

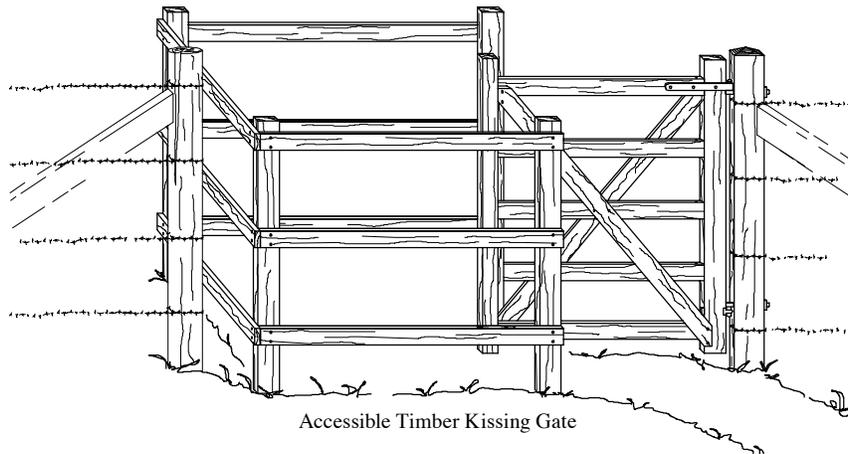


Accessible Gates for Trails and Roads

James "Scott" Groenier, Project Leader

The Missoula Technology and Development Center (MTDC) has reviewed available gate designs from around the world that allow wheelchair access, but restrict all-terrain vehicles (ATVs), motorcycles, and mountain bikes. We also searched for an existing gate or gate design that would allow access by wheelchairs and horses, but keep out ATVs and motorcycles.

When the Forest Service installs a gate, berm, or other type of device to restrict motor vehicles on a road or trail, but encourages foot travel beyond the restriction, a passage 32 inches wide must be provided for someone using a wheelchair (Section 504 of the Rehabilitation Act of 1973).



Accessible Timber Kissing Gate

Highlights...

- When foot travel is encouraged past a gate blocking motorized access, the Forest Service must provide a 32-inch-wide passage for persons using wheelchairs.
- This tech tip includes drawings of gate designs that will block all-terrain vehicles and motorcycles, but will allow wheelchairs and, in some cases, horses to pass.

