes and assembly areas for building occupants in event of fire emergency. Where fire extinguishers are installed in support of an evacuation scheme the authorised persons designated to operate hand-held fire-fighting equipment shall be provided with adequate training when it is safe to fight fires and the safe use of the hand-held firefighting equipment.

2.9.2 Compliance Schedule

Section 100, sub-clause 2 of the BA2004 requires that a building containing a specified system must have a Compliance Schedule. The fire safety systems specified in this fire report for building 3 and 4 will be modified as listed below.

The specified systems affected by the alterations are:

- SS-1 Fire sprinkler system (MODIFIED)

- SS-2 Fire detection and alarm system (MODIFIED)
- SS-4 Visibility in escape routes (MODIFIED)
- SS-14/2 Signs for specified systems (NO CHANGE)
- SS 15/2 Final exits (NO CHANGE)
- SS-15/4 Exit signs (MODIFIED)

2.9.3 Construction Monitoring

The following is a recommended minimum level of construction phase monitoring for works relating to the fire safety features that is considered appropriate to enable the BCA to confirm that the consented fire safety report scope of works have been constructed to the required performance standards.

- Observation and inspection of works: Recommended level of inspection; equivalent to CM1 level.
- Contractor shall provide the following documents
 - PS-3 statement to certify the changes to the fire detection and alarm component of the Type 7 system comply with NZS 4512:2010.
 - Independent certification if Clause 112.7 of NZS 4541:2013 applies otherwise a PS-3 statement of compliance from installer the fire sprinkler system modifications comply with NZS 4541:2013.
 - PS-3 from visibility in escape route lighting designer/installer that modifications to lighting system complies with F6/AS1
 - PS-3 from fire exit sign designer/installer that modifications to exit sign locations complies with F8/AS1
- Statement from Builder that installed interior linings comply with consented design documents as it relates to the materials reaction-to-fire properties.

3. General Requirements

3.1 Purpose of Report

The purpose of this report is to determine the fire safety features that must be provided for compliance with Section 112 of the New Zealand Building Act 2004 for alterations, which states,

112 Alterations to existing buildings

- (1) A building consent authority must not grant a building consent for the alteration of an existing building, or part of an existing building, unless the building consent authority is satisfied that, after the alteration,—
- (a) the building will comply, as nearly as is reasonably practicable, with the provisions of the building code that relate to—
- (i) means of escape from fire; and
 - (ii) access and facilities for persons with disabilities (if this is a requirement in terms of section 118);

Compliance with the BA2004 will be by way of the NZBC Clauses C1 – C6 Protection from fire using the relevant Acceptable Solution document ANARP.

The fire report form part of the building documentation and should be retained by the building owner for future reference should the building undergo alterations or change of use.

3.2 Requirement for the FENZ DRU Review

Pursuant to section 46(1) of the Building Act 2004, Gazette Notice No. 49/2012 states that copies of the following kinds of application for a building consent must be provided to the New Zealand Fire Service Commission where:

Part 2

- a) compliance with clauses C1-6, D1, F6 or F8 of the Building Code will be established other than by compliance with the provisions of an applicable compliance document; or*
- b) that involves a modification or waiver of clauses C1-6, D1, F6 or F8 of the Building Code, under section 67 of the Building Act 2004; or*
- c) that involves an alteration, change in use or subdivision and affects the fire safety systems, including any building work on a specified system relating to fire safety, except where the effect on the fire safety system is minor.*

Part 3

These requirements do not apply to an application for a building consent for building work to be carried out in respect of:

- a) single household units;*
- b) buildings in which every fire-cell is a household unit separated vertically from the other fire-cells and each fire-cell has independent and direct egress to a safe place outside the building;*
- c) an internal fit-out, unless the fit-out relates to a change of use under clause 2(c);*

d) outbuildings or ancillary buildings.

Parts 2 c) applies where the effect on the fire safety systems is considered minor, therefore the **BCA is not required** to send a copy of this fire safety report to the NZFS-DRU.

3.3 Assumptions & Limitations

The following assumptions and limitations apply to this report.

- Unless specifically stated otherwise, the report does not address accessible facilities, evacuation procedures or compliance with the Health & Safety at Work (Hazardous Substances) Regulations 2017.
- Any significant changes to the proposed building design as described in the referenced documents will be referred to the fire report author for review before acceptance or implementation.
- The documentation supplied, upon which this fire safety design is based, is assumed to be accurate with regard to the final as-constructed condition of the building. No liability is taken for the accuracy of the supplied documentation that forms the basis of this report.
- The fire report has been prepared for the Client and is based on the design drawings referenced in this fire report and is intended to form part of a submission for building consent. IFE Ltd takes no responsibility and accepts no liability for use of this report by any other party for any other purpose.
- The Architect and discipline-specific Engineers are primarily responsible to ensure their designs comply with the requirements of this fire safety report.

