

— Instruction Manual —
BISON CONVERTIBLE GOOSENECK FOOTBALL
1 PAIR OF GOAL POSTS



PARTS LIST					
Item	Qty	Description	Item	Qty	Description
A	2	GOOSENECK POLE	I	4	UPRIGHTS
B	2	BAND CLAMP	J	4	ADJUSTABLE END CAPS
C	2	5/16" X 2" CARRIAGE BOLTS	K	4	CROSSBAR WASHER PLATE
D	2	"T" ADAPTER	L	8	5/8" X 1 1/2" HEX BOLTS
E	2	CROSSBAR	M	12	5/8" LOCK WASHERS
F	1	1/4" ALLEN WRENCH	N	2	5/16" HEX NUTS
G	8	1/2" X 1/2" SET SCREWS	O	4	5/8" x 1" HEX BOLT
H	16	1/2" X 1" FULL THREADED HEX BOLTS	P	8	3/8" x 1" HEX BOLT

- ◆ Inspect all contents prior to installation. Report any missing parts to dealer immediately.
 - ◆ Read all instructions before proceeding.
1. You will need to locate each gooseneck pole so that it is centered on the playing field. See chart for the distance behind the end line to locate the pole for each model. Dig a 24" diameter hole that is a minimum of 48" deep at each of these locations, it is recommended to bell out the bottom of the hole to 36" to strengthen the footing. If you are using Bison ground sleeves refer to those instructions for the proper hole depth and diameter. See Figure 1.
 2. Make sure that you have a broomstick or similar pole to vibrate air pockets and settle the concrete. The 24" diameter by 48" deep hole will require approximately 12 cubic ft. of 3000 PSI concrete (20 to 24 60# bags of premix concrete). You will need to adjust the amount depending on the size of hole you prepared. Have the proper amount of concrete before you start to ensure proper strength of the footing.

CAUTION!! IF THE GOOSENECK IS INCORRECTLY INSTALLED, THE POLE WILL BE IMPOSSIBLE TO ADJUST

3. Before mixing concrete you will need to prepare bracing and plan orientation of gooseneck upright. The top of the gooseneck pole, where the crossbar attaches, will need to be 10' from playing surface. Use a 2 x 4 that is cut to an appropriate length and brace the bottom of the vertical portion of the pole at the very end. Additional bracing may be required to hold the pole in its proper position. Orient the top (horizontal) portion of the gooseneck pole parallel to the side lines and perpendicular to the end line. See Figure 2.

