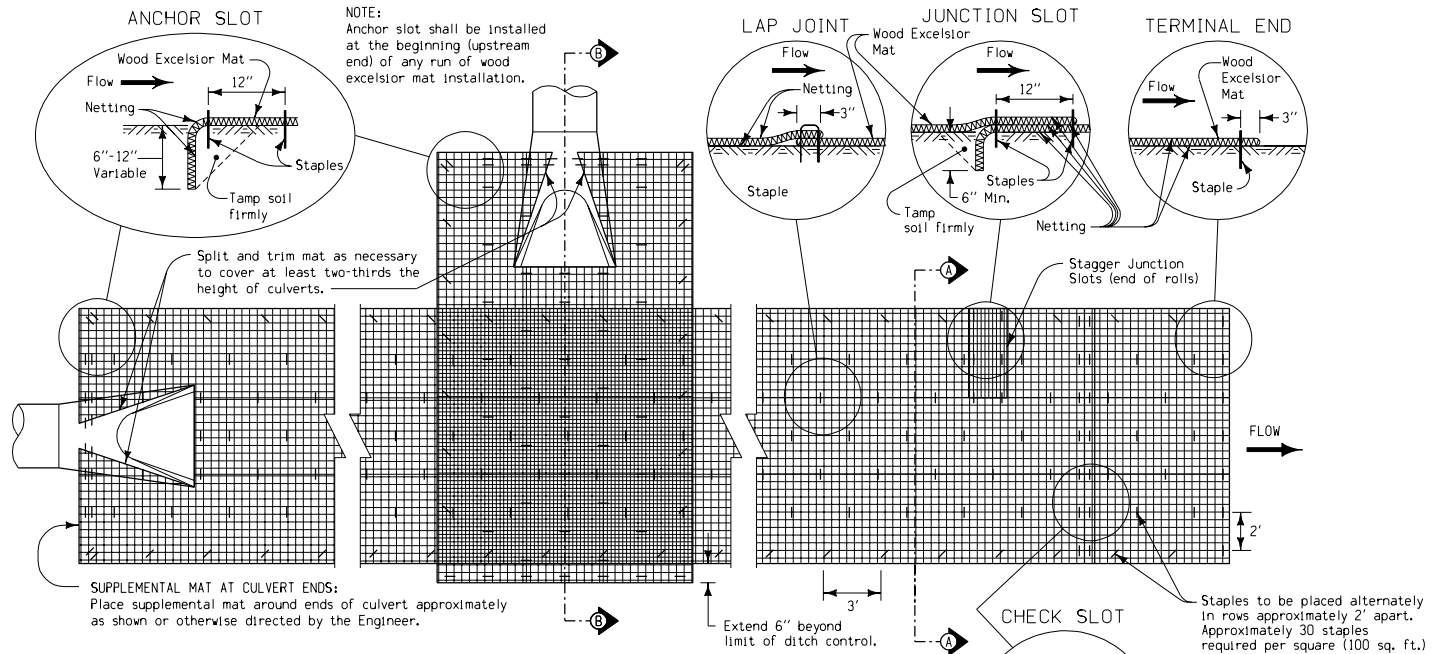


**NOTE:**  
Anchor slot shall be installed at the beginning (upstream end) of any run of wood excelsior mat installation.



TYPICAL PLAN FOR WOOD EXCELSIOR MAT (SPECIAL DITCH CONTROL)

**GENERAL NOTES:**  
Wood excelsior mat for special ditch control shall be installed as indicated. Materials and methods of installation shall be in conformance with current Standard and Supplemental Specifications and as directed by the Engineer.

The wood excelsior mat shall be subject to approval by the Engineer at the job site. Approval of the final project constitutes approval of the material.

At locations where silt conditions require shaping of a ditch to provide a proper type of area for installation of wood excelsior mat for special ditch control, the necessary excavation shall be done by the Contractor.

All excavated material should be wasted to fill low areas, gullies, backslope scours, and otherwise facilitate the free flow of surface water into the channel as directed by the Engineer. Alignment should be smooth and abrupt changes should be avoided.

