



13-2-19c



'13-2-19e e



13-2-19a



'13-2-19-13

~~P51-2-21~~



'13-2-19 d

2-14-13

Tower Cracks

Page 1 of 1

## **Ken Hinshaw**

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**From:** "William Peake" <wtpe@hotmail.com>  
**To:** "Ken Hinshaw" <kenl@redshift.com>  
**Sent:** Wednesday, February 13, 2013 12:00 PM  
**Subject:** David Wessel visit notes

Ken,  
For your reading enjoyment. See you tomorrow.  
Bill

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David Wessel visit notes  
February 12, 2013

### **Inspection of tower cracks**

- <!--[if !supportLists]-->1. <!--[endif]-->Tower thickness is approximately 13 inches
- <!--[if !supportLists]-->2. <!--[endif]-->Steel bars in upper cement tower wall are 8 inch on center.
- <!--[if !supportLists]-->3. <!--[endif]-->At this height (near or a few feet above the roofline) there is an interior circumferential hairline crack. This crack is not of concern because it is probably due to differential setting of plaster between pours, and does not extend into the bricks.
- <!--[if !supportLists]-->4. <!--[endif]-->At this height (near or a few feet above the roofline) there are exterior near -horizontal and vertical cracks within exposed brick and mortar. These cracks appear significant and could have an aperture of 1/8 inch or more. These exterior cracks don't appear to correspond to any interior cracks. There are 2 main sets of cracks at approximately the same horizon, one on the northwest and another on the northeast which is more extensive.

