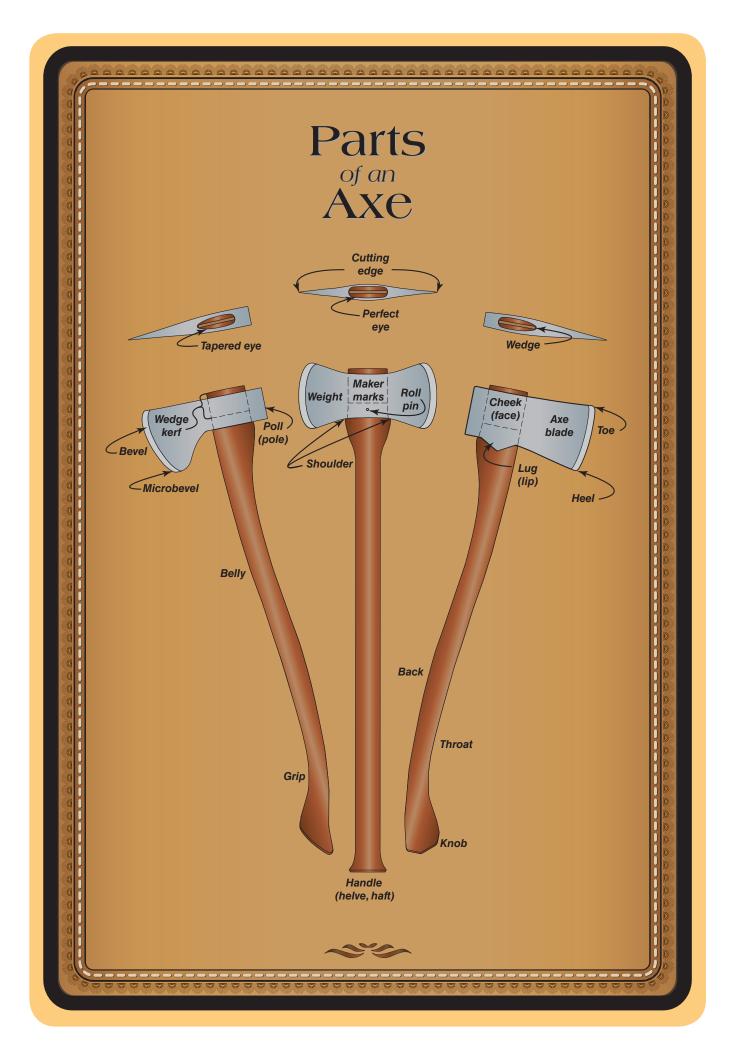
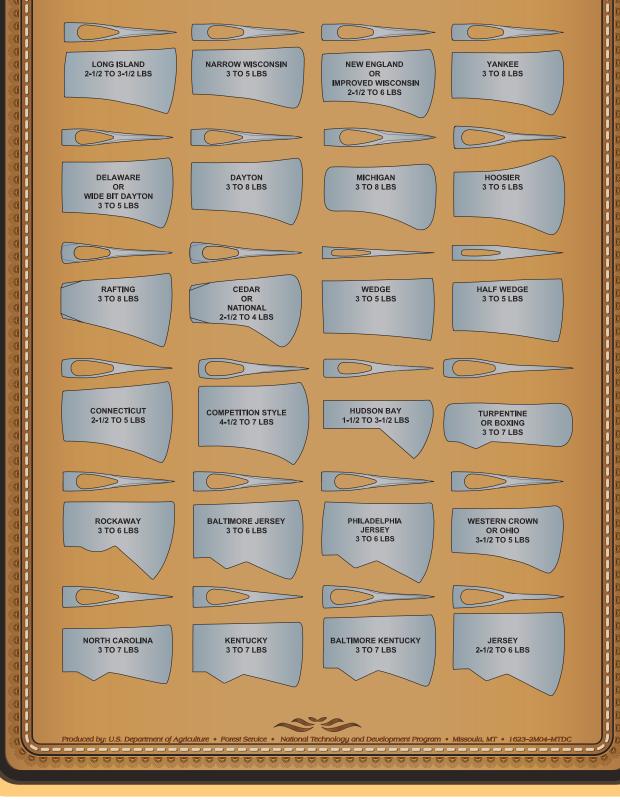
Appendix A-Full Page Ax Illustrations

Order full-size copies of the illustrations included in this appendix by emailing the National Technology and Development Program at wo_mtdc_pubs@fs.fed.us or by calling 406–329–3978.

