Table IEP-1 Initial Evaluation Procedure Step 1

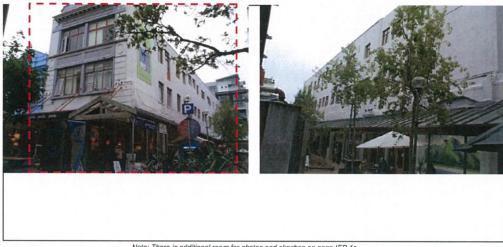
Page 1

(Refer Table IEP - 2 for Step 2; Table IEP - 3 for Step 3, Table IEP - 4 for Steps 4, 5 and 6)

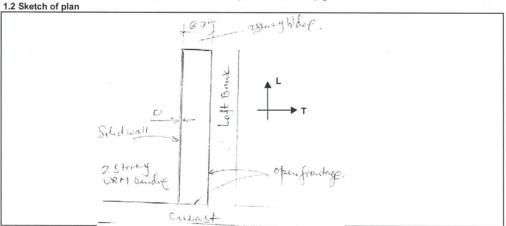
Street Number & Name: 116 Cuba St Ref. WCC 1113, Lot#8 Location: Te Aro By: Beca - JKB AKA / Name of building: Left Bank WUFI 1165426 Date: 13/03/2007

Step 1 - General Information

1.1 Photos (attach sufficient to describe building)



Note: There is additional room for photos and skeches on page IEP-1a



ivote. There is auditional room for photos and skeches on page icr-1a

1.3 List relevant features

- Occupany: Shops, residential RC walls, URM

- 3 storey high Well maintained
- Fillor/ roof diaphragm noty known
 Higher 1st storey (@ 4 m), lower upper storey (@ 3.6 m)

1.4 Note information sources

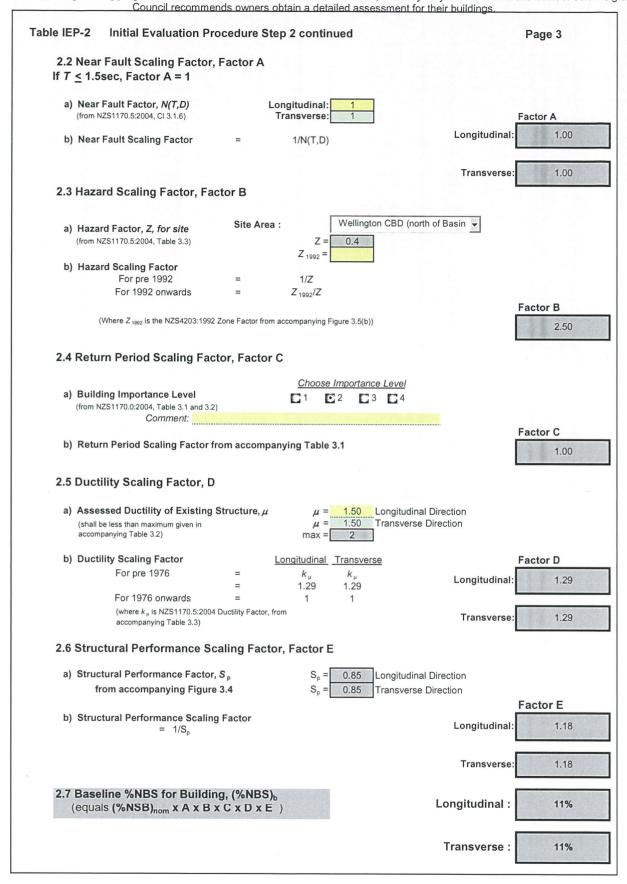
Visual Inspection of Exterior Visual Inspection of Interior Drawings (note type) Specifications Geotechical Reports

Other (list)