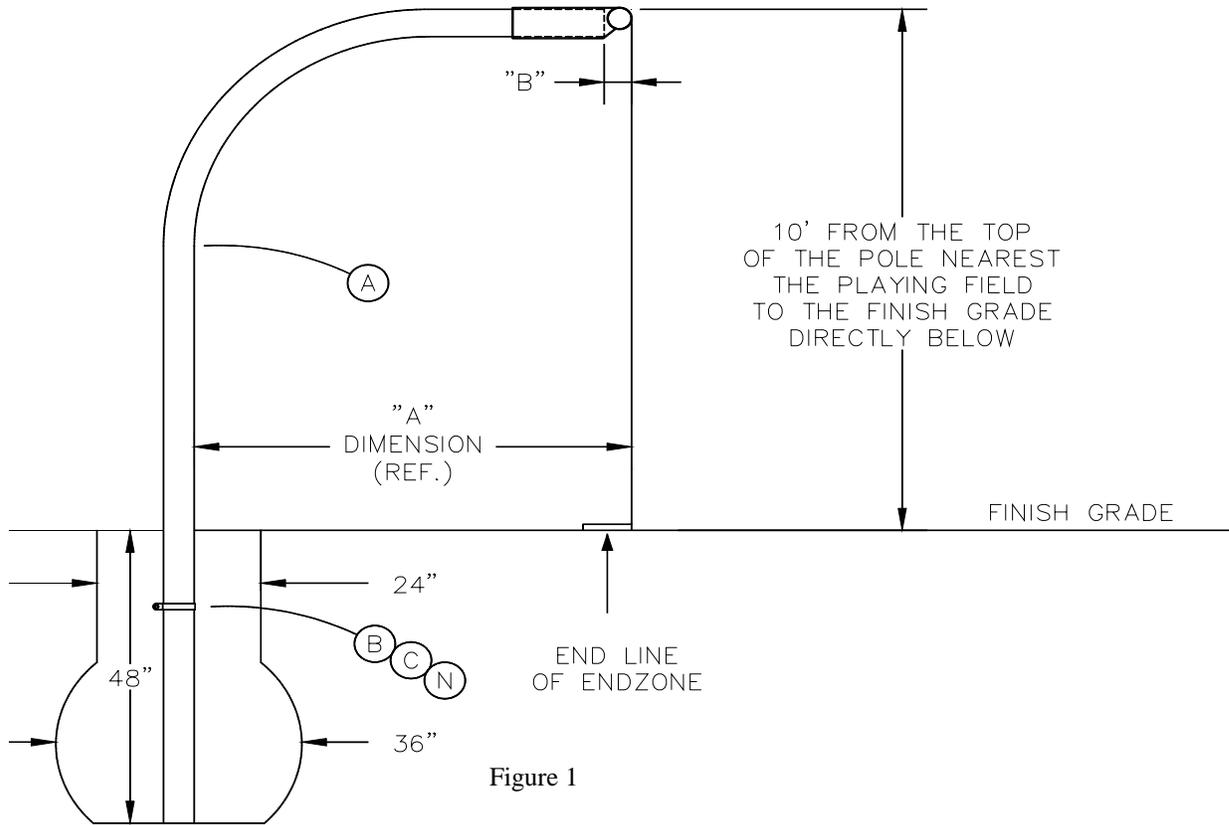


Figure 1

	FB45HS	FB45CG	FB55HS	FB55CG	FB58HS	FB58CG
DIMENSION "A"	65 1/4"	65 1/4"	73 1/4"	73 1/4"	97 1/4"	97 1/4"
DIMENSION "B"	5 1/4"	5 1/4"	5 1/4"	5 1/4"	5 1/4"	5 1/4"
UPRIGHT HEIGHTS	20'	20'	20'	20'	20'	20'

4. Attach the *Band Clamp* (B) with *5/16" X 2" Carriage Bolt* (C) and *5/16" Hex Nut* (N) approximately 2 feet from the bottom end of the *Gooseneck Pole* (A) (below ground level). Mix concrete according to the directions on the bag. It is advantageous to have the mixture "wet". This will increase your working time and allow batches to mix in the hole. Pour the hole to just below ground level. Insert pole into concrete while vibrating concrete to allow it to surround the pole completely. Remember to brace gooseneck pole to maintain 10' height and field orientation as previously described. See Figure 1.
5. When cured the "B" dimension (*the front of the pole to the inside of the end line*) shown on the chart must be maintained to insure that the goal post crossbar is properly placed in relation to the goal end line.
6. Clean excess concrete from pole. Check and re-check that pole is level and the 10' height to the top of the pole. Secure all the bracing, and allow the footing to cure fully according to the bag instruction. Only after the concrete is cured should you proceed.
7. The instructions for final assembly of your goal are written on the assumption that no lift truck or similar hoisting equipment is available. Please use powered hoisting equipment if available and modify your assembly process accordingly.

