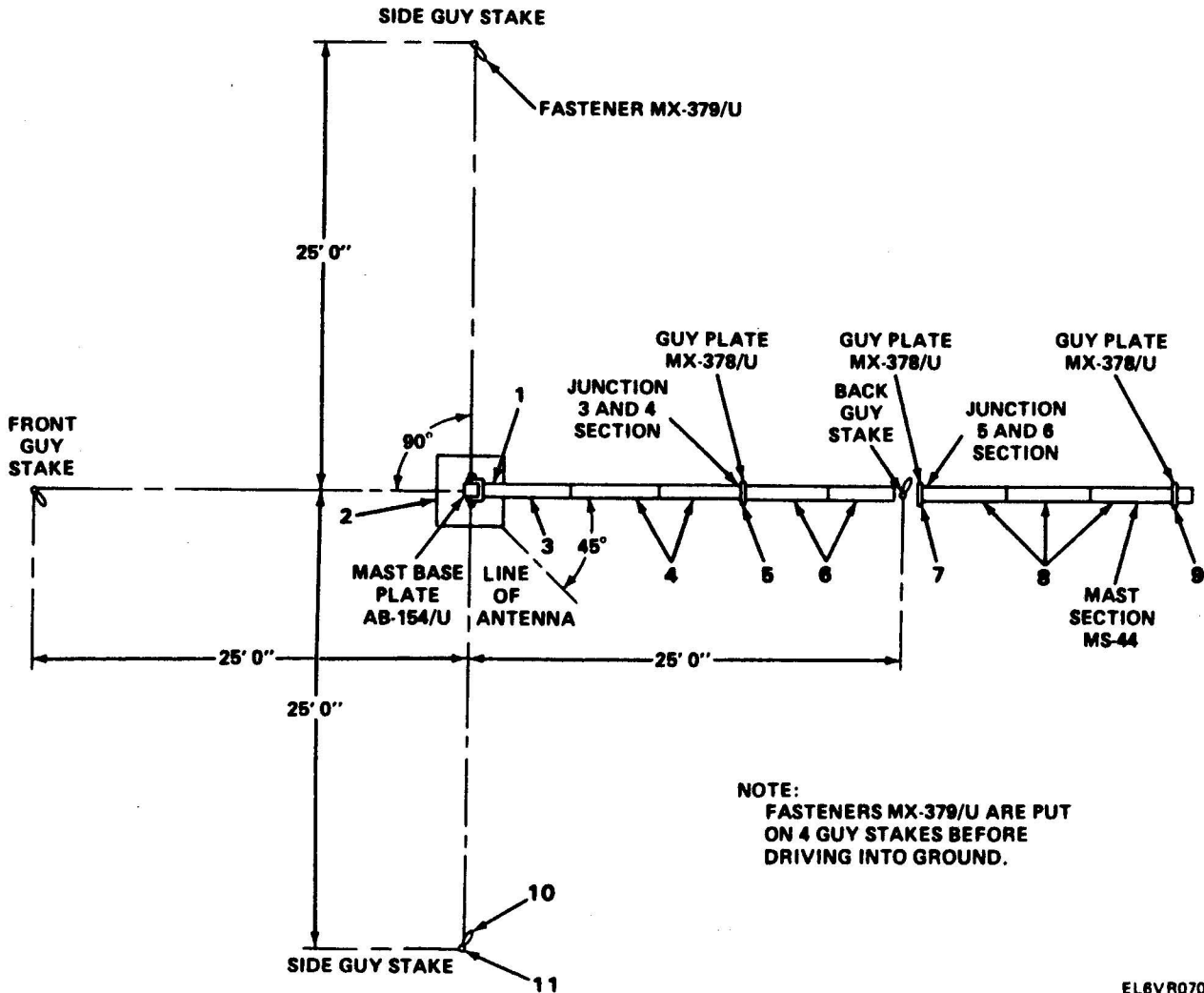


**2-17. MAST AB-155/U ERECTION.**

These procedures cover erection of antenna mast AB-155/U. Two antenna masts are used to support antenna when overall antenna length is less than 120 feet (36.6 m). A center mast is needed for antennas of 120 feet or longer. Erect end masts several feet beyond each end of antenna. Center mast must be offset 3 feet to left or right of antenna line to allow room for coaxial connector.

