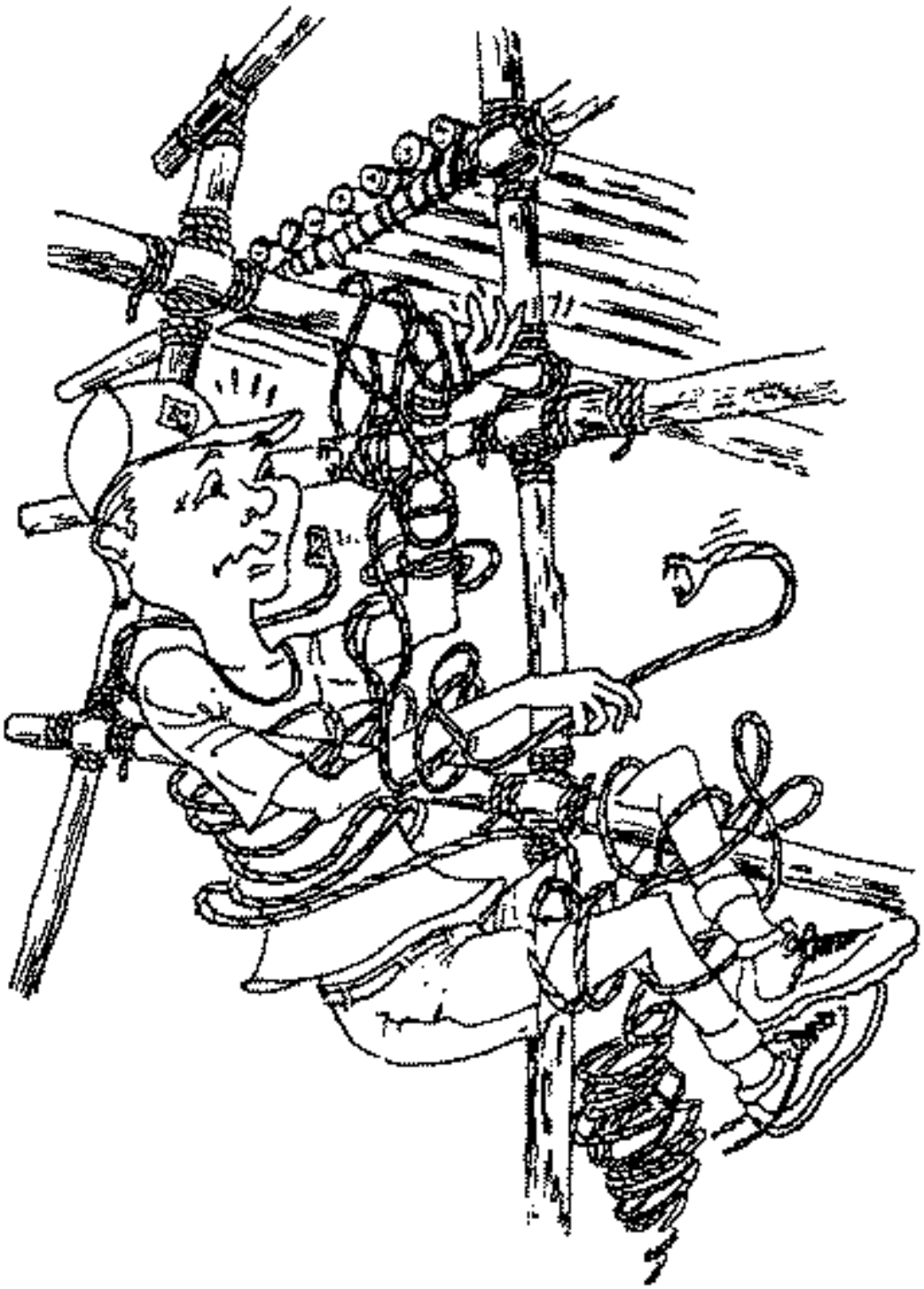
PIONEERING PROJECTS
BIG & SMALL



All images used in this booklet, including the one on the cover, have been obtained from the Internet, a majority being obtained from http://www.hurricanedistrict.org/pioneering.htm. This is a wonderful resource, and I encourage you to check it out. I also would like to express my gratitude to the Hurricane District for putting such a fantastic resource onto the Internet. Others did the hard work; I simply collected the fruits of their labors and put them into a central resource. I am indebted to all of them, for this is really their work and not mine.

I compiled these drawings into this booklet because it seems that there is less of an emphasis on pioneering now than there was before. The Pioneering Merit Badge Pamphlet, while it contains some information on projects, mostly concerns itself with the basics, and therefore does not provide much project information, in terms of plans. It's almost impossible to obtain a copy of Sweet's *Scout Pioneering* in the United States (though the Canadian Scout Association publishes the book – I got my copy from them), and the *Fieldbook* and *Handbook* are also lacking when it comes to Pioneering. The only real resource is the *Boy Scout Roundtable Guide*, which has some illustrations in them. But besides utilizing these few resources, those who are interested are left to fend for themselves, so it seems. Those who wish to do pioneering projects are often left to their own imaginations for designs, a problem for those who, like me, have small amounts of creativity that must be used judiciously.
The immediate reason for my compiling this work is that, when I was named Scoutcraft Director of the Bert Adams Scout Reservation in Covington, Ga., I was informed that there would be a pioneering competition, with prizes. Not wanting to have the troops only construct monkey bridges, I searched for other possible projects, which culminated in the creation of this booklet.

As far as I can ascertain, all of the images in this book are in the public domain. If this is not the case, please let me know and I will remove the copyrighted, non-public domain material from this collection. It is certainly not my intention to infringe upon anyone's copyright.

I hope you find this collection useful. I welcome any comments, criticisms, suggestions, and, most especially, new pioneering projects, for this is always a work in progress.

Yours in Scouting,
Andrew J. Miller
mcs@bigfoot.com

Note: This collection may not be used for commercial gain. You are free to copy and distribute it (indeed, I encourage you to do so), but no profit is to be made from the distribution of this collection. Think of it as your daily good turn.

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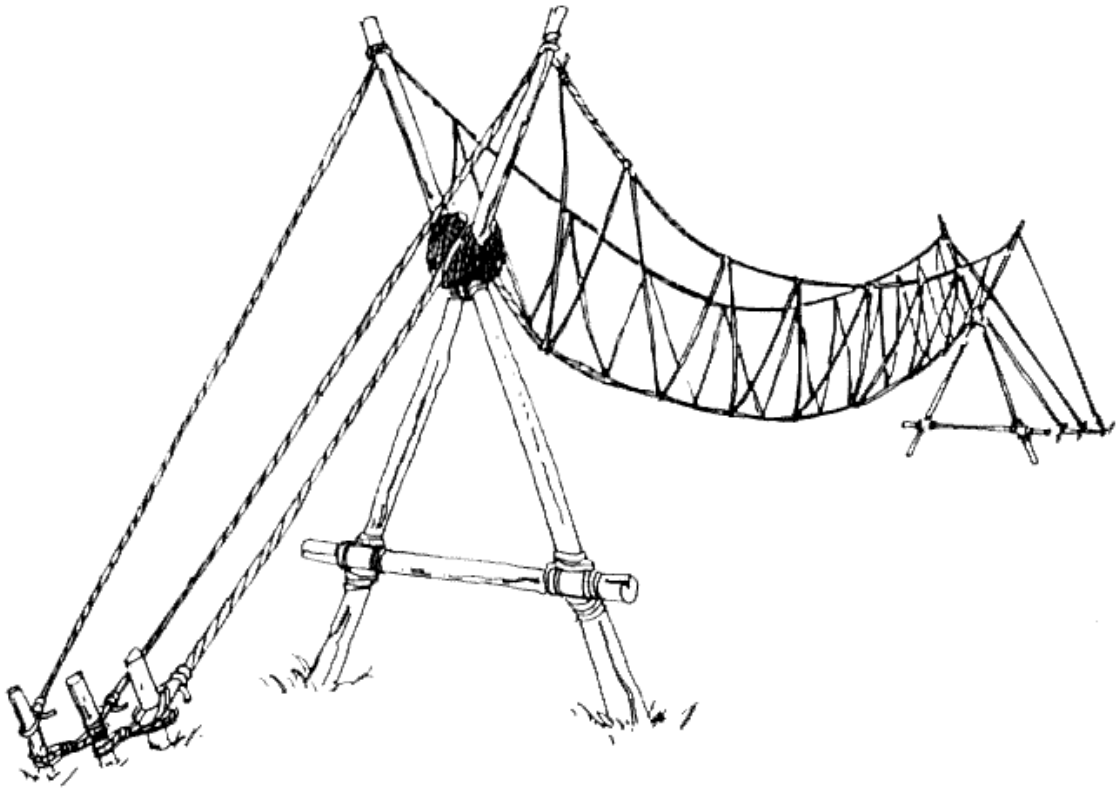
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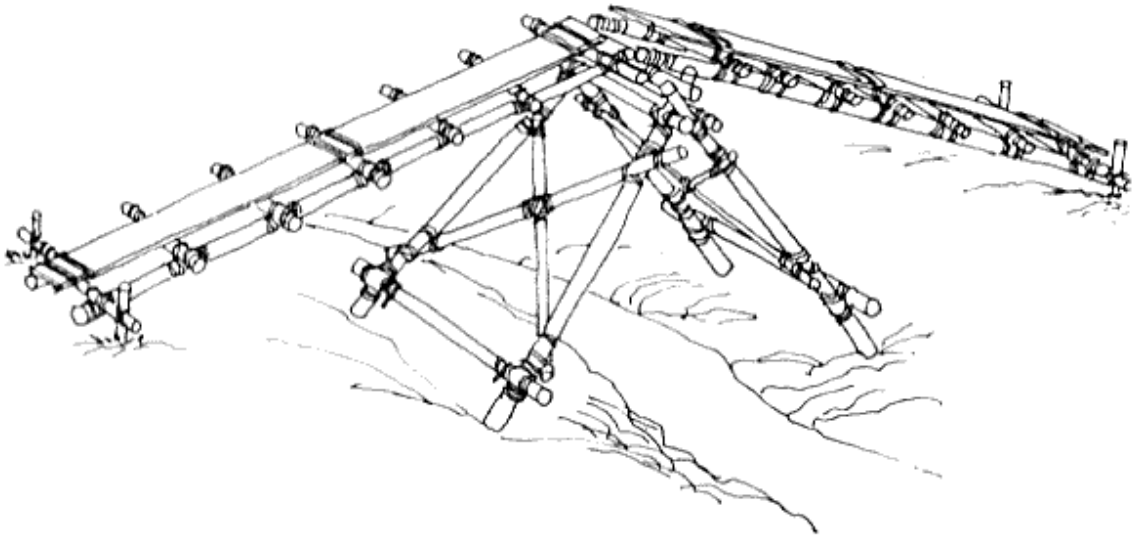
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Bridges

