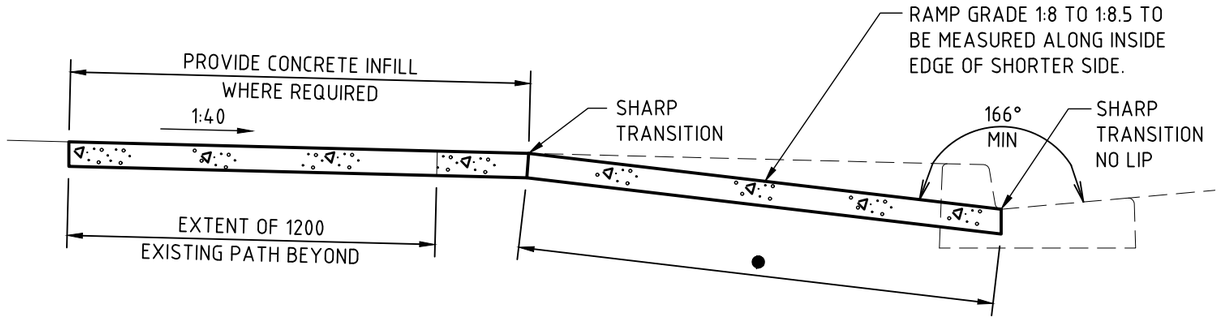
NOTES

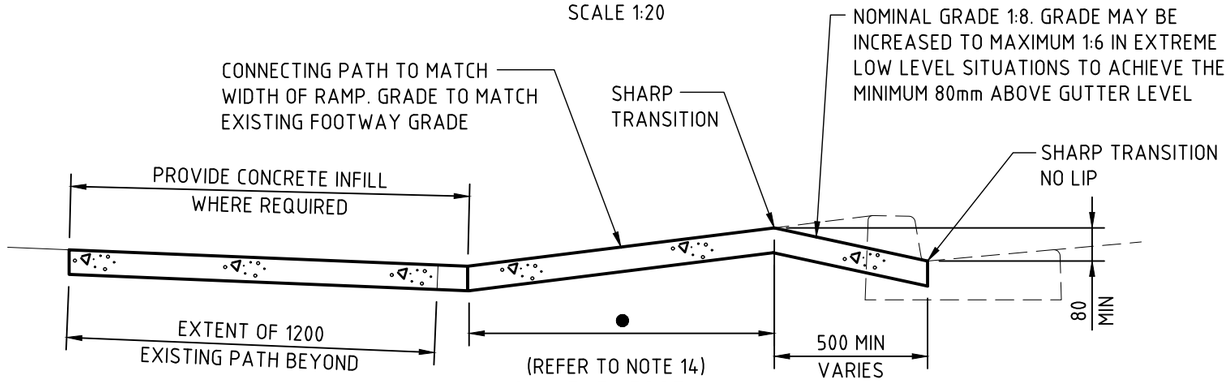
1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH COUNCIL'S INFRASTRUCTURE SPECIFICATIONS.
2.KERB RAMPS TO BE CONSTRUCTED IN ACCORDANCE WITH THIS DRAWING AND RELEVANT SECTIONS OF AS1428 - PARTS 1 & 4.1 - 2009.
3. EACH RAMP TO POINT IN THE DIRECTION OF TRAVEL AND TO ALIGN WITH RAMP ON OPPOSITE SIDE OF CARRIAGEWAY.
4. THE POSITION OF A RAMP MAY BE CHANGED FROM THE PREFERRED LOCATION WHERE THERE ARE MAJOR OBSTRUCTIONS (EG. POLES, UTILITY PITS, DRAINAGE PITS ETC) . CHANGES TO BE APPROVED BY COUNCIL'S INFRASTRUCTURE SPECIFICATIONS.
5. WIDTH OF RAMP WING MAY BE DECREASED IF NECESSARY TO CLEAR POLES, UTILITY PITS, DRAINAGE PITS ETC. MINIMUM WIDTH 600mm. FOR VERY SHORT RAMPS ADOPT A 45° WING ANGLE.
6. ALL KERB RAMPS TO BE MINIMUM 1200 WIDE. WIDER KERB RAMP MAY BE REQUIRED TO ACCOMMODATE TACTILE GROUND SURFACE INDICATORS.
7. A VERTICAL KERB AND BARRIER RAIL MAY BE USED WHERE THERE IS NO SCOPE TO INSTALL A WING DUE TO THE POSITION OF POLES, UTILITY PITS, DRAINAGE PITS ETC. BARRIER RAIL TO COMPLY WITH AUSTRALIAN STANDARD 2312 - 2002 "GUIDE TO THE PROTECTION OF STRUCTURAL STEEL AGAINST ATMOSPHERIC CORROSION BY THE USE OF PROTECTIVE COATINGS". IF REQUIRED AT A SIGNALISED INTERSECTION APPROVAL OF THE ROADS AND TRAFFIC AUTHORITY MUST BE OBTAINED - BARRIER RAIL MUST NOT OBSTRUCT THE CROSSING ACTIVATOR BUTTON.
8. LEVELS OF FIRE HYDRANTS, GAS SYPHONS ETC, THAT FALL WITHIN A RAMP OR RAMP WING, SHOULD BE ADJUSTED TO MATCH THE FINISHED LEVELS OF THE RAMP.
9. A RAMP MUST NOT BE LOCATED OUTSIDE THE LINE OF A MARKED FOOT CROSSING OR ZEBRA CROSSING (WITH THE EXCEPTION OF THE RAMP WING).
10. STREET NAME SIGNS, PARKING SIGNS ETC. TO BE RELOCATED CLEAR OF RAMP.
11. RAMPS TO BE 125mm THICK AND TO BE CONSTRUCTED USING MINIMUM 32 MPA GRADE CONCRETE. RAMPS MUST NOT BE CONSTRUCTED USING ASPHALTIC CONCRETE OR BRICK PAVERS.
12. A RAMP SHALL HAVE A BROOM FINISH CARRIED TO THE EDGE OF ALL SLOPED SURFACES PLUS A TOOLED GROOVE ALONG THE TWO INSIDE EDGES.
