

supplemental schedules indicate the manufacturers, model numbers, colors, etc., for each product. Then, if a product changes, it is revised only in the specification or schedule, not throughout the drawing sheets.

There is rarely more than one interior designer assigned to the CD phase of any project. Collaboration among the architects and designer is necessary to determine the information required on each drawing, the details to be drawn, and the project schedule. Our designers typically coordinate drawings with the project electrical engineer and lighting designer as the location of furniture and the reflectance value of finishes greatly impact their work.

Over the past decade, the computer has had great impact on our methods of producing CDs. To start a drawing we use reference drawings as base plans with a structured layering system; specific layers are designated for interiors. When producing a furniture layout or a finish plan, we can insert coded furniture symbols or finish keys accessed from an electronic symbols library. These codes and keys are standard elements used repeatedly on each project. In one aspect, we violate our own rule by placing finish schedules, indicating manufacturers and model numbers, on the plan. There is a definite reason for this: Who has ever seen a painter on site with a specification manual? They refer only to the plan for paint or finishes locations.

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## CODE RESEARCH AND APPLICATION

HHPA keeps on hand the major codebooks such as the New York City Unified Building Code and Southern Standard Building Code, as well as the Americans with Disabilities Act handbook and many of the standards for the ASTM test procedures.

Before we start design or documentation, we research which codes apply to our project and who are the reviewing authorities. (They may have a particular vexation of which to be aware.) Because we work in many jurisdictions, many different codes have applied. For major projects we are fortunate to employ code experts who interpret local codes.

When it comes to applying codes to interior projects, two stand out in our mind, the Americans with Disabilities Act (ADA) and the flame-spread codes (mostly Cal. Bulletin 113 and 133). The ADA has made it easier to standardize layouts for toilets, elevator cabs, and door swings all throughout the United States. Once you have drawn a compliant toilet in your computer system, it is not too hard to apply it to the next project. However, these codes have an unfavorable effect on your net-to-gross building requirements. They are larger.

Our public projects require that we are familiar with the flame-spread codes as they apply to furniture. Furniture manufacturers are very helpful in determining which codes need to be met in which jurisdictions and in providing burn tests to demonstrate that the furniture and upholstery assembly meet code.

Another code constraint that we encounter is replacement cost. (This rule varies from state to state.) HHPA's work includes many renovation and restoration projects. When the cost of the renovation or restoration equals a certain percentage of the replacement cost (typically 50 percent) of an existing building, you are required to upgrade the entire building to meet all the codes (travel distance, fire alarm systems, emergency lighting, etc.) including ADA codes. This was the case with the restoration of Radio City Music Hall. HHPA's scope of work included the rectifying of a number of ADA code violations.

Our best advice regarding code application is to employ an expert to review your drawings and specifications. It can save you and your client from numerous problems and costly changes.

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## MATERIAL RESEARCH

A signature of HHPA designs is the innovative use of inexpensive materials. For us to preserve our signature, we are always searching for new materials or inventive ways of applying standard materials. On a weekly basis, HHPA's Interiors staff meets with numerous vendors to view and collect material samples which will be applicable to upcoming or specific projects. We look for