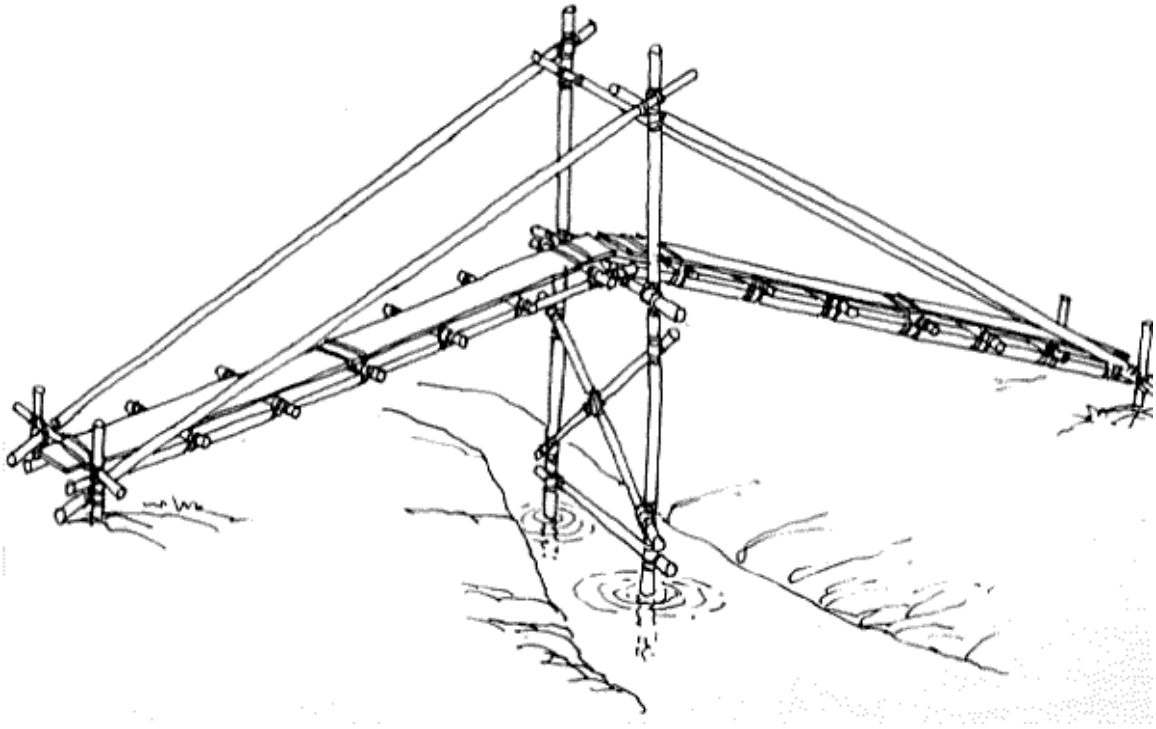
Monkey Bridge



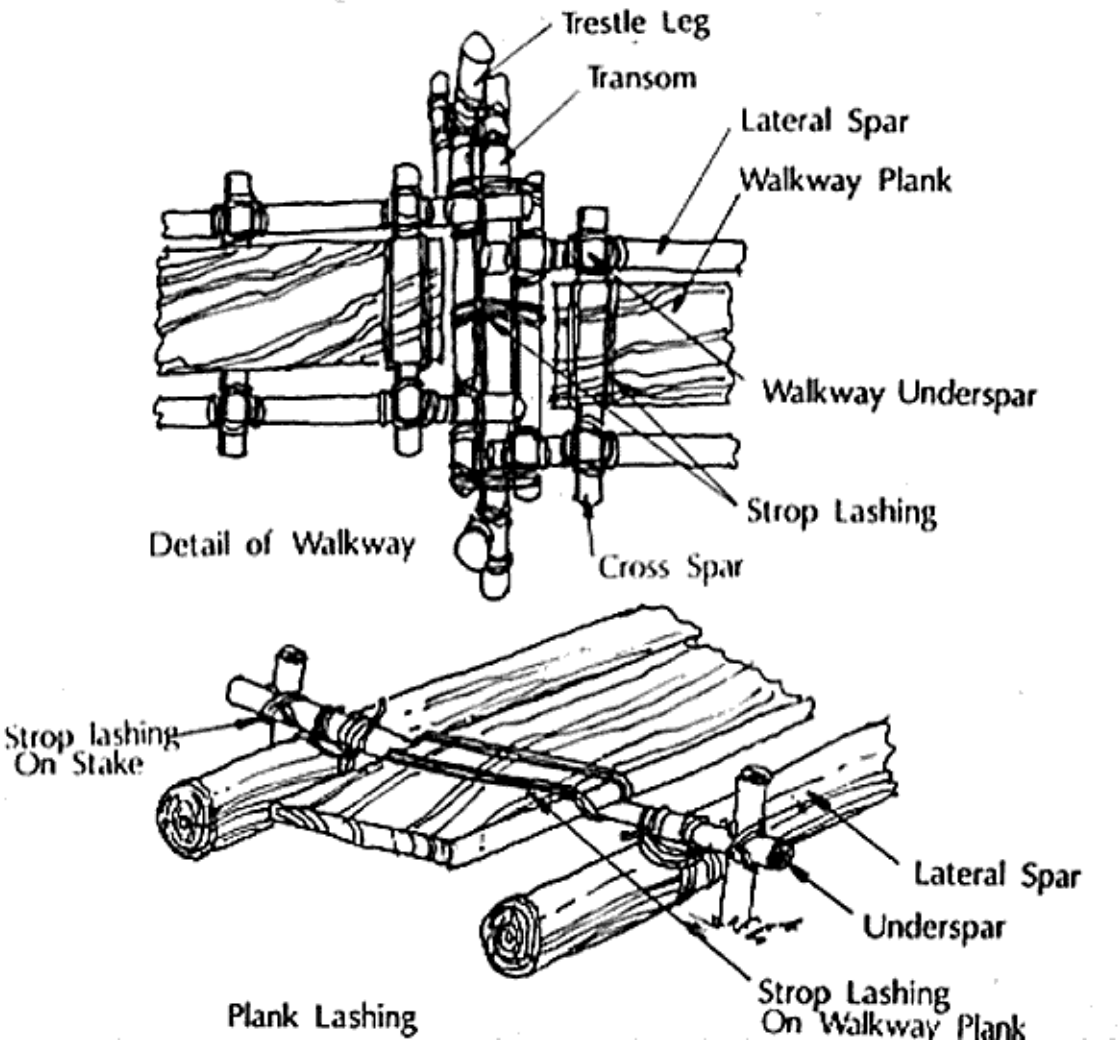
Single Lock Bridge

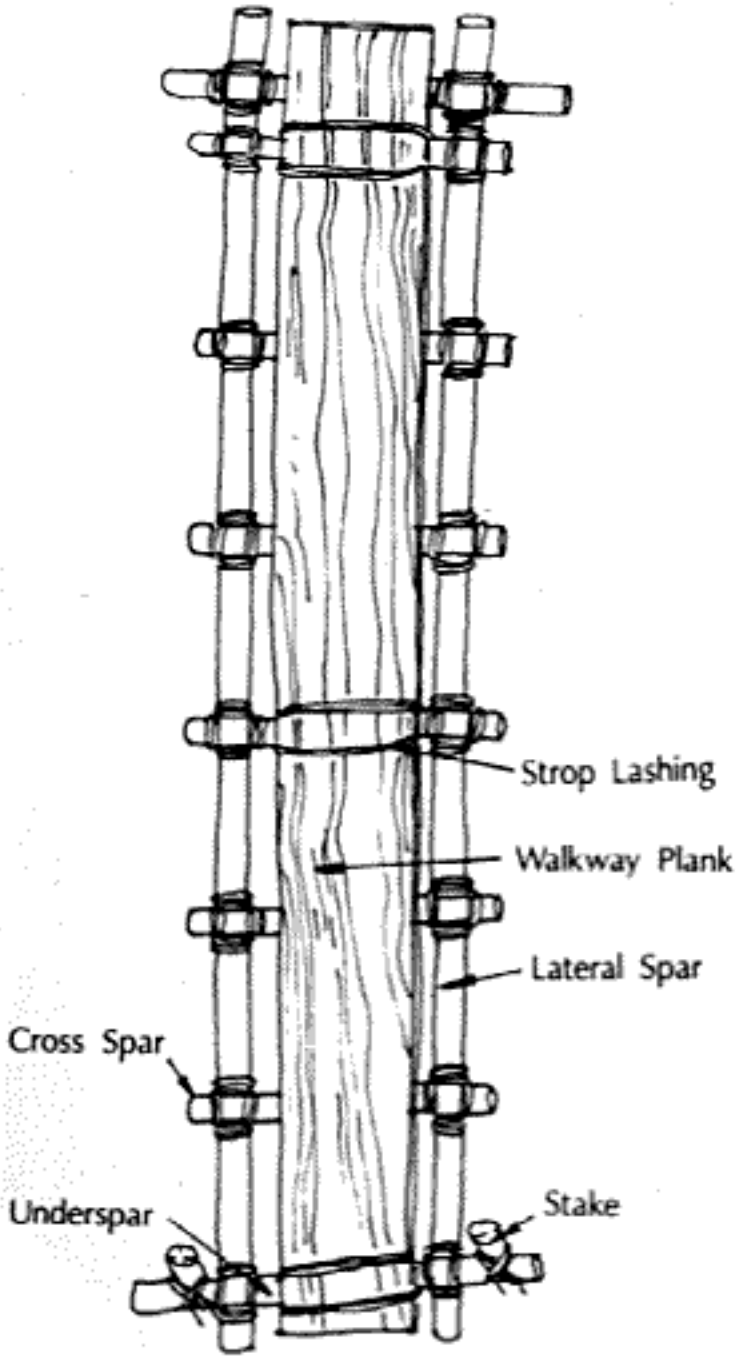


Single Trestle Bridge

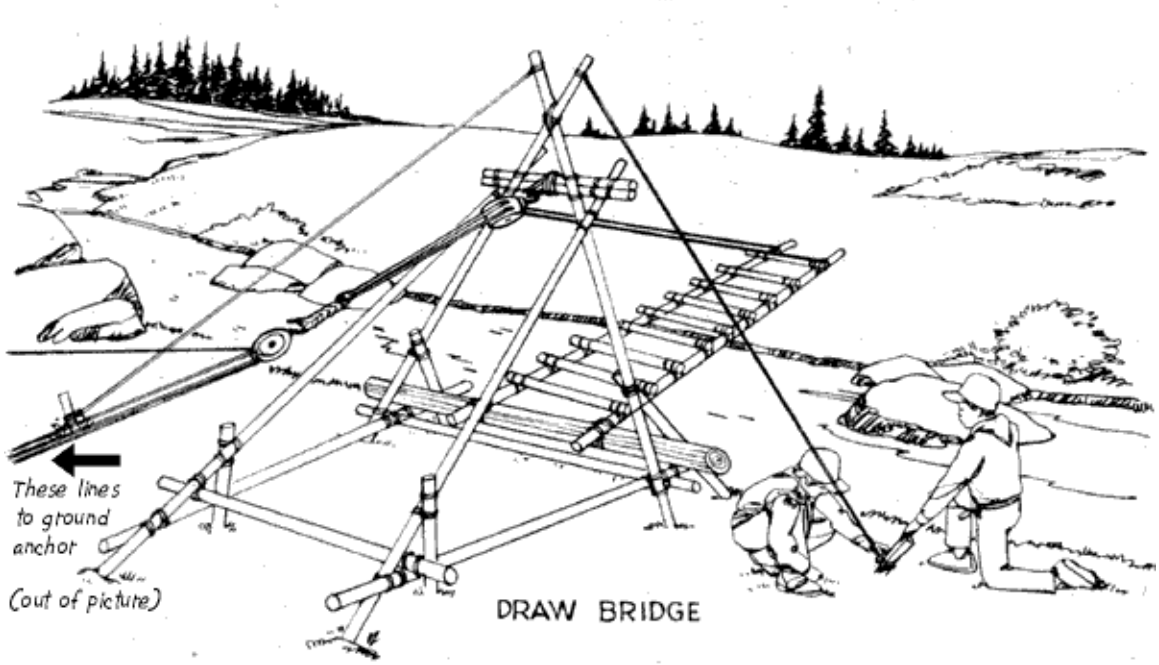


Detail for Single Trestle Bridge

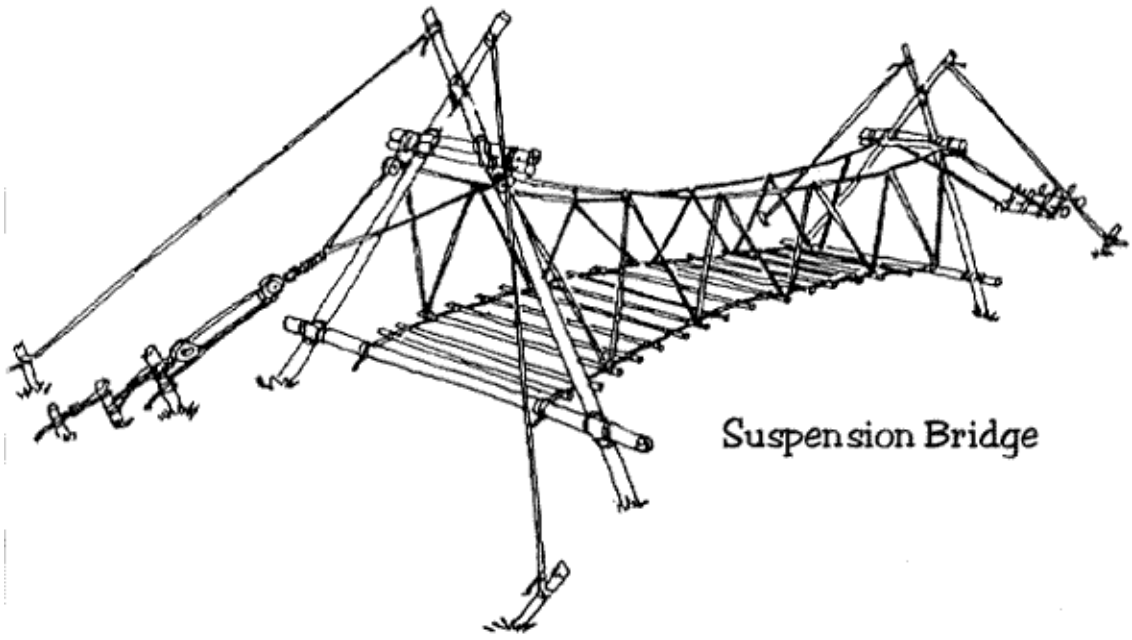



Strop Lashing
Walkway Plank
Lateral Spar
Cross Spar
Underspar
Stake

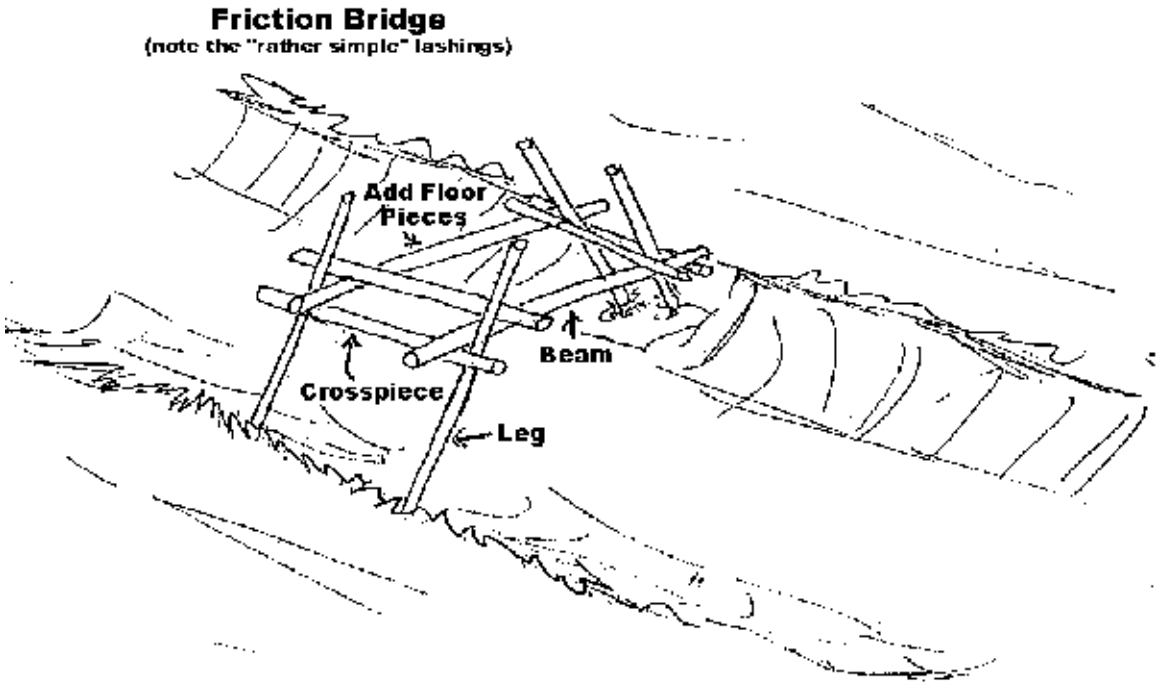
Draw Bridge



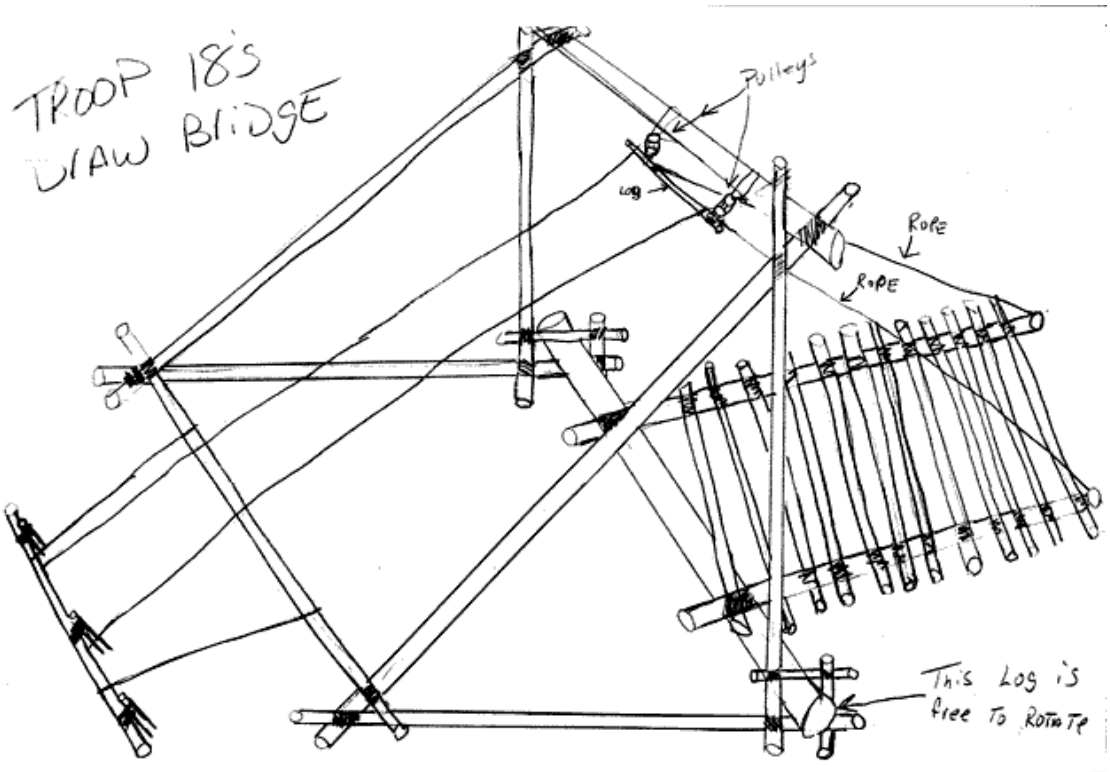
Suspension Bridge



Friction Bridge

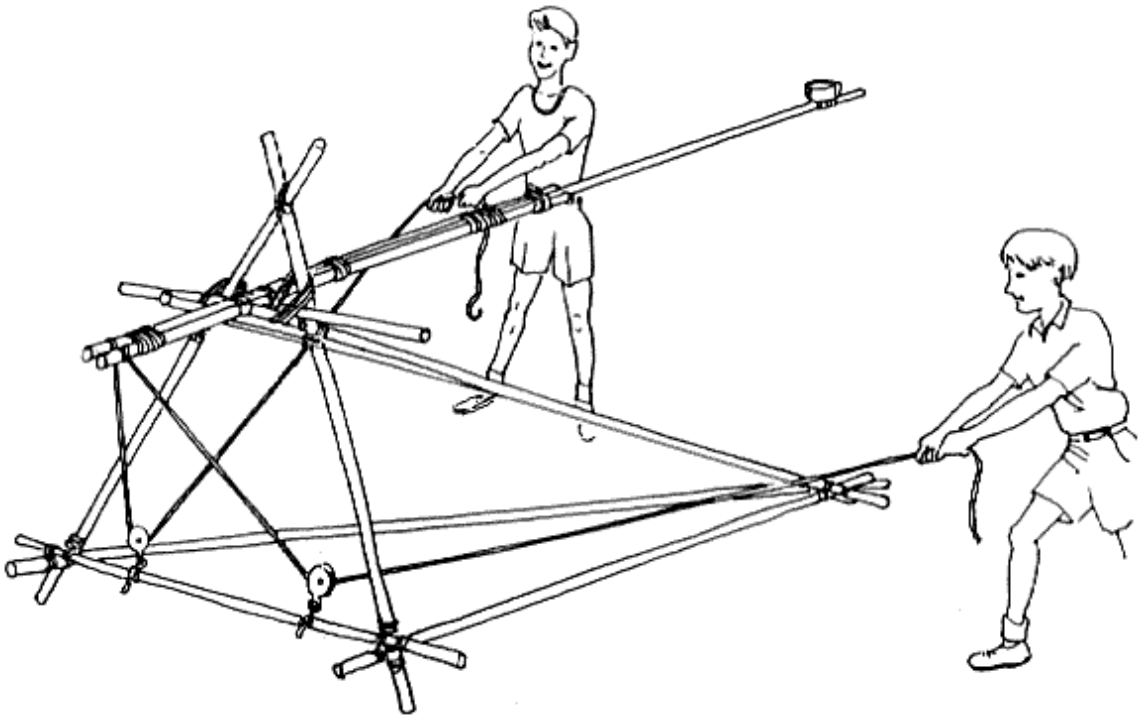


Troop 185 Draw Bridge

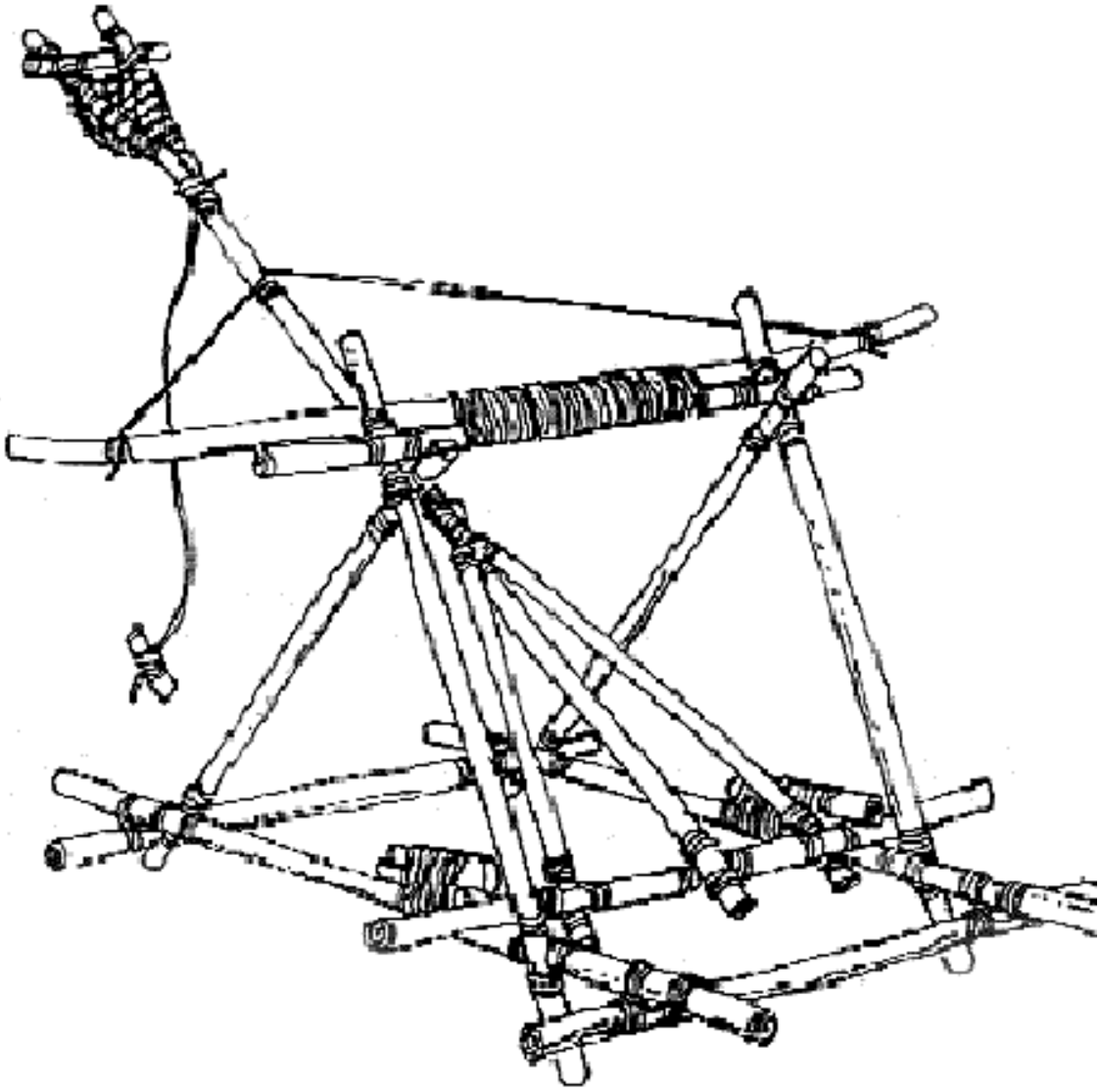


Catapults / Ballistas

Two Person Catapult

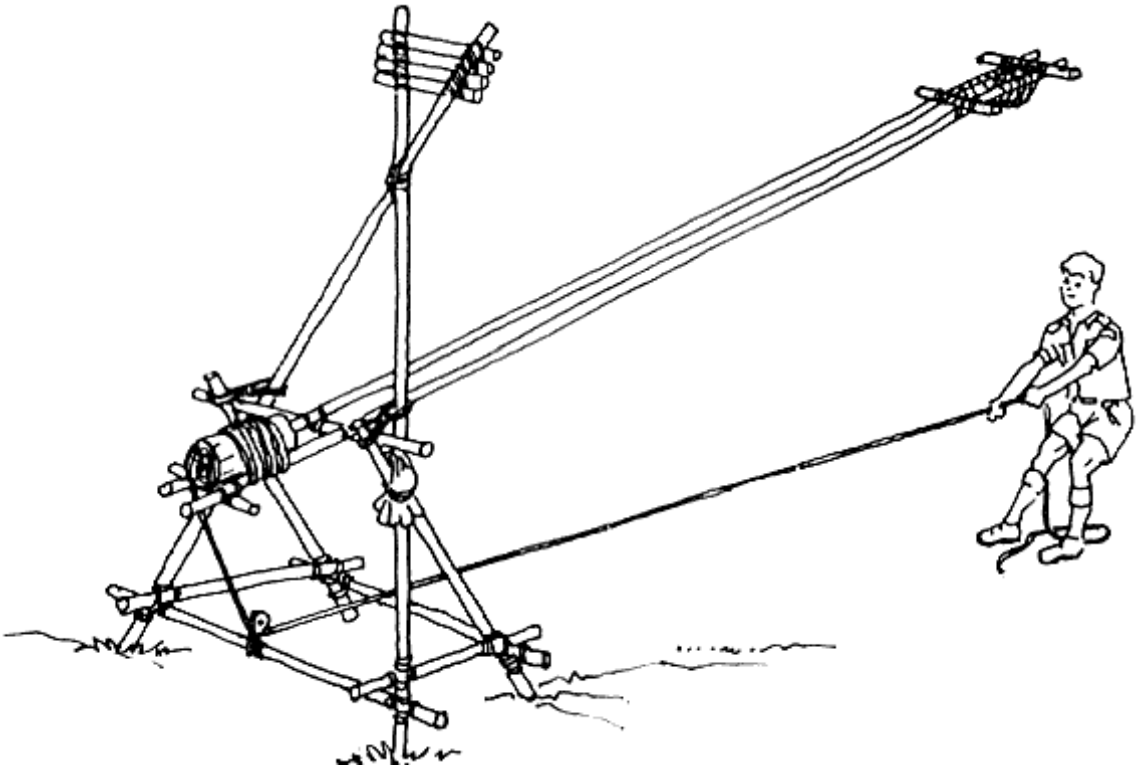


Troop 10 Catapult



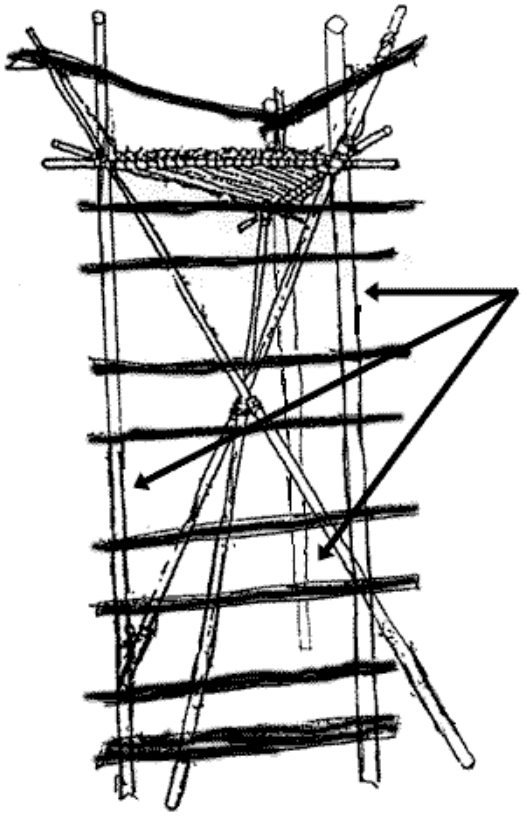
Troop 10 catapult

Ballista



Towers and Gateways

Pfox Tower

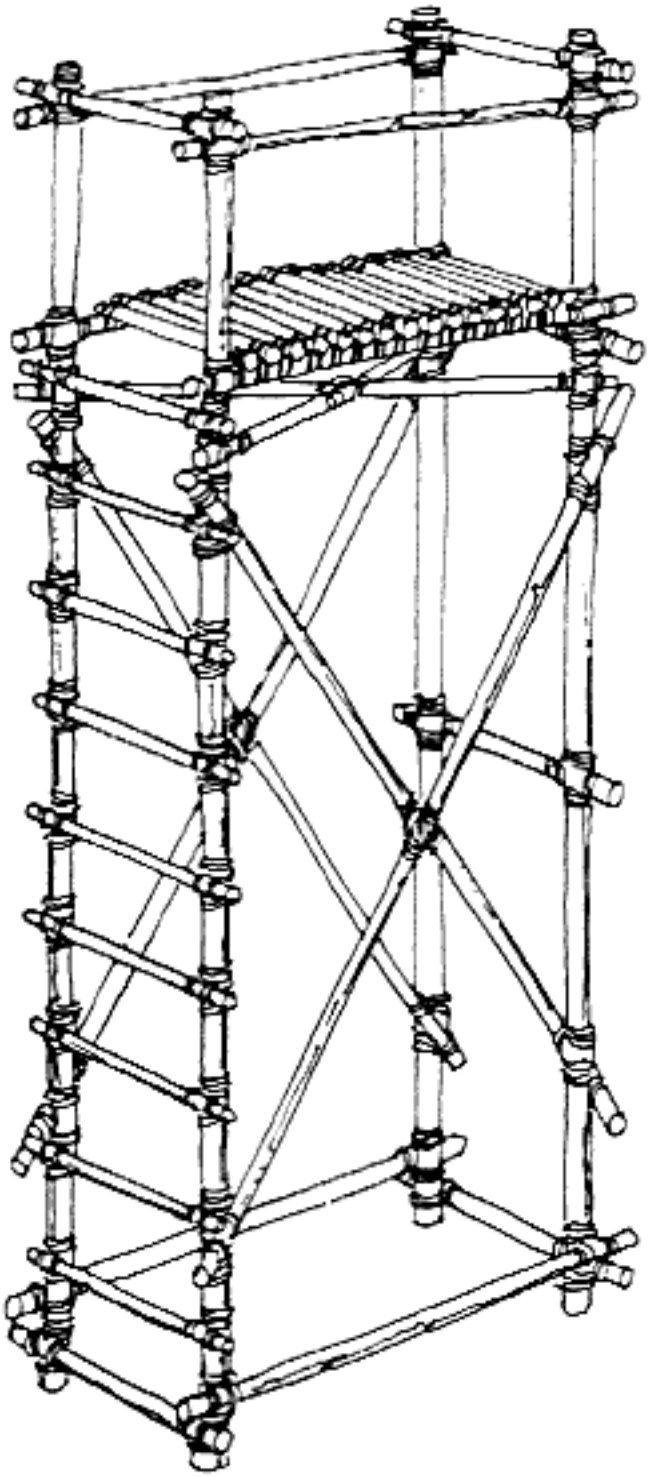


Wood Badge SC455

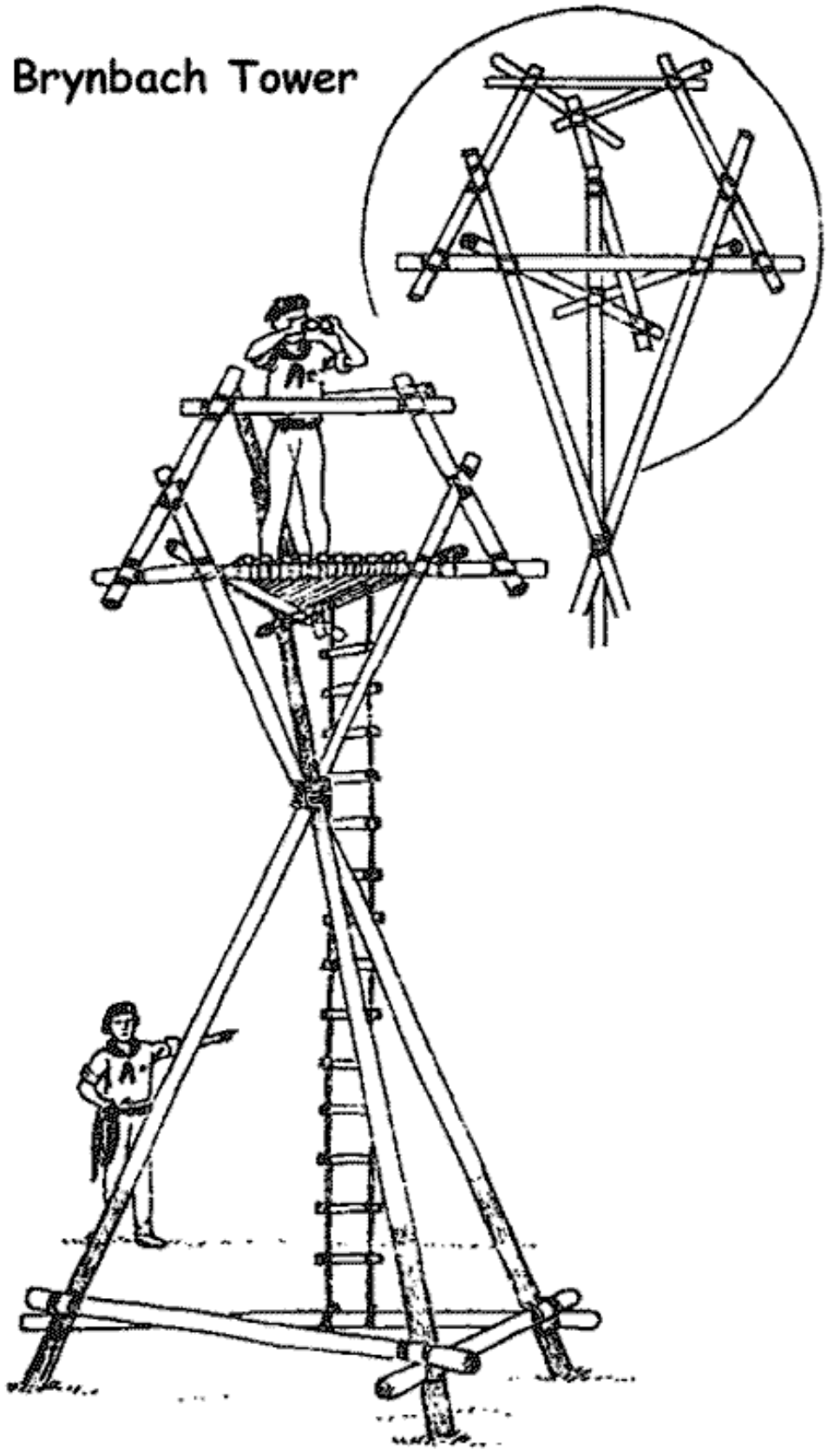
"Pfox Tower"

Includes 3 straight supports that hold the ladder and provide extra bracing. You may or may not need these. AS BUILT, this tower held 4 200lb. adults at one time!

