HOME, SAFE HOME. SEISMIC SAFETY & REHABILITATING HISTORIC HOMES

Six webinars. A team of preservation professionals. One goal.

Welcome.

Jenan Saunders

Deputy State Historic Preservation Officer and Tribal Liaison California Office of Historic Preservation





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Six webinars. A team of preservation professionals. One goal.

Keep it Lookin' Great

Workshop #5 | November 8, 2022

John Lesak, AIA, FAPT, Principal, Page & Turnbull
Sarah Brummett, Assoc. AIA, Senior Associate, Page & Turnbull



HOME, SAFE HOME.

SEISMIC SAFETY & REHABILITATING HISTORIC HOMES

Workshop #1: What Makes My Home 'Historic'? | Thursday, June 23, 2022

Workshop #2: Is 'Compatible' 'Matchy-Matchy'? | Tuesday, July 26, 2022

Workshop #3: Seismic Retrofit Basics | Tuesday, August 30, 2022

Workshop #4: Retrofit Projects | Thursday, October 6, 2022

Workshop #5: Keep it Lookin' Great | Tuesday, November 8, 2022

Workshop #6: The Nuts and Bolts of Retrofits | Thursday, December 15, 2022

Program offered by:



Grant funding from:



Presented by:











WORKSHOP #5 OBJECTIVES

Take pride in your historic home and keep it looking great. You will learn:

- Why historic home maintenance is critically important.
- How to differentiate between maintenance, repair, and replacement.
- Considerations in prioritizing, scheduling, and budgeting projects.
- The aspects of cyclical maintenance for roofs, windows, finishes and unique elements of historic homes
- Financing and Funding Tools and Resources



Agenda

- 1. Workshop #4 Recap
- 2. Importance of Maintenance
 - a. Maintenance, Repair, or Replacement?
 - b. Aspects of Cyclical Maintenance
- 3. Project Priorities,
 Scheduling, and Budgeting
- 4. Financing & Funding Tools and Resources
- 5. Summary & Questions



In what region do you live?

Did you attend Workshop #4 or any of the prior workshops?



In what capacity are you interested in this topic? As a(n)...?



Do you have any specific maintenance concerns?



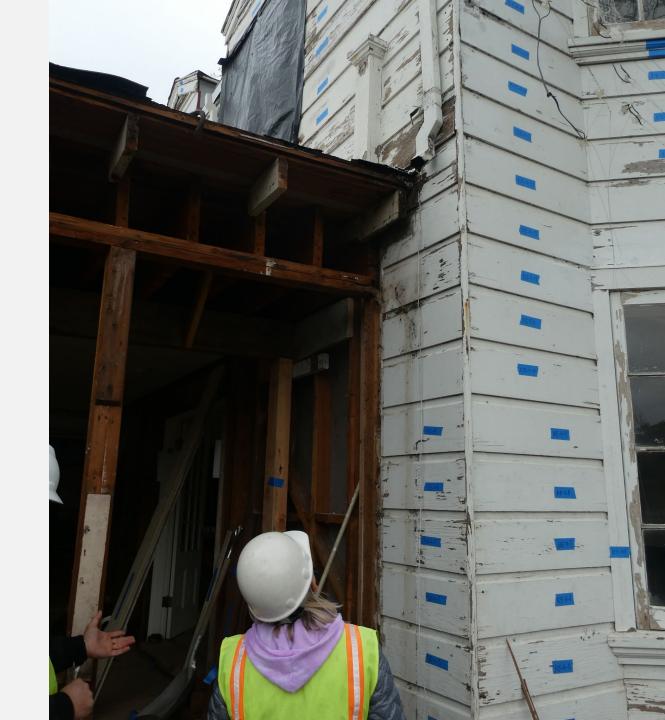
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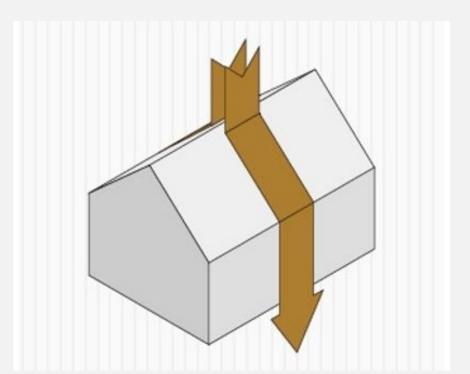
WORKSHOP #4 RECAP

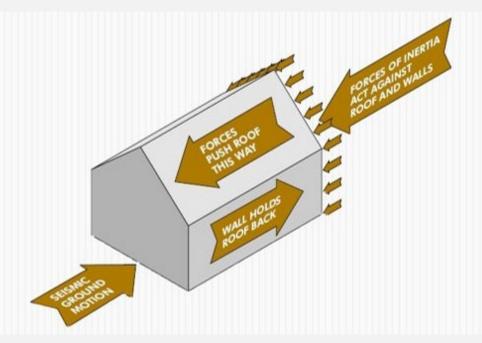
- Evaluate Your House
- Retrofit Strategies
- Retrofit Techniques & Examples
- Priorities & Phasing
- Every Improvement Helps!



