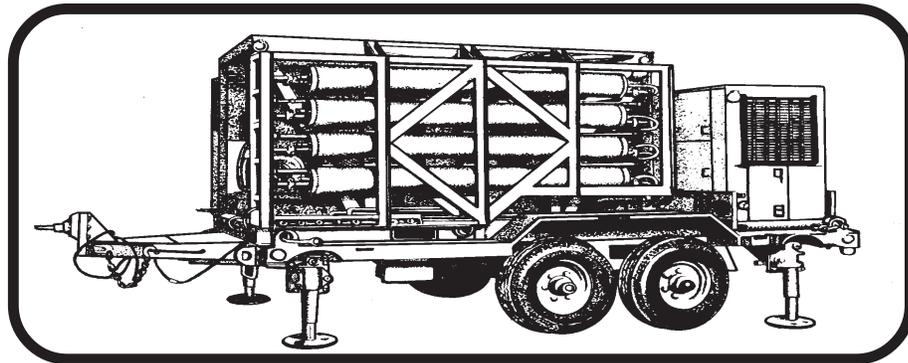




AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING THE 600-GPH REVERSE OSMOSIS WATER PURIFICATION UNIT



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Washington, DC, 30 January 1998

**AIRDROP OF SUPPLIES AND EQUIPMENT
RIGGING THE 600-GPH REVERSE OSMOSIS
WATER PURIFICATION UNIT**

This change adds the procedures for rigging the 600-GPH ROWPU on a type V platform.

FM 10-558/TO 13C7-7-61, 4 May 1987, is changed as follows:

1. New or changed material is identified by a vertical bar in the margin opposite the changed material.
2. File this transmittal sheet in front of the publication for reference purposes.
3. Remove old pages and insert new pages as indicated below:

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Reference

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Cover page
i through iii
3-1 through 3-46
Reference-1

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FIELD MANUAL
 NO 10-558
 TECHNICAL ORDER
 NO 13C7-7-61

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 WASHINGTON, DC

AIRDROP OF SUPPLIES AND EQUIPMENT
 RIGGING THE 600-GPH REVERSE OSMOSIS
 WATER PURIFICATION UNIT

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PREFACE

SCOPE

This manual tells and shows how to prepare and rig a 600-GPH ROWPU on a 20-foot, type V platform for low-velocity airdrop. It is designed for use by all parachute riggers.

USER INFORMATION

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions and to suggest ways for making this a better manual. Army personnel, send your comments on DA Form 2028 directly to:

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CHAPTER 3

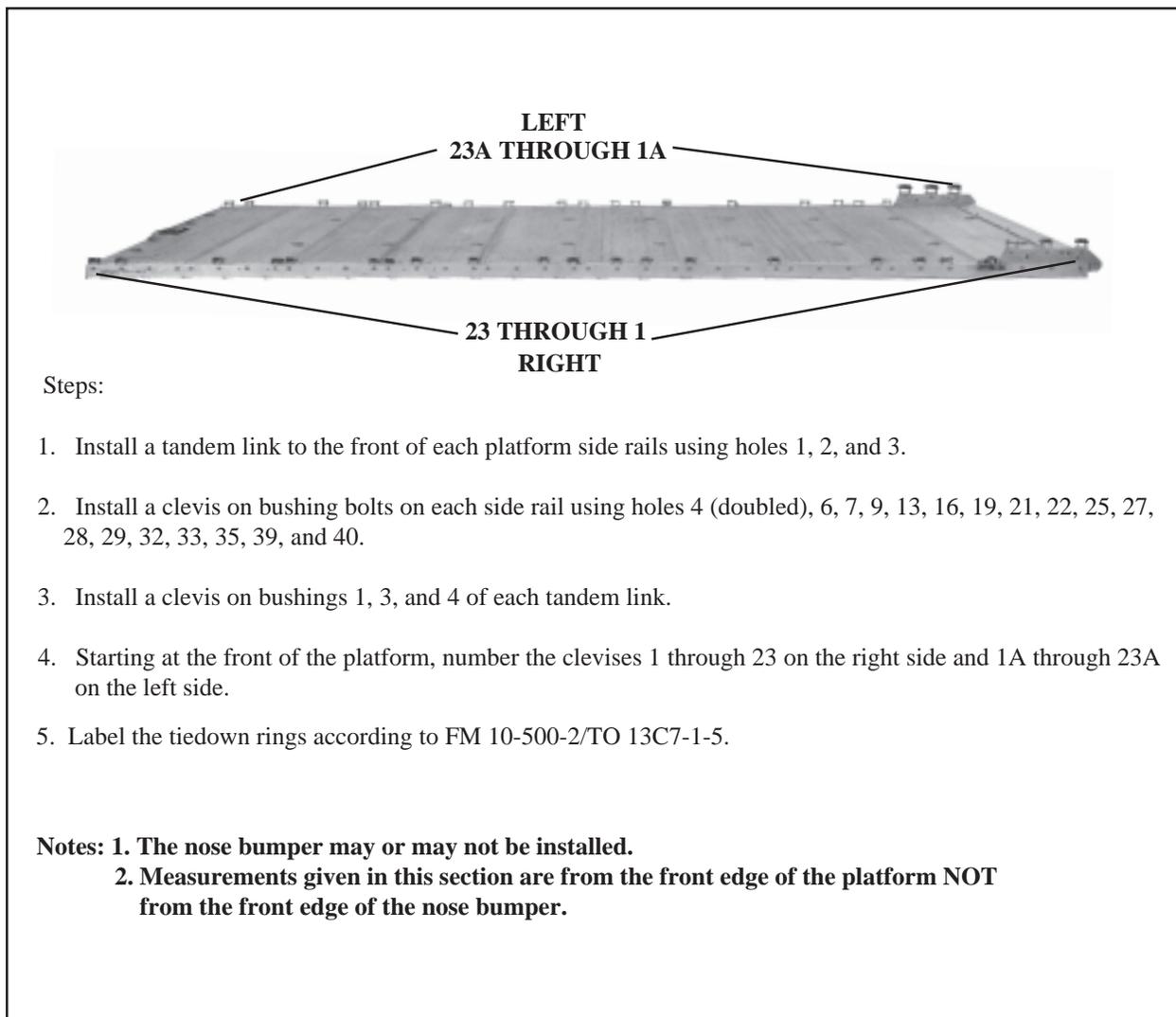
RIGGING 600-GPH ROWPU FOR LOW-VELOCITY AIRDROP ON A TYPE V PLATFORM

3-1. Description of Load

The 600-GPH ROWPU is rigged for low-velocity airdrop on a 20-foot, type V platform. The ROWPU has a rigged weight of 21,780 pounds. It is 101 inches in height and uses five G-11 cargo parachutes.

3-2. Preparing Platform

Inspect, or assemble and inspect, a 20-foot, type V airdrop platform as outlined in TM 10-1670-268-20&P/TO 13C7-52-22. Prepare a 20-foot, type V airdrop platform using 46 tiedown clevises as shown in Figure 3-1.



Steps:

1. Install a tandem link to the front of each platform side rails using holes 1, 2, and 3.
2. Install a clevis on bushing bolts on each side rail using holes 4 (doubled), 6, 7, 9, 13, 16, 19, 21, 22, 25, 27, 28, 29, 32, 33, 35, 39, and 40.
3. Install a clevis on bushings 1, 3, and 4 of each tandem link.
4. Starting at the front of the platform, number the clevises 1 through 23 on the right side and 1A through 23A on the left side.
5. Label the tiedown rings according to FM 10-500-2/TO 13C7-1-5.

Notes: 1. The nose bumper may or may not be installed.

2. Measurements given in this section are from the front edge of the platform NOT from the front edge of the nose bumper.

Figure 3-1. Platform prepared

3-3. Preparing and Positioning Honeycomb Stacks

Build five honeycomb stacks according to FM 10-500-2/TO 13C7-1-5 and as shown in Figures 3-2 through 3-7. Position the honeycomb stacks on the platform as shown in Figure 3-8.

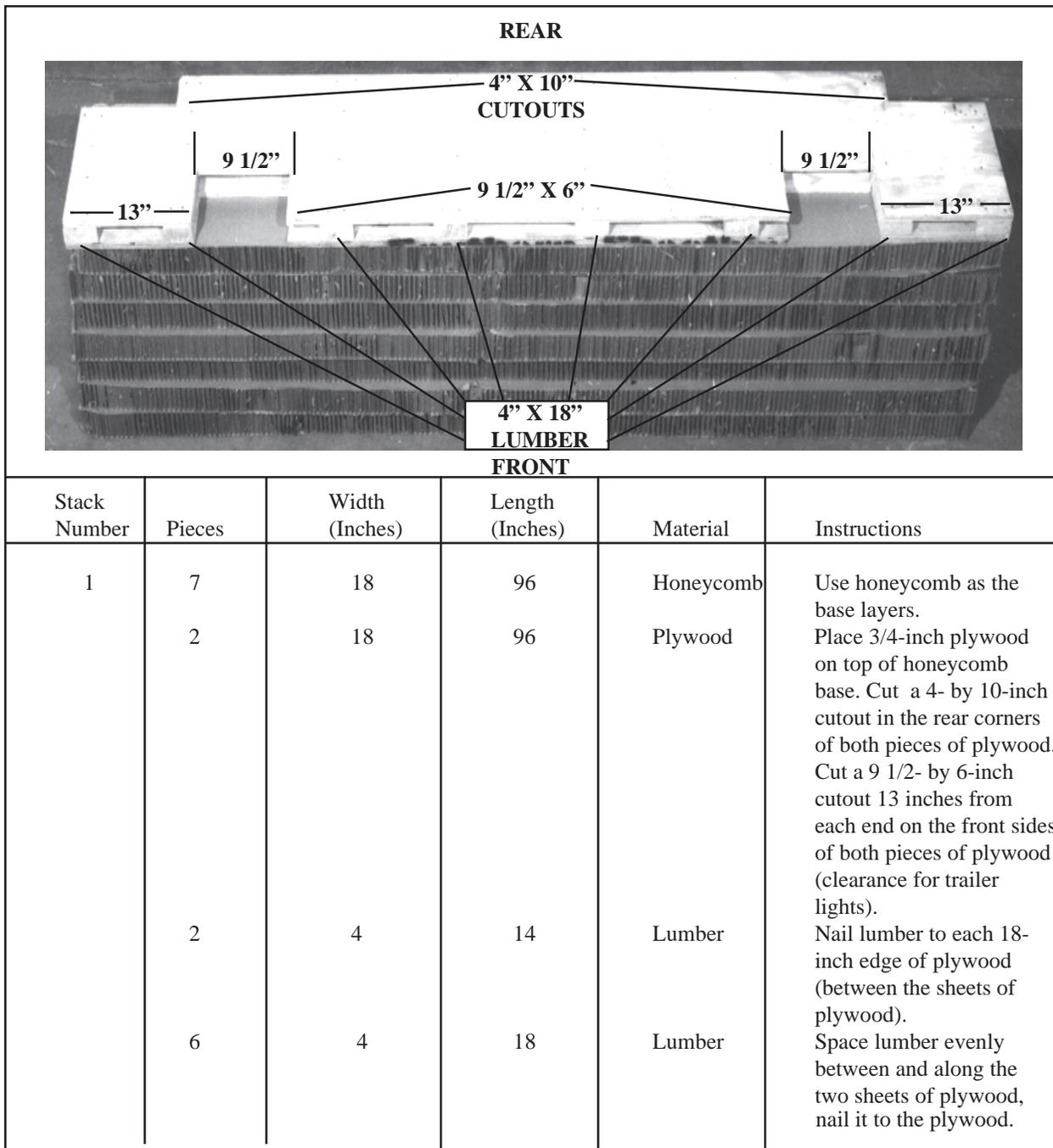
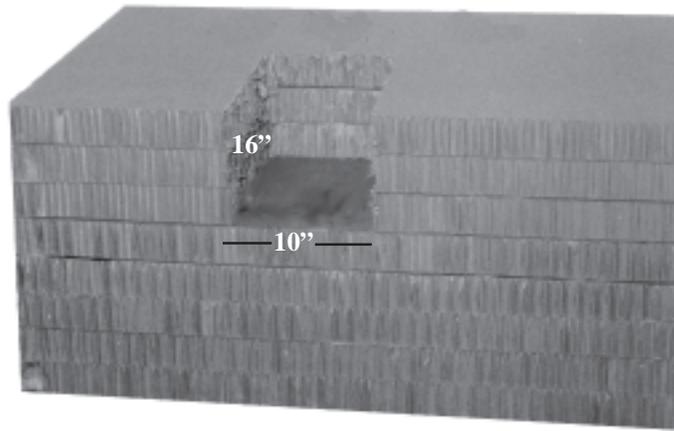
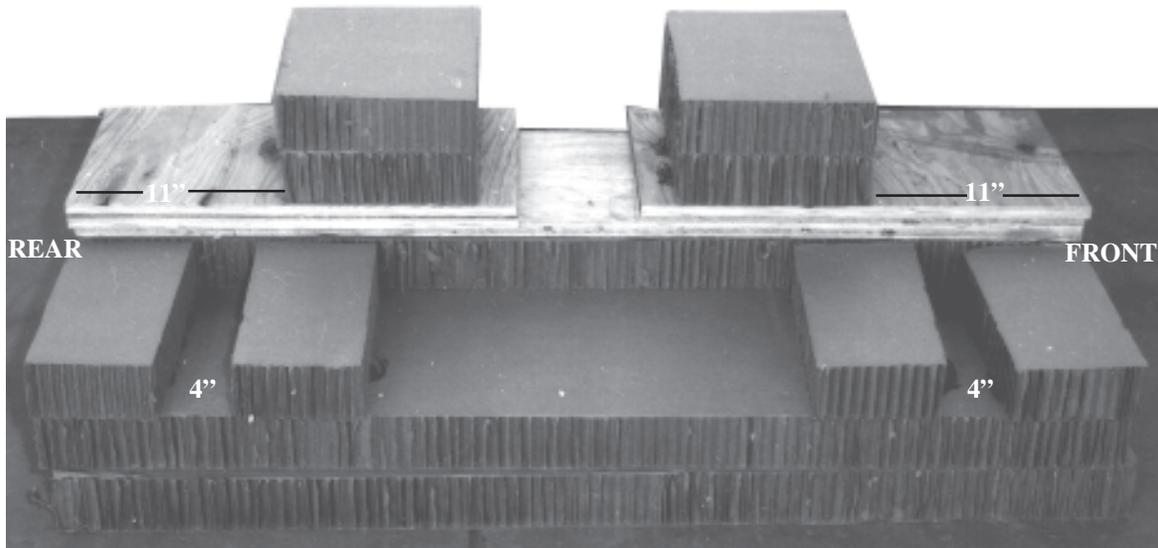