Determine direction antenna is to radiate. Always consider connection of antenna to shelter before positioning antenna along ground for erection. Arrange two or three antenna masts and guy plates as illustrated on page 2-53. Erect each antenna according to the following procedures.

**ANTENNA ASSEMBLY**



EL6VR070

**2-17. MAST AB-155/U ERECTION. (CONT)**

1. Place mast AB-155/U assembly at each mast location.

**NOTE**

If ground is soft or sandy, place mast base plate AB-154/U on ground and push it down firmly. Then drive mast base swivel stake AB-154/U through center hole in mast base plate.

2. Drive mast base AB-154/U swivel ground stake (1) into ground, through mast base plate (2) if needed, at desired mast location with swivel end pointing 45 degrees from antenna line.
3. Align female ends of mast sections MS-44 for assembly.
4. Install first mast section (3) to mast base swivel stake (1).
5. Install second and third mast sections (4).
6. Install guy plate MX-378/U (5) over third mast section.
7. Install fourth and fifth mast sections (6).

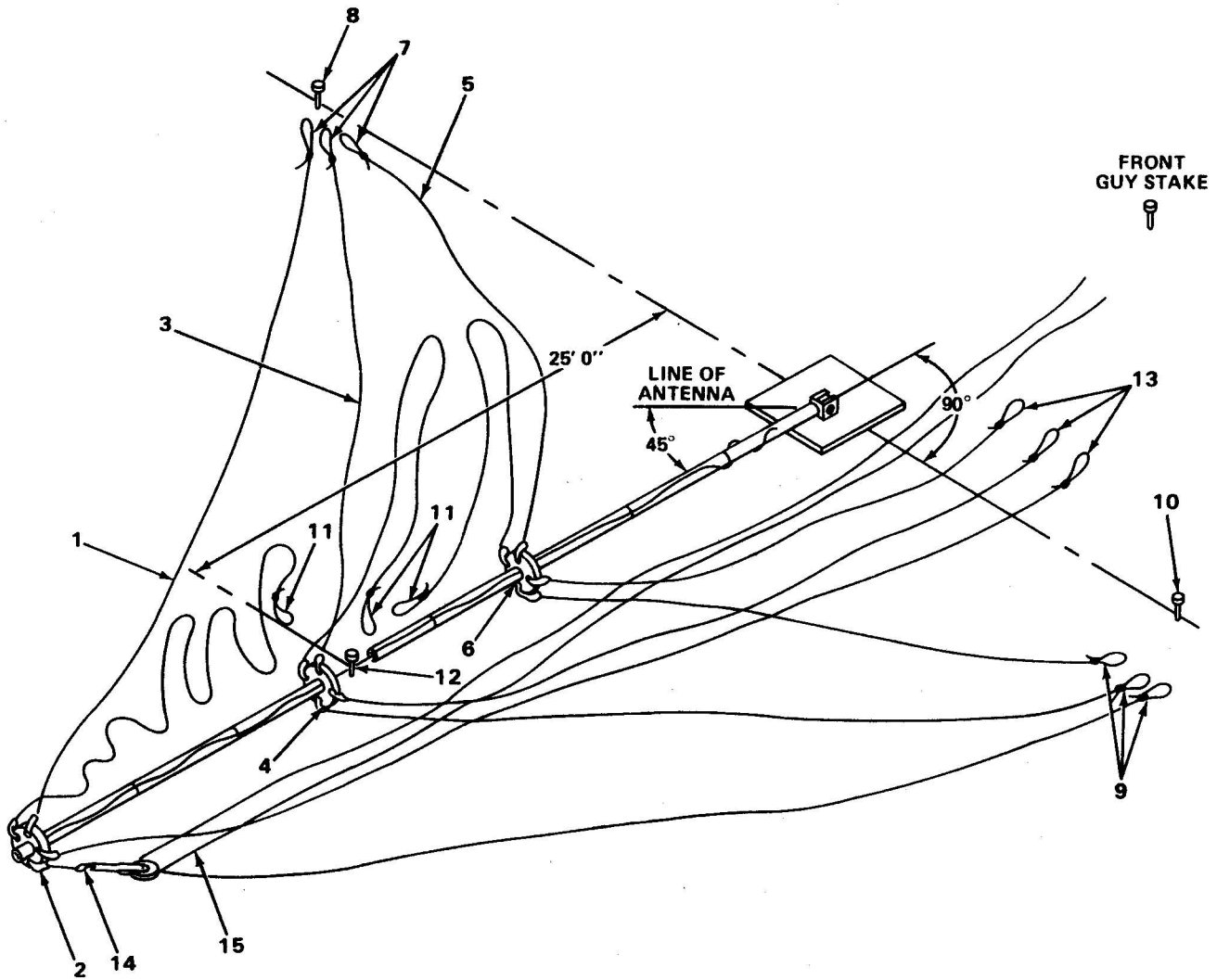
**NOTE**

Use five assembled mast sections to measure distance between mast base and guy stakes. If ground is soft or sandy use wooden stakes instead of aluminum stakes, and loop guys over stakes.

8. Install second guy plate MX-378/U (7) over fifth mast section.
9. Install sixth, seventh, and eighth mast sections (8).
10. Install third guy plate MX-378/U (9) over eighth mast section. Walk down mast assembly and turn three guy plates so three halyard holes face same direction.
11. Install four guy fasteners MX-379/U (10) over four guy stakes (11).
12. Install four guy stakes (11) 25 feet (7.6 m) from mast base as illustrated.

2-17. MAST AB-155/U ERECTION. (CONT)

ANTENNA ASSEMBLY (CONT)