Evaluate Your House

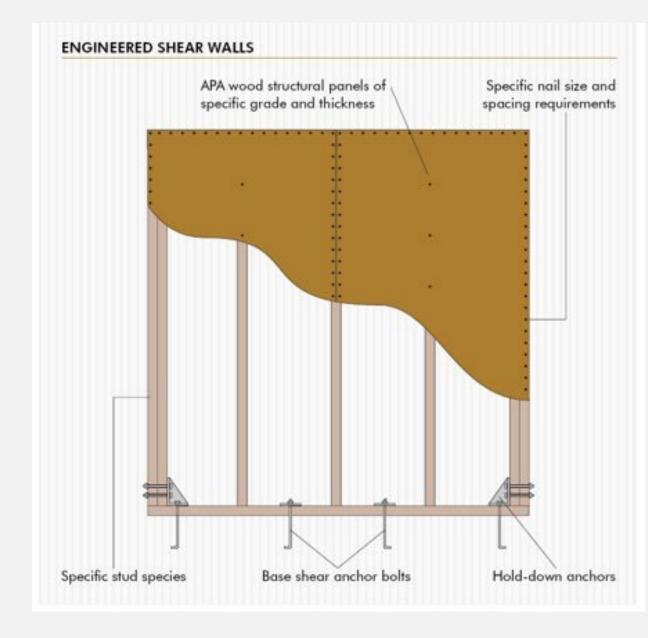
- Building Layout & Configuration
 - Box-Type Structure?
 - Re-Entrant Corners/Irregularities?
 - Open-Front Buildings/Areas?
- Load Path
 - Vertical Load Path
 - Lateral Load Path
- Connections
 - Roof, Walls, & Foundation
 - Projecting Elements
 - Equipment





Retrofit Strategies

- Enhance Performance of Existing Elements
- Add Elements
- Improve Connections
- Identify & Address Weak Links



Retrofit Techniques & Examples

- Roof Sheathing
- Collectors
- Shear Walls
- Foundation





Priorities & Phasing

Ranking Retrofit Measures

• Stand back and review the needs.

- What might be the priorities for my house construction type?
- Are there any home improvements that I might integrate seismic retrofit into?
- For much of this work a qualified Engineer (or Architect) will be necessary.

1. Cripple Wall Bracing

Wood Frame Structures

- 2. Anchor Bolts to Foundation
- 3. Open Fronts
- 4. Porches / Falling Hazards
- 5. Shearwall Additions
- 6. Chimney

Masonry Structures

- 1. Parapet and Gable Bracing (Chimney?)
- 2. Falling Hazards
- 3. Out-of-plane Wall Anchors (Chimney?)
- 4. Diaphragm Capacity
- 5. Wall Stability (h/t ratio)
- 6. In-plane shear

Reminder: Don't forget non-structural features!

https://www.earthquakecountry.org/library/ECA_Step_1_SecureYourSpace_Document-EN.pdf

Every Improvement Helps!

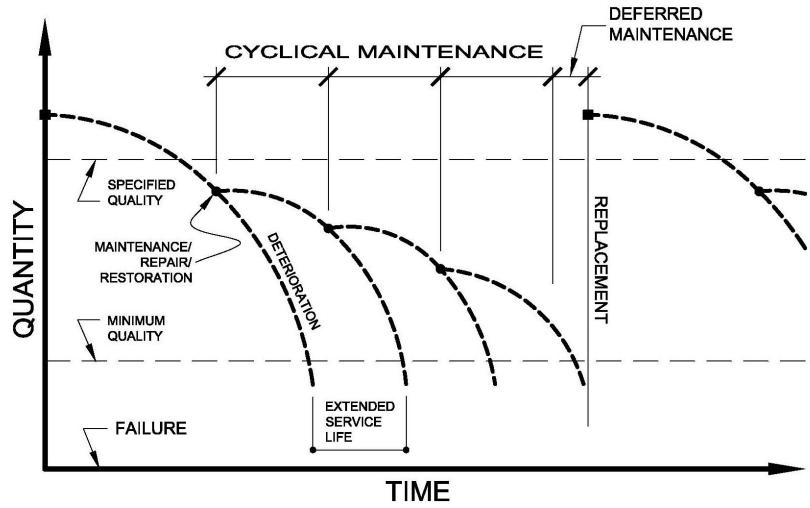
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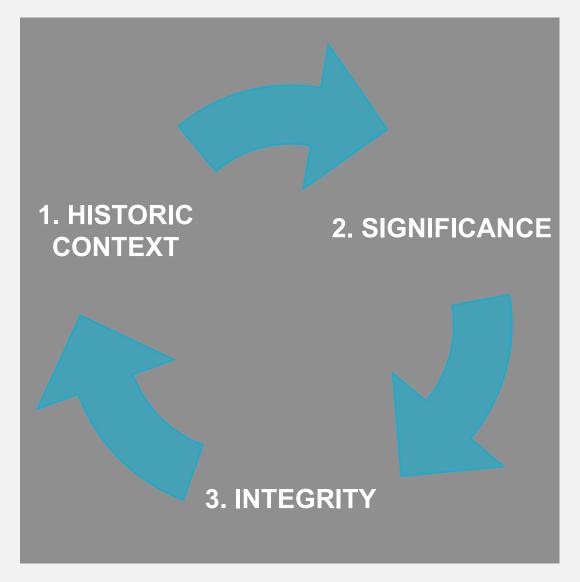
Why Maintain?

- Safety
- Higher Re-Sale Value
- Spend less on repairs
- Curb Appeal



Adapted from *Enclosure Durability* by Ted Kesik Architectural Science Forum September 2002 http://www.cdnarchitect.com/asf/enclosure_durability/index.htm

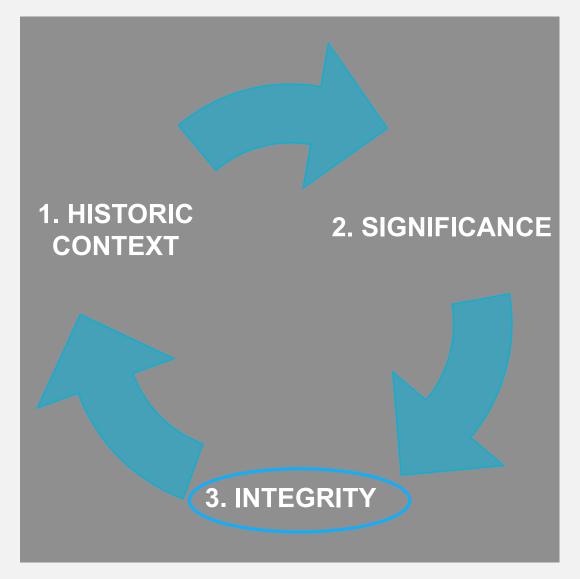
What Makes a Home Historic?