- Parts of an Axe
- Common Single-Bit Axe Head Patterns
- Common Double-Bit Axe Head Patterns
- Axe Handles



Common Single-Bit Axe Head Patterns

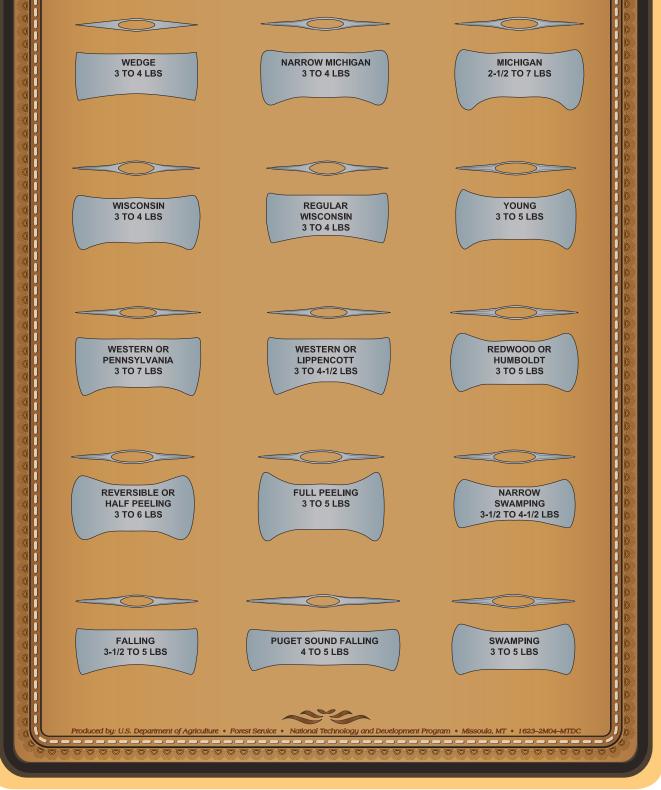


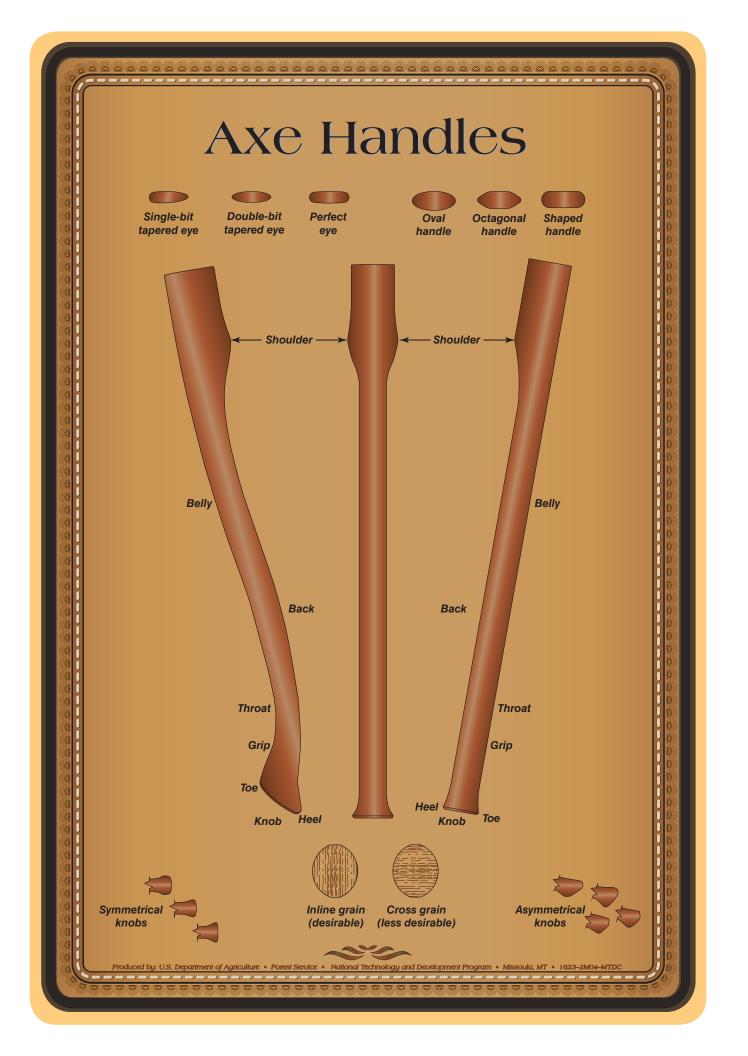


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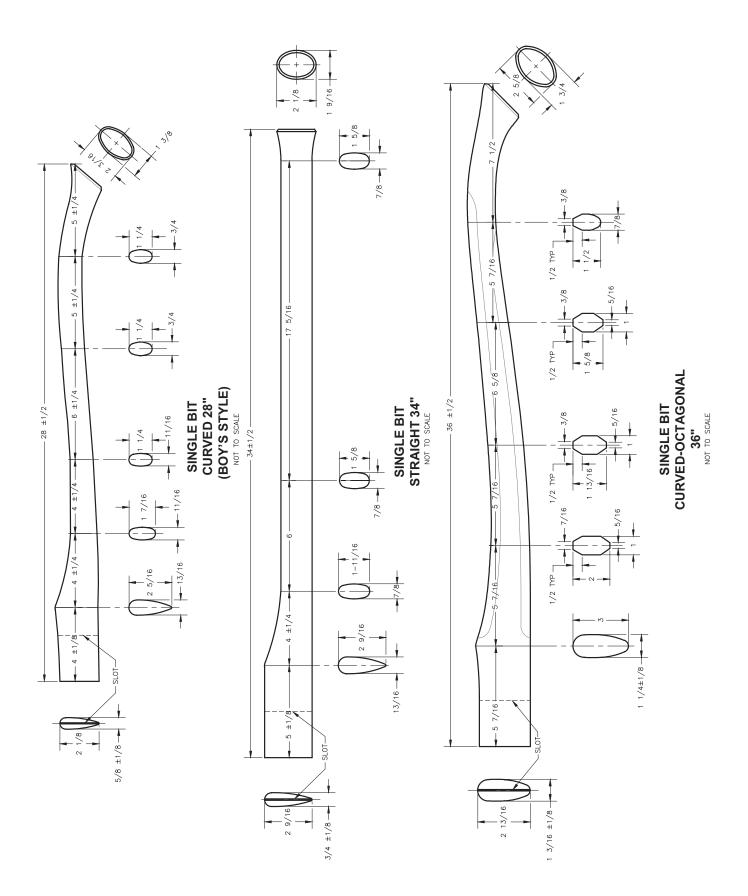
