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### *Inter-Departmental Memorandum*

DATE: August 8, 2006  
TO: Design Team Leaders  
FROM: Roadway Design Division Engineer  
C. Keith Purvis *CKP*  
RE: Bench Sections and Sericea Lespedeza Grass

The attached memorandum dated December 11, 1995 outlines the procedure which should be followed when high cut and fills are encountered on a project. Please follow this procedure during plan development.

In addition to bench sections, special grassing is required for high cuts and fills. Sericea Lespedeza grass should be included on the Vegetation Schedule for projects with high cuts and fills.

#### Attachment

pc: Assistant Roadway Design Division Engineer  
Section Engineers  
Quality Control Engineer  
Geotechnical Branch  
Central File  
Design Memo file



Zack Stewart  
Northern District Commissioner

Wayne O. Burkes  
Central District Commissioner

Ronnie Shows  
Southern District Commissioner



Dr. Robert L. Robinson  
Executive Director

James D. Quin  
Deputy Executive Director/  
Chief Engineer

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*Roadway Design Division Memorandum*

**Date:** December 11, 1995  
**To:** Design Squad Leaders  
**From:** Roadway Design Engineer  
John Pickering *J.P.*  
**Subject:** Bench Sections

When extremely deep cuts or high fills are encountered on a project, the Geotechnical Branch of Materials Division should be provided plans for their investigation and recommendations. Deep cuts and high fills are defined as follows:

- **Cut Sections** greater than 10 meters (32.8 feet), measured vertically from subgrade to the top of the backslope.
- **Fill sections** greater than 14 meters (45.9 feet), measured vertically from subgrade to the toe of the slope.

Whenever the above limits are reached, you are required to plot bench sections on your cross-sections through the entire cut or fill section before sending to the Geotechnical Branch. Typical bench sections (English and metric) are shown on the attached drawings.

The Geotechnical Branch should be provided the following plans as soon as available:

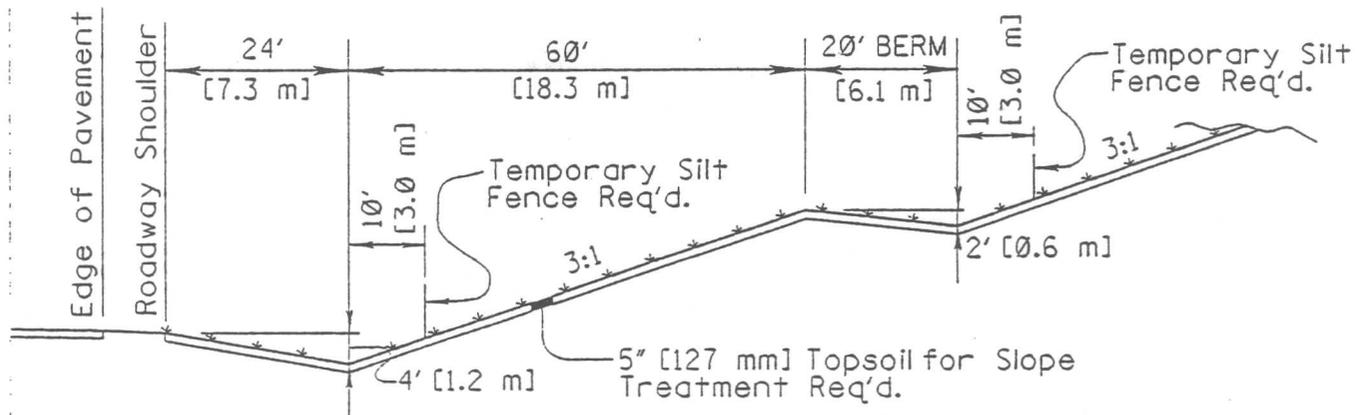
1. Title Sheet
2. Typical Bench Section(s) with station limits indicated.
3. Plan-Profile Sheet(s)
4. Cross-Section Sheets

The Geotechnical Branch will provide confirmation or alternate recommendations for the area(s).