3.4 Fire Safety Assessment Documentation

The following documents were used as the basis for the fire safety assessment and shall be read in conjunction with this report.

Table 3.1

Document	Description	Revision
SK-2 CONCEPT PLAN	RAILWAY STATION BUILDING – PROPOSED FLOOR PLAN	20-9-2022

4. Conclusion

This fire report has assessed building 3 and 4 means of escape from fire compliance with the NZBC C1-C6 Protection from Fire Clauses ANARP. IFE Ltd is satisfied on reasonable grounds that the fire report scope of works satisfies the requirements of Section 112 of the BA2004 for the proposed extent of alterations providing that the fire report scope of works is implemented in full.

Appendix A




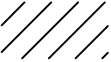
Fire engineering drawings

21-553SB FE-01: General Notes & Legend

21-553SB FE-02: Building 3 AND 4 means of escape from fire requirements.

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0		Issued for consent	IFE	GJS	-	09-22

LEGEND

Symbols	Description
	Exit sign
	Exit sign with directional arrow
	Escape routes
	Emergency lighting coverage for visibility in escape routes

General Notes

1. Exit signs shall comply with the latest edition of the NZBC Acceptable Solution Document F8/AS1.
2. Extent of emergency lighting for visibility in escape routes shown on drawing is approximate only. The visibility in escape route lighting shall comply with the latest edition of the NZBC Acceptable Solution Document F6/AS1.
3. The egress routes shown on the floor plans are intended to demonstrate compliance with the NZBC for egress from most remote part of floor. These egress routes may not be the only routes available. Exit signage locations identifies the designated fire egress routes.

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FIRE SAFETY SYSTEMS NOMENCLATURE

- Type 1 domestic smoke alarm (means of compliance: NZBC Acceptable solution F7/AS1 or NZS 4514:2009)
- Type 2 system: Fire alarm system with manual call points (Standard: NZS 4512)
- Type 3 system: Fire alarm with heat detectors & manual call points (Standard: NZS 4512)
- Type 4 system: Fire alarm system with smoke detectors & manual call points (Standard: NZS 4512)
- Type 5 system: Enhance fire alarm system with local smoke detector alert in sleeping areas and smoke detectors and manual call point for building-wide alarm in common areas.(Standard: NZS 4512). Mechanical extract ventilation of kitchen stove is mandatory with Type 5 installation.
- Type 6 system: Automatic fire sprinkler system.(Standard: NZS 4541 or NZS 4515:2009)
- Type 7 system: Automatic fire sprinkler system & fire alarm system with smoke detectors and manual call points.(Standard: NZS 4512 & NZS 4541 or NZS 4515:2009)
- Type 9 system: Smoke control in air-handling system.(Standard: AS/NZS 1668.1)
- Type 18 system: Building fire hydrant system. (Standard NZS 4510)