Appendix A—Full Page Ax Illustrations

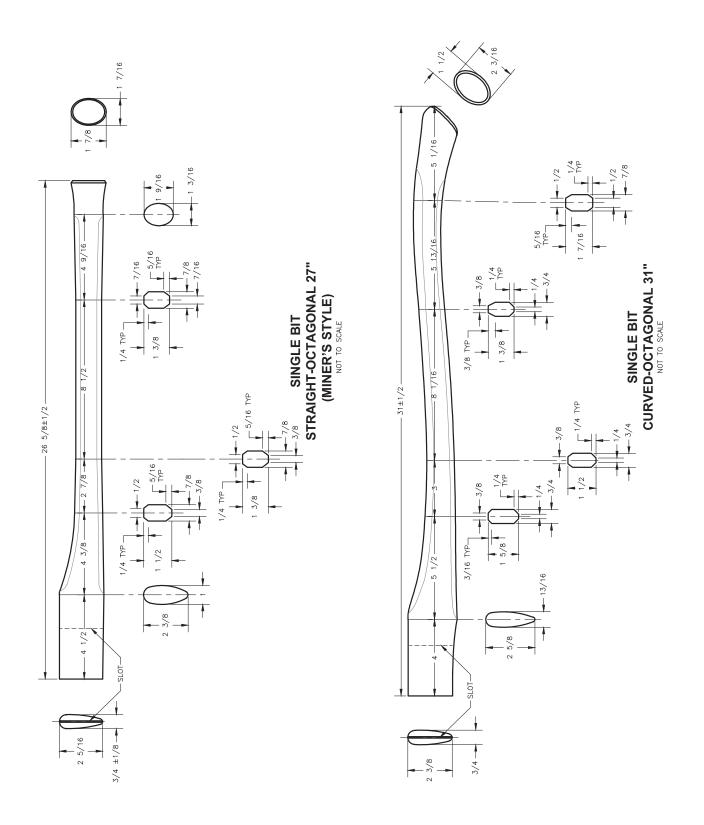
Appendix B-Technical Drawings

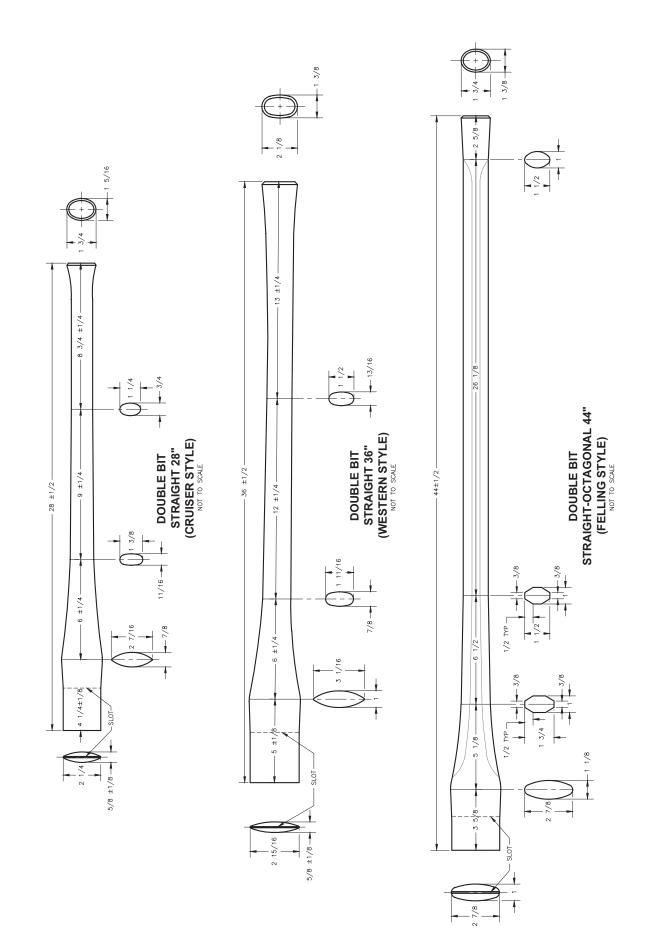
- Handles
 - Single Bit Curved 28" (Boy's Style)
 - Single Bit Straight 34"
 - Single Bit Curved-Octagonal 36"
 - Single Bit Straight-Octagonal 27" (Miner's Style)