Figure 3-2. Stack 1 prepared



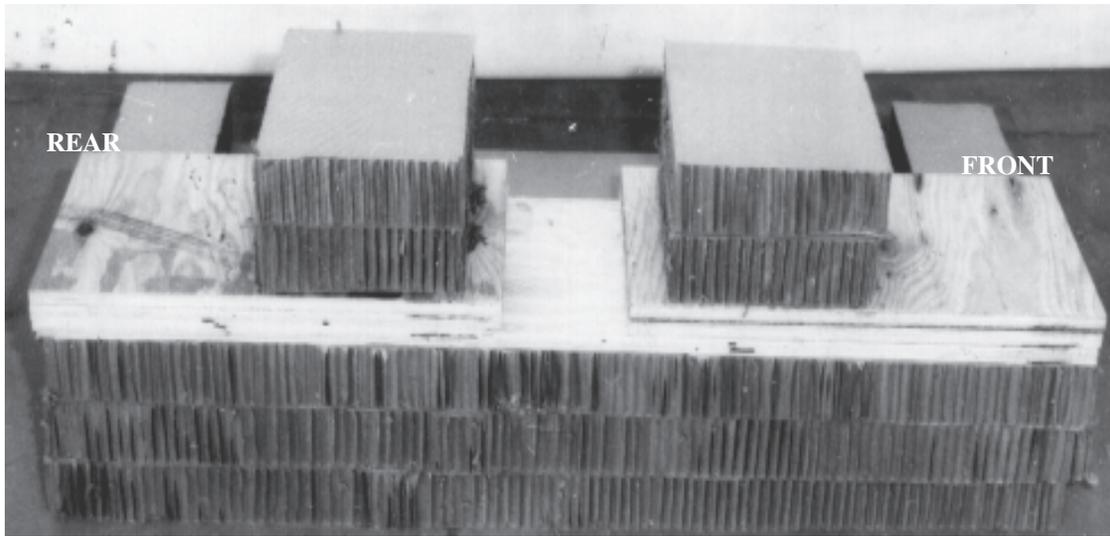
Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
2	8	34	48	Honeycomb	Use honeycomb as base layers. Cut a 10- by 16- inch cutout on the rear edges of the top three layers, starting at 16 inches from the left side.

Figure 3-3. Stack 2 prepared



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
3	2	24	52	Honeycomb	Use honeycomb as the base layers on the right side of the platform.
	1	12	52	Honeycomb	Place piece on top of the base on the inside edge.
	1	12	52	Plywood	Place 3/4-inch plywood on top of 12- by 52-inch honeycomb.
	4	12	23	Plywood	Place two pieces of 3/4-inch plywood flush with the front edge and two flush with the rear edge of the 12- by 52-inch piece of plywood.
	4	10	12	Honeycomb	Place two pieces 11 inches from the front edge and two pieces 11 inches from the rear edge of the plywood.
	4	6	12	Honeycomb	Place pieces on top of base layers. Place one piece on the rear outside corner, one 4 inches from the rear piece, one on the front outside corner, and one 4 inches from the front piece.

Figure 3-4. Stack 3 prepared



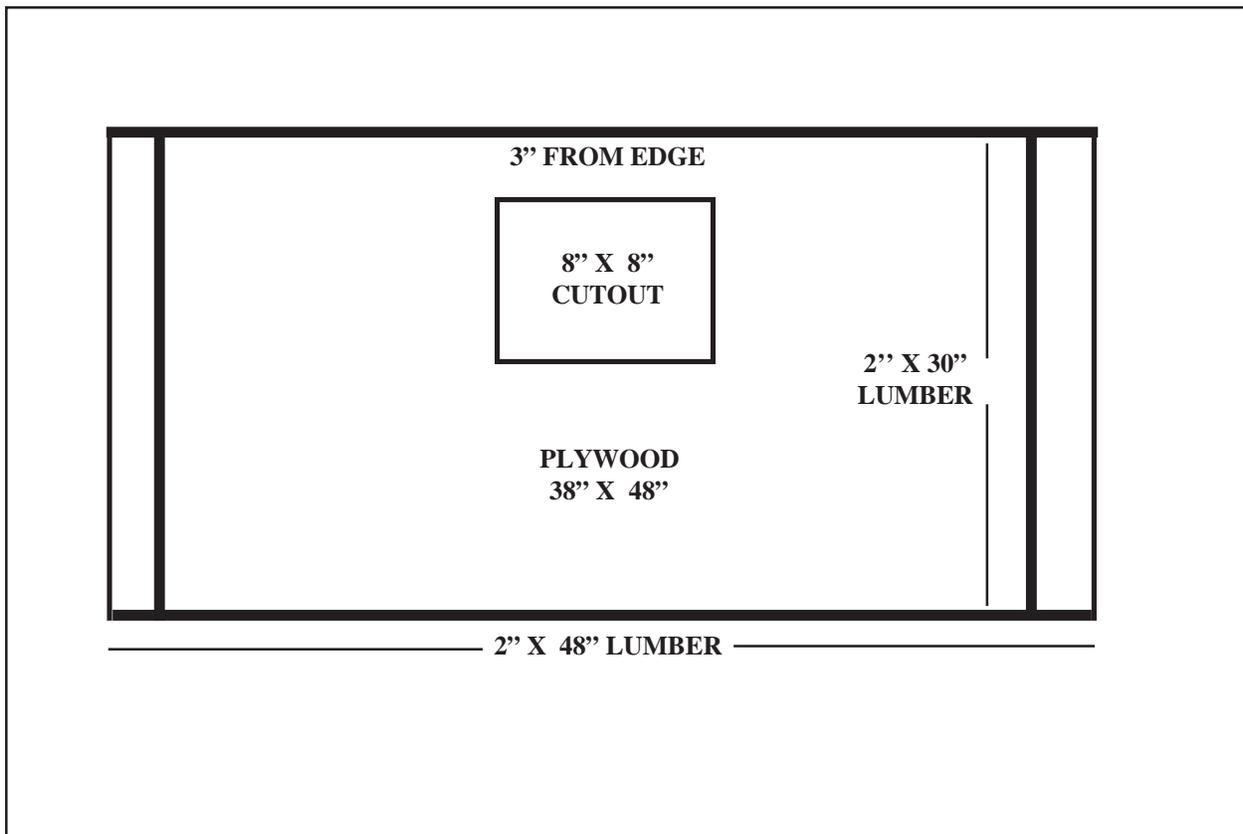
Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
4	Same as stack 3 but placed on the left side of the platform				

Figure 3-5. Stack 4 prepared



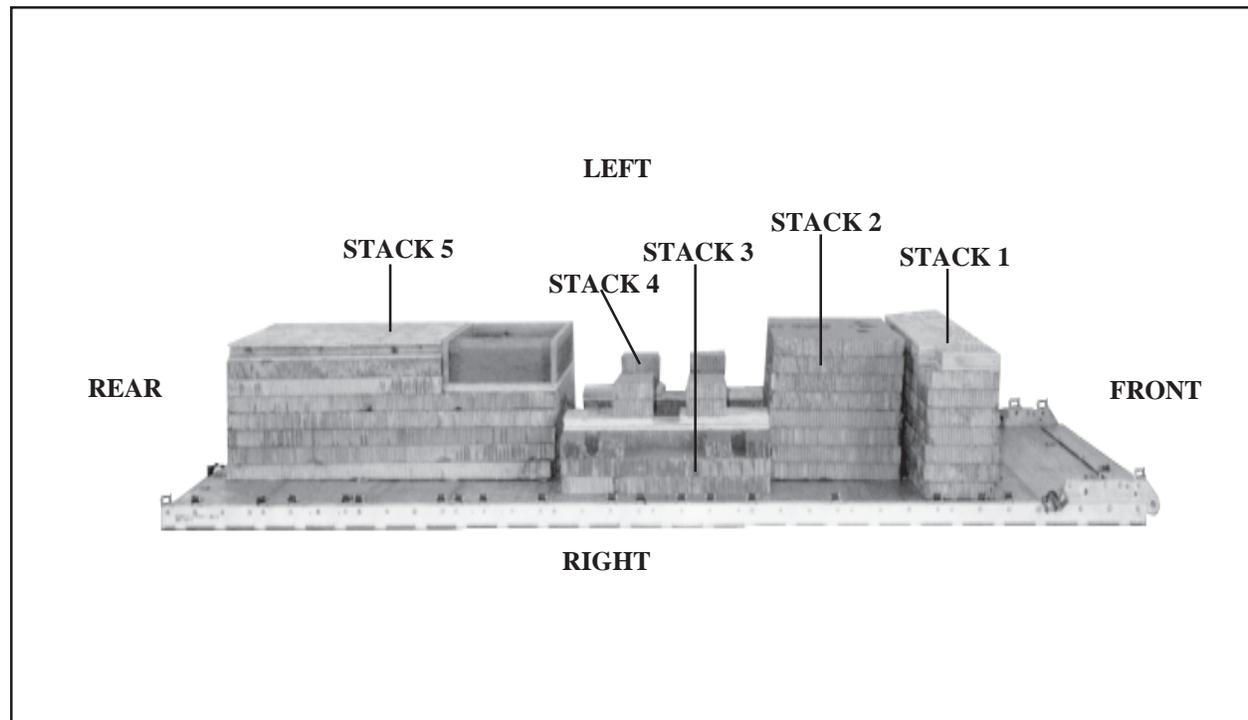
Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
5	5	48	88	Honeycomb	Use honeycomb as the base layers.
	2	48	58	Honeycomb	Place pieces on top at rear edge of base layers.
	1	44	58	Plywood	Place 3/4-inch plywood on top of 48- by 58-inch honeycomb.
	4	2	58	Lumber	Place one piece of 2-inch lumber 2 inches from the right edge and one piece 2 inches from the left edge of plywood. Place the other two pieces of lumber 8 inches from the pieces on the edge.
	1	48	58	Plywood	Place 3/4-inch plywood on top of lumber. Nail the plywood and lumber together.

