GUIDANCE FOR MONITORING AND REVIEWING BARRICADES

Guidance For Monitoring And Reviewing Barricades

Barricade Purpose - Protect people from dangerous buildings

Issues to be considered

- The longer the period damaged buildings remain unattended to the greater the risk
- Factors determining the necessary clearance from buildings
 - Type of potential failures

Top storey only
 Parapet only
 (1.5 building height)
 (1.5 top storey height)
 (2 metres outside vere

(2 metres outside veranda fascia or 3 metres from building)

- o Mass of material in potential failures (add base width of potential material pile to above)
- Interaction of barricades with traffic and pedestrians
 - o Traffic volume
 - o Route complexity road alignment, cross roads, traffic lights etc.
 - o Further barricades are from building the greater the potential conflict
 - o More street crossing points may be needed
- Differing levels of protection required for pedestrians, people with disabilities, cyclists and motorists
 - o Protection to be provided for visually impaired pedestrians? (instances have been seen)
 - Should separation distances be different for pedestrians than motor vehicles? (Direct pedestrians to other side of road?)
- Varying standard of barricades
 - Containers
 - Wire fences
 - o Cones

 - Define where each is appropriate
 - o The simpler the barricades the easier they are moved
 - People entering red placarded buildings
- Conflict with working areas for building and other works
 - o Are TMPs being provided and approved for these activities?
 - Regular reviews needed? (say daily by vehicle Monday and Friday by foot)
- Knowledge of which buildings need barricading
 - Information available from database(s)
- Removal of placards by unofficial sources
 - o Absence of placard does not necessarily mean no barricade needed

PROCEDURE FOR PERMITTING THE REMOVAL OF TEMPORARY FENCING/BARRICADES FROM AROUND DAMAGED BUILDINGS



Procedure for Permitting the Removal of Temporary Fencing/ Barricades from Around Damaged Buildings

Buildings with Green Stickers

To get temporary traffic management such as tape, fences/ barricades removed from a building with a green sticker the following process must be followed:

- 1. The property owner is to contact the CCC Building Evaluation Team, stating that their building has a green sticker and they would like the tape/ fencing/ barricades removed.
- 2. The CCC Building Evaluation Team will check the building status. If the building has a green sticker and is a stand alone building, or if the building has a green sticker and is adjacent to buildings that also have green stickers then the process continues to Step 4.
- 3. If the building has a green sticker and adjacent to buildings that have either red or yellow stickers then refer to the process for *Buildings with Yellow or Red Stickers*.
- Once the CCC Building Evaluation Team is satisfied that the building is safe and that
 it does not pose a threat to the public safety they will contact the CCC Traffic
 Management Team.
- 5. CCC Traffic Management Team instructs the maintenance contractor to remove the tape/ fencing/ barricade

Buildings with Yellow or Red Stickers

To get temporary traffic management such as tape, fences/ barricades removed from a building with either a yellow or red sticker the following process must be followed:

- 1. The building is to be made safe
- 2. The property owner arranges for a suitably qualified engineer/ inspector to assess the building.
- 3. The engineer/ inspector produces a structural assessment report stating that the building is safe to occupy and does not pose a threat to public safety
- 4. The property owner presents the structural assessment report to the CCC Building Evaluation Team.
- Once the CCC Building Evaluation Team is satisfied that the building is safe and that
 it does not pose a threat to the public safety they will contact the CCC Traffic
 Management Team (this step may include an inspection by the CCC Building
 Evaluation Team and/or Traffic Management Team).
- 6. CCC Traffic Management Team instructs the maintenance contractor to remove the tape/ fencing/ barricade.

Contact:

CCC Building Evaluation Team

941 8698 or 941 8666

EARTHQUAKE DAMAGE REPORT - CATHEDRAL SQUARE, 29 DECEMBER 2010

29 December 2010

Mr Richard Gant Cristchurch City Council 53 Herford Street PO Box 237 Christchurch 8140

Dear Richard

Earthquake Damage Report

As instructed we walked the proposed New Year's Eve Concert 2010 route to asses, Earthquake related, structural damage that could cause harm to the general public attending the event.

