

Applying the Secretary's Standards

Repairing or Replacing Windows
Changing Historic Plans

John Sandor

**Technical Preservation Services
National Park Service**



Yes, we are Bureaucrats!

Most Frequent Omissions

- Attestation boxes
- Zipcode extension

Windows

- Assessing deterioration
- Various levels of replacement
- Common inadequacies in matching

Assessing Windows for Repair or Replacement

- Frame integrity
- Sash fit
- Wood condition
- Sash integrity
- Operation
- Glass and putty condition
- Paint condition



Wood deterioration





Frame integrity



Sash integrity

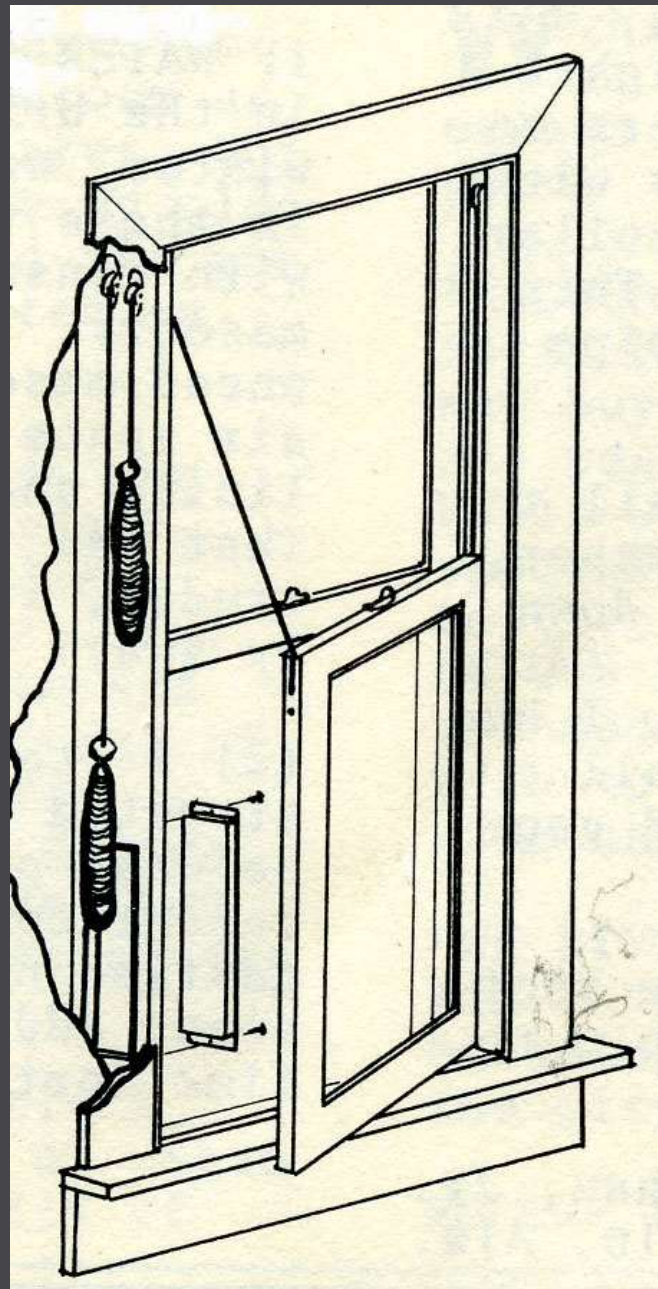






Sash fit





Operation



Glass



Putty





Paint



Levels of Replacement

- New sash - existing or disabled operation
- New sash and track - existing jamb retained
- Insert unit - existing jamb retained
- Full new unit – rough opening installation

New Sash

- Jambs must be sound, and parallel, though out-of-square can be accommodated.
- Sill must be repairable.
- Insulated glass may be introduced, though it will require adding to weights if operable



New sash and track

- Jamb / sill joint should be sound and jambs parallel though out-of-square can be accommodated
- Sill must be repairable
- Sash can be clad & insulated glazed
- Track color may be an issue

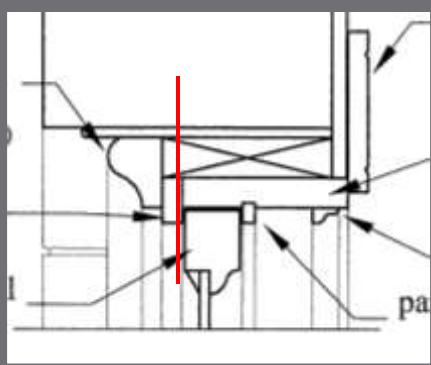
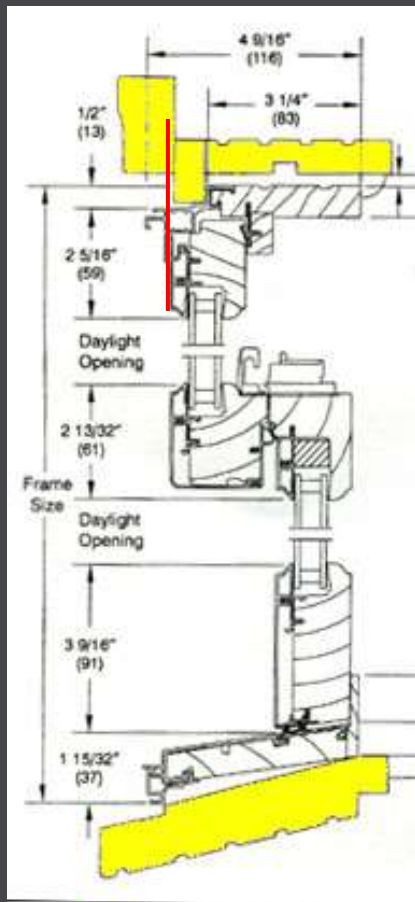


