3. GUIDELINES FOR ADDITIONS TO HISTORIC BUILDINGS

Additions to Landmark Structures and Contributing Structures in Historic Districts

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The design guidelines include many photographs and diagrams to illustrate acceptable or unacceptable approaches. The illustrations are provided as examples and are not intended to indicate the only options.

If there appears to be a conflict between the text of the design guidelines and a related illustration, the text shall prevail.

**KEY TO ILLUSTRATION SYMBOLS**

- **A checkmark** on an illustration indicates an approach that is generally appropriate.
- **An asterisk** on an illustration indicates an approach that may be acceptable in some contexts or situations.
- **An X mark** on an illustration indicates an approach that is generally inappropriate.
INTRODUCTION

An addition may be an appropriate improvement to a historic structure. It can enhance the continued use of a property, and express its changing functions.

This chapter provides guidelines for additions to historic structures, including individually-designated Denver landmarks and contributing structures in historic districts.

The guidelines seek to minimize the visual and physical impacts of an addition on the historic structure and its surrounding context. However, an addition does not have to be completely hidden from view.

OTHER GUIDELINES FOR ADDITIONS

Chapter 4 “Guidelines for New Buildings & Non-Contributing Buildings” on page 77 provides new construction guidelines that also apply to an addition within a historic district. These include guidelines for overall massing, roof decks and patios, and other features of new construction.
Approaches for an Addition

For many properties, an addition to the rear of the historic structure is the best approach. This is particularly the case for single-family residences. In other situations, a rooftop addition may be an approach, more often in commercial structures. When considering the appropriateness of a proposed addition, the impacts of the work on the property and a number of specific design variables will be evaluated as described below.

**IMPACT CONSIDERATIONS FOR AN ADDITION**

Impact considerations address the visual and physical impacts of the addition on the integrity of the property, and one’s ability to perceive its historic character, as well as that of its context.

Some impact-related factors to consider include:

- **The impact on the historic structure**
  - Is the addition visible?
  - Does the addition remain visually subordinate to the historic structure?
  - Is one’s ability to interpret the historic character retained? (Especially in terms of perceiving the original mass, scale and prominence of the property)
  - Are alterations to key character-defining features avoided or at least minimized?
  - Is the structural integrity of the property retained, or even improved?

- **The impact on the abutting contributing properties**
  - Is one’s ability to interpret the historic character of the abutting properties retained? (Especially in terms of perceiving their original mass, scale and relative prominence on the street or from other public vantage points?)

- **The impact on the block as a whole**
  - Are the rhythm and alignment of structures and their key features typical of the block retained?
  - Is the perception of the scale of structures along the block retained, as experienced at the street level?
  - If the character of an alley wall is also a key feature, is its scale also retained?

**DESIGN VARIABLES FOR AN ADDITION**

Design variables include basic scale and proportion considerations that relate to the compatibility of the addition with the primary structure and surrounding historic context.

Design variables to consider include:

- **The height of the addition.**
  Keeping floor heights in the range of those on the historic structure, or even lower, may help keep an addition visually subordinate to the historic structure.

- **The degree of setback.**
  Does the original primary façade (front) remain visually prominent? An addition should be set back from the façade and other key walls that contribute to the character of the property. The setback should be a sufficient distance such that the historic structure remains prominent.

- **Simplicity of design.**
  Is the design of the addition subordinate in character? The design should be relatively simple in architectural character and detailing, such that it does not call undue attention to itself. The historic structure should remain the prominent feature.

See “Designing in Context” on page 79 for additional information on design variables.

**EXAMPLES OF COMPATIBLE RESIDENTIAL AND COMMERCIAL ADDITIONS**

64. Appropriate side-gabled dormer addition that has minimal impact on adjacent contributing properties.

65. An appropriate side shed dormer addition, located behind the chimney. See “Dormer Location” on page 35 for more information.

66. An appropriate rooftop addition to a commercial storefront.

Figure 19: Approaches for an Addition
General Principles for Additions

INTENT STATEMENTS

3a To maintain the general appearance of a historic structure, especially from key public vantage points, when building an addition.

3b To minimize damage to the original structure and preserve character-defining features when building an addition.

3c To avoid adversely affecting the character-defining features of a historic district when building an addition.

3d To ensure that an addition relates to the fundamental characteristics of the block while also appearing as current construction.

GUIDELINES FOR ALL ADDITIONS TO HISTORIC STRUCTURES

3.1 Locate an addition to be subordinate to the original structure.
   a. Place an addition to the rear of the original structure whenever possible.
   b. See Guidelines 3.9-3.11 for additions to residential structures and Guidelines 3.12-3.13 for additions to commercial structures.