Background

We walked the site on 29 December 2010 in a anti-clockwise route following the December 26th earthquake and covered:

- Worcester Street between Oxford and Manchester
- · Colombo Street between Hereford and Gloucester

Our inspection was limited to a visual, external, inspection from ground level. No linings or finishes were removed to expose structural elements, no analysis was undertaken and no structural drawings were available or reviewed.

This report focuses solely on public safety issues for the New Year's Eve event.

Summary

No uncontained damage that would effect the safe running of the New Year's Eve Concert was observed.

- The Regent on Worcester Street had had its parapet partially removed and the hoardings are due to be removed 30/12/10 prior to the event. We are satisfied that the building works have removed the danger to the public.
- The façade of the BNZ building corner of Colombo and Hereford Street is undergoing inspection by abseil specialists, no new damage has been detected and the existing barricade is sufficient.
- The Press building is undergoing work at the moment. Should this work not be finished by New Year's Eve it would be prudent to extend the hording by 1m on the Square side.
- A hording exists adjacent Colonial Lane Backpackers, as the public will no congregate in this area there is no additional risk
- The hording containing the un-occupied building 53 Cathedral Square is sufficient.

Next Steps

We consider that there is no Structural reason to cancel the Cathedral Square New Year's Eve concert.

Yours sincerely

Paul Campbell

Principal Structural Engineer, CPEng 197688

Currey

John Mitchell

Structural Engineer, CPEng

CHRISTCHURCH CITY COUNCIL MEDIA RELEASE - 9.30PM 26 DECEMBER 2010

You are here: Home The Council News & media Media releases 2010 Central City cordons reduced

Central City cordons reduced

9:30pm 26 December 2010

Cordons in the Central City have been reduced this evening as emergency services complete public safety assessments around buildings damaged by the series of Boxing Day earthquakes. Closures will remain in place overnight in the following locations:

- Cashel Street (City Mall) from Oxford Terrace to Colombo Street
- Gloucester Street from Manchester Street to Latimer Square
- Manchester Street from Worcester Street to Gloucester Street
- Manchester Street from Hereford Street to Cashel Street (existing closure from previous damage)
- Tramway Lane

Closures on Lichfield Street and Colombo Street have now been lifted and Hereford Street, from Oxford Terrace to Colombo Street will reopen to traffic before midnight. Police will staff the cordons overnight and Civil Defence assessors will continue working in these areas in the morning. Cordons introduced elsewhere in the Central City today have been reduced to areas around individual buildings.

The work being carried out today in the Central City by Civil Defence building assessors, assisted by the New Zealand Fire Service, is an initial check of the extent of damage, with the aim of protecting public safety on footpaths and roads adjacent to damaged buildings.

It is the responsibility of building owners, working with their insurers, to have their buildings structurally assessed by engineers. Any remediation work necessary will be carried out by the building owner and their insurer.

A Civil Defence Emergency Operations Centre (EOC) has been set up at the Christchurch City Council's Hereford Street building to coordinate emergency services. Damage has largely been limited to the Central City, with no major damage reported in Christchurch's suburbs. Civil Defence staff have received no reports of injuries as a result of the quakes. City infrastructure – water, wastewater and stormwater networks – were undamaged during the recent quakes. The EOC will remain open until all of the public safety assessments in the Central City have been completed. Residents are advised to use the 111 emergency call system if they believe they are in immediate danger.

Earthquake background from Environment Canterbury:

- The earthquakes being felt in Christchurch today are still part of the normal aftershock sequence from September's magnitude 7.1 earthquake.
- The last three to four weeks have been relatively quiet, and these are the largest aftershocks since mid-November.
- It is not unusual to get significant aftershocks several months after a large earthquake, and it is not unusual to have them in "swarms" or groups as we are having today.
- These aftershocks are much closer to Christchurch than many of the other aftershocks we have had, so they are felt more strongly.
- The earthquakes are not related to the magnitude 7.6 earthquake that occurred in Vanuatu earlier this morning.
- There is no indication that a large earthquake (similar to the September earthquake) is going to occur following these aftershocks.

