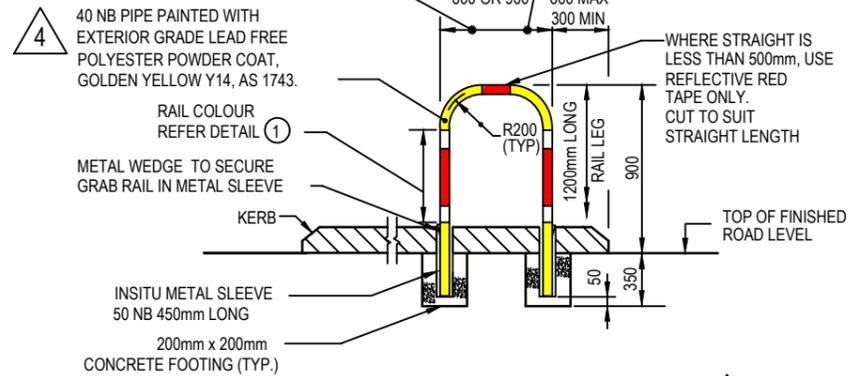


NOTE: IF MEDIAN IS LESS THAN 1.2m WIDE NO GRAB RAIL IS REQUIRED.
IF MEDIAN IS MORE THAN 1.2m BUT LESS THAN 2.0m WIDE, GRAB RAIL TO BE 600mm LONG.
IF MEDIAN IS MORE THAN 2.0m WIDE, GRAB RAIL TO BE 900mm LONG.