Figure 3-6. Stack 5 prepared



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
5	2	30	48	Plywood	Use two pieces of 3/4-inch plywood as the base for the box. Cut a 8- by 8-inch cutout in both pieces of plywood 3 inches from the 48-inch rear edge and centered between the 30-inch edges. Nail a piece of 2-inch lumber on each 48-inch edge of the plywood. Nail a piece of 2-inch lumber 3 inches from each 30-inch edge of the plywood. Place the completed box on top of the the 48- by 88-inch honeycomb at the front of stack 5.
	2	8	48	Lumber	
	2	8	26	Lumber	

Figure 3-7. Box for stack 5 prepared



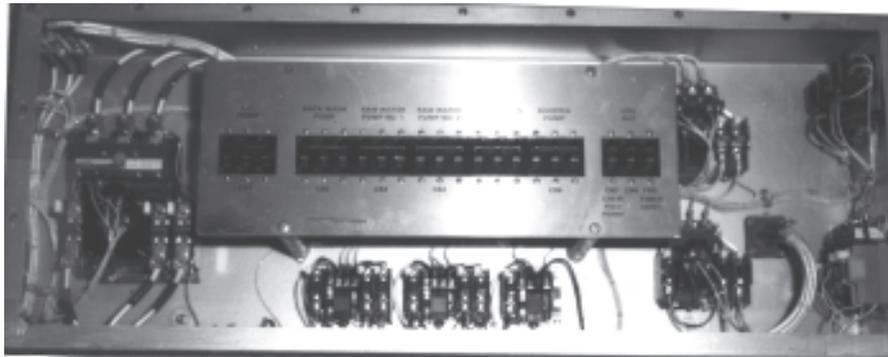
Stack Number	Position on Platform
	Place stack:
1	Centered and 35 inches from the front edge of the platform.
2	Centered and flush against stack 1.
3	Flush against stack 2 and 22 inches from the right side rail.
4	Flush against stack 2 and 22 inches from the left side rail.
5	Centered and 4 inches from the rear of stacks 3 and 4.

Figure 3-8. Honeycomb stacks positioned on platform

3-4. Preparing ROWPU

Prepare the ROWPU as described below. Secure all lashings with a load binder and the appropriate number of D-rings, and safety them according to FM 10-500-2/TO 13C7-1-5.

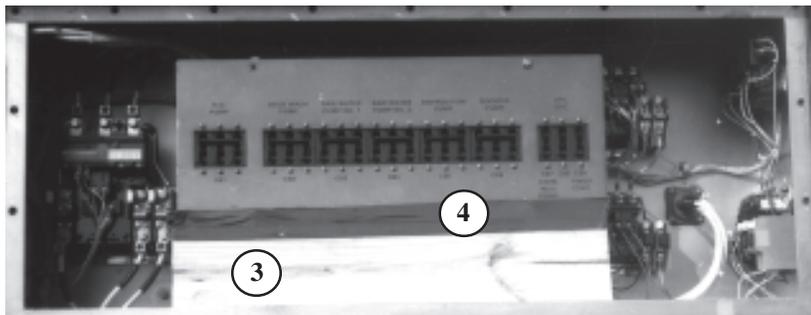
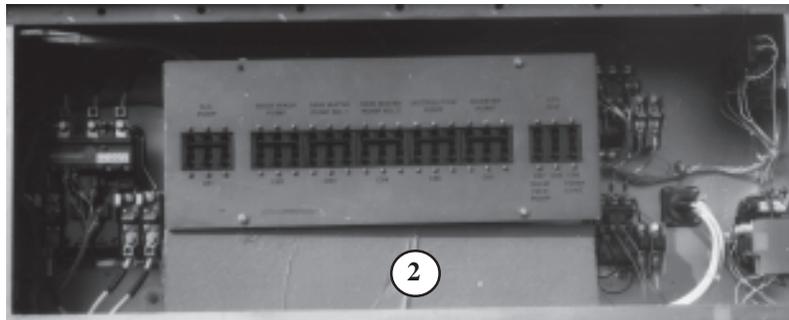
- a. Pad the top corners of the ROWPU frame and the top corners of the generator using cellulose wadding and tape.
- b. Pad the trailer lights.
- c. Prepare and lash the control box assembly as shown in Figure 3-9, and secure the lashings as shown in Figure 3-10.



①

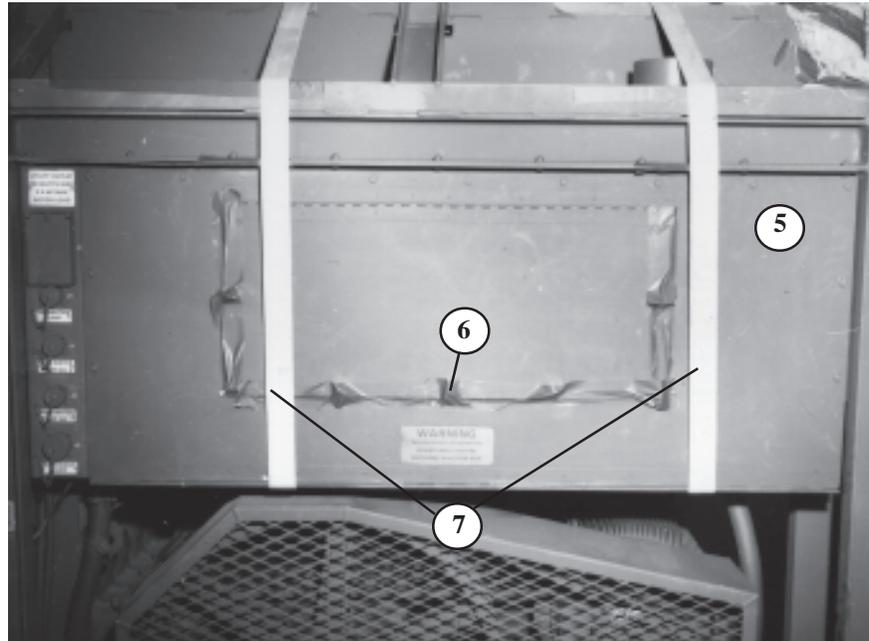
- ① Open the control box assembly cover.

Figure 3-9. Control box assembly prepared



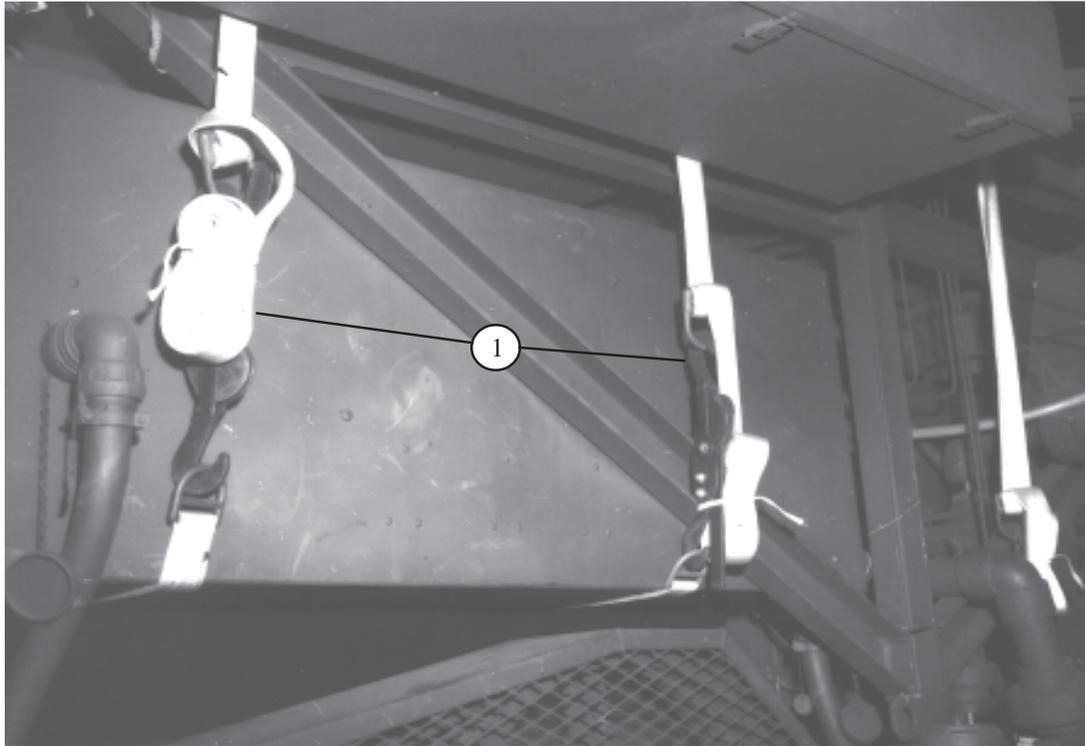
- ② Position a 6- by 26-inch piece of honeycomb between the bottom of the circuit breaker plate and the bottom of the control box.
- ③ Place a 2- by 6- by 26-inch piece of lumber between the honeycomb and the edge of the control panel.
- ④ Tape the lumber in place.

Figure 3-9. Control box assembly prepared (continued)



- ⑤ Close the control box assembly cover and secure it with the screws provided.
- ⑥ Close the circuit breaker plate cover. Secure it with the twist locks provided, and tape the twist locks.
- ⑦ Use two tiedown assemblies to secure the control box assembly to the top frame. Pass the lashings around the front panel and over the frame.

Figure 3-9. Control box assembly prepared (continued)

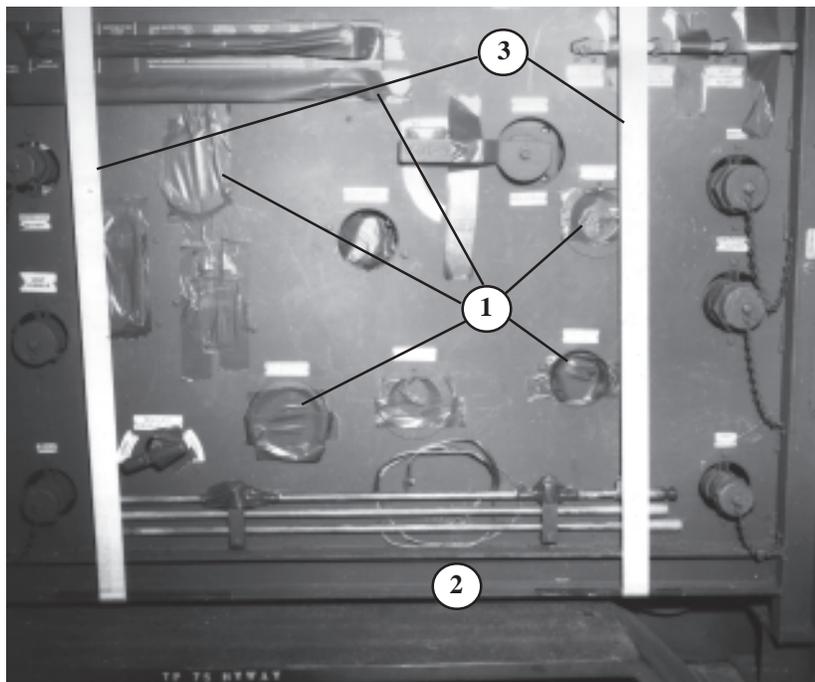


- ① Secure the lashings on the inside of the ROWPU.

Figure 3-10. Lashings secured on control box

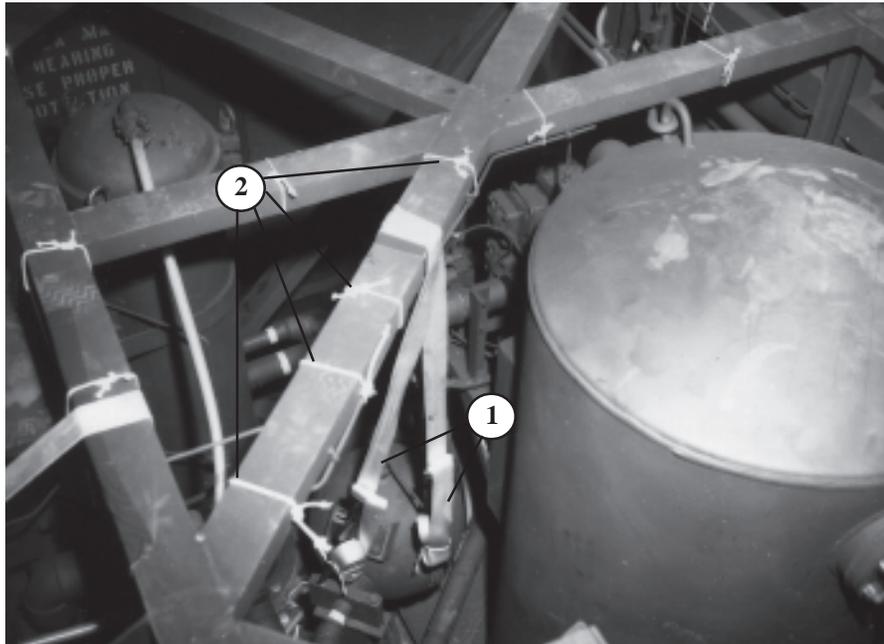
d. Prepare and secure the control panel as shown in Figure 3-11.

e. Secure the pulse dampener as shown in Figure 3-12.



- ① Tape all lights, switches, and gauges on the control panel with adhesive tape.
- ② Secure the ground rods in the carrying racks on the bottom of the control panel.
- ③ Use two tiedown assemblies to secure the operational control panel to the top frame, and secure the assemblies on the inside of the ROWPU.