Insert Unit

- Sill and jamb must be adequate to support attachment
- Out-of-square accommodated with caulk
- Interior trim left in place
- Wood, aluminum, polymer, fiberglass
- Adds small extra step to frame





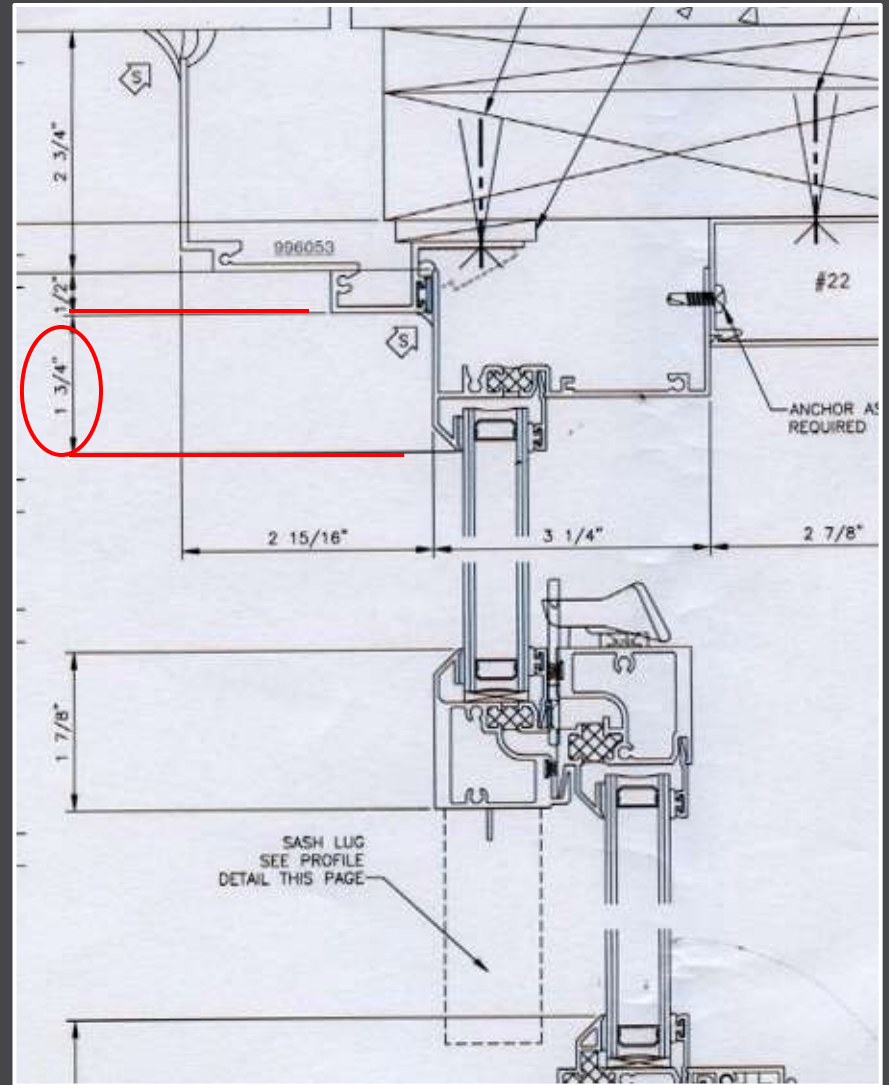
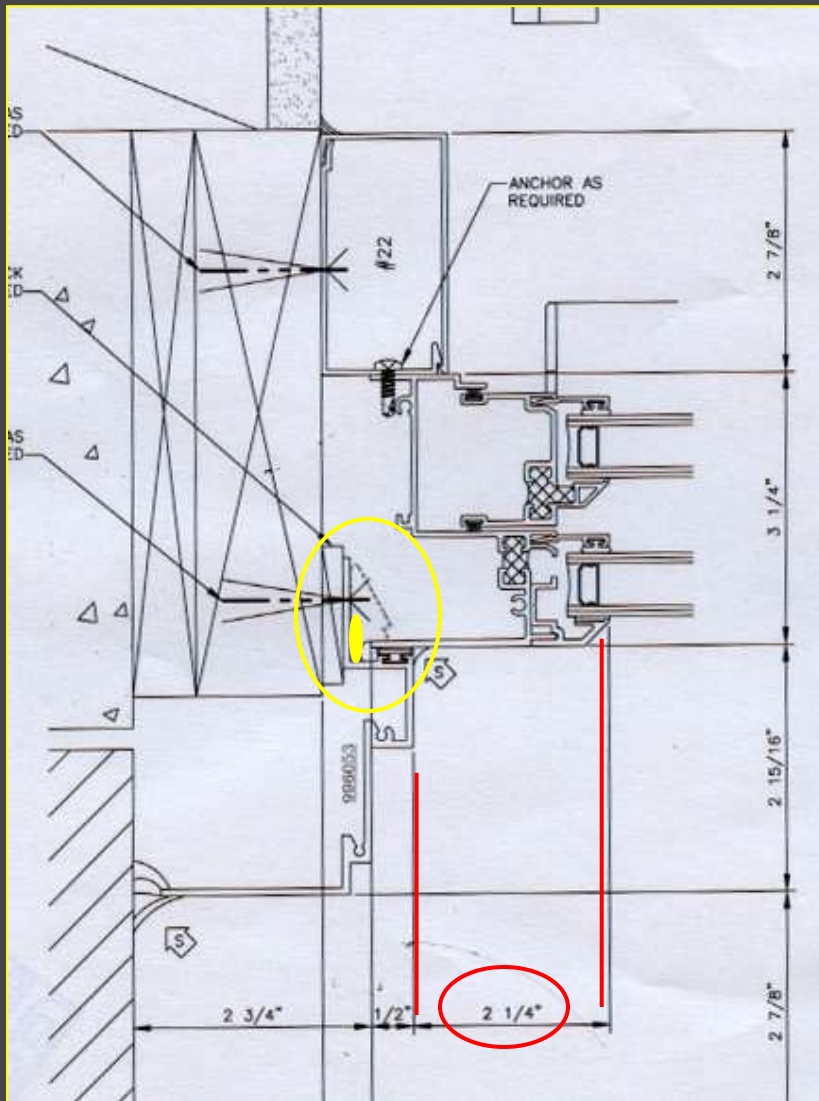


