



| MAX. SPEED MPH | 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:-
 $4.06 \sqrt{V \cdot H}$ WHERE:
 V = MAXIMUM TRAFFIC SPEED (m/s)
 H = OVERLAY THICKNESS (m)

 ALTERNATIVELY:
 $1.827 \sqrt{V \cdot H}$ 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

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SCHEME

STANDARD DETAILS

DRAWING TITLE

OVERLAY RAMP AND TIE-IN DETAIL

| | | |
|------------------------------------|--------------|------------|
| HCC CADplot: 18.Sep.2015 at 2:14pm | | |
| DRAWN | CHECKED | SCALE @ A3 |
| MC | WW <i>WW</i> | N.T.S |
| CAD | APPROVED | DATE |
| MC | CP <i>CP</i> | July 2015 |
| DRG No. | REVISION | |
| HCC10/M/030 | - | |

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