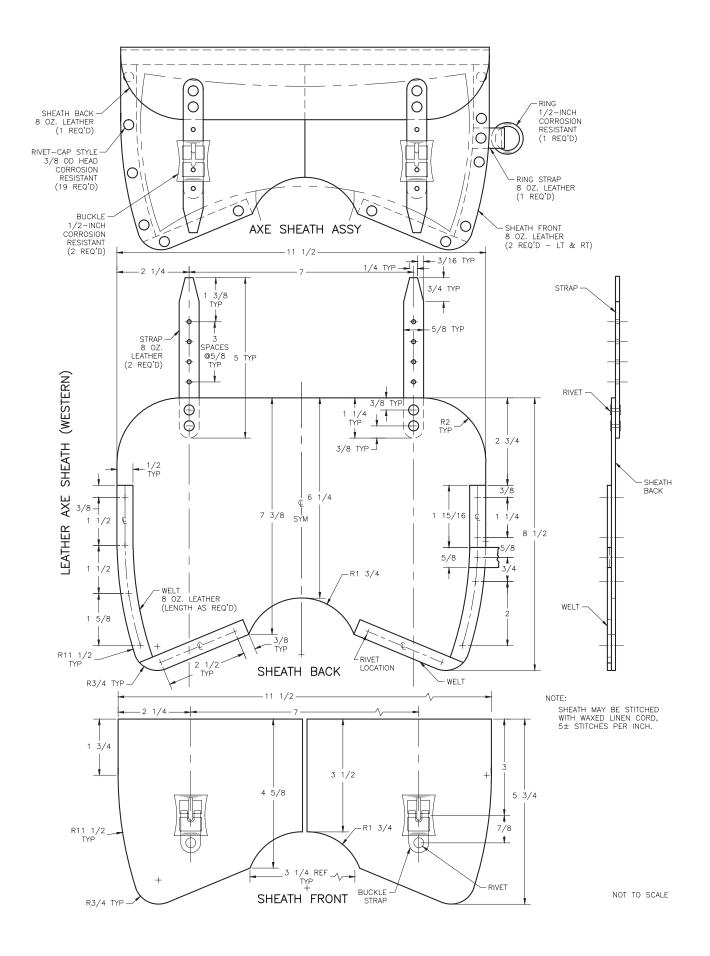
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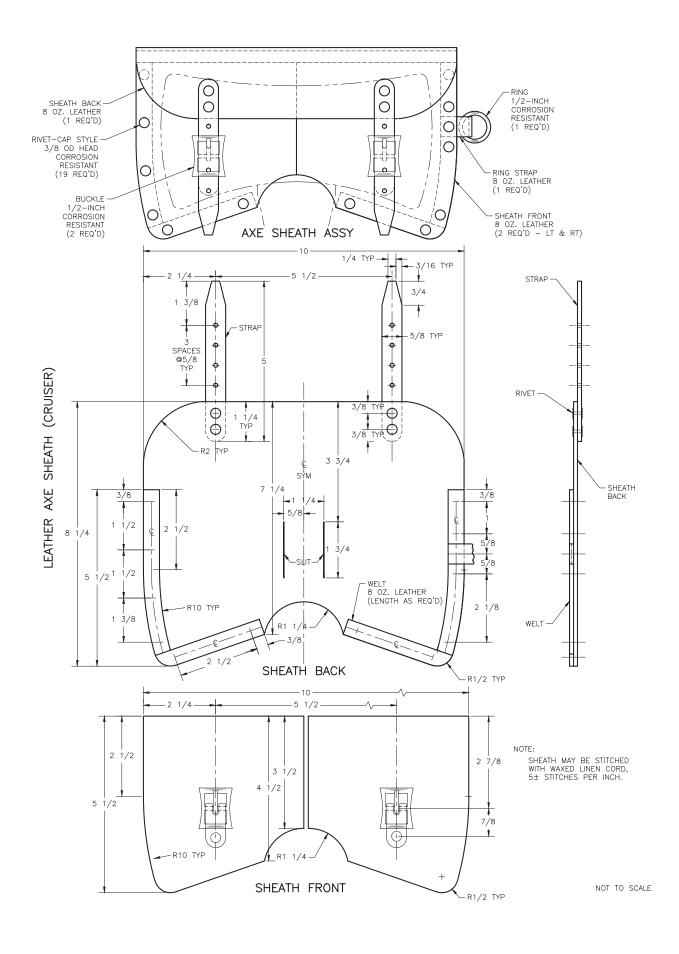
- Single Bit Curved-Octagonal 31"
- Double Bit Straight 28" (Cruiser Style)
- Double Bit Straight 36" (Western Style)
- Double Bit Straight-Octagonal 44" (Felling Style)
- Sheaths
 - Leather Axe Sheath (Western)
 - Leather Axe Sheath (Cruiser)
 - Leather Axe Sheath (Boys)
 - Leather Sheath (Pulaski)
- Handle Jigs
 - Axe Handle Jig Assembly
 - Axe Handle Removing Jig (Steel)
 - Axe Handle Removing Jig (Primitive)
- Drift Pin Assemblies
 - Single Bit Axe Drift Pin Assembly
 - Double Bit Axe Drift Pin Assembly
 - Single Bit Boys or Camp Axe Drift Pin Assembly
 - Double Bit Cruiser Axe Drift Pin Assembly
- Gauges
 - Handtools Sharpening Gauge
 - Axe Sharpening Gauge

