

Initial Evaluation Procedure (IEP) Assessment - Completed for Hutt City Council

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Street Number & Name:	21 Meachen Street	Job No.:	5-C3957.00
AKA:		By:	GSF
Name of building:	Animal Services	Date:	10/12/2019
City:	Seaview, Hutt City	Revision No.:	0

Table IEP-1 Initial Evaluation Procedure Step 1

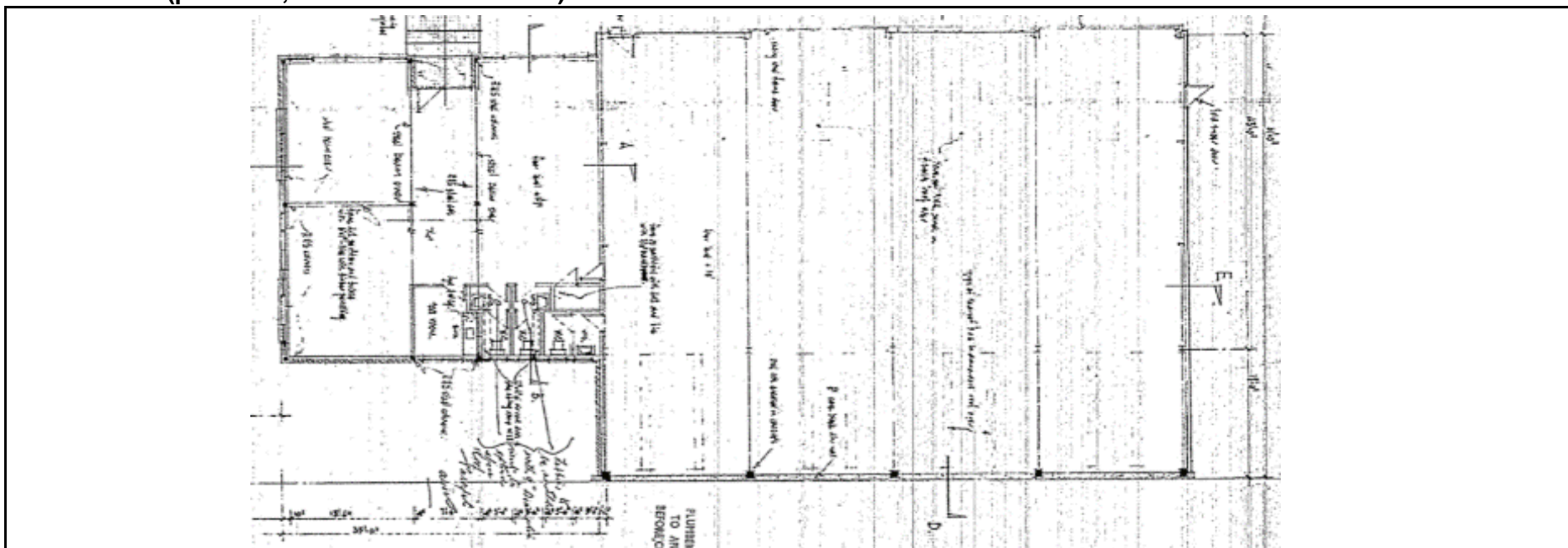
Step 1 - General Information

1.1 Photos (attach sufficient to describe building)



NOTE: THERE ARE MORE PHOTOS ON PAGE 1a ATTACHED

1.2 Sketches (plans etc, show items of interest)



1.3 List relevant features (Note: only 10 lines of text will print in this box. If further text required use Page 1a)

Structure: Front - timber framed structure with braced walls and brick veneer cladding with ties. Rear - portal frames with cross bracing

Foundations: Front - concrete foundation wall and piles supporting timber subfloor. Rear - concrete slab on grade with reinforced concrete pads and foundation beams

Roof: Lightweight cladding, super six roofing over portal structure has been replaced

