



Historic Preservation Tax Incentives Program

Technical Preservation Services
National Park Service

Documentation Requirements for Proposed Window Replacement

Property owners are encouraged to repair and retain existing historic windows. Yet, there are projects where replacement of the existing windows is an appropriate treatment. In order to review proposed replacement windows for conformance with the Secretary of the Interior's Standards for Rehabilitation, the State Historic Preservation Office and the National Park need the following minimum documentation:

- Clear photographs of existing windows. When windows are boarded over, remove boards from typical windows in order to take photographs.
- Drawings showing the elevation and horizontal and vertical sections of existing historic windows. Include muntins, mullions, transoms, and other window components. For historic steel industrial windows that contain operable units, drawings must include this feature.
- Drawings showing the elevation and horizontal and vertical sections of proposed replacement windows. In the case of a hung window, provide section drawings of both the upper and lower sash, including meeting rail. For replacement steel windows, include sections of both operable and fixed units. See note below regarding manufacturers' standard cut sheets.

Drawings should be at the same scale and large enough to clearly show construction details. Scale should be provided, measurements noted, and materials indicated for the main components of the window. Drawings of the existing historic window should be accurate, based on field measurements. Examples of window drawings are provided on pages 2 and 3.

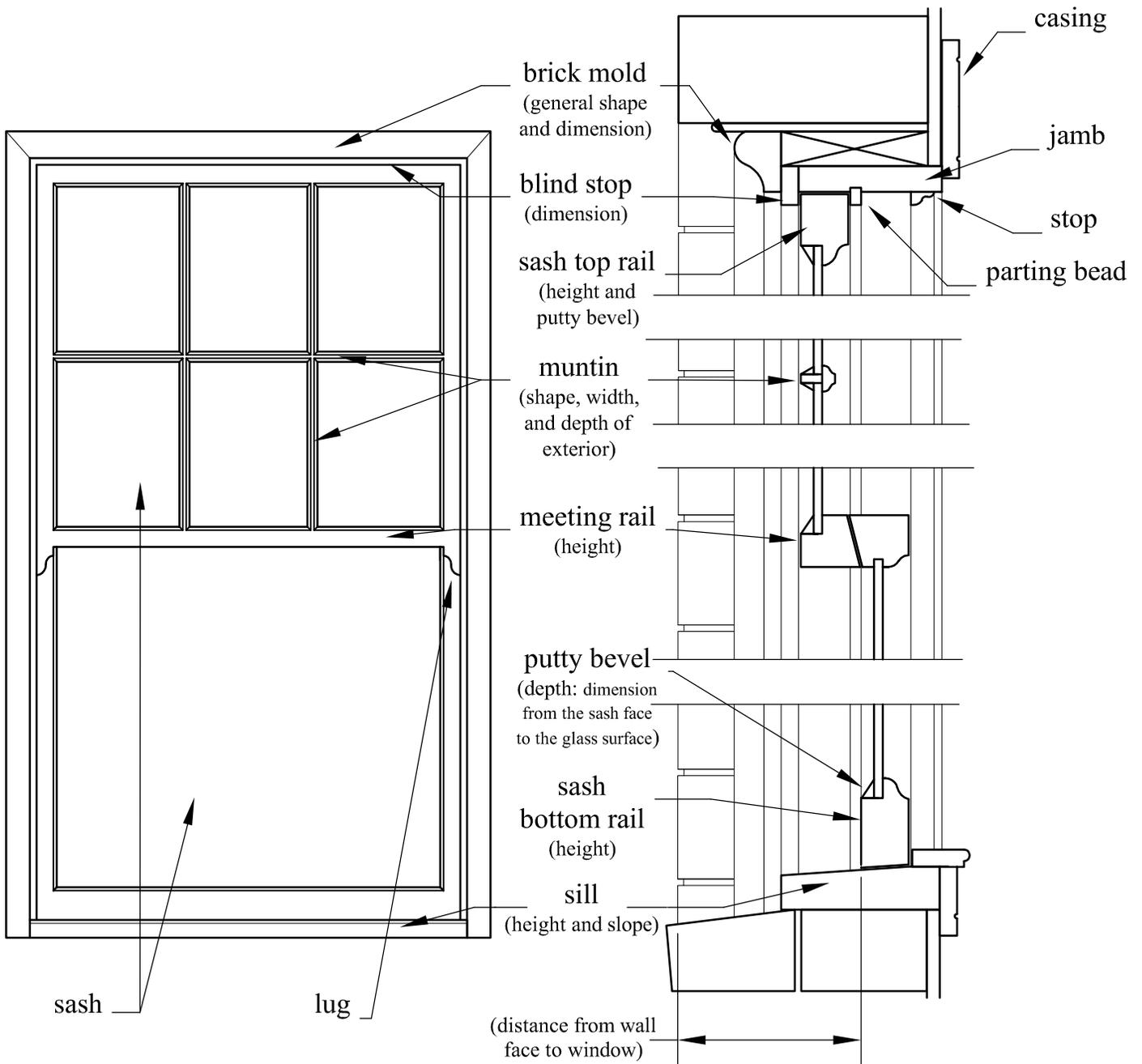
Replacement windows must accurately replicate the appearance of existing historic windows. Manufacturers' standard cut sheets usually are not an adequate substitute for detailed drawings since they are not drawn specifically for the proposed window replacement and do not show custom applications or installation details required for the project. In small projects where windows are being replaced and the historic or existing window is simple in design, manufacturers' standard cut sheets may be substituted for actual section drawings of the proposed window provided there is sufficient detail for review.

Window sections must show the profiles of muntins, meeting rails, sash, frames, moldings, and other features. Construction details must be apparent, including joinery. For all projects, the window's relationship to the existing wall plane must also be provided for both the existing historic windows, when present, and the proposed replacement window.