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• People should take normal precautions, such as making sure heavy objects are not placed high up on shelves, securing fragile objects, having food and water stored, and a battery-powered radio and torches handy.

Map of road closures as at 2100 hrs

Central City building damage information – call 941 6789

Owners of buildings in Central City are advised to call Council staff on 941 6789 to report/discuss damage

Authorising Unit: Communications

Last reviewed: Sunday, December 26, 2010

Next review: Sunday, June 26, 2011

Keywords: civil defence, earthquake, media

Monday, July 11, 2011 9:31:57 AM New Zealand Local Time.





CHRISTCHURCH CITY COUNCIL MEDIA RELEASE – 27 DECEMBER 2010

You are here: Home | The Council | News & media | Media releases | 2010 | Central City business owners urged to check their buildings

Central City business owners urged to check their buildings

27 December 2010

Owners of buildings in areas affected by yesterday's aftershocks are being asked to check the safety of their buildings.

Deputy Mayor Ngaire Button says while most of the city is open for business, the Cashel Street area between Oxford Terrace and Colombo Street and around Hereford street has sustained some damage and has been cordoned off.

"We need the owners to bring in their structural engineers to assess the buildings and to ensure safety measures are in place. They also need to ensure the security of their property or business.

"Council is working in close conjunction with Police and the Fire Service and we need the building and business owners also to get on board and work with us by having engineers assess their buildings and for them to contact their insurance companies. We do need to ensure public safety.

"Council has set up a call-in number 941 6789 to provide building and business owners with information. Anyone unsure of what should be done should make a call," says Deputy Mayor Button.

Authorising Unit: Communications

Last reviewed: Monday, December 27, 2010

Next review: Monday, June 27, 2011

Keywords: building inspection, christchurch city council, earthquake, media

Monday, July 11, 2011 9:29:50 AM New Zealand Local Time.





CANTERBURY EARTHQUAKE (BUILDING ACT) ORDER 2010

Reprint as at 23 December 2010



Canterbury Earthquake (Building Act) Order 2010

(SR 2010/315)

Anand Satyanand, Governor-General

Order in Council

At Wellington this 16th day of September 2010

Present:

His Excellency the Governor-General in Council

Pursuant to section 6 of the Canterbury Earthquake Response and Recovery Act 2010, His Excellency the Governor-General makes the following order acting—

(a) on the advice and with the consent of the Executive Council; and

Note

Changes authorised by section 17C of the Acts and Regulations Publication Act 1989 have been made in this reprint.

A general outline of these changes is set out in the notes at the end of this reprint, together with other explanatory material about this reprint.

This order is administered by the Department of Building and Housing.

Reprinted as at 23 December 2010

(b) on the recommendation of the relevant Minister made in accordance with section 6(2) of that Act.

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Order

1 Title

cl 1

This order is the Canterbury Earthquake (Building Act) Order 2010.

cl 6

2 Commencement

This order comes into force on 16 September 2010.

3 Expiry

This order expires on the close of 16 September 2011.

4 Interpretation and application

(1) In this order, unless the context otherwise requires— Act means the Building Act 2004

moderate earthquake has the meaning given to it by regulation 7 of the Building (Specified Systems, Change the Use, and Earthquake-prone Buildings) Regulations 2005

territorial authority means a district of a territorial authority to which this order applies under clause 5.

- (2) Any term or expression that is not defined in this order, but defined in the Act or the Canterbury Earthquake Response and Recovery Act 2010, has the meaning given to it by that Act.
- (3) The modifications or extensions to the Act made by this order do not affect the text of the Act but require it to be read as if it had been amended in the manner indicated in this order.

5 Territorial authorities to which this order applies

This order applies only to districts of the following territorial authorities:

- (a) Christchurch City Council:
- (b) Selwyn District Council:
- (c) Waimakariri District Council.

6 Cases where building consent is not required

Section 41(1)(e) of the Act is extended by adding ", including under any provision of this Act as exempted, modified, or extended by the Canterbury Earthquake (Building Act) Order 2010".

