

Designing Fundable Large Wood Projects with the CCCs



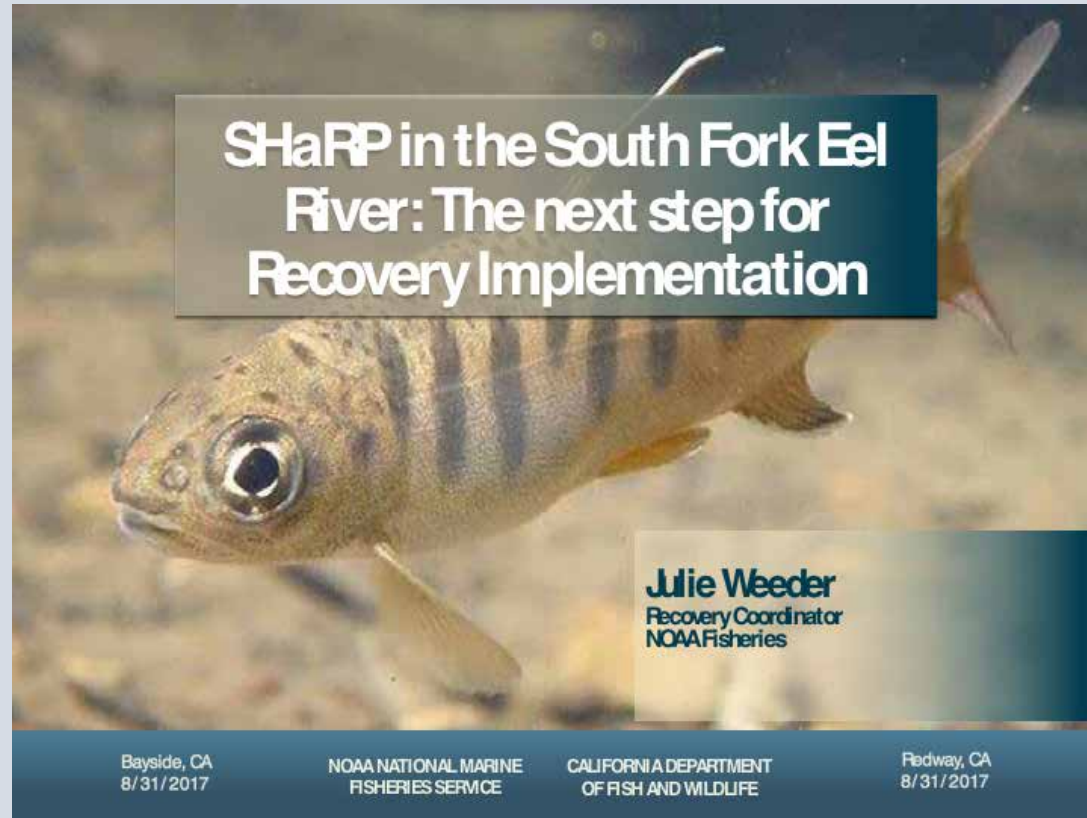
Eel River Watershed Improvement Group
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The Design Process



01/20/2021 14:00

Determine streams to target for restoration using local knowledge, recovery plans, assessments, and/or landowner requests.



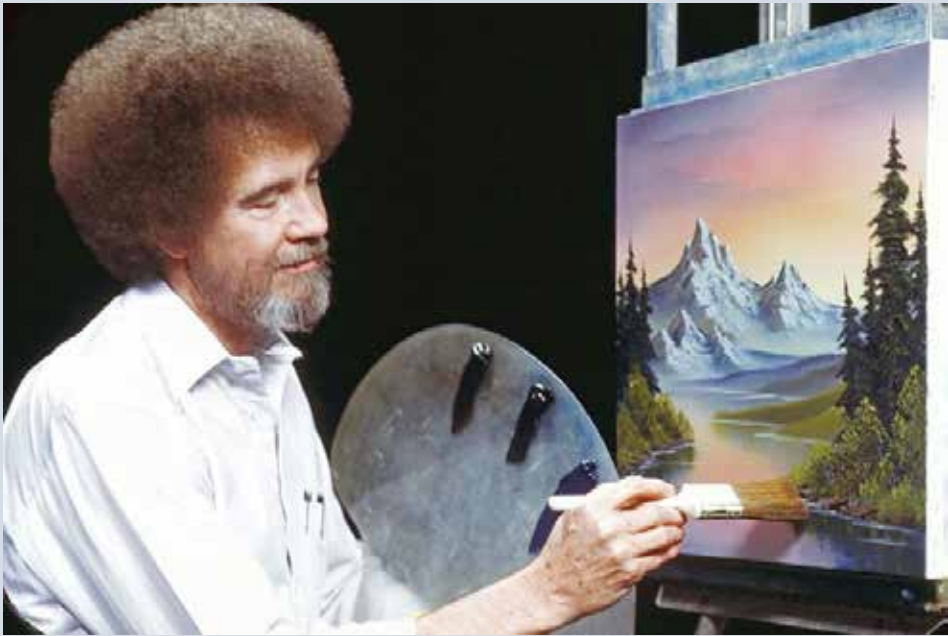
Conduct a wood survey, determine stream needs and target values.

