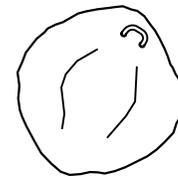
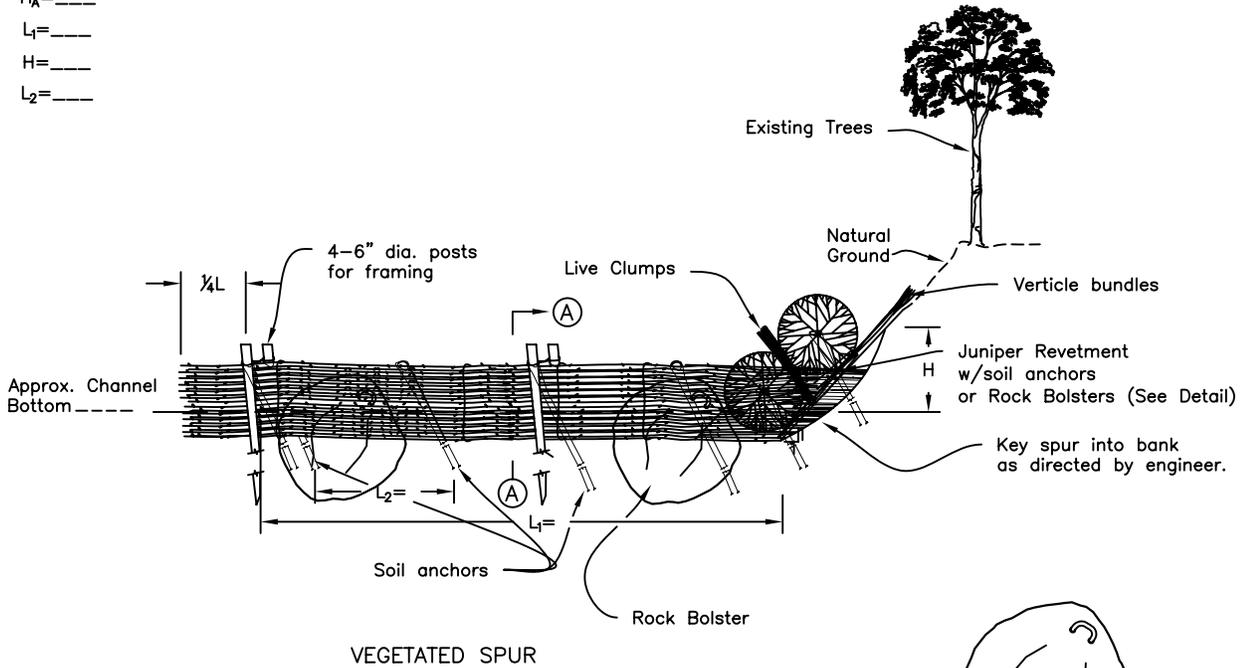


$H_A =$ ___
 $L_1 =$ ___
 $H =$ ___
 $L_2 =$ ___



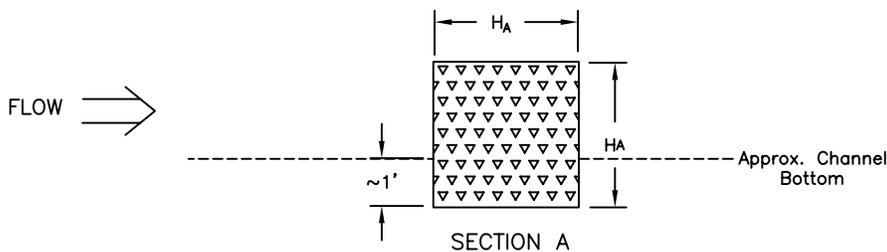
ROCK BOLSTER DETAIL
N.T.S.