7 Modification of meaning of dangerous building and extent to which territorial authority can apply modified provision

- (1) Section 121(1) of the Act is modified by adding "; or" and also by adding the following paragraphs:
 - there is a risk that the building could collapse or otherwise cause injury or death to any person in the building as a result of an earthquake that generates shaking that is less than a moderate earthquake; or
 - "(d) there is a risk that other property could collapse or otherwise cause injury or death to any person in the building; or
 - "(e) a territorial authority has not been able to undertake an inspection to determine whether—
 - "(i) the building is dangerous under paragraph (a); and
 - "(ii) the territorial authority or the chief executive, as the case may be, is required to exercise powers under section 124 or 129 as modified by this order."
- (2) Section 121(1)(c) of the Act as modified by this clause applies only for the purposes of a territorial authority exercising its powers under section 124(1)(a), (b), (c), or (d) as modified by clause 9.
- (3) Section 121(1)(d) or (e) of the Act as modified by this clause applies only for the purposes of a territorial authority exercising its powers under section 124(1)(a), (b), or (d) as modified by clause 9.

8 Notices under section 124 of Act

(1) In this clause,—

red card means a card-

- (a) of the kind described in the New Zealand Society for Earthquake Engineering Building Safety Evaluation Guidelines; and
- (b) that was issued under Part 5 of the Civil Defence Emergency Management Act 2002 in relation to the Canterbury earthquake

yellow card means a card-

- (a) of the kind described in the New Zealand Society for Earthquake Engineering Building Safety Evaluation Guidelines: and
- (b) that was issued under Part 5 of the Civil Defence Emergency Management Act 2002 in relation to the Canterbury earthquake.
- (2) A red card is deemed to be a notice issued under section 124(1)(b) of the Act that warns people not to approach the building.
- (3) A yellow card is deemed to be a notice issued under section 124(1)(d) of the Act as modified by clause 9.
- (4) Any restrictions on use that are described on a yellow card are deemed to be requirements of a notice issued under section 124(1)(d) of the Act as modified by clause 9.
- 9 Modification of powers of territorial authorities in respect of dangerous, earthquake-prone, or insanitary buildings under section 124 of Act
- (1) Section 124(1) of the Act is modified by replacing paragraph (c) with the following provisions:
 - "(c) give written notice—
 - "(i) requiring work to be carried out on the building to reduce or remove the danger or prevent the building from remaining insanitary; and
 - "(ii) requiring the work to be carried out within a time stated in the notice (which must not be less than 5 days after the notice is given under section 125); and
 - "(iii) advising the owner of the building that if the work is not carried out within the time stated in the notice,—
 - "(A) a territorial authority may carry out the work required under the notice; and
 - "(B) the owner of the building will be liable for the costs of the work carried out by the territorial authority unless the owner applies, within 5 days of the work being carried out, to a District Court for relief

from the obligation to pay the territorial authority's costs:

- "(d) issue a notice restricting entry to a building for particular purposes or restricting entry to particular persons or groups of persons."
- (2) A notice issued under section 124(1)(b) of the Act or section 124(1)(d) of the Act as modified by this clause—
 - (a) may be issued for a maximum period of 60 days; and
 - (b) may be renewed.
- (3) A notice issued under section 124(1)(c) of the Act as modified by this clause may be issued for such period that a territorial authority thinks fit.

Modification of requirements for notice given under section 124 of Act

Section 125(1) of the Act is modified by replacing paragraph (b) with the following paragraphs:

- "(b) state whether the owner of the building must obtain a building consent in order to carry out the work required by the notice; and
- "(c) if the owner is not required by the territorial authority to obtain a building consent, state—
 - "(i) the conditions (if any) in respect of the work required by the notice; and
 - "(ii) that the work must be carried out in accordance with the guidelines (if any) issued by the territorial authority on how building work to reduce or remove the danger or to demolish buildings should be carried out in accordance with the building code."