WCC Summary, Aerial photomap, Wellington cityscope map

tick as appropriate

treet Number & Name:	116 Cuba St			Ref. WCC 1113	
ocation: irection Considered:	Te Aro	T	. Е	By Beca - JKI	3
Choose worse case if clear at	a) Longitudinal b) start. Complete IEP-2 and		oubt) [Date: 13/03	3/2007
tep 2 - Determination of 2.1 Determine nomin (Baseline (%NBS) for partic	al (%NBS) = (%NBS)				
a) Date of Design and S	Seismic Zone		- Strengthening -		<u> </u>
•	Date of Design:	Pre 1935	Strengthening —	to have been St	rengthened
	(or date of code strengthened to)	O 1935-1965			rengthened
	Surenginened to)	O 1965-1976		nened enter design date:	
		O 1976-1992	Original	acoign date.	
		O 1992-2004	S	ee Note 4 below also	
	Building Category:				
	Saismia Zanas		100	je?	
	Seismic Zone:		M		
b) Soil Type	IZS1170.5:2004, CI 3.1.3 :	NZS1170.5:2004 —	7		
FIOHE	1201110.0.2004, 010.1.0	A or B Rock			
		C Shallow Soil			
		D Soft Soil			
		E Very Soft Soil	1 ,		
F	1704000-4000-01-4-0-0	NZS4203:1992 —			
	IZS4203:1992, Cl 4.6.2.2 : 4 only and only if known)	PR			
•	,	Intermediate or	Not Known		
c) Estimate Period, T				Longitudinal	<u>Transverse</u>
	nent: H = 4+3.6*2 ==11.2 r	n		h _n = 11.2	11.2 m
				A _c = 1.00	1.00 m²
Moment Resisting Con		$T = 0.09 h_n^{0.75}$		MRCF	MRCF
Moment Resisting Ste Eccentrically Braced S		$T = 0.14h_n^{0.75}$ $T = 0.08h_n^{0.75}$		MRSF	MRSF
All Other Frame Struc		$T = 0.06 h_n^{0.75}$		EBSF Others	EBSF Others
Concrete Shear Walls		$T = 0.09 h_n^{0.75} / A_c^{0.5}$		CSW	Csw
Masonry Shear Walls:		T ≤ 0.4sec		■ MSW	
User Defined (input Po	eriod):			Defined	C Defined
Where h_n = height in m from	m the base of the structure to the	uppermost seismic weight (or mass.	0.40	0.40 Seco
d) (%NBS) _{nom} determin	ed from Figure 3.3			Longitudinal: Transverse:	2.86% 2.86%
(%NBS) _{nom} by 1.25. For buildings designed public buildings in acco	prior to 1965 and known to be desirdance with the code of the time, in 1965 - 1976 and known to be desirdance with the code of the time, if one A, or by 1.2 - Zone B	rultipy FALSE igned as]		
Note 2: For reinforced concrete (%NBS) _{nom} by 1.2	buildings designed between 1976	6-84 multiply FALSE]		
Note 3: For buildings designed for Wellington where the	prior to 1935 multiply (%NBS) _{nom} ne factor may be taken as 1.	by 0.8 except 1.00	1		
	n to have been strengthened, enter e selected in 2.1 a) that the buildin for each direction. If not strengthe	g has 100%	Longitudinal Dire		(%NBS)nom



