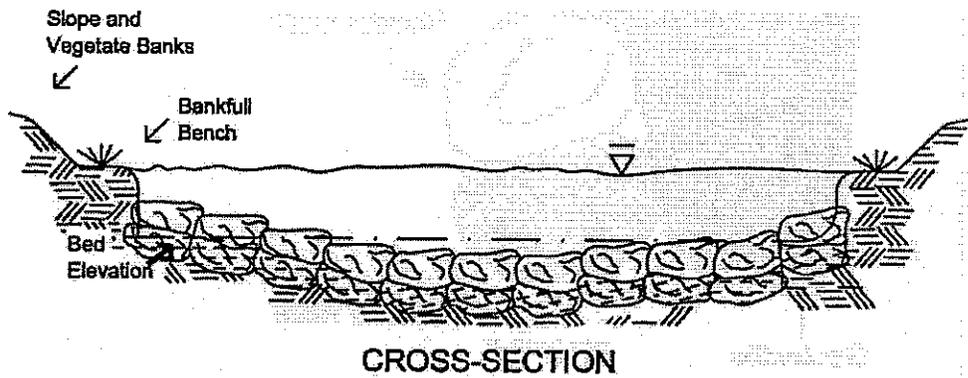
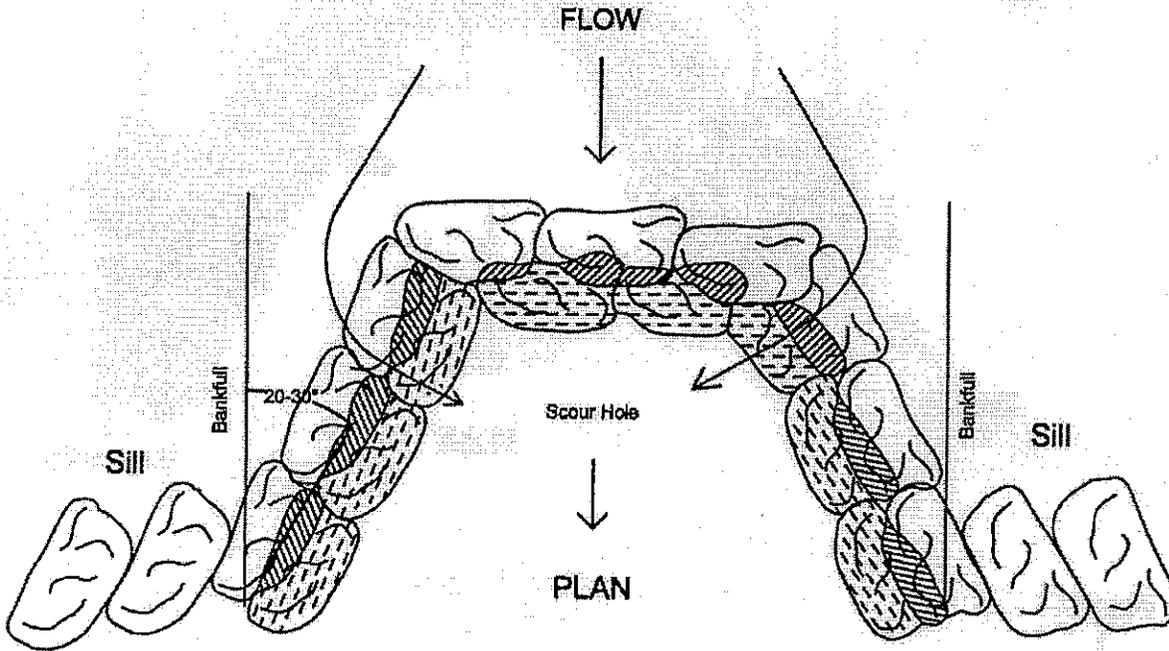
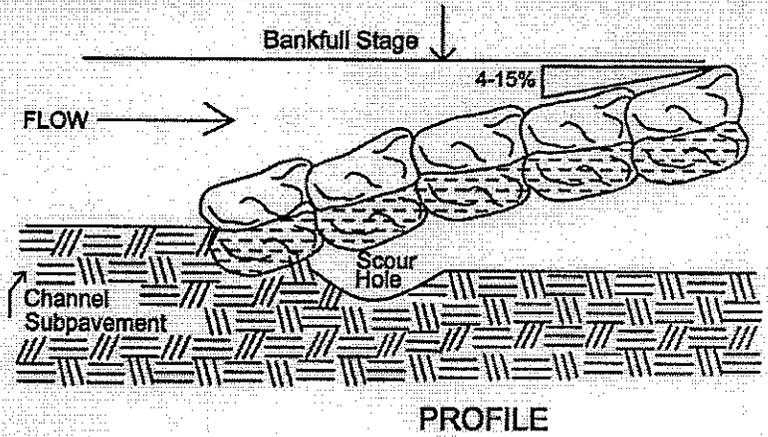