Subsoil: E soft or deep soils - NZS1170.5:2004 Site Subsoil Classification of Lower Hutt

Construction Date: 1968

1.4 Note information sources

Tick as appropriate

- Visual Inspection of Exterior
- Visual Inspection of Interior
- Drawings (note type)

- Specifications
- Geotechnical Reports
- Other (list)

Information Reviewed: Original Design Drawings 1968

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Table IEP-2 Initial Evaluation Procedure Step 2

Step 2 - Determination of (%NBS)_b

(Baseline (%NBS) for particular building - refer Section B5)

2.1 Determine nominal (%NBS) = (%NBS)_{nom}

a) Building Strengthening Data

Tick if building is known to have been strengthened in this direction

If strengthened, enter percentage of code the building has been strengthened to

Longitudinal

Transverse

N/A

N/A

b) Year of Design/Strengthening, Building Type and Seismic Zone

- Pre 1935
- 1935-1965
- 1965-1976
- 1976-1984
- 1984-1992
- 1992-2004
- 2004-2011
- Post Aug 2011

- Pre 1935
- 1935-1965
- 1965-1976
- 1976-1984
- 1984-1992
- 1992-2004
- 2004-2011
- Post Aug 2011

Building Type: Others

Building Type: Others

Seismic Zone: Zone A

Seismic Zone: Zone A

c) Soil Type

From NZS1170.5:2004, CI 3.1.3 :

E Very Soft Soil

E Very Soft Soil

From NZS4203:1992, CI 4.6.2.2 :
(for 1992 to 2004 and only if known)

Not applicable

Not applicable

d) Estimate Period, T

Comment:

h_n = 7
A_c = 1.00

7 m
1.00 m²

- Moment Resisting Concrete Frames: $T = \max(0.09h_n^{0.75}, 0.4)$
- Moment Resisting Steel Frames: $T = \max(0.14h_n^{0.75}, 0.4)$
- Eccentrically Braced Steel Frames: $T = \max(0.08h_n^{0.75}, 0.4)$
- All Other Frame Structures: $T = \max(0.06h_n^{0.75}, 0.4)$
- Concrete Shear Walls: $T = \max(0.09h_n^{0.75}/A_c^{0.5}, 0.4)$
- Masonry Shear Walls: $T \leq 0.4\text{sec}$
- User Defined (input Period):

Where h_n = height in metres from the base of the structure to the uppermost seismic weight or mass.

T: 0.40

0.60

e) Factor A: Strengthening factor determined using result from (a) above (set to 1.0 if not strengthened)

Factor A: 1.00

1.00

f) Factor B: Determined from NZSEE Guidelines Figure 3A.1 using results (a) to (e) above

Factor B: 0.06

0.06

g) Factor C: For reinforced concrete buildings designed between 1976-84 Factor C = 1.2, otherwise take as 1.0.

Factor C: 1.00

1.00

h) Factor D: For buildings designed prior to 1935 Factor D = 0.8 except for Wellington and Napier (1931-1935) where Factor D may be taken as 1.0, otherwise take as 1.0.

Factor D: 1.00

1.00

(%NBS)_{nom} = Ax BxCxD

(%NBS)_{nom} 6%

6%

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Table IEP-2 Initial Evaluation Procedure Step 2 continued

2.2 Near Fault Scaling Factor, Factor E

If $T \leq 1.5\text{sec}$, Factor E = 1

a) Near Fault Factor, $N(T,D)$

(from NZS1170.5:2004, Cl 3.1.6)

Longitudinal

Transverse

N(T,D):

b) Factor E

= $1/N(T,D)$

Factor E:

2.3 Hazard Scaling Factor, Factor F

a) Hazard Factor, Z, for site

Location: Refer right for user-defined locations

Z = (from NZS1170.5:2004, Table 3.3)

Z₁₉₉₂ = (NZS4203:1992 Zone Factor from accompanying Figure 3.5(b))

Z₂₀₀₄ = (from NZS1170.5:2004, Table 3.3)

b) Factor F

For pre 1992

= $1/Z$

For 1992-2011

= Z_{1992}/Z

For post 2011

= Z_{2004}/Z

Factor F:

2.4 Return Period Scaling Factor, Factor G

a) Design Importance Level, I

(Set to 1 if not known. For buildings designed prior to 1965 and known to be designed as a public building set to 1.25. For buildings designed 1965-1976 and known to be designed as a public building set to 1.33 for Zone A or 1.2 for Zone B. For 1976-1984 set I value.)