	mber & Name:	116 Cuba St			Ret. V	CC 1113, Lot#8
Location:		Te Aro			Ву:	Beca - JKB
	Considered:	a) Longitudinal & b) Transverse te IEP-2 and IEP-3 for each if in doubt)			Date: 13/03/2007	
		e IEF-2 and IEF-3 for ea	acri ii iii doubij		Date. 1	3/03/2007
	tudinal Direction					
Step 3 -	Assessment of Performance (Refer Appendix B - Section I		o (PAR)			
	Critical Structural Weaknes			ural Performai		Bu
	3.1 Plan Irregularity	F7 o	PR or in	- Incignificant		
	Effect on Structural Perfor	omment Solid wall on o	Significant one side and op	en frame in		Factor A
	3.2 Vertical Irregularity	opposite side	E Cinnificant	E Insignificant		
	Effect on Structural Perfor	omment Solid walls in	Significant upper, open fra	Insignificant me in 1st storey		Factor B
	3.3 Short Columns	(along Left Ba	nk) Significant	€ Insignifies=1		
	Effect on Structural Perfor	rmance Severve	Gigninicant	☑ Insignificant		Factor C
	3.4 Pounding Potential (Estimate D1 and D2 and set	t D = the lower of the t	wo, or =1.0 if no	potential for po	unding)	
	a) Factor D1: - Pounding Effect Select appropriate value from	Table				
	Select appropriate value from Note: Values given assume the buildin	ng has a frame structu				
	Select appropriate value from	ng has a frame structu	to the right of t	he value applical	ble to frame buildi	ings.
	Select appropriate value from Note: Values given assume the buildin	ng has a frame structu	to the right <i>of t</i> Factor [the value applicate O1 For Longitud Severe	linal Direction: Significant	ngs. 0.7 Insignificant
	Select appropriate value from Note: Values given assume the buildin of pounding may be reduced by Table for Selection of Factor D1	ng has a frame structu	Factor I	D1 For Longitud Severe 0 <sep<.005h< td=""><td>linal Direction: Significant .005<sep<.01h< td=""><td>ings. 0.7</td></sep<.01h<></td></sep<.005h<>	linal Direction: Significant .005 <sep<.01h< td=""><td>ings. 0.7</td></sep<.01h<>	ings. 0.7
	Select appropriate value from Note: Values given assume the buildin of pounding may be reduced by Table for Selection of Factor D1 Alignme	ng has a frame structu taking the co-efficient	Factor I Separation 6 of Storey Height	O1 For Longitud Severe 0 0 <sep<.005h< td=""><td>linal Direction: Significant</td><td>0.7 Insignificant Sep>.01H</td></sep<.005h<>	linal Direction: Significant	0.7 Insignificant Sep>.01H
	Select appropriate value from Note: Values given assume the buildin of pounding may be reduced by Table for Selection of Factor D1 Alignment	ng has a frame structu taking the co-efficient taking the co-efficient taking the co-efficient taking the co-efficient	Factor I Separation 6 of Storey Heigh	D1 For Longitud Severe 0 0 <sep<.005h 0="" 0.7<="" td=""><td>linal Direction: Significant .005<sep<.01h< td=""><td>0.7 Insignificant Sep>.01H</td></sep<.01h<></td></sep<.005h>	linal Direction: Significant .005 <sep<.01h< td=""><td>0.7 Insignificant Sep>.01H</td></sep<.01h<>	0.7 Insignificant Sep>.01H
	Select appropriate value from Note: Values given assume the buildin of pounding may be reduced by Table for Selection of Factor D1 Alignment	ng has a frame structu taking the co-efficient ent of Floors within 20% of Floors not within 20% mment: a three storey	Factor I Separation 6 of Storey Heigh	D1 For Longitud Severe 0 0 <sep<.005h 0="" 0.7<="" td=""><td>linal Direction: Significant .005<sep<.01h< td=""><td>0.7 Insignificant Sep>.01H</td></sep<.01h<></td></sep<.005h>	linal Direction: Significant .005 <sep<.01h< td=""><td>0.7 Insignificant Sep>.01H</td></sep<.01h<>	0.7 Insignificant Sep>.01H
	Select appropriate value from Note: Values given assume the buildin of pounding may be reduced by Table for Selection of Factor D1 Alignment Cor b) Factor D2: - Height Difference Select appropriate value from	ng has a frame structu taking the co-efficient ent of Floors within 20% of Floors not within 20% mment: a three storey	Factor I Separation 6 of Storey Heigh building in bac	D1 For Longitud Severe 0 <sep<.005h 0="" 0.4="" 0.7="" d2="" for="" k="" longitud<="" td=""><td>ble to frame buildi</td><td>0.7 Insignificant Sep>.01H</td></sep<.005h>	ble to frame buildi	0.7 Insignificant Sep>.01H
	Select appropriate value from Note: Values given assume the buildin of pounding may be reduced by Table for Selection of Factor D1 Alignment Coi b) Factor D2: - Height Difference	ng has a frame structu taking the co-efficient ent of Floors within 20% of Floors not within 20% mment: a three storey	Factor I Separation 6 of Storey Heigh building in bac	D1 For Longitud Severe 0 < Sep<- 0.05H 0	ble to frame buildi	ngs. 0.7 Insignificant Sep>.01H 1 0.8
	Select appropriate value from Note: Values given assume the buildin of pounding may be reduced by Table for Selection of Factor D1 Alignment Cor b) Factor D2: - Height Difference Select appropriate value from	ng has a frame structure taking the co-efficient taking	Factor I Separation 6 of Storey Heigh building in bac	D1 For Longitud Severe OSep<.005H C 0.4 k D2 For Longitud Severe OSep<.005H	linal Direction: Significant .005 <sep<.01h .0.7<="" .0.8="" td=""><td>ngs. 0.7 Insignificant Sep>.01H C 1 C 0.8</td></sep<.01h>	ngs. 0.7 Insignificant Sep>.01H C 1 C 0.8