Appendix B
STREAM BANK STABILIZATION TECHNIQUES

Note:

-There should be no gaps between the rocks in the cross vane.



Legend

	
Header Rock	Vegetation
	
Footer Rock	

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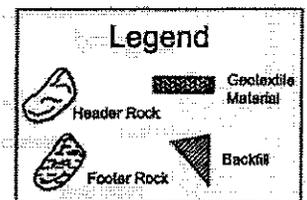
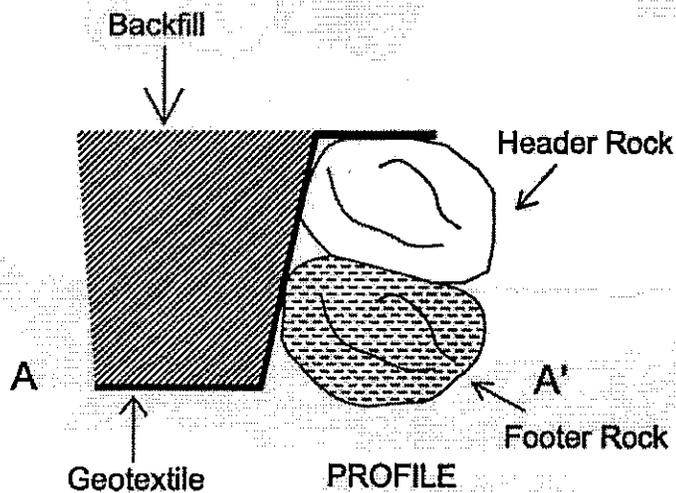
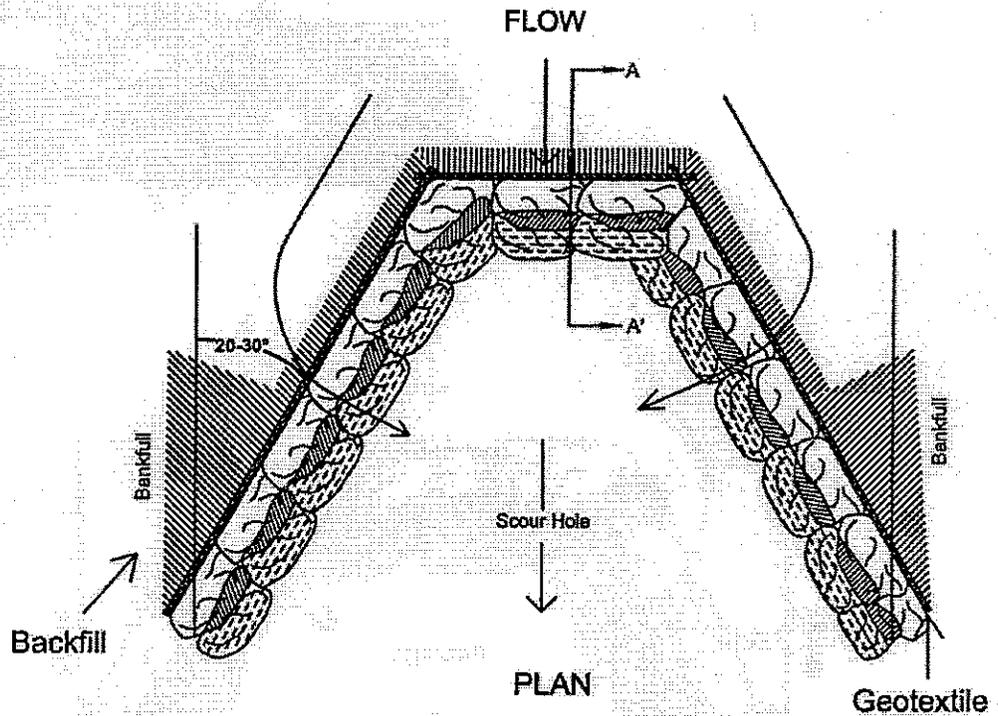
Date: 6/12/03



Cross Vane Detail

(Adapted from Rosgen, 1998)

Note:
 -There should be no gaps
 between the rocks in the cross
 vane.