I =

b) Design Risk Factor, R_o

(set to 1.0 if other than 1976-2004, or not known)

R_o =

c) Return Period Factor, R

(from NZS1170.0:2004 Building Importance Level)

Choose Importance Level

1 2 3 4

1 2 3 4

R =

d) Factor G

= IR_o/R

Factor G:

2.5 Ductility Scaling Factor, Factor H

a) Available Displacement Ductility Within Existing Structure

Comment:

Steel frames with cross bracing

μ =

b) Factor H

For pre 1976 (maximum of 2)
For 1976 onwards

= k_μ
= 1.50
= 1

k_μ
1.80
1

Factor H:

(where k_μ is NZS1170.5:2004 Inelastic Spectrum Scaling Factor, from accompanying Table 3.3)

2.6 Structural Performance Scaling Factor, Factor I

a) Structural Performance Factor, S_p

(from accompanying Figure 3.4)

Tick if light timber-framed construction in this direction

S_p =

b) Structural Performance Scaling Factor

= $1/S_p$

Factor I:

Note Factor B values for 1992 to 2004 have been multiplied by 0.67 to account for S_p in this period

2.7 Baseline %NBS for Building, (%NBS)_b

(equals (%NBS)_{nom} x E x F x G x H x I)

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Table IEP-3 Initial Evaluation Procedure Step 3

Step 3 - Assessment of Performance Achievement Ratio (PAR)

(Refer Appendix B - Section B3.2)

a) Longitudinal Direction

potential CSWs	Effect on Structural Performance (Choose a value - Do not interpolate)	Factors
3.1 Plan Irregularity Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		Factor A 1.0
3.2 Vertical Irregularity Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		Factor B 1.0
3.3 Short Columns Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		Factor C 1.0
3.4 Pounding Potential (Estimate D1 and D2 and set D = the lower of the two, or 1.0 if no potential for pounding, or consequences are considered to be minimal)		

a) Factor D1: - Pounding Effect

Note:
 Values given assume the building has a frame structure. For stiff buildings (eg shear walls), the effect of pounding may be reduced by taking the coefficient to the right of the value applicable to frame buildings.

Factor D1 For Longitudinal Direction: 1.0

Table for Selection of Factor D1	Severe 0<Sep<.005H	Significant .005<Sep<.01H	Insignificant Sep>.01H
Alignment of Floors within 20% of Storey Height	<input type="radio"/> 1	<input type="radio"/> 1	<input checked="" type="radio"/> 1
Alignment of Floors not within 20% of Storey Height	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input type="radio"/> 0.8

Comment: Nil

b) Factor D2: - Height Difference Effect

Factor D2 For Longitudinal Direction: 1.0

Table for Selection of Factor D2	Severe 0<Sep<.005H	Significant .005<Sep<.01H	Insignificant Sep>.01H
Height Difference > 4 Storeys	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input checked="" type="radio"/> 1
Height Difference 2 to 4 Storeys	<input type="radio"/> 0.7	<input type="radio"/> 0.9	<input type="radio"/> 1
Height Difference < 2 Storeys	<input type="radio"/> 1	<input type="radio"/> 1	<input type="radio"/> 1

Comment: Nil

Factor D 1.0

3.5 Site Characteristics - Stability, landslide threat, liquefaction etc as it affects the structural performance from a life-safety perspective

Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant	Factor E 1.0
Comment: Potential for liquifaction, reclaimed land. Insignificant on performance. Distance to harbour 250m, lateral spreading insignificant	

3.6 Other Factors - for allowance of all other relevant characteristics of the building

For ≤ 3 storeys - Maximum value 2.5
 otherwise - Maximum value 1.5.
 No minimum.