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	Select appropriate value from Note: Values given assume the buildin of pounding may be reduced by Table for Selection of Factor D1 Alignment Coi b) Factor D2: - Height Difference Select appropriate value from	ng has a frame structu taking the co-efficient ent of Floors within 20% of Floors not within 20% mment: a three storey P. Effect Table Height Differen Height Differen	Factor I Separation 6 of Storey Heigh 6 of Storey Heigh building in bac Factor I nce > 4 Storey ce 2 to 4 Storey ence < 2 Storey ence < 2 Storey	D1 For Longitud Severe OSep<.005H t 0.7 L 0.4 k D2 For Longitud Severe OSep<.005H Severe OSep<.005H	linal Direction: Significant .005 <sep<.01h .0.7="" .0.8="" .0.9="" .0.9<="" td=""><td>0.7 Insignificant Sep>.01H C 1 C 0.8 1.0 Insignificant Sep>.01H C 1</td></sep<.01h>	0.7 Insignificant Sep>.01H C 1 C 0.8 1.0 Insignificant Sep>.01H C 1
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	Select appropriate value from Note: Values given assume the buildin of pounding may be reduced by Table for Selection of Factor D1 Alignment Coi b) Factor D2: - Height Difference Select appropriate value from	ng has a frame structu taking the co-efficient ent of Floors within 20% of Floors not within 20% mment: a three storey P. Effect Table Height Differen Height Differen	Factor I Separation 6 of Storey Heigh 6 of Storey Heigh building in bac Factor I nce > 4 Storey ce 2 to 4 Storey ence < 2 Storey ence < 2 Storey	D1 For Longitud Severe 0 < Sep<.005H t	ble to frame buildi linal Direction: Significant .005 <sep<.01h .0.1<="" .0.7="" .0.8="" .0.9="" td=""><td>ngs. 0.7 Insignificant Sep>.01H 1.0 Insignificant Sep>.01H 1.1 Insignificant Sep>.01H 1.2 Insignificant Sep>.01H 1.3 Insignificant Sep>.01H 1.4 Insignificant Sep>.01H 1.5 Insignificant Sep>.0</td></sep<.01h>	ngs. 0.7 Insignificant Sep>.01H 1.0 Insignificant Sep>.01H 1.1 Insignificant Sep>.01H 1.2 Insignificant Sep>.01H 1.3 Insignificant Sep>.01H 1.4 Insignificant Sep>.01H 1.5 Insignificant Sep>.0
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	Select appropriate value from Note: Values given assume the buildin of pounding may be reduced by Table for Selection of Factor D1 Alignment Coi b) Factor D2: - Height Difference Select appropriate value from	ng has a frame structuration that the co-efficient stating the co-efficient stating the co-efficient stating the co-efficient stating that the co-efficient	Factor I Separation 6 of Storey Heigh 6 of Storey Heigh building in bac Factor I nce > 4 Storey ce 2 to 4 Storey ence < 2 Storey	D1 For Longitud Severe 0 < Sep<.005H 1	ble to frame buildi linal Direction: Significant .005 <sep<.01h .0.1="" .0.1<="" .0.7="" .0.8="" .0.9="" td=""><td>ngs. 0.7 Insignificant Sep>.01H 1.0 Insignificant Sep>.01H 1.1 Insignificant Sep>.01H 1.2 Insignificant Sep>.01H 1.3 Insignificant Sep>.01H 1.4 Insignificant Sep>.01H 1.5 Insignificant Sep>.0</td></sep<.01h>	ngs. 0.7 Insignificant Sep>.01H 1.0 Insignificant Sep>.01H 1.1 Insignificant Sep>.01H 1.2 Insignificant Sep>.01H 1.3 Insignificant Sep>.01H 1.4 Insignificant Sep>.01H 1.5 Insignificant Sep>.0
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b) Transverse Direction		Page 5
Step 3 - Assessment of Performance Achiev (Refer Appendix B - Section B3.2)	vement Ratio (PAR)	
	Effect on Structural Performance Choose a value - Do not interpolate)	Building Score
3.1 Plan Irregularity Effect on Structural Performance Comment	🛚 Severve 📑 Significant 🔁 Insignif	Factor A 1.0
3.2 Vertical Irregularity Effect on Structural Performance Comment		
3.3 Short Columns Effect on Structural Performance Comment	🛮 Severve 📘 Significant 🕒 Insignif	Factor C 1.0
3.4 Pounding Potential	lower of the two, or =1.0 if no potential	
a) Factor D1: - Pounding Effect Select appropriate value from Table Note:		
Note: Values given assume the building has a of pounding may be reduced by taking th	frame structure. For stiff buildings (eg ne co-efficient to the right of the value a	with shear walls), the effect pplicable to frame buildings.
Table for Selection of Factor D1	Factor D1 For T	ransverse Direction: 0.7 re Significant Insignificant
1,200,000,000,000,000,000		005H .005 <sep<.01h sep="">.01H</sep<.01h>
Alignment of Flo	ors within 20% of Storey Height C0.	7 🗖 0.8 🗖 1
	not within 20% of Storey Height 🚨 0.	
Comment: 2	storey adjacent building (118 Cuba st)	
b) Factor D2: - Height Difference Effect Select appropriate value from Table		
		ransverse Direction:
Table for Selection of Factor D2	Seve 0 <sep<< td=""><td>re Significant Insignificant .005H .005<sep<.01h sep="">.01H</sep<.01h></td></sep<<>	re Significant Insignificant .005H .005 <sep<.01h sep="">.01H</sep<.01h>
	Height Difference > 4 Storeys	
1	Height Difference 2 to 4 Storeys 0.7	
	Height Difference < 2 Storeys	C1 C1
Comment:		Factor D 0.7 Set D = lesser of D1 and D2 or D = 1.0 if no prospect of pounding)
3.5 Site Characteristics - (Stability	Severe Signific 0.5max 0	7 🖸 1 Factor E 1
Record rationale for choice of	Comment: For ≤ 3 storeys - Maximum value 2.5 otherwise - Maximum value 1.5 Factor F:	,
3.7 Performance Achievement Ra (equals A x B x C x D x E x F)		PAR (Transverse): 0.34

