



MAX. SPEED MPH OVERLAY THICKNESS	30 mph (48 kph)	40 mph (64 kph)	50 mph (80 kph)	60 mph (96 kph)	70 mph (112kph)
40	11m	15m	19m	22m	26m
45	12m	16m	20m	24m	28m
100	18m	24m	29m	35m	41m

SAMPLE MINIMUM OVERLAY RAMP LENGTHS (A)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE MINIMUM OVERLAY RAMP LENGTH CAN BE CALCULATED USING THE FOLLOWING FORMULA TO ACHIEVE AN ACCELERATION LEVEL OF 0.6m/S² OVER THE RAMP:-
 $4.06 \frac{V}{\sqrt{H}}$ WHERE:
 V = MAXIMUM TRAFFIC SPEED (m/s)
 H = OVERLAY THICKNESS (m)

 ALTERNATIVELY:
 $1.827 \frac{V}{\sqrt{H}}$ WHERE:
 V = MAXIMUM TRAFFIC SPEED (mph)
 H = OVERLAY THICKNESS (m)
3. EXAMPLES OF MINIMUM RAMP LENGTHS ROUNDED UP TO THE NEAREST METRE ARE GIVEN IN THE TABLE ON THIS DRAWING.
4. THE LENGTHS OF OVERLAY RAMP CALCULATED USING THE ABOVE FORMULA ARE DESIGNED TO PROVIDE AN ACCEPTABLE RIDING QUALITY. HOWEVER, IF AS A RESULT OF APPLYING THE CALCULATED LENGTH OF OVERLAY RAMP A FLAT AREA WOULD BE CREATED THE RAMP LENGTH AND TIE IN POINT WILL NEED TO BE DETERMINED ON A SITE SPECIFIC BASIS TO PREVENT THIS FROM OCCURRING.
5. DETAILS OF OVERLAY MATERIALS AND THICKNESSES ARE GIVEN IN APPENDIX 7/1.
6. TREATMENT OF LAYERS AND VERTICAL SURFACES SHALL BE IN ACCORDANCE WITH CL 903.4. THE BOND COAT SHALL BE IN ACCORDANCE WITH APPENDIX 7/4.

REV	AMENDMENTS	DATE	CAD	CHKD	APPD

CONSULTANT

STUART JARVIS BSc DipTP FCIHT MRTPI: DIRECTOR OF ECONOMY, TRANSPORT & ENVIRONMENT

SCHEME

STANDARD DETAILS

DRAWING TITLE

OVERLAY RAMP AND TIE-IN DETAIL

HCC CADplot: 28.Feb.2020 at 11:16am		
DRAWN MC	CHECKED AH <i>AH</i>	SCALE @ A3 N.T.S
CAD MC	APPROVED SDG <i>SDG</i>	DATE March 2020
DRG No. HCC11/M/035		REVISION

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