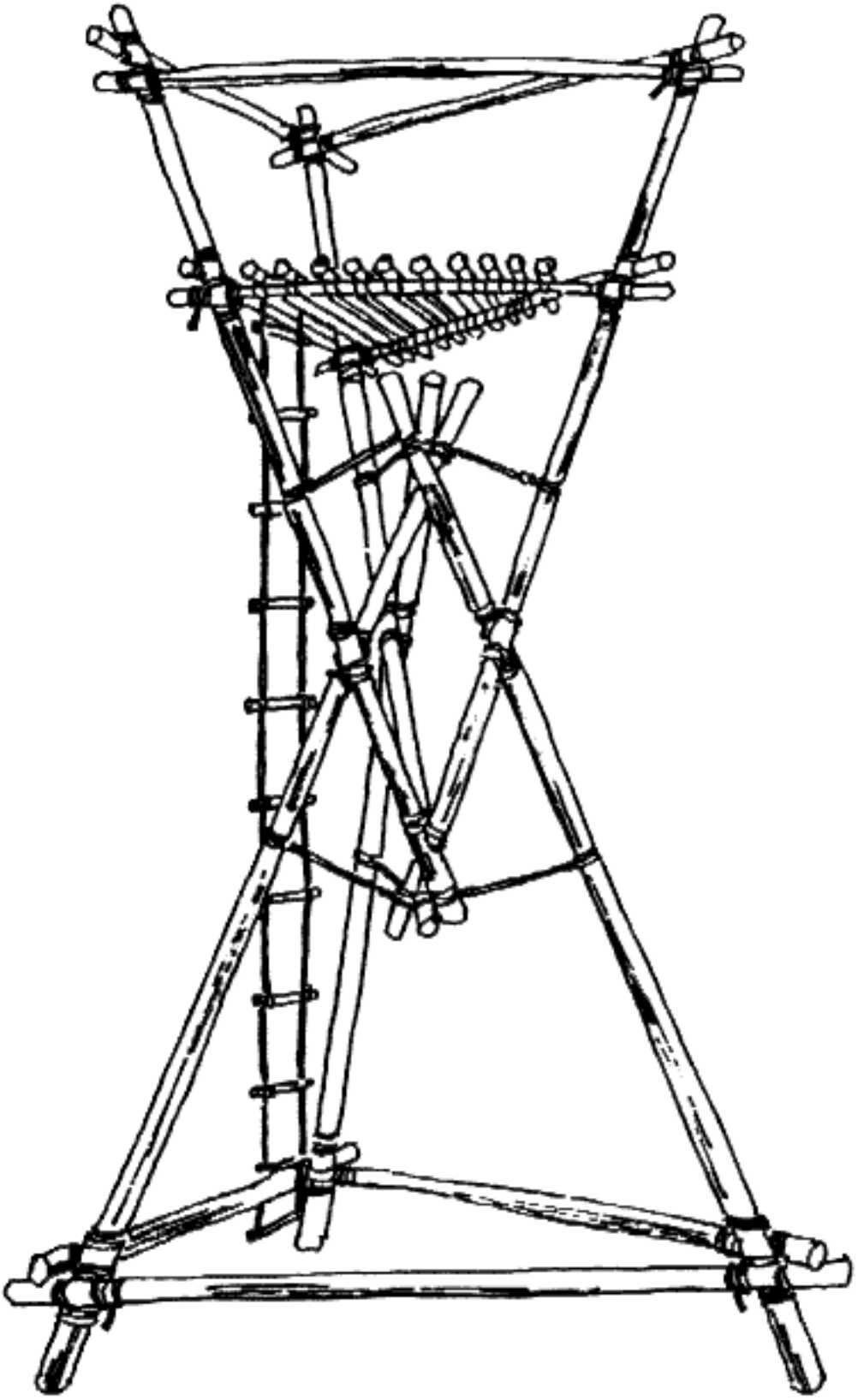
Signal Tower



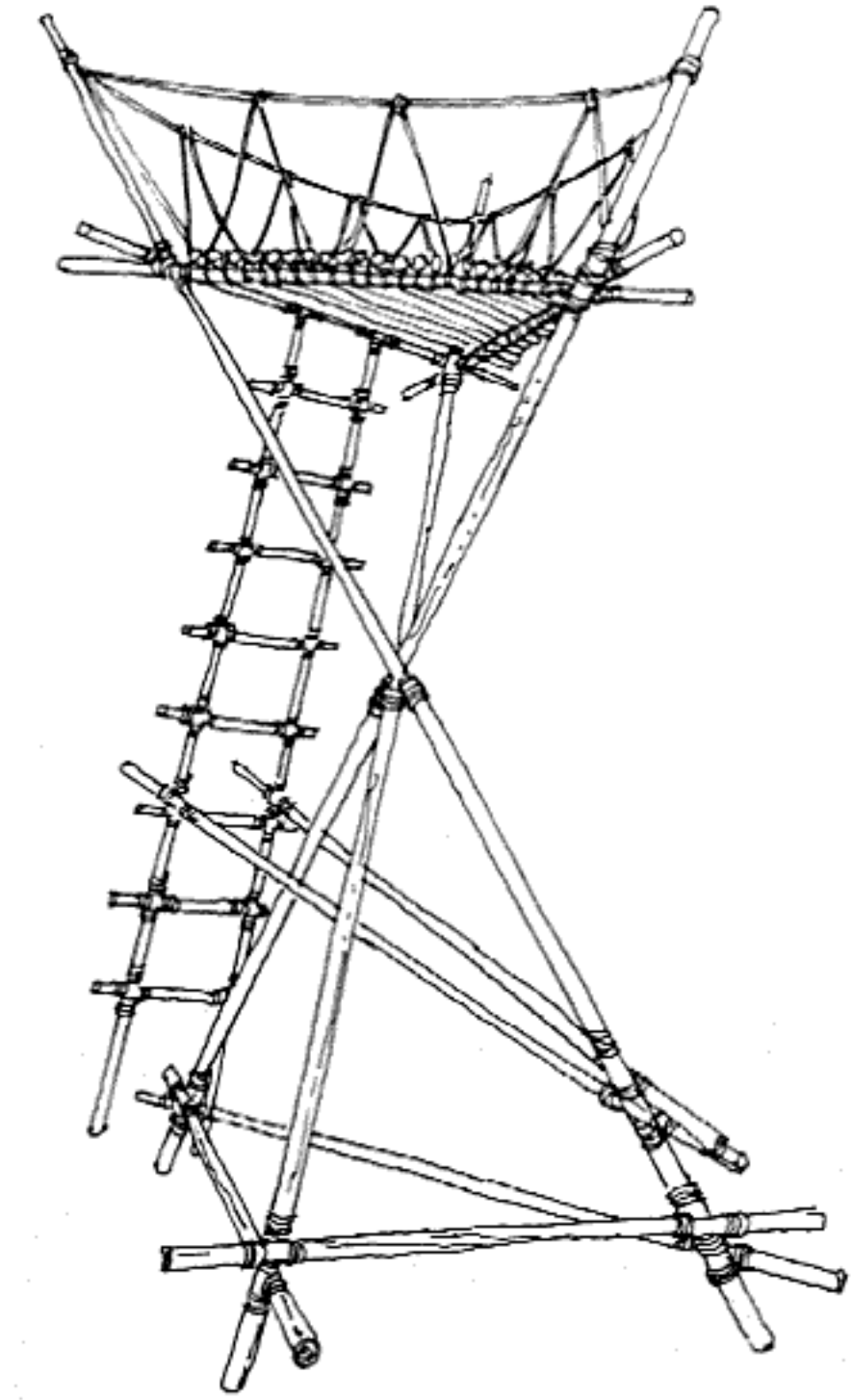
Brynbach Tower



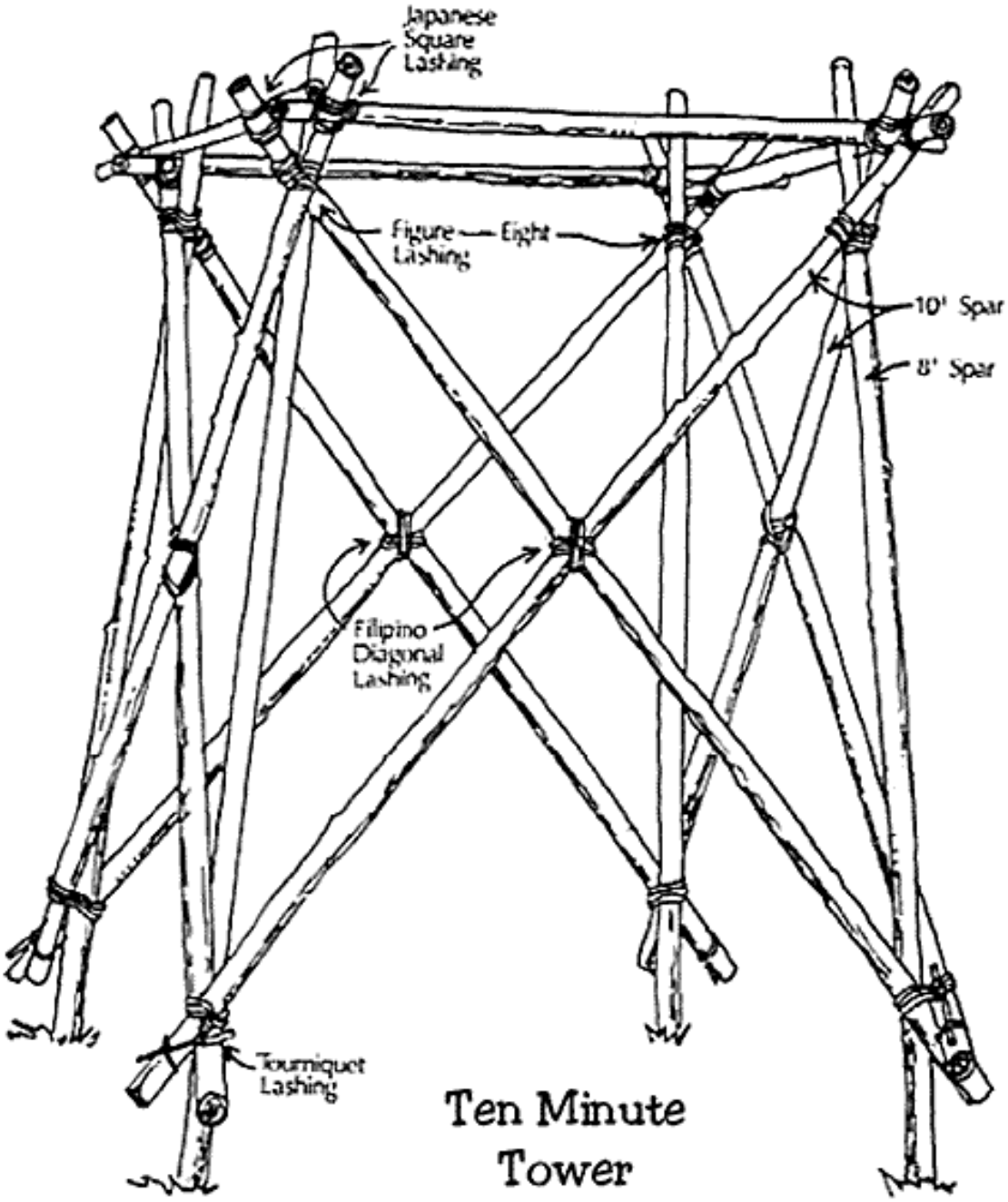
Hourglass Signal Tower



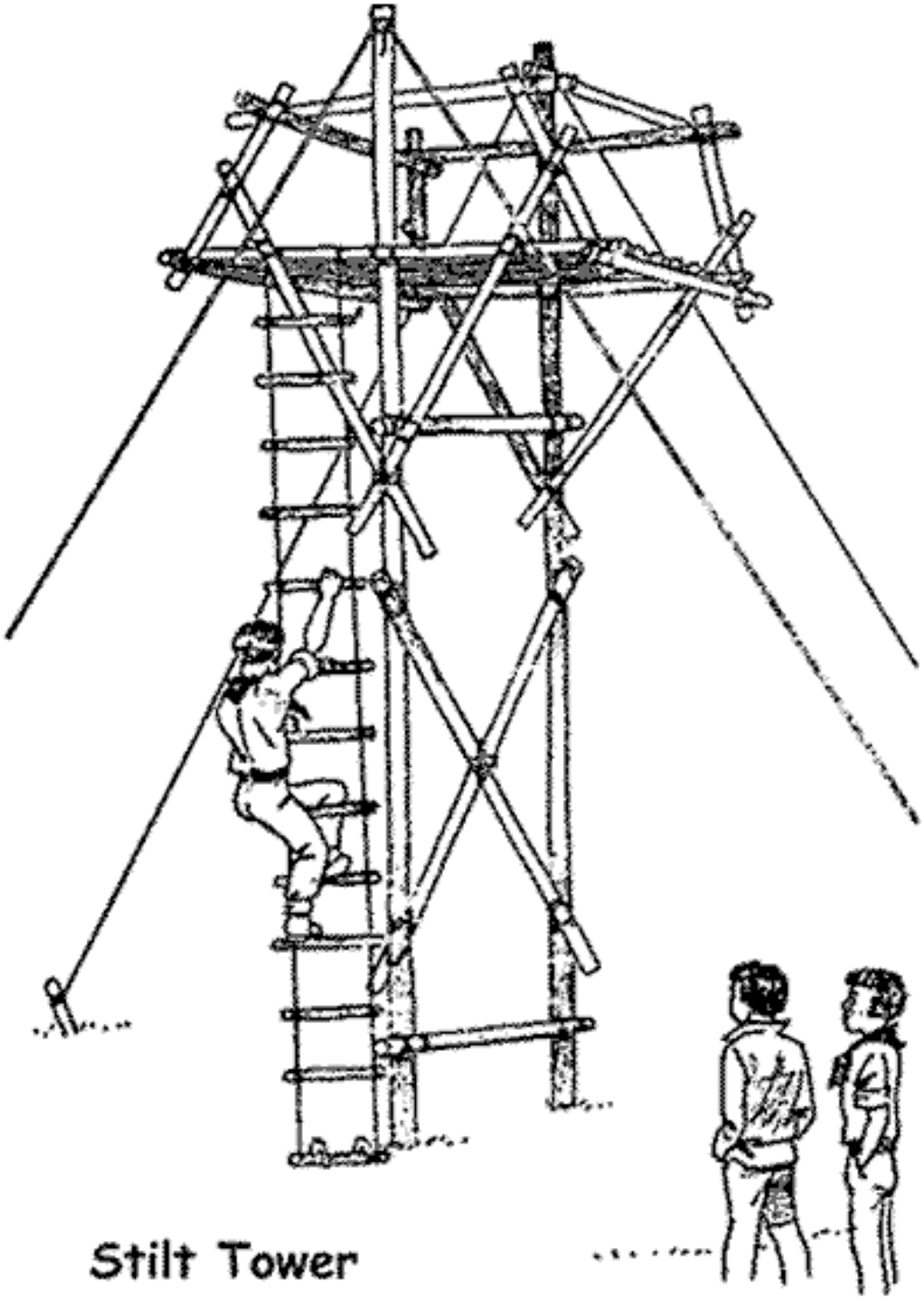
Triangular Signal Tower



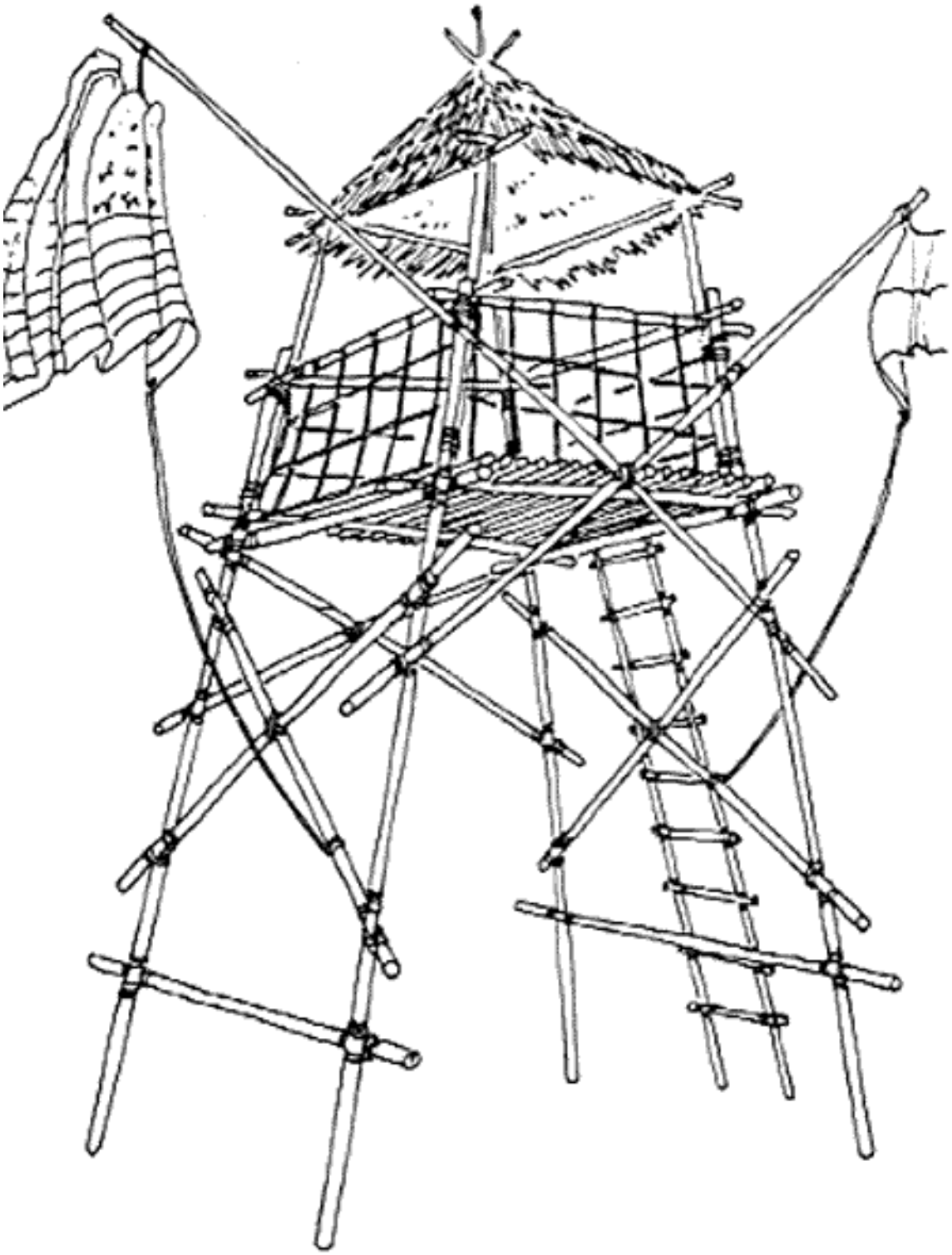
Ten Minute Tower



Stilt Tower



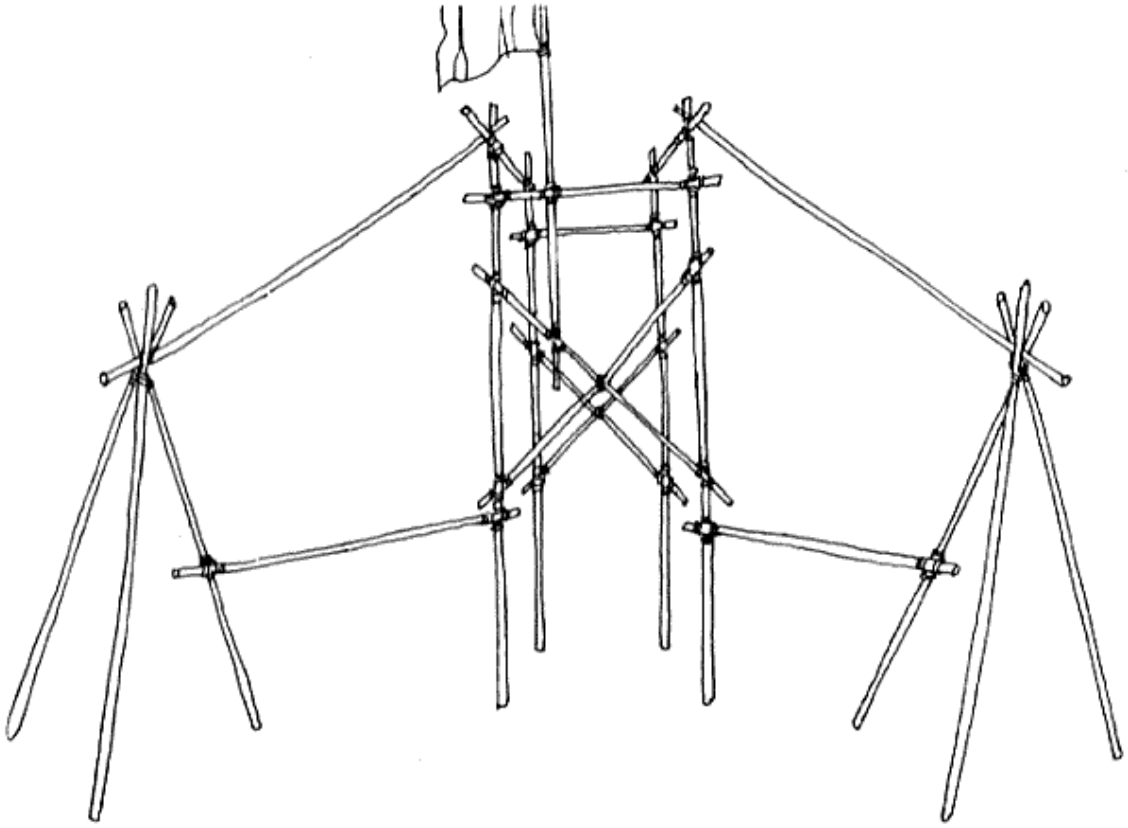
Troop 850 Gateway



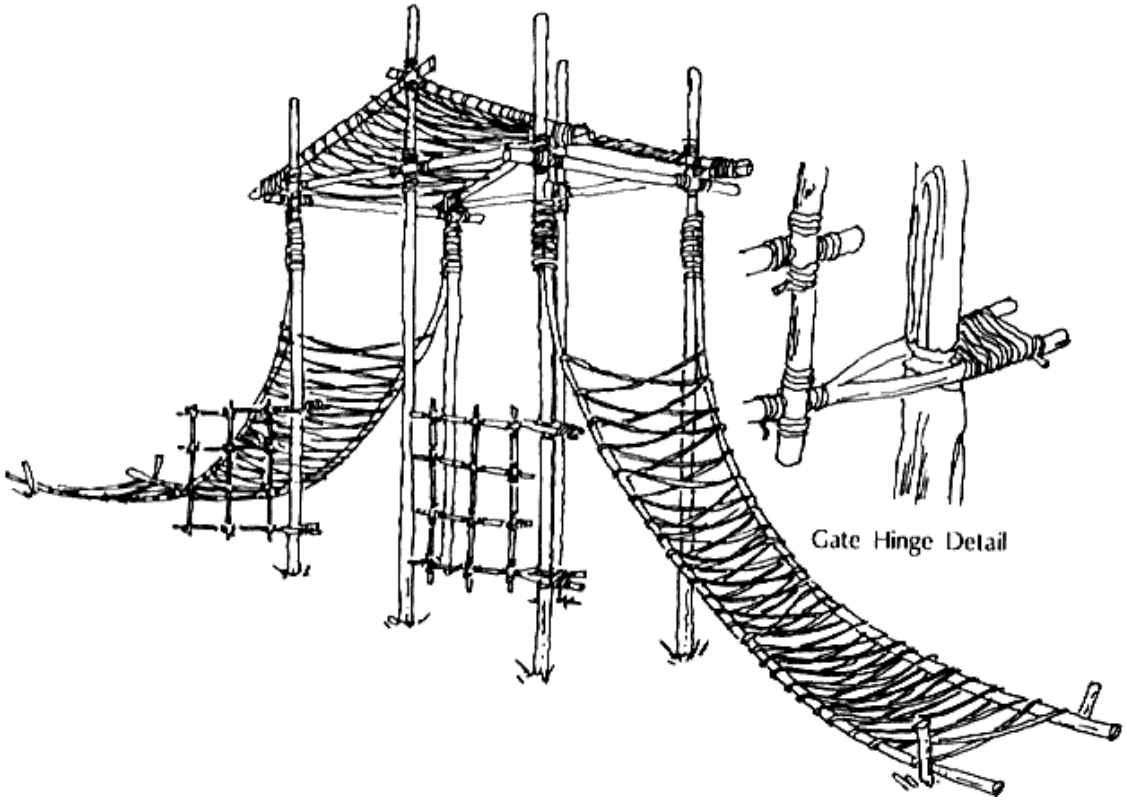
Covered Gateway



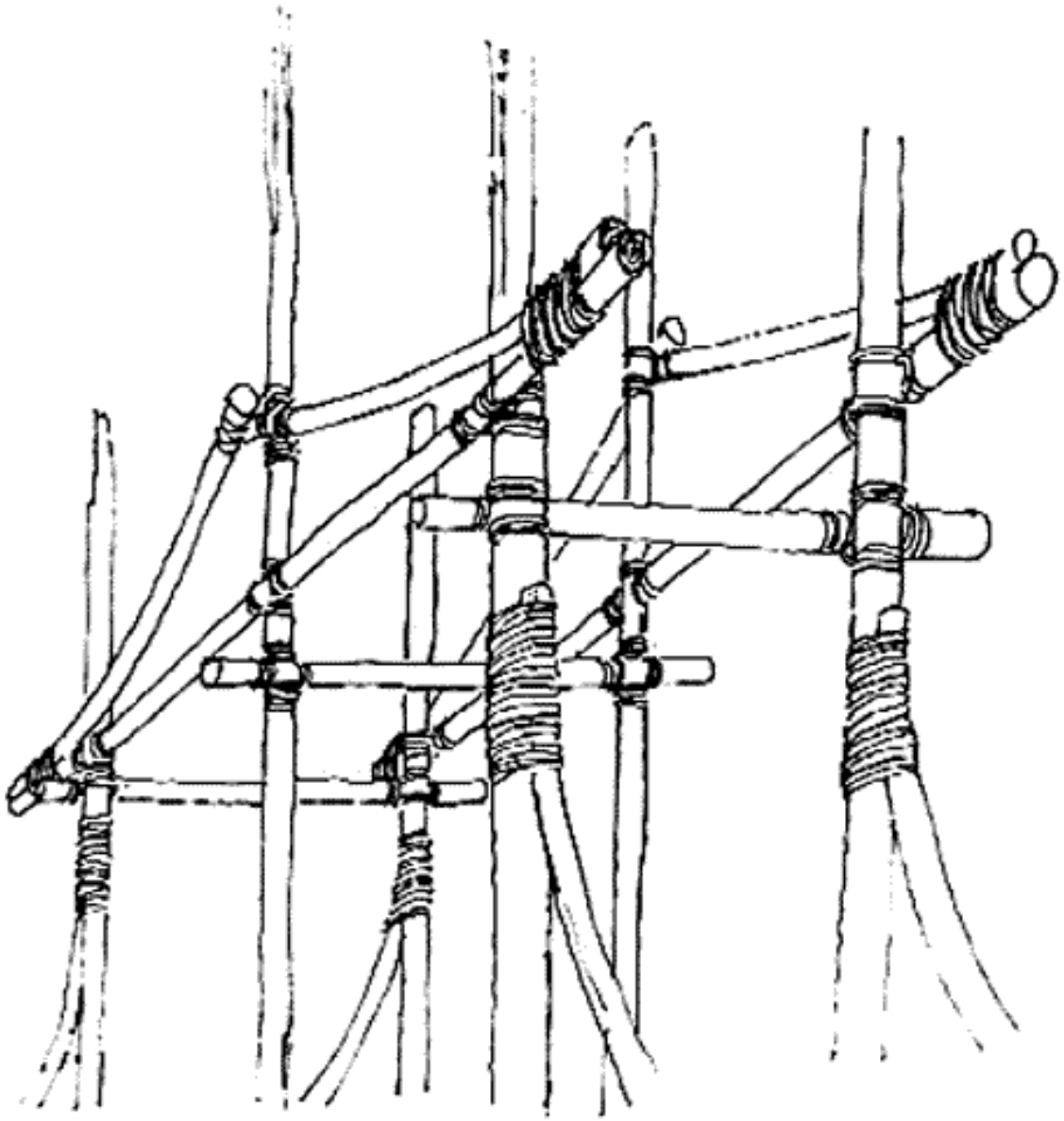
Simple Gateway



Troop 16 Gateway

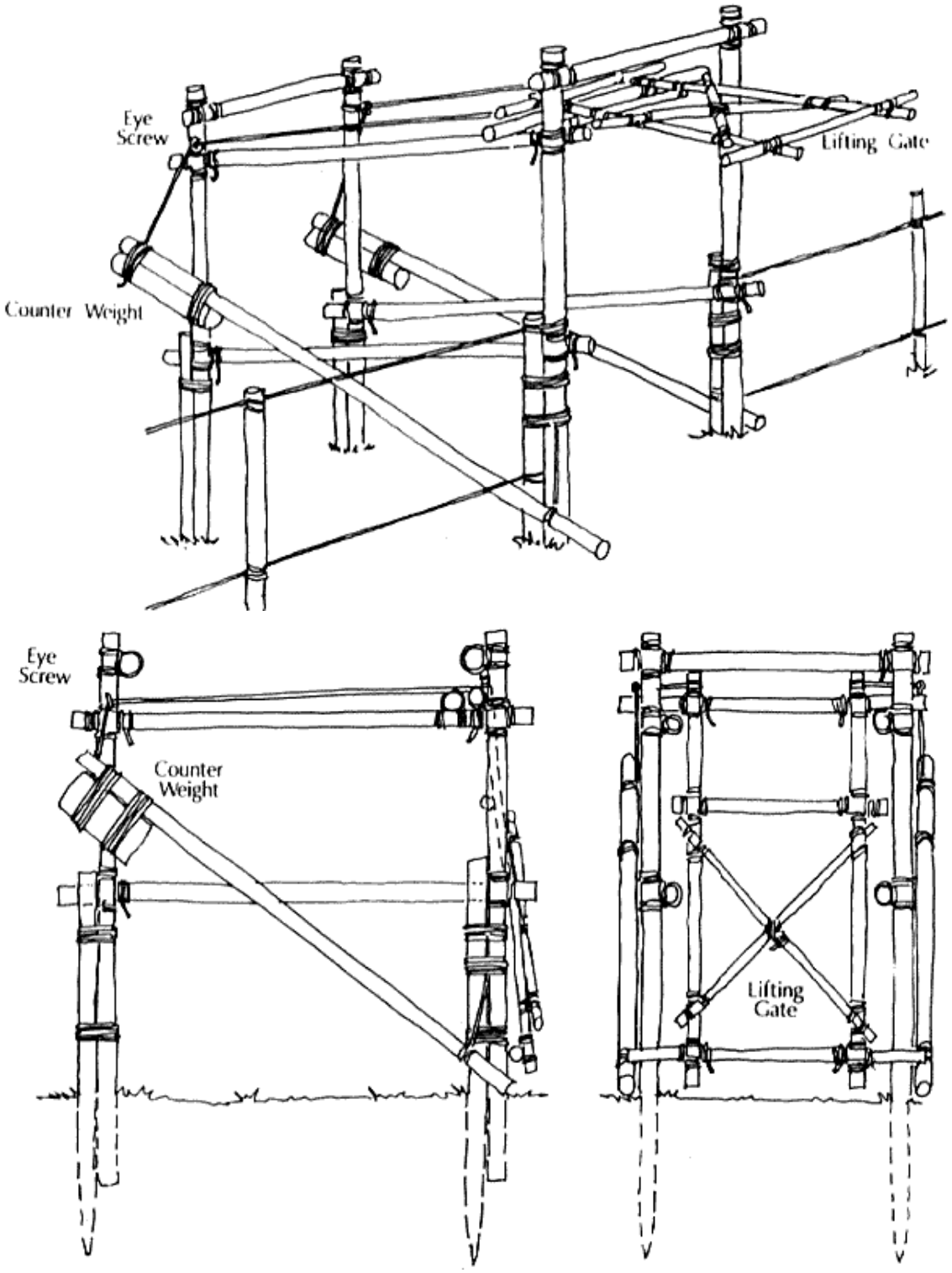