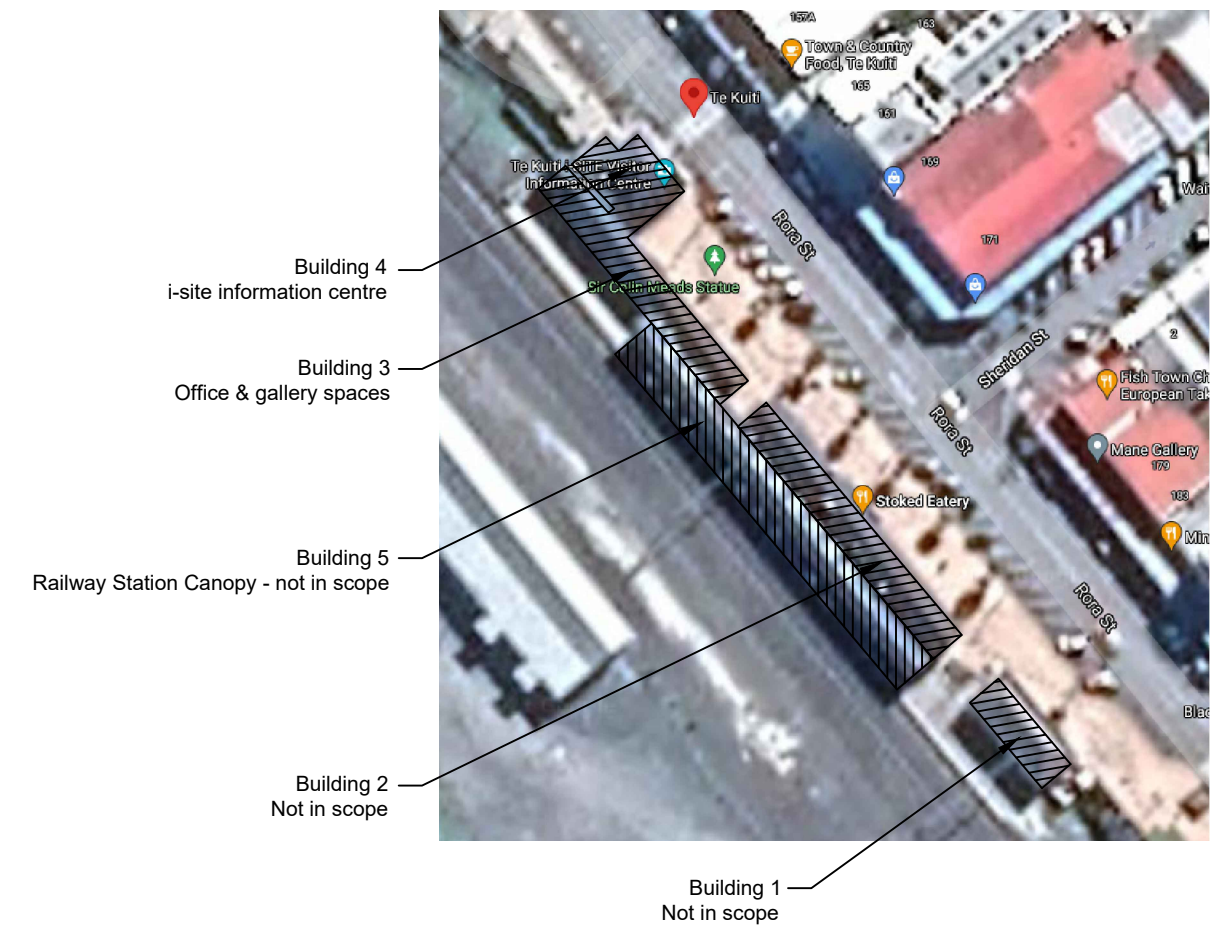


FIRE ENGINEERING
GENERAL NOTES & LEGEND

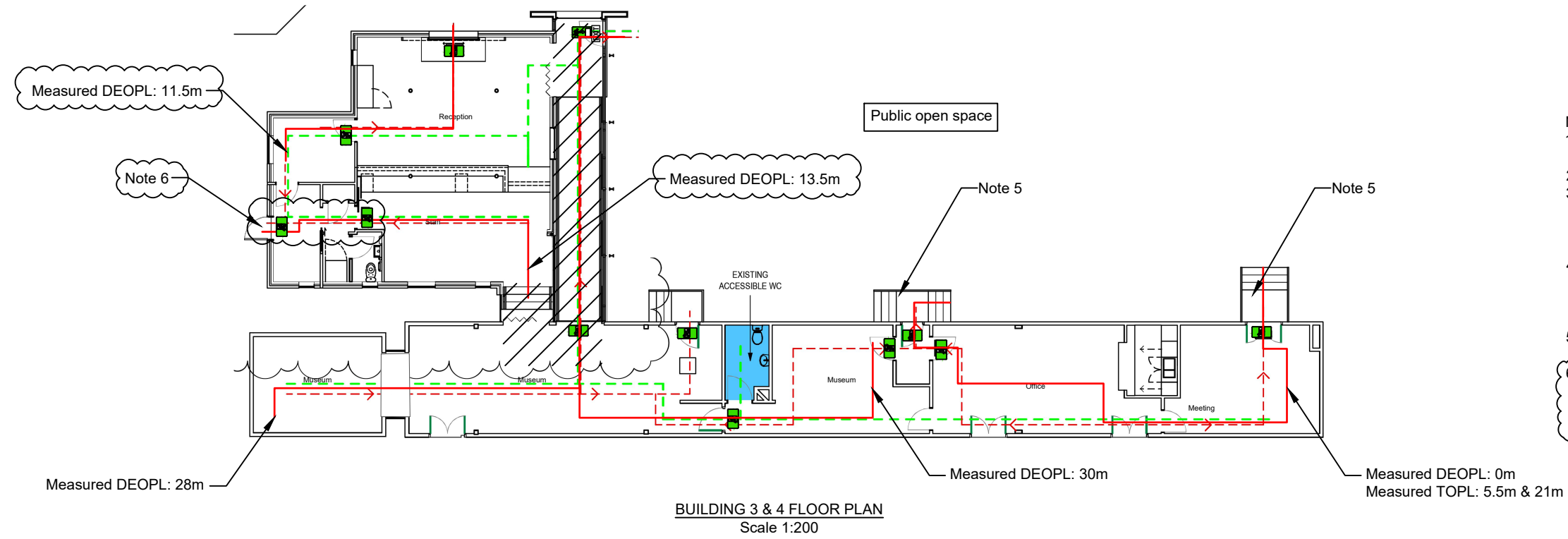
WAITOMO DISTRICT COUNCIL
ALTERATIONS TO TE KUITI RAILWAY
STATION BUILDING, RORA STREET,
TE KUITI
21-553 FE-01 Rev 1
Date: 21 September 2022