What Makes a Home Historic?







Integrity & Maintenance

Integrity is judged by whether the significant features of the property are present, and whether the property retains the identity for which it is significant. Historic integrity is composed of seven qualities.

- 1. Materials
- 2. Design
- 3. Feeling
- 4. Location
- 5. Association
- 6. Workmanship
- 7. Setting



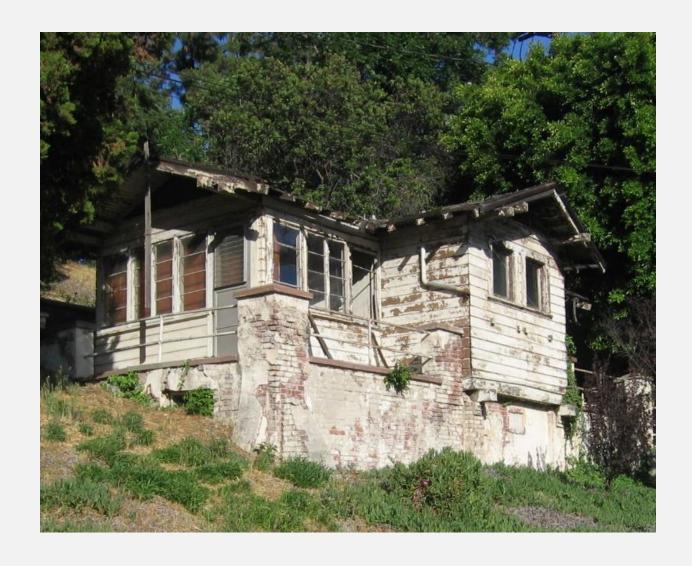






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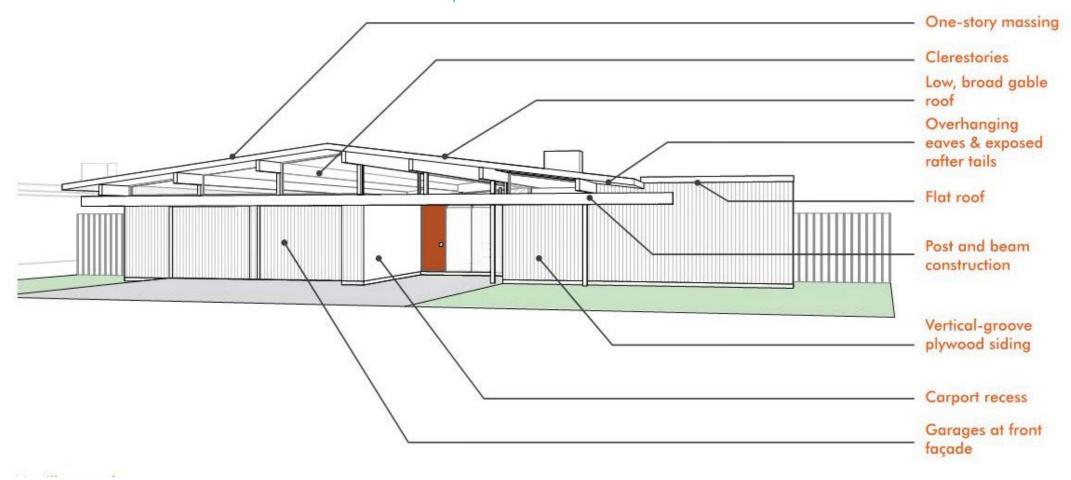
Important Note About Integrity



Condition is NOT the same as historic integrity. Buildings with evident signs of deterioration can still retain eligibility for historic listing as long as it can be demonstrated that they retain enough character-defining features to convey their significance.

Character-Defining Features

The elements or architectural components which establish the visual character of your home. They are the physical parts of both the exterior and interior that should be retained and preserved.



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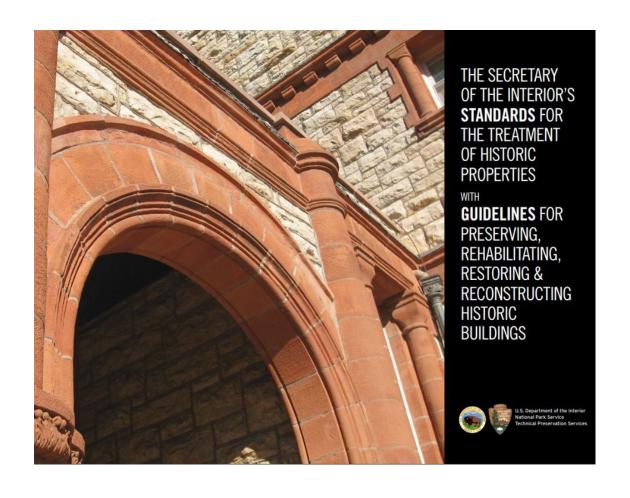


Secretary of the Interior's Standards & Guidelines

The Standards are a series of concepts about maintaining, repairing, and replacing historic materials, as well as designing new additions or making alterations.

- Four distinct approaches (or treatments)
 with accompanying Guidelines
- Preservation, Restoration, Rehabilitation, and Reconstruction

The <u>Standards and Guidelines together</u> provide a <u>framework and guidance</u> for decision-making about <u>work or changes to a historic property</u>.