EL6VR071

**2-17. MAST AB-155/U ERECTION. (CONT)****NOTE**

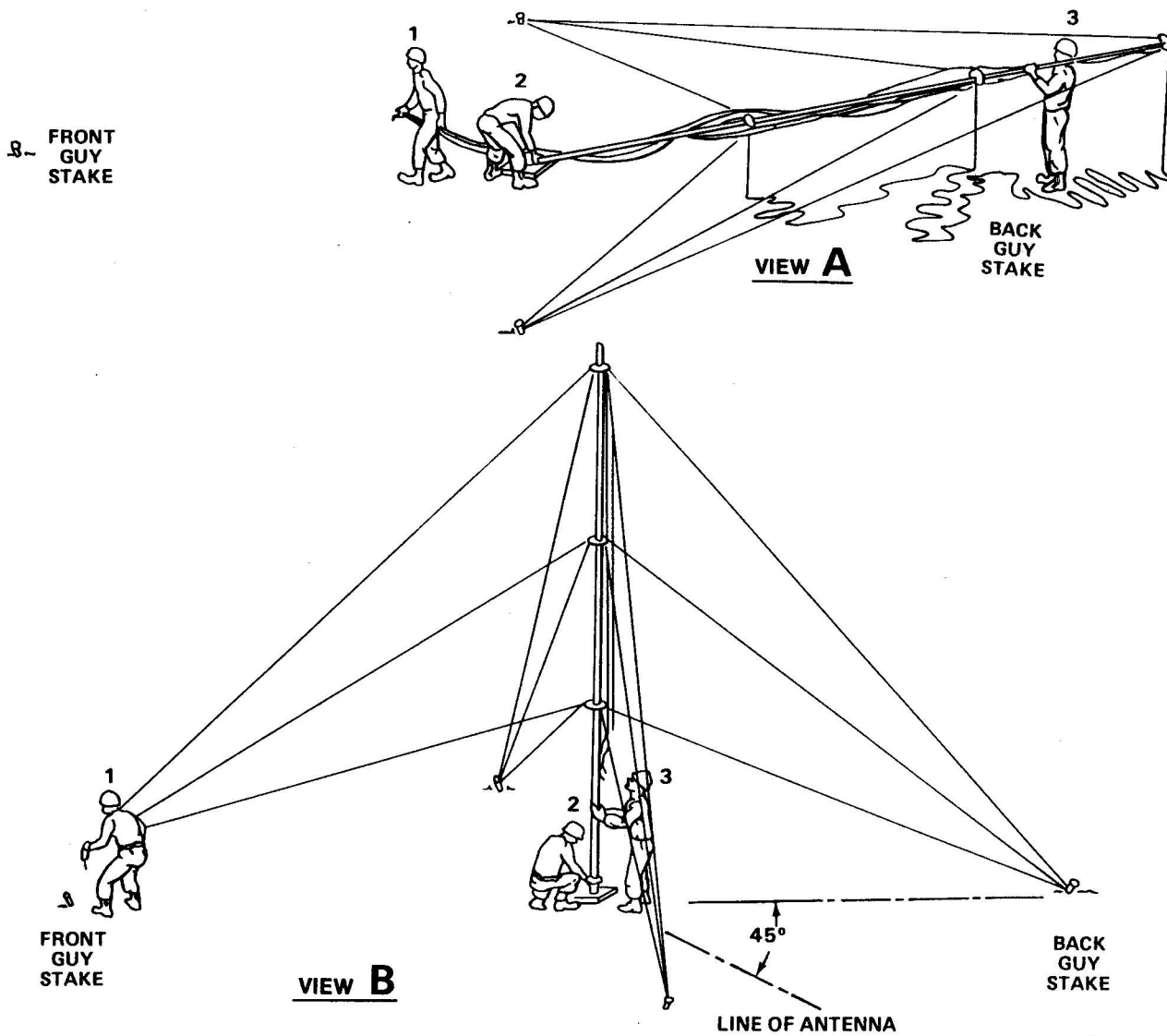
Fasten guy lines by snapping fastener at end of each guy line into one of four holes located 90 degrees apart on MX-378/U.

13. Fasten four 52-foot guy lines MX-383/GRA-4 (1) to top guy plate MX-378/U (2).
14. Fasten four 42-foot guy lines MX-381/GRA-4 (3) to center guy plate MX-378/U (4).
15. Fasten four 32-foot guy lines MX-382/GRA-4 (5) to bottom guy plate MX-378/U (6).
16. Connect three different lengths of right side guy lines (7) to right side guy stake (8).
17. Connect three different lengths of left side guy lines (9) to left side guy stake (10).
18. Tighten each side guy line installed in steps 16 and 17. Do not over tighten as antenna mast could bend.
19. Connect three different lengths of back guy lines (11) to back guy stake (12).
20. Position three front guy lines (13) pointing toward front guy stake.
21. Fasten snap fastener (14) on pulley to unused hole in top guy plate MX-378/U (2).
22. Slip rope (15) through pulley and tie ends of rope near mast base to keep rope from running through pulley.

2-17. MAST AB-155/U ERECTION. (CONT)

ANTENNA ERECTION

Personnel Required: Three technicians



EL6VR072

1. Technician (1) holds front guy lines and pulls steadily on them, keeping more tension on top guy line to bow mast slightly (view A).
2. Technician (2) takes a position near mast base and holds mast base in position.
3. Technician (3) takes position near top end of mast and raises it.
4. Technician (3) walks toward mast base raising mast as technician (1) pulls on guy lines.
5. Adjust guy lines until mast is vertical (view B).