Record rationale for choice of Factor F:
 Comment: Steel portal frames with cross bracing. Front structure, braced timber structure with heavy cladding.

Factor F 1.5

3.7 Performance Achievement Ratio (PAR)

(equals A x B x C x D x E x F)

PAR
Longitudinal 1.50

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Table IEP-3 Initial Evaluation Procedure Step 3

Step 3 - Assessment of Performance Achievement Ratio (PAR)

(Refer Appendix B - Section B3.2)

b) Transverse Direction

potential CSWs	Effect on Structural Performance (Choose a value - Do not interpolate)	Factors
3.1 Plan Irregularity Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		Factor A 1.0
3.2 Vertical Irregularity Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		Factor B 1.0
3.3 Short Columns Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		Factor C 1.0
3.4 Pounding Potential (Estimate D1 and D2 and set D = the lower of the two, or 1.0 if no potential for pounding, or consequences are considered to be minimal)		

a) Factor D1: - Pounding Effect

Note:
 Values given assume the building has a frame structure. For stiff buildings (eg shear walls), the effect of pounding may be reduced by taking the coefficient to the right of the value applicable to frame buildings.

Factor D1 For Transverse Direction: 1.0

Table for Selection of Factor D1	Severe	Significant	Insignificant
Separation	0<Sep<.005H	.005<Sep<.01H	Sep>.01H
Alignment of Floors within 20% of Storey Height	<input type="radio"/> 1	<input type="radio"/> 1	<input checked="" type="radio"/> 1
Alignment of Floors not within 20% of Storey Height	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input type="radio"/> 0.8

Comment: Nil

b) Factor D2: - Height Difference Effect

Factor D2 For Transverse Direction: 1.0

Table for Selection of Factor D2	Severe	Significant	Insignificant
Height Difference	0<Sep<.005H	.005<Sep<.01H	Sep>.01H
Height Difference > 4 Storeys	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input checked="" type="radio"/> 1
Height Difference 2 to 4 Storeys	<input type="radio"/> 0.7	<input type="radio"/> 0.9	<input type="radio"/> 1
Height Difference < 2 Storeys	<input type="radio"/> 1	<input type="radio"/> 1	<input type="radio"/> 1

Comment: Nil

Factor D 1.0

3.5 Site Characteristics - Stability, landslide threat, liquefaction etc as it affects the structural performance from a life-safety perspective

Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant	Factor E 1.0
Comment: Potential for liquifaction, reclaimed land. Insignificant on performance. Distance to harbour 250m, lateral spreading insignificant	

3.6 Other Factors - for allowance of all other relevant characteristics of the building

For ≤ 3 storeys - Maximum value 2.5
 otherwise - Maximum value 1.5.
 No minimum.

Factor F 1.00

Record rationale for choice of Factor F:
 Comment: Steel portal frames with cross bracing. Front structure, braced timber stucture with heavy cladding.

3.7 Performance Achievement Ratio (PAR)
 (equals A x B x C x D x E x F)

PAR
Transverse 1.00

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Table IEP-4 Initial Evaluation Procedure Steps 4, 5, 6 and 7

Step 4 - Percentage of New Building Standard (%NBS)

	Longitudinal	Transverse
4.1 Assessed Baseline %NBS (%NBS) _b (from Table IEP - 1)	26%	39%
4.2 Performance Achievement Ratio (PAR) (from Table IEP - 2)	1.50	1.00
4.3 PAR x Baseline (%NBS) _b	40%	40%
4.4 Percentage New Building Standard (%NBS) - Seismic Rating (Use lower of two values from Step 4.3)		40%

Step 5 - Is %NBS < 34?