11 Modification of section 126 of Act

Section 126 of the Act is modified by adding the following subsections:

"(4) Subsections (1) to (3) do not apply to a territorial authority that has issued a notice under section 124(1)(c) as modified by the Canterbury Earthquake (Building Act) Order 2010.

cl 14

- "(5) If a territorial authority has issued a notice under section 124(1)(c) as modified by the Canterbury Earthquake (Building Act) Order 2010 and the work required under the notice has not been carried out within the time stated in the notice, the territorial authority may carry out the work required under the notice.
- "(6) The owner of a building is liable for the costs of the work carried out by the territorial authority unless the owner—
 - "(a) applies to a District Court, within 5 days of the work being carried out by the territorial authority, for relief from the obligation to pay the territorial authority's costs; and
 - "(b) the application to the District Court is successful.
- "(7) If the owner is liable for the costs of the work carried out by the territorial authority, the territorial authority may recover its costs from the owner, and the amount recoverable by the territorial authority becomes a charge on the land on which the work was carried out."

12 Building work includes demolition of building

The reference in section 127 of the Act to section 126 is modified to mean section 126 or 129 as each of those provisions are modified by this order.

13 Prohibition on using dangerous, earthquake-prone, or insanitary building under section 128 of Act

Section 128 of the Act is extended so that it applies to any person who fails to comply with section 124(1)(d) of the Act as modified by this order.

14 Modification of owner liability for costs of work under section 129 of Act

- (1) Section 129(3) of the Act is modified by replacing "If the territorial authority takes action under subsection (2)" with "If the territorial authority takes action under subsection (2) and either of the events described in subsection (3A) has occurred".
- (2) Section 129 is modified by inserting the following subsection after subsection (3):

cl 15

"(3A) The events are—

- "(a) the owner of the building has failed to apply to a District Court, within 5 days of the work being carried out, for an order that the owner is not liable for the costs of the territorial authority exercising its powers under this section:
- "(b) the owner's application to a District Court for an order that the owner is not liable for the costs of the territorial authority exercising its powers under this section is unsuccessful."

Extension of provision protecting territorial authority from liability under section 129 of Act

Section 129(4) of the Act is extended by adding "or any liability arising from any work that the territorial authority has, in good faith, carried out under section 126 as modified by the Canterbury Earthquake (Building Act) Order 2010".

16 Exemption from requirement to apply under section 130 to District Court for confirmation of warrant

A territorial authority is exempted from the requirement in section 130 of the Act to apply to the District Court for confirmation of a warrant issued under section 129(2) of the Act.

17 Extension of purpose of section 204 of Act

The purpose of section 204 of the Act as set out in section 204(1) is extended by adding "; and" and also by adding the following paragraph:

"(d) monitor earthquake-affected buildings."

18 Definition of authorised officer extended

The definition of authorised officer in section 222(4) of the Act is extended so that an authorised officer includes any person accompanying the authorised officer.

19 Modifications to Schedule 1 of Act

(1) Schedule 1 of the Act is modified so that the provisions in paragraph (a)(iv) relating to water storage heaters are disapplied.

cl 19

- (2) Schedule 1 of the Act is extended by inserting the following paragraph after paragraph (a):
 - "(aab) the replacement or repositioning of water heaters carried out in accordance with the Plumbers, Gasfitters, and Drainlayers Act 2006, except for systems that—
 - "(i) are not open-vented; or
 - "(ii) have an uncontrolled heat source; or
 - "(iii) have a controlled heat source other than gas or electricity:".
- (3) [Revoked]
- (4) [Revoked]
- (5) [Revoked]
- (6) [Revoked]
- (7) In the event of any inconsistency between this clause and any provision of Schedule 1 of the Act, this clause prevails.

Clause 19(3): revoked, on 23 December 2010, by clause 4 of the Canterbury Earthquake (Building Act) Amendment Order 2010 (SR 2010/466).

Clause 19(4): revoked, on 23 December 2010, by clause 4 of the Canterbury Earthquake (Building Act) Amendment Order 2010 (SR 2010/466).

Clause 19(5): revoked, on 23 December 2010, by clause 4 of the Canterbury Earthquake (Building Act) Amendment Order 2010 (SR 2010/466).

Clause 19(6): revoked, on 23 December 2010, by clause 4 of the Canterbury Earthquake (Building Act) Amendment Order 2010 (SR 2010/466).