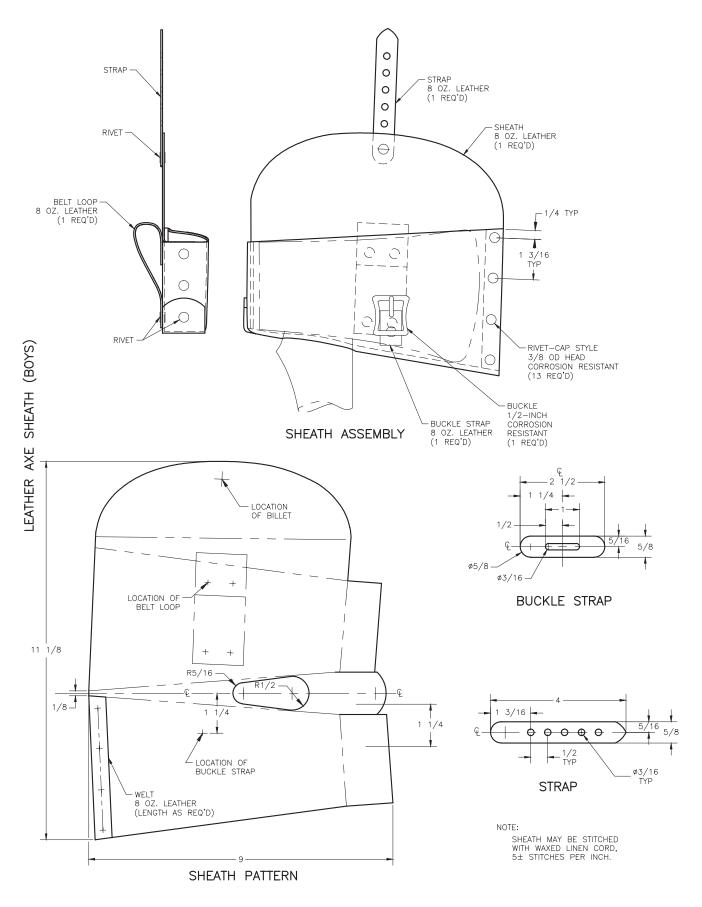




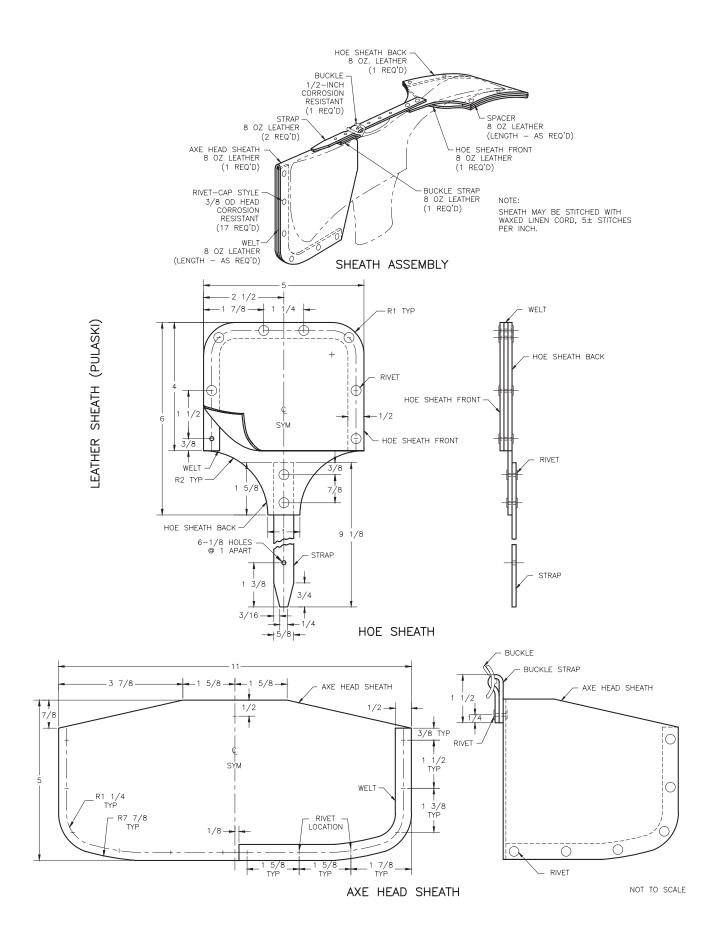


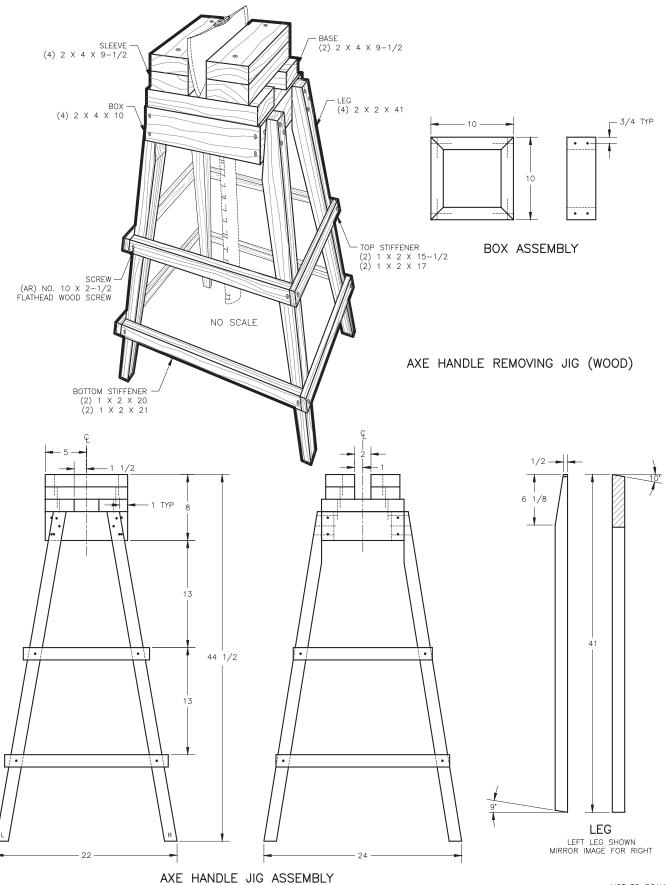




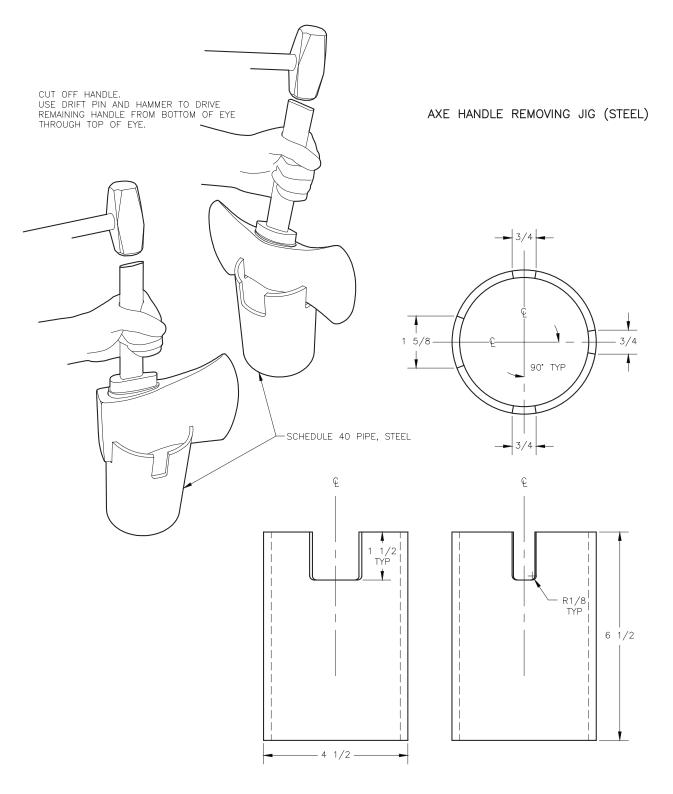


NOT TO SCALE



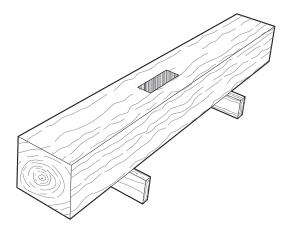


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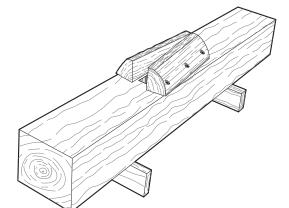