NO

Step 6 - Potentially Earthquake Risk (is %NBS < 67)?

YES

Step 7 - Provisional Grading for Seismic Risk based on IEP

Seismic Grade **C**

Additional Comments (items of note affecting IEP based seismic rating)

Comment: None

Relationship between Grade and %NBS:

Grade:	A+	A	B	C	D	E
%NBS:	> 100	100 to 80	79 to 67	66 to 34	< 34 to 20	< 20

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Table IEP-5 Initial Evaluation Procedure Step 8

Step 8 - Identification of potential Severe Structural Weaknesses (SSWs) that could result in significant risk to a significant number of occupants

- 8.1 Number of storeys above ground level 1
- 8.2 Presence of heavy concrete floors and/or concrete roof? (Y/N) N

Potential Severe Structural Weaknesses (SSWs):

Note: Options that are greyed out are not applicable and need not be considered.

Occupancy not considered to be significant - no further consideration required

Risk not considered to be significant - no further consideration required

The following potential Severe Structural Weaknesses (SSWs) have been identified in the building that could result in significant risk to a significant number of occupants:

1. None identified
2. Weak or soft storey (except top storey)
3. Brittle columns and/or beam-column joints the deformations of which are not constrained by other structural elements
4. Flat slab buildings with lateral capacity reliant on low ductility slab-to-column connections
5. No identifiable connection between primary structure and diaphragms
6. Ledge and gap stairs