3.2 Locate an addition to retain open space patterns.
   a. Retain original open space at the sides and rear of the structure.
   b. Avoid removing existing open space with a large addition.

3.3 Design an addition to a historic structure to respect the character-defining features of the historic district, the surrounding historic context, and the historic primary structure.
   a. Design an addition to be compatible with the scale, massing and rhythm of the historic structure and context.
   b. Align porch eaves, roof lines and other features with adjacent structures, when possible.
   c. Retain the appearance and orientation of the historic primary entrance.

CHARACTER-DEFINING FEATURES OF A HISTORIC DISTRICT

When planning a new addition in a historic district, it is important to carefully review the district’s character-defining features. See “Appendix A: The Character-defining Features of Denver’s Historic Districts” for more information.
3. Guidelines for Additions to Historic Buildings

**GUIDELINES FOR ALL ADDITIONS TO HISTORIC STRUCTURES**

3.4 Design an addition to be recognized as current construction.
   
   a. Differentiate an addition from the original structure with an offset of at least four inches.
   
   b. Differentiate an addition from the original structure with a change in material or size. In more vernacular building styles, this may be a relatively subtle change or distinction. If distinctions from old and new are subtle, a date plaque for new construction is also recommended.
   
   c. Use simplified versions of building components and details found in the surrounding historic context. These may include:
      - A cornice or other definition of the roof line
      - A distinctive storefront or main door surround
      - Window, moldings or other features
      - Porches
   
   d. Do not design an addition to be an exact copy of the existing style or imply an earlier period or more ornate style than that of the original structure.
   
   e. Do not design an addition to contrast starkly with the original structure. At a minimum, an acceptable design should be neutral and not detract from the district’s or structure’s historic character.

3.5 Do not damage historic building fabric or obscure key character-defining features of the primary structure when building an addition.
   
   a. Minimize the removal of original building fabric when attaching an addition.
   
   b. Design an addition so it can be removed without destroying original materials or features.
   
   c. Avoid damaging historic façades, cornice lines or other details.
   
   d. Avoid adding an addition that impacts the original building’s structural system.

**ADDITIONS TO A HISTORIC FAÇADE**

In some historic contexts, precedent may exist for constructing an addition that is flush with the façade of the structure. Some of these changes may now be considered to be historically significant alterations. While such a design for a new addition is theoretically possible, the LPC discourages a flush addition today because it may negatively affect the integrity of the historic property.

**ALTERNATIVES TO A NEW ADDITION**

Owners of a historic property are encouraged to consider alternatives to making an addition to a historic property. Alternatives include finishing basement or attic spaces to add usable square footage.

A new secondary structure, or an addition to an existing secondary structure, may also be considered as an alternative. Guidelines for new secondary structures are provided on pages 90-91. Strategies for an addition to a historic secondary structure are provided on pages 49-50.
3.6 Use materials that appear similar in scale, color, texture, and finish to those seen historically on the primary structure or in the historic context.

a. Use brick that is a standard brick size and depth and does not have tumbled edges. Thin brick veneer (brick tiles attached to the building façade with mortar or grout) is not allowed. Precast panels with standard brick embedded into the panels may be appropriate in a commercial or industrial context.

b. Stone, cast stone, and other masonry materials are appropriate when matching those found in the historic context.

c. Use stucco that is a cementitious stucco at least 7/8" thick. EIFS is not allowed. The use of fiber cement panels should be limited to areas that are not readily visible and small expanses of the wall surface.

d. Install architectural metals in a traditional manner, for example with vertical standing seams. Architectural metals should be limited to areas that are not readily visible when used in a residential context but more visible applications may be appropriate in commercial and industrial contexts. Architectural metals should have a matte finish. The use of weathering steel should be limited to areas where it will not damage historic building materials.

e. Install wood cladding materials in a traditional manner. Apply clapboard, shingles, and shakes horizontally, and limit exposures to 4” to 6”. If proposing larger exposures, document similar examples in the surrounding historic context. Vertical tongue-and-groove or board-and-batten siding may be used only for small expanses of walls that are not readily visible from public vantage points.

f. Fiber-cement lap siding or boards, or other durable manufactured wood siding and trim must have a smooth finish. Fiber-cement or durable manufactured wood shingles may have a simulated faux-wood grain texture.

g. New materials that convey characteristics similar to historic materials may be appropriate if they have a similar appearance, size and shape to traditional materials.