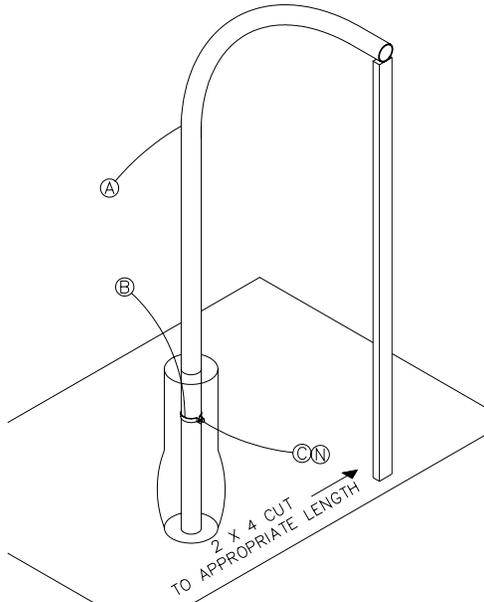


Figure 2

8. Remove the $5/8'' \times 1''$ Hex Bolts (O), and $5/8''$ Lock Washers (M) to remove both Adjustable End Caps (J). Slide "T" Adapter (D) onto Crossbar (E), and center on cross bar. Use caution not to damage the powder coated finish. Orient the "T" Adapter (D) in the center of the crossbar with the opening for the gooseneck pole 90° from the 2 drilled holes on the bottom of each end of the crossbar with the 2 threaded holes facing the Gooseneck Pole (A). The threaded crossbar holes on the "T" Adapter (D) should face up. Once you have the "T" Adapter (D) and Crossbar (E) positioned in the approximate location tighten the crossbar using $3/8'' \times 1''$ Hex Bolts (P). See Figure 3.