- Number of pieces of wood
- Number of Key Pieces (how are you defining? SONCC/CCC/FRGP)
- Is the stream aggrading or degrading?
- Dominant substrate size
- Pool quality
- Spawning gravel availability
- Gradient



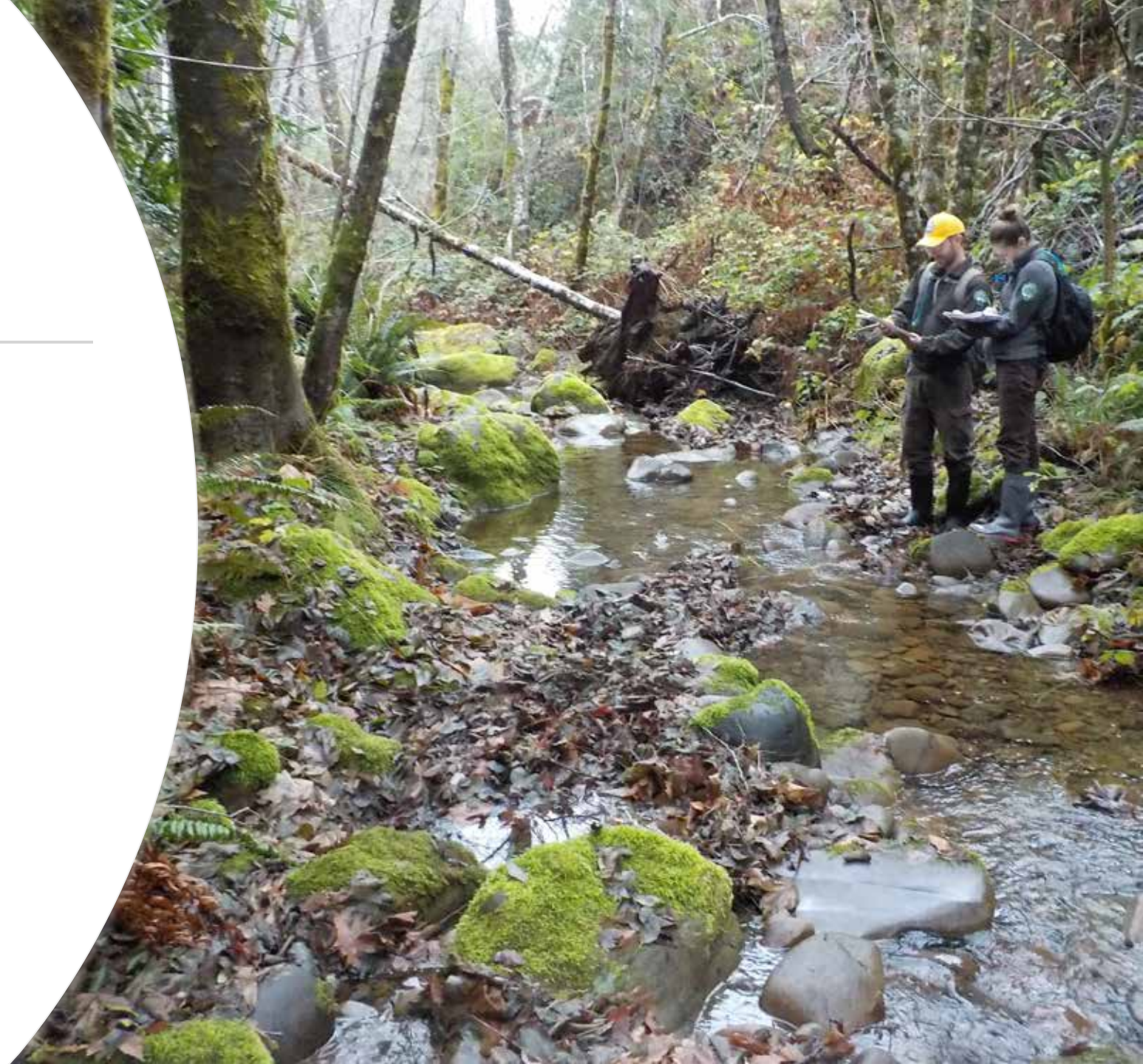
01/19/2021

Gather crew, tools and artist materials



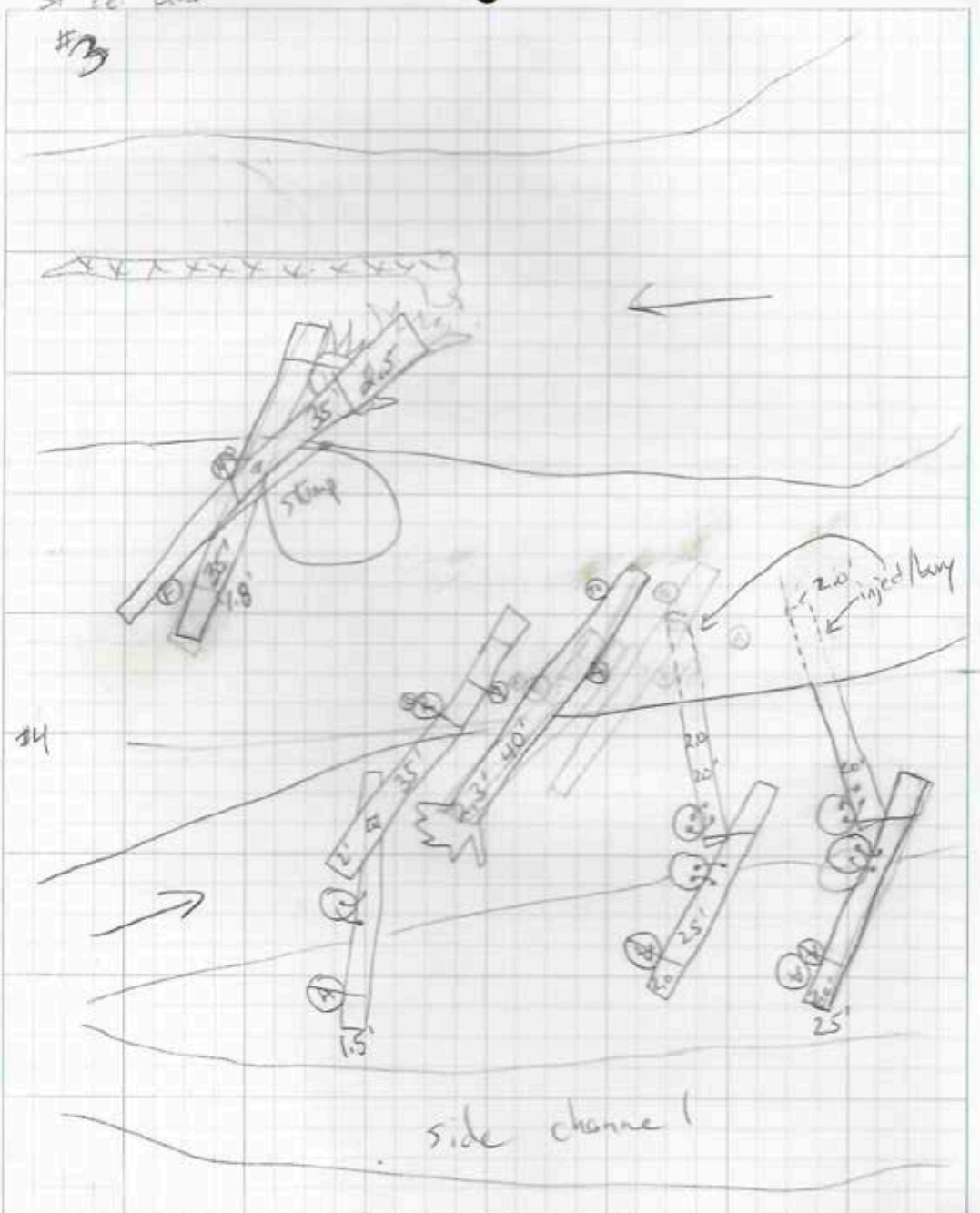
Sketch Designs and Collect Measurements

- Feature Number (footage)
- Coordinates
- Existing Habitat Classification
- Dominant substrate
- Dominant cover type and %
- Max residual pool depth
- Bankfull width
- Brief feature description
- Estimated length to be treated
- Estimated length to be disturbed
- Estimated feature square footage
- Objective
- Log lengths
- Photos