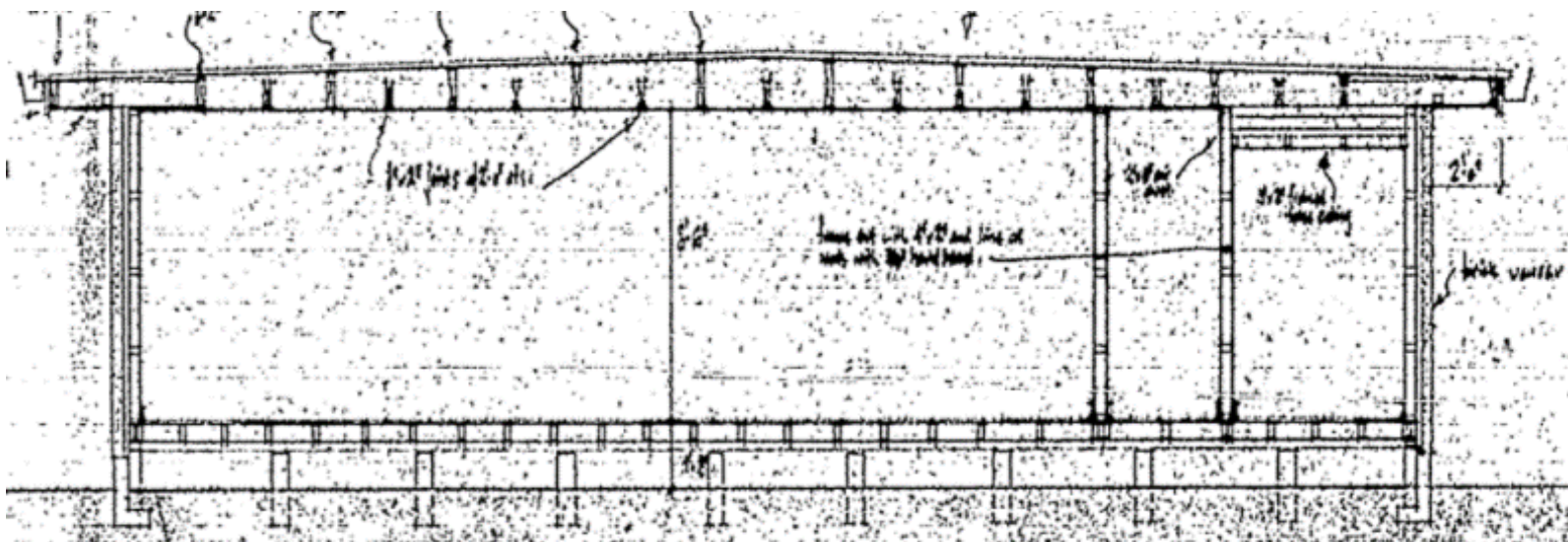
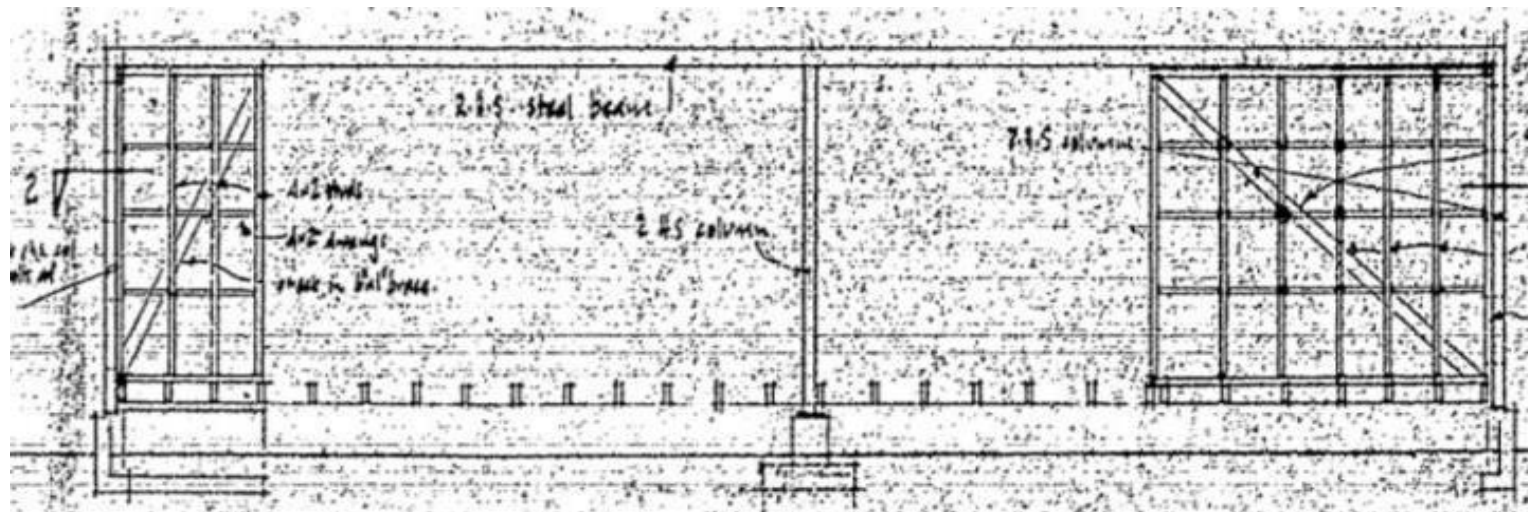