h. Avoid using a wide range of different building materials when buildings in the surrounding historic context typically use a simple combination of materials.
3.7 Design windows, doors and other features on an addition to be compatible with the historic primary structure and historic context.

a. Incorporate windows, doors and other openings at a ratio similar to those found on the historic structure and in the surrounding historic context.

b. When using contemporary window patterns and designs, ensure they are compatible with the character and proportions of windows on the historic structure and in the surrounding historic context.

c. Maintain the typical historic placement of window headers and sills relative to cornices, string courses and belt courses.

d. Use window and door widths and heights that are similar to windows and doors on the historic building and in the surrounding historic context.

e. Additional flexibility may be granted for window and door placement on façades that are not readily visible from public vantage points.

f. Inset a window into the wall at least 2-inches from the wall plane. For a double- or single-hung window, the inset may be measured from the lower sash.

g. Use window materials that are similar to windows on the historic building and in the surrounding historic context. For example, wood, aluminum-clad wood, fiberglass composite, and Fibrex are appropriate window materials for use on most residential additions.

h. When using divided-light windows on an addition, use a design based on windows found on the historic building and in the surrounding historic context and ensure that some other design element differentiates the addition as new. Use true divided lights or simulated divided lights with a spacer bar (interstitial spacer between the double-glazed panes of glass). Windows with only muntins between the panes of glass are not allowed.

i. Use a simplified design of an historic door rather than replicating exactly an historic door found on the primary structure.

j. Use clear or near clear low-e glass in glazing. Windows at bathrooms and doors on secondary elevations may have frosted glazing.
General Principles for Additions

GUIDELINES FOR ALL ADDITIONS TO HISTORIC STRUCTURES

3.8 Design the roof of a new addition to be compatible with the original structure and surrounding historic context.

a. Use a roof form that is consistent with the original structure’s roof form and those of structures in the surrounding historic context in terms of pitch, orientation, and complexity. An addition with a pitched roof is usually inappropriate for a structure with a flat roof.

b. If using contemporary materials, they should be compatible with historic roof materials in visual impact, texture, and relationship to architectural style.

78. Use a roof form that is consistent with the original structure’s roof form and those of structures in the surrounding historic context. Gable roof additions are added to gable roof structures.
New Residential Additions

INTENT STATEMENT

3e To preserve the appearance and integrity of a historic residential structure and district by ensuring that an addition does not damage historic materials

3f To ensure that an addition is subordinate to the main structure, has minimal visibility from public vantage points, and is compatible with the surrounding historic context

DENVER ZONING CODE RESIDENTIAL BULK PLANE STANDARD

The Denver Zoning Code includes a “bulk plane” standard for most older residential districts that is intended to prevent new construction and additions that could loom over adjacent properties. The standard limits building height near the sides of a property and reduces height on the rear 35% of the lot to preserve back yard privacy.

Because the most compatible location for an addition to a historic structure is generally to the rear, it may sometimes be a challenge to fit within the bulk plane standard. A qualified architect who has worked in Denver’s historic districts can help design a compatible addition that meets zoning standards.

GUIDELINES FOR NEW RESIDENTIAL ADDITIONS

3.9 Locate an addition to a residential structure to be subordinate to the existing structure.
   a. Design an addition to have minimal visual impact to the existing structure.
   b. Place a one-story addition to the rear of the existing structure, if possible.
   c. Consider a compatible side addition if a one-story rear addition is not possible.
   d. Consider a compatible rooftop addition for a one-story house if there are no other alternatives. A limited program rooftop addition on a one-story house may be appropriate when the house is located on a small lot and there are no opportunities for expansion elsewhere on the property.
   e. Avoid locating a rooftop addition on an individually-designated Denver landmark structure. Such additions are generally not allowed because of the existing structure’s elevated level of significance.

3.10 Design an addition to a historic residential structure to be compatible with, but differentiated from, the existing structure.
   a. Use subtle changes in material, color, and/or wall plane, to differentiate an addition.
   b. Design an addition as a simplified version of the architectural style of the original structure, or in a compatible, contemporary style.
   c. Consider using a lower-scale connecting element to join an addition to a historic structure, particularly for large or two-story additions.