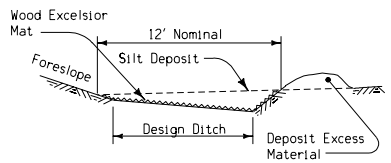
At locations where erosion has created gullies in ditches or backslopes, the gullies shall be filled and compacted in not more than 8 inch lifts.

The work of providing proper ditches shall not be paid for directly but shall be considered incidental to other work on the project.

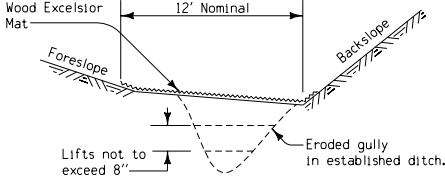
**SPECIAL NOTES:**  
The wood excelsior mat shall comply with the following minimum requirements:

- A mat of interlocking wood fibers with a plastic netting applied to both sides for holding the excelsior in place. The mat shall be non-toxic to the growth of plants and germination of seeds.
- The mat shall be furnished in rolls as follows:
  - Width of Strips - Min. 48 inches, plus or minus 1 inch.
  - Length of Rolls - Min. 180 feet.
  - Min. Wt. per Sq. Yard - 0.88 lbs.

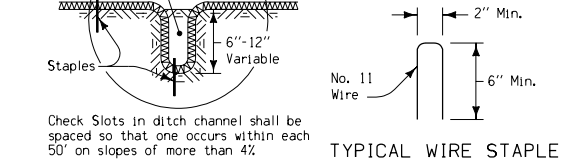
The netting applied to both sides of the mat shall have a mesh size approximately 5/8" by 3/4". Netting shall be polypropylene and black or green in color. The material shall be furnished in plastic bags or otherwise protected to prevent damage from weather conditions and handling.



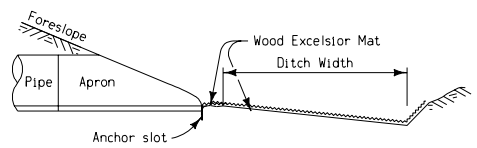
SECTION A-A  
Wood excelsior placement for silted area in no ditch section.



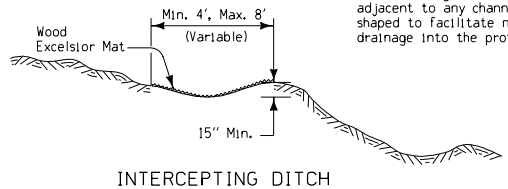
SECTION A-A  
Wood excelsior placement for eroded gully.



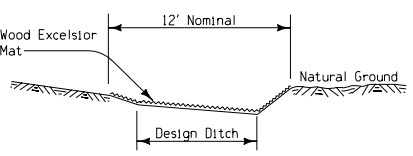
Check Slots in ditch channel shall be spaced so that one occurs within each 50' on slopes of more than 4%.



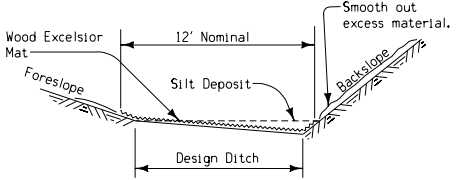
**NOTE:**  
Special care shall be taken to ensure that ground surface adjacent to any channels are shaped to facilitate natural drainage into the protected area.



INTERCEPTING DITCH



SECTION A-A  
Wood excelsior placement where excavation is required for proper installation.



SECTION A-A  
Wood excelsior placement for silted ditch in cut

Iowa Department of Transportation Project Development Division	
<b>STANDARD ROAD PLAN</b>	<b>RC-5</b>
REVISION: Redrawn in CADD.	REVISION NO. 5
<i>John C. Christ</i> 12-28-98 APPROVED BY DESIGN METHODS ENGINEER	REVISION DATE 04-27-99
EROSION CONTROL DETAILS (WOOD EXCELSIOR MAT)	