Troop 16 Gateway Roof Detail

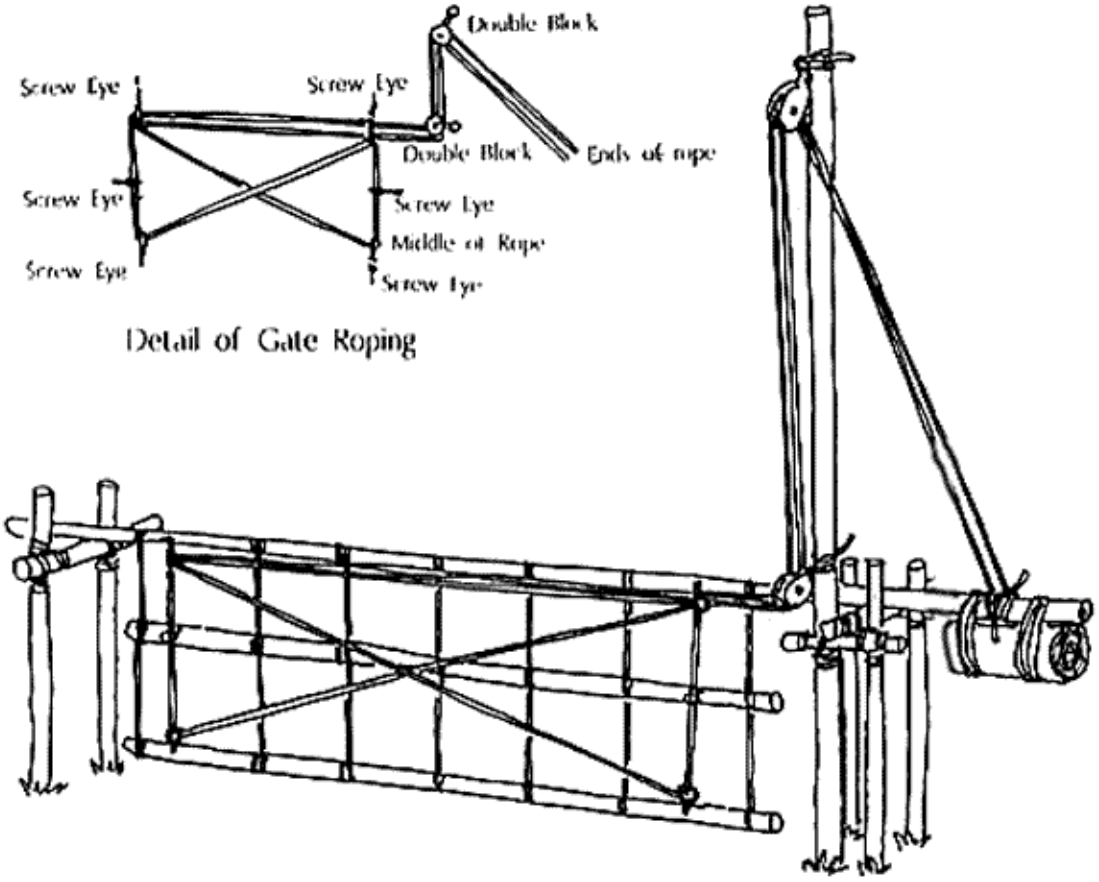


Gateway Roof Detail

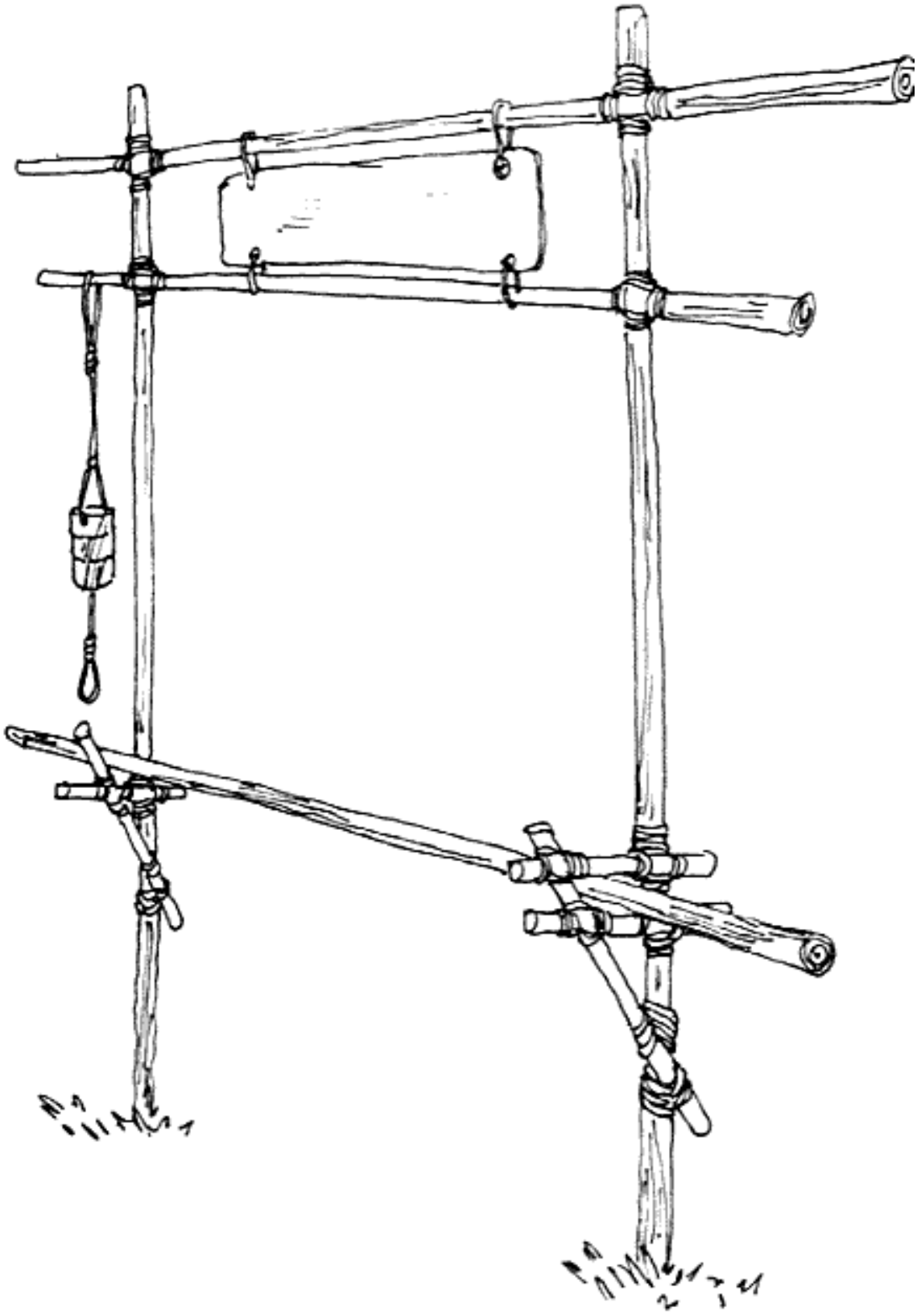
Lifting Gateway



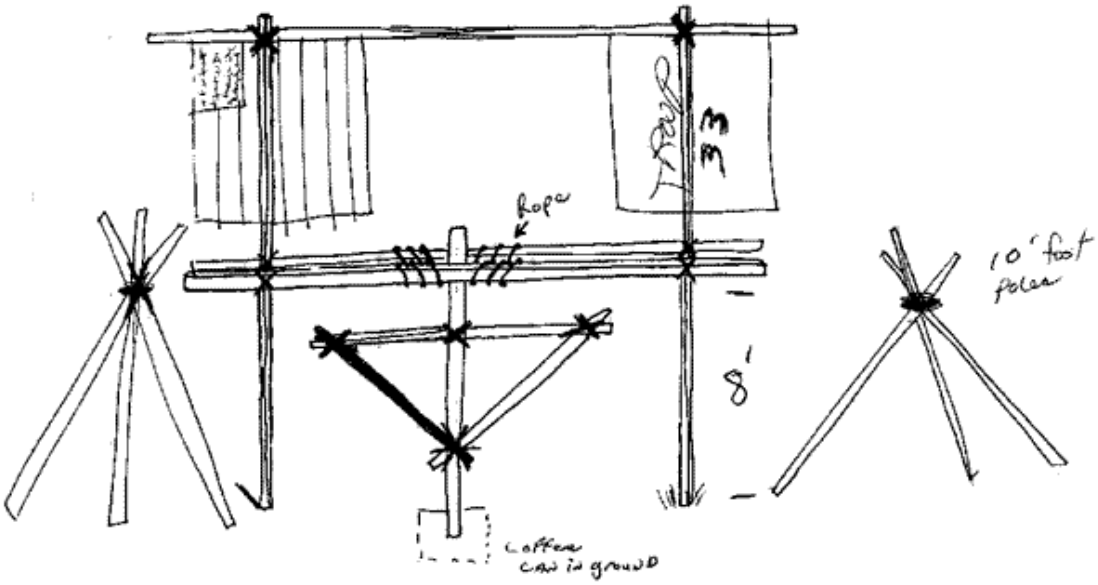
Swinging Gate



Gateway with Doorbell

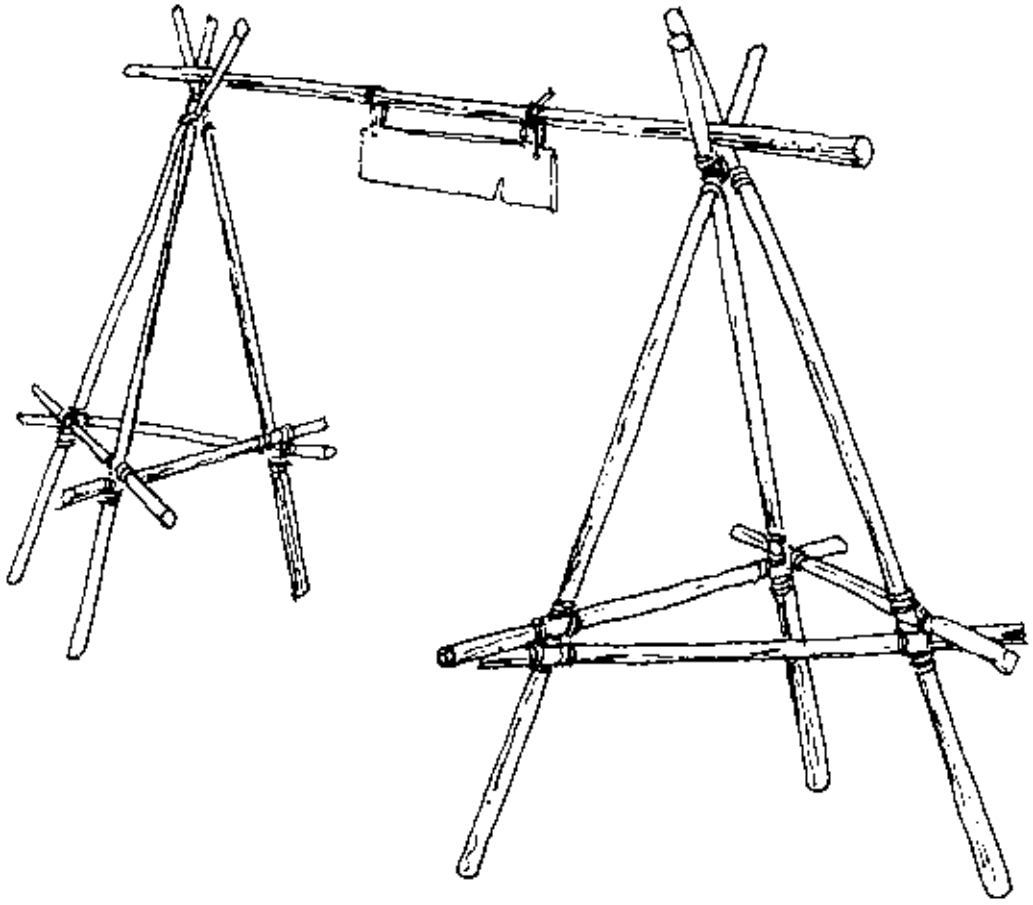


Rotating Gate / Turnstile Gate

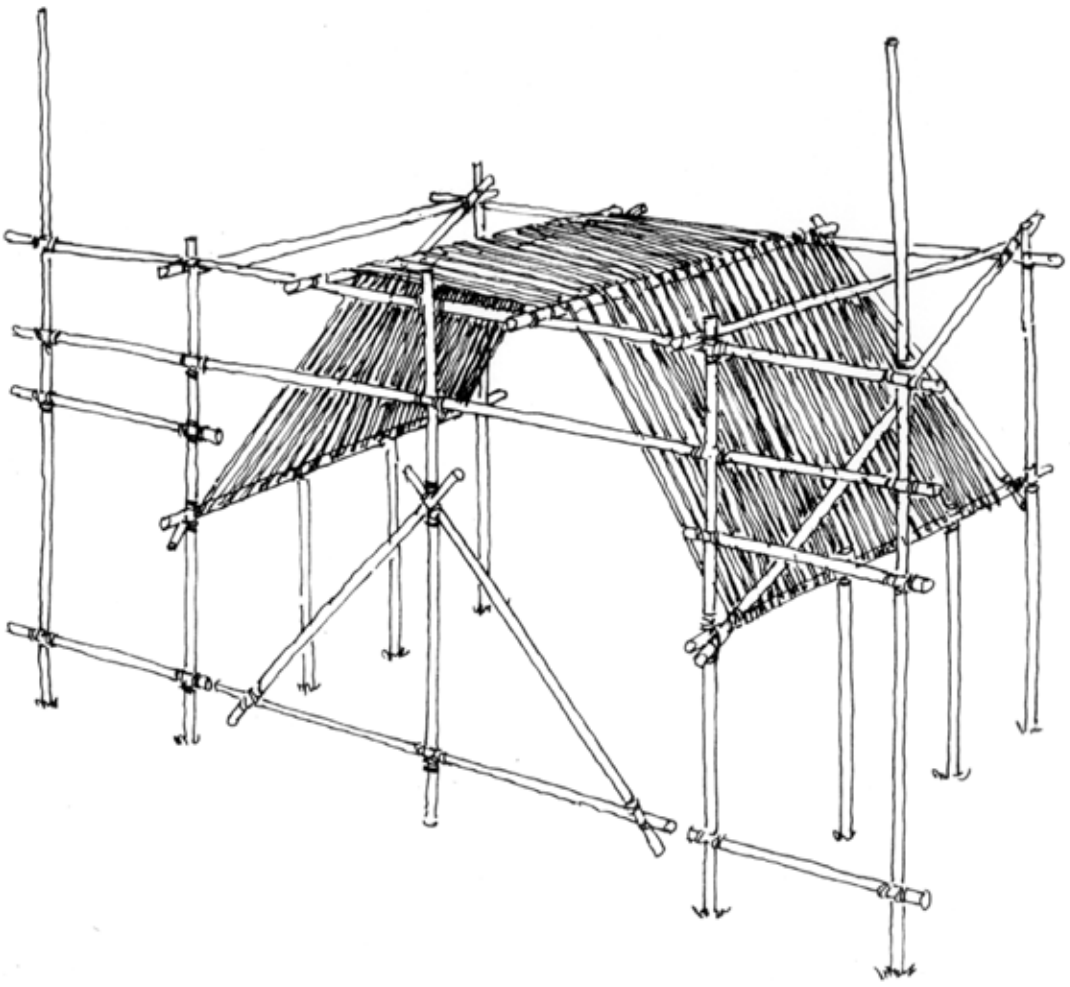


Rotating Gate
TURNSTILE Gate

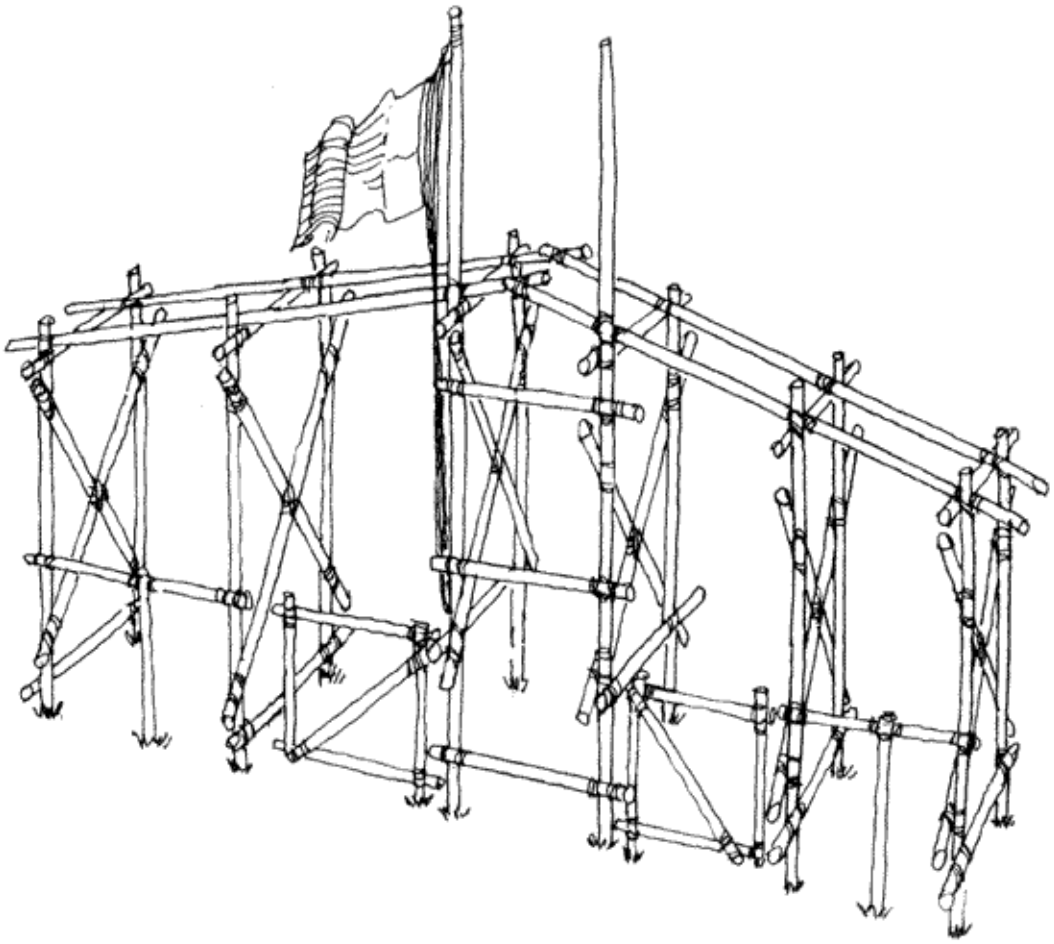
Basic ‘Free Standing’ gateway



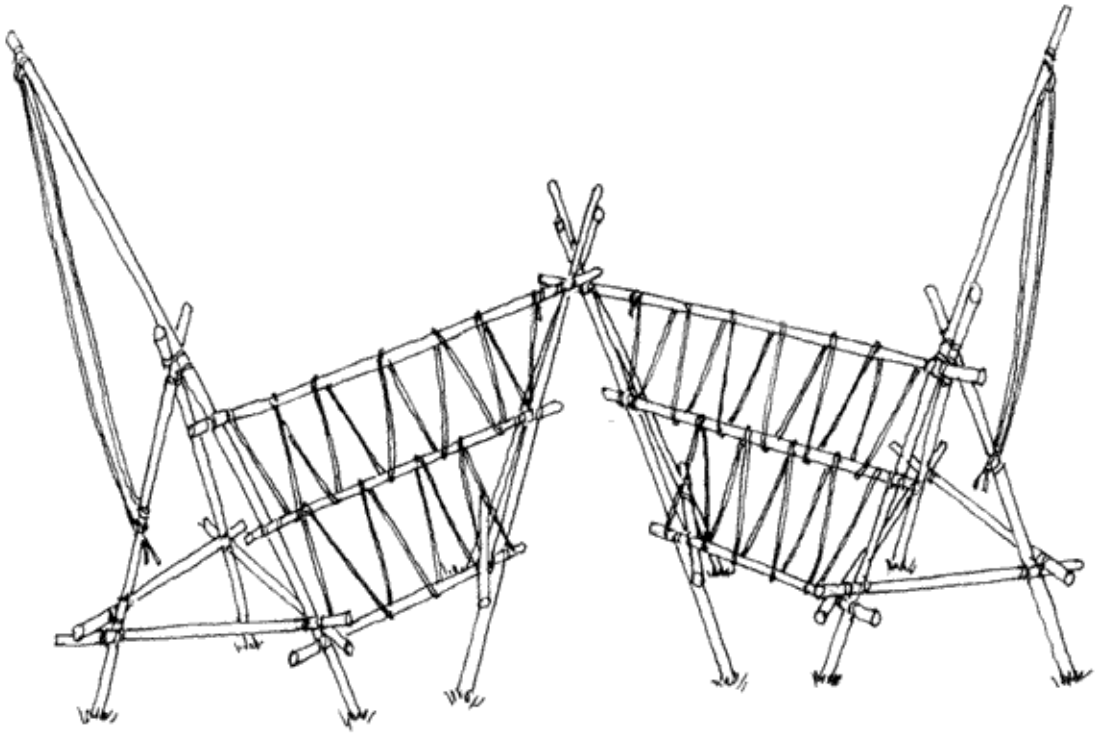
Covered Gateway with Swinging Gate



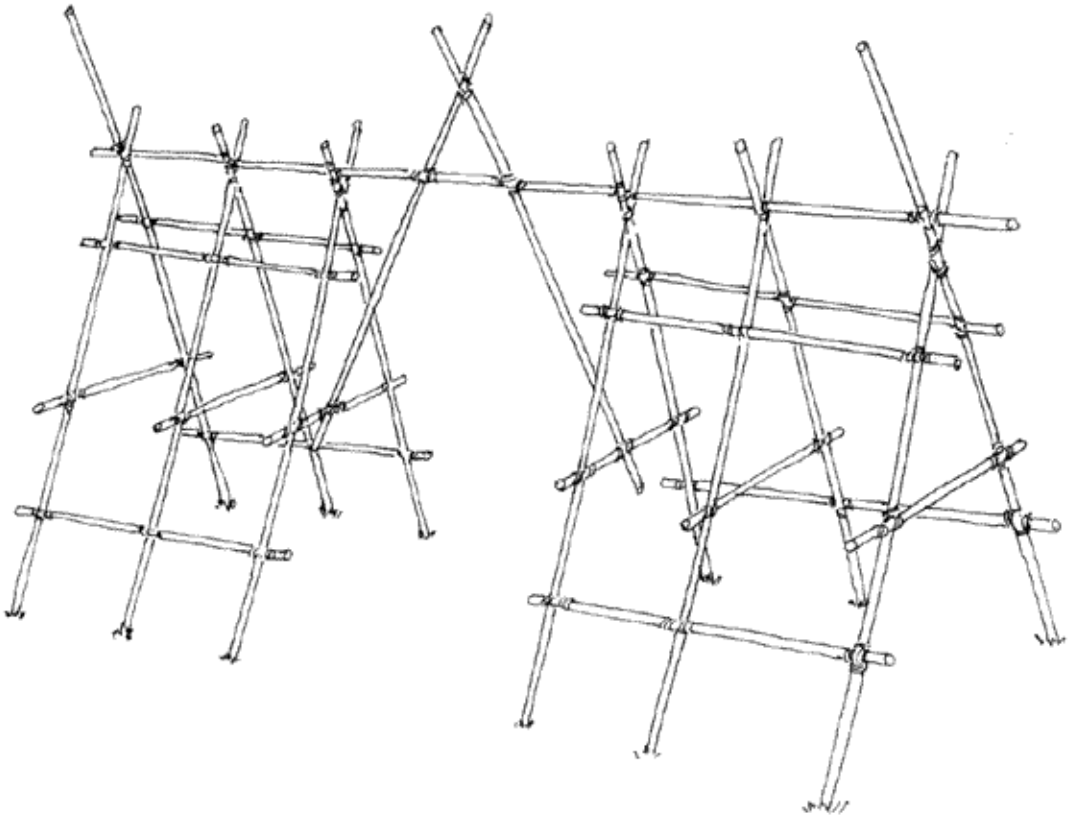
Two Door Gateway