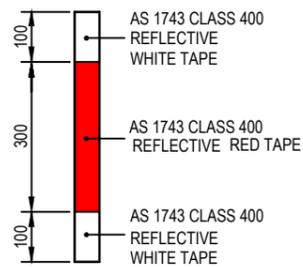
PEDESTRIAN GAP GRAB RAIL
MEDIAN AND MEDIAN ISLAND LOCATION

600mm CLEARANCE TO KERB FACE TO BE ACHIEVED AS A PRIORITY BEFORE OBTAINING DESIRABLE GRAB RAIL LENGTH OF 900mm

WHERE STRAIGHT IS LESS THAN 500mm, USE REFLECTIVE RED TAPE ONLY. CUT TO SUIT STRAIGHT LENGTH

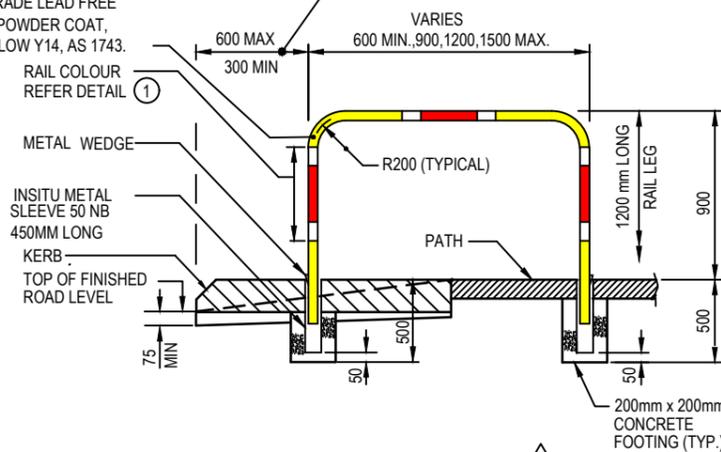
4

40 NB PIPE PAINTED WITH EXTERIOR GRADE LEAD FREE POLYESTER POWDER COAT, GOLDEN YELLOW Y14, AS 1743.

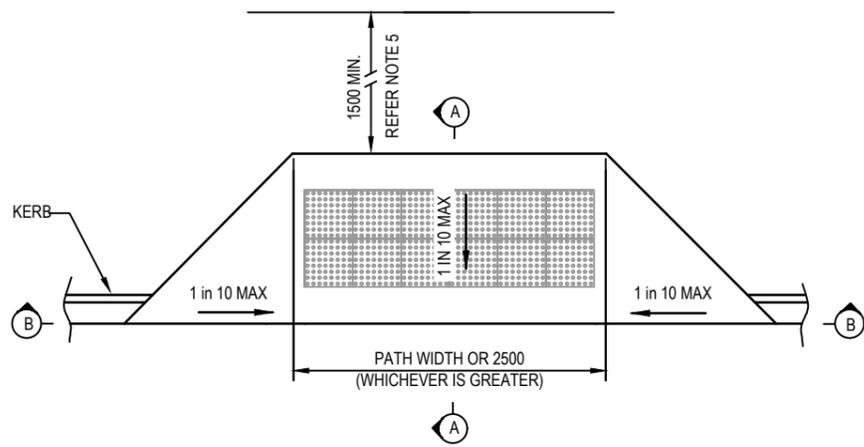


RAIL COLOUR - DETAIL

600mm CLEARANCE TO KERB FACE TO BE ACHIEVED AS A PRIORITY BEFORE OBTAINING DESIRABLE GRAB RAIL LENGTH OF 900mm

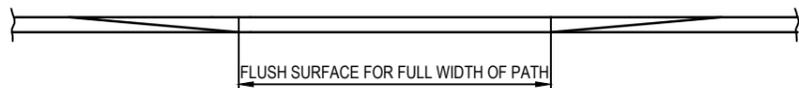


SECTION C-C

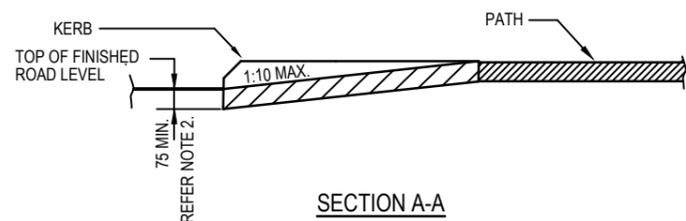


PLAN - KERB RAMP - TYPE A
ROAD VERGE LOCATION
NO GRAB RAIL

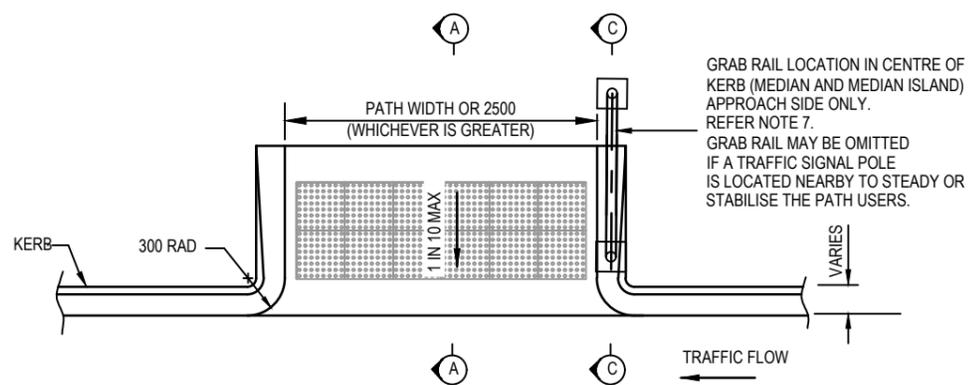
- USED WHEN RAMP CAN BE ACCESSED FROM SIDE (I.E. WINGS ARE ACCESSIBLE FOR PEOPLE WITH DISABILITIES)
- WHEN RAMP CAN BE ACCESSED FROM ONE SIDE ONLY IT IS ACCEPTABLE TO USE THE TYPE A "WING" ON ONE SIDE AND THE TYPE B "KERB RETURN" ON THE OTHER - REFER LEGEND
- USED TO FACILITATE ON-ROAD CYCLISTS TURNING INTO OR OUT OF PATH.



SECTION B-B



SECTION A-A



PLAN - KERB RAMP - TYPE B

MEDIAN AND MEDIAN ISLAND LOCATION

- ALSO MAY BE USED IN ROAD VERGE WHERE RAMP CAN NOT BE ACCESSED FROM SIDE AND ON-ROAD CYCLING IS NOT PERMITTED

LEGEND

- TYPE 'A' ROAD VERGE LOCATION
- TYPE 'B' MEDIAN AND MEDIAN ISLAND LOCATION
- TYPE 'A' + 'B' COMBINED

AMENDMENTS

No.	DESCRIPTION	APPROVED & DATE
3	CLASS 2 CHANGED TO CLASS 400 FOR RETROREFLECTIVE TAPE PROPERTIES.	R.K. 19/11/2018
4	TITLE BLOCK AND FILE No. UPDATED. NOTE 10. ADDED, PIPE COLOUR APPLIED	

NOTES

- EDGE OF RAMP SHALL BE FLUSH WITH ROAD PAVEMENT (ASPHALT OR SEAL).
- WHERE ASPHALT IS NOT TO BE APPLIED IN THE CURRENT STAGE, RAMP PAVEMENT DOWN TO ENSURE MINIMUM CONCRETE THICKNESS OF 75mm AT THE LEADING EDGE. WHERE ASPHALT IS APPLIED LATER, IT SHALL OVERLAY THE LOWER SECTION OF THE RAMP.
- ALL CONCRETE SHALL BE BROOM FINISHED ACROSS THE DIRECTION OF PEDESTRIAN TRAFFIC TO PROVIDE A NON-SLIP SURFACE.
- A MINIMUM OF 2500mm OF KERB SHALL BE PROVIDED BETWEEN ADJACENT RAMPS.
- PATHS PARALLEL TO THE KERB SHALL BE REALIGNED OR WIDENED TO PROVIDE A LEVEL SECTION 1.5m MINIMUM WIDTH BEHIND THE RAMP.
- PEDESTRIAN GAPS SHALL BE A MINIMUM WIDTH OF 2.5m AND BE USED INSTEAD OF KERB RAMPS IN MEDIANS, MEDIAN ISLANDS AND ISLANDS WHERE THE DISTANCE BETWEEN KERB FACES IS LESS THAN 4.5m.
- PEDESTRIAN GRAB RAILS SHALL BE PROVIDED AT MEDIANS AND MEDIAN ISLANDS GREATER THAN 1.2m WIDE. GRAB RAILS ARE TO BE PLACED ON THE TRAFFIC APPROACH SIDE OF THE RAMP AS SHOWN IN KERB RAMP - TYPE B DETAIL.
- CONCRETE CLASS SHALL BE N20.
- KERB RAMPS TO BE SKEWED TO MATCH THE DIRECTION OF THE ROAD CROSSING.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

4

4



PLANNING AND TECHNICAL SERVICES DIRECTORATE
ROAD AND TRAFFIC ENGINEERING BRANCH
Waterloo Crescent EAST PERTH 6004
Telephone 138 138

DRAWN	R.T.E. BRANCH
DESIGNED	R.T.E. BRANCH
VERIFIED	K. TURNER 15.9.98
APPROVED	GRAEME McLEAN 15.9.98
FILE NO.	13/4330

STANDARD DRAWING
RAMP AND GRAB RAIL DETAILS

MRWA DRAWING NUMBER AMENDMENT

9831-5649-4

NOT TO SCALE
A
3