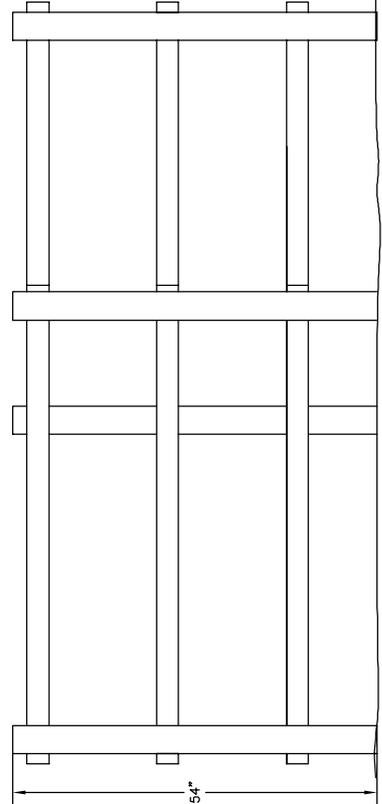
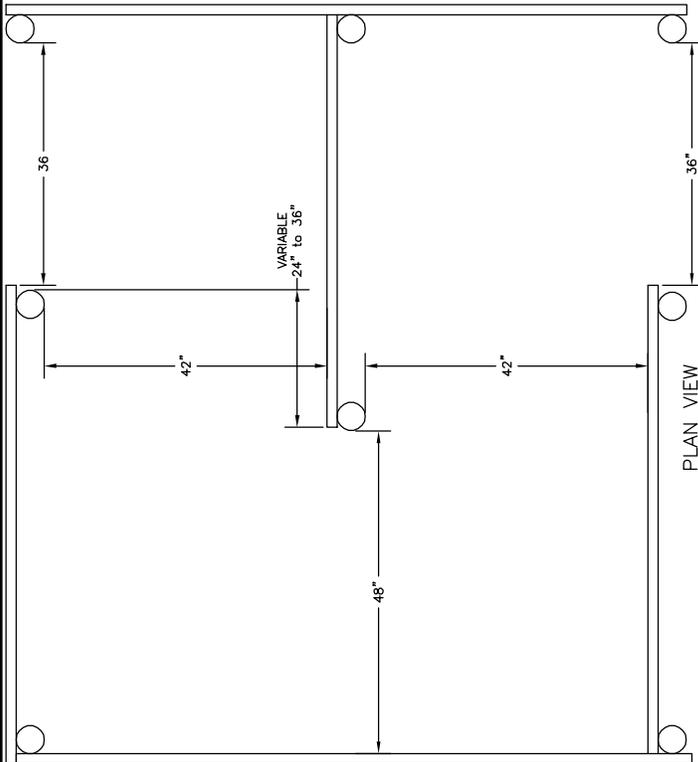
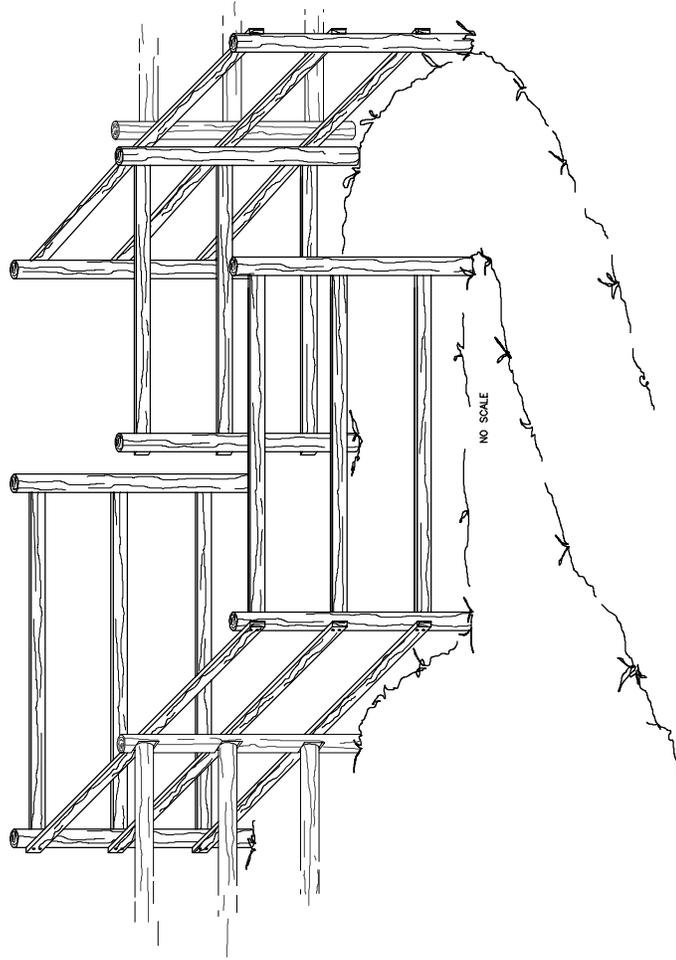
Wheelchair Accessible Gates

Web sites with designs that allow wheelchair access while restricting access by ATVs and motorcycles are listed near the end of this tech tip. The best Web site was that of Scottish Natural Heritage, an organization in the United Kingdom (UK). They have a series of drawings for gate designs that meet accessibility requirements in the UK.

The Scottish Natural Heritage gates are smaller than those required for accessibility in the United States. We increased the opening dimensions to meet Federal requirements in the United States. The timber kissing gate (figure 1) and the chicane (figure 2) have been modified to meet the Federal requirements. In addition, a modified kissing gate design was developed to be used for existing fence openings (figure 3).



THIS IS A REDUCED PRINT



NOTES:

- 1 INSIDE DIMENSIONS ARE MINIMUM CLEAR DISTANCES REQUIRED TO MEET ACCESSIBILITY STANDARDS.
- 2 THESE DRAWINGS ARE TYPICAL DRAWINGS AND MAY REQUIRE MINOR MODIFICATION FOR INSTALLATION.
- 3 SIGNAGE MAY BE CONSIDERED WHEN TRAIL IS CLOSED TO ATVs AND MOTORIZED TRAFFIC. SIGNS SHALL MEET REQUIREMENTS OF EM 7100-15, CHAPTER 6.
- 4 ADAPTED FROM THE SCOTTISH NATIONAL HERITAGE TRILBER WISSING GAIL.