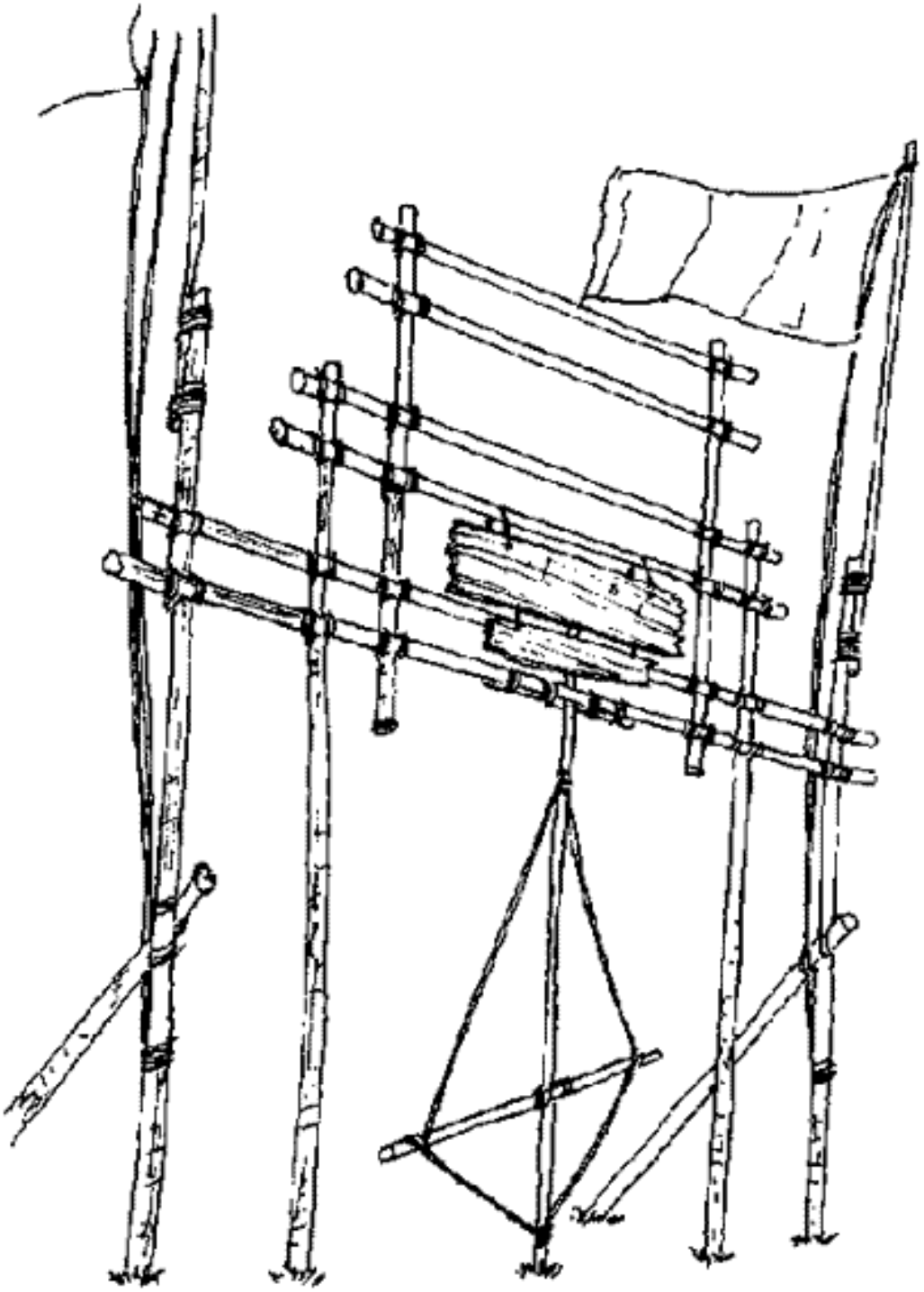
“Weird Looking” Gateway



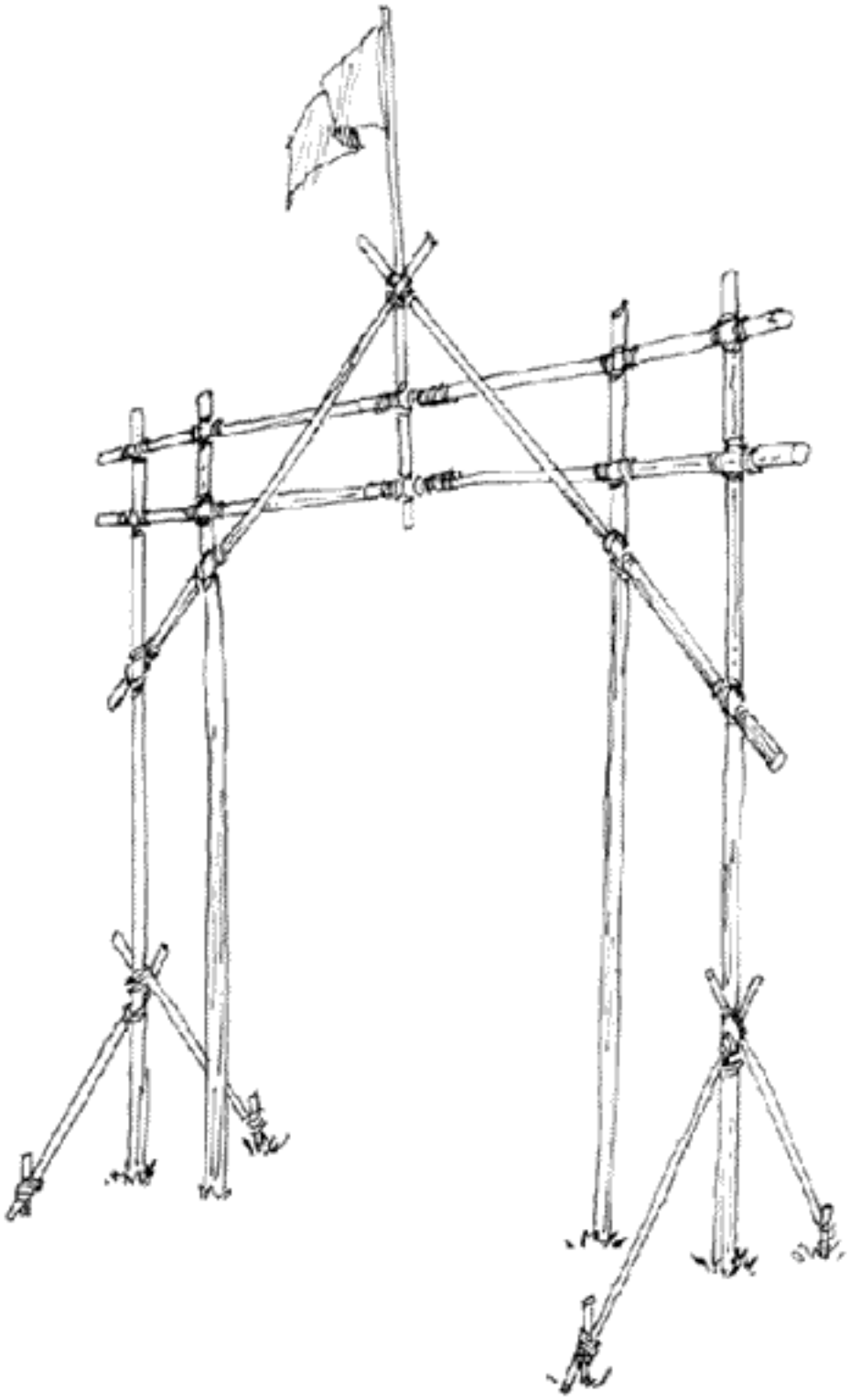
Easy ‘Free Standing’ Gateway



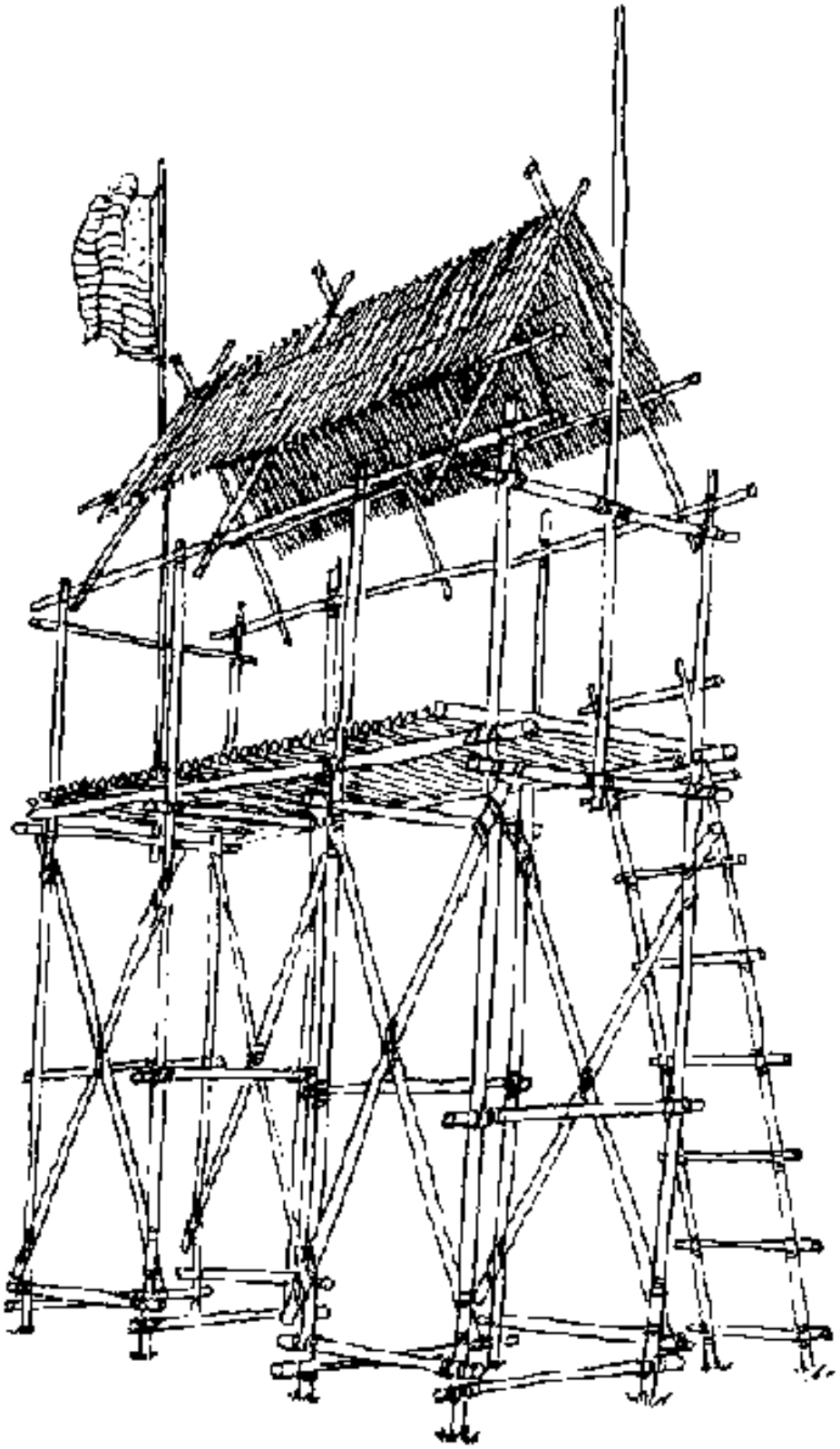
‘In Ground’ Gateway with Swinging Gate



Simple ‘In Ground’ Gateway

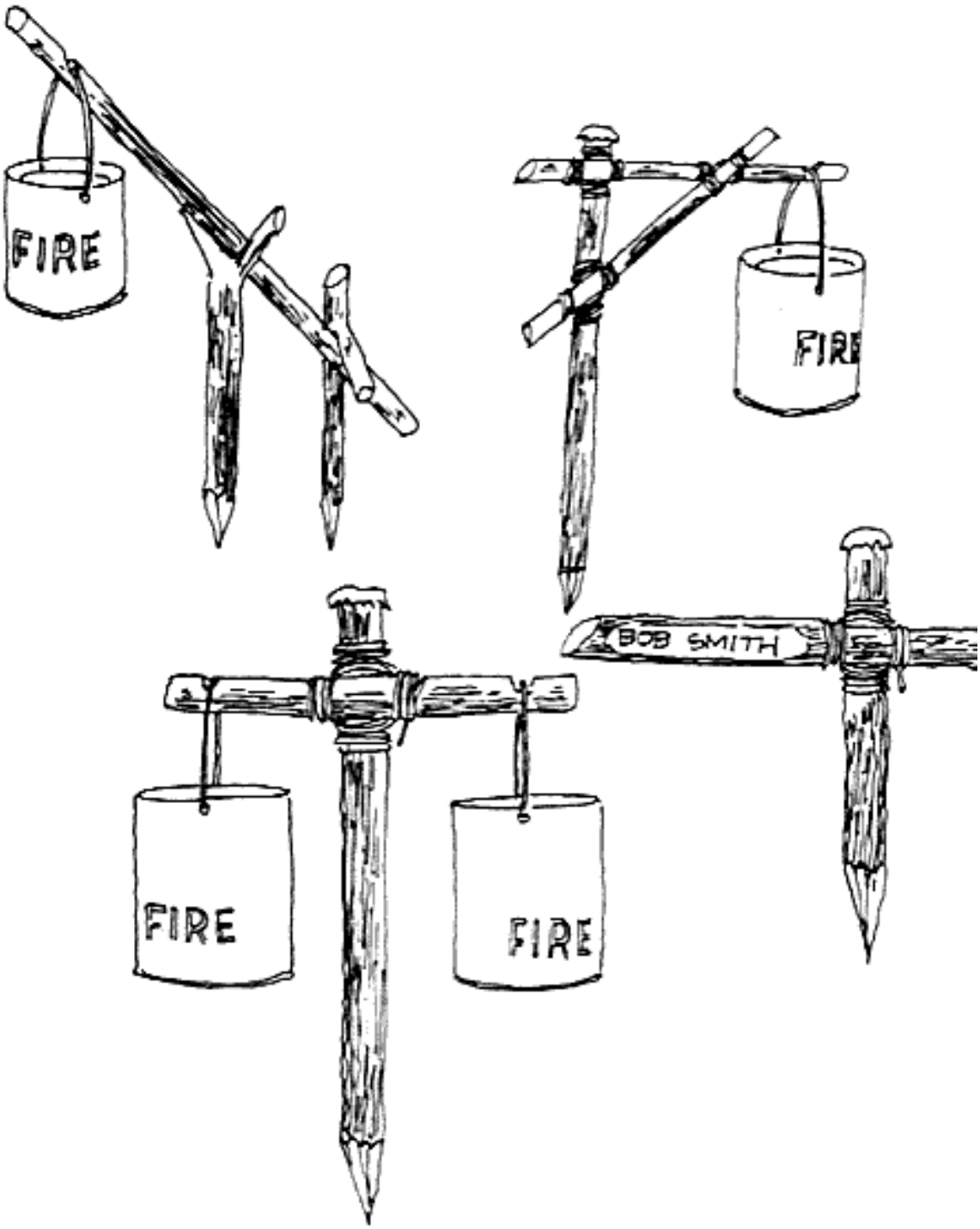


Seriously Large Covered Gateway

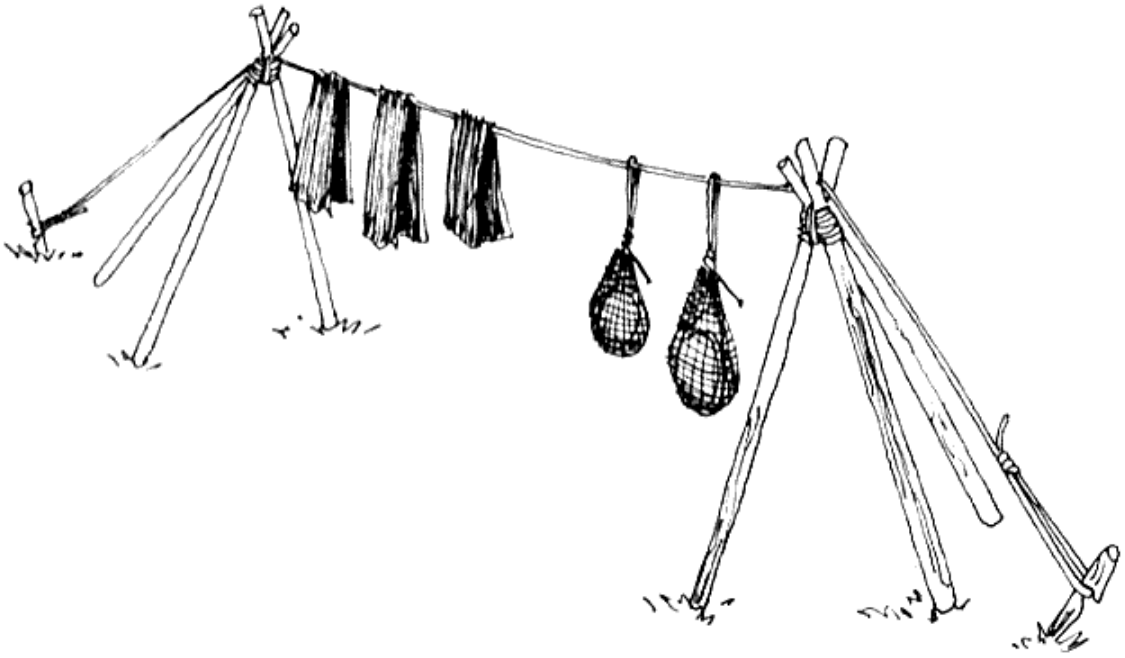


Camp Tools / Gadgets

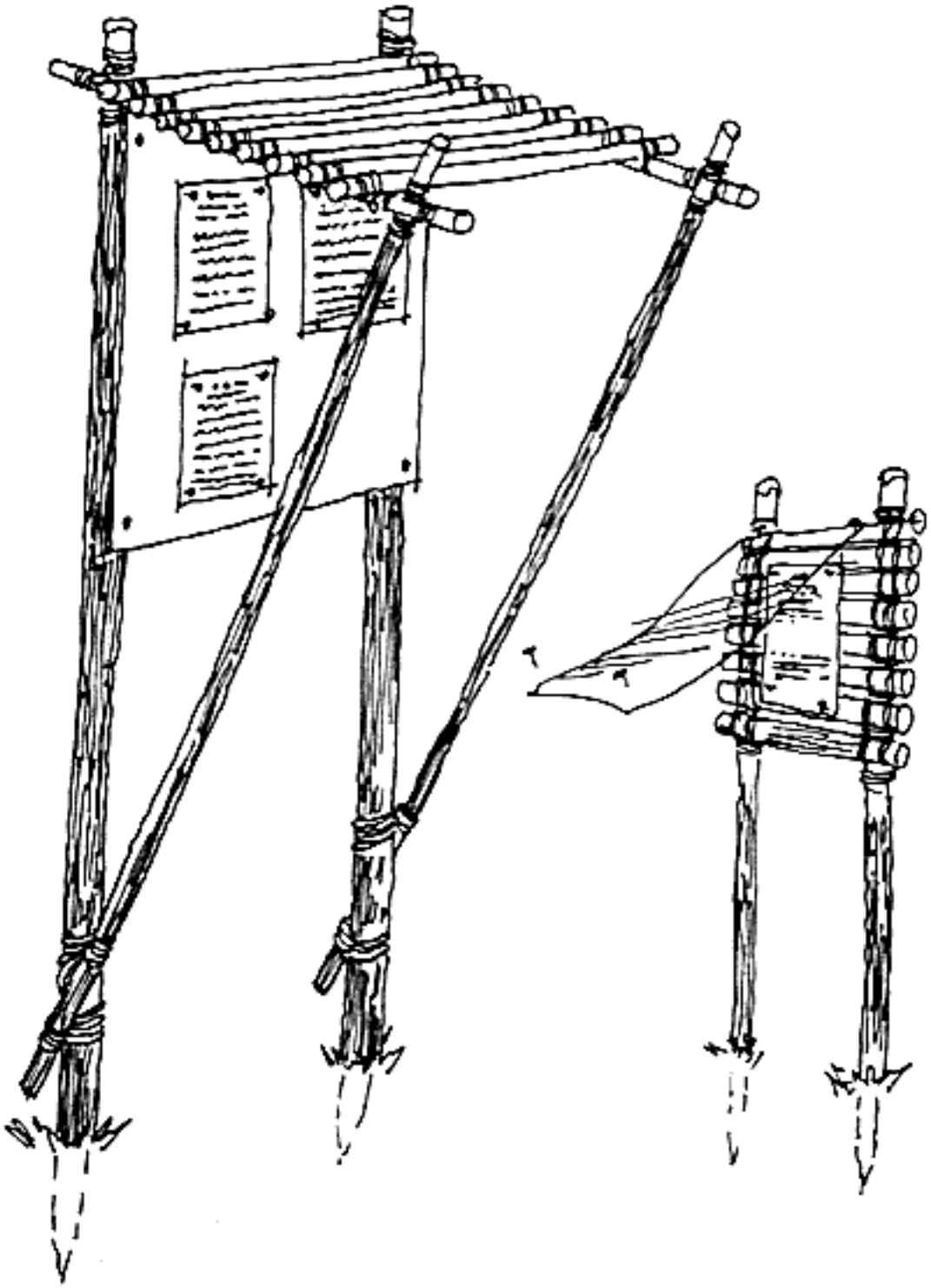
Fire Bucket Holders



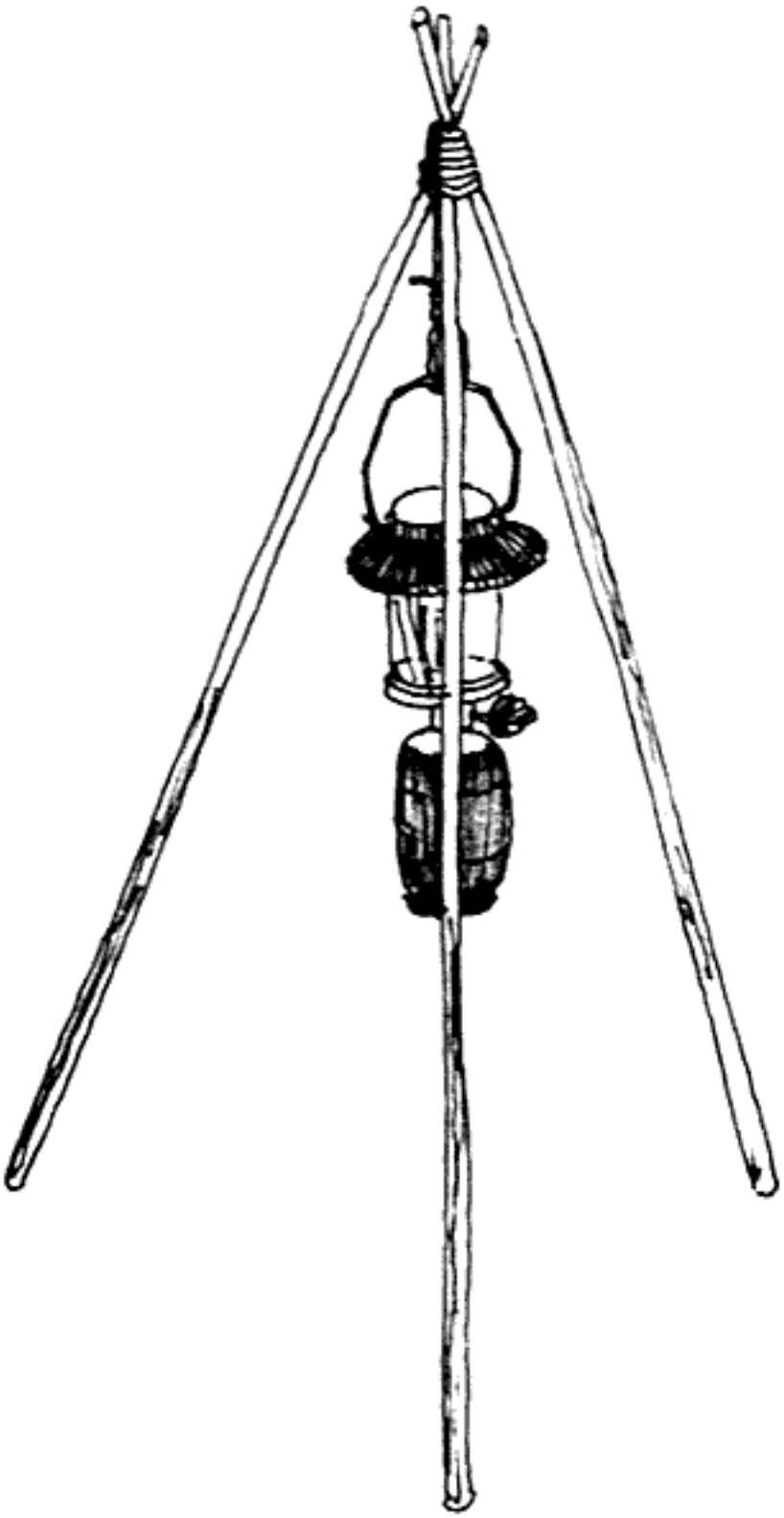
Clothesline



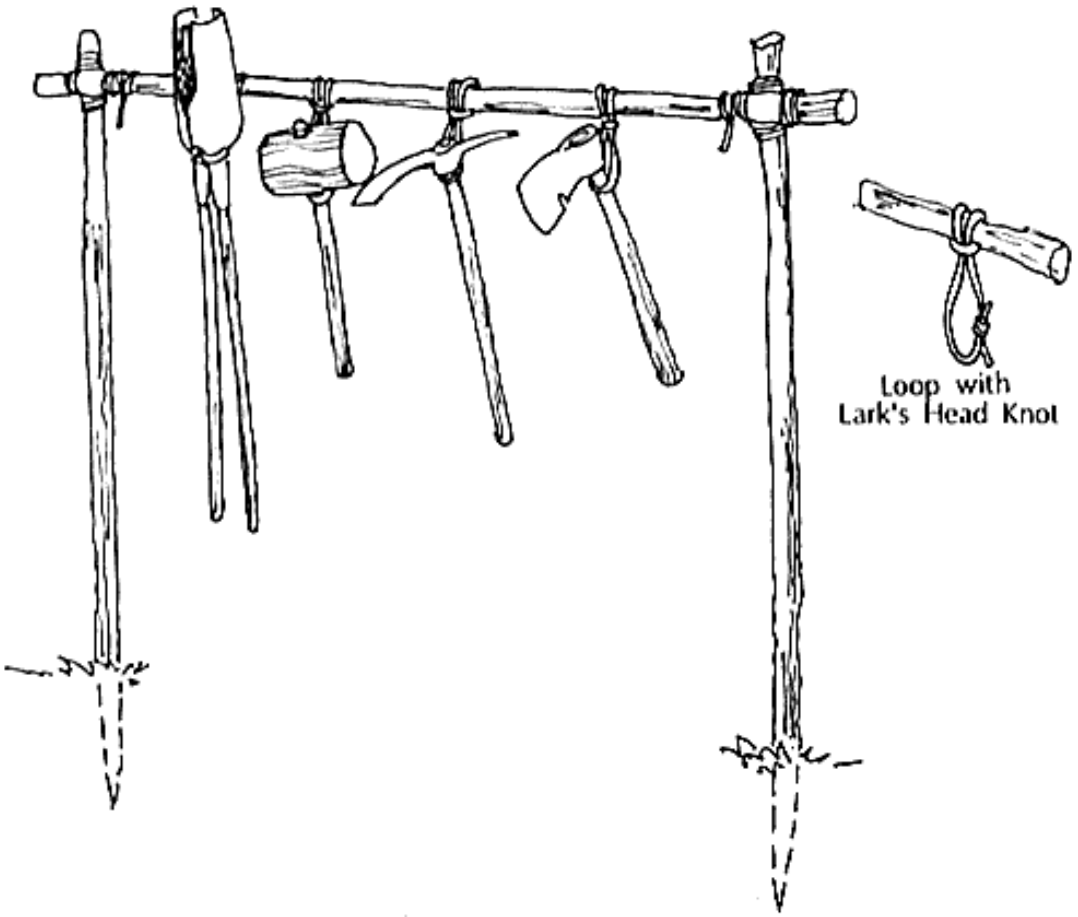
Bulletin Board



