



Figure 10—Detailed view of the camera-with-altitude unit using a paint pole rather than a monopod and hiking staffs.

camera and to the *video in* port on the miniature LCD viewfinder. Turn the camera on and set it to receive the wireless remote signal. Using the LCD viewfinder, determine the appropriate tilt angle for the camera and record the angle.

## Specifications for an Inexpensive Camera Elevation System

### Extendable fiberglass paint pole

- Adjustable length: 8 to 13 ft
- Cost: about \$35

### Paint roller with plastic threaded handle and 5/16-in outside diameter metal shank

- Cost: about \$4

### Male-to-female reducing standoff

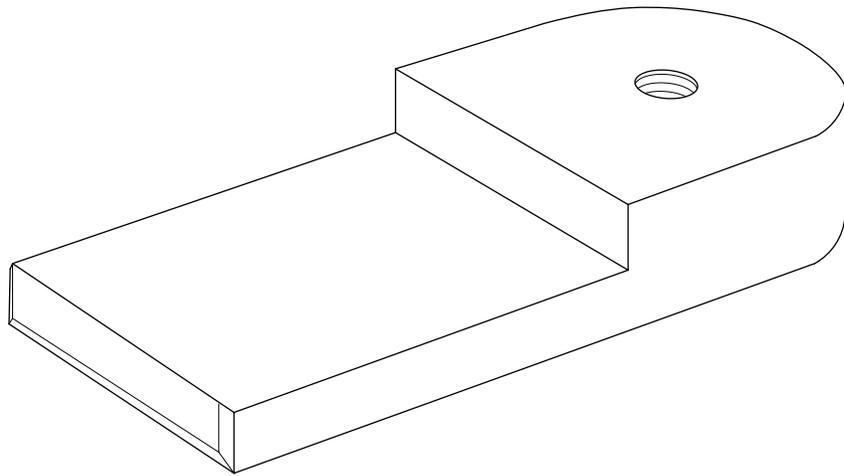
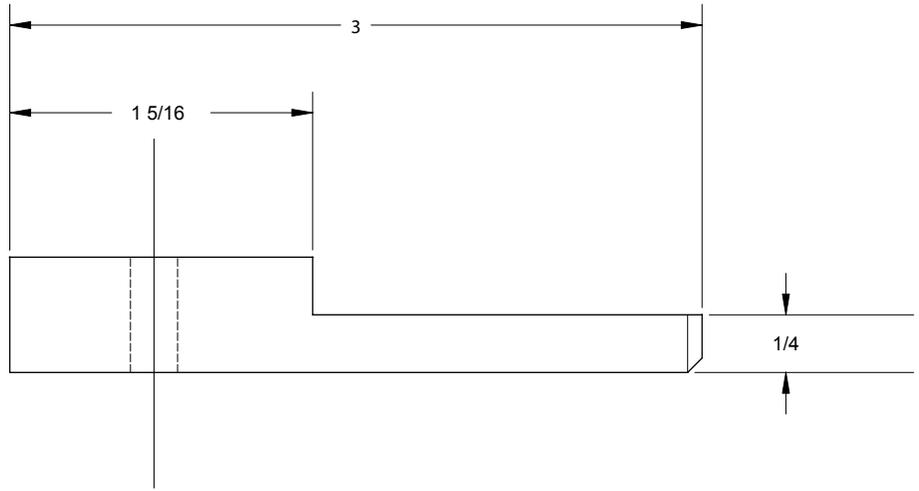
- $\frac{3}{8}$ -16 UNC with a  $\frac{5}{16}$ -18 UNC by 1-in-long, hex reducing standoff
- Item No. 94402A140
- Cost: about \$15
- Available from: McMaster-Carr at <http://www.mcmaster.com>

## Conclusions

Take photos—check your exposures—stay level—keep accurate records—have fun!!