Te Kuiti Railway Building
 Risk Group: CA (i-site/retail, museum), WB (administration office)
 Total floor area of largest firecell (whole building): 283m²
Occupancy rates
 i-site reception/retail: 35m²/3.5 = 10; Meetings rooms: 29.5m²/2.5 = 12; Office: 52m²/10 = 5; Museum: 90m²/4 = 23;
 Total occupancy rate for building: 10 + 12 + 23 = 45.
Firecell
 Escape height: < 4m
 Life rating: 30 minutes
 Property rating: 60 minutes
Fire Safety Precautions (FSP)
 Installed FSP: Type 7 system
Fire escape routes
 Permitted DEOPL: 50m (CA)
 Permitted TOPL: 120m (CA)

NEW INTERIOR LININGS REACTION-TO-FIRE PROPERTIES
Building Importance Level 2 & sprinkler-protected
Group Number ratings
 Wall linings (all spaces): 3
 Ceiling linings (all spaces): 2
 HVAC systems - internal surfaces: 2
 HVAC system, pipe & acoustic insulation (all other spaces): 3
Critical radiant heat flux
 Floor coverings: > 1.2kWm²
Flammability Index (FI)
 Flexible fabric - suspended: FI ≤ 12
 Flexible fabric - underlay to roof/walls & exposed to view: FI ≤ 5
 Flexible fabric - membrane structures: FI ≤ 12



LOCALITY PLAN
 (Buildings/structures protected by Type 7 system)
 N.T.S



BUILDING 3 & 4 FLOOR PLAN
 Scale 1:200

- Notes**
1. This drawing shall be read in conjunction with the fire safety report ref: 21-553SB FSR.
 2. Refer to drawing FE-01 for general notes and legend.
 3. Retain the Type 7 system. Modify smoke detector locations to suit the alterations to maintain compliance with NZS 4512:2010. Modify sprinkler head locations to suit the alterations to maintain compliance with NZS 4541:2013.
 4. Maintain a minimum of 850mm width along fire escape routes to fire exits and 1000mm on ramps and external steps. Location of furniture, displays and fixed equipment shall take into consideration this egress width requirement.
 5. Ensure external fire escape steps comply with latest edition of NZBC Acceptable Solution document D1/AS1 for provision of one handrail.
 6. Provide 'free-handle' lever or panic bar fastener hardware on fire exit door. Ensure the threshold step across this exit does not exceed 20mm and area immediately outside this fire exit is kept clear at all times. Install warning sign outside fire exit door if necessary.

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	<p>FIRE ENGINEERING BUILDING 3 & 4 MEANS OF ESCAPE FROM FIRE REQUIREMENTS</p>	<p>WAITOMO DISTRICT COUNCIL ALTERATIONS TO TE KUITI RAILWAY STATION BUILDING, RORA STREET, TE KUITI 21-553 FE-02 Rev 2 Date: 09 February 2023</p>
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Appendix B

Fire design coordination checklists

Appendix C

MBIE Risk Score

Project No: 21-553SB
Building: Te Kuiti Railway Station Building
Building use: Administration offices i-site, gallery/museum

Building Score Sheet			Comments
Key factors	Points	Score	
Building Age			
Approved from 1 June 2001 onwards	0		
Approved between 1 January 1993 and 31 May 2001	1		
Approved on or before 31 December 1992	3	3	Heritage listed building
Historical information on building fire safety			
For buildings approved from 1 June 2001: no consents	0		
Full assessment on file dated 1 June 2001 or later	2		
Full building assessment on file dated on or before 31 May 2001	4		
One or more partial building assessments on file	6		
No assessment on file for building additions or alterations	8	8	No previous fire safety report sighted
Unable to determine history of building	8		
Extent of proposed building works			
Minor	0	0	Internal fit-out only
Moderate	3		
Significant	6		
Building importance level			
Level 1	0		
Level 2	4	4	Normal risk
Level 3	8		
Level 4 & Level 5	12		
Additional points if building contains sleeping	4		
TOTAL SCORE TO USE WITH TABLE 1		15	

Table 1 Recommended assessment methodology

Methodology	Score
List of fire safety features & statement of change	0-11
Gap assessment using appropriate Acceptable Solution document	12-19
Full assessment using relevant Acceptable solution or relevant parts of the C/VM2 and other Acceptable Solutions	20 +

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Rev No.	Author	Approved for Issue		
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3	Glyn Struthers	G J Struthers		09/02/2023