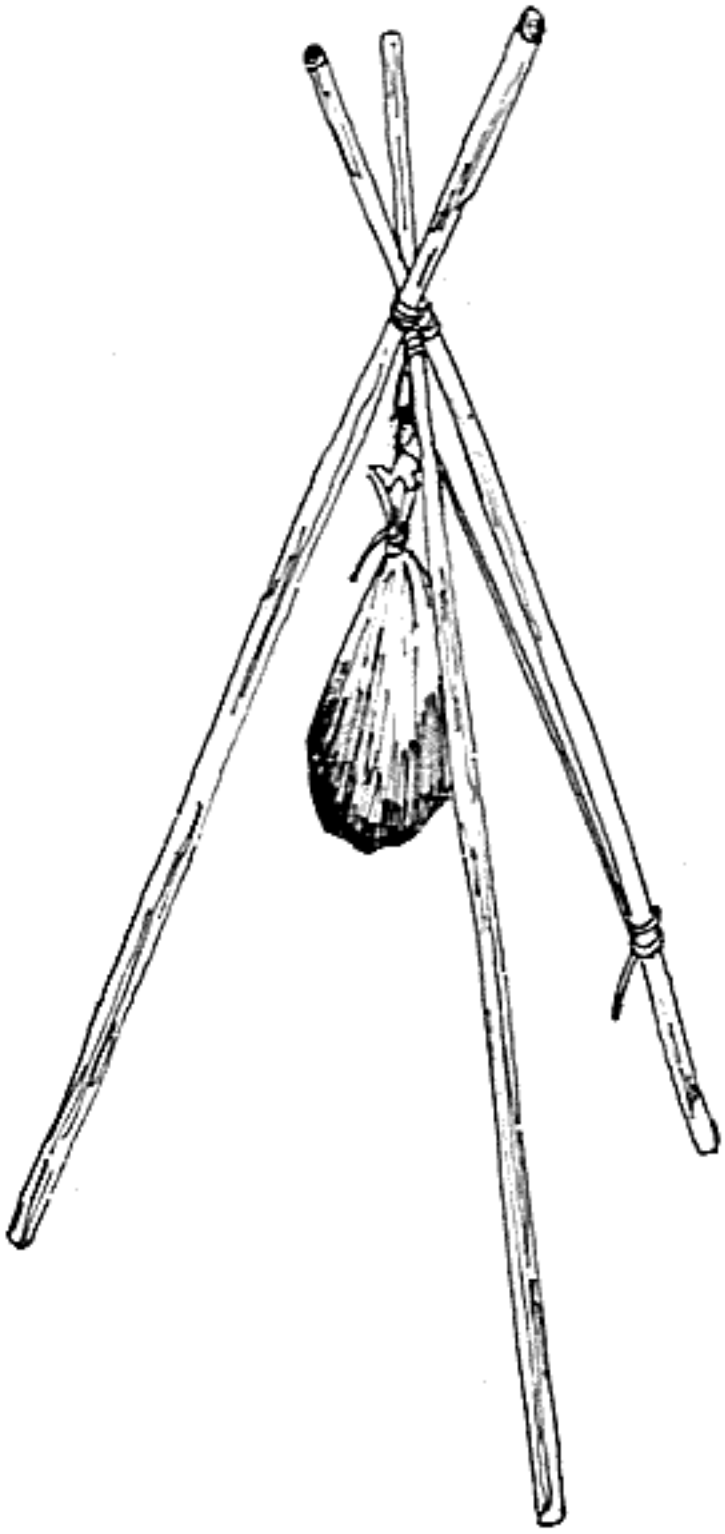
Lantern Holder



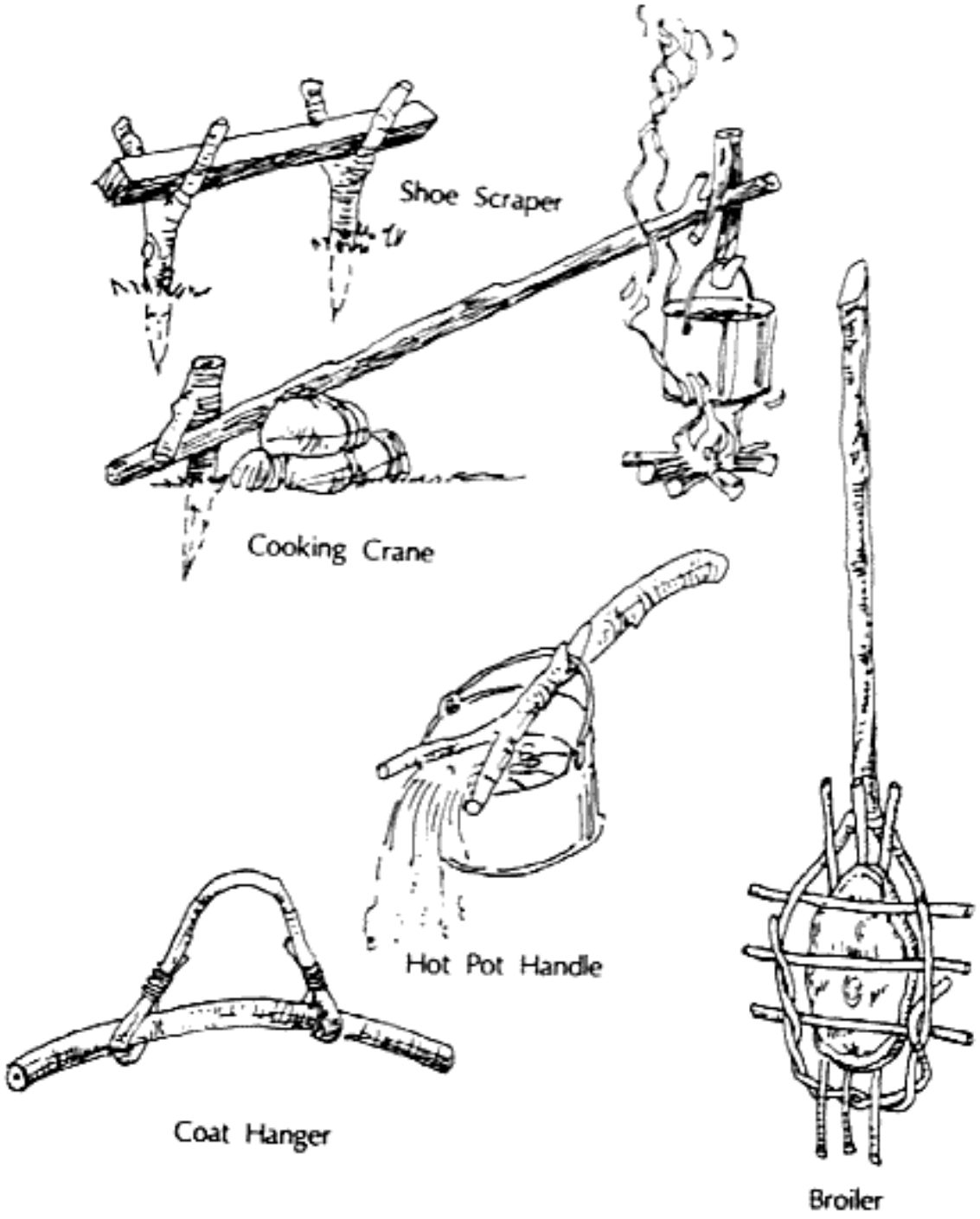
Tool Rack

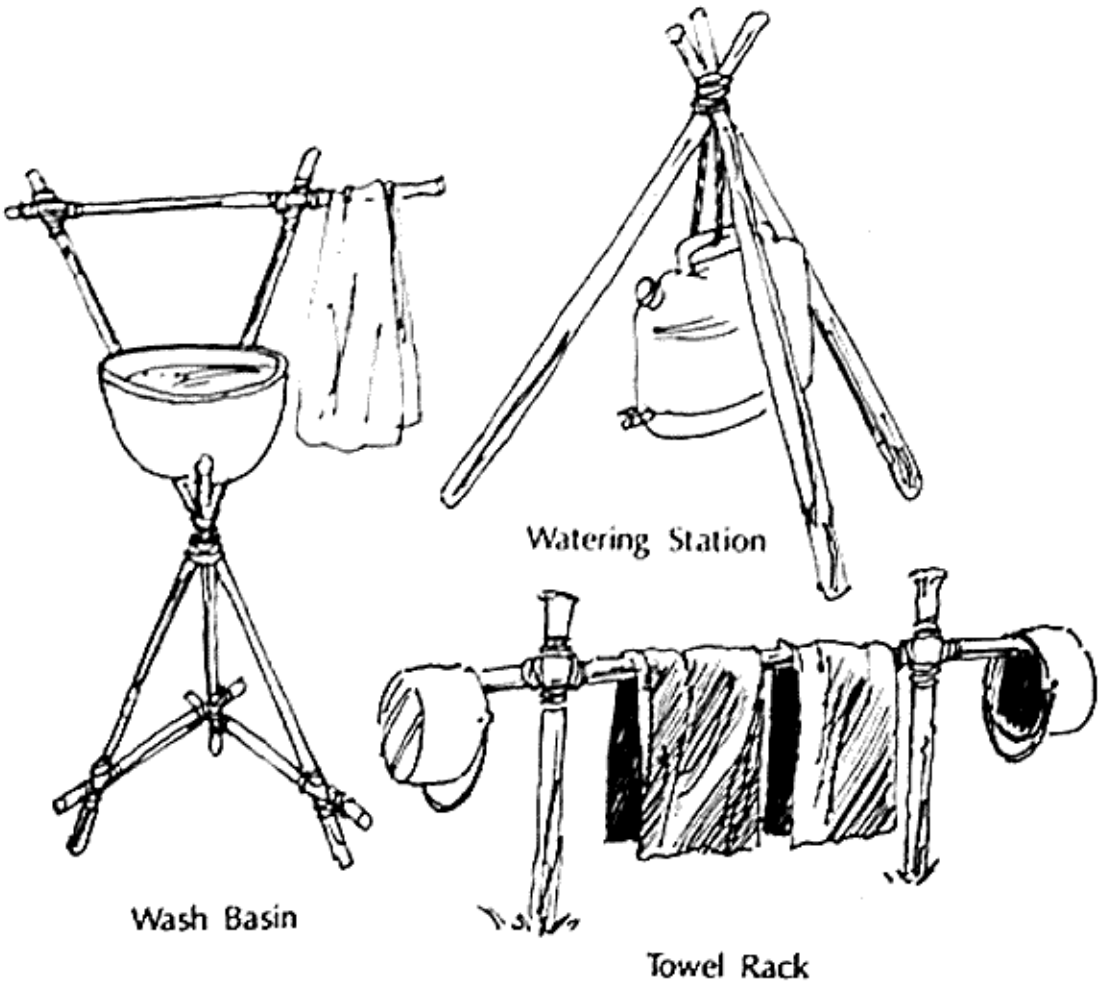


Bear Bag

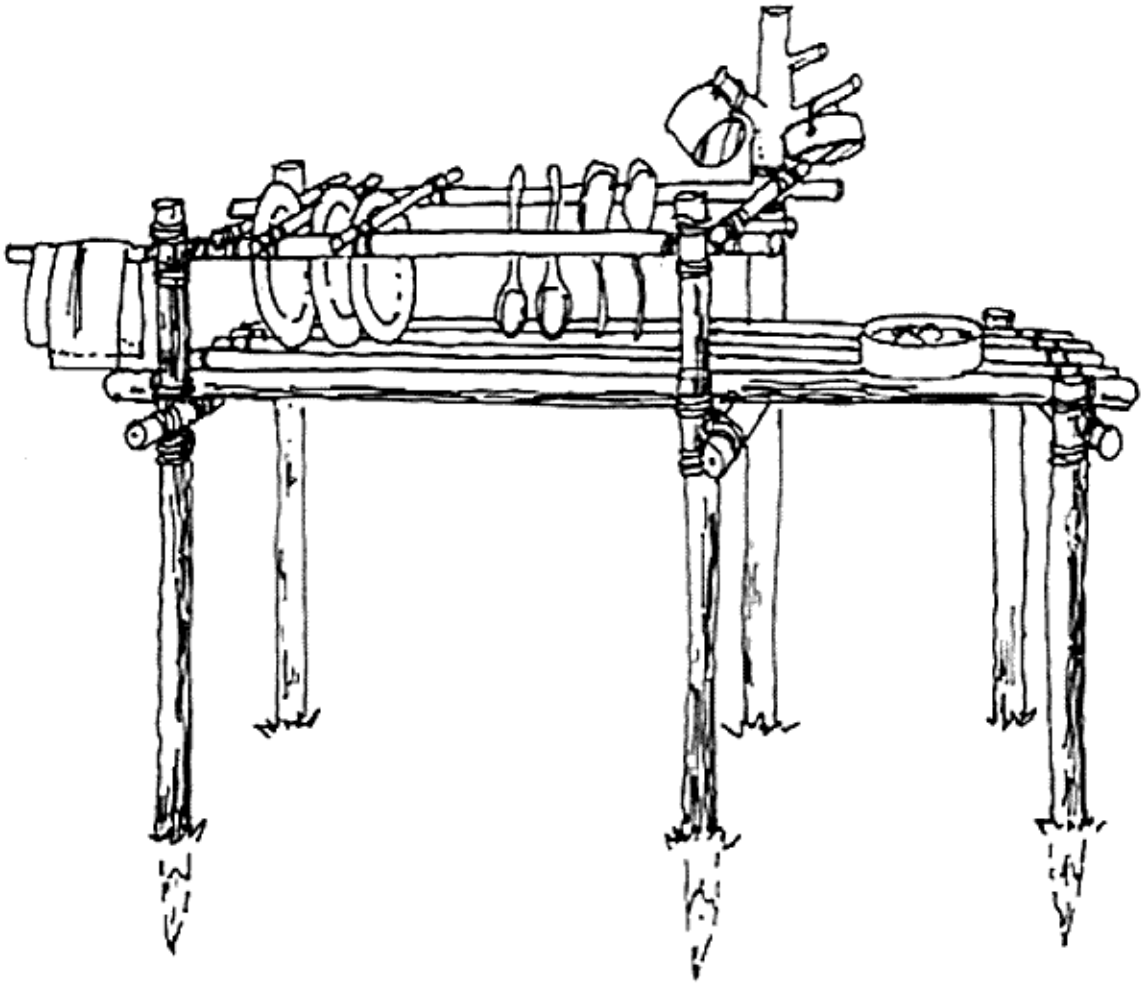


Various Camp Tools

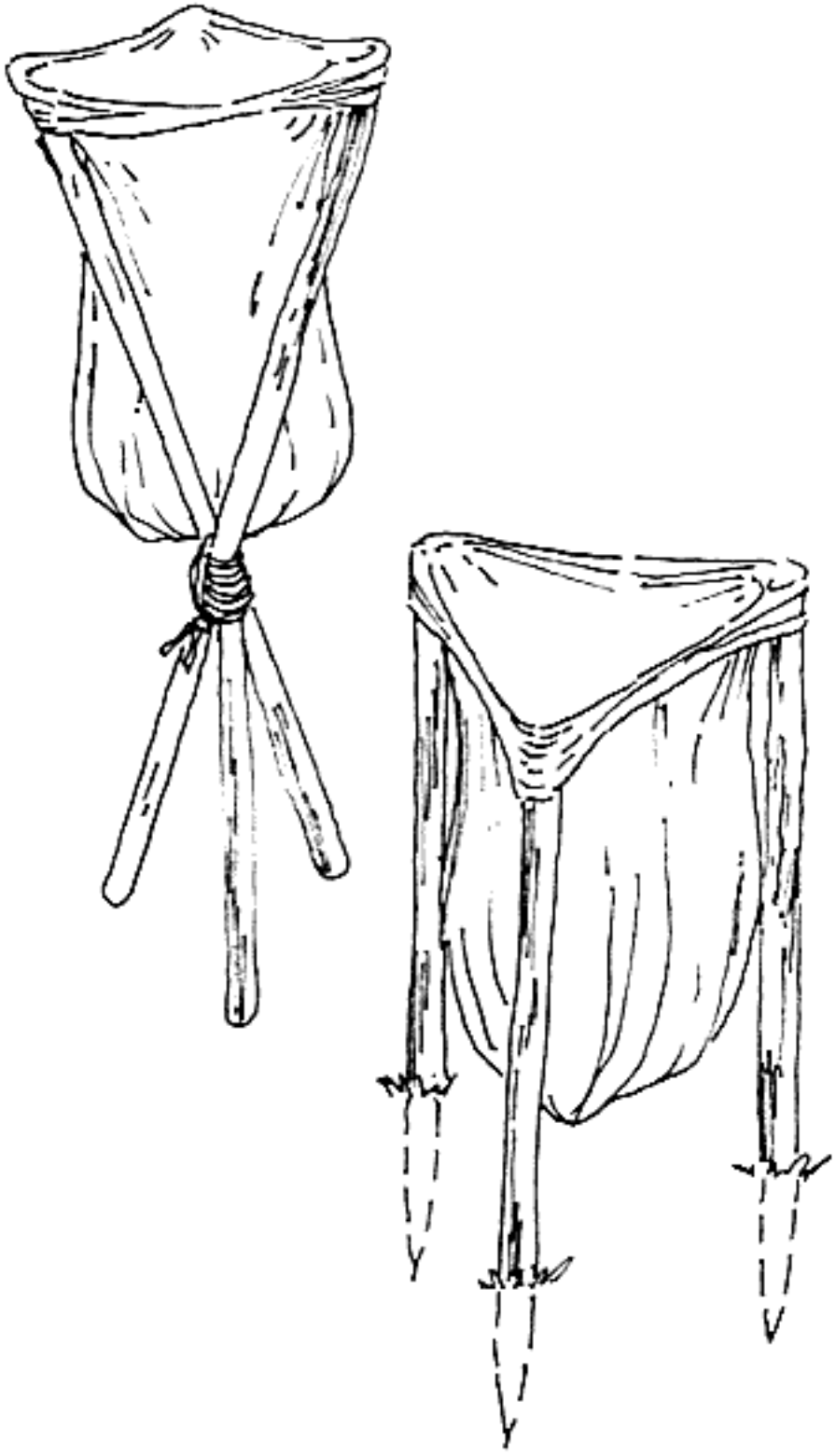



Watering Station
Wash Basin
Towel Rack

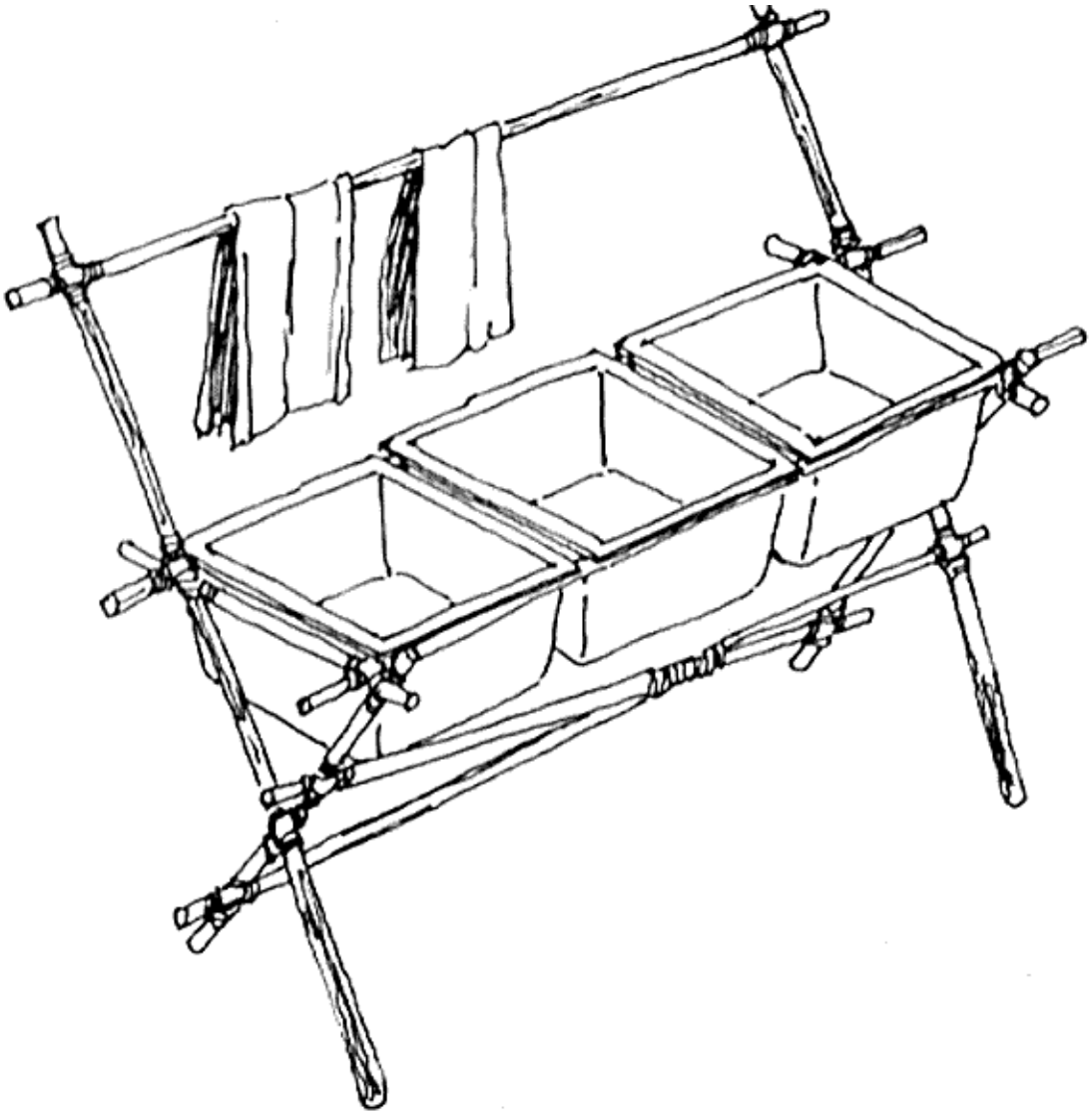
Kitchen Work Table



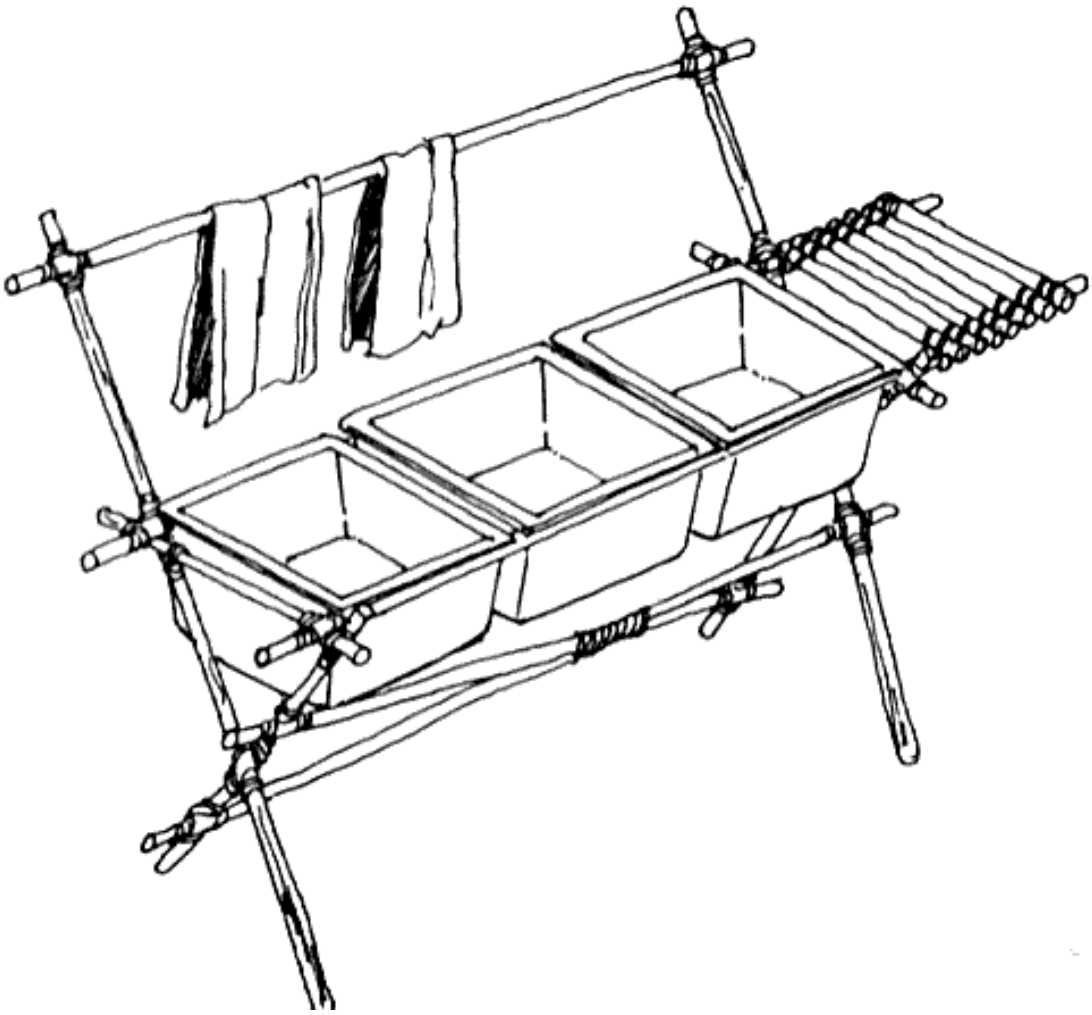
Garbage Bag Holder



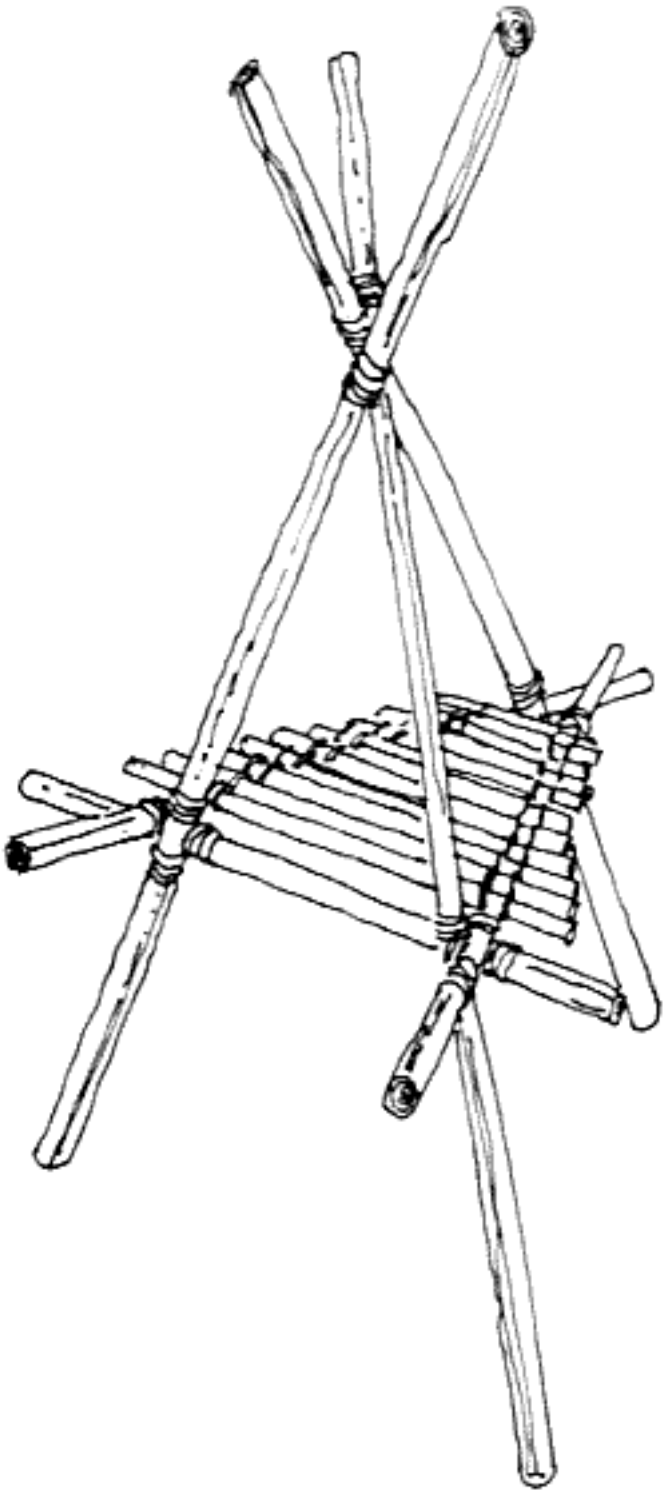
Wash Basin



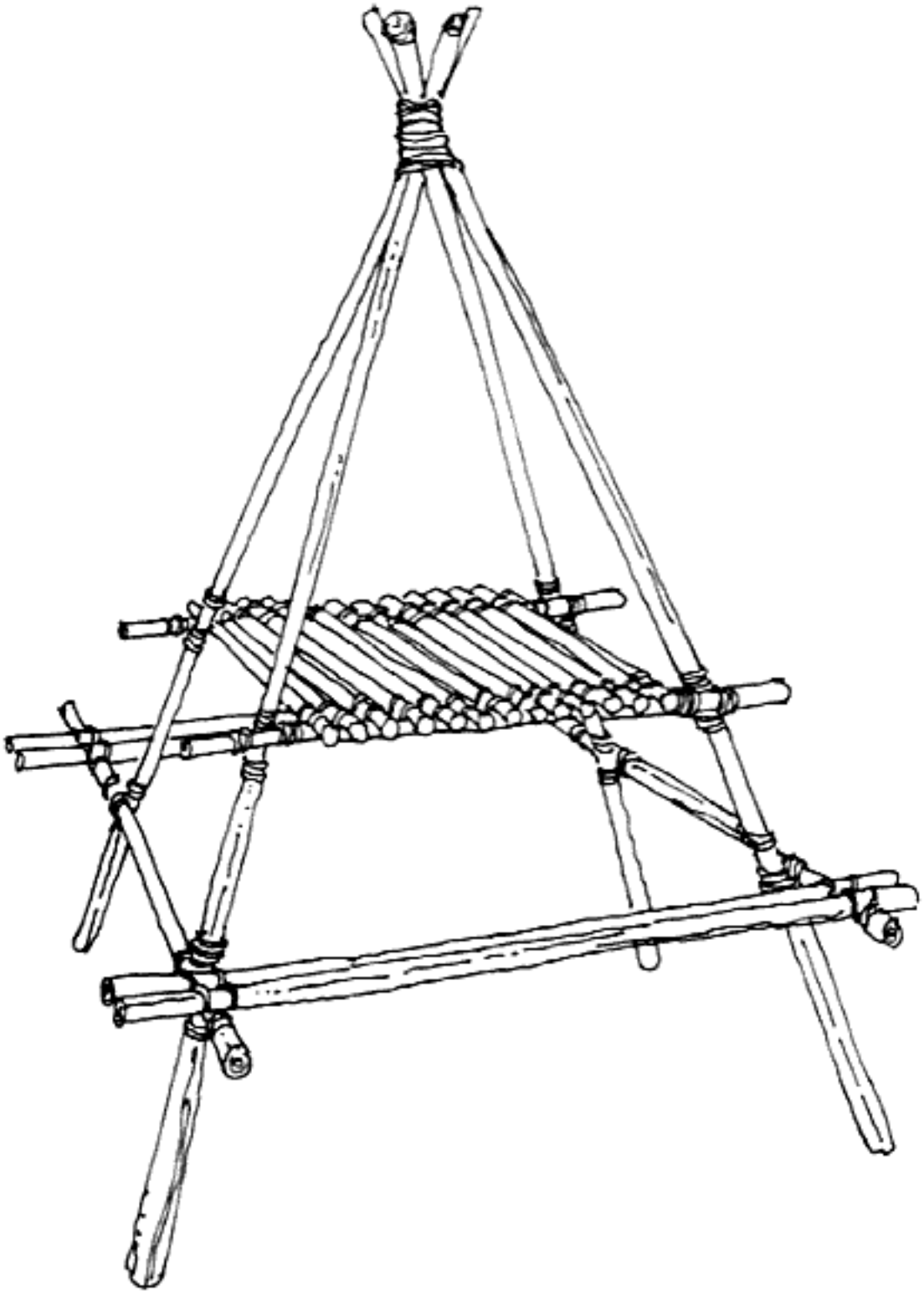
Wash Basin with Shelf



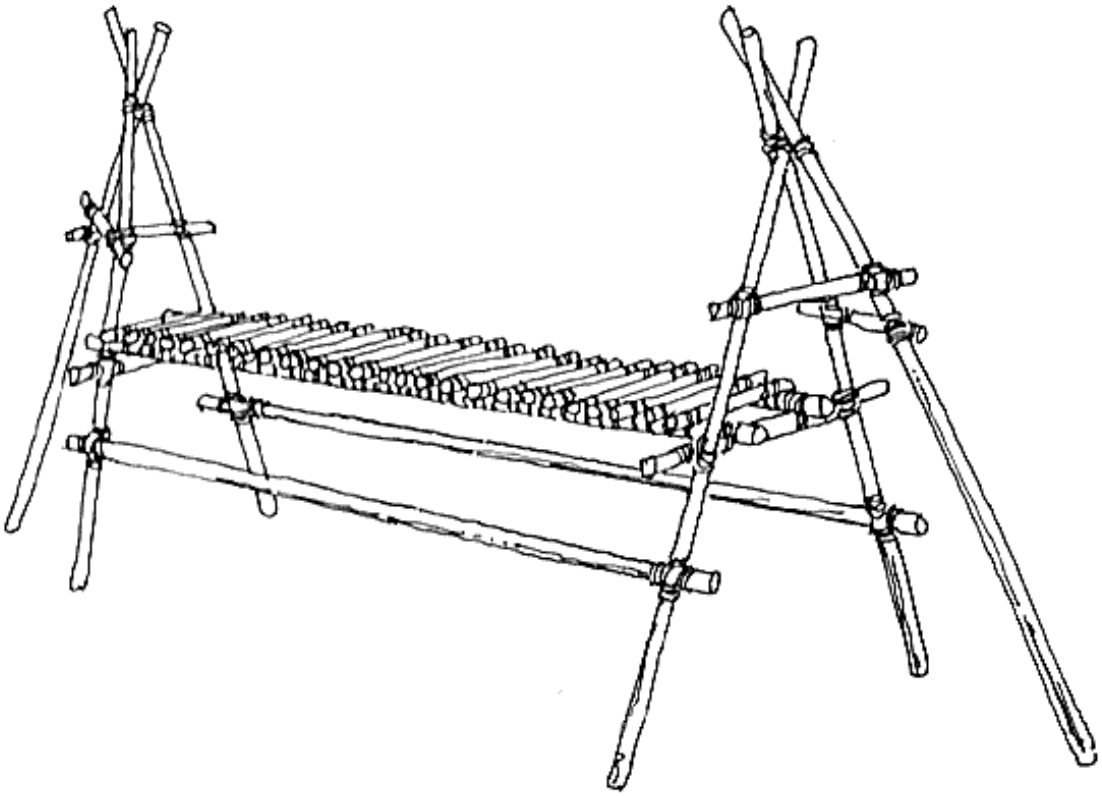
