NOTES:
A compliant kerb ramp exists where all the following are satisfied:
1. TOP OF RAMP: There shall be a minimum obstruction free wheelchair transverse distance of 1500 mm beyond the top of the ramp. The sharp transition at the top and bottom of the ramp shall be perpendicular to the direction of travel.
2. RAMP: Maximum ramp slope for wheelchair access shall be 1:16. A sharp transition (no rounding) is to be maintained at the intersection of graded plane surfaces (top and bottom of ramp and intersection of ramp and wings). The intersection of the ramp and wings shall be a straight line.
3. RAMP ALIGNMENT: Ramps shall be aligned parallel to the pedestrian direction of travel. Ramps on both sides of a carriageway shall be aligned with one another and the direction of travel.
4. KERB RAMP WING: The required wing angle is 45°. Subject to the approval of the Superintendent, wings may be angled at less than 45° if the wing is required to be clear of traffic signals, handrails, other wings or utility pole/telephone poles. Wing angle may also be reduced at obtuse angles. Wing width shall be 1500 mm. A slope no steeper than 1:4 is to be maintained on the wings. At a least 1 metre from a kerb ramp up to 2 metres along the kerb, ramps with an intersection corners.
5. SURFACE OF RAMP and skirting sides shall be slip resistant as specified in AS 1428.1 Tactile Ground Surface Indicators (TGSI):
   a. Tactile Indicators shall be installed on or adjacent to designated crossings points to warn pedestrians of a visual impairment of the impending hazard (tactile) and directional TGSI shall be installed to provide directional guidance in the absence of detectable cues. Refer Drawing KRG1 for full details of TGSI requirements.
   b. TGSI shall be provided at designated crossings points where new designs or modifications are being carried out.
   c. TGSI shall have a 3% minimum luminance contrast to the surrounding surfaces and be contrasting colours, preferably Safety Yellow (Golden Yellow Y14 or Sunflower Y15 ~ AS 2700). Refer AS/NZS 1428.4 for full details of luminance requirement.
   d. Refer AS/NZS 1428.4 for all requirements of TGSI.

GENERAL:
10. CONCRETE to be Class N3/10. All concrete to be brown finished. Ramps to be cast monolithically with the channel or tray.
11. DIMENSIONS are in millimetres unless otherwise stated.

ASSOCIATED DOCUMENTS:
Main Roads Standard Drawings Roads manual

REFERENCE DOCUMENTS:
Standard Drawings:
- 1033 Kerb and Channel - Kerbs, Channels and Ramped Vehicle Crossing
- 1447 Medium and Island Crossings - Ramped and Cut-Through Treatment for Pedestrian Facilities

Specifications:
- MRTS05 Drainage, Retaining Structures and Protective Treatments

Australian Standards:
- AS 2676 Concrete kerbs and channels (gutter) - Manually or Machine Placed
- AS 1428.1 Design for access and mobility - Part 1 General requirements for access - New building work
- AS/NZS 1428.4 Design for access and mobility - Part 4 Tactile indicators