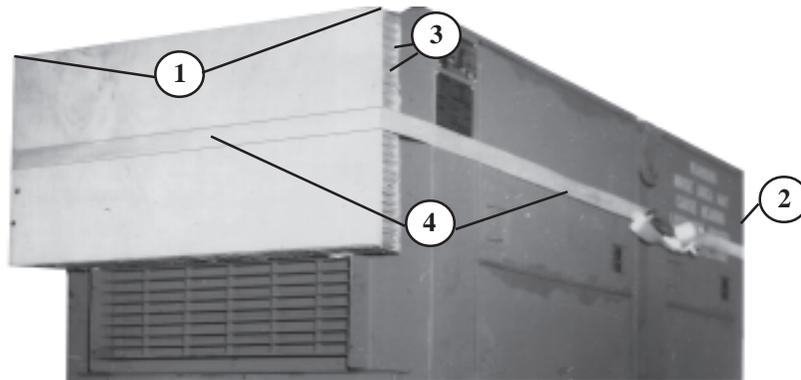
Figure 3-11. Control panel prepared and secured



- ① Use two tiedown assemblies to secure the pulse dampener to the top frame.
- ② Secure the 3/8-inch vent lines to the top frame with six ties of type III nylon cord.

Figure 3-12. Pulse dampener secured

- f. Secure the intervehicular cables and chains to the trailer with type III nylon cord.
- g. Fold the pump tiedown straps, and tape them to the floor of the ROWPU.
- h. Stow jacks and jack handles on their support brackets, and secure them with type III nylon cord.
- i. Make sure the generator's fuel tank is at least one-half but no more than three-fourths full of fuel. Ensure hazardous materials are packaged, marked, and labeled as required by AFJMAN 24-204/TM 38-250.
- j. Prepare the generator as shown in Figure 3-13.

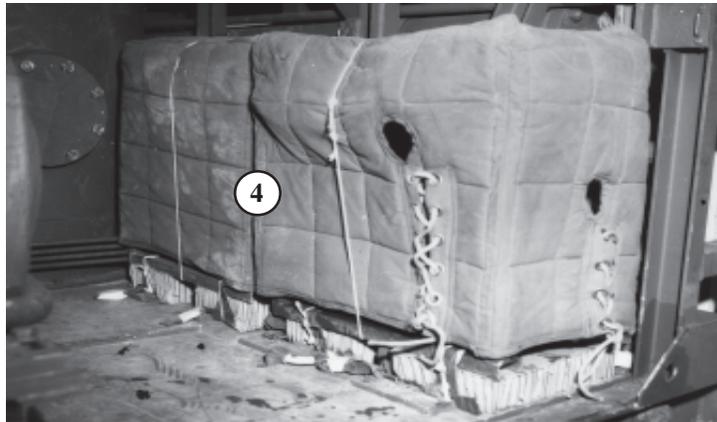
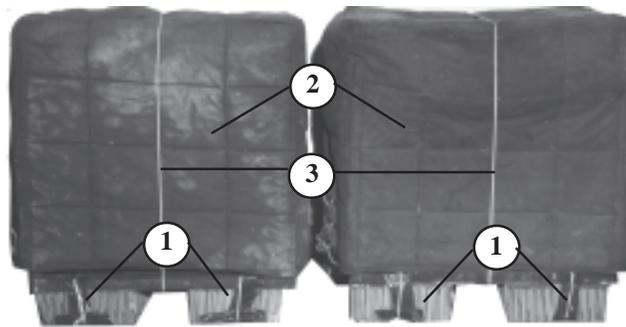


- ① Glue a 3/4- by 19- by 34-inch piece of plywood to a 19- by 34-inch piece of honeycomb. Position the plywood and honeycomb with the honeycomb against one end of the generator at the top.
- ② Repeat step 1 for the other end of the generator.
- ③ Tape the edges of the plywood.
- ④ Form a 30-foot tiedown strap according to FM 10-500-2/TO 13C7-1-5, and use it to secure the end protectors in place.

Figure 3-13. Generator prepared

k. Prepare the raw water pumps as shown in Figure 3-14, and stow them on the ROWPU.

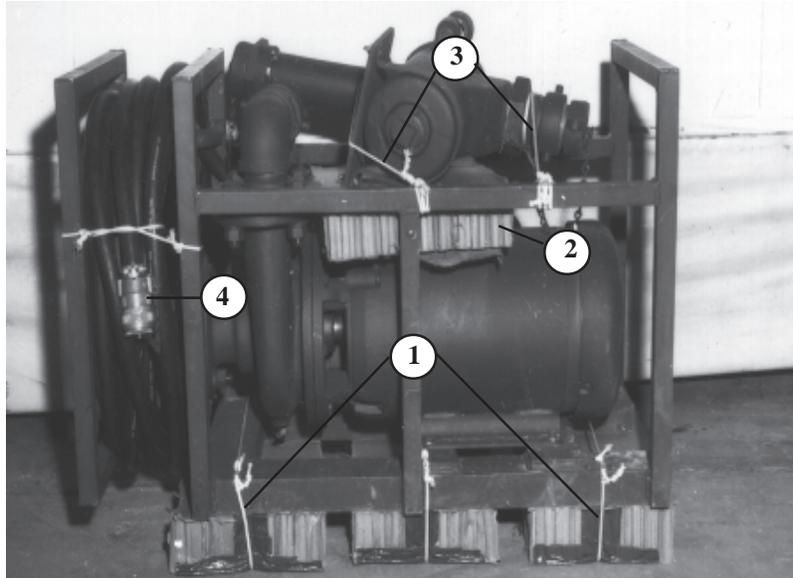
CAUTION: WHEN STOWING AND SECURING THE SUPPORTING EQUIPMENT, DO NOT STEP ON THE ROWPU PUMP OIL DRAIN VALVE, THE DRAIN HOSES, OR THE OIL GAUGE LOCATED BETWEEN THE ROWPU PUMP AND THE ELECTRIC MOTOR.



- ① Secure two pieces of 8- by 13-inch honeycomb to the bottom frame of each of the two raw water pumps using type III nylon cord.
- ② Cover the pumps with their covers.
- ③ Secure the covers with type III nylon cord.
- ④ Stow the two raw water pumps inside the ROWPU along the right side as viewed from the rear of the load.

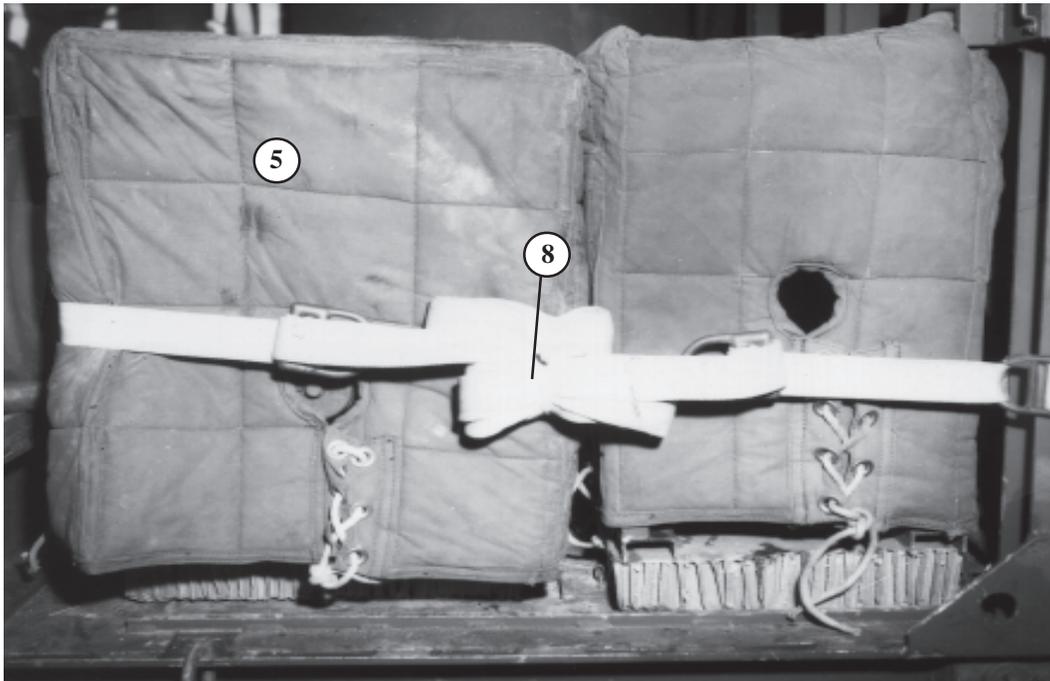
Figure 3-14. Raw water pumps prepared and stowed

I. Prepare, stow, and secure the backwash pump as shown in Figure 3-15.



- ① Secure three 8-inch by 16-inch pieces of honeycomb to the bottom frame of the backwash pump using type III nylon cord.
- ② Place one 10-inch by 13-inch piece of honeycomb on top of the motor of the backwash pump.
- ③ Position the pump strainer on the previously positioned honeycomb, and secure it to the top frame of the pump with type III nylon cord.
- ④ Secure the end of the hose to the frame to prevent the hose from unraveling.

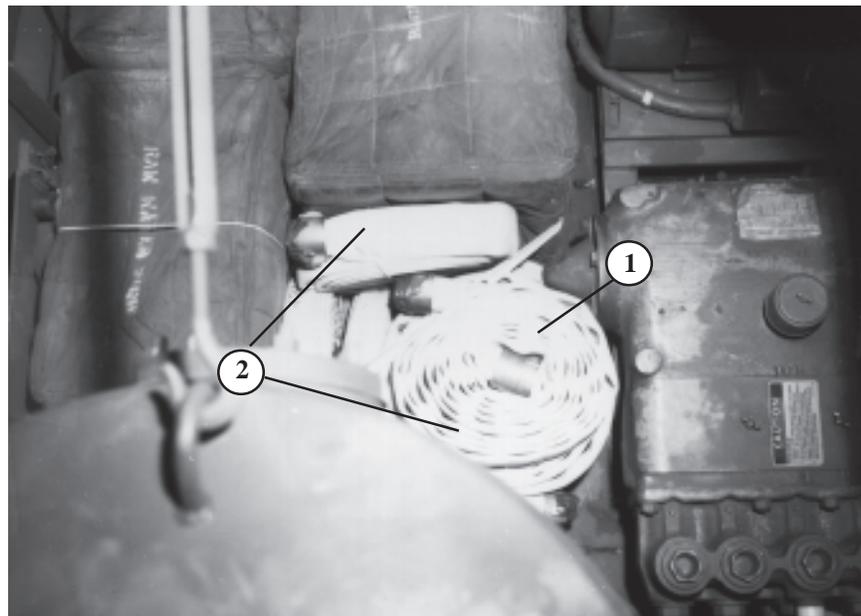
Figure 3-15. Backwash pump prepared, stowed, and secured



- ⑤ Place the cover on the backwash pump, and secure it with type III nylon cord. Set the pump inside the ROWPU between the raw water pumps and the ROWPU motor.
- ⑥ Pass one tiedown strap to the first inside vertical brace of the ROWPU (not shown), around the frame, and through its own D-ring to the first inside vertical brace (not shown).
- ⑦ Pass another tiedown strap to the third vertical brace of the ROWPU (not shown) in the same manner as in step 6.
- ⑧ Pass the straps around the three pumps, and secure the ends with D-rings.

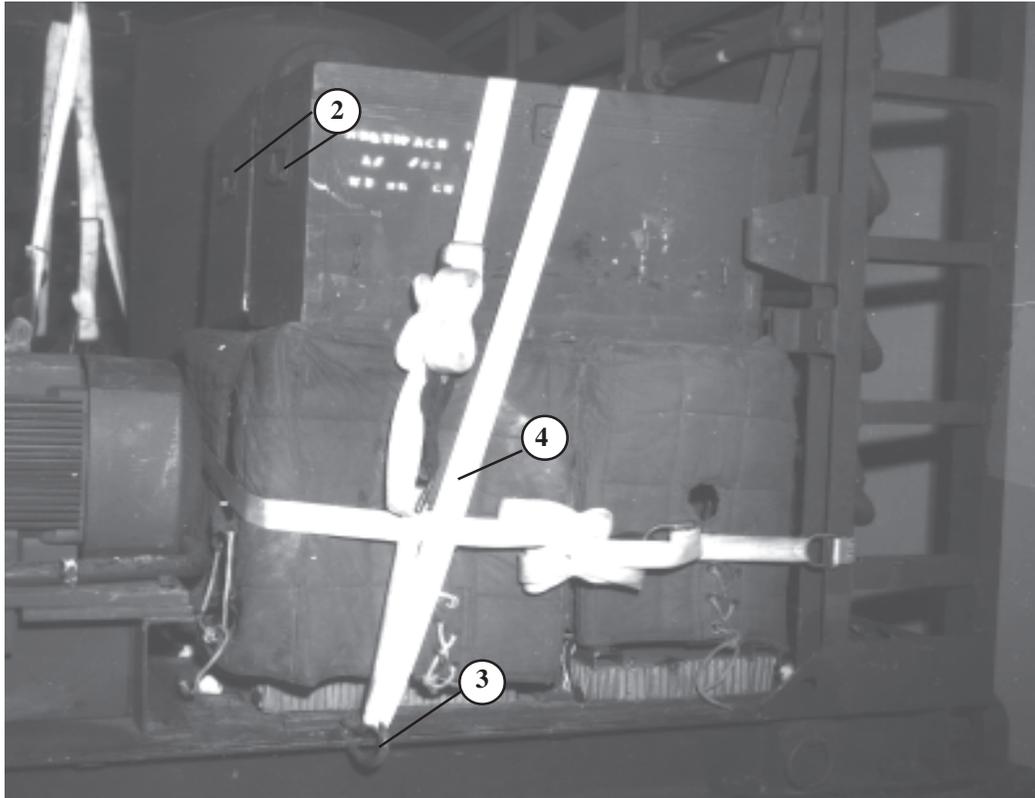
Figure 3-15. Backwash pump prepared, stowed, and secured (continued)

- m. Prepare and stow the canvas hoses as shown in Figure 3-16.
- n. Prepare, stow and secure the two storage chests as shown in Figure 3-17.