Rebecca Kitteridge, Clerk of the Executive Council.

Issued under the authority of the Acts and Regulations Publication Act 1989. Date of notification in *Gazette*: 16 September 2010.

Reprinted as at 23 December 2010

Notes

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- 1 General
- 2 Status of reprints
- 3 How reprints are prepared
- 4 Changes made under section 17C of the Acts and Regulations Publication Act 1989
- 5 List of amendments incorporated in this reprint (most recent first)

Notes

1 General

This is a reprint of the Canterbury Earthquake (Building Act) Order 2010. The reprint incorporates all the amendments to the order as at 23 December 2010, as specified in the list of amendments at the end of these notes.

Relevant provisions of any amending enactments that contain transitional, savings, or application provisions that cannot be compiled in the reprint are also included, after the principal enactment, in chronological order. For more information, *see* http://www.pco.parliament.govt.nz/reprints/.

2 Status of reprints

Under section 16D of the Acts and Regulations Publication Act 1989, reprints are presumed to correctly state, as at the date of the reprint, the law enacted by the principal enactment and by the amendments to that enactment. This presumption applies even though editorial changes authorised by section 17C of the Acts and Regulations Publication Act 1989 have been made in the reprint.

This presumption may be rebutted by producing the official volumes of statutes or statutory regulations in which the principal enactment and its amendments are contained.

3 How reprints are prepared

A number of editorial conventions are followed in the preparation of reprints. For example, the enacting words are not included in Acts, and provisions that are repealed or revoked

Notes

are omitted. For a detailed list of the editorial conventions, see http://www.pco.parliament.govt.nz/editorial-conventions/ or Part 8 of the Tables of New Zealand Acts and Ordinances and Statutory Regulations and Deemed Regulations in Force.

4 Changes made under section 17C of the Acts and Regulations Publication Act 1989

Section 17C of the Acts and Regulations Publication Act 1989 authorises the making of editorial changes in a reprint as set out in sections 17D and 17E of that Act so that, to the extent permitted, the format and style of the reprinted enactment is consistent with current legislative drafting practice. Changes that would alter the effect of the legislation are not permitted. A new format of legislation was introduced on 1 January 2000. Changes to legislative drafting style have also been made since 1997, and are ongoing. To the extent permitted by section 17C of the Acts and Regulations Publication Act 1989, all legislation reprinted after 1 January 2000 is in the new format for legislation and reflects current drafting practice at the time of the reprint.

In outline, the editorial changes made in reprints under the authority of section 17C of the Acts and Regulations Publication Act 1989 are set out below, and they have been applied, where relevant, in the preparation of this reprint:

- omission of unnecessary referential words (such as "of this section" and "of this Act")
- typeface and type size (Times Roman, generally in 11.5 point)
- layout of provisions, including:
 - indentation
 - position of section headings (eg, the number and heading now appear above the section)
- format of definitions (eg, the defined term now appears in bold type, without quotation marks)
- format of dates (eg, a date formerly expressed as "the 1st day of January 1999" is now expressed as "1 January 1999")

Reprinted as at 23 December 2010

Notes

- position of the date of assent (it now appears on the front page of each Act)
- punctuation (eg, colons are not used after definitions)
- Parts numbered with roman numerals are replaced with arabic numerals, and all cross-references are changed accordingly
- case and appearance of letters and words, including:
 - format of headings (eg, headings where each word formerly appeared with an initial capital letter followed by small capital letters are amended so that the heading appears in bold, with only the first word (and any proper nouns) appearing with an initial capital letter)
 - small capital letters in section and subsection references are now capital letters
- schedules are renumbered (eg, Schedule 1 replaces First Schedule), and all cross-references are changed accordingly
- running heads (the information that appears at the top of each page)
- format of two-column schedules of consequential amendments, and schedules of repeals (eg, they are rearranged into alphabetical order, rather than chronological).

5 List of amendments incorporated in this reprint (most recent first)

Canterbury Earthquake (Building Act) Amendment Order 2010 (SR 2010/466)