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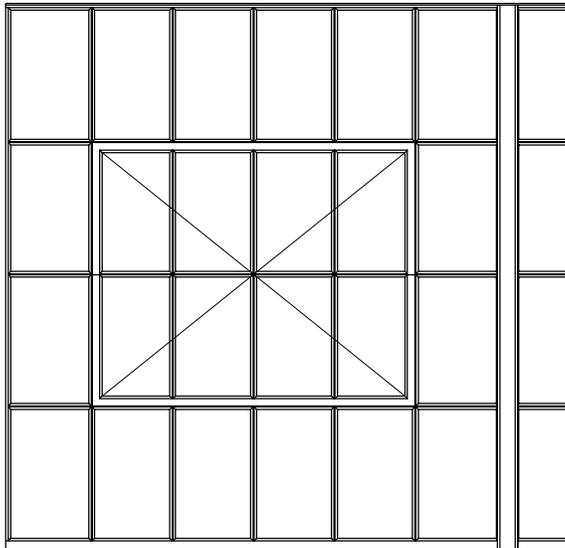
Wood Windows

The drawings below show the details required to document existing historic windows and any replacement windows. The specific information needed about each element is noted in parentheses. Note that the section drawing on the right shows the relationship of the window sash to the exterior wall plane.



Industrial Steel Windows

These drawings show the details required to document existing historic windows and any replacement windows. The specific information needed about each element is noted in parentheses. For replacement windows, be sure to show not only the typical muntin dimensions, but also any variations within the unit, such as wider pieces that support the operable sash.



Elevation

perimeter frame
(width)

top frame of
operating sash
(profile and width)

muntin
(shape, width, and
depth of exterior)

bottom frame of
operating sash
(profile and width)

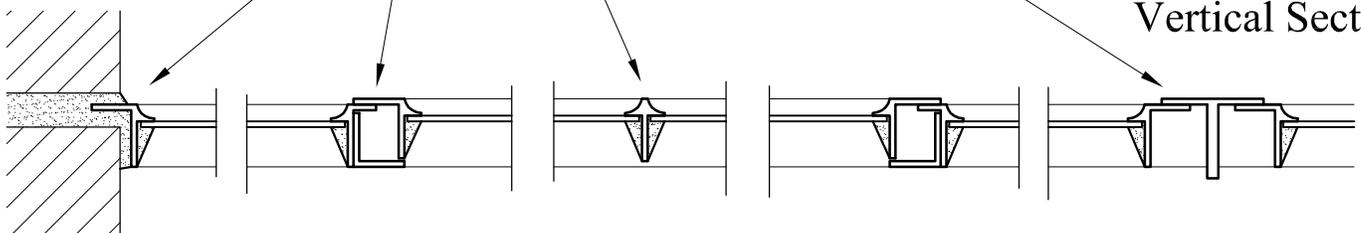
(distance from wall
face to window)

mullion
(profile & width)

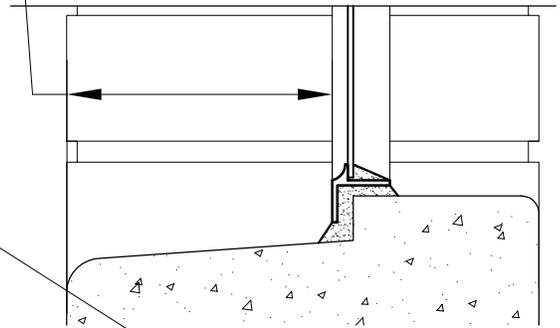
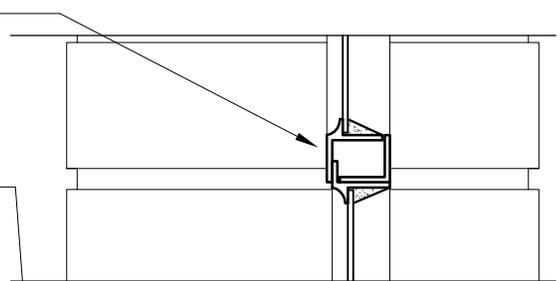
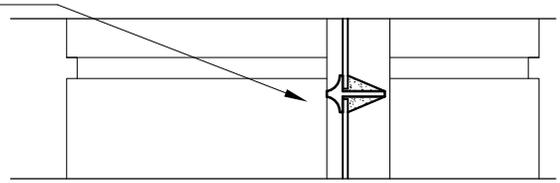
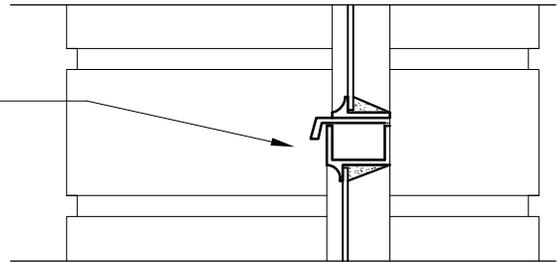
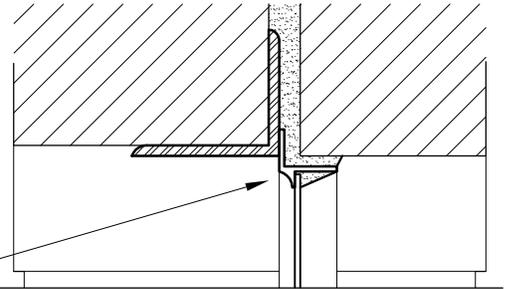
muntin
(shape, width, and depth of exterior)

operating sash & frame
(profile and width)

perimeter frame
(width)



Horizontal Section



Vertical Section