Camp Table



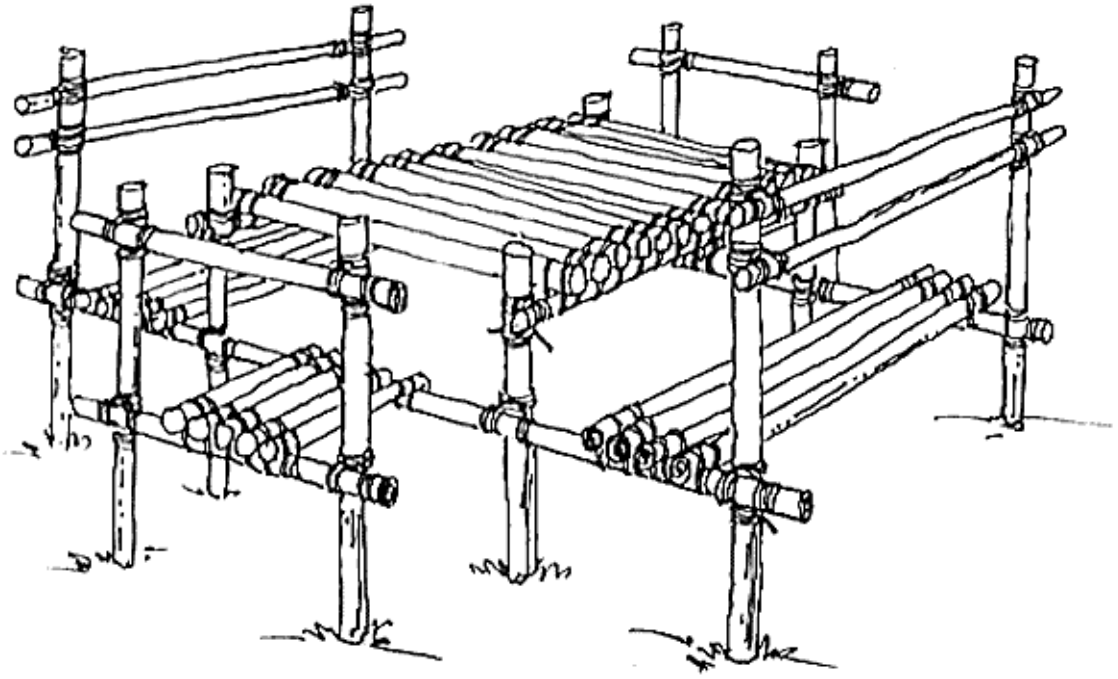
Camp Table with Seats



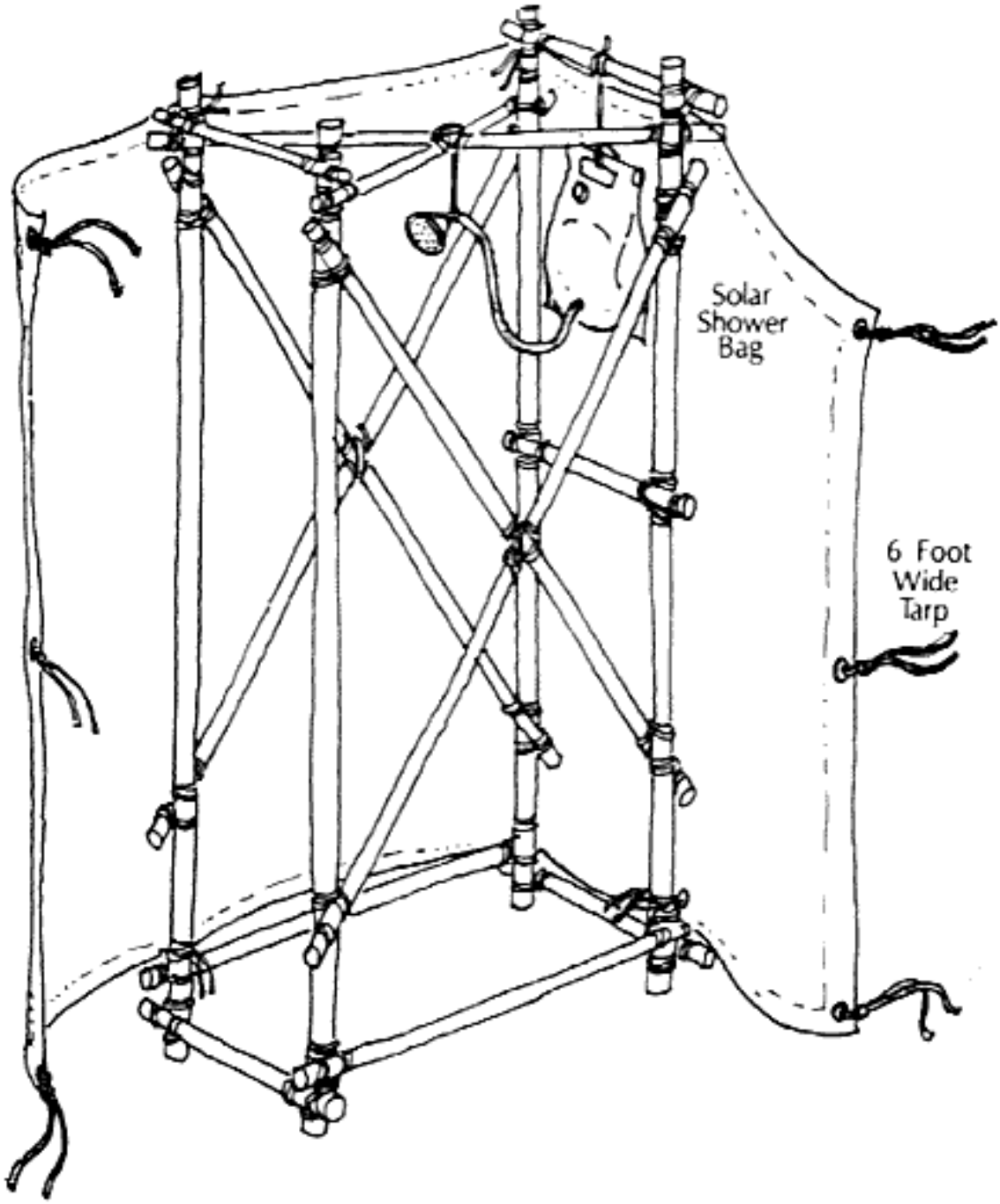
Chippewa Cooking Fire Stand



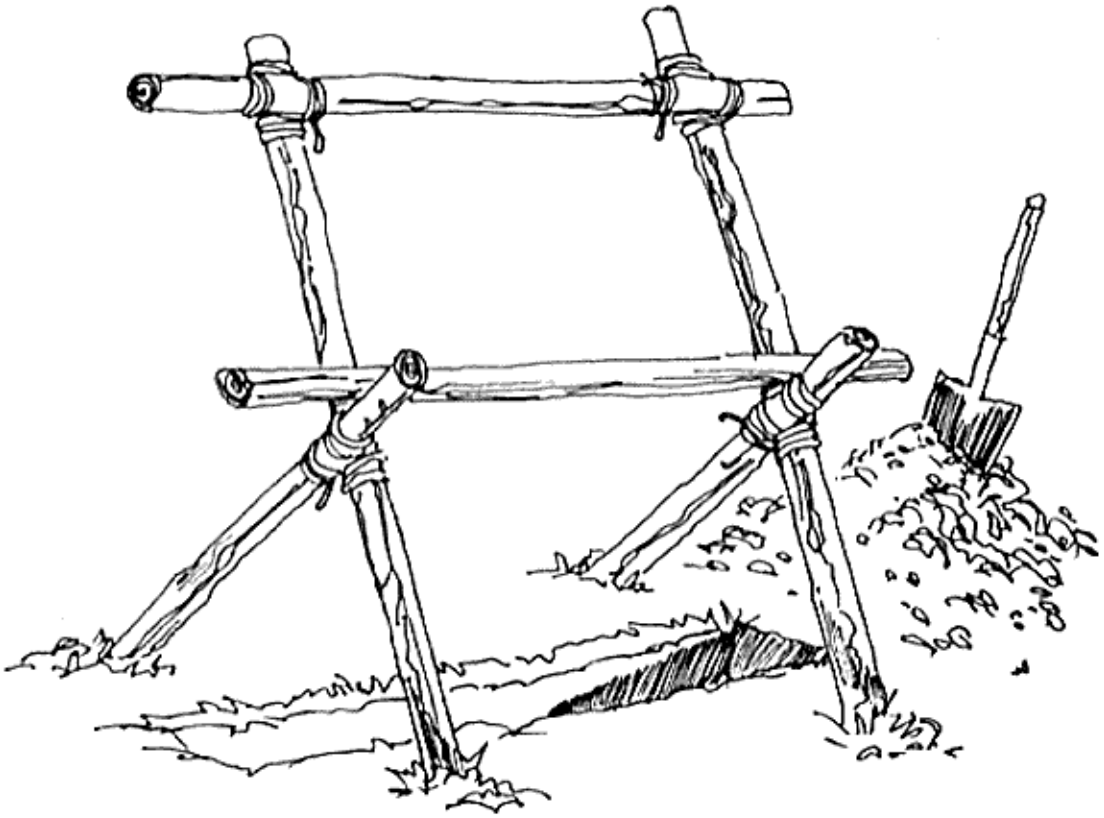
Camp Table with Bench and Seat



Shower

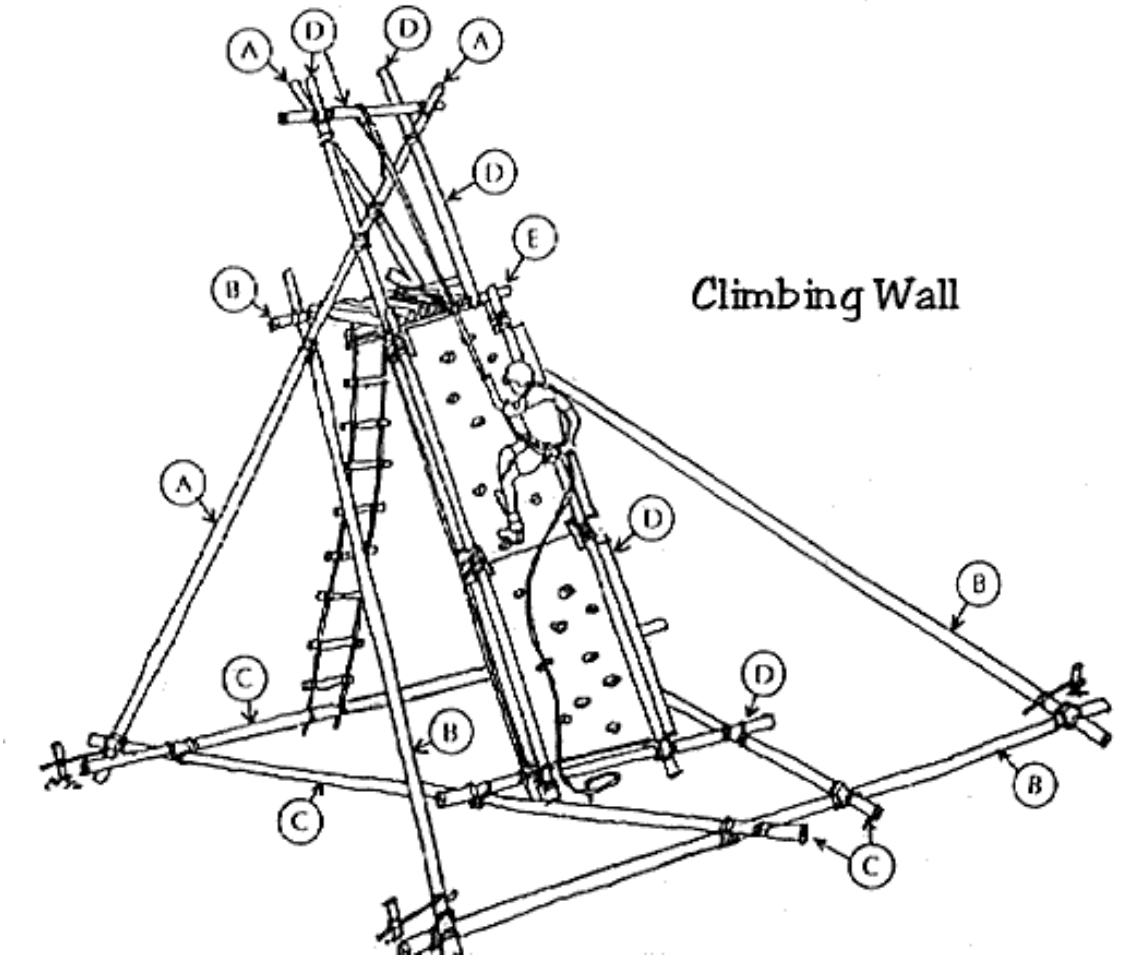


Latrine

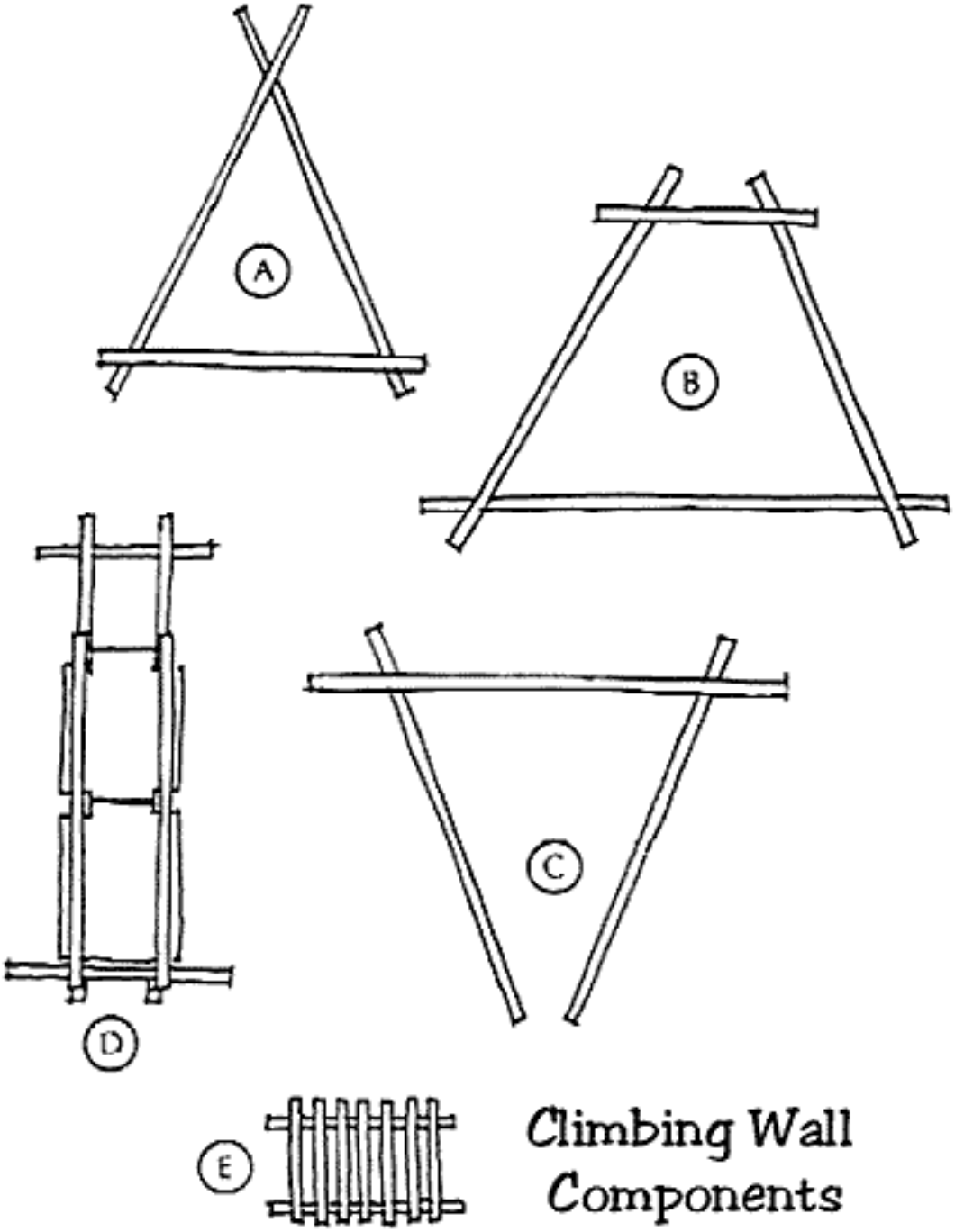


Miscellaneous Projects

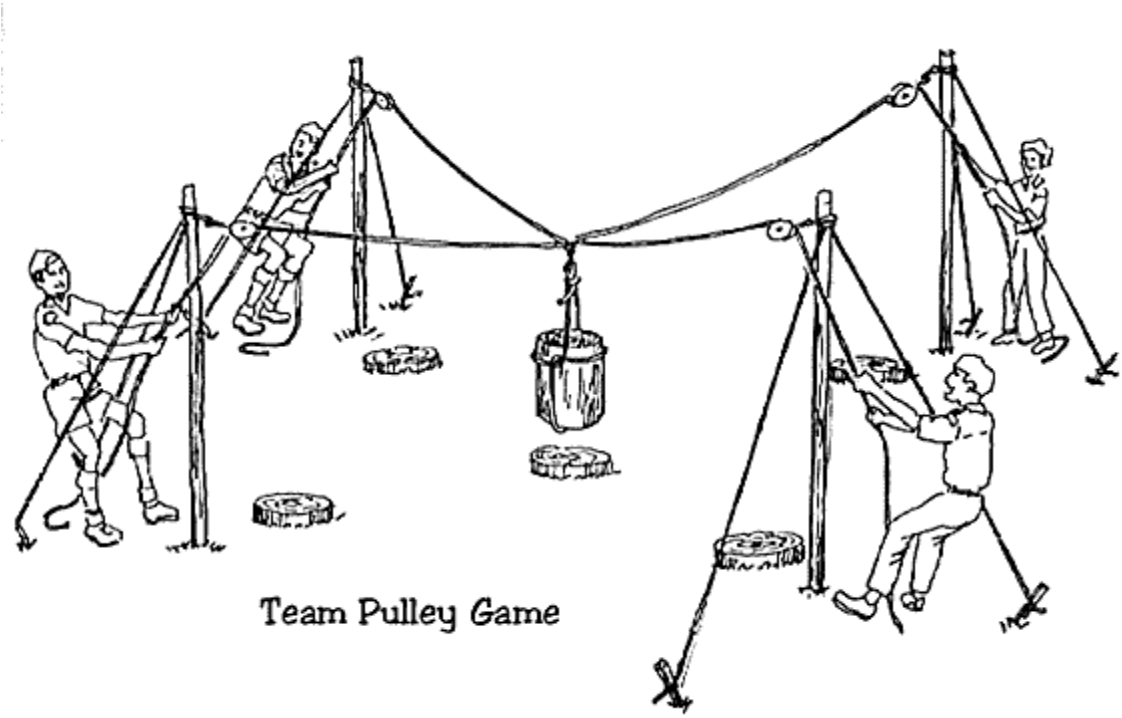
Climbing Wall



Climbing Wall Components

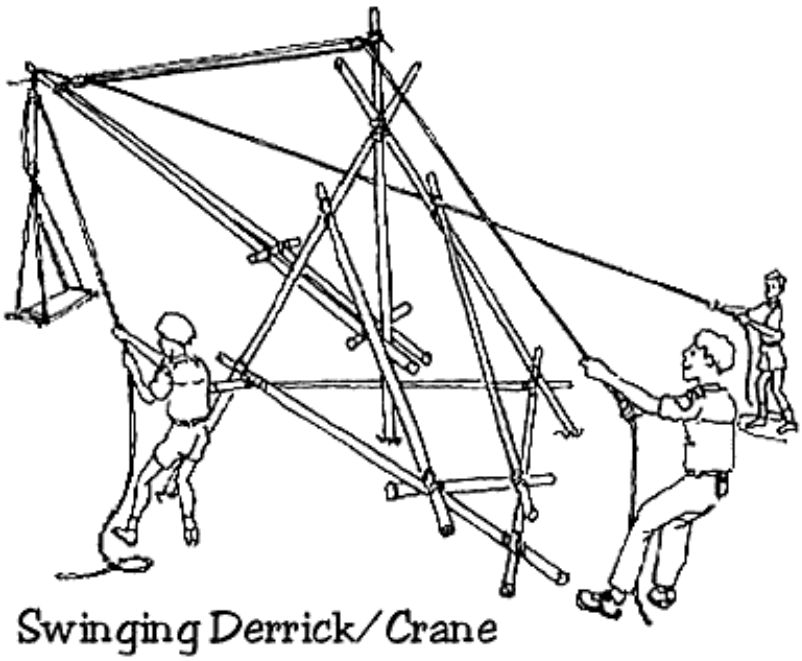


Team Pulley Game



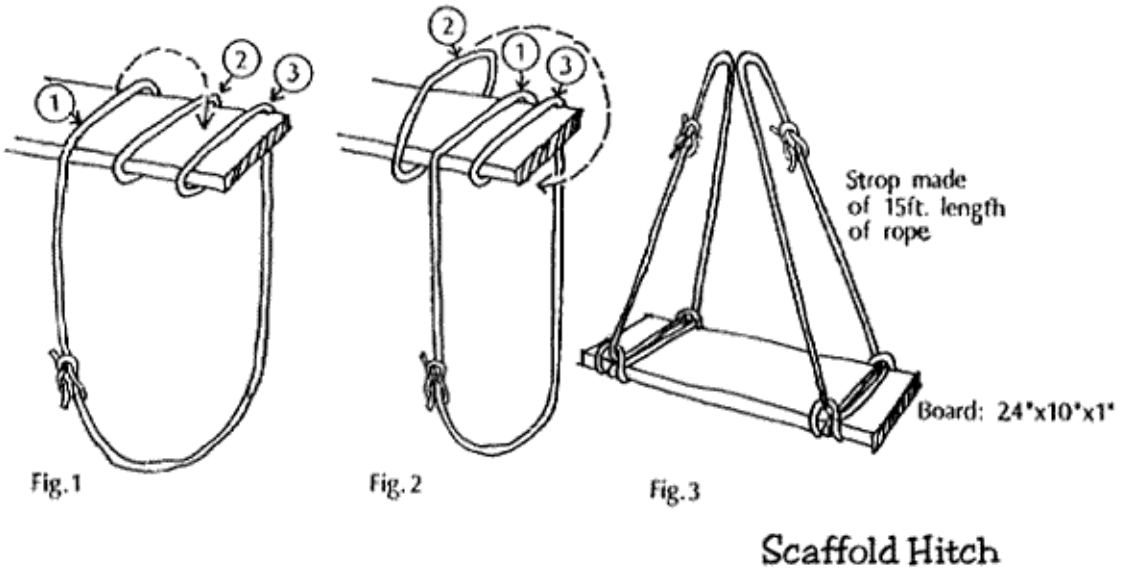
Team Pulley Game

