



CI-0107

**TAB 1: GUIDING PRINCIPLES**

System Safety

**SECURITY DESIGN GUIDELINES**

Design Area	Guidelines
	<p>Glare from glass shall not obstruct service attendant/passenger vision or visibility at any time.</p>
Vertical Spaces	<ul style="list-style-type: none"> <li>&gt; <b>Stairs and elevators:</b> shall be in close proximity to each other, for acoustical and visual continuity.</li> <li>&gt; <b>Guards and balustrades:</b> shall be glazed where sight lines are required and in order to maximize illumination to lower levels, Photoluminescent strips to be installed above stair guards as required. Refer Tab 4 and Tab 7 for details</li> <li>&gt; <b>Perimeter walls:</b> of stairs and elevator vestibules shall be fully glazed where possible;</li> <li>&gt; <b>Stairwell openings:</b> shall be extended across tunnels where possible, for day-lighting, and to reduce the apparent tunnel lengths; concrete sealed walls to have a smooth architectural finish. Should graffiti appear and cannot be cleaned, finish to be re-applied to the entire area (no patchwork). Photoluminescent strips to be installed above the nosing and at top, bottom and intermediate landings for entire stair run length. Refer Tab 4 and Tab 7 for details.</li> <li>&gt; <b>Stair centre handrails:</b> shall terminate at landings to permit crossover.</li> </ul>
Tunnels and Overpasses	<ul style="list-style-type: none"> <li>&gt; <b>Open overpasses:</b> shall not have solid guards. Enclosed overpasses and stairs shall have windows/skylights, including at the ends, or shall have mesh type enclosures;</li> <li>&gt; <b>Tunnel corners:</b> shall be 45° angled and internal 90° corners shall have, at a minimum, convex mirror units and concrete walls to have a smooth architectural finish. Should graffiti appear and cannot be cleaned, finish to be re-applied to the entire area (no patchwork).</li> <li>&gt; <b>Heights of tunnels and overpasses:</b> shall be compatible with CCTV requirements.</li> <li>&gt; <b>Photoluminescent strips</b> to be installed along the entire length of tunnels. Refer Tab 4 and Tab 7 for details</li> </ul>
Shelters	<ul style="list-style-type: none"> <li>&gt; <b>Shelters:</b> shall have clear-glazed walls;</li> <li>&gt; <b>Large shelters:</b> for large shelters, doors shall be at opposite ends (one door at each end) and swing out;</li> <li>&gt; <b>Roofs:</b> shelters shall have translucent roofs and internal and external luminaires that do not reflect/glare in glazed walls. Translucent roofs also borrow illumination from platform light standards and provide sun shade; and</li> <li>&gt; <b>Platform shelters:</b> platform shelters remote from public announcement speakers shall have internal speakers.</li> </ul>