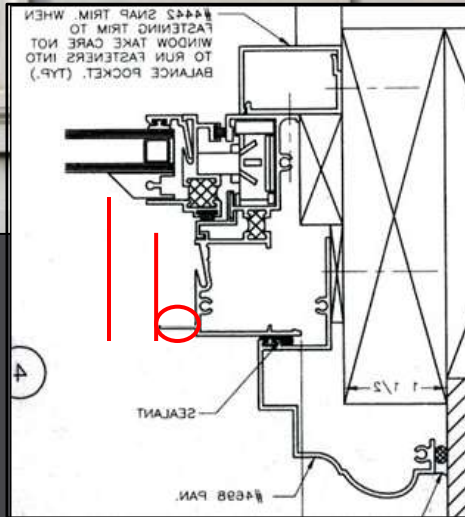


Full Unit Replacement











Plan

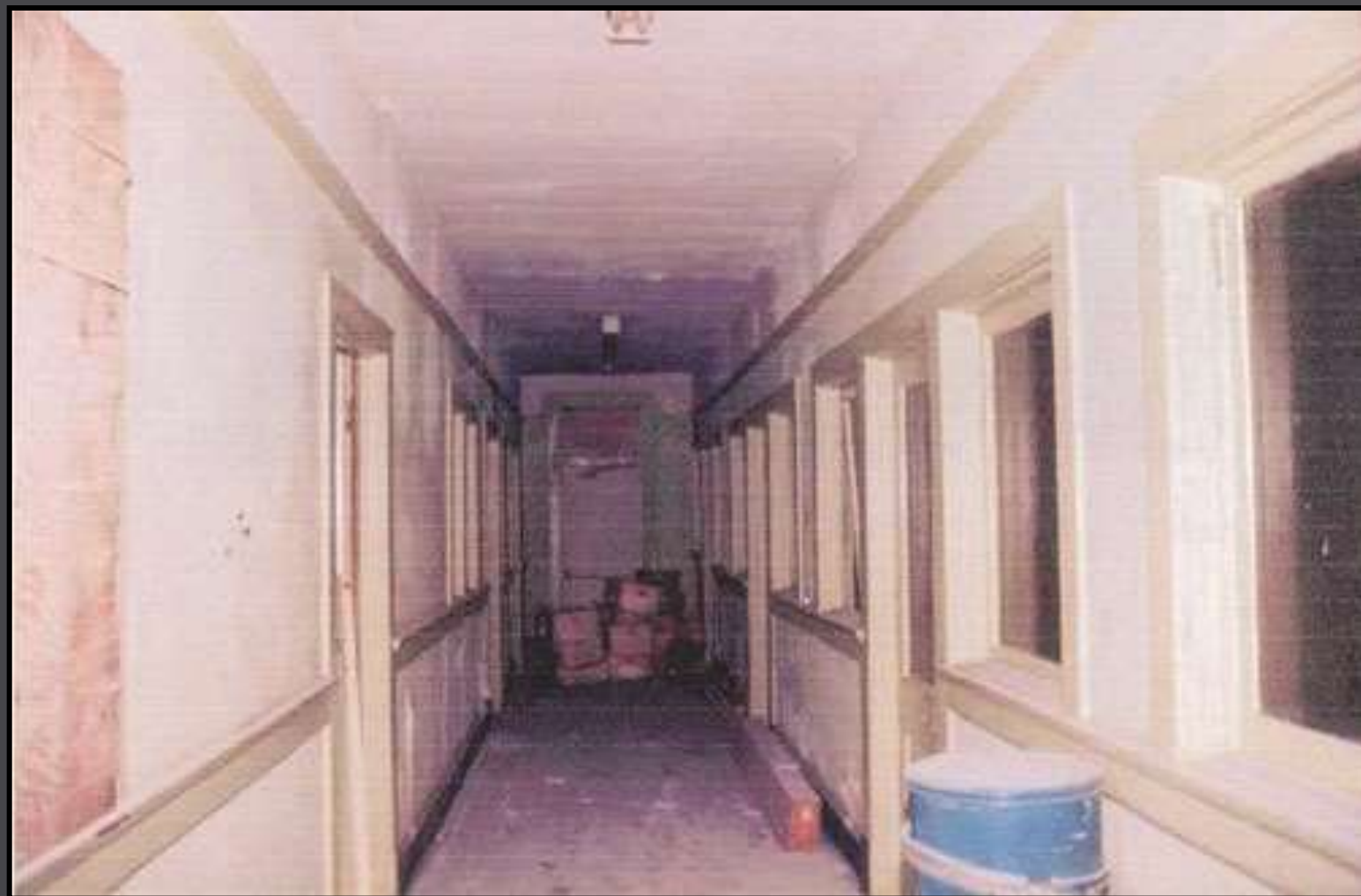
- When must corridors be retained?
- How much can they be changed?