NOTES: For Vegetated Spur

- 1) Remove loose and failing bank material, excavate key into bank as shown
- 2) Excavate trench along alignment of spur at depth as shown. Trench should be a minimum of $\frac{1}{4}$ thickness of vegetated spur at section A.
- 3) Install two pairs of framing posts at width of spur.
- 4) Place live material tightly between anchor posts. Butt ends shall be firmly into bank as length of material permits. Material shall overlap by $\frac{1}{3}$ - $\frac{1}{2}L$.
- 5) Install soil anchors in pairs or Rock Bolster as specified.
- 6) Tightly secure live material to soil anchors with ratcheting cable clamps.
- 7) Place vertical bundles into key area as shown. Butt ends of live material must extend firmly to soil.
- 8) Backfill over key.
- 9) Install juniper revetment over spur at bank if specified.

Notes:

Secure logs to rock bolsters at overlap with a minimum of three wraps of $\frac{1}{8}$ - $\frac{1}{4}$ " diameter alvanized non-greased, wire rope. If constructing in or near water drill holes in rock bolsters with gas or pneumatic drill. Holes must be clean of all dust, debris, oil, and soap following drilling. Insert a U-shaped 1" rebar into holes several times to dispense and completely mix epoxy and eliminate air pockets. Epoxy resin systems shall meet the requirements of ASTM C881, Type IV Grade 3. Test strength of bond after minimum cure time recommended by the epoxy manufacturer.