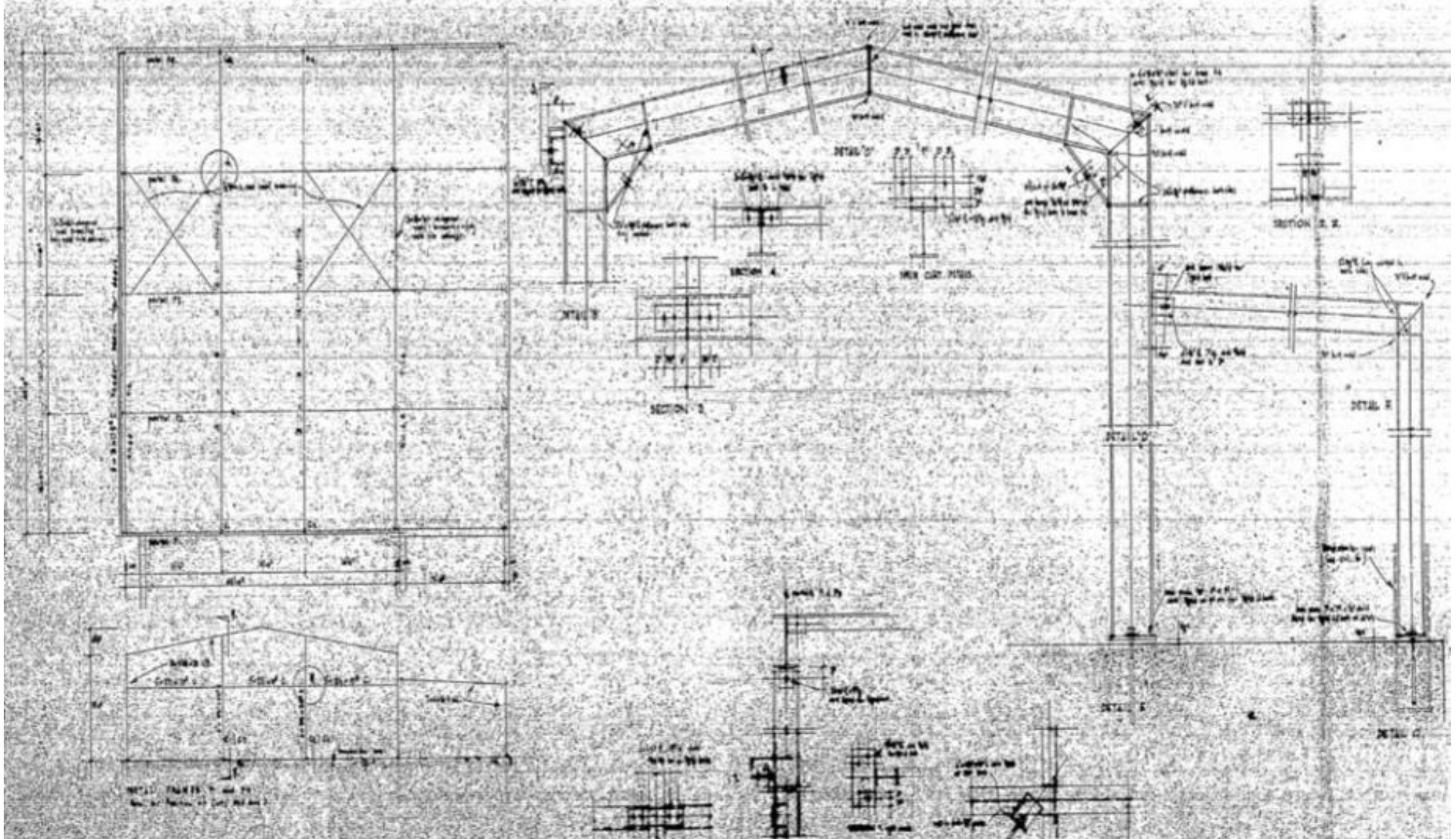
IEP Assessment Confirmed by  Signature
 Name
 CPEng. No