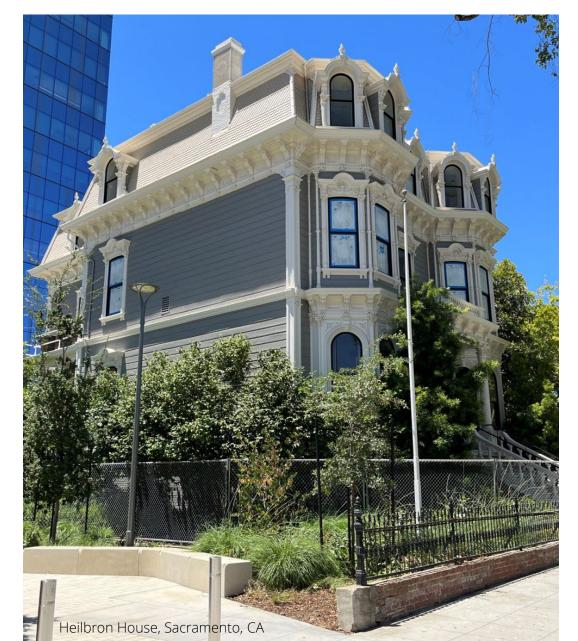
Secretary of the Interior's Standards & Guidelines:

Preservation

<u>Preservation</u> is defined as the act or process of applying measures necessary to sustain the existing form, integrity, and materials of an historic property.

- Preliminary measures to **protect and stabilize**
- Focus on the <u>ongoing maintenance and repair</u>
- New exterior additions are not within the scope
- <u>Limited and sensitive upgrading</u> of mechanical, electrical, and plumbing systems and other <u>code-required work</u> to make properties functional is appropriate.

https://www.nps.gov/articles/000/treatment-standards-preservation.htm

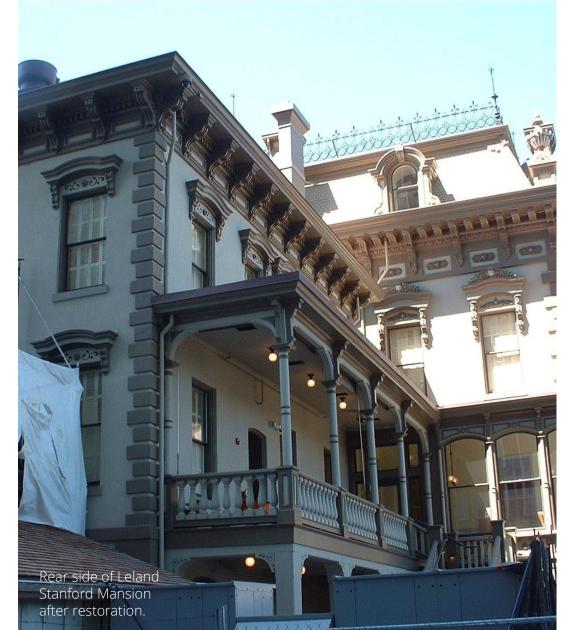


Secretary of the Interior's Standards & Guidelines: Restoration

Restoration is defined as the act or process of accurately depicting the form, features, and character of a property as it appeared at a particular period of time by means of the removal of features from other periods in its history and reconstruction of missing features from the restoration period.

The limited and sensitive upgrading of mechanical, electrical, and plumbing systems and other code-required work to make properties functional is appropriate within a restoration project.

https://www.nps.gov/articles/000/treatment-standards-restoration.htm



Secretary of the Interior's Standards & Guidelines:

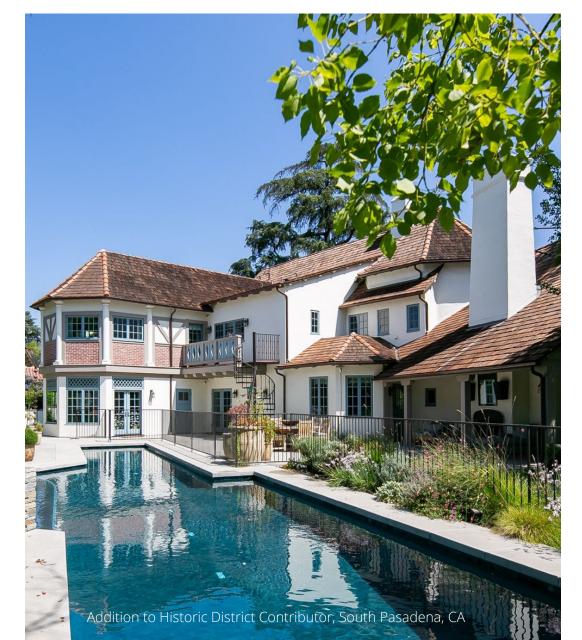
Rehabilitation

Rehabilitation is defined as the act or process of making possible a compatible use for a property through <u>repair</u>, <u>alterations</u>, <u>and additions</u> while preserving those portions or features which convey its historical, cultural, or architectural values.

Rehabilitation is the most commonly used treatment.

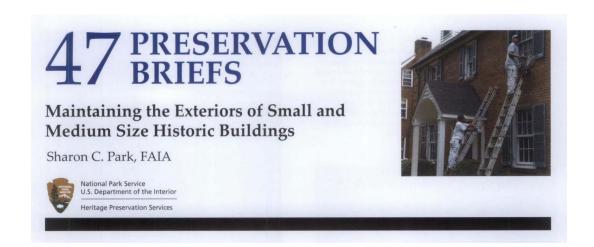
Even if rehabilitation is the overall treatment approach, preservation/restoration/reconstruction treatments may be applied to specific areas/features as appropriate.

https://www.nps.gov/articles/000/treatment-standards-rehabilitation.htm



Guidelines & Briefs

- NPS Preservation Briefs specific guidance for the maintenance and repair of common building materials and components
- SOI Guidelines guidance for the treatment of historic building materials and character-defining features



STANDARDS FOR REHABILITATION & GUIDELINES FOR REHABILITATING HISTORIC BUILDINGS

Rehabilitation

Rehabilitation is defined as the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features which convey its historical, cultural, or architectural values.



