



Style M452
with custom
perforated
visor
uplighting
canopy

Architect: Waterleaf Architecture,
Interiors & Planning
Lighting Design: Luma Lighting Design
Engineer: PAE Consulting Engineers
Photography: Loren Nelson

Covered Bus Shelter

Columns: 9' tall, spaced 10' o.c. (along) x 12' o.c. (across)
Canopy: 32' wide, rising from 11'-6" to 14'-6" at edges and center ridge line
Lighting: (2) M452-150G-W-P6-1-VX-0 uplights per typical column
(3 per column at wraparound end bays); visors modified
with perforated aluminum windows and backing diffusers
Estimated illuminance on wood canopy: 64 fc avg. initial
Estimated contribution to waiting platform: 9 fc avg. initial
Estimated power density: 2.1 W/sf of canopied area; 1.3 W/sf of platform area

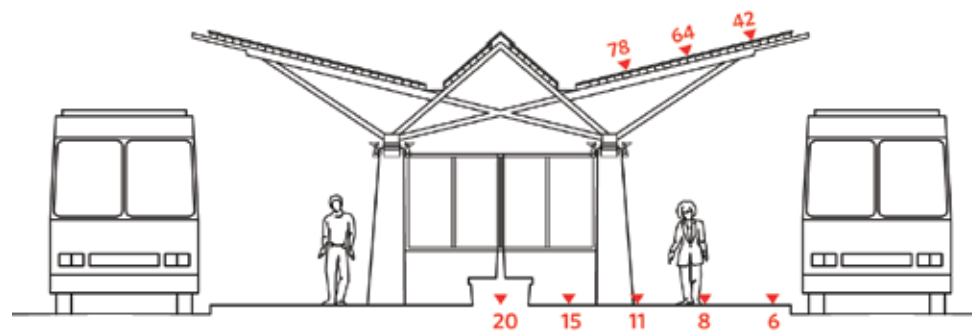
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Designed to be sensitive to the surrounding environment and with public input, the park and ride features passenger shelters on a 10-bay bus platform and parking for 600 cars. The facility is operated by C-Tran, the nationally recognized transit system serving southwest Washington and greater Portland using a combination of light rail, bus rapid transit, trolleys, streetcars, vanpools and ridesharing services.

The **Style M452s** with 150W CMH lamps used to create a dramatic wash of light on the canopy decks of the passenger shelters also indirectly light the platform below. The custom perforated visor (with diffuser), fabricated at the request of the lighting designer, provides additional contrast and texture to the application and reduces the visual mass of the **Style M452**, which has the reflector mounted directly above the ballast enclosure. The overall effect is one of lanterns atop the tapered support columns.



The **M452** can be configured in a prone position, with the reflector in front of the ballast or in an upright position with the reflector above the ballast. In this application, the upright arrangement minimizes the fixture profile and complements the vertical lines of the columns.



Estimated initial footcandles, 150W CMH uplights, 30/0/10 reflectances.



Style M452 features a durable extruded aluminum reflector and door frame coupled with die-cast end plates, sidearms and ballast enclosure.



To address the request for a perforated visor, a rectangular window was cut from the center of each. Sheets of perforated aluminum and a backing diffuser were mechanically secured to the insides to create the sought after contrast and texture.