13. RAMP GRADE TO BE IN THE RANGE 1 IN 8 TO 1 IN 8.5 - MEASURED ALONG SHORTER INSIDE EDGE OF RAMP (GRADE ON LONGER INSIDE EDGE MAY BE FLATTER). NOMINATED GRADE RANGE IS TO ENABLE PEOPLE WITH A VISION IMPAIRMENT TO PHYSICALLY DETECT THE CHANGE IN GRADE BETWEEN FOOTWAY AND RAMP. FLATTER GRADES TO BE AVOIDED IF POSSIBLE AS THIS WOULD REQUIRE THE PLACEMENT OF TACTILE GROUND SURFACE INDICATORS (TGSI) WITHIN THE RAMP.
14. FOOTWAY LEVELS TO BE ADJUSTED WHERE FEASIBLE TO ACHIEVE A RAMP GRADE OF 1 IN 8 TO 1 IN 8.5.
15. USE OF TACTILE GROUND SURFACE INDICATORS (TGSI) IN CONJUNCTION WITH KERB RAMPS: AS1428.4.1 - 2009 SETS OUT REQUIREMENTS FOR THE INSTALLATION OF TGSI.
A) TGSI TO BE PROVIDED: i) AT MID-BLOCK PEDESTRIAN CROSSINGS, REFUGES AND MEDIAN CUT-THROUGHS ii) WHERE DISTANCE FROM PROPERTY BOUNDARY TO TOP OF RAMP EXCEEDS 3.0 METERS iii) WHERE RAMPS ARE PLACED "AROUND THE CORNER". iv) WHERE RAMP GRADE IS FLATTER THAN 1 IN 8.5. REFER TO AS1428.4.1 FOR DETAILS.
B) FLEXIBLE TGSI WHICH CAN BE GLUED DIRECTLY ONTO FOOTWAY SURFACE TO BE USED. CERAMIC TGSI WHICH NEED TO BE SET INTO THE PAVEMENT ARE NOT RECOMMENDED. TGSI TO BE INSTALLED TO THE MANUFACTURER'S SPECIFICATIONS.
C) TACTILE GROUND SURFACE INDICATOR (TGSI) COLOUR. TGSI SHALL BE YELLOW IN COLOUR UNLESS THE LUMINANCE CONTRAST DOES NOT MEET AS/NZS 1428.4.1. LIAISE WITH COUNCIL, WHERE LUMINANCE CONTRAST DOES NOT MEET AS/NZS 1428.4.1. IN REGARD TO ALTERNATE TGSI COLOUR. TGSI COLOUR MAY BE VARIED, SUBJECT TO COUNCIL APPROVAL AND COMPLIANCE WITH AS/NZS 1428.4.1, IN TOWN CENTRE PRECINCTS.
D) WHERE THE LAYOUT OF TGSI NEEDS TO BE VARIED FROM THE EXAMPLES SHOWN DUE TO SITE CONSTRAINTS VARIATIONS TO BE APPROVED BY COUNCIL.
16. LUMINANCE CONTRAST TO AID PEOPLE WITH A VISION IMPAIRMENT TO BE ACHIEVED BY:
A) RAMP AND WINGS BEING FINISHED IN PLAIN CONCRETE WHERE THE EXISTING FOOTWAY IS PAVED FULL-WIDTH IN ASPHALTIC CONCRETE OR COLORED PAVERS.
B) AT STRIP-PAVING SITES RAMP AND WINGS TO BE FINISHED IN PLAIN CONCRETE AS THERE IS LUMINANCE CONTRAST BETWEEN THE RAMP/PATH AND THE ADJACENT TURF.
17. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.



