



# Sidewalk Survey

Concrete Coalition Toolkit

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## About the Concrete Coalition

- ▶ The Concrete Coalition is a network comprised of individuals, governments, institutions, and agencies with an interest in assessing and mitigating the risk associated with dangerous non-ductile concrete buildings.



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# The Concrete Coalition Toolkit

- ▶ The components of the concrete coalition toolkit provide details about ways you can assess the risk and move towards solutions in your community



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## Sidewalk Survey

### Assessing Risk

- ▶ **Objective:** The goal of sidewalk surveys is to ground-truth information from different sources. Sidewalk surveys will provide the best estimates of the number of potentially vulnerable reinforced concrete buildings



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# Sidewalk Survey

## Summary of Procedure

- ▶ Gather background data
- ▶ Preliminary walk-around
- ▶ Assemble Building list
- ▶ Cross-reference with existing data sets
- ▶ Second walk-around to capture missing buildings
- ▶ Reconcile discrepancies
- ▶ Total buildings and write report



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## 1. Gather Background Data

- ▶ There are many resources available to help you compile a list of addresses to be used in your sidewalk survey
  - Assessor Data, Zoning Map, Sanborn Maps
- ▶ Building officials generally have excellent information about their jurisdictions
  - Could ask him/her to estimate number of concrete buildings
  - Ask which areas are post-1980 construction
  - Where are older concrete buildings likely to be found?



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## 2. Preliminary Walk-Around

- ▶ Determine the areas of the city that you would like to survey
  - Zoning maps can help you determine areas of interest
- ▶ Develop a form to collect desired information about each suspected older reinforced concrete building
  - Form should include: Address, Number of Stories, Torsional, Frame or Shear Wall, Photo
- ▶ Conduct building by building survey of areas of interest and document any older reinforced concrete buildings (organizing a large volunteer effort will help expedite this part)



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## 3. Assemble Building List

- ▶ Develop a list of buildings by combining:
  - List from initial walkthrough
  - List from Sanborn Map
  - Lists from library research.
- ▶ Take note of locations where there are conflicts
- ▶ You can do some verification with Google maps



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## 4. Second Walk-Around

- ▶ Additional resources may identify a large number of buildings not observed during the preliminary walk-around
- ▶ Conduct a second walk-around to capture information about these additional buildings



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## 5. Reconcile Discrepancies

- ▶ After your second walk-around there may still be a number of structures where your walkthrough disagrees with the other data like the Sanborn maps.
- ▶ Determine how you will reconcile these differences, re-visiting questionable buildings if necessary.



An example can be found [here](#).

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## 6. Report

- ▶ Write a summary report of your findings
- ▶ Know your audience
  - Make sure the report presents information in a way that is easy to understand for your target audience: policy makers, planners, residents



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## Tips

- ▶ Supplies for Walk-around
  - Map, Clipboard, Camera, Bicycle, Survey Form and Data Sheet
- ▶ Use knowledge of the City to:
- ▶ Be prepared for troublesome areas:
  - No access to some military installations
  - Some buildings are conglomerations of building types
  - Modified buildings
- ▶ Dating buildings of unknown construction date can be informed by:
  - Use of historic aerial photos
  - Building department records
  - Guidance from building official
  - Judgment/Estimates



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## Next Steps

- ▶ Once you have estimates of the number of potentially vulnerable buildings, you can work towards mitigating the risk
- ▶ See the other items in the toolkit to get you started on that process



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## Resources

- ▶ Downloadable checklist
- ▶ PDF/Powerpoint files of presentation
- ▶ Completed and ongoing efforts

All available at:

[www.concretecoalition.org/tool-kit/visual-categorization](http://www.concretecoalition.org/tool-kit/visual-categorization)



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