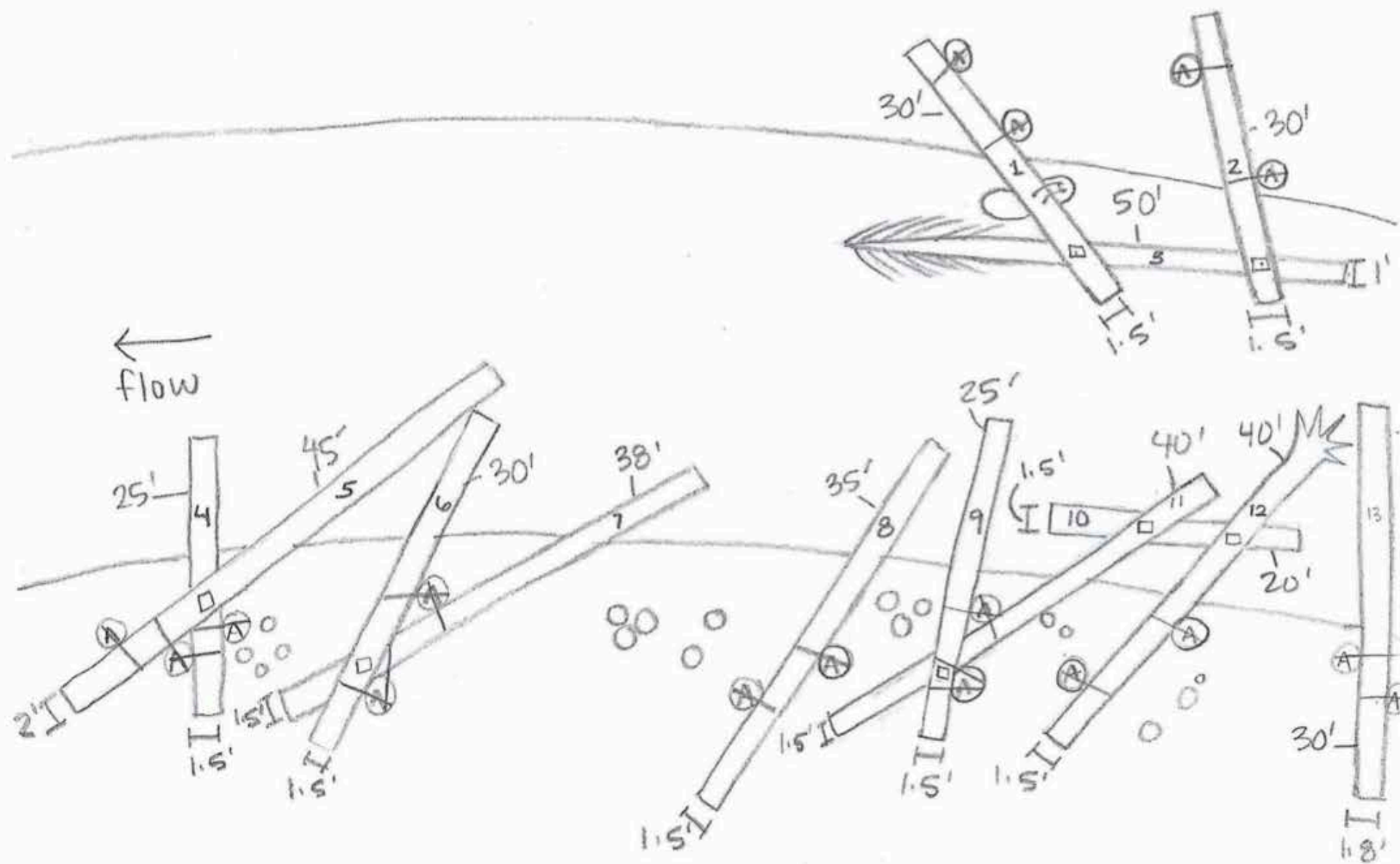


SF Est River

#3



Feature # 13143



Feature: 13143

Coordinates: 40.05495, -123.85178

Existing Conditions: Run

Bankfull Width: 37 feet

Max residual depth: 1.4 feet

Dominant substrate: Boulder/gravel

Dominant cover type: Boulder, <5%

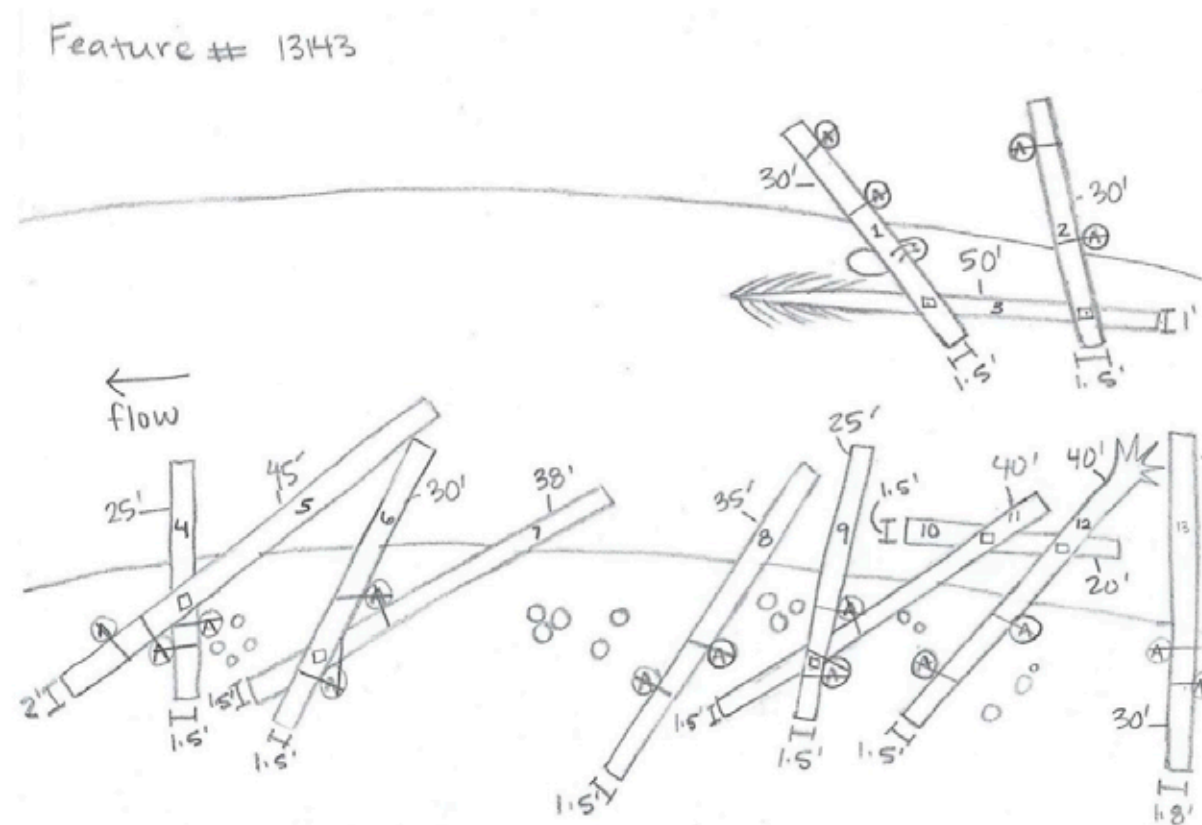
Project: Log 3 is underneath and anchored to logs 1 and 2 as a cover log. Log 5 is on top of and anchored to log 4. Log 6 is on top of