- ① Roll up each canvas hose section, and tie it with type III nylon cord.
- ② Stow the canvas hoses behind the pumps.

Figure 3-16. Canvas hose prepared and stowed



- ① Pad the contents inside the two storage chests with cellulose wadding (not shown). Secure the chest closed with type III nylon cord (not shown).
- ② Stow the two storage chests on top of the three pumps.
- ③ Attach a tiedown clevis to the center tiedown hole on the floor of the ROWPU.
- ④ Run a 30-foot lashing around the third inside vertical brace of the ROWPU. Pass the free end of the lashing over the chests and through the tiedown clevis. Secure it to its D-ring with a load binder.

Figure 3-17. Storage chests prepared, stowed, and secured

- o.** Place the wooden staves of the water tank beside the ROWPU pump and motor. Secure the staves to the floor with two lengths of type III nylon cord.
- p.** Set the sledgehammer next to the third inside vertical brace. Secure it to the brace with type III nylon cord.
- q.** Set the paddle and float behind the inside storage chest, and secure them together with type III nylon cord.
- r.** Stack the five gallon plastic water containers behind the ROWPU pump, and tie them to a convenient point with type III nylon cord.
- s.** Prepare and stow the rubber hoses as shown in Figure 3-18.
- t.** Prepare, stow, and secure the water tanks as shown in Figure 3-19.

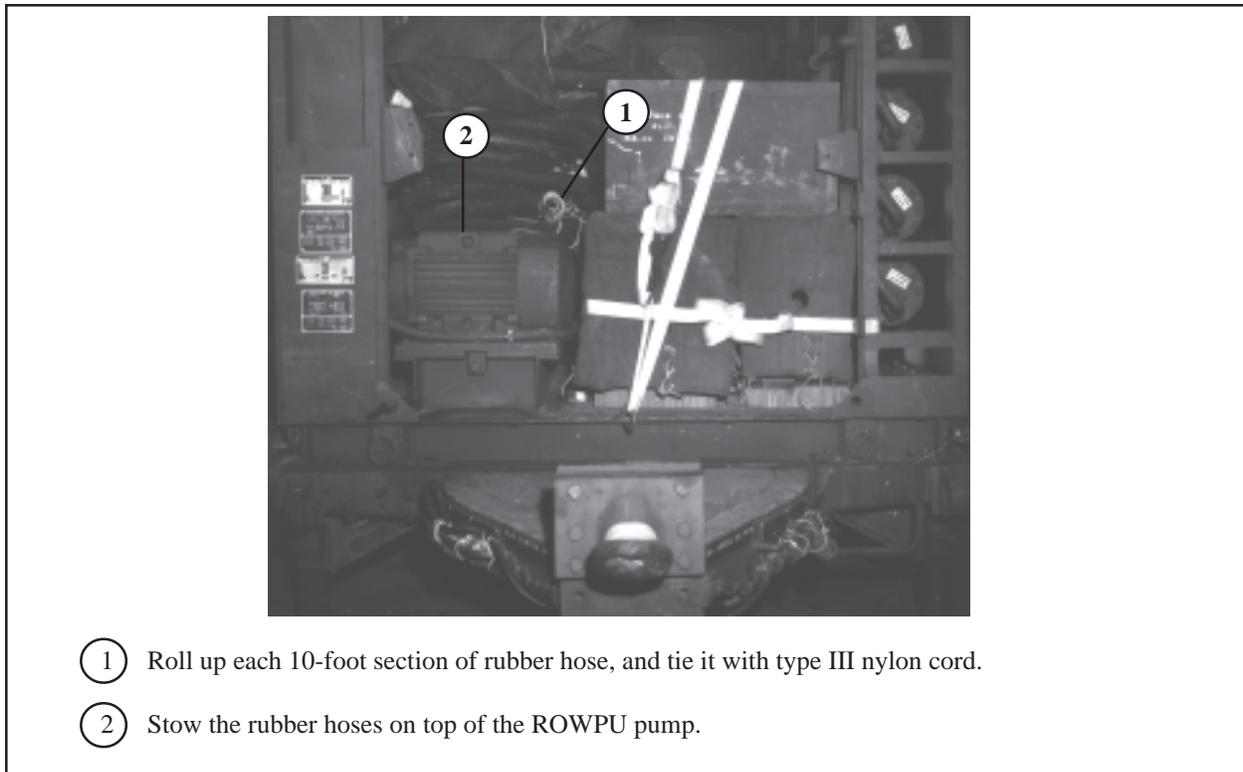
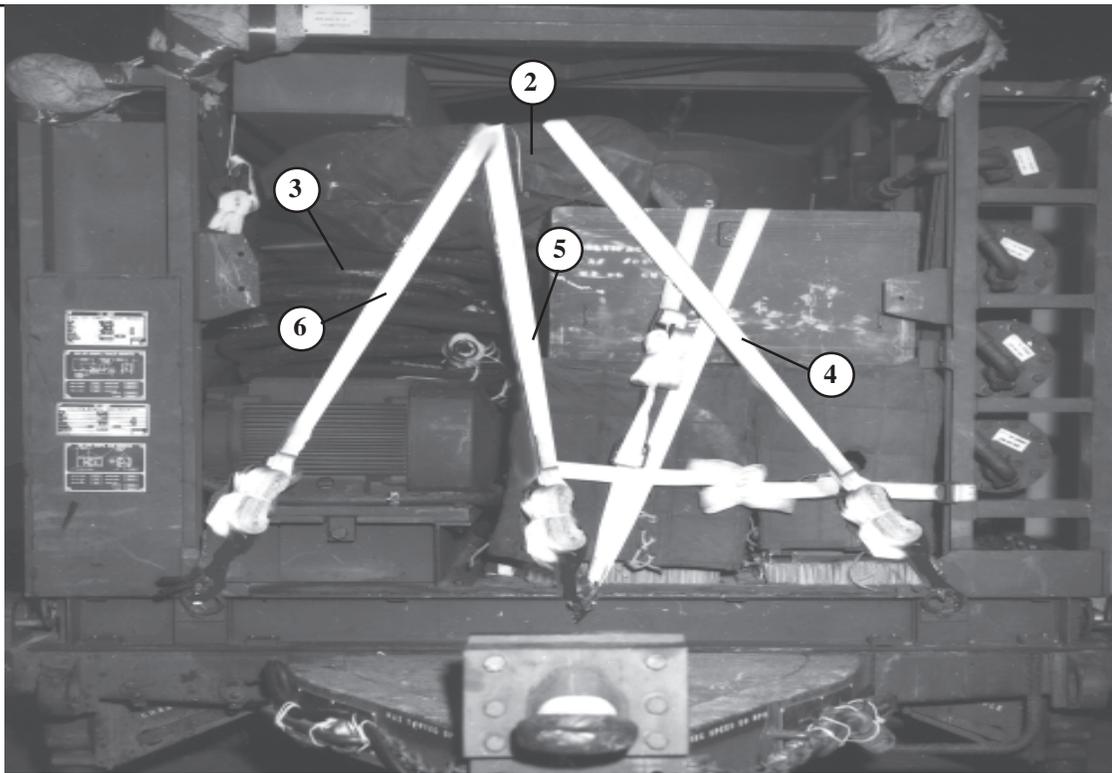


Figure 3-18. Rubber hoses prepared and stowed

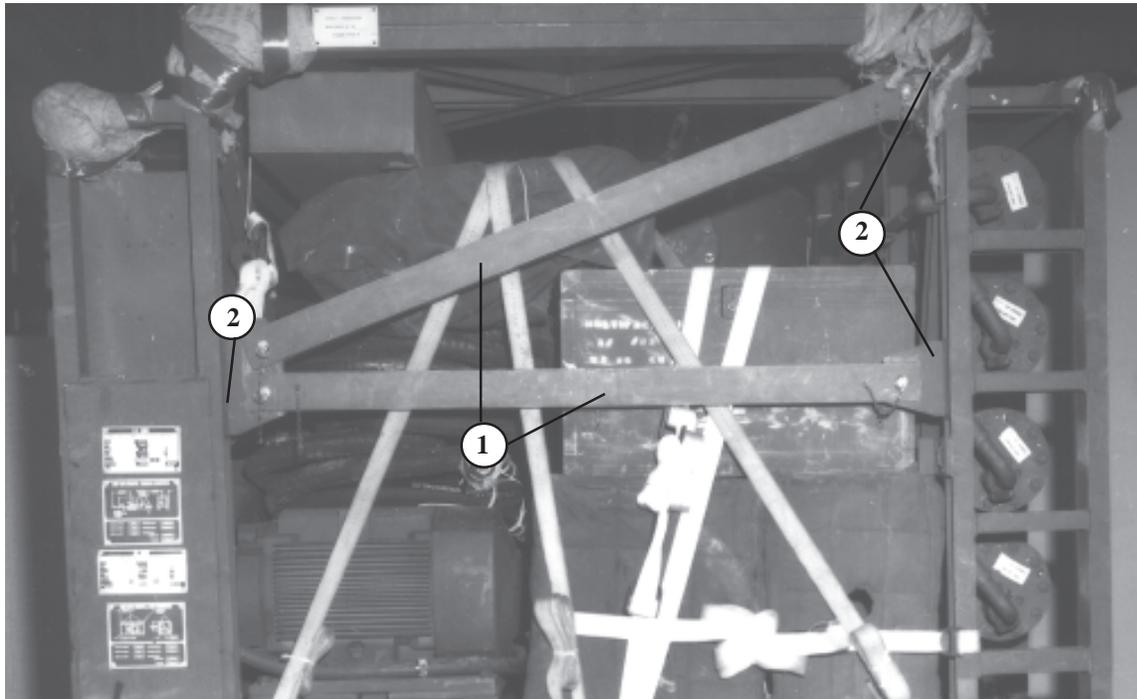


- ① Fold each water tank, and tie it with type III nylon cord (not shown).
- ② Cover the tanks with canvas, and secure the canvas with type III nylon cord.
- ③ Stow the water tanks and the ROWPU cover on the rubber hoses.
- ④ Attach one 15-foot lashing to the tiedown provision on the third inside vertical brace on the right side. Pass the strap over the tanks and attach it to the left bottom corner tiedown provision of the ROWPU.
- ⑤ Attach one 15-foot lashing to the center floor tiedown provision. Pass the strap from the center tiedown provision over the tanks to the center floor tiedown provision on the other side of the ROWPU.
- ⑥ Attach one 15-foot lashing to the tiedown provision on the third inside vertical brace on the left side. Pass the strap over the tanks, and attach it to the right bottom corner tiedown provision of the ROWPU.