Street Number & Name: 116 Cuba St Location: Te Aro				Ref. By:	WCC 1113, Lot#8 Beca - JKB
				Date:	13/03/2007
Step 4 - Percentage of New Build	ing Standard (%NBS)	Longitudinal		Transverse
4.1 Assessed Baseline (%NE (from Table IEP - 1)	is)		10.8%		10.8%
4.2 Performance Achievemer (from Table IEP - 2)	0.13		0.34		
4.3 PAR x Baseline (%NBS)b	1%		4%		
4.4 Percentage New Building		BS)			1%
(Use lower of two values from	Step 3.3)				
Step 5 - Potentially Earthquake P (Mark as approp			%NBS ≤ 33		YES
Step 6 - Potentially Earthquake R (Mark as approp			%NBS < 67		YES
Step 7 - Provisional Grading for S			Seismic Gra		E
Evaluation Confirmed b	y	Beca		Signatu	ıre
	on	behalf of W	СС	Name	
				CPEng	No
				OI LING	. 140
Relationship between	Grade and S	pç.		Of Elig	· NO
Relationship between Grade: A+	Grade and S	PS:	С	D	. HO

Table IEP-1a Additional Photos and Sketches

Page 1a

(Refer Table IEP - 2 for Step 2; Table IEP - 3 for Step 3, Table IEP - 4 for Steps 4, 5 and 6)

Street Number & Name: Location: 116 Cuba St Te Aro

Ref. WCC 1113, Lot#8

By: Beca - JKB

Date: 13/03/2007

Add any additional photographs or sketches required below:

Note: print this page separately



Side view at the Rear



Adj building