NOT TO SCALE

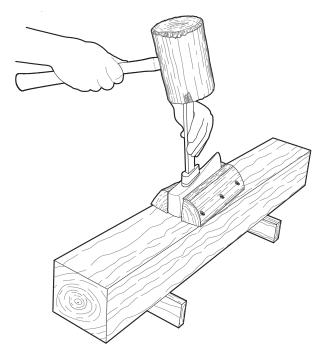
AXE HANDLE REMOVING JIG (PRIMATIVE)



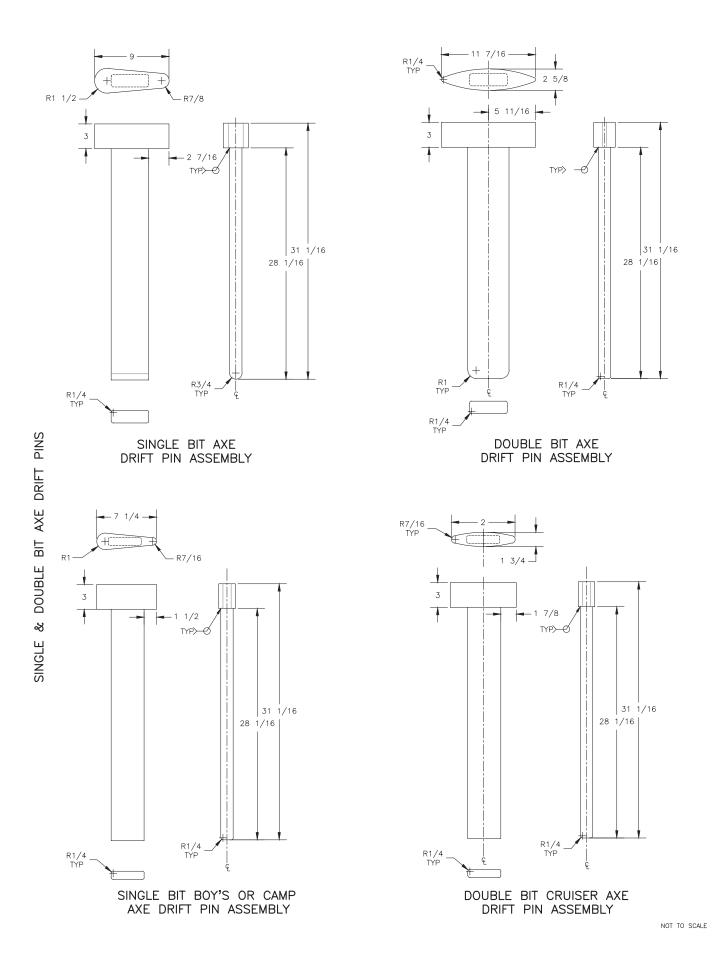
DRILL $1-1/2 \times 3$ INCH HOLE THROUGH 8 X 8 POST.