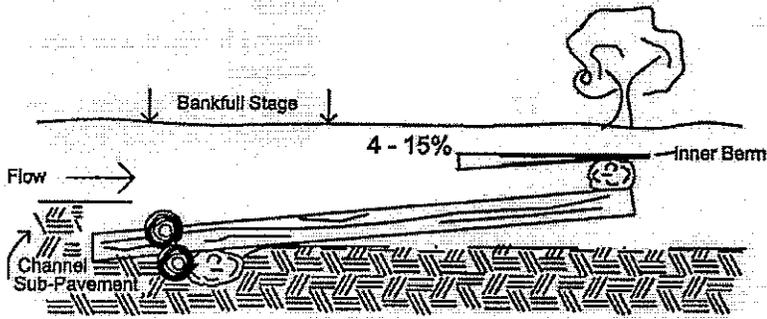


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Cross Vane with Geotextile Detail

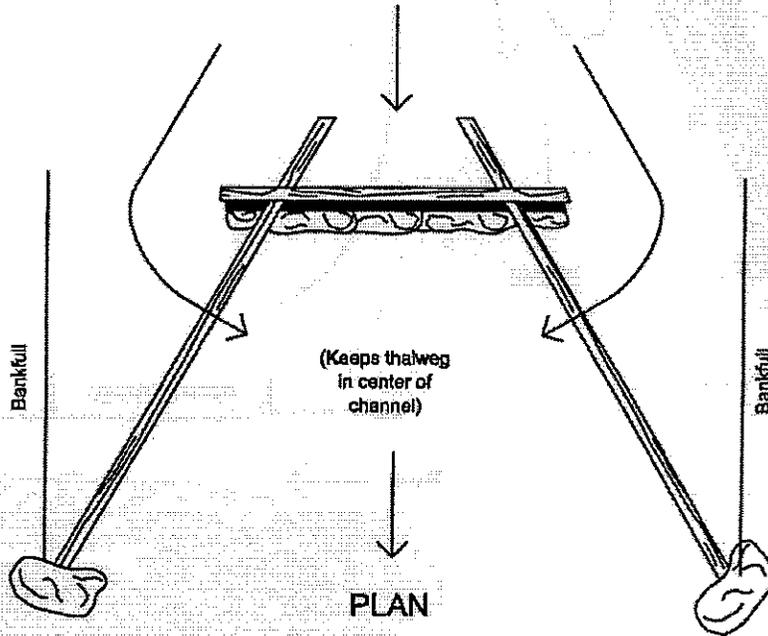
(Adapted from Rosgen, 1998)



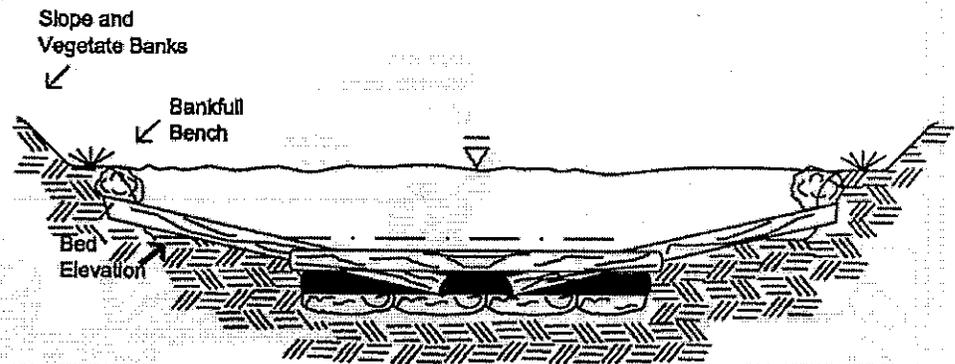
PROFILE

FLOW

Note: Use of geotextile material on upstream side of logs is strongly recommended