3.11 Design a rooftop addition to minimize impacts on the residential structure and context of the historic district (when warranted based on Guideline 3.9).
   a. Set back a rooftop addition a minimum of 15 feet from the highest point of the primary façade to reduce its visual impact, help preserve the historic roof form, differentiate it from the original façade, and remain subordinate to the existing structure.
   b. Set back a rooftop addition at least two feet from the side façades of the existing structure to reduce potential visual impacts and help preserve the existing roof form and historic building materials.
   c. Minimize the height of a rooftop addition to ensure the historic structure remains visually prominent. Utilize dormers and knee walls to keep heights low.
   d. Do not obscure, cover or remove historic features when adding a rooftop addition.
Location & Design of a Residential Addition

A number of scenarios for rear and rooftop additions to a historic structure are illustrated below and on the following page. The illustrations demonstrate one condition on an interior (non-corner) lot. The location and design of the additions illustrated on this page are compatible with the historic structure and surrounding context.

1. **SUBORDINATE REAR ADDITION**
   
   This modestly-scaled rear addition is minimally visible from the public right-of-way to achieve a high level of compatibility with the historic structure and context.

2. **SUBORDINATE REAR ADDITION WITH CONNECTING ELEMENT**
   
   This rear-addition is clearly differentiated from the original structure with a connecting element that also breaks the wall plane between the original structure and the addition to achieve a high level of compatibility with the historic structure and context.

3. **REAR DORMER ADDITION**
   
   This new shed dormer provides a compatible small-scale addition because it is located on the rear slope of the existing roof line and is minimally visible from the public right-of-way. See “Dormer Location” on page 35 for more information.

4. **SIDE DORMER ADDITION**
   
   This new shed dormer provides a compatible small-scale addition because it is subordinate to the roof form and is located substantially to the rear of the front façade.

   Note that dormer shapes on street visible sides should match roof forms and dormer shapes seen historically whenever possible, but shed dormers can be appropriate if unobtrusive as illustrated.

*Figure 20: Location & Design of a Residential Addition*
Location & Design of a Residential Addition

The location and design of the first two additions illustrated on this page (scenarios 5 & 6) may be acceptable in some contexts or situations, while the remaining additions (scenarios 7-9) illustrate incompatible approaches.

5. TWO-STORY REAR ADDITION WITH CONNECTING ELEMENT

This rear-addition is taller than the original structure but is still clearly differentiated with a connecting element to achieve an acceptable level of compatibility with the historic structure and context in most cases.

6. GABLE-FRONT ROOFTOP ADDITION WITH SETBACKS

This rooftop addition is set back from the front and side façades. The illustrated design may not be appropriate in all cases and would require sensitivity to ensure that the integrity of the historic house is retained.

7. INCOMPATIBLE TWO-STORY REAR ADDITION

This two-story rear addition is not compatible with the historic structure and context because it overpowers the original structure. It is also wider than the original structure, which makes it more visible from the public right-of-way.

8. INCOMPATIBLE ROOFTOP ADDITION WITH SETBACKS

This rooftop addition is set back from the front and side. However, it is not compatible with the historic context because it overpowers the original structure, extends onto the front-facing roof plane, and destroys a significant proportion of the historic roof.

9. INCOMPATIBLE ROOFTOP ADDITION

This rooftop addition is not compatible with the historic structure and context because it overpowers the original structure’s mass and scale and adversely affects its integrity. The minimal setback from the front façade makes it highly visible from the public right-of-way.
New Commercial Additions

INTENT STATEMENTS

3g To preserve the historic streetscape and the appearance of a historic commercial structure by minimizing the visibility of a new addition from the street, sidewalk and surrounding properties

3h To maintain patterns found in the surrounding historic context when designing and locating a commercial addition

GUIDELINES FOR NEW COMMERCIAL ADDITIONS

3.12 Locate an addition to a historic commercial structure to be subordinate to the primary structure.
   a. Set an upper-floor addition back, typically at least 15 feet, from the primary façades, to preserve the perception of the historic scale of the structure. Small exceptions to a side street setback may be appropriate for buildings less than 75 feet wide as long as the addition is not readily visible from public vantage points.
   b. Minimize the height of a rooftop addition to ensure the historic structure remains visually prominent.
   c. Do not locate an addition in front of, or flush with the primary façade.

3.13 Design an addition to a historic commercial structure to be clearly differentiated from the original structure.
   a. Design the addition to be modest in character, and in either a simplified version of the original structure's style or a compatible, contemporary style, so it will not detract from the historic structure.
   b. Differentiate an addition from the original structure with a change in material, color and/or wall plane.

81. Minimize the visibility of a rooftop addition from the street. The building illustrated above has a rooftop addition (right) that is set back and not visible when the building is viewed from the front (left).

82. Set an upper-floor addition back from the primary, character-defining façade, to preserve the perception of the historic scale and character of the structure.