Attachment

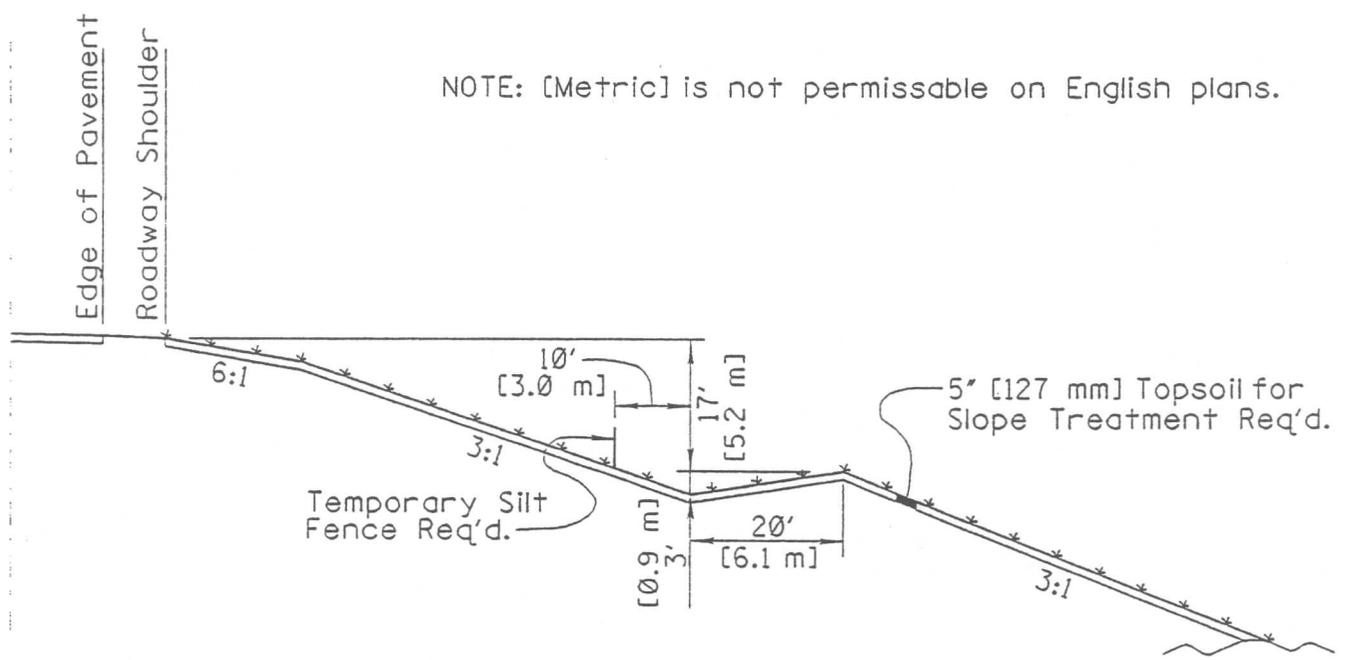
pc: Asst. Roadway Design Division Engineer  
Section Engineers  
Quality Control Engineer  
Geotechnical Branch  
Active Consultants  
Central File  
Design Memo File