and anchored to log 7. Log 9 is on top of and anchored to log 11. Log 10 is underneath and anchored to logs 11 and 12 as a cover log. One dead and down Douglas fir will be used for this project. The rest of the logs will be sourced from riparian and upslope redwoods and Douglas firs.

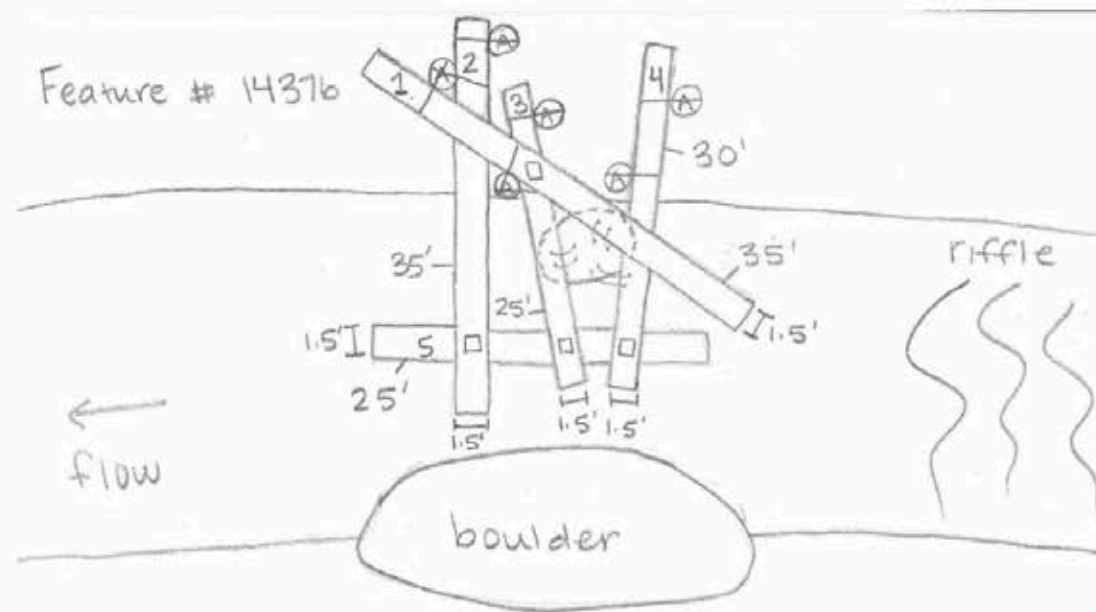
Length Treated: 85 feet

Length Disturbed: 30 feet

Square Footage: 335 ft²

Objective: Increase cover, scour, and velocity refugia.





