



**EARTH CUT SECTION**

- WIDTH OF DITCH - 3.5m 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.

**SURFACING DIMENSIONS**

- $Z = 4(T + 0.1) = 4T + 0.4$
- $X = Z - 4C$
- $S = 4(T + 0.1 - C)$
- WHERE:
  - A = THICKNESS OF ACP (STAGE 1 + STAGE 2)
  - C = THICKNESS OF GBC
  - T = C + A

**FILL SECTION**

- 4:1 SLOPES FOR AVERAGE FILLS LESS THAN 4.0m.
- 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 OR 2:1 SLOPES MAY BE USED UPON APPROVAL 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 30m.
- BERM ALSO TO BE CONSTRUCTED ADJACENT TO OPEN WATER.

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No.	REVISIONS	BY	DATE

Approved:  
 ORIGINAL SIGNED BY ALLAN KWAN  
 Executive Director  
 Technical Standards Branch  
**Alberta**  
 TRANSPORTATION AND UTILITIES

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**STANDARD CROSS-SECTION FOR CAU-210-110 TO ACCOMMODATE FUTURE OVERLAY (USE WHERE EXISTING AADT >600)**

Prepared By: T.N.	Checked By: B.K.	Scale: N.T.S.	Dwg No: CB6-2.3M40A
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**OBSOLETE**  
 Refer to 2.3M40