PLAN



CROSS-SECTION

Legend

-  Header Rock
-  Header Log
-  Vegetation
-  Footer Log

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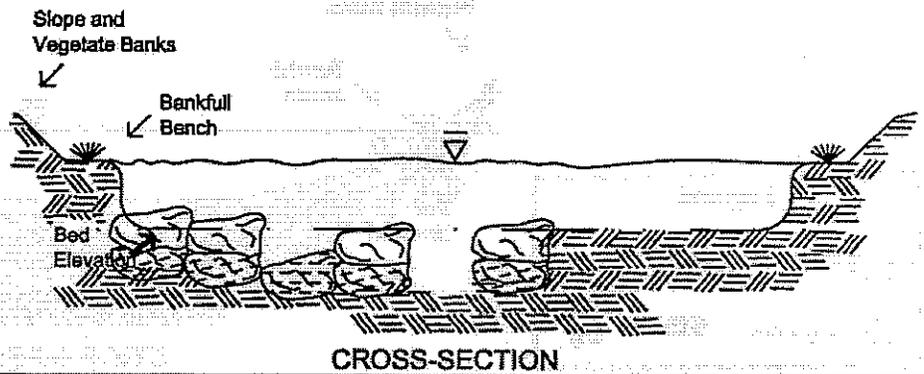
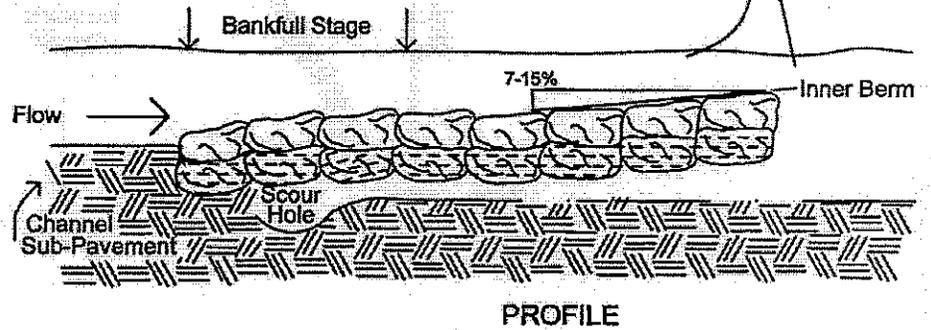
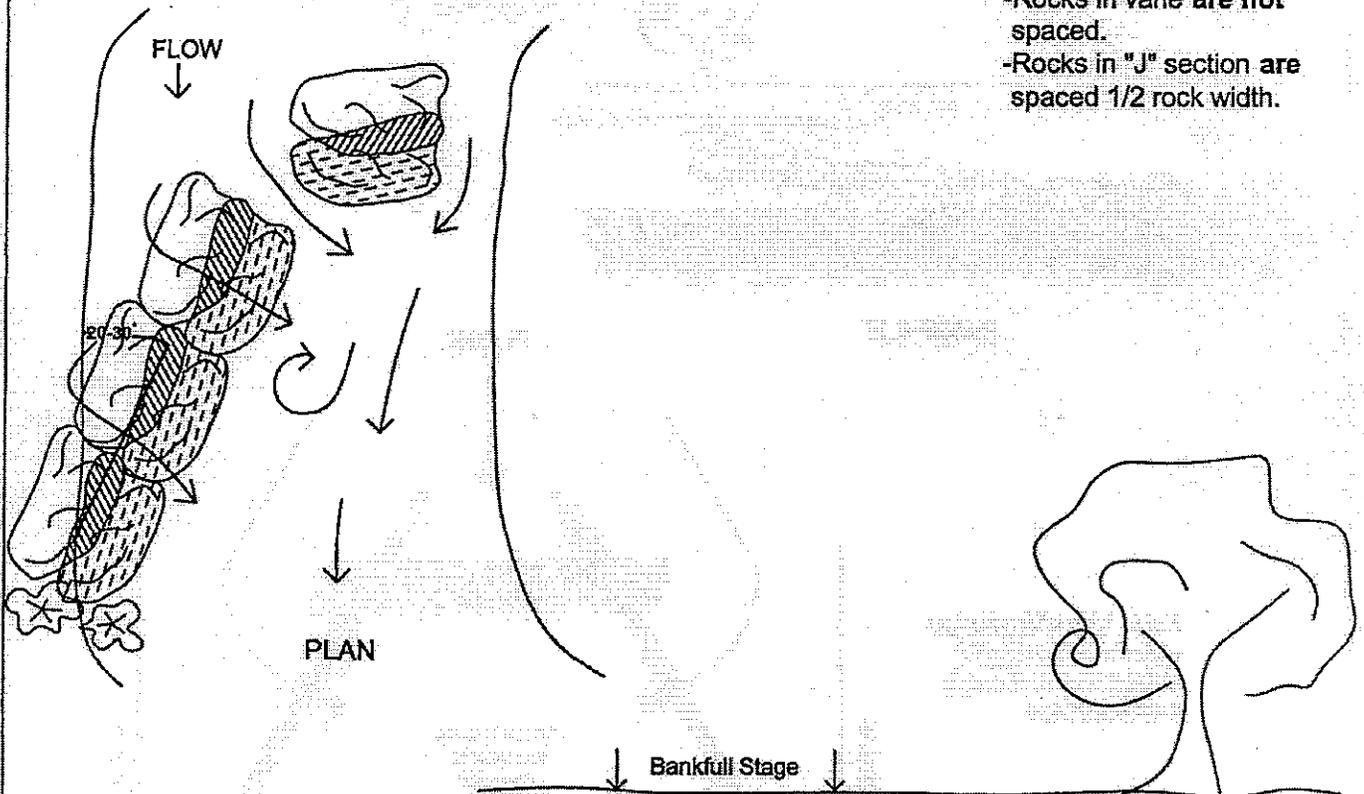
Log Vane Detail