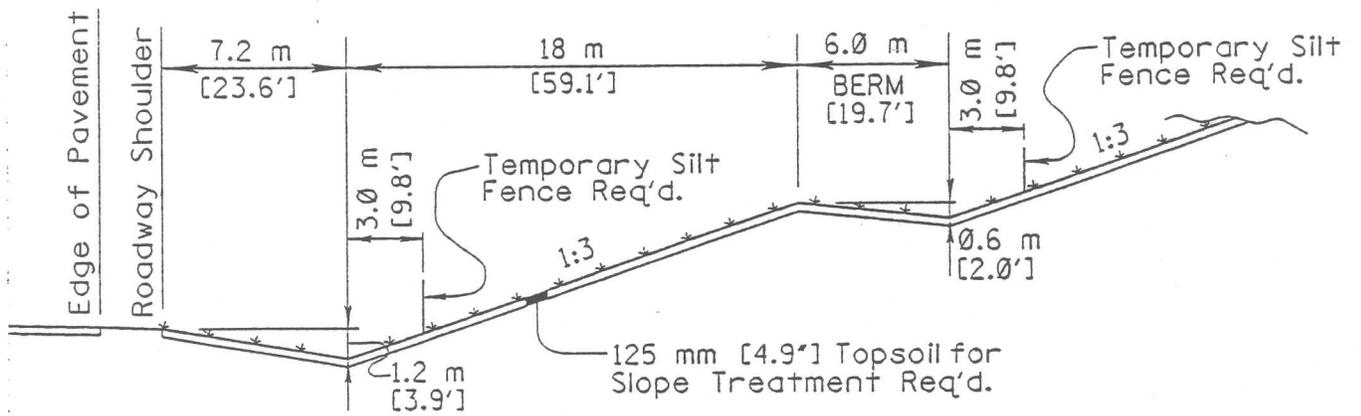
**DETAIL OF BENCH IN A CUT SECTION**

NOTE: [Metric] is not permissible on English plans.



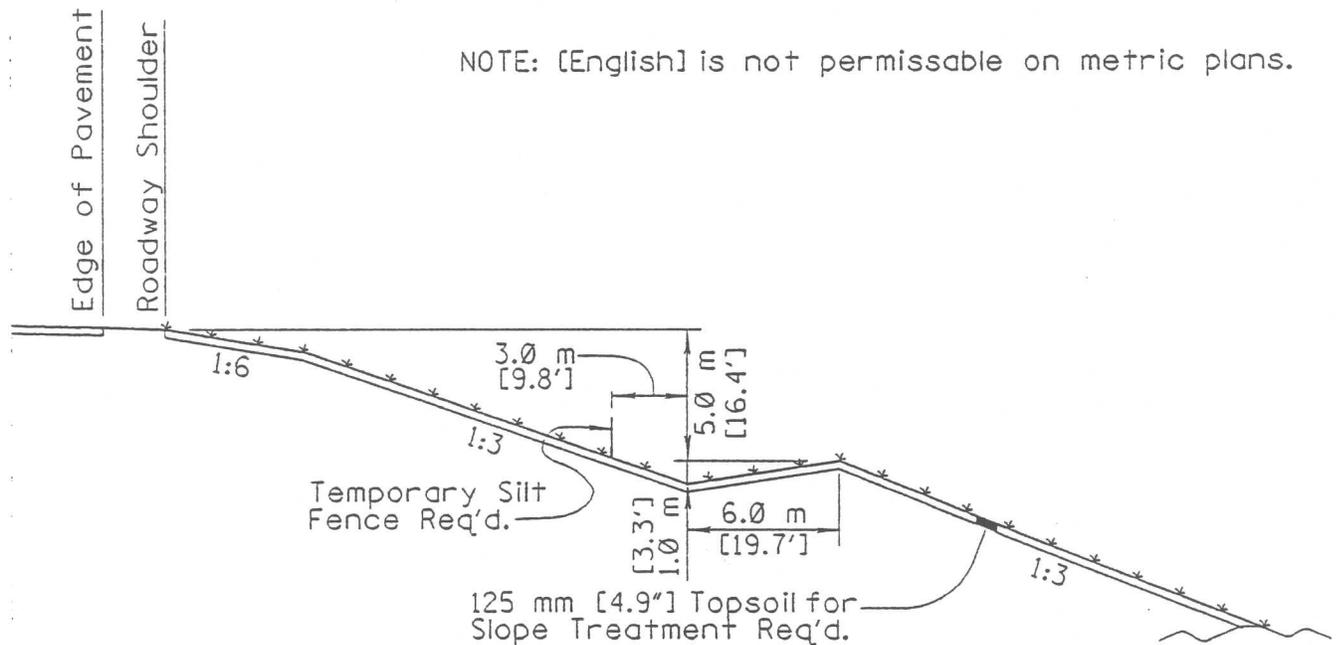
**DETAIL OF BENCH IN A FILL SECTION**

# EXAMPLE OF BENCH SECTIONS (English)



**DETAIL OF BENCH IN A CUT SECTION**

NOTE: [English] is not permissible on metric plans.



**DETAIL OF BENCH IN A FILL SECTION**

# EXAMPLE OF BENCH SECTIONS (Metric)