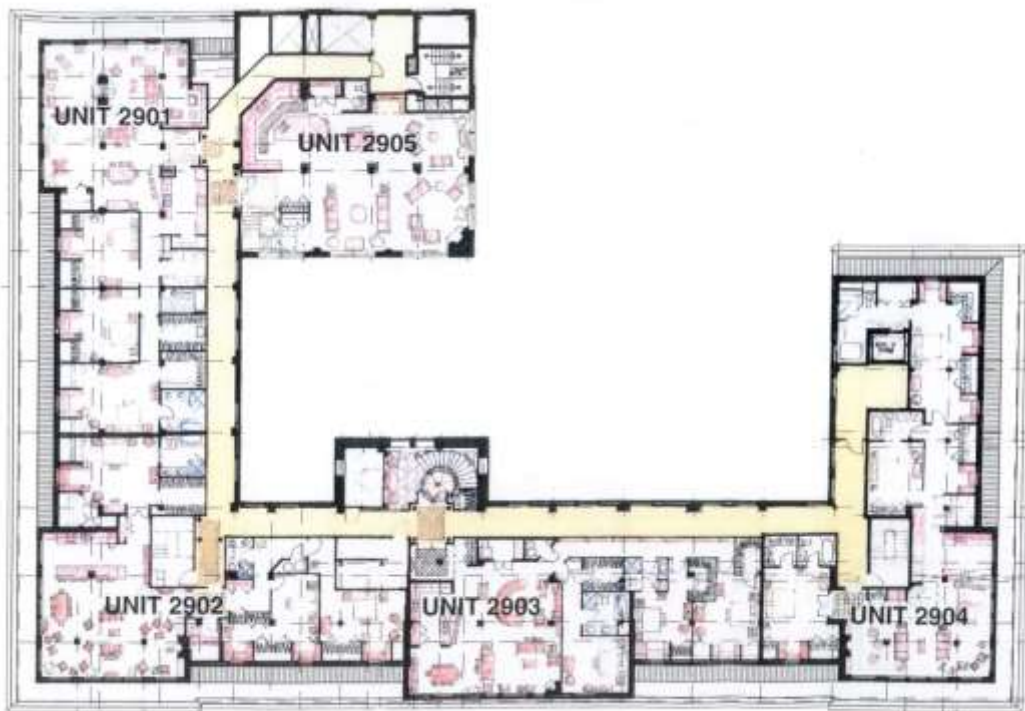


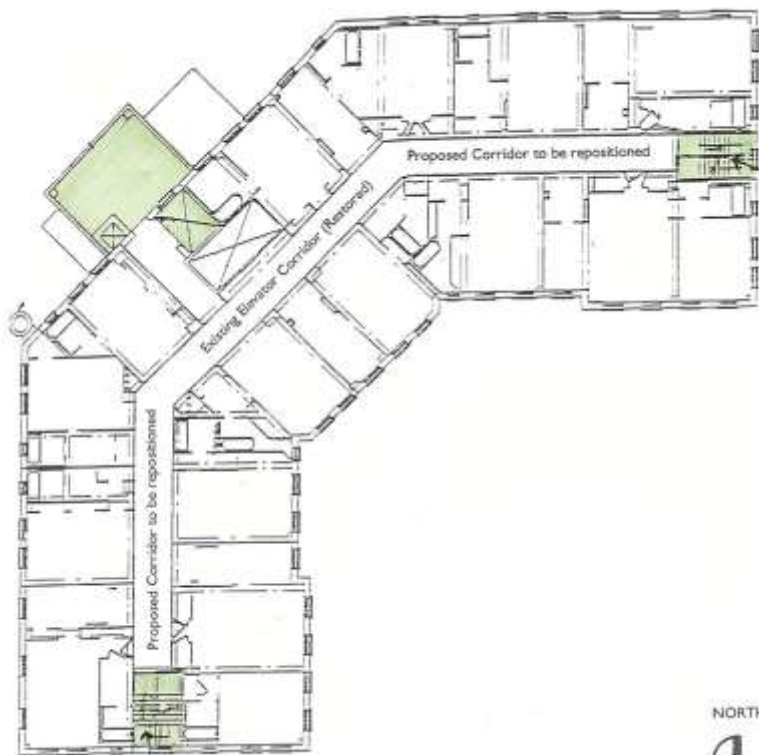