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Table IEP-1a Additional Photos and Sketches



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1. Building Information	
Building Name/ Description	Animal Services
Street Address	21 Meachen Street, Seaview
Territorial Authority	Hutt City Council
No. of Storeys	1
Area of Typical Floor (approx.)	480 sqm
Year of Design (approx.)	1968
NZ Standards designed to	NZSS 1900, Chapter 8: 1965
Structural System including Foundations	<p>Structure: Front - Timber framed structure with braced walls and brick veneer cladding with ties. Rear - portal frames with cross bracing.</p> <p>Foundations: Front - concrete foundation wall and piles supporting timber subfloor. Rear - concrete slab on grade with reinforced concrete pads and foundation beams</p> <p>Roof: Lightweight cladding, super six roofing over portal structure has been replaced</p>
Does the building comprise a shared structural form or shares structural elements with any other adjacent titles?	No
Key features of ground profile and identified geohazards	Flat even ground profile, subsoil E, land reclaimed during the 1950s, potential for liquefaction. 250m from shore, limited potential for lateral spreading.
Previous strengthening and/ or significant alteration	Minor alterations with little impact on performance of the building
Heritage Issues/ Status	Nil
Other Relevant Information	Constructed on land reclaimed in the 1950s

2. Assessment Information	
Consulting Practice	WSP New Zealand Ltd
CPEng Responsible, including: <ul style="list-style-type: none"> • Name • CPEng number • A statement of suitable skills and experience in the seismic assessment of existing buildings¹ 	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>
Documentation reviewed, including: <ul style="list-style-type: none"> • date/ version of drawings/ calculations² • previous seismic assessments 	<p>1968 Drawings, proposed building for A Lemmon Ltd. To be erected o lot 19 Seaview Reclamation. Drawings 125 sheets 1A, 2A, 3A, (5A?) and 6A .</p> <p>1968 Specifications, for construction of an industrial for A Lemmon Ltd. All pages 1 – 12</p> <p>1968 February – calculations (some poor quality)</p>
Geotechnical Report(s)	NA – assumed based on local knowledge refer to section 3
Date(s) Building Inspected and extent of inspection	6 December 2019
Description of any structural testing undertaken and results summary	None
Previous Assessment Reports	NA
Other Relevant Information	Nil

¹ This should include reference to the engineer's Practice Field being in Structural Engineering, and commentary on experience in seismic assessment and recent relevant training

² Or justification of assumptions if no drawings were able to be obtained

3. Summary of Engineering Assessment Methodology and Key Parameters Used	
Occupancy Type(s) and Importance Level	Importance Level 2
Site Subsoil Class	E assumed based on local knowledge and NZS1170.5:2004 Site Subsoil Classification of Lower Hutt http://nzsee.org.nz/db/2011/013.pdf Reclaimed land 1950s
For an ISA:	
Summary of how Part B was applied, including: <ul style="list-style-type: none"> • Key parameters such as μ, S_p and F factors • Any supplementary specific calculations 	Ductility – 1.50 Steel cross-braced portal frames and 2.0 Steel Portal frames (2.0 lined and braced timber framed walls, ignore as not the limiting ductility) Sp Factor – 0.85 and 0.70 F Factor – 2.0 Steel portal frames with cross bracing. Front structure, braced timber structure with heavy cladding. 1.5 steel portal frames
For a DSA:	
Summary of how Part C was applied, including: <ul style="list-style-type: none"> • the analysis methodology(s) used from C2 • other sections of Part C applied 	NA
Other Relevant Information	NA

4. Assessment Outcomes		
Assessment Status (Draft or Final)	Final	
Assessed %NBS Rating	40%NBS IL2	
Seismic Grade and Relative Risk (from Table A3.1)	C - 5 – 10 times greater	
For an ISA:		
Describe the Potential Critical Structural Weaknesses	None identified	
Does the result reflect the building's expected behaviour, or is more information/ analysis required?	Yes – the ISA is sufficient	
If the results of this ISA are being used for earthquake prone decision purposes, <u>and</u> elements rating <34%NBS have been identified:	Engineering Statement of Structural Weaknesses and Location NA	Mode of Failure and Physical Consequence Statement(s) NA
For a DSA:		
Comment on the nature of Secondary Structural and Non-structural elements/ parts identified and assessed		
Describe the Governing Critical Structural Weakness		
If the results of this DSA are being used for earthquake prone decision purposes, <u>and</u> elements rating <34%NBS have been identified (including Parts) ³ :	Engineering Statement of Structural Weaknesses and Location	Mode of Failure and Physical Consequence Statement(s)
Recommendations (optional for EPB purposes)		

³ If a building comprises a shared structural form or shares structural elements with other adjacent titles, information about the extent to which the low scoring elements affect, or do not affect the structure.