Conceptual Plan - Not for Construction

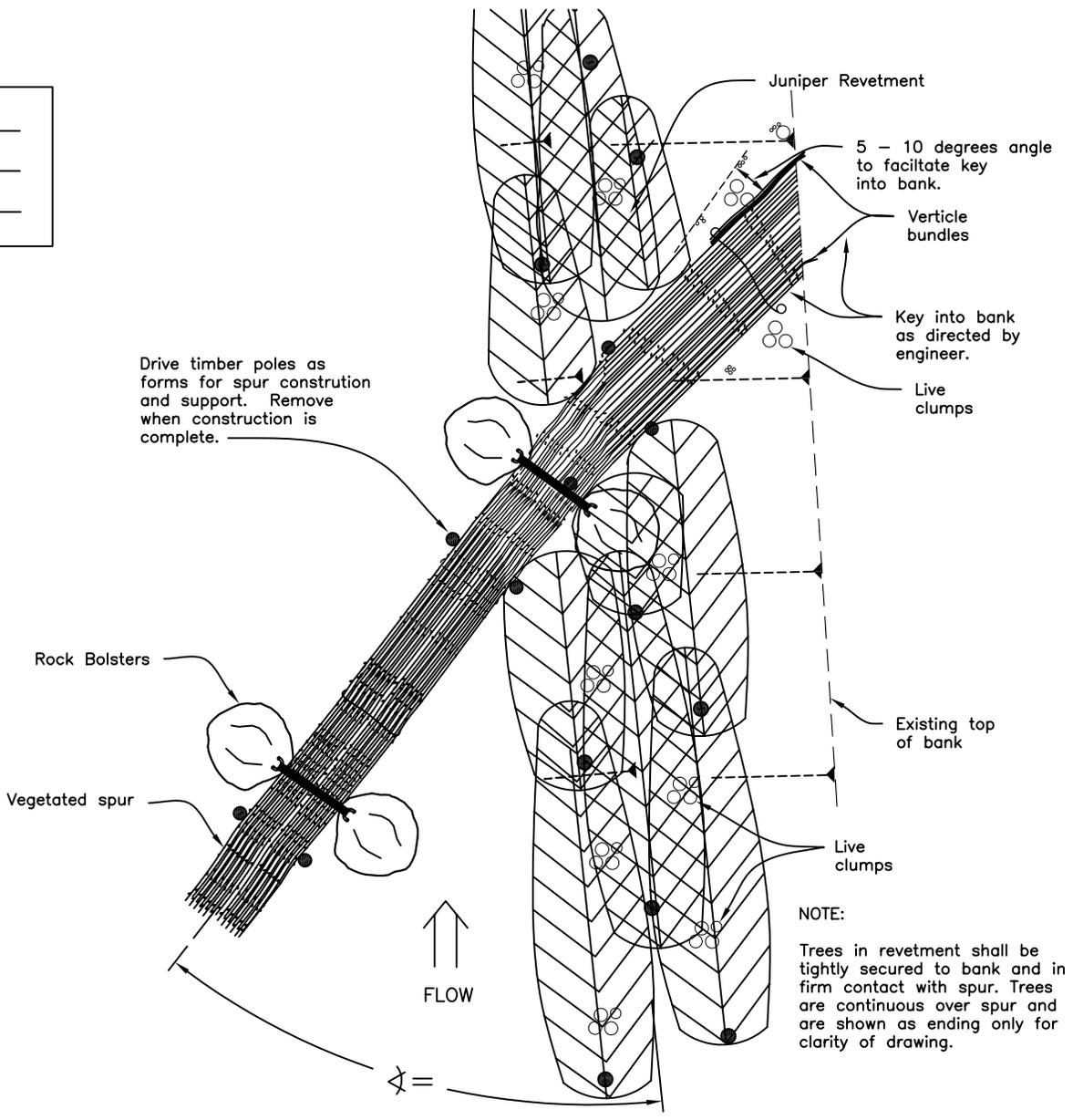
Drawings not to scale



VEGETATED SPUR AND JUNIPER REVETMENT

J. Fripp, L. Saele Designed <u>C. Hogg</u>	Date <u>08/05</u>	File Name VEGE-VANE-1.dwg
Drawn <u>Juan Renteria</u>	<u>08/05</u>	Drawing Name Veg-Vane-1Section
Checked _____		<u>02/02/06</u>
Approved _____		Sheet 2 of 2

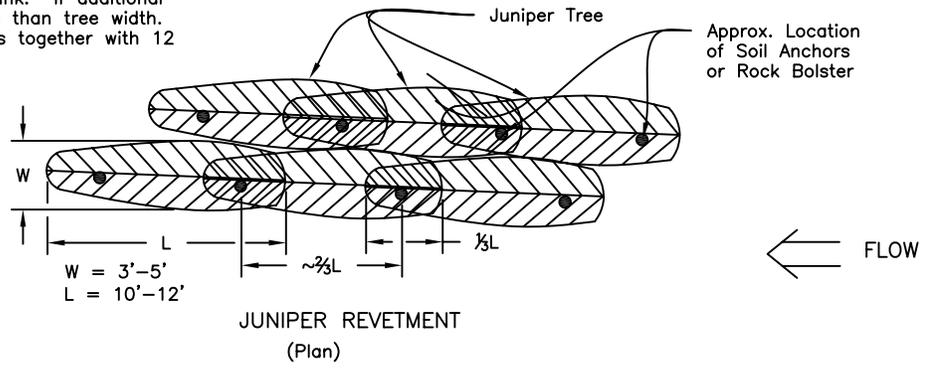
L= _____
 S= _____
 HA= _____



VEGETATIVE SPUR WITH JUNIPER REVETMENT
 (Plan)

Notes For Juniper Revetment

Overlap juniper by $\frac{1}{4}$ to $\frac{1}{3}$ length in a shingle-like arrangement. Secure at overlap with three wraps of 12 gage wire or $\frac{1}{8}$ " cable and clamp securely. Anchor with a minimum of two sets of soil anchors per trunk as per specifications. Start at toe of bank. If additional rows are required, offset by not more than tree width. Press rows tight together. Cable rows together with 12 gage wire or $\frac{1}{8}$ " cable and clamp.



JUNIPER REVETMENT
 (Plan)

Drawings not to scale



VEGETATED SPUR AND
 JUNIPER REVETMENT

J. Fripp, L. Saele	Date	File Name
Designed C. Hoag	08/05	VEG-VANE-1.dwg
Drawn Juan Renteria	08/05	Drawing Name
Checked _____		Veg-Vane-1Plan
Approved _____		09/15/05
		Sheet 1 of 2