Figure 3-19. Water tanks prepared, stowed and secured

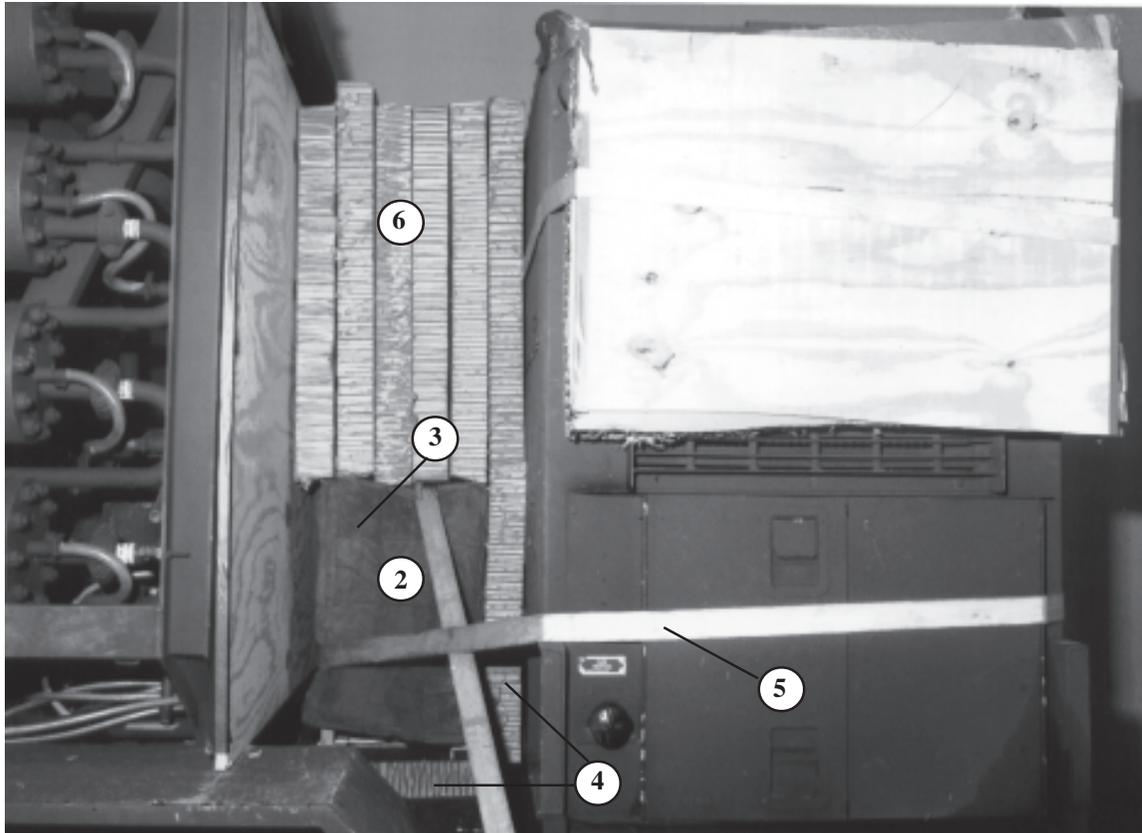
u. Install and secure cross braces as shown in Figure 3-20.

v. Prepare, stow, and secure the distribution pump as shown in Figure 3-21.



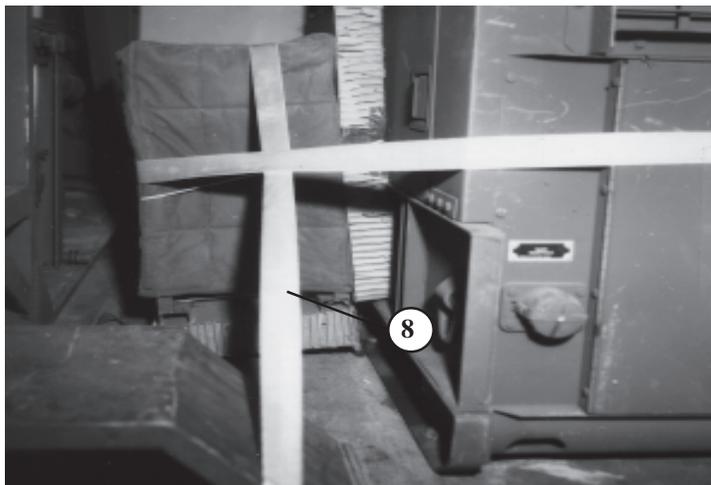
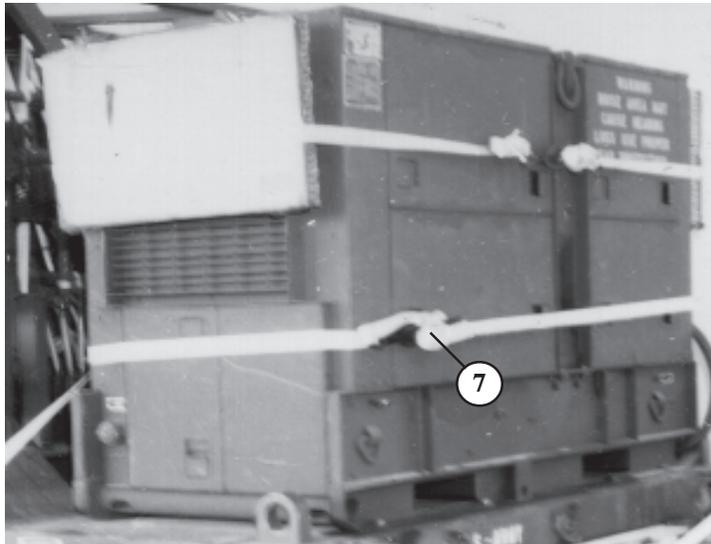
- ① Install the cross braces on the frame.
- ② Secure the cross braces by inserting the locking pins provided.

Figure 3-20. Cross braces installed and secured



- ① Secure two pieces of 8-inch by 13-inch honeycomb to the bottom frame of the distribution pump using type III nylon cord (not shown).
- ② Cover the pump.
- ③ Stow the pump in the bed of the trailer between the water purification unit and the generator.
- ④ Cut two pieces of 23-inch by 24-inch honeycomb. Lift the pump, and place one piece under the pump. Place the other piece between the pump and the generator.
- ⑤ Form two 30-foot tiedown straps according to FM 10-500-2/TO 13C7-1-5. Pass one strap around the pump and the generator.
- ⑥ Cut four pieces of 36-inch by 48-inch honeycomb. Place all four pieces on top of the pump.

Figure 3-21. Distribution pump, stowed, and secured

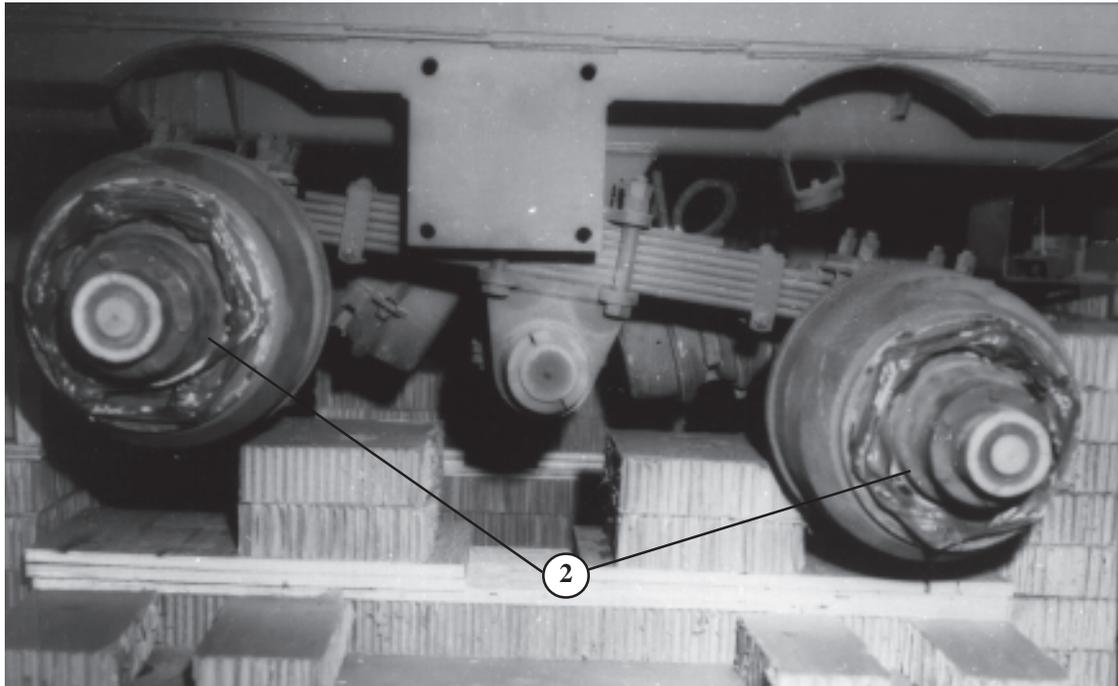


- ⑦ Secure the lashing.
- ⑧ Pass the other strap over the pump and under the trailer, and secure it.

Figure 3-21. Distribution pump, stowed, and secured (continued)

3-5. Lifting and Positioning Load

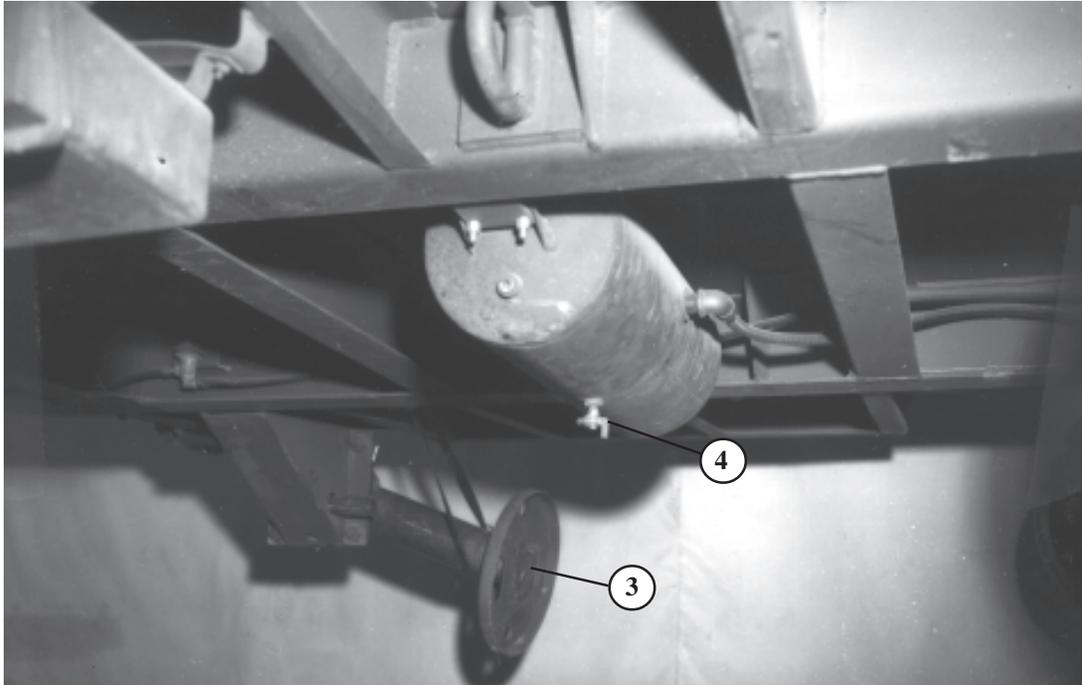
Use available slings to lift the ROWPU.
After lifting the ROWPU, prepare it for
positioning as shown in Figure 3-22.
Then position the ROWPU as shown in
Figure 3-23.



- ① Remove the four wheels and the spare (not shown). (They will be stowed on the platform after the lashings are installed).
- ② Place the lug nuts back on the lugs, and tape them.

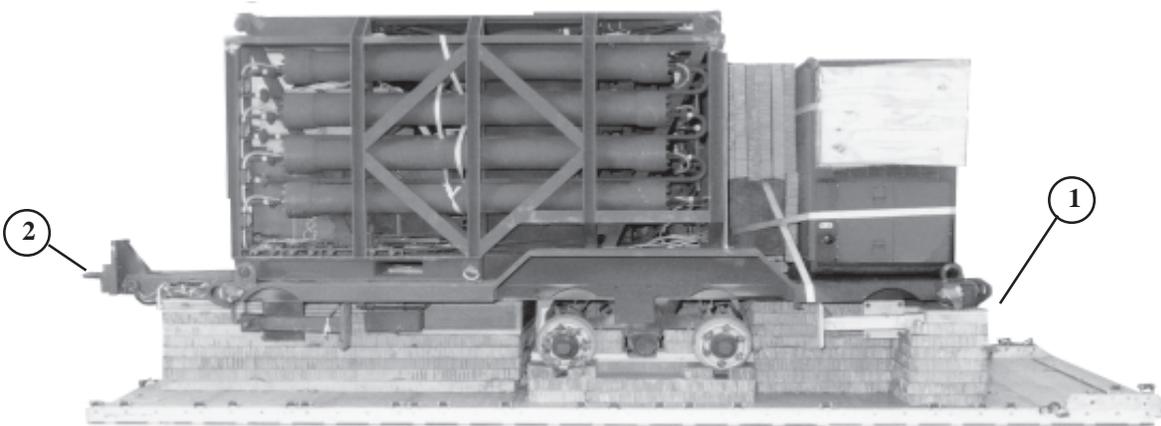
Figure 3-22. ROWPU prepared for positioning

CAUTION: ENSURE THAT THE AIR TANK RELEASE VALVE FITS INTO THE 8-INCH BY 8-INCH HOLE IN THE PLYWOOD OF STACK 5.