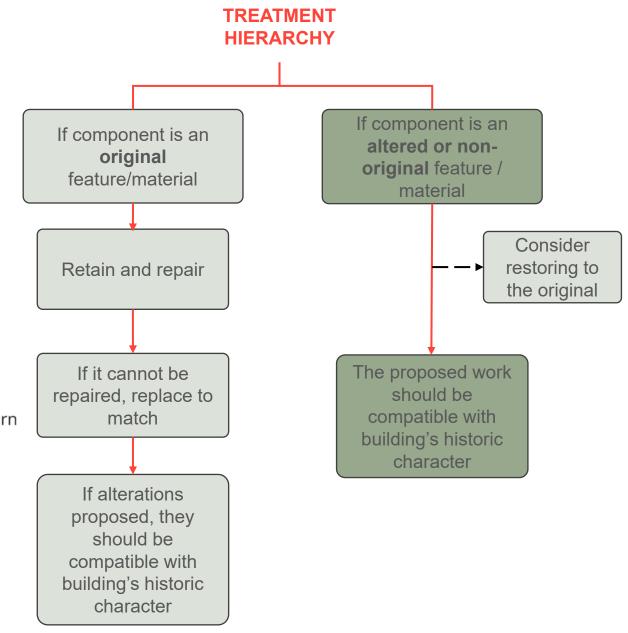
Selecting an Appropriate Treatment

<u>Understand</u> the historic significance and integrity

- Does a feature contribute to the historic significance?
- Is it a character-defining features?



- 3. Side gable roofs
 - a. Rake crown
 - b. Rake frieze
 - c. Central gable
- 4. Boxed eave
 - a. Classical boxed eave return
 - b. Integral gutter
- 5. Entablature
 - a. Cornice
 - b. Frieze
 - c. Architrave
 - d. Soffit
 - e. Bedmold
 - f. Corona/fascia
 - g. Crown



Selecting an Appropriate Treatment CONDITIONS ASSESSMENT

- Is it safe?
 - Can it be stabilized?
- Has it **failed**?
 - Can it be replaced (in-kind)?
- Can it be repaired?
- Can it be **maintained**?



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EXTERIOR – ALL ELEVATIONS

LATERIOR ALL LLEVATIONS			
Feature ROOF	Condition	Project Type	Notes / Photo #
Asphalt Shingles	□ Good □ Fair □ Poor	□ OM □ RP	
Wood Vents	□ Good □ Fair □ Poor	□ OM □ RP	
Wood Dormers	□ Good □ Fair □ Poor	□ OM □ RP	Photo # 1
FAÇADES			
Painted Wood Cornices	□ Good □ Fair □ Poor	□ OM □ RP	Photo # 2
Painted Wood Siding & Trim	□ Good □ Fair □ Poor	□ OM □ RP	
Metal (Copper) Gutter & Downspouts	□ Good □ Fair □ Poor	□ OM □ RP	Photo # 3
WINDOWS AND OPENINGS			
Wood Double- Hung Windows	□ Good □ Fair □ Poor	□ OM □ RP	
Wood Shutters	□ Good □ Fair □ Poor	□ OM □ RP	
Metal Shutter Fasteners & Hinges	□Good □Fair □Poor	□ OM □ RP	Photo # 4
Exterior Wood Doors	□ Good □ Fair □ Poor	□ OM □ RP	

OM = Ongoing Maintenance | RP = Repair Project

Selecting an Appropriate Treatment

PLANNING

- Maintenance/Repair/Replacement
- When / How often?
- Season / Use Factors
- Cost
- Combine with other items?



Maintenance

Proactive

- Helps preserve the integrity of your home and extend the life cycle of its materials and systems.
- Reduces the need for extensive repairs and replacement due to deferred maintenance.





Repair

- Reactive
 - Can be necessary due to acute damage from events like storms or earthquakes.
 - Can also be necessary to correct deterioration due to deferred maintenance
- Should be done sensitively, with compatible materials, and preserve as much of the historic fabric as possible.



Replacement

Reactive

- Components should only be replaced if they are damaged/deteriorated beyond repair.
- When necessary, replacement should be in-kind to match the original component, or of a compatible substitute material if in-kind replacement is infeasible.



Quiz: Maintenance vs. Repair vs. Replacement





A.MaintenanceB.RepairC.Replacement



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A.MaintenanceB.RepairC.Replacement



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A.Maintenance
B.Repair
C.Replacement