Swinging Derrick/Crane



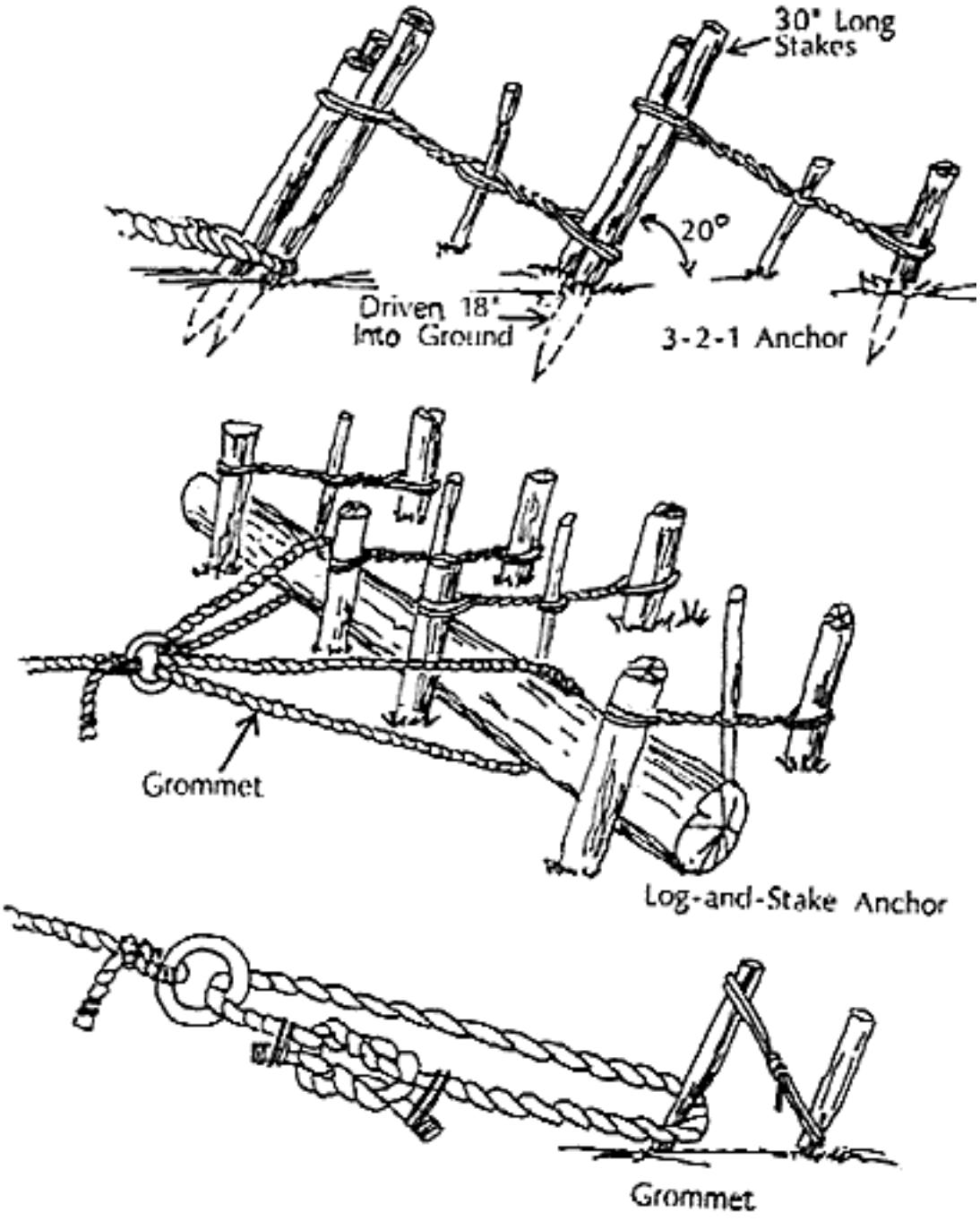
Swinging Derrick/Crane

Scaffold Hitch



Scaffold Hitch

Pioneering Anchors



Ladder Hitch

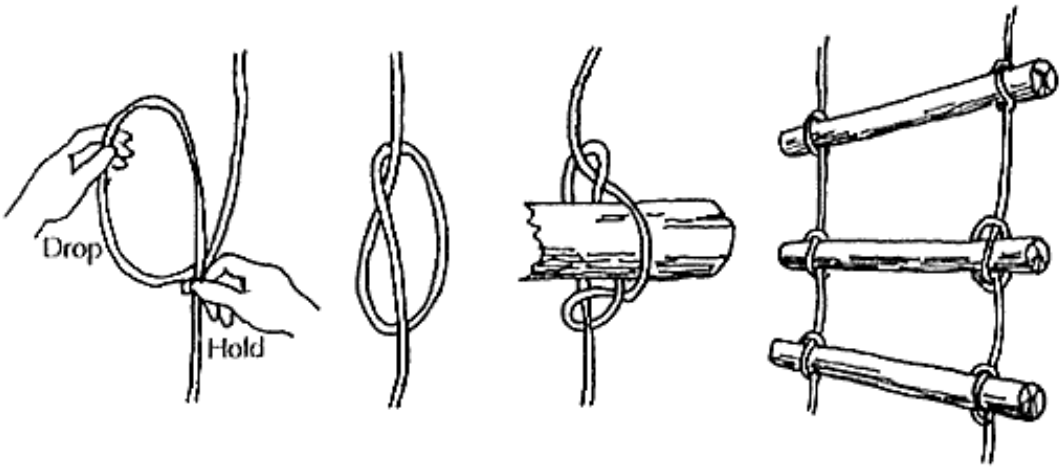
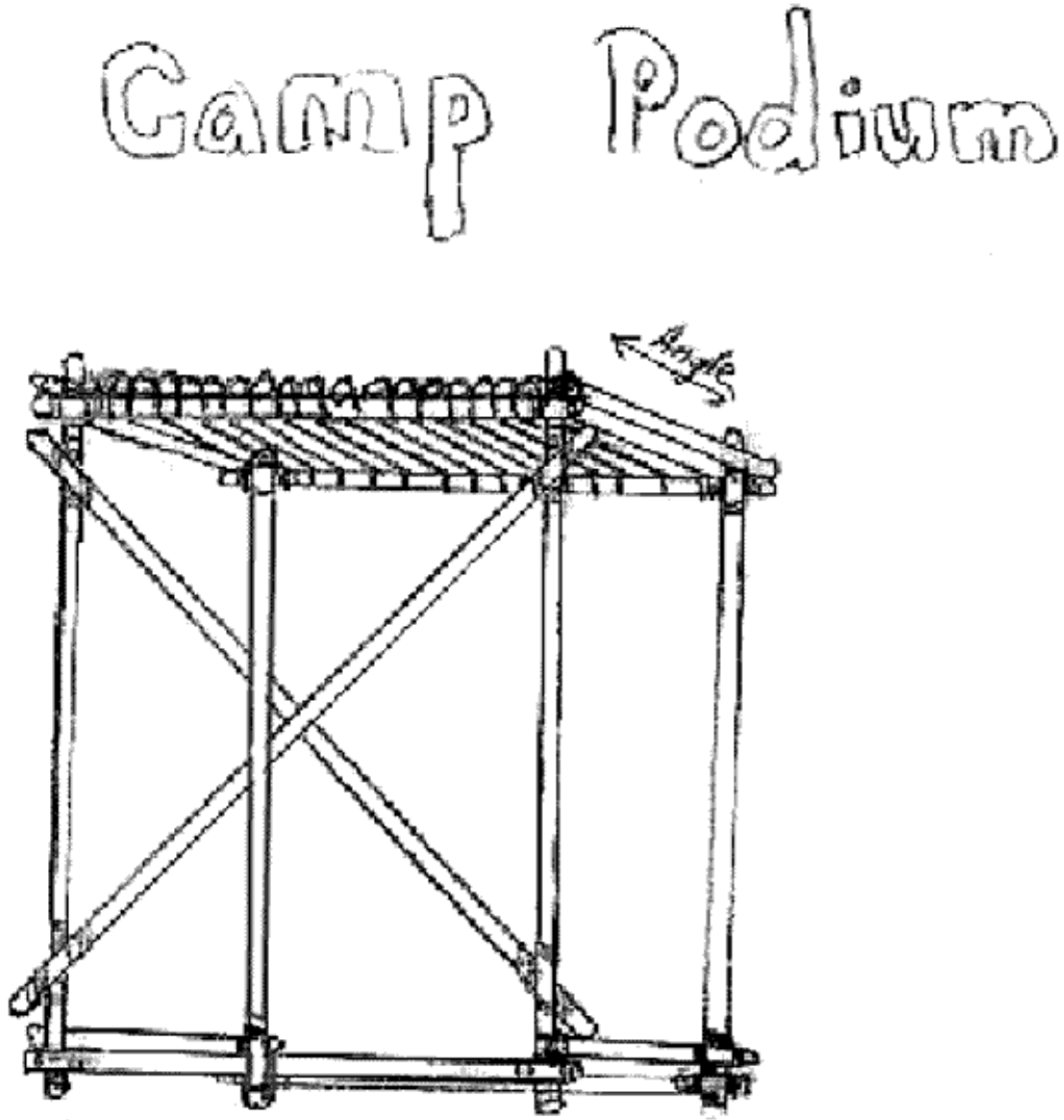


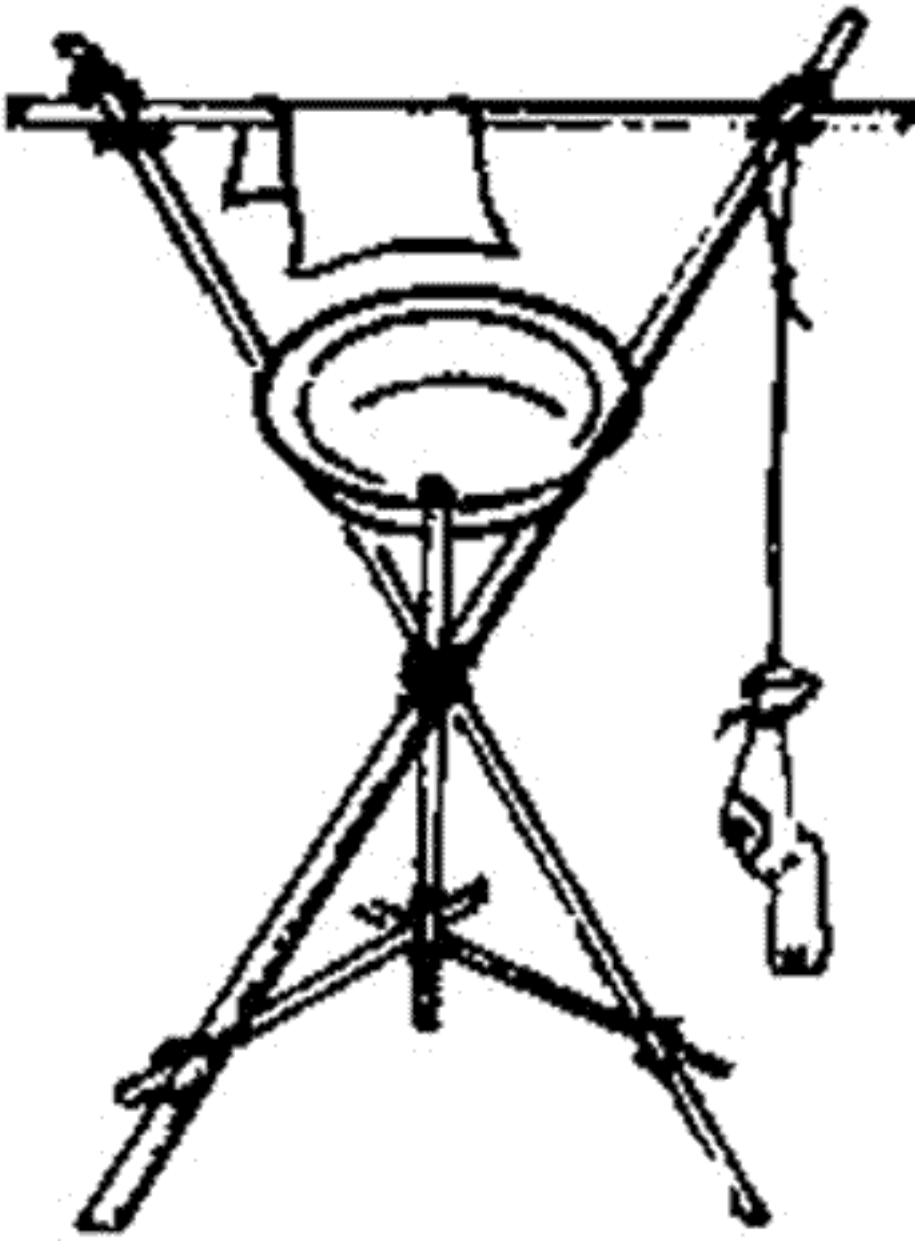
Fig.1 Fig.2 Fig.3 Fig.4

Ladder Hitch

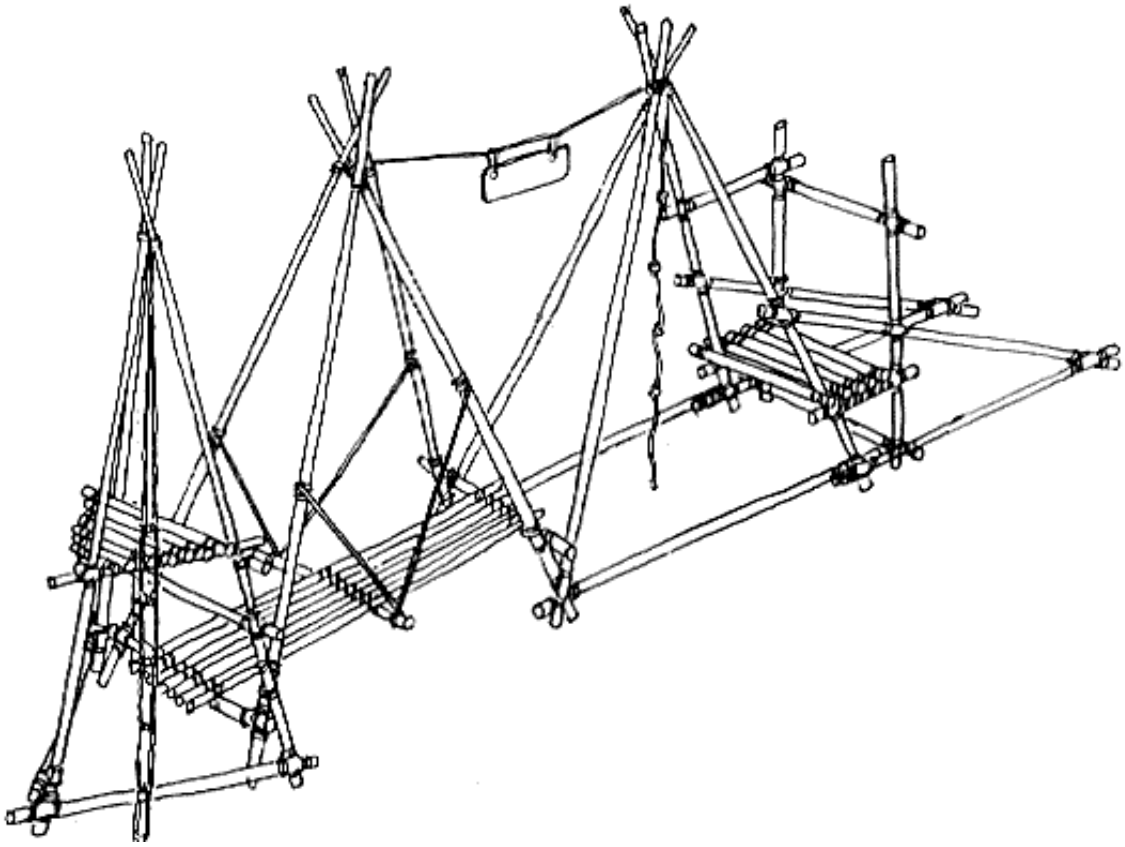
Camp Podium



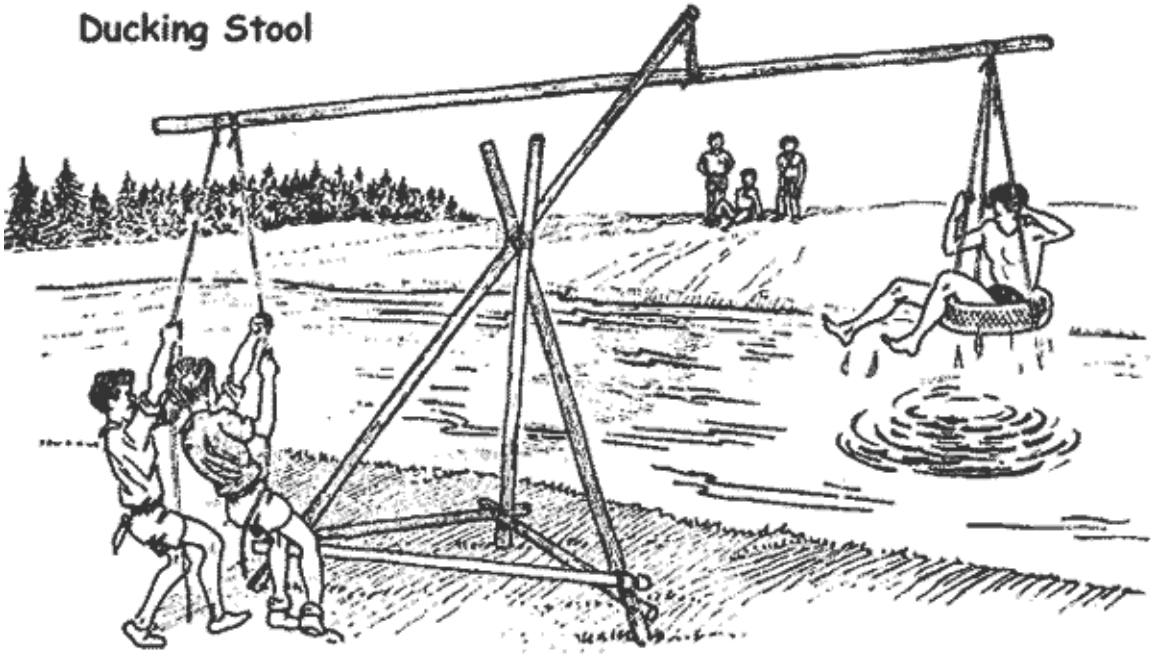
Wash Basin



Kim's Gym



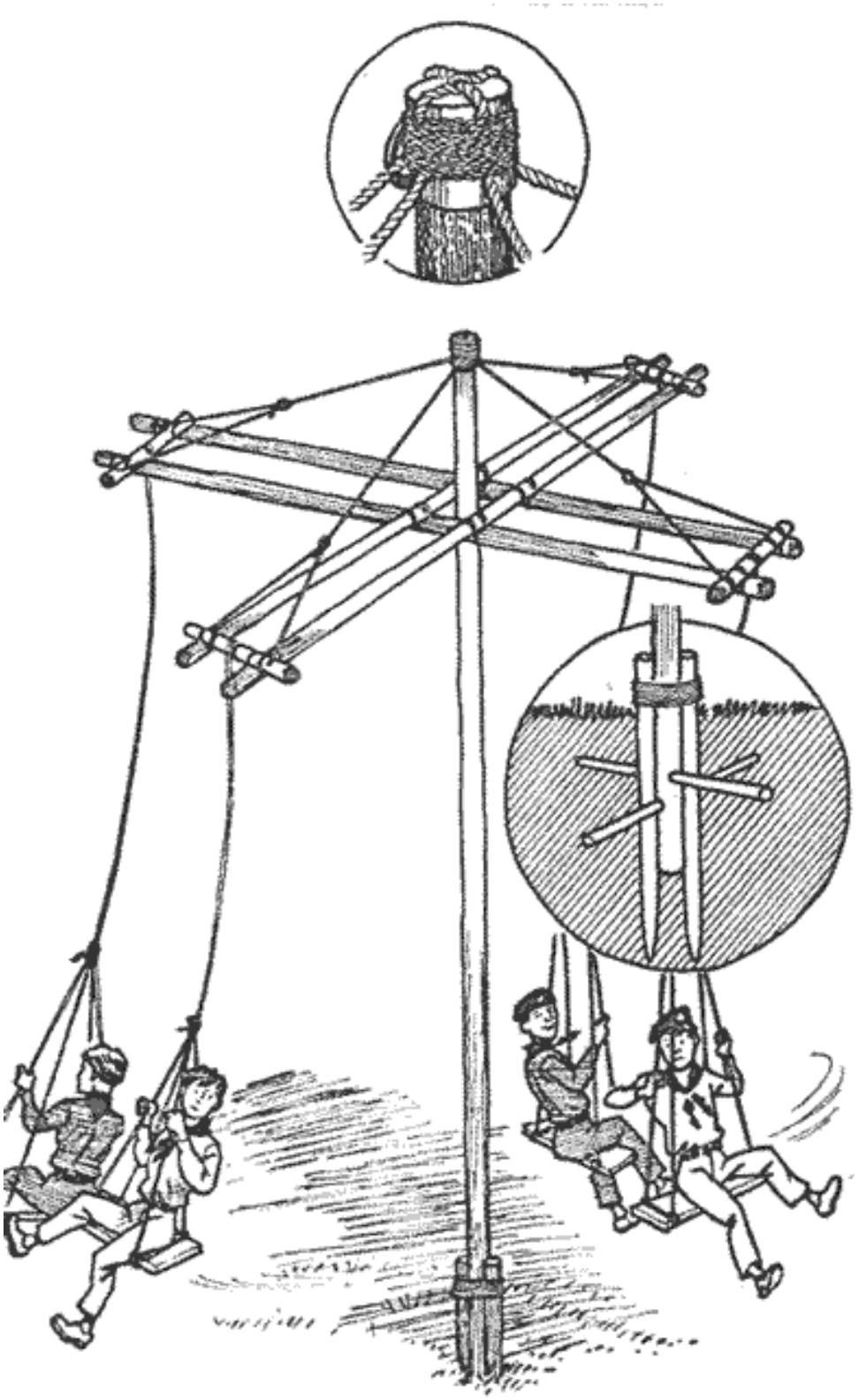
Ducking Stool



Troop Discipline?



Cambridge Merry-Go-Round



Cambridge Merry-Go-Round