(Adapted from Rosgen, 1998)

Structure spans 1/2 to 2/3 of stream width.

Notes:

- Rocks in vane are not spaced.
- Rocks in "J" section are spaced 1/2 rock width.



Legend

	Header Rock		Tree
	Footer Rock		Vegetation

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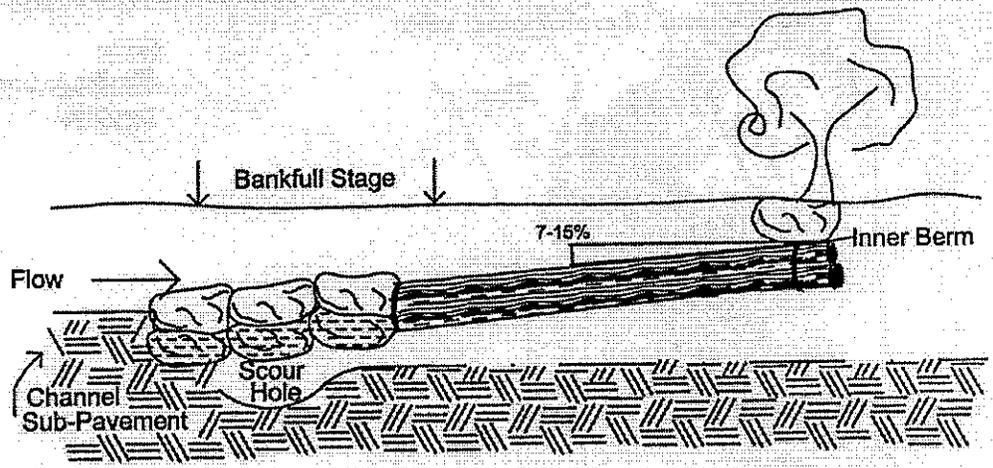
J-Hook Vane Detail

(Adapted from Rosgen, 1998)

