

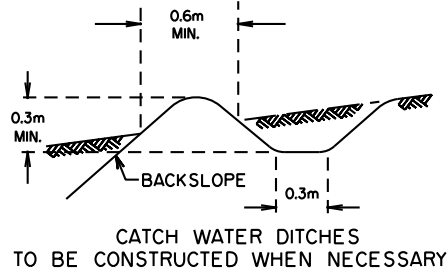
SLOPE RATE TO BE 0.03m/m IF SURFACE TO BE GRAVELLED  
 EXCAVATE MINIMUM 0.6m BELOW DESIGN SUBGRADE SURFACE. COMPACT EXPOSED SURFACE AND RESTORE TO GRADE WITH COMPACTED BACKFILL.

**EARTH CUT SECTION**

- \* WIDTH OF DITCH - 4m STANDARD, 1.5m MINIMUM.
- \* BACKSLOPE VARIABLE UP TO MAXIMUM NOTED. 1.5m TO BE LEFT BETWEEN TOP OF BACKSLOPE AND RIGHT-OF-WAY LIMIT AS SHOWN.
- \* DITCH WIDTH AND ROUNDING AT TOP OF BACKSLOPE TO BE INCREASED AT BEGINNING AND END OF CUT SECTIONS FOR AESTHETICS.

**SUBGRADE AND SURFACING DIMENSIONS**

⊙ FOR CALCULATION OF Z AND S VALUES, REFER TO FIGURE CB6-3.50M6 (NEW CONSTRUCTION) AND FIGURE CB6-3.50M8 (WIDENING).



**FILL SECTION**

- \* 6:1 SLOPES FOR AVERAGE FILLS LESS THAN 2.0m.
- \* 4:1 SLOPES FOR AVERAGE FILLS UP TO 6.5m.
- \* 4:1 SLOPES CAN BE USED ON SHORT SECTIONS OF HIGHWAY FILL UP TO 14m IN HEIGHT (TO ELIMINATE THE NEED FOR GUARDRAIL), PROVIDING THERE ARE NO OBSTRUCTIONS WITHIN OR NEAR THE RIGHT-OF-WAY LIMITS.
- \* 3:1 SLOPES MAY BE USED IN AREAS WHERE GUARDRAIL IS TO BE INSTALLED.
- \* THE CHOICE BETWEEN 4:1 SLOPE AND GUARDRAIL INSTALLATION ON HIGH EMBANKMENTS IS GENERALLY MADE BASED ON LIFE-CYCLE COST-EFFECTIVENESS.
- \* 3:1 SLOPES ARE TO BE USED ON ALL FILLS ADJACENT TO DRAINAGE STRUCTURES OVER 1200mm IN DIAMETER, CATTLE PASSES, OPEN WATER, ETC. WHERE GUARDRAIL INSTALLATION IS NECESSARY FOR HIGHWAY SAFETY.
- \* TRANSITION BETWEEN SLOPES SHALL BE ATTAINED BY USING UNIFORMLY VARYING SLOPES. GENERALLY THE MINIMUM LENGTH OF TRANSITION SHALL NOT BE LESS THAN 60m.
- \* BERM ALSO TO BE CONSTRUCTED ADJACENT TO OPEN WATER.

⚠	REV TO RAU-213	BK	JAN 2003
⚠	CHANGE IN DESIGN SPEED/FILL NOTES	BK	06/93
No.	REVISIONS	BY	DATE

Approved:  
 ORIGINAL SIGNED BY FAI GAN  
 Director  
 Design Engineering Branch  
 Date: DECEMBER 6, 1989



STANDARD CROSS-SECTION FOR RAU-213-130/120

Prepared By: RT	Checked By: B.K.	Scale: N.T.S.	Dwg No: CB6-2.3M26A
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**SUPERSEDED**