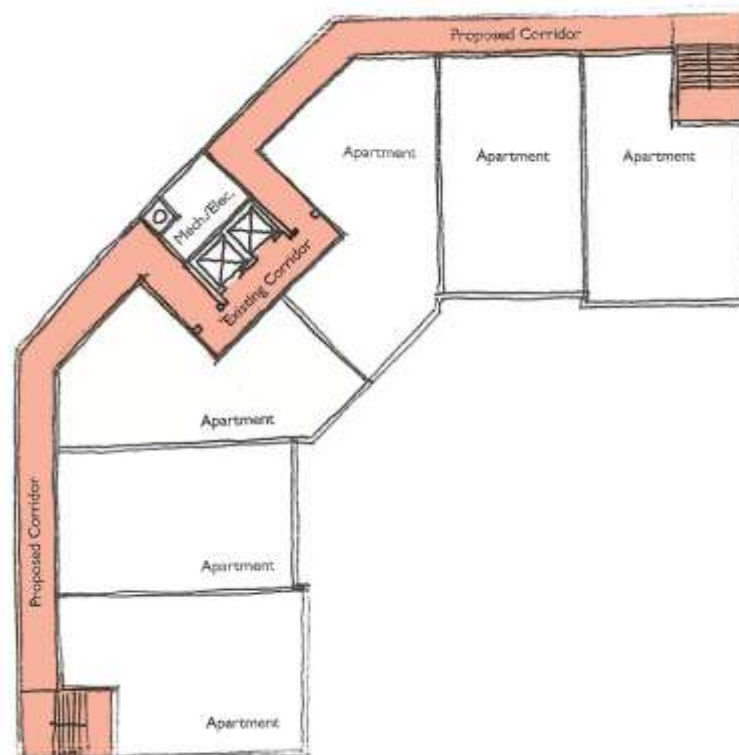




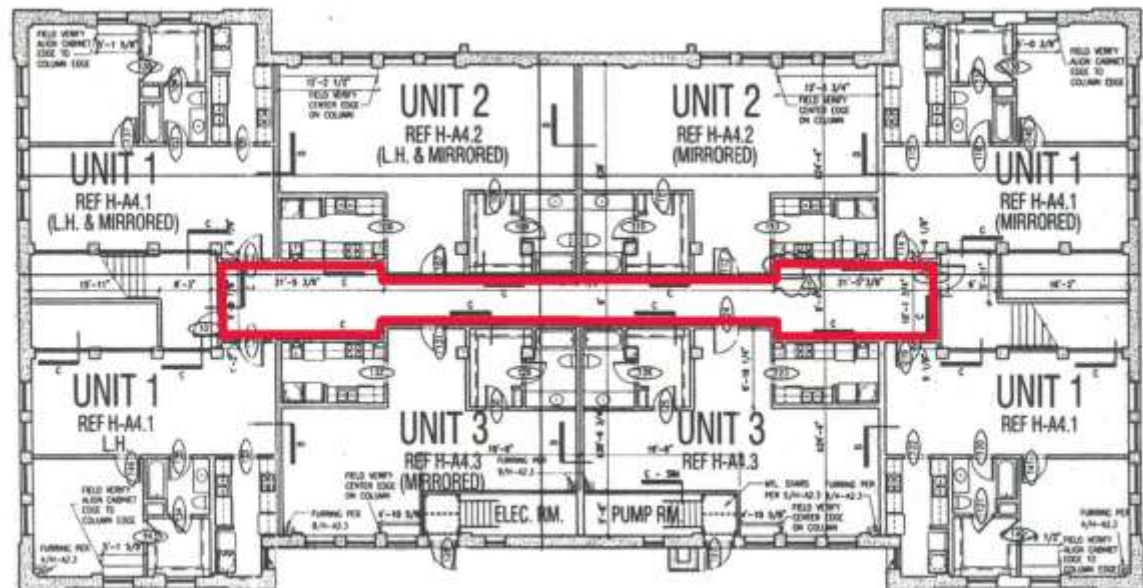
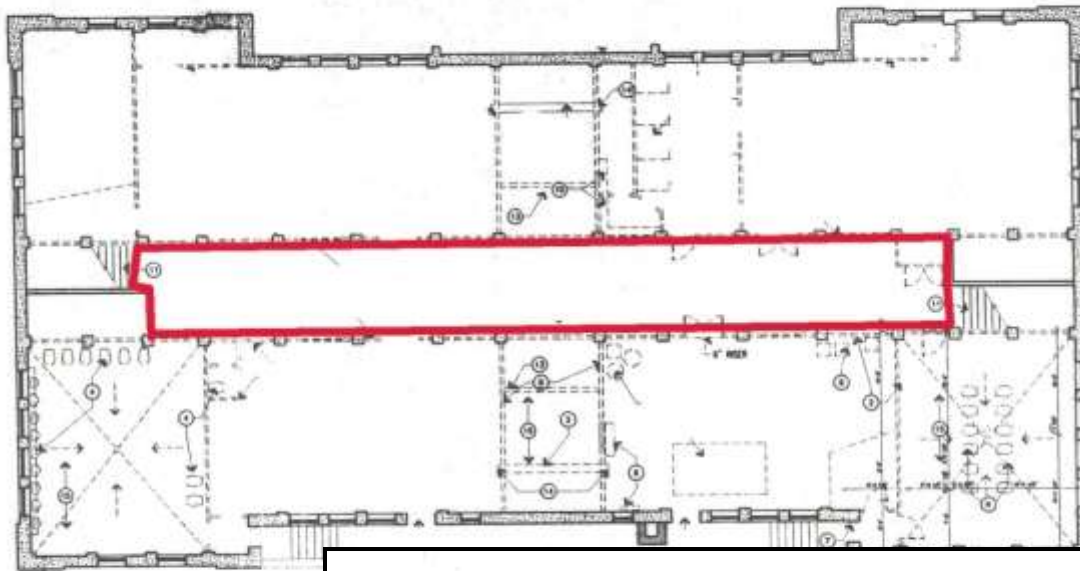