- ③ Raise the leveling jacks into the travel position, and secure them with 1/2-inch tubular nylon cord.
- ④ Position the air tank release valve over the 8- by 8-inch hole in the plywood of stack 5.

Figure 3-22. ROWPU prepared for positioning (continued)

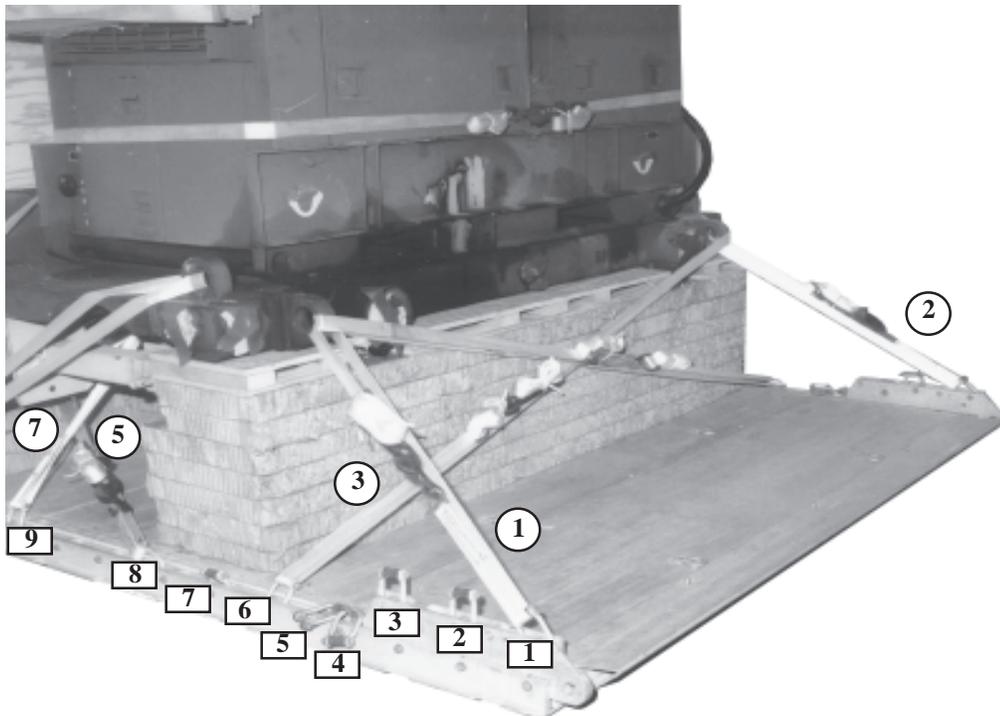


- ① Set the ROWPU on the honeycomb stacks with the rear of the trailer 3 1/2 inches from the front edge of honeycomb stack 1.
- ② Allow the drawbar to overhang the rear of the platform by 35 inches.

Figure 3-23. ROWPU positioned on platform

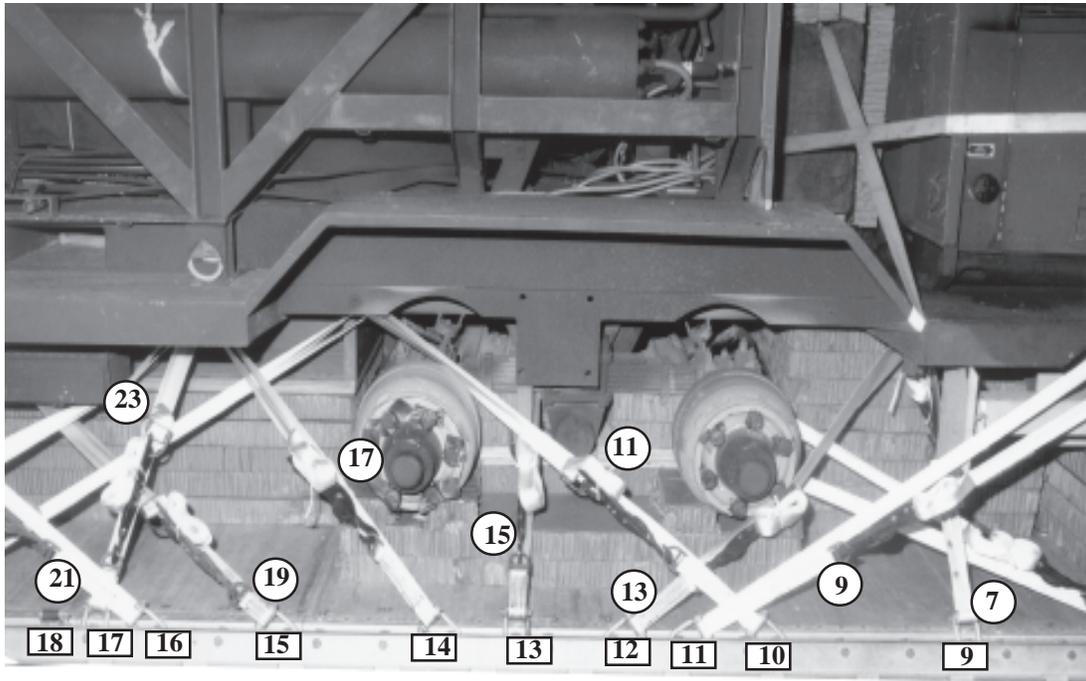
3-6. Lashing the ROWPU

Lash the ROWPU to the platform as shown in Figures 3-24 through 3-26. Install and safety the tiedown assemblies according to FM 10-500-2/TO 13C7-1-5.



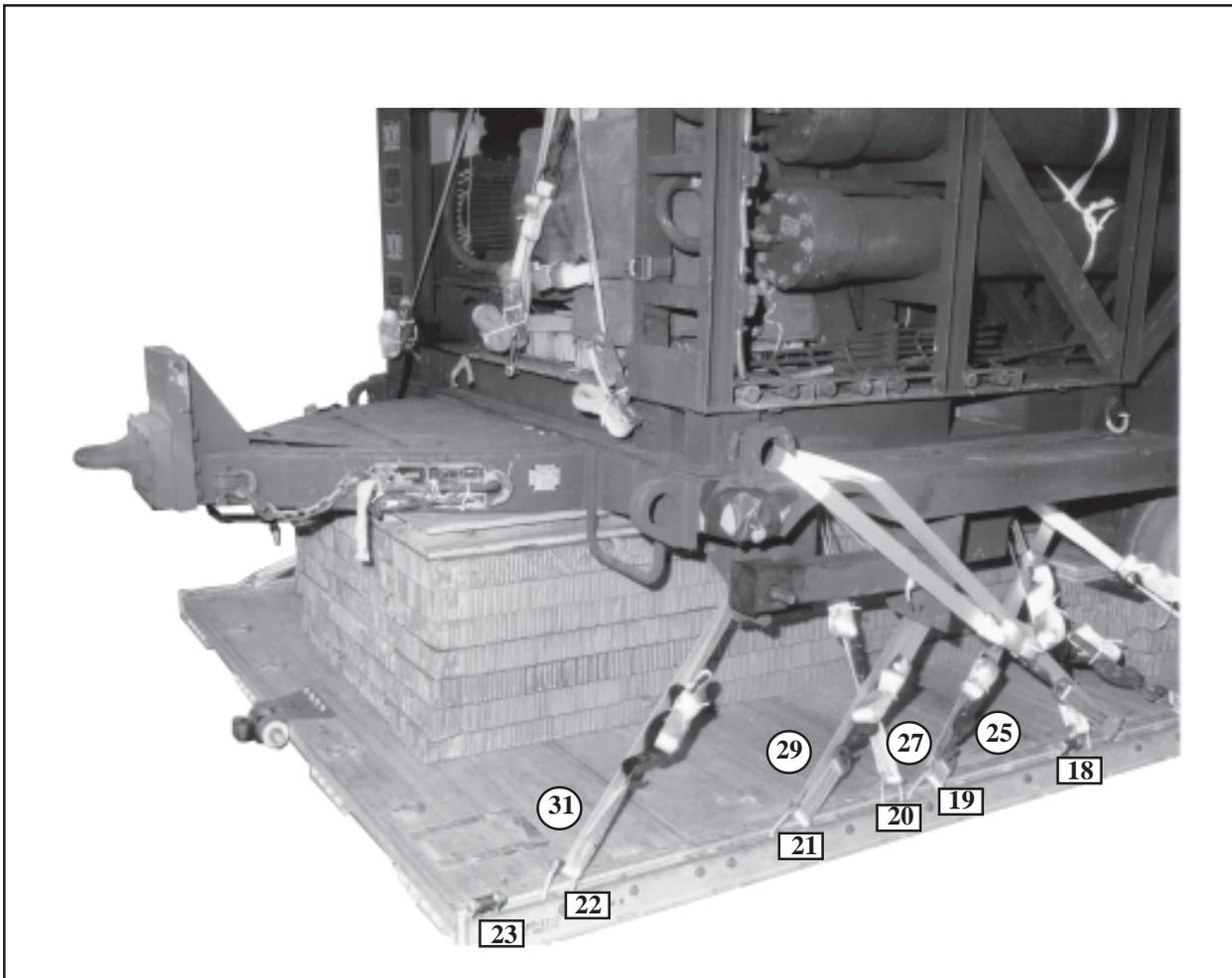
Lashing Number	Tiedown Clevis Number	Instructions
1	1	Pass lashing through: Left rear tiedown eye of the ROWPU.
2	1A	Right rear tiedown eye of the ROWPU.
3	6	Right rear tiedown eye of the ROWPU.
4	6A	Left rear tiedown eye of the ROWPU.
5	8	Around rear axle.
6	8A	Around rear axle.
7	9	Tiedown provision number 4 right side.
8	9A	Tiedown provision number 4 left side.

Figure 3-24. Lashings 1 through 8 installed



Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing through:
9	10	Tiedown provision number 3 right side.
10	10A	Tiedown provision number 3 left side.
11	11	Rear lifting eye.
12	11A	Rear lifting eye.
13	12	Tiedown provision number 4 right side.
14	12A	Tiedown provision number 4 left side.
15	13	Around leaf spring.
16	13A	Around leaf spring.
17	14	Tiedown provision number 2 right side .
18	14A	Tiedown provision number 2 left side.
19	15	Tiedown provision number 1 right side.
20	15A	Tiedown provision number 1 left side.
21	16	Front lifting eye.
22	16A	Front lifting eye.
23	17	Tiedown provision number 2 right side.
24	17A	Tiedown provision number 2 left side.

Figure 3-25. Lashings 9 through 24 installed



Lashing Number	Tiedown Clevis Number	Instructions
25 26 27 28 29 30 31 32	19 19A 20 20A 21 21A 22 22A	Pass lashing through: Tiedown provision 3 right side. Tiedown provision 3 left side. Tiedown provision 1 right side. Tiedown provision 1 left side. Tiedown provision 2 right side. Tiedown provision 2 left side. Tiedown provision 1 right side. Tiedown provision 1 left side.

Figure 3-26. Lashings 25 through 32 installed

3-7. Constructing End Boards and Stowing and Lashing Tires

Construct the end boards and stow and lash the tires as described below.

- a. Construct two end boards using two pieces of 3/4-inch by 36-inch by 48-inch plywood as shown in Figure 3-27.
- b. Stow and lash the tires as shown in Figure 3-28.