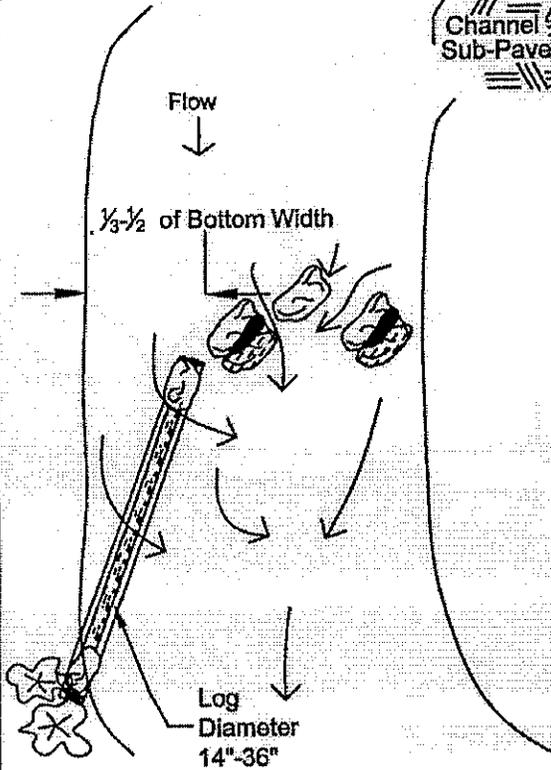
Notes:

-Rocks in "J" section are spaced $\frac{1}{2}$ rock width.

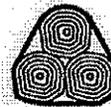
-Use of geotextile upstream of logs is recommended



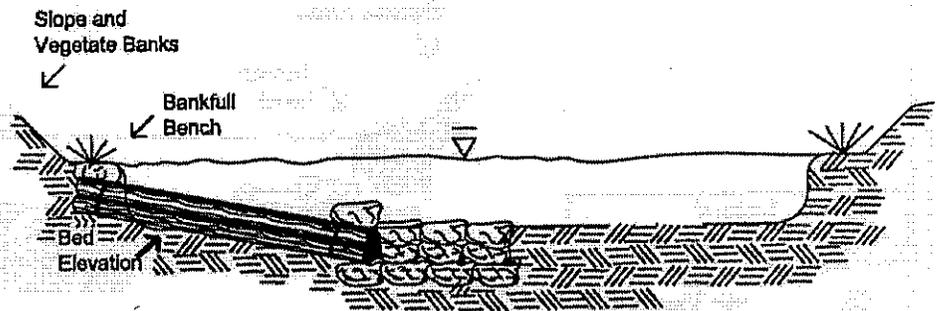
PROFILE



PLAN



For logs <24" diameter, cable 3 logs (10"-12") on ends using $\frac{1}{2}$ " cable. Bottom two logs should be below the stream bed.