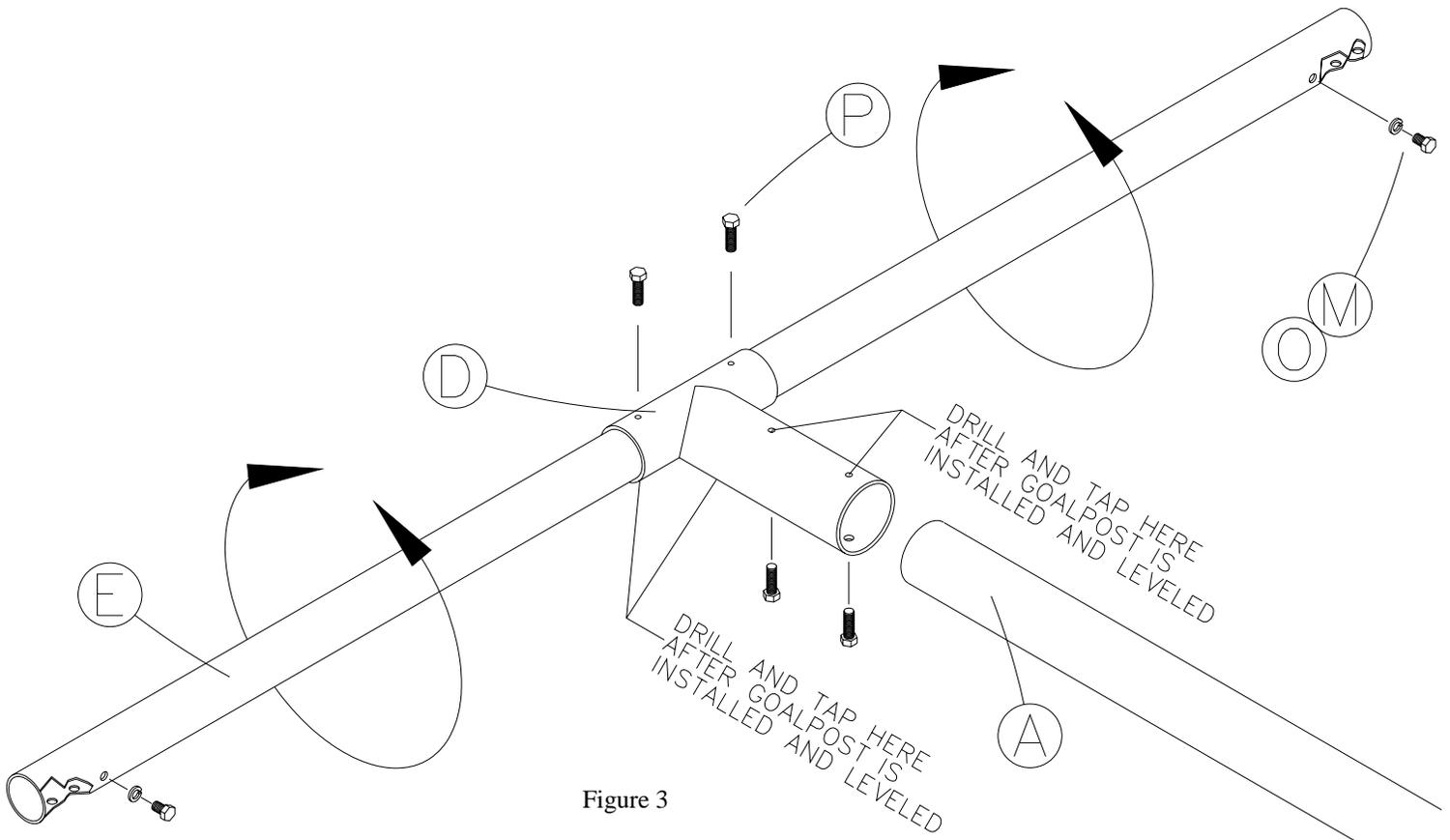


Figure 3

9. It is recommended to use 4 people with sufficient height step ladders to hoist "T" adapter and crossbar assembly onto the end of the Gooseneck Pole (A). Make sure the "T" Adapter (D) is on the pole as far as it can go. Level the Crossbar (E). Using the $3/8'' \times 1''$ Hex Bolts (P) tighten "T" adapter and crossbar assembly to the gooseneck pole. Make sure that the crossbar is level before hardware is tightened. See Figure 3.

NOTE: DO NOT DRILL AND TAP AT THIS TIME!!

10. Confirm that the *Crossbar* (E) is perfectly centered on your pole and playing surface, make any necessary adjustments now. Also, check that the two holes on each end are facing the ground.
11. Install the *Uprights* (I) into the *Adjustable End Caps* (J) using the $1/2'' \times 1/2''$ *Set Screws* (G). Make sure that the uprights are seated into the bottom of the pocket provided, then tighten set screws using $1/4''$ *Allen Wrench* (F). See Figure 4.
12. If you have wind directional streamers, Bison #FBWDS, please install them to the top of your uprights now. Please refer to the wind directional streamer instructions for installation.
13. Insert *Adjustable End Cap* (J) with *Upright* (I) attached into one end of *Crossbar* (E), leaving the top end of the upright resting on the ground. Make sure that the end cap is inserted completely into the *Crossbar* (E). Insert a pole or pipe that is at least $1\ 1/2''$ in diameter and $9\ 1/2'$ long into the bottom of the *Adjustable End Cap* (J) and rotate *Adjustable End Cap* (J) assembly around until uprights are positioned so you can see the threaded holes through the mounting holes in the *Crossbar* (E). Use the $5/8'' \times 1\ 1/2''$ *Hex Bolts* (L), $5/8''$ *Lock Washers* (M), and the *Crossbar Washer Plate* (K) to attach end cap assembly to the *Crossbar* (E), reinstall the $5/8'' \times 1''$ *Hex Bolts* (O), and $5/8''$ *Lock Washers* (M) in the back of the *Crossbar* (E) and tighten. This assembly process requires constant contact between the $1\ 1/2''$ pipe and the *Adjustable End Cap* (J), **DO NOT under any circumstances remove the $1\ 1/2''$ pipe until the $5/8'' \times 1\ 1/2''$ Hex Bolts (L) are installed.** In addition it is important to maintain full insertion of the *Adjustable End Cap* (J) to the *Crossbar* (E) during the rotation process. **DO NOT STAND DIRECTLY UNDER THE PLANE OF THE UPRIGHTS DURING ROTATION.** Repeat this process for the remaining upright assemblies. See Figures 4 & 5.