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DATE NOV 2005			

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ELEVATION VIEW

PLAN VIEW

NO SCALE

CHICANE
FOR WHEELCHAIR ACCESSIBILITY
1005-01.dwg
SHEET 1 of 1
MTDC-1055

Figure 2—Accessible chicané drawing (MTDC-1055) as modified from a Scottish Natural Heritage design.

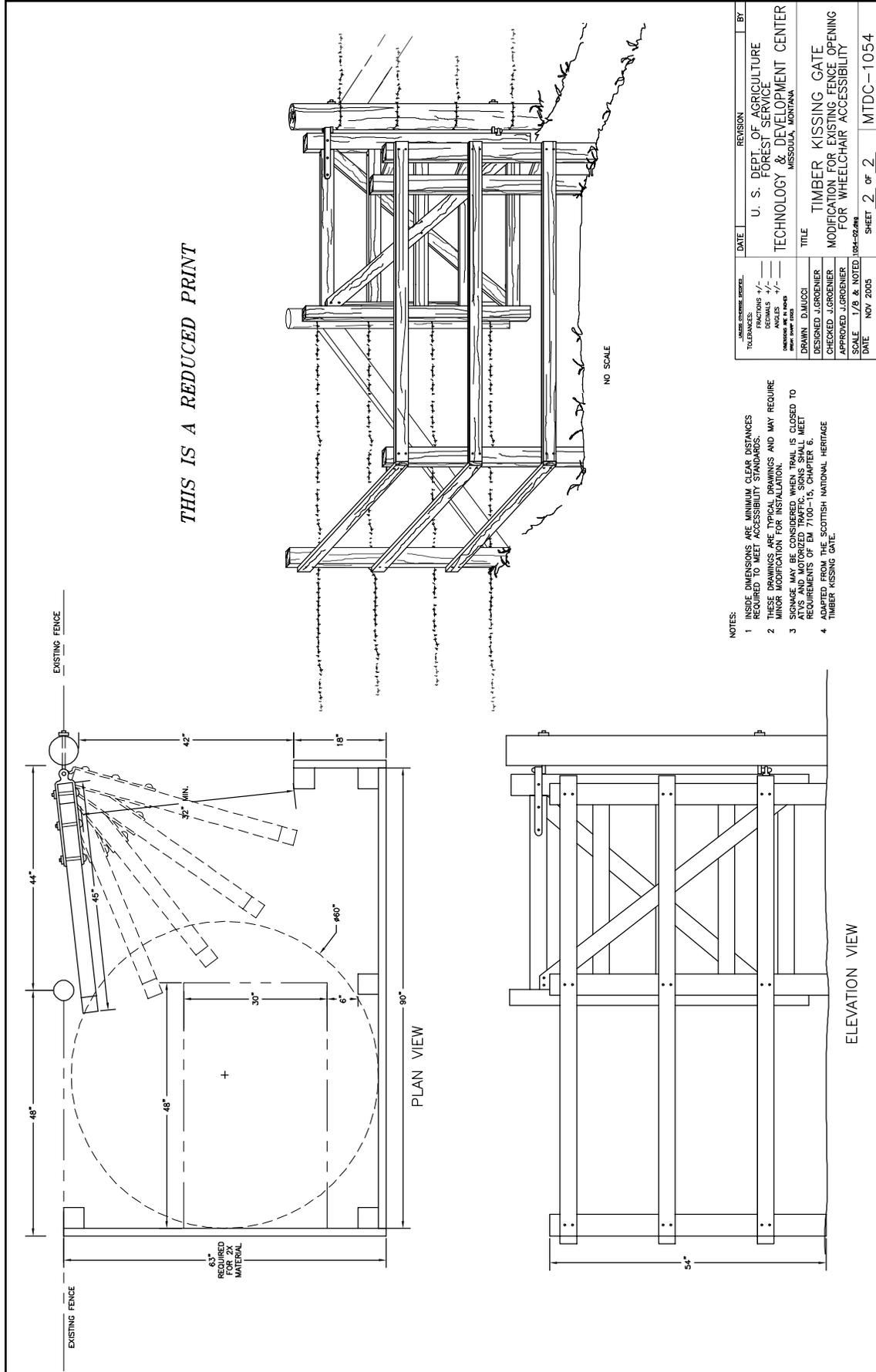


Figure 3—Accessible modified timber kissing gate drawing (MTDC-1054-02) for installation into existing gate openings.