Feature: 11245 **Coordinates:** 40.05378, -123.84845

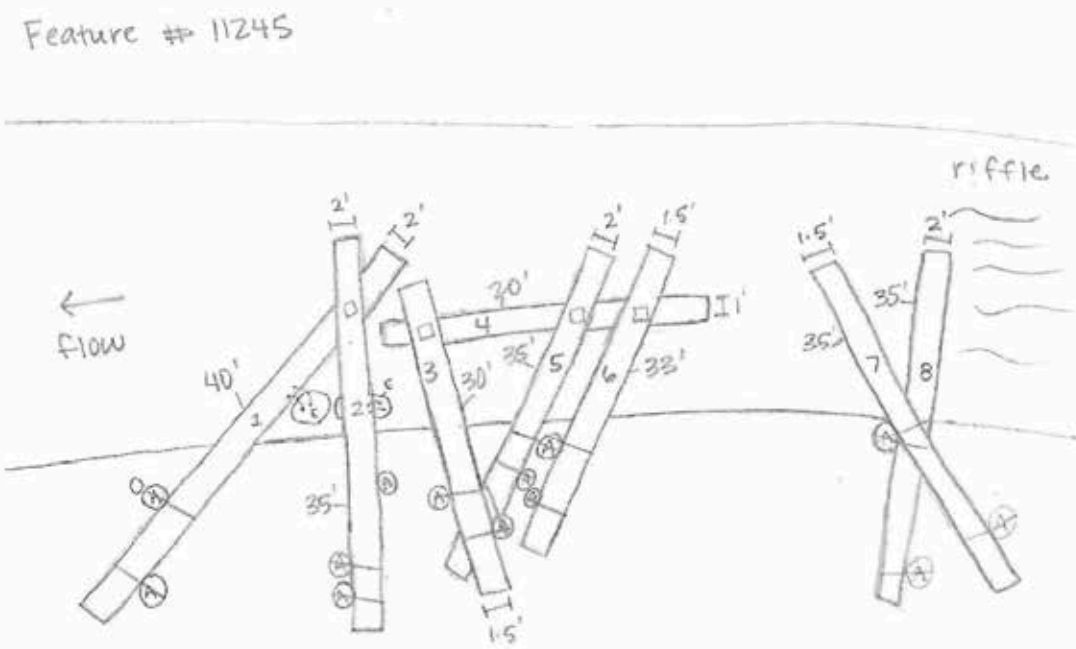
Existing Conditions: Pool/run-riffle **Bankfull Width:** 40 feet **Max residual depth:** 3.1 feet

Dominant substrate: Gravel, small cobble **Dominant cover type:** Undercut banks, 5%

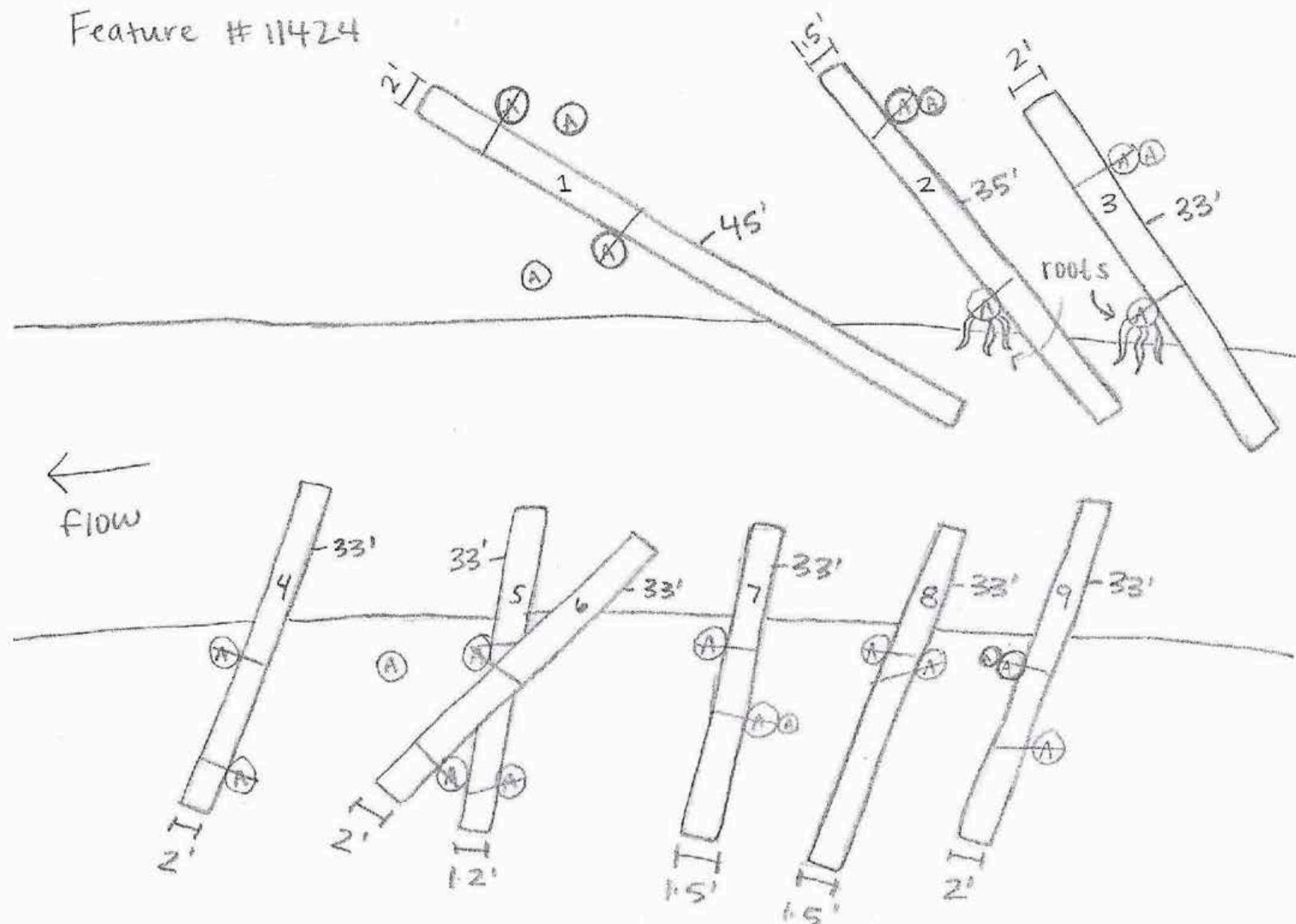
Project: Log 2 is on top of and anchored to log 1. Log 4 is a cover log and is underneath and anchored to logs 3, 5, and 6. Log 3 is on top of log 5. Log 7 is on top of log 8. Logs for this feature will be purchased.