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Service Environment





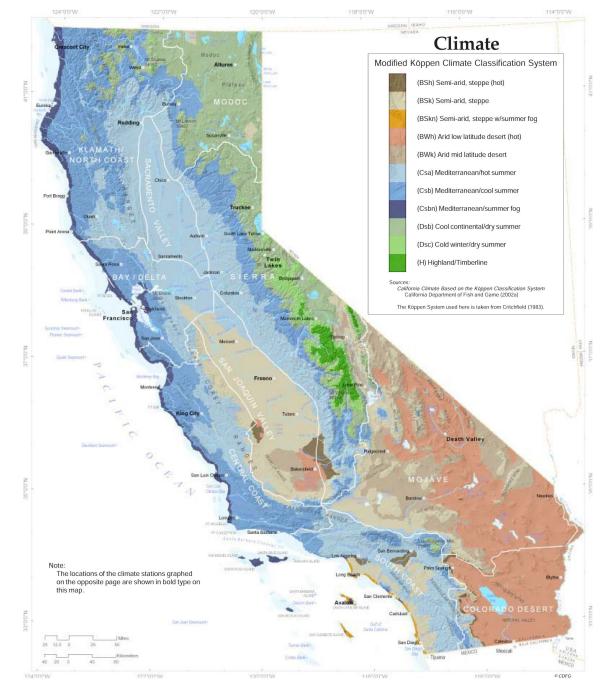




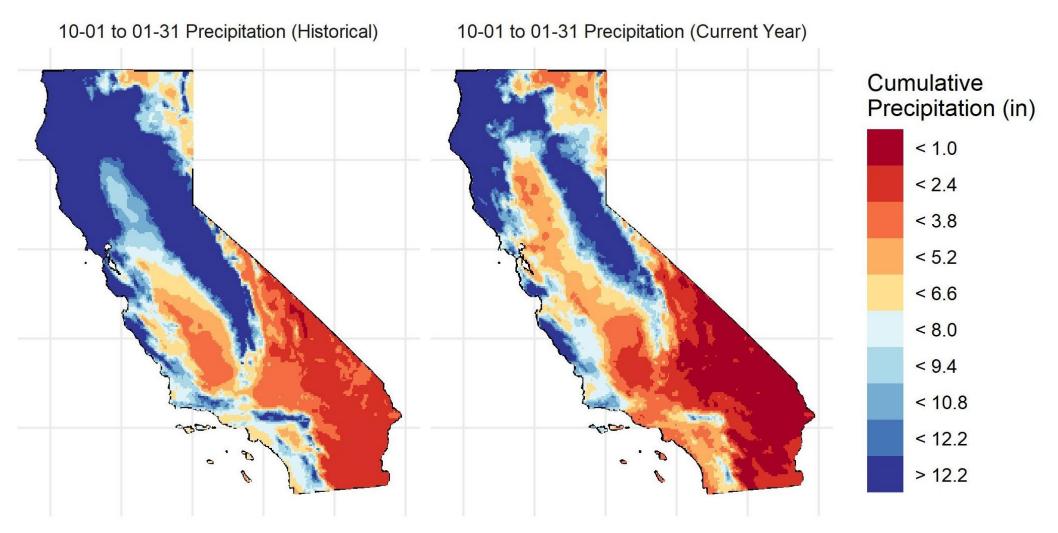
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Climates of California

- Desert/Arid
 - Low latitude (Hot)
 - Mid latitude
- Cool Interior
 - Dry Summer
 - Cold Winter
- Highland/Timberline
- Steppe/Semi-Arid
 - Hot
 - Summer Fog
- Mediterranean
 - Cool Summer
 - Hot Summer
 - Summer Fog



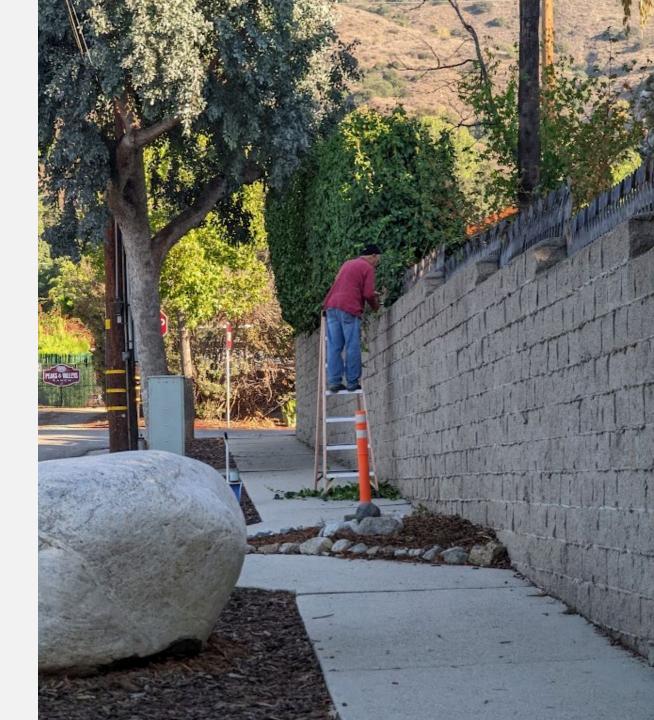
Average Rainfall



Source: ucanr.edu, 2021

Cyclical Maintenance

- Keep a schedule of building features requiring inspection and maintenance.
- Plan and budget for longer-term maintenance items like re-painting and re-roofing.
- Plan and budget for repair projects, if necessary



Cyclic Maintenance – Plan Example

Major Group	Element	Element General Condition	Component	Priority	Description	Quantity	Treatment Cycle	Maintenence Capital, Immediate	Cost - 2020
Site	Walls	Good	Concrete Masonry	Near-Term	Remove efflorescence from CMU wall using gentlest means possible. Spray with water and use cleaners specifically designed for cleaning masonry. Test a small area of the brick prior to the first cleaning.		Next 6-12 months, then annually	I, M	\$2,746
Site	Pool	Varies	Marble Tile	Near-Term	Apply sealer to marble deck tile		Next 6-12 months, then annually	I, M	\$31,008
Site	Walls	Fair	Wood Bulkhead	Near-Term	Paint wood gates. Remove all loose, flakey paint; patch wood. Apply two prime coats/two topcoats		Next 1-2 years, then every 5-7 years or per manufacturer's warranty	, Ι, Μ	\$19,070
Exterior	Roof	Good	Gutters	Near-Term	Clean copper gutters	All gutters	Next 6-12 months, then annually	M	\$6,988
Exterior	Roof	Good	NA	Near-Term	Inspect annually for leaks	Entire Roof	Next 6-12 months, then annually	М	\$2,334
Exterior	Roof	Good	NA	Long-Term	Replace roof with new asphalt shingle roof	Entire Roof	Next 10-15 years, then every 25 years or per manufacturer's warranty	М	\$57,796
Exterior	Windows	Fair	All	Long-Term	Window restoration project: remove sashes and repair, replace hardware, repaint		Next 5-10 years, then every 25 years	М	\$184,596
Interior	Floor Finishes	Poor-to- Fair	Wood Floors	Long-Term	Refinish wood floors		Next 5-10 years, then every 50 years	М	\$44,242
Interior	Bathrooms	Good	Tile Finish	Near-Term	Crack monitoring – historic bathrooms		Annually	М	
Site	Pool	NA	Water	Near-Term	Chemical balance of pool		Monthly	M	\$50

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Plants

- Inspect and trim vegetation annually
- Clear plant debris from roof, grade, and foundation to maintain proper drainage
- Remove vegetation planted too close to the house
- Have large trees inspected for health regularly by an arborist
- Consider defensible space for wildfires