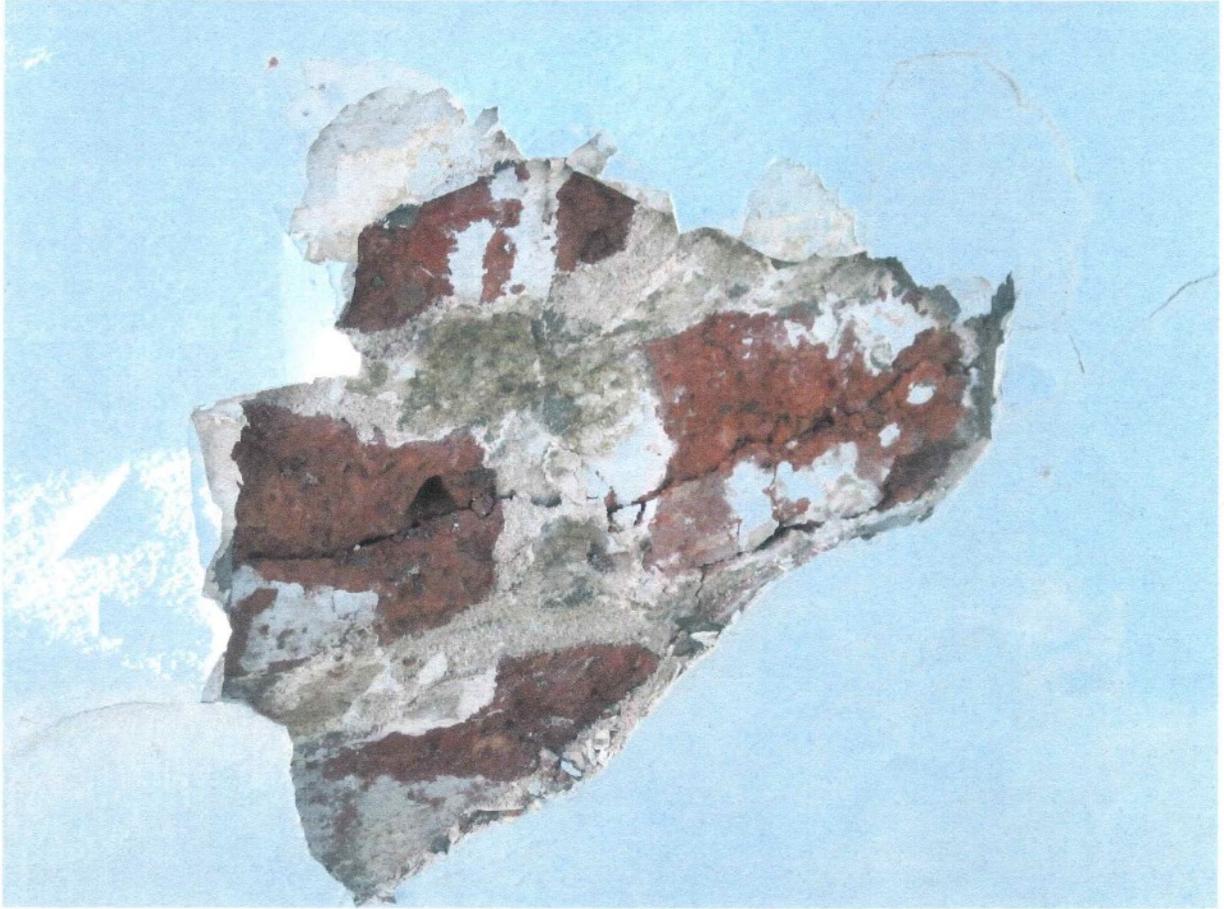
### **Exterior Crack Recommendations**

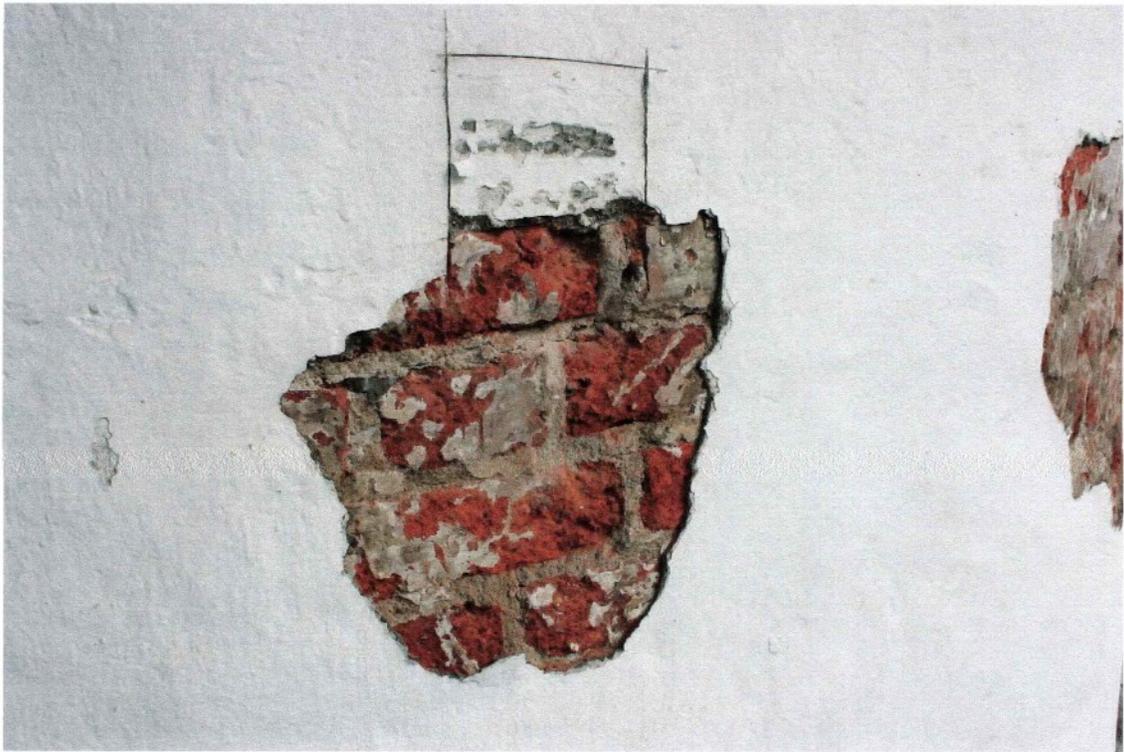
- <!--[if !supportLists]-->▪ <!--[endif]-->Remove a few bricks to investigate depth of cracks; use a hammer drill to remove brick; should be easy to replace; after removing bricks send David pictures to review
- <!--[if !supportLists]-->▪ <!--[endif]-->Cracks in mortar are of less concern than in bricks; cracks halfway through the brick wall are of concern. These were probably caused by seismic events.
- <!--[if !supportLists]-->▪ <!--[endif]-->Use a metal detector to locate any metal reinforcement within the bricks, and see if their location in any way corresponds to observed cracks
- <!--[if !supportLists]-->▪ <!--[endif]-->Consider repairing cracks by epoxy injection (also called pressure grouting); will probably need a contractor – who will determine cost by adding labor and material cost (epoxy is expensive and you might use a lot filling large voids).