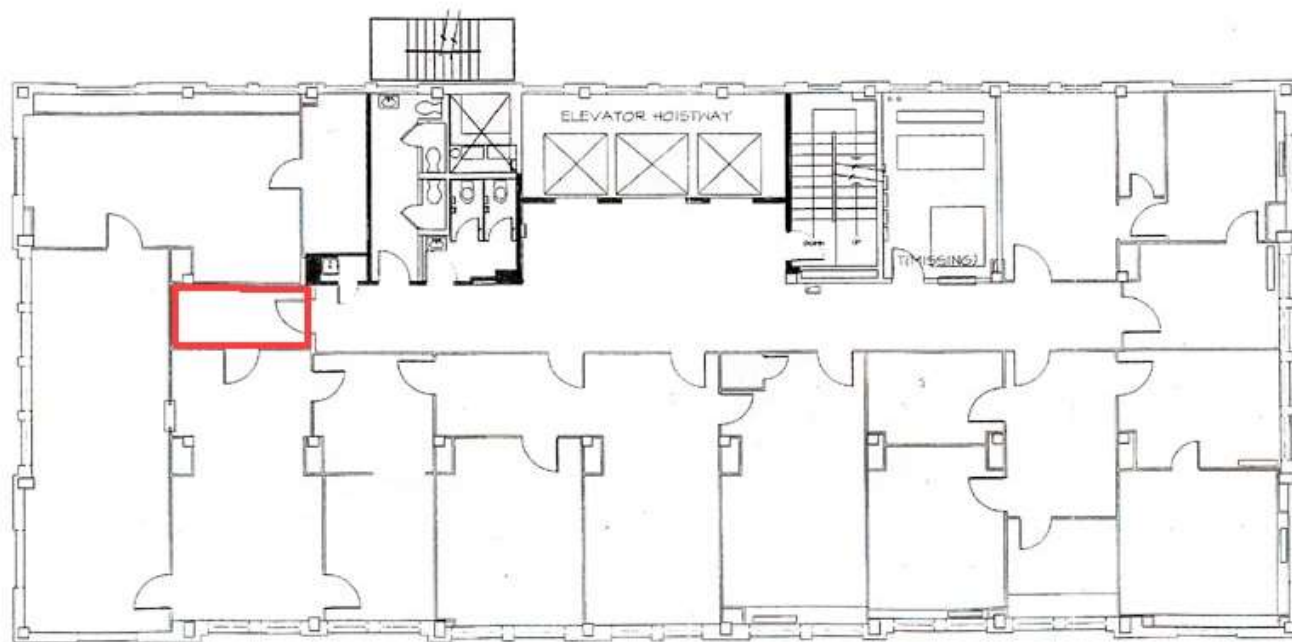
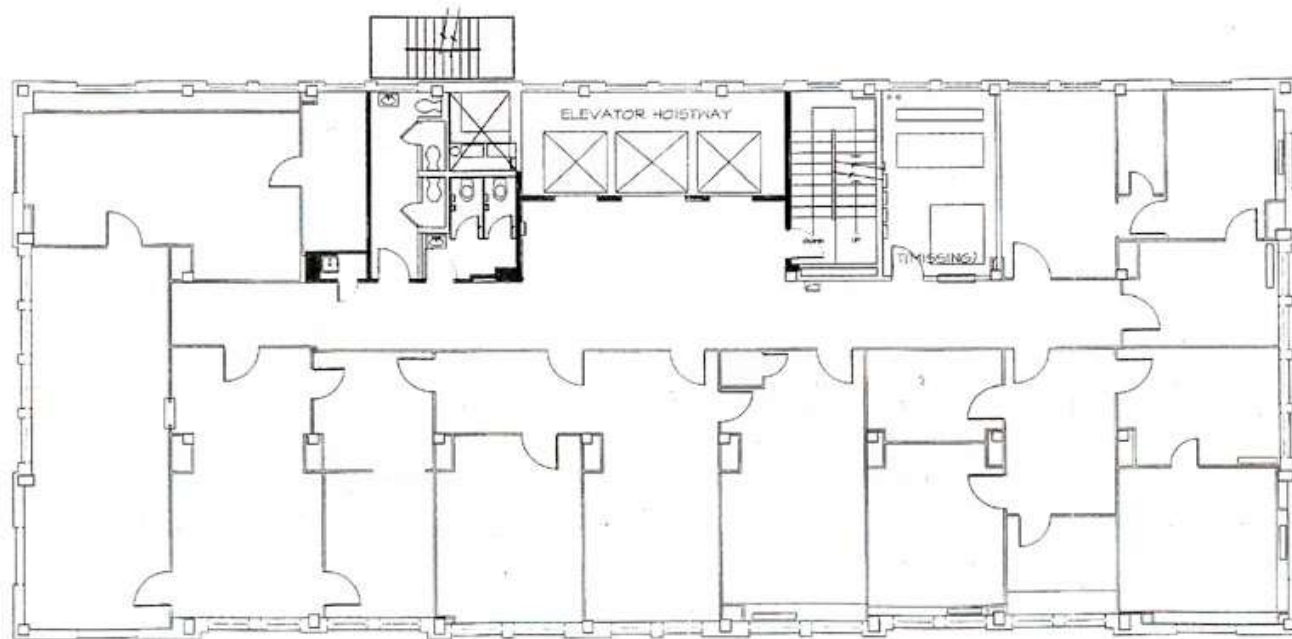