Pests

- Inspect attics, crawl spaces, and foundations for signs of vermin
- Inspect wooden elements for insect damage, such as termites
- Inspect chimneys for birds and bats





Sun

- Inspect coatings on organic building materials, including wood windows, doors, siding, trim, and porches.
- Inspect plastics, sealants, and gaskets





Water

- Inspect gutters and downspouts twice per year
- Inspect foundation and grade drainage
- Inspect windows, doors, roofs, attics, basements, and crawl spaces for leaks
- Inspect chimneys for rising damp and condition of caps.
- Inspect porches, stairs, and railings for rot
 - Inspect for ice in cold climate zones
- Inspect masonry mortar





Wind/Air

- Inspect weather stripping at windows and doors
- Inspect siding, flashing, and roofing for damage or displacement after high wind events, e.g.
 Diablo and Santa Anna winds
- Inspect mortar and flue parge coat at chimneys





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Project Priorities

- Assess Conditions/Evaluate Needs
- Scope Priorities:
 - Life Safety
 - Condition accelerates decay
 - Cyclical Maintenance
 - Cosmetic and Capital Improvements
- Budget
- Scheduling



Project Execution

- Maintenance
 - Self- Perform
 - Hire a Qualified Contractor
- Repair
 - Self- Perform
 - Hire a Qualified Contractor
 - Hire a Designer/Engineer
- Replace
 - Self- Perform
 - Hire a Qualified Contractor
 - Hire a Designer/Engineer



Scheduling Considerations

- Contractor availability
- Project size/duration
- Time of year
- Material availability/lead times



Maintenance Plan

				ESTIMATED MAINTENANCE	
ITEM	DESCRIPTION	UNIT COST	Γ CYLCLE	COST	NOTES
MAINTENANCE					
Wall Panels	Annual inspection and patching of wall panels	\$100.00	Yearly	\$1,420.00	5-percent annual increase over 10 years
Roof & Gutters	Annual inspection and patching of roofing and gutters	\$100.00	Yearly	\$1,420.00	5-percent annual increase over 10 years
Landscape	Prune vegetation away from aluminum panel stuctures. Maintain grades to drain away from house	\$50.00	Bi-monthly	\$4,260.00	5-percent annual increase over 10 years
				\$7,100.00	TOTAL MAINTENANCE

Repair Plan

ITEM	DESCRIPTION	UNIT COST	UNITS		ESTIMATED REPAIR COST	COMPLETE BY	NOTES
I I LIVI	DESCRIPTION	OINII COSI	UNITS		KLFAIK COST	וט	NOTES
WALL PANELS							
Repair holes	Fill holes with resin-based filler	\$100.00	20	ea.	\$2,000.00	Year 1	
	Drill 9 inject adhesive apply new metal where						Most extreme at base of laundry. Includes
Consolidate panels	Drill & inject adhesive, apply new metal where needed		1	ls.	\$6,750.00	Year 1	repair of hole previously cut in panel for AC unit
consolidate parieis	Remove exterior surface mounted conduit.			15.	Ψ0,730.00	TCGI T	din:
Remove conduit	Repair holes in panels		1	ls.	\$3,200.00		
Corner cover	Repair or replace detached corner cover		1	ls.	\$675.00		
<u>Corrier cover</u>	Repair of replace detaction corner cover			13.	\$12,625.00		Subtotal Wall Panels
PAINT					1 7		
Prepare panel surface	Prepare aluminum surface for paint coatings.	\$1.25	1000	sf	\$1,250.00	Year 3	
Paint panel surface	Prime and paint per original colors	\$4.75	1000	sf	\$4,750.00	Year 3	Use high performance coatings.
Prepare windows	Sand & strip to sound surface	\$200.00	10	ea.	\$2,000.00	Year 1	
Paint windows	Paint window frame	\$200.00	10	ea.	\$2,000.00	Year 1	
					\$10,000.00		Subtotal Paint
DOORS							
	Replace existing south and east elevation						
Replace doors	doors and screen doors	\$1,500.00	2	ea.	\$3,000.00	Year 6	New doors to match historic photographs
					\$3,000.00		Subtotal Doors
ROOF							
	Repair or replace damaged northeast eve in-		4		÷6.750.00	., .	Test panel removal and reattachment
Repair damaged eve	kind with new aluminum sheet metal		1	ls.	\$6,750.00	Year 3	methods
Donloss reefing	Remove existing membrane roof. Prepare	¢0.00	1200	c.f	¢0.000.00	V0051	He cilicanized so of continuous to so
Replace roofing Clean and repair existing	surface. Install new roofing Remove, strip paint, replace damaged, and re-	\$8.00	1200	sf.	\$9,600.00	Year 1	Use siliconized roof coating system
gutters	install gutters	\$1,250.00	2	0.2	\$2,500.00	Year 3	
guillers	il istali gutters	\$1,230.00		ea.	\$18,850.00	Tear 5	Subtotal Roof
WINDOWS					\$10,000.00		Subtotal Nool
VVIIVUUVV	Replace chipped and cracked glass panes with						
Replace glass	new.	\$500.00	7	ea.	\$3,500.00	Year 1	
. 0		·			\$3,500.00		Subtotal Windows
					•		
					\$47,975.00		TOTAL EXTERIOR

Budgeting

- Hard (construction)/soft costs
- Soft costs 20-30%
- Contingencies (unknowns)
- Minimum 15% contingency
- Escalation minimum 8-10% annually right now depends on the market.