Warning!

This step is very important, please follow the instructions closely. Use patience and caution when drilling through the “T” *Adapter* (D) into the *Crossbar* (E) and *Gooseneck Pole* (A). Any variance and/or out of level will not be correctable once you drill and tap the $1/2''$ holes and install the hardware.

14. When you are confident that everything is level, plum, and that the uprights are parallel to each other, double check to make sure that all nuts and bolts are completely tight.
15. Using a sharp $7/16''$ drill bit, drill through the four pre-drilled pilot holes in the “T” *Adapter* (D) and into the *Crossbar* (E) and *Gooseneck Pole* (A). Use a $1/2''$ -13 tap to thread the holes. These holes are indicated by removable labels. See Figures 3 & 5.
16. Use the $1/2'' \times 1''$ *Hex Bolts* (H) to attach the *Crossbar* (E) and the *Gooseneck Pole* (A) to the “T” adapter assembly. See Figure 3.

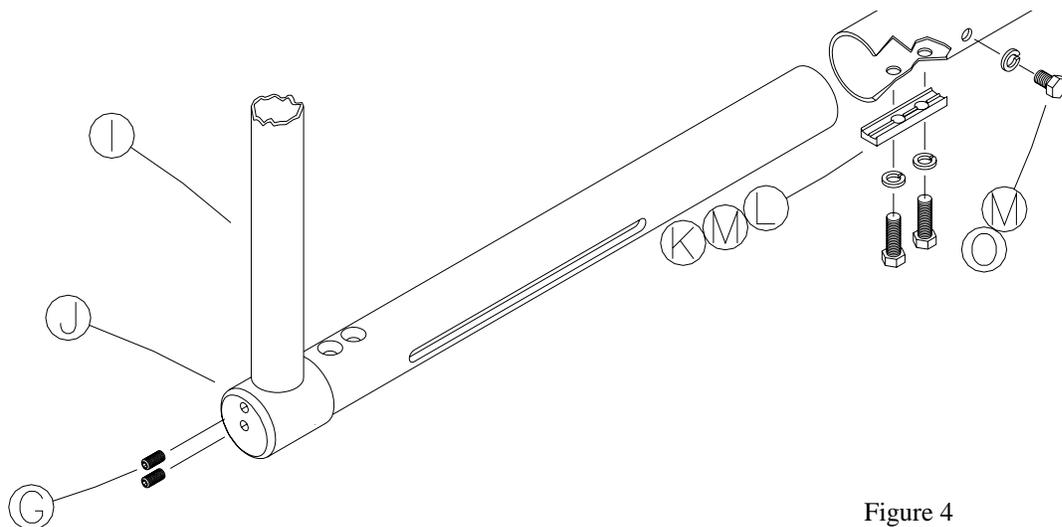


Figure 4

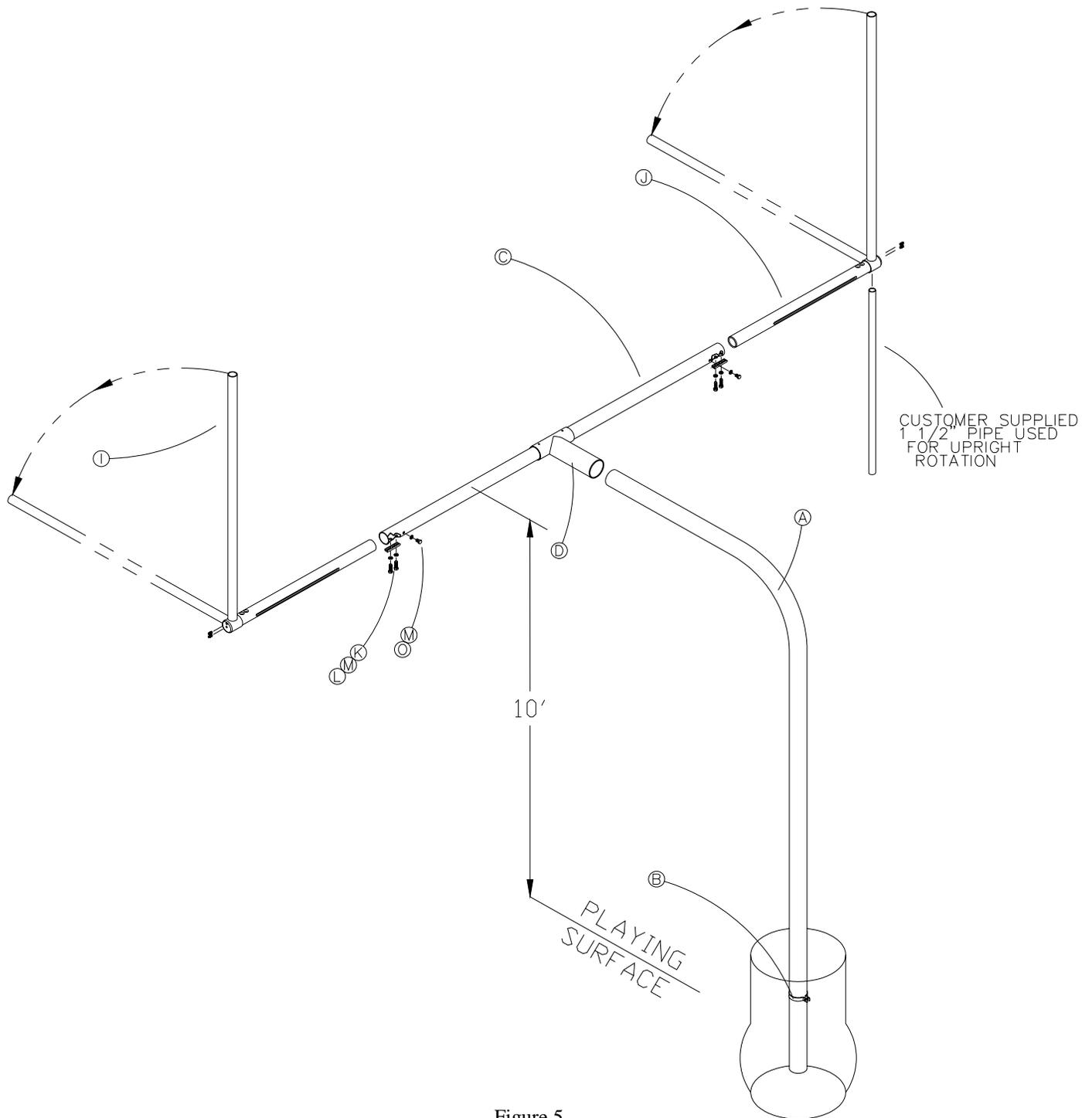


Figure 5

17. Remove the previously installed $3/8" \times 1"$ Hex Bolts (P), and drill out the holes using the $7/16"$ drill bit going through the "T" Adapter (D) and one wall in the Gooseneck Pole (A) and the Crossbar (E). Using a $1/2"-13$ tap, thread the holes.
18. Using the $1/2" \times 1"$ Hex Bolts (H) secure the Crossbar (E) and Gooseneck Pole (A) to the "T" Adapter (D). See Figure 3.
19. For adjusting to high school or college width, remove the $5/8" \times 1 1/2"$ Hex Bolts (L), $5/8"$ Lock Washers (M), and the Crossbar Washer Plate (K) on the bottom side of the Crossbar (E). Insert a pole or pipe $1 1/2"$ in diameter into the bottom of the Adjustable End Cap (J) and slide out or in the Adjustable End Cap (J) until it stops. Do this on both ends of the Crossbar (E). Reinstall and tighten all hardware.