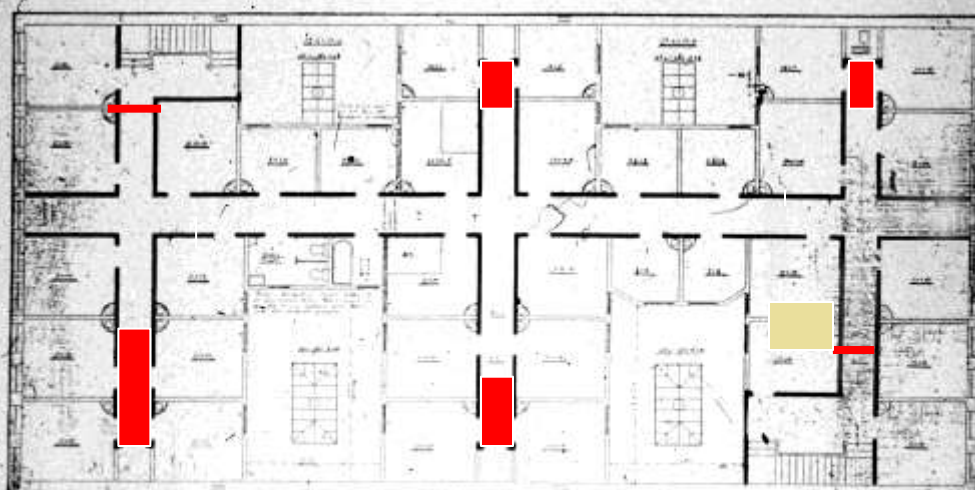
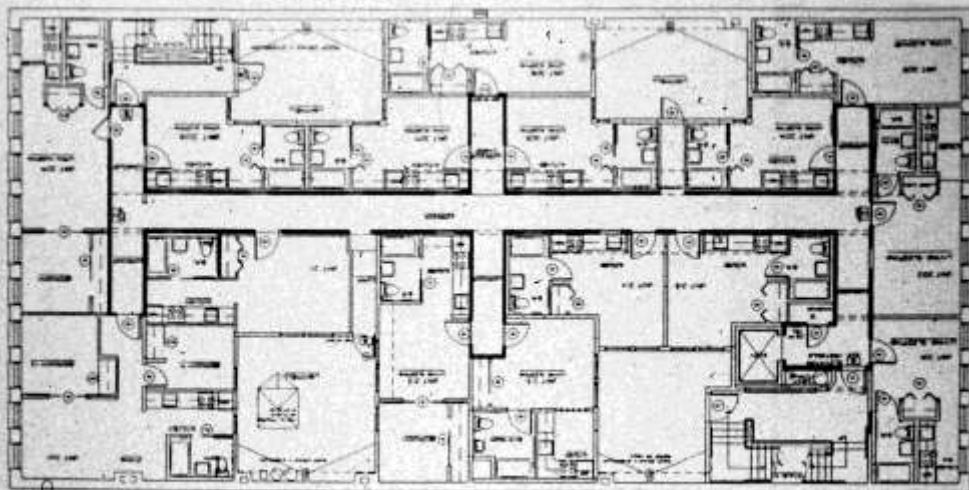
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