Length Treated: 50 feet **Length Disturbed:** 20 feet **Square Footage:** 265 ft²

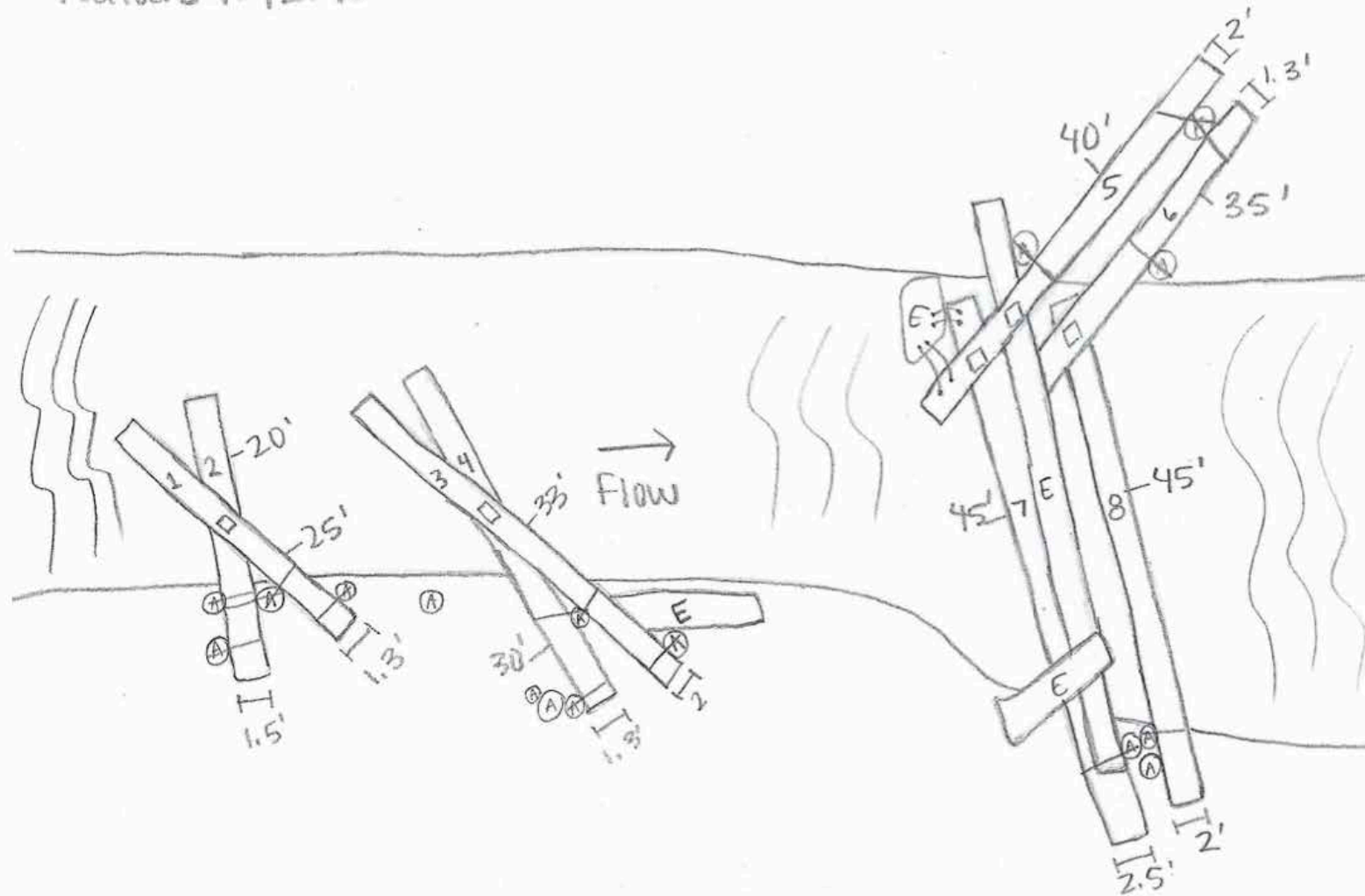
Objective: Increase cover, scour, and velocity refugia.



