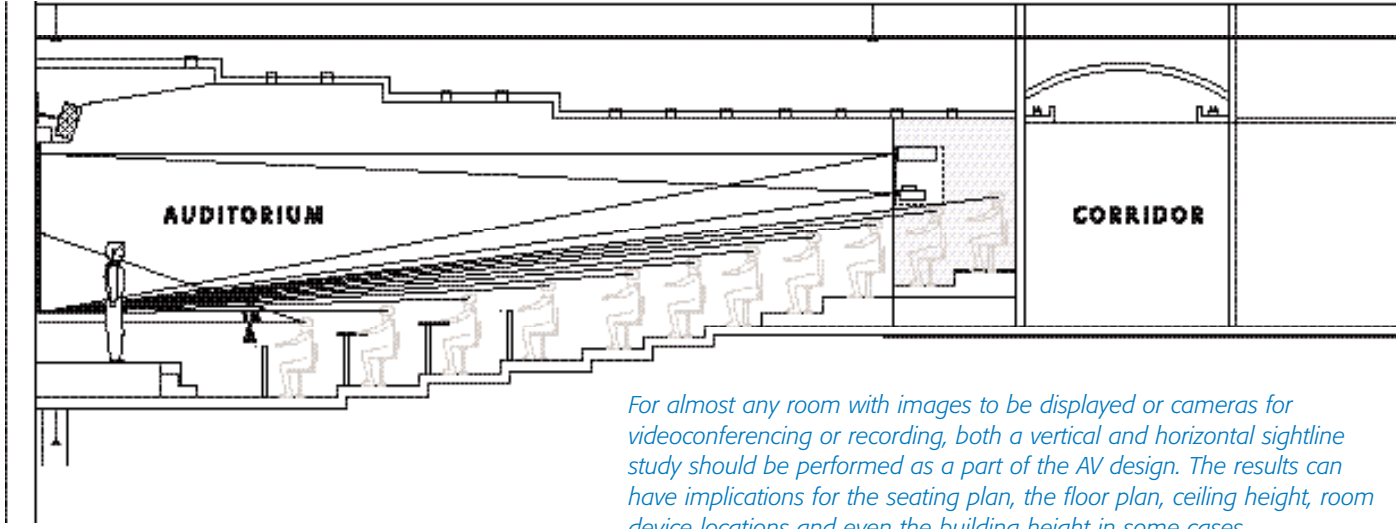


**Figure 19: The Sightline Study**



- Detailed sightline studies conducted to verify room designs
- Lighting designs initiated
- Develop acoustical architectural designs
- HVAC and electrical system noise control issues reviewed as HVAC and electrical systems are developed
- Examination of surrounding environment to check airborne and structure-borne noise and vibration from people and equipment in adjacent spaces
- Detailed room finish requirements where needed (particularly for rooms in which videoconferencing will occur)
- Check wall elevations so that projection screen locations, rear screen projection screen openings and AV device locations can be established and coordinated.
- Mounting requirements and room layouts prepared. Coordinate structural loading information and mounting details.

### **Construction Documents**

This is the phase where some of the most intense design coordination occurs. AV design issues that need to be addressed during this phase include:

- Finalization of conduit, cable tray and back box sizes, pathways and locations
- Review of room lighting and lighting control designs for AV spaces
- Detailed review of acoustical design issues, including mechanical, electrical and architectural acoustical design elements
- Review and finalization of AV design details such as structural mounting, wall elevations, screen type, size and locations, AV-related room configurations and other details that are critical to owner and end-user satisfaction.

### **VALUE ENGINEERING AND COST CUTTING**

If the project cost estimate exceeds the project budget, or if the project's funds have been reduced, a process called "value engineering" is sometimes undertaken to lessen costs while maintaining the original scope and quality of the project.

