



CI-0404

TAB 4: STATION & TERMINAL BUILDING INFRASTRUCTURE
Stairs & Stair Enclosures

FEATURE	DESCRIPTION
	<ul style="list-style-type: none"> • Extend the full width of the stair; • Have a depth of 920 mm (36 in), commencing one tread depth from the edge of the stair; and • The cane-detectable warnings on this surface shall be colour and texture contrasted with the adjacent surfaces. Raised ridges shall be placed perpendicular to the direction of travel.
Edge Drain	<ul style="list-style-type: none"> > Tunnel stairs shall have concrete drainage side-gutters 40 mm deep by 80 mm wide, continuous with the tunnel floor gutters. > Gutter drains shall not be located at the bottom of tunnel stairs or in front of service doors or elevator doors.
Handrails	<ul style="list-style-type: none"> > Handrails shall be provided on both sides of all stairs. > Exterior stair and ramp handrails shall be smooth galvanized steel pipe, minimum 30 mm, and maximum 43 mm diameter, 915 mm above nosings or ramps. > All anchorage and fittings shall also be galvanized. > Tunnel stair or bridge stair handrails to be stainless steel 38 mm diameter, be mounted not less than 865 mm and not more than 965 mm high, measured vertically from a line drawn through the outside edges of the stair nosings. > All anchorage and fittings shall also be stainless steel. Handrail ends shall extend in accordance with the OBC and the OBC Illustrated Guide, also for exterior stairs. > Handrails shall be continuous around landings less than 2100 mm in length and placed on the inside edge of stairs; and <ul style="list-style-type: none"> • Have the rail extension return to the post, floor or wall; • At the top of stairs, extend at least 300 mm (12 in) parallel to the floor surface; • At the bottom of the stairs, continue to slope for a distance equal to the depth of one tread and then extend at least 300



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	<p>mm (12 in) parallel to the floor surface;</p> <ul style="list-style-type: none"> • Have a circular cross-section with an outside diameter not less than 30 mm (1.2 in) and not more than 40 mm (1.7 in), or any non-circular shape with a graspable portion that has a perimeter not less than 100 mm (4 in) and not more than 125 mm (4.9 in) and whose cross-sectional dimension is not more than 45 mm (1.8 in); • Where guards are required, handrails required on landings shall be not more than 1070 mm (42.12 in) in height. • Have a clearance of at least 50 mm (2 in) between the handrail and any wall to which it is attached or immediately adjacent to; • Be terminated in a manner that will not obstruct pedestrian travel or create a hazard; • Be designed and constructed such that handrails and their supports: • Will withstand the loading values obtained from the non-concurrent application of a concentrated load not less than 0.9 kN (202 lb.) applied at any point and in any direction; and • A uniform load not less than 0.7 kN/m (46.6 lb./ft.) applied in any direction to the handrail; • Be tonal contrasted with their surroundings and provided with a colour contrasted strip at the leading edges of the handrail at the top and bottom of the stair system; • Be installed with a photoluminescent strip installed on an extruded aluminium base along the stair rise; and • Where stairs are wider than 2400 mm, one or more intermediate continuous handrails between landings shall be provided
Photoluminescent Strips	<ul style="list-style-type: none"> > Tunnel walls (both sides) shall have surface mounted photoluminescent strips at 0.3m above finished tunnel floor. Strips to be installed continuously along entire length of tunnel transitioning in a continuous