

Building Analysis Component	Issue
1. Seismic resistance capacity	Determine what measures are likely to be required to meet current codes.
2. Structural load capacity	Evaluate if the floor loading capacity is adequate for shelving throughout the existing structure to provide maximum flexibility.
3. Energy efficiency	Determine what features are particularly inefficient and need to be corrected. Retrofit features should be considered as well.
4. HVAC systems	Study the heating/cooling systems and determine if they have reached the end of their useful lives.
5. Electrical systems	Determine how extensive an upgrade will be required.
6. Lighting	Evaluate what needs to be done to provide energy-efficiency and improved quality of light. Determine if this entails replacement of entire light fixtures and their control systems. Evaluate how daylighting can be introduced in an existing structure.
7. Telecommunications and information systems	Determine how easy it is to install new cabling in the existing building and how many new data closets must be added.
8. Fire alarm	Determine if this system needs to be upgraded to meet current standards.
9. Security systems	Evaluate security needs and if security cameras or other new systems will be required.
10. Plumbing systems	Determine requirements for additional toilet facilities required under current code, including the extent of the accessibility (ADA) code upgrade work.
11. Fire protection	Determine if a sprinkler system will be required if not already installed.
12. Acoustics	Determine the extent of existing noise problems that need to be addressed.
13. Accessibility	Determine what ADA upgrades will be required to meet current codes.

14. Shelving systems	Determine if the existing shelving system meets current seismic standards and other code requirements and evaluate the feasibility of keeping the existing shelving in place.
15. Architectural systems	Conduct an overall review of the general condition of the existing building, including features such as roofing, windows, exterior sheathing, and ceilings.
16. Architectural design features	Evaluate changes that will be required to improve wayfinding, overall space organization and code exiting.
17. Miscellaneous	Determine if there are any special aspects of the existing building that may have cost implications in a renovation option, such as its qualification as a registered historic structure.