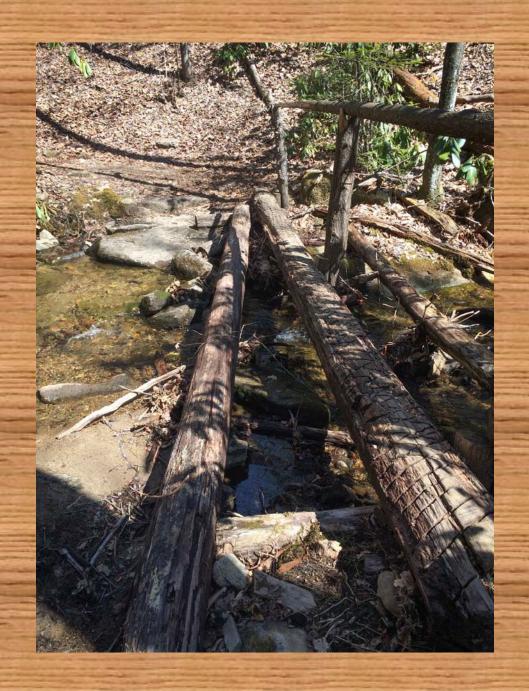
Wilderness Bridge Construction

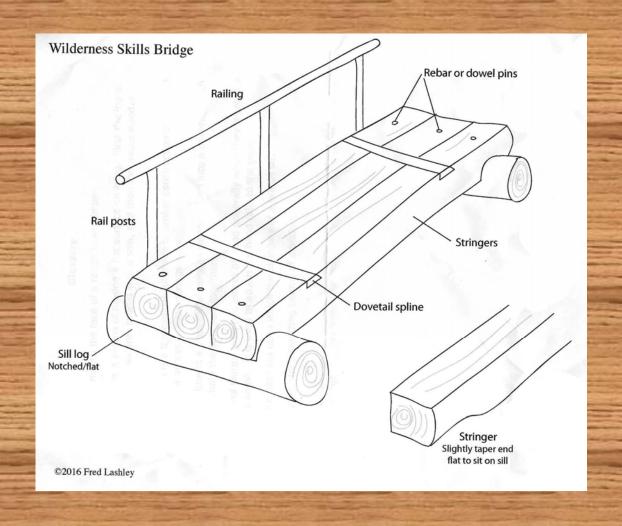
Wilderness Skills Institute
Cradle of Forestry NC
Pilot Rock Trail

Fred Lashley, Instructor
May 2016

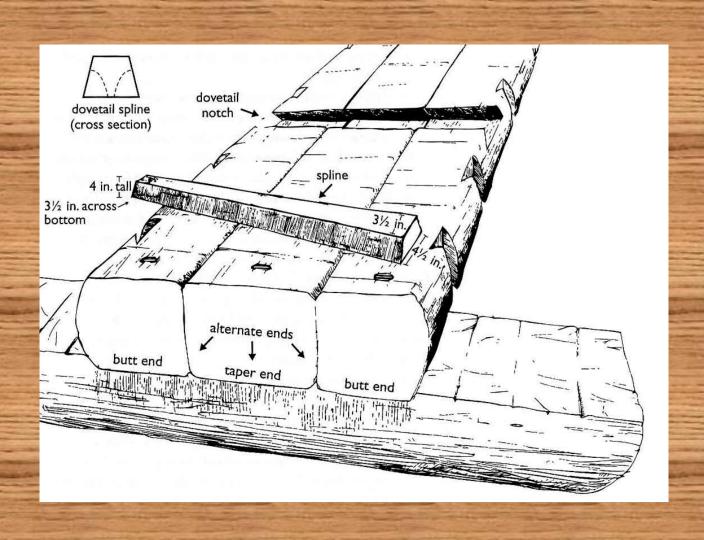
Objective:
Replace old
bridge, while
allowing for
mountain
bikes.



The work plan



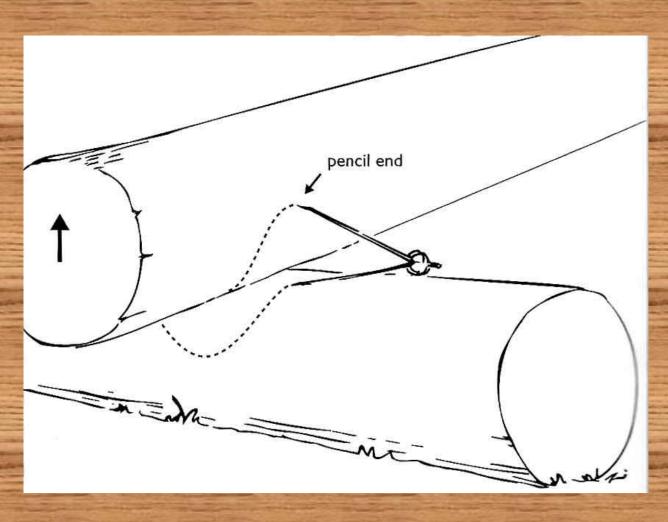
Bridge detail



Two sills in place, level line indicates downstream side of stringers



Copy contour shape of the sill onto the stringer



Cutting out the sill to hold the stringer



The bark is removed from the black locust trunk



The trunk end is marked with a level line and location notations



Chalking a level straight line







Cutting the notches



Kerf cuts every several inches facilitate wood removal



Canting the log



Eight people carrying the stringer



Two stringers, leveled on temporary sills



Adding the third stringer



Removing a high spot



The downstream stringer is marked for post dovetail



The dovetail is cut out and cleared



The post end is prepared to fit the dovetail on the downstream stringer



First mating of post in dovetail



Final adjustments are made



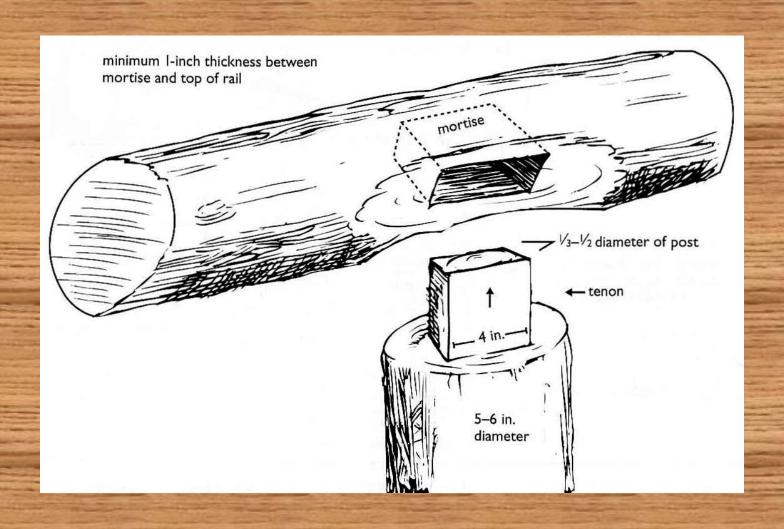
Setting a post on the bridge



A post pounded into final position



Mortise and Tenon



Mortise and tenon joints connect the handrail to the posts





The bridge building crew



The bridge



Credits

- Drawings from Lightly on the Land The SCA Trail Building and Maintenance Manual 2nd Edition
- Photography: Jay Dement, Kristy Robinson and Fred Lashley
- PowerPoint: Jay Dement
- Bridge Builders: Kristy Robinson, Lauren D'Amato, Jay Dement, Josh Fernandez, Michael "Mickey" Saleido, Debbie Thomas, Wayne Steinmetz, and Tom Weaver
- Instructor: Fred Lashley