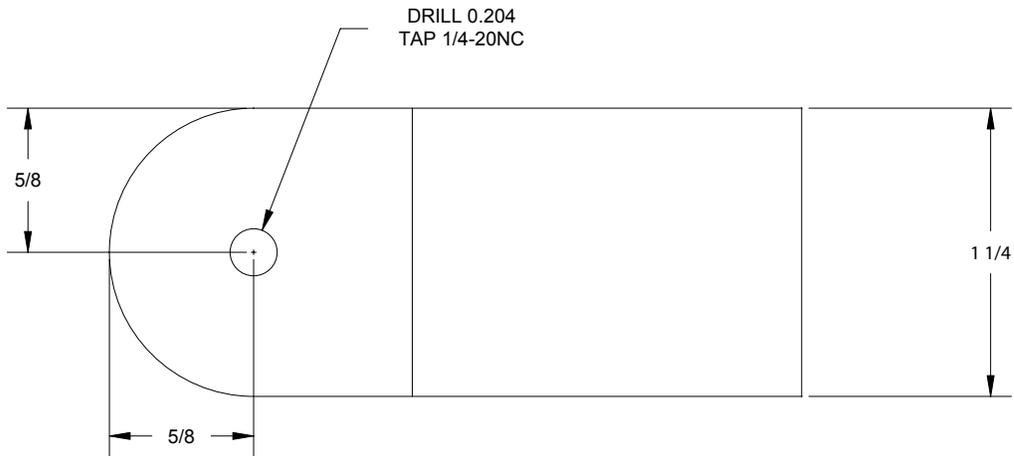
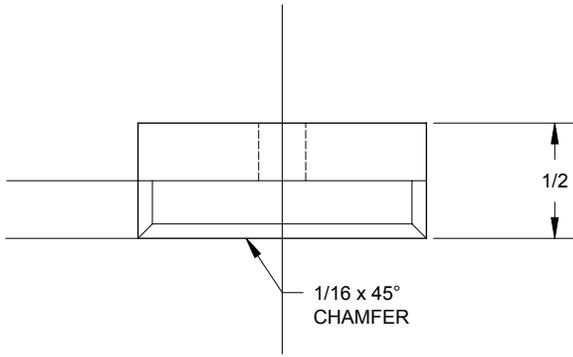
## Acknowledgments

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## MATERIAL LIST

NO	PART NAME	REQD	MATERIAL-DESCRIPTION
1	TAB	1	1/2-INCH FLAT, 2024 ALUMINUM



UNLESS OTHERWISE SPECIFIED TOLERANCES: FRACTIONS +/- _____ DECIMALS +/- _____ ANGLES +/- _____ DIMENSIONS ARE IN INCHES BREAK SHARP EDGES	DATE	REVISION	BY
DRAWN D.MUCCI DESIGNED T.KUHN CHECKED M.DAVIES APPROVED M.DAVIES SCALE FULL DATE DEC 2003	U. S. DEPT. OF AGRICULTURE FOREST SERVICE TECHNOLOGY & DEVELOPMENT CENTER MISSOULA, MONTANA		
		TITLE <b>CAMERA WITH ALTITUDE          THREADED CONNECTOR</b>	
		1028-01.dwg	
		SHEET 1 OF 1	MTDC-1028

## About the Author

**Mary Ann Davies** received a bachelor's degree in mechanical engineering with a minor in industrial and management engineering from Montana State University in 1988. She worked in the Pacific Northwest Region as a facility engineer and as

a tramway engineer Mary Ann has worked in fire management as a crewmember and as a crewboss. She worked for 5 years with the Rocky Mountain Research Station in the fire chemistry and fire behavior groups before coming to MTDC in 1999.

## Library Card

Davies, Mary Ann. Camera with Altitude for Wilderness Site Monitoring. Tech. Rep. 0423-2301-MTDC. Missoula, MT: U.S. Department of Agriculture, Forest Service, Missoula Technology and Development Center. 10 p.

Describes two systems that raise a camera above the ground to get a better view of site conditions. When photographs are taken from a point above the site, the view can encompass more. Wilderness managers use photographs to document changes in site conditions

over a period of years. Either of the two systems described in this tech tip can help managers take photographs for site monitoring.

Simple directions for establishing a photopoint and using an elevated camera are provided. Specifications for the two systems also are included.

Keywords: digital cameras, hiking staffs, photographs, photopoints, remote shutter releases, wilderness management

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