(REFER TO NOTES 13 & 14)

NORMAL LEVEL FOOTWAY

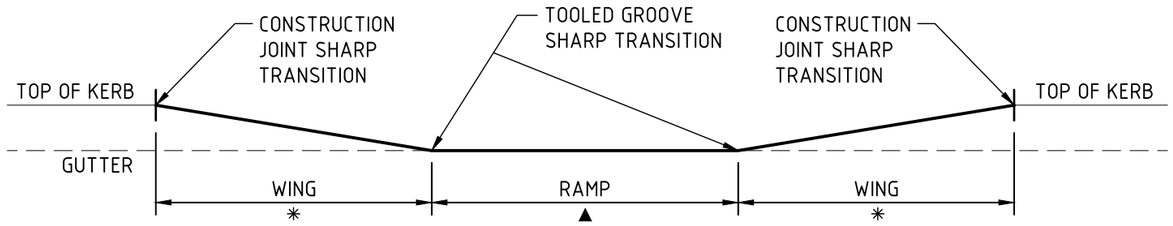
SCALE 1:20



(REFER TO NOTE 14)

LOW LEVEL FOOTWAY

SCALE 1:20



SECTION

SCALE 1:20

RAMP DIMENSIONS			
DIMENSIONS	INTEGRAL KERB & GUTTER (mm)		
	150 HIGH	190 HIGH	
▲ WIDTH	1200	1200	
● LENGTH	min. 1200	max. 1520	
* WING	45° (equal the length)	45° (equal the length)	ADJOINING PATH
	nom. 900mm	nom. 900mm	NO ADJOINING PATH

▲ DENOTES REFER TO DIAGRAMS FOR CORRECT WIDTH

● DENOTES LENGTH OF RAMP TO BE DETERMINED ON SITE. LENGTH WILL VARY DEPENDING ON KERB HEIGHT AND FOOTWAY GRADIENT. NOMINATED LENGTHS ARE FOR A FOOTWAY CROSSFALL OF 2.0%.

* DENOTES WIDTH OF WING FOR NON-STANDARD KERB HEIGHTS TO BE DETERMINED ON SITE. RATIO OF KERB WIDTH MAY BE DECREASED IF NECESSARY (TO 600mm MINIMUM) TO CLEAR PUBLIC UTILITIES, ETC.

ACKNOWLEDGEMENT:
PORT STEPHENS COUNCIL ACKNOWLEDGES THE ASSISTANCE OF THE CITY OF NEWCASTLE IN THE DEVELOPMENT OF THIS DRAWING.

SR PCG - STANDARDS REVIEW PROJECT CONTROL GROUP
ASM - ASSET SECTION MANAGER

Date	Amendment	Rev	By	Approved
10.04.26	DETAILS UPDATED	1	SR PCG	ASM
20.06.24	ISSUED FOR CONSTRUCTION	1	SR PCG	ASM

PORT STEPHENS COUNCIL

Project: STANDARD DETAILS

EDRMS No: PSC2016-01993-005

Drawing Title: FOOTWAY KERB RAMPS
SHEET 3 OF 4

APPROVED

SHEET No: PC-202

Revision: 1

Date: 10.04.26

Sheet Size: A3