CROSS-SECTION

Legend

-  Header Rock
-  Footer Rock
-  Tree
-  Log

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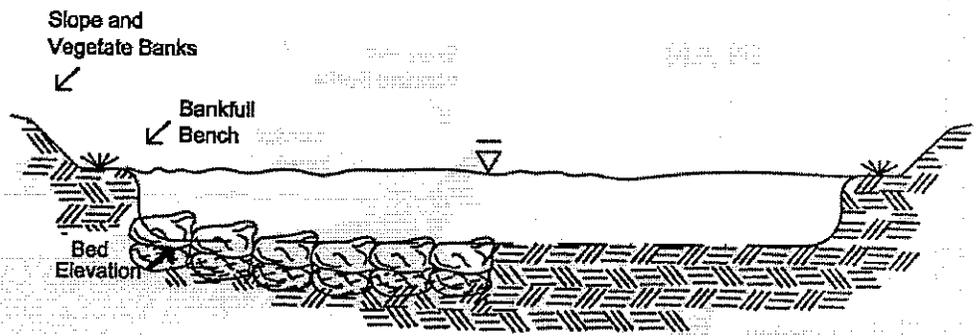
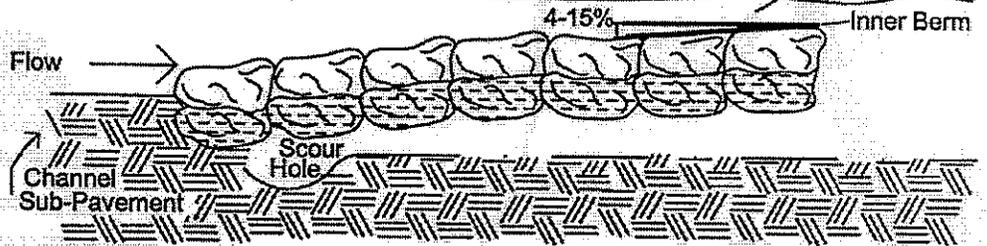
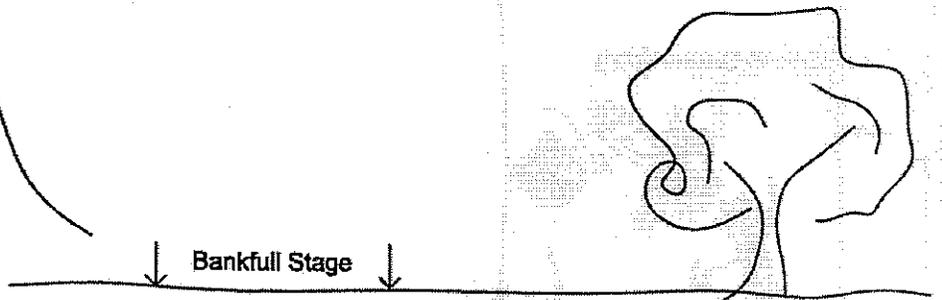
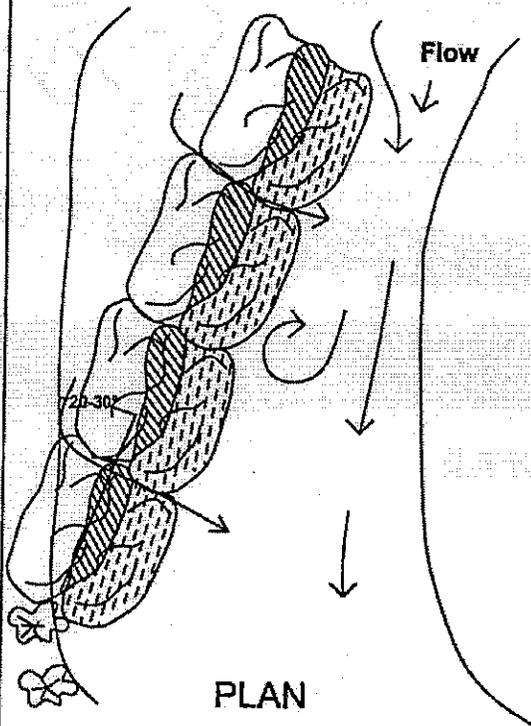
Date: 6/12/03

Log J-Hook Vane Detail

(Adapted from Rosgen, 1998)

Structure spans 1/2 to 2/3 of stream width.

Note:
-Rocks in vane are not spaced.