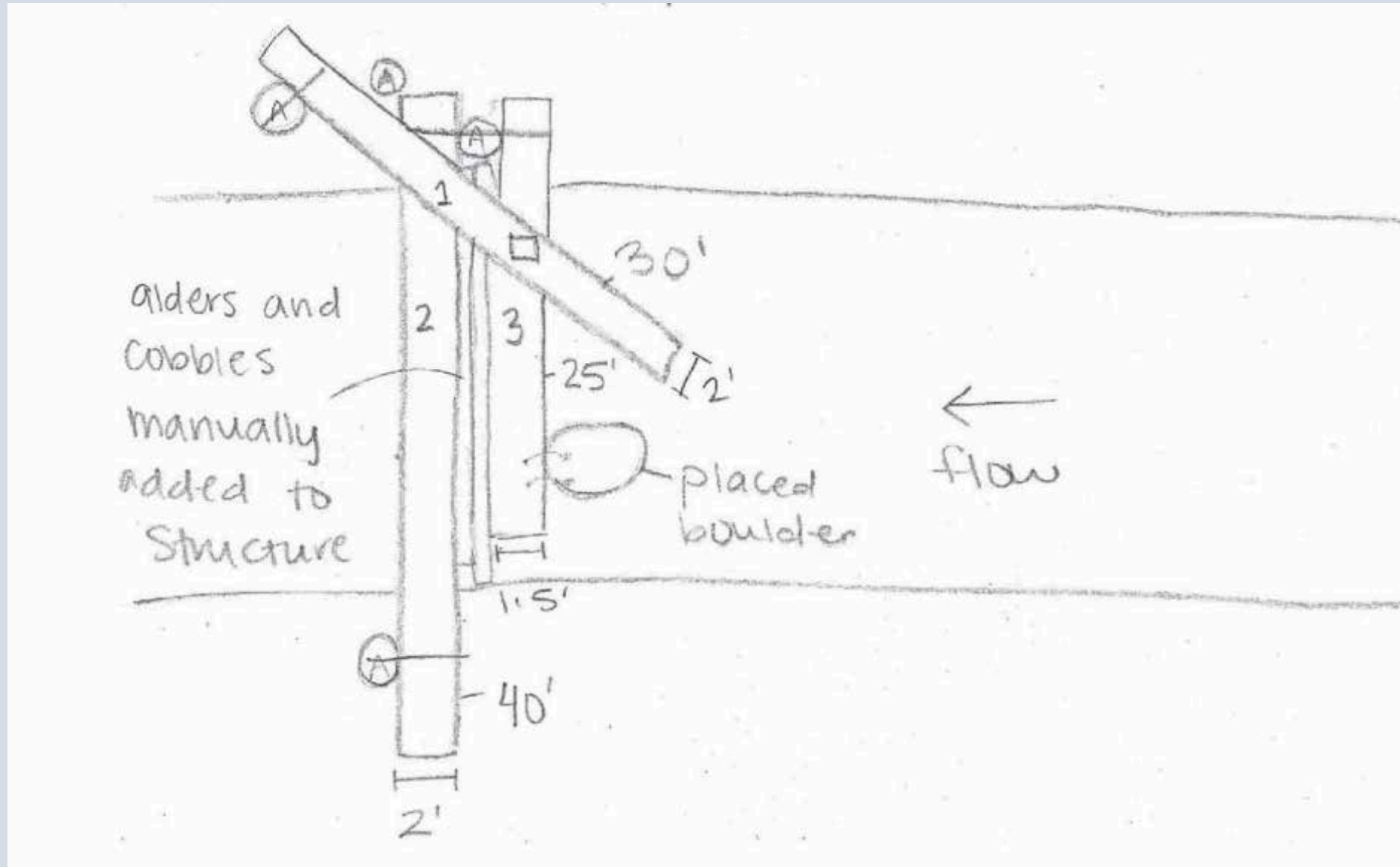
Scour/Cover/Velocity Refugia



TEATIME 4:12-4:30



Geomorphic Change & Aggradation





11/04/2021 11:04



11/05/2021 09:42



11/05/2021 09:25



11/04/2021 11:37

ERWIG Project Budgeting

\$300 - \$500 per log for equipment work,
depending on difficulty

\$100 per log anchor for CCC workers

\$\$\$ for CCC log gripping

Equipment and CCC costs really depend on the
experience of the work crews, especially when it
comes to green CCC crews vs seasoned crews

From the Ridgetops