### **Exterior Painting Recommendations**

- Suggest acrylic paint, but first test adhesion on a small area
- Prior to painting desalt surface by using a chloride wash (?)

2/13/2013





4-20-12



4-20-12





3-23-12  
So wall out

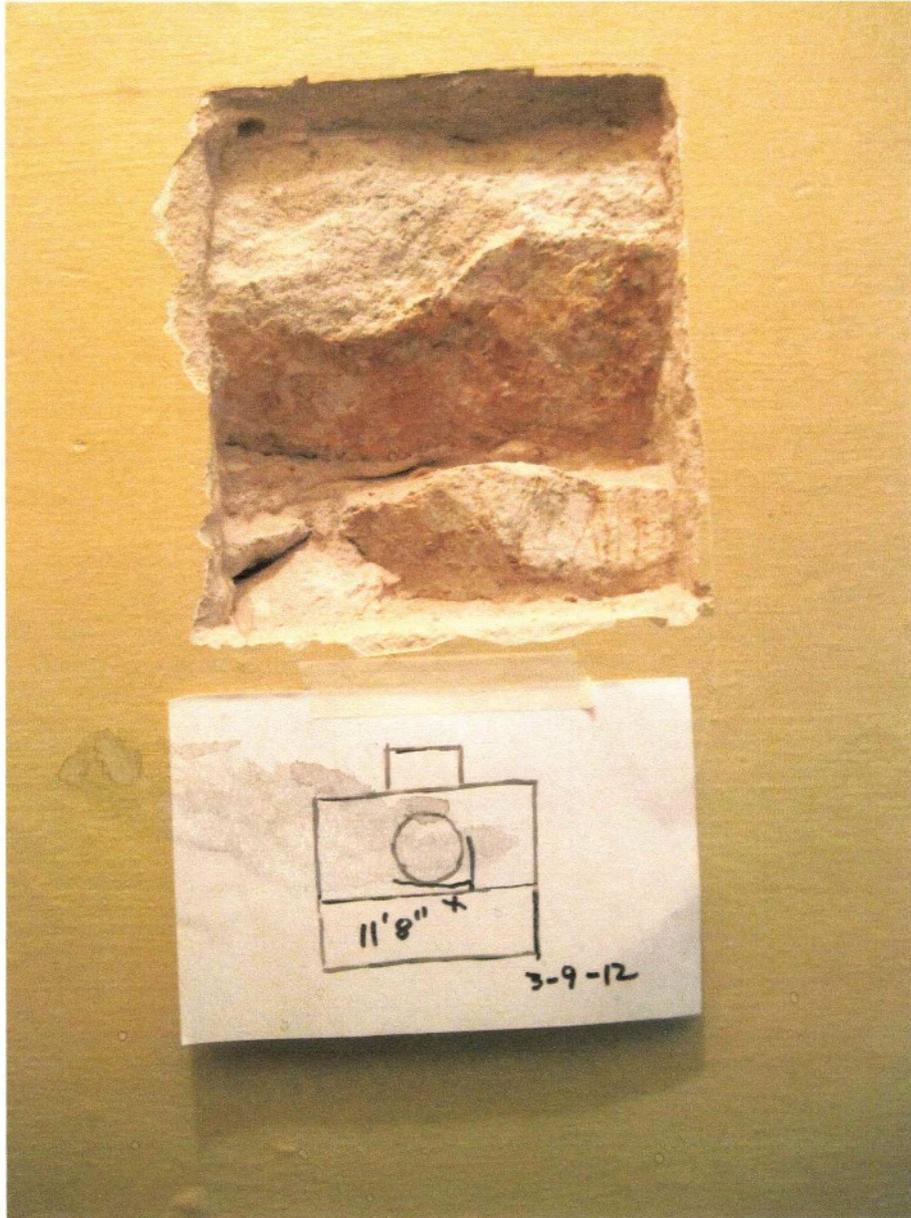












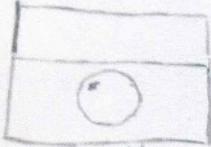
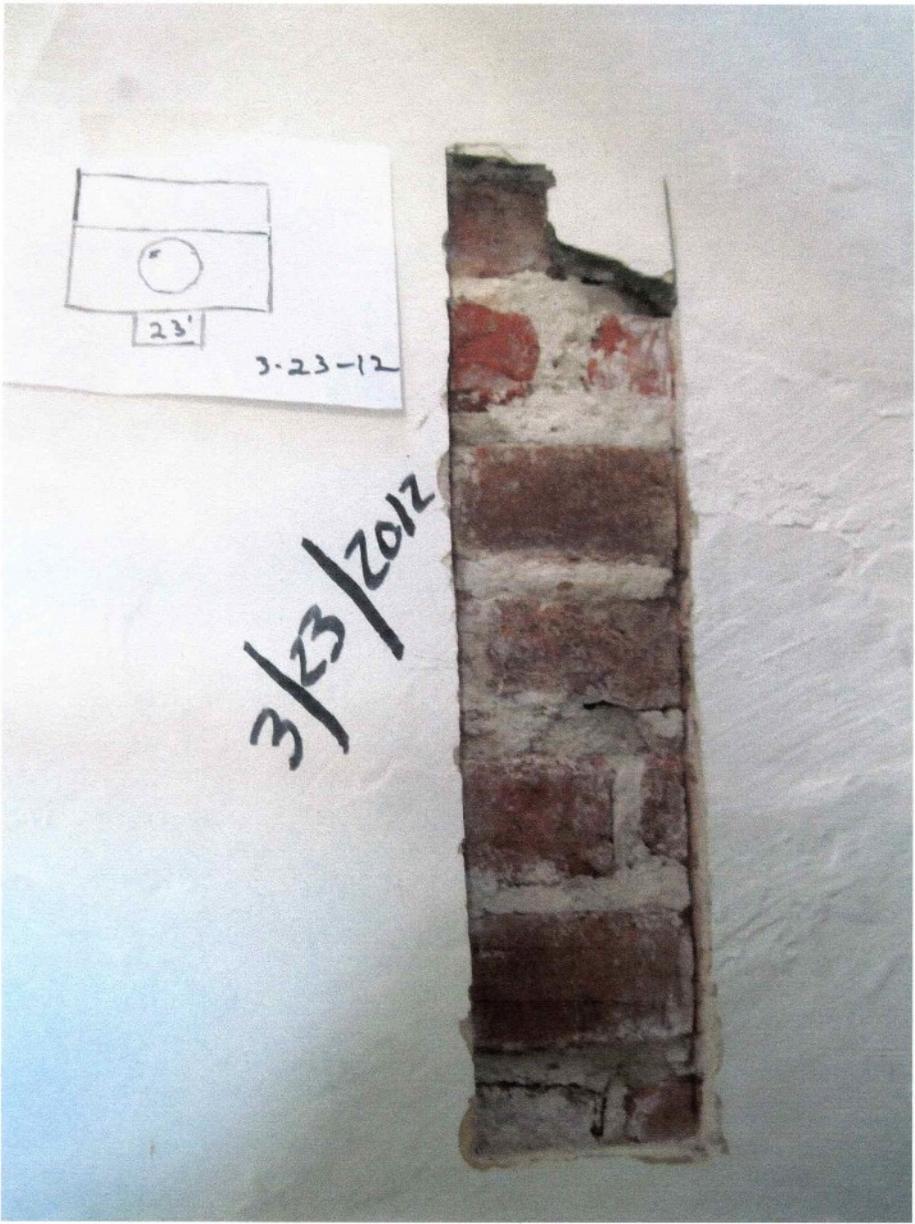
1st floor  
Parlor closet



1st Floor Dining Room  
closet  
(used for "store")



2nd floor  
Emily Fish Bedroom  
closet



23

3-23-12

3/23/2012