Legend

- Header Rock
- Footer Rock
- Vegetation

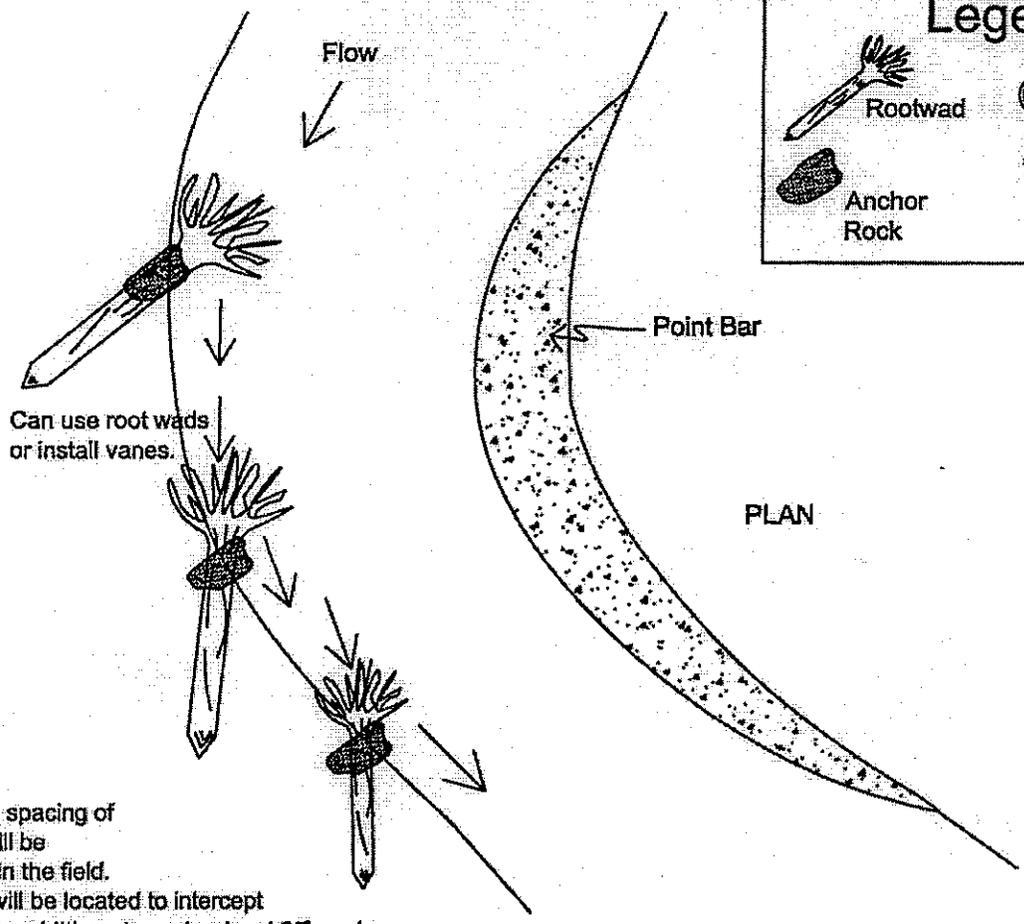
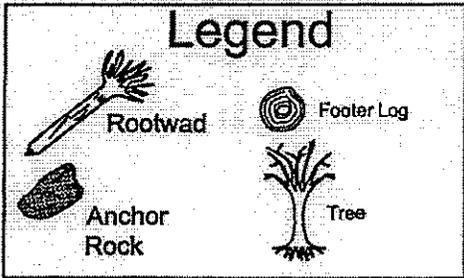
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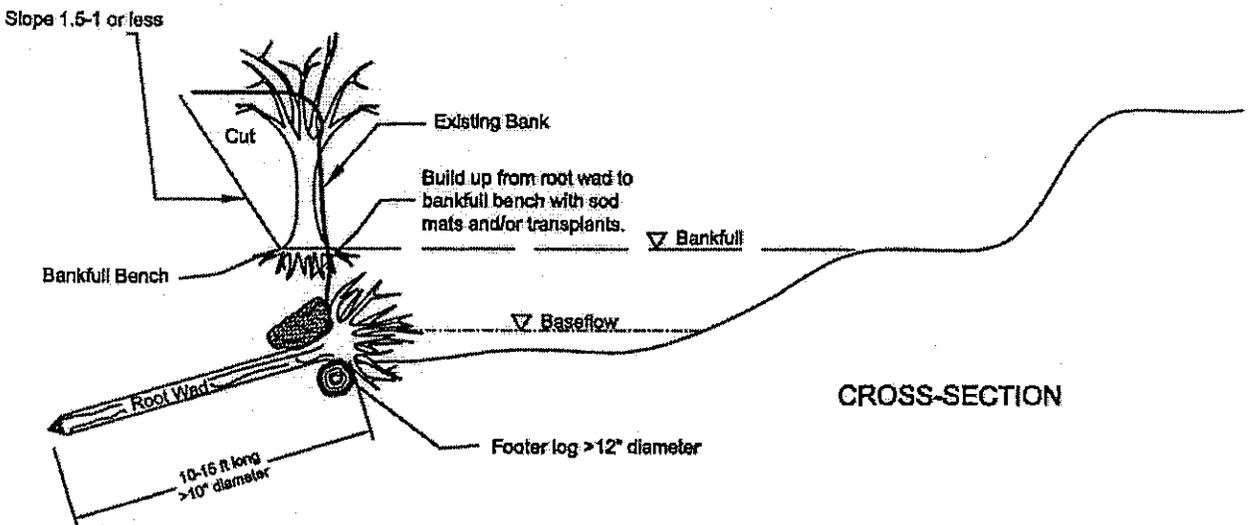
Date: 6/12/03

Single Vane Detail

(Adapted from Rosgen, 1998)



Notes:
 Longitudinal spacing of root wads will be determined in the field.
 Root wads will be located to intercept velocity vectors hitting streambanks at 90° angles.



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Date: 6/12/03

Root Wad Detail

(Adapted from Rosgen, 1998)