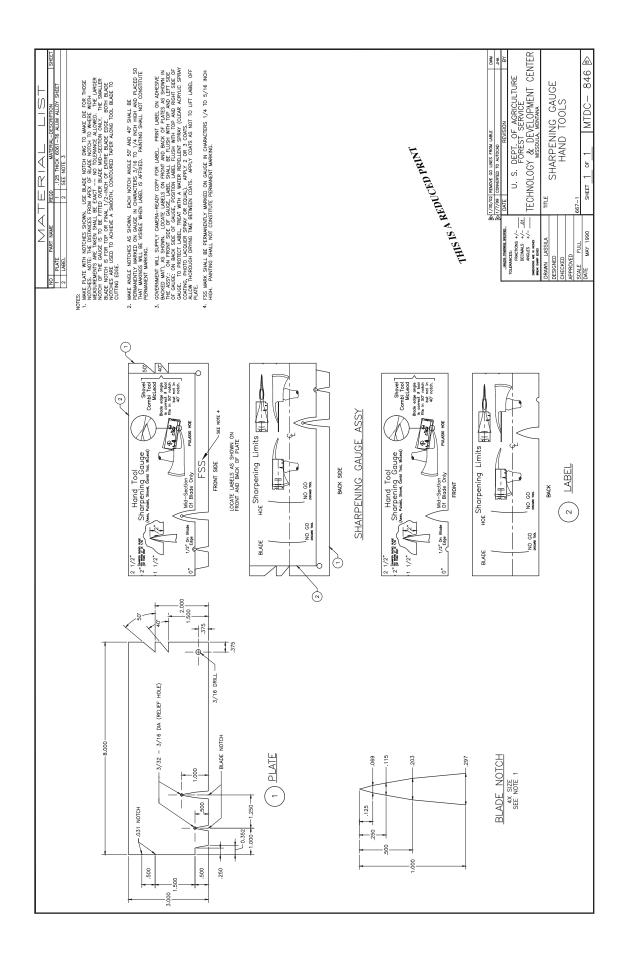


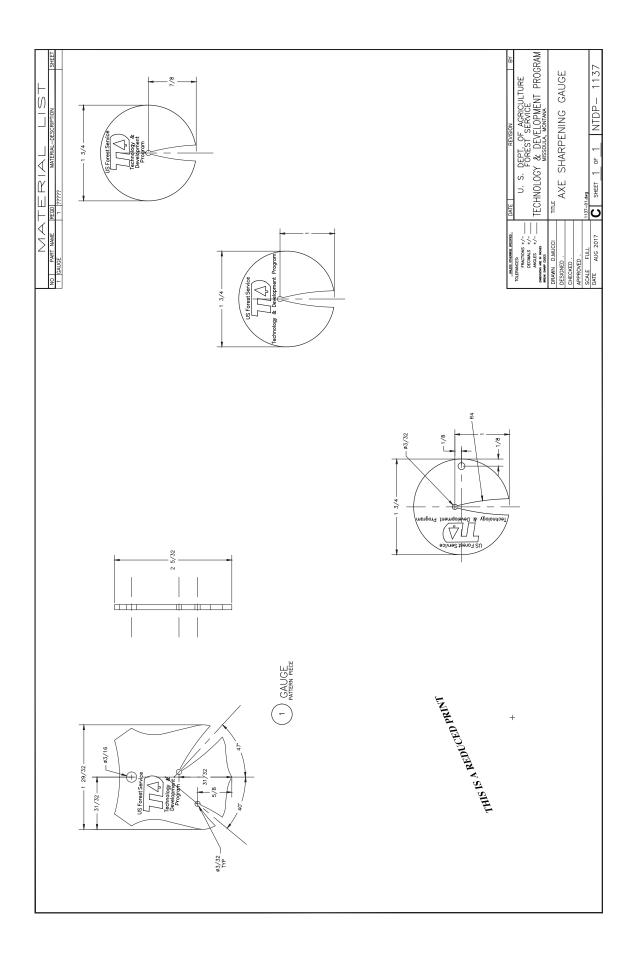
WOOD GUIDES CAN BE SCREWED INTO POST AT AN ANGLE TO HOLD AXE HEAD SECURE.



CUT OFF HANDLE. USE DRIFT PIN AND HAMMER TO DRIVE REMAINING HANDLE FROM BOTTOM OF EYE THROUGH TOP OF EYE.







About the Author

Bob Beckley is a project leader and public affairs specialist for the Forest Service National Technology and Development Program (NTDP). He transferred to the Missoula Technology and Development Center from the Missoula Smokejumper Base in 1991. Along with his public affairs work, Beckley's primary project work for NTDP includes traditional skills, blasting and explosives, and safety. He is recognized by his peers both inside and outside the Forest Service as a traditional skills expert.

About NTDP

The U.S. Department of Agriculture, Forest Service, National Technology and Development Program, provides Forest Service employees and partners with practical, sciencebased solutions to resource management challenges. We evaluate, design, and develop new technologies, products, and systems to solve problems and deliver solutions.



The author with a mule from the Lolo National Forest Ninemile packstring.

Contact Information

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Contact the National Technology & Development Program (NTDP) for additional technical information:

USDA Forest Service National Technology & Development Program Phone: 406–329–3978 or 909–599–1267 Email: wo_mtdc_pubs@usda.gov

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Library Card

Beckley, B. 2020. One moving part: the Forest Service ax manual. 1823–2812P –NTDP. Missoula, MT: U.S. Department of Agriculture, Forest Service, National Technology and Development Program. 234 p.

This manual provides information about different types of axes and their historic and current usage in the U.S. Department of Agriculture, Forest Service. Subjects covered include the anatomy of an ax, types of axes and related tools, selecting the right ax for you, the art of filing, sharpening an ax head, restoring or replacing an ax handle, using an ax, maintaining an ax, and purchasing an ax. The manual also includes a list of resources and information about ax manufacturers and suppliers.

Keywords: adzes, ax, axes, crosscut saws, double-bit axes, felling, handtools, hand tools, heritage, logging, lumberjacks, primitive skills, primitive tools, pulaskis, single-bit axes, survival skills, traditional skills, traditional tools, trails, two-man saw, wilderness