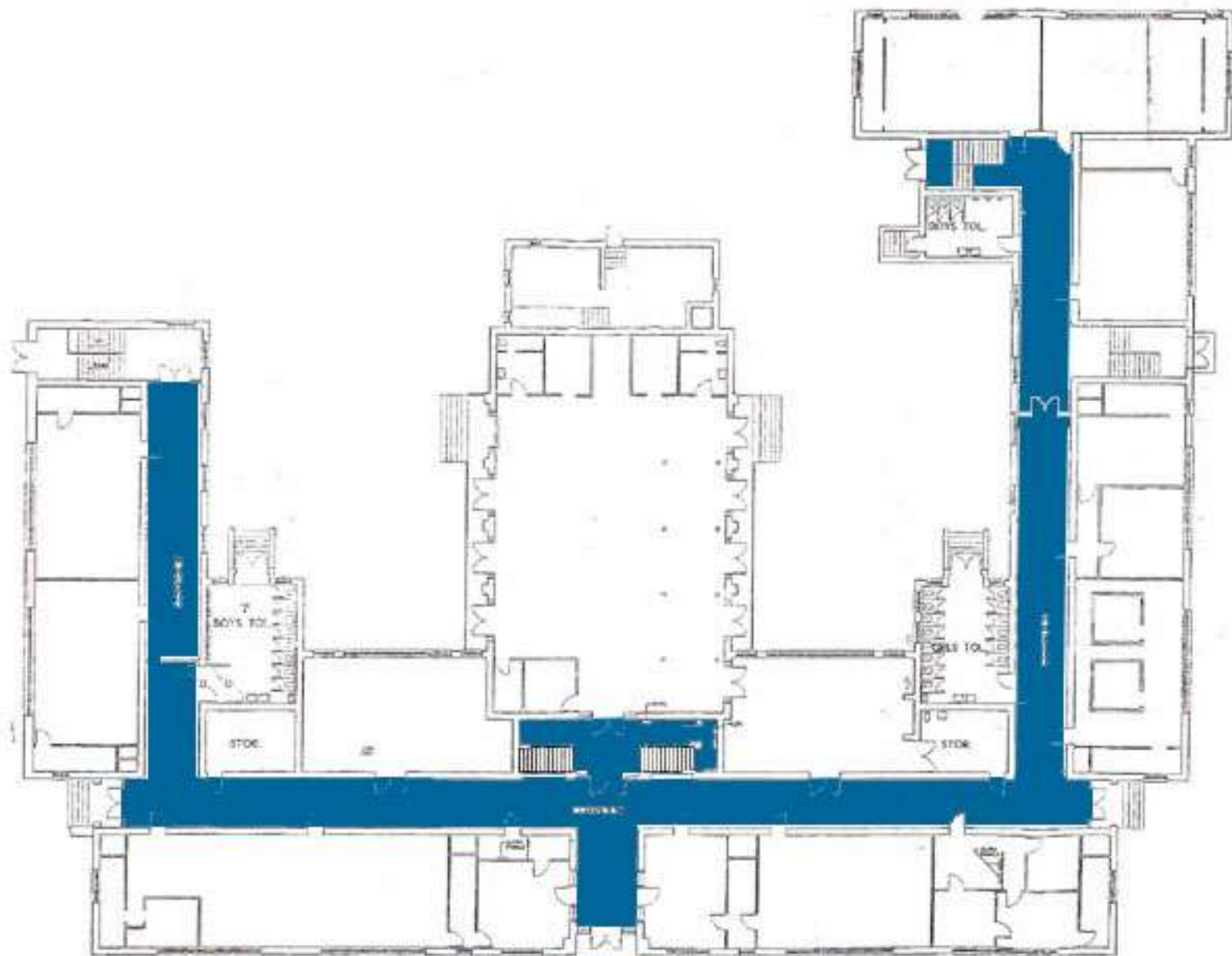




KOVALENKO HALL ARCHITECTS SEATTLE

TYPICAL FLOOR PLAN

1981 AS BUILT



EXISTING 1ST FLOOR PLAN

