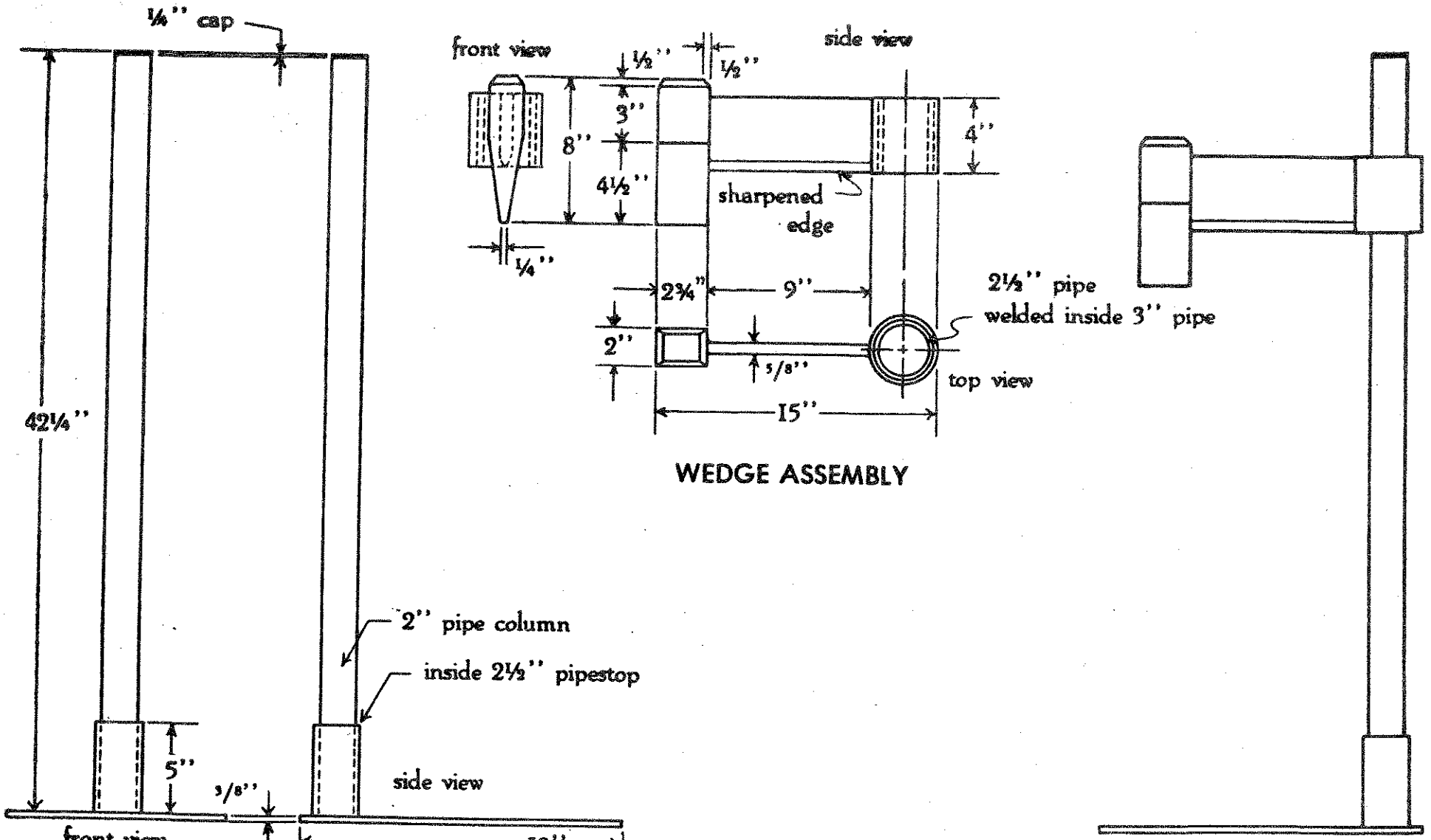

BASE ASSEMBLY

WEDGE ASSEMBLY

LOG SPLITTER
Scale; 1 1/8" = 1"
Drawn by - DSS
Plan Number AG-408-P
COURTESY-Troy Vo-A Dept.

BILL OF MATERIALS

No. of Pieces	Material	Dimensions	Part Name
1	Sheet metal	3/8" x 12" x 18"	Base
1	Pipe	2" x 42"	Column
1	Pipe	2 1/2" x 5"	Pipe stop
1	Pipe	2 1/2" x 4"	Inside collar
1	Pipe	3" x 4"	Outside collar
1	Flat iron	5/8" x 4" x 9"	Wedge bracket
1	Wedge	2" x 2 3/4" x 8"	Wedge
1	Flat iron	1/4" x 2" dia.	Cap on main column

Note: Many types of splitters can be built depending on material available and personal preference. Some people prefer using I-beam instead of pipe for the main column. Different dimensions can be used depending on the size of wood you want to split.

CONSTRUCTION PROCEDURE

BASE ASSEMBLY:

1. Cut one piece of 3/8" sheet metal 12" x 18". Cut a 7 1/2" radius on one end which will be the front.
2. Cut one piece of 2" pipe 42" long and one piece of 2 1/2" pipe 5" long. Place the long piece inside the short one and weld together with them flush on the bottom; also weld around the top of the short pipe.
3. Place the pipe assembly perpendicular to the 3/8" sheet metal, 2" from the back and centered. Square and weld.
4. Using 1/4" flat metal, cut a circular piece with a 2" diameter and weld to the top of the pipe.

WEDGE ASSEMBLY:

5. Cut one piece of 2 1/2" pipe 4" long and one piece of 3" pipe 4" long. Place the 2 1/2" pipe inside the 3" pipe and weld solid on top and bottom.
6. Cut a piece of 5/8" x 4" flat iron 9" long and sharpen the bottom side. Weld this piece to the 4" pipe.
7. The wedge may be purchased or it can be made if the builder has a power saw or torch. Notice measurements on drawings if you decide to make the wedge. If a commercial wedge is used, it should be welded with low hydrogen rods and cooled slowly. Weld the wedge to the 5/8" flat iron.
8. Remove all slag and clean properly with a grease and oil remover if needed. Prime with a rust-inhibiting paint.
9. After primer coat of paint has dried, paint with a suitable metal enamel paint.

AVAILABLE FROM: Instructional Materials Laboratory, 10 Industrial Education Building, University of Missouri-Columbia, Columbia, Missouri 65201.