Nonductile Concrete Buildings
City of Alameda

Concrete Coalition Workshop
San Francisco
February 24, 2009

Dave McCormick

City of Alameda - Strategy

• “Walk” the City
• Visit Library
• Contact Building Official and ask for help

Initial Strategy

• “Walk” the City
  – Use of Google map – broke City in 30 sectors and printed out on 11 x 17 sheets
  – Use knowledge of the City to:
    • Identify the buildings I already know
    • Look in likely locations like commercial districts
  – Record data on form that would provide more than information currently required by coalition
    • Photograph

Google Map
Envisioned Survey Form of Some Type Would Be Used

<table>
<thead>
<tr>
<th>Address</th>
<th>Number of Stories</th>
<th>Torsional?</th>
<th>Frame or Shear Wall</th>
<th>Photo</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Main</td>
<td>2</td>
<td>Yes, corner building</td>
<td>Frame with masonry until</td>
<td>1, 2</td>
<td>Adjacent wood frame buildings with no gap at property lines</td>
</tr>
<tr>
<td>2 3rd St</td>
<td>2</td>
<td>No</td>
<td>Shear wall</td>
<td>3, 4</td>
<td>See what appears to be wall anchors at roof</td>
</tr>
<tr>
<td>66 Oak</td>
<td>1</td>
<td>Yes, open front</td>
<td>?</td>
<td>5, 6</td>
<td>It looks like concrete, should verify</td>
</tr>
<tr>
<td>53 Elm</td>
<td>3</td>
<td>No</td>
<td>Frame</td>
<td>7, 8</td>
<td>Looks like first floor is soft story, much greater floor height</td>
</tr>
</tbody>
</table>

Library Search

- Lots of historic building studies – trying to get buildings qualified for National Historic Building Register
- Lots of studies authored by Woody Minor – Architect
- Found out lots of interesting things about Alameda unrelated to the study.

Sample Data from Library Reference
Contact Building Official

- Mr. Greg McFann has been very helpful to my efforts so far
- Zoning map to help identify residential districts that can be eliminated
- Review Sanborn maps
- Mr. McFann had member of his staff access the Assessor data

Sanborn Maps

- Used by insurance industry and updated until about mid-1980s in Alameda
- Identifies building by construction type
- Able to get through the book in about 4 hours with assistance of Marguerite Bello, S.E.
- Some items uncertain, will require field verification
- Some buildings may have been torn down but Building Official said that is a rare occurrence.
### Summary of Alameda Data

<table>
<thead>
<tr>
<th>Number</th>
<th>Assessor Data</th>
<th>Sanborn Maps</th>
<th>Street Survey</th>
<th>Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Number of Buildings</td>
<td>18,868</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Number of Concrete Buildings</td>
<td>12,674</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-1980 Buildings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-1980 Concrete Buildings</td>
<td></td>
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</tbody>
</table>

Plan is to get data from different sources and compare. May need to verify a few items (dates) with permit records at City Hall.