DOCUMENT 004113 - BID FORM

1.1

1.2

BID II	THE OTHER THOR		
Bidde	er:		
Proje	ect Name:		
Proje	ect Location:		
Owne	er:		
Archi	itect: Page & Turnbull.		
Archi	itect Project Number: 1	7029.	
CER	TIFICATIONS AND BA	SE BID	
exam Draw	nined the Procurement lyings, Specifications, a	nt and Contracting Required all subsequent Addend	e undersigned Bidder, having carefully uirements, Conditions of the Contract, da, as prepared by Page & Turnbull and
requir includ proje	irements of the Work, high	nereby agrees to furnish a wances, necessary to com	d being familiar with all conditions and Il material, labor, equipment and services, plete the construction of the above-named ment and Contracting Documents, for the
requir includ proje	irements of the Work, I ding all scheduled allow ect, according to the re- lated sum of.	nereby agrees to furnish a wances, necessary to com	d being familiar with all conditions and Il material, labor, equipment and services, plete the construction of the above-named ment and Contracting Documents, for the
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required include projection stipul	irements of the Work, It ding all scheduled allow ct, according to the related sum of. (\$	nereby agrees to furnish all wances, necessary to compute quirements of the Procure	d being familiar with all conditions and II material, labor, equipment and services, plete the construction of the above-named ment and Contracting Documents, for the Dollars bollars ts indicated by the Bidder on the attached ment 004323 "Alternates Form."
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Agenda

- 1. Workshop #4 Recap
- 2. Importance of Maintenance
 - a. Maintenance, Repair, or Replacement?
 - b. Aspects of Cyclical Maintenance
- 3. Project Priorities,
 Scheduling, and Budgeting
- 4. Financing & Funding Tools and Resources
- 5. Summary & Questions



Brace and Bolt Grant Program

- Grants for qualifying homeowners for retrofitting cripple walls
- 2022 Applications are open now through November 29!
- More information available about this program in Workshop #4



Mills Act

- Property Tax Abatement Program
- Owner occupied & income-producing properties
- Minimum ten-year contract w/ municipality
 - Varies greatly by city
- Owner agrees to Protect, Preserve, and Maintain property in accordance with Standards





Historic Preservation Easements

- Voluntary legal agreement that protects a Historic Structure
- Federal Tax Deduction equal to value of rights given away to a Qualified charitable organization



State Historic Preservation Tax Credit

- Claim a percentage of project expenses against state income taxes
- Available to homeowners
- Will be administered by the Office of Historic Preservation (OHP) and the California Tax Credit Allocation Committee (CTCAC)
- Expected roll-out early 2023







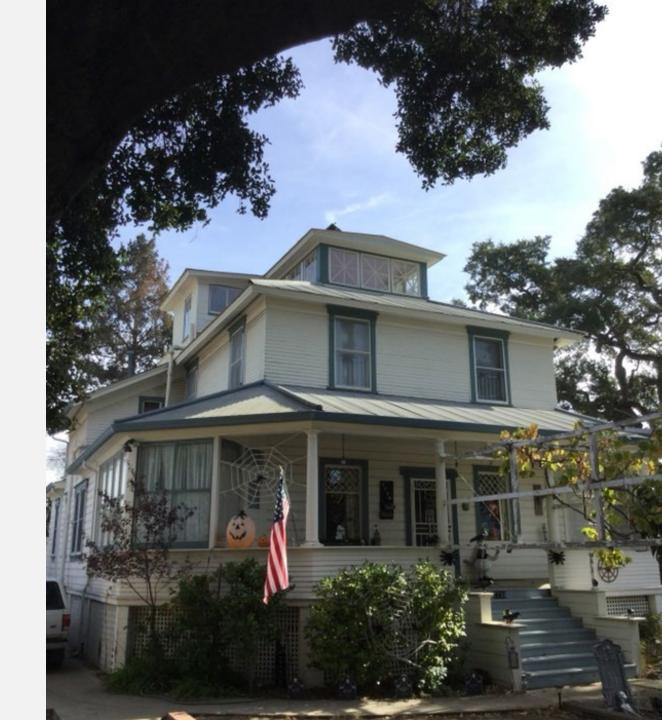
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Summary

- 1. Maintenance helps preserve the integrity of your home
- 2. Maintenance reduces the need for more costly repairs and replacement
- 3. The climate, aspect, and features of a property impact the cyclical maintenance concerns
- 4. Prioritize work for greatest impact, and plan long-term if possible
- 5. Financing & Funding Tools and Resources are available to assist



Workshop #1: What Makes My Home 'Historic'? | Thursday, June 23, 2022

Workshop #2: Is 'Compatible' 'Matchy-Matchy'? | Tuesday, July 26, 2022

Workshop #3: Retrofitting Basic Training | Tuesday, August 30, 2022

Workshop #4: Seismic Retrofits | Thursday, October 6, 2022

Workshop #5: Keep it Lookin' Great | Tuesday, November 8, 2022

Next Workshop - Workshop #6: The Nuts and Bolts of Retrofits | Thursday, December 15, 2022

Questions?



Additional Resources & Further Reading

- Secretary of the Interior's Standards for the Treatment of Historic Properties -https://www.nps.gov/orgs/1739/secretary-standards-treatment-historic-properties.htm
- NPS Preservation Brief #17 Architectural Character Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character
- NPS Preservation Brief #18 Rehabilitating Interiors in Historic Buildings: Identifying and Preserving Character-Defining Elements
- NPS Preservation Brief #47 Maintaining the Exteriors of Small and Medium-Sized Historic Buildings -
- California Office of Historic Preservation https://ohp.parks.ca.gov/
- Virginia Savage McAlester, *A Field Guide to American Houses* (Second Edition), Knopf (2015) https://www.google.com/books/edition/A_Field_Guide_to_American_Houses/fjbaCwAAQBAJ?hl=en&gbpv=0
- California Earthquake Authority Brace & Bolt Program https://www.californiaresidentialmitigationprogram.com/How-to-Pay-for-a-Seismic-Retrofit/Our-Seismic-Retrofit-Grant-Programs
- CalCAP/Seismic Safety Financing Program (https://www.treasurer.ca.gov/cpcfa/calcap/seismic/summary.asp)