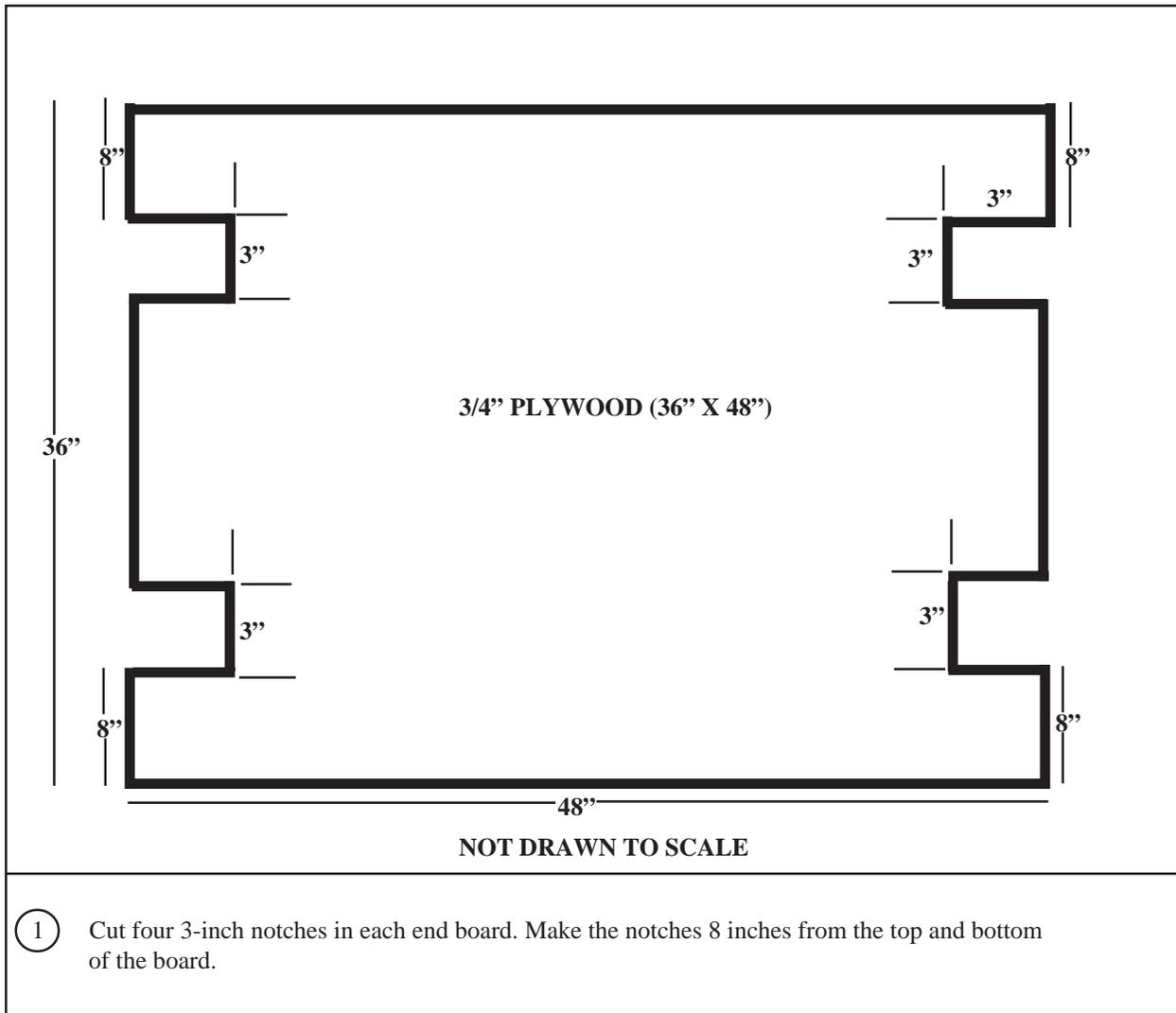
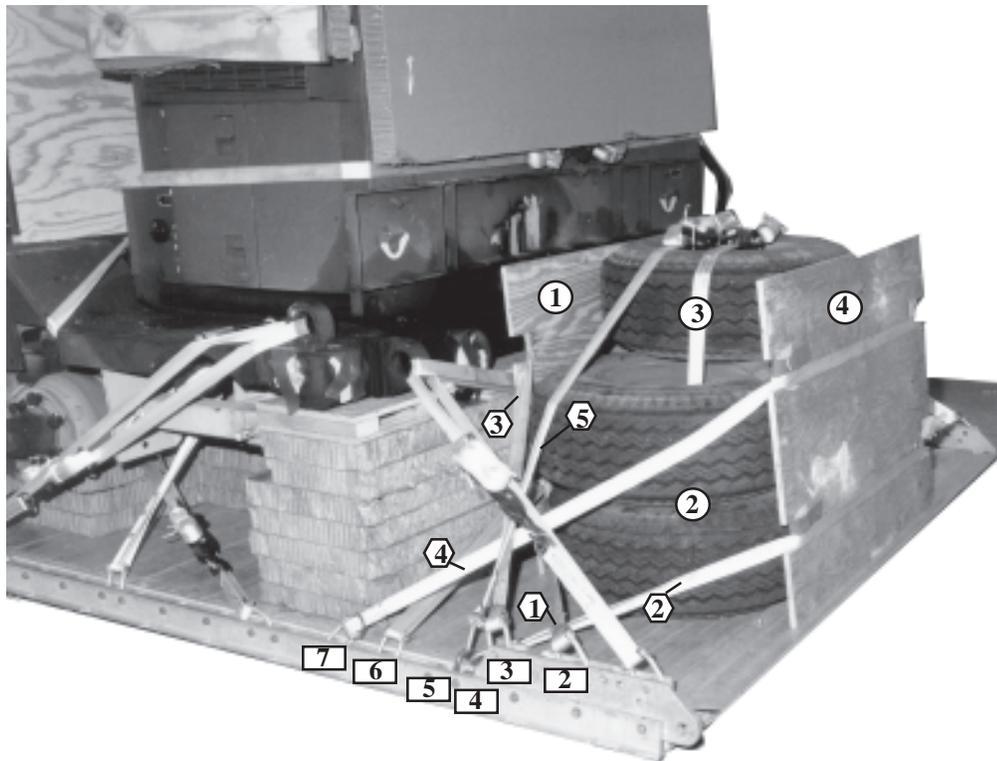


Figure 3-27. End boards constructed



- ① Set one end board against the rear of the ROWPU.
- ② Stow the five tires on the front of the platform against the end board.
- ③ Pass a lashing through the centers of the tires, and secure the tires together.
- ④ Set the other end board against the front of the tires.

Lashing Number	Tiedown Clevis Number	Instructions
1	2 to 2A	Pass lashing through: Its own D-ring through the rear bottom cutouts to clevis 2A.
2	4 to 4A	Its own D-ring through the front bottom cutouts to clevis 4A.
3	3 to 3A	Its own D-ring through the rear top cutouts to clevis 3A.
4	7 to 7A	Its own D-ring through the front top cutouts to clevis 7A.
5	5 to 5A	Clevis 5 and its own D-ring and run over the top of the tires. Pass second lashing through clevis 5A and its own D-ring and run over the top of the tires and secure to lashing from clevis 5 on top of the tires with load binder.

Figure 3-28. Lashings 1 through 5 installed

3-8. Constructing and Installing Parachute Stowage Platform

Construct and install parachute stowage platform as shown in Figure 3-30 and as described below.

a. Construct the honeycomb stacks as shown in Figure 3-29.

b. Construct the stowage platform as shown in Figure 3-30.

c. Lash the stowage platforms as shown in Figure 3-31.

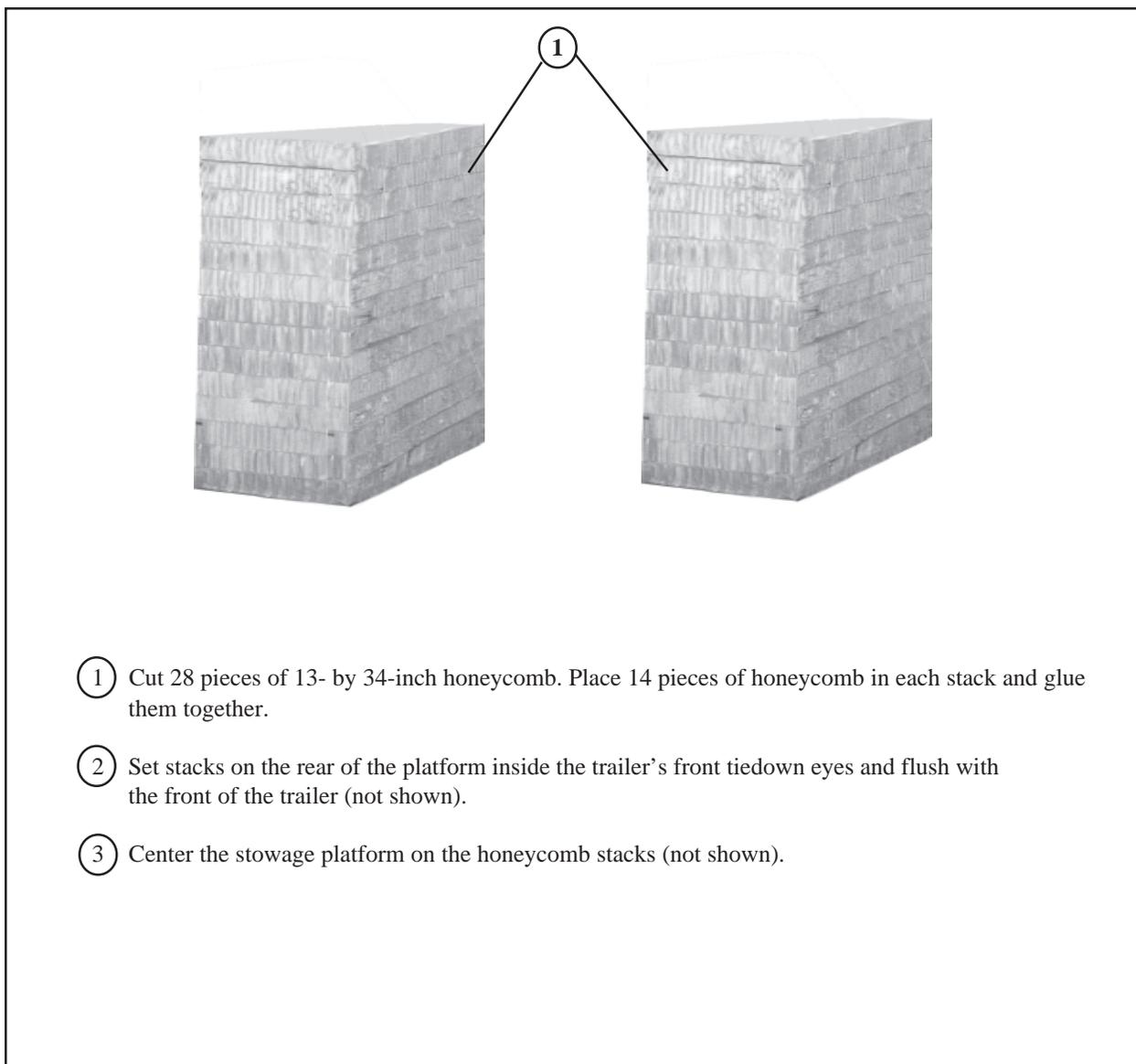
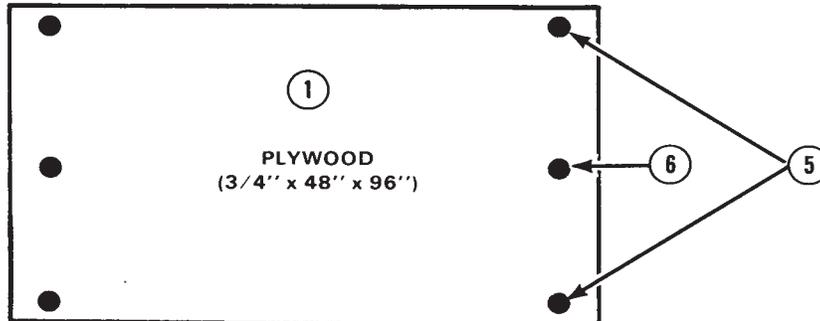


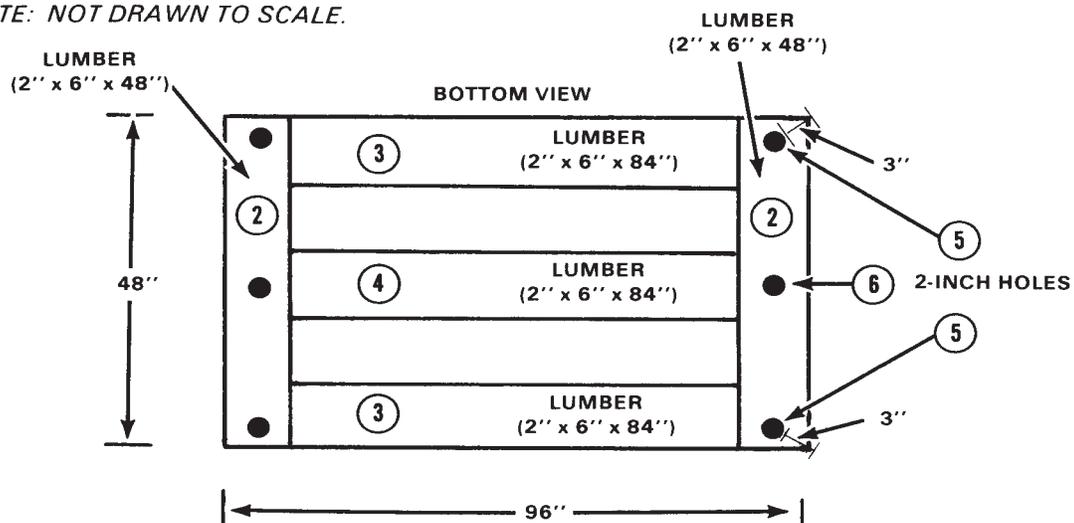
Figure 3-29. Parachute platform stack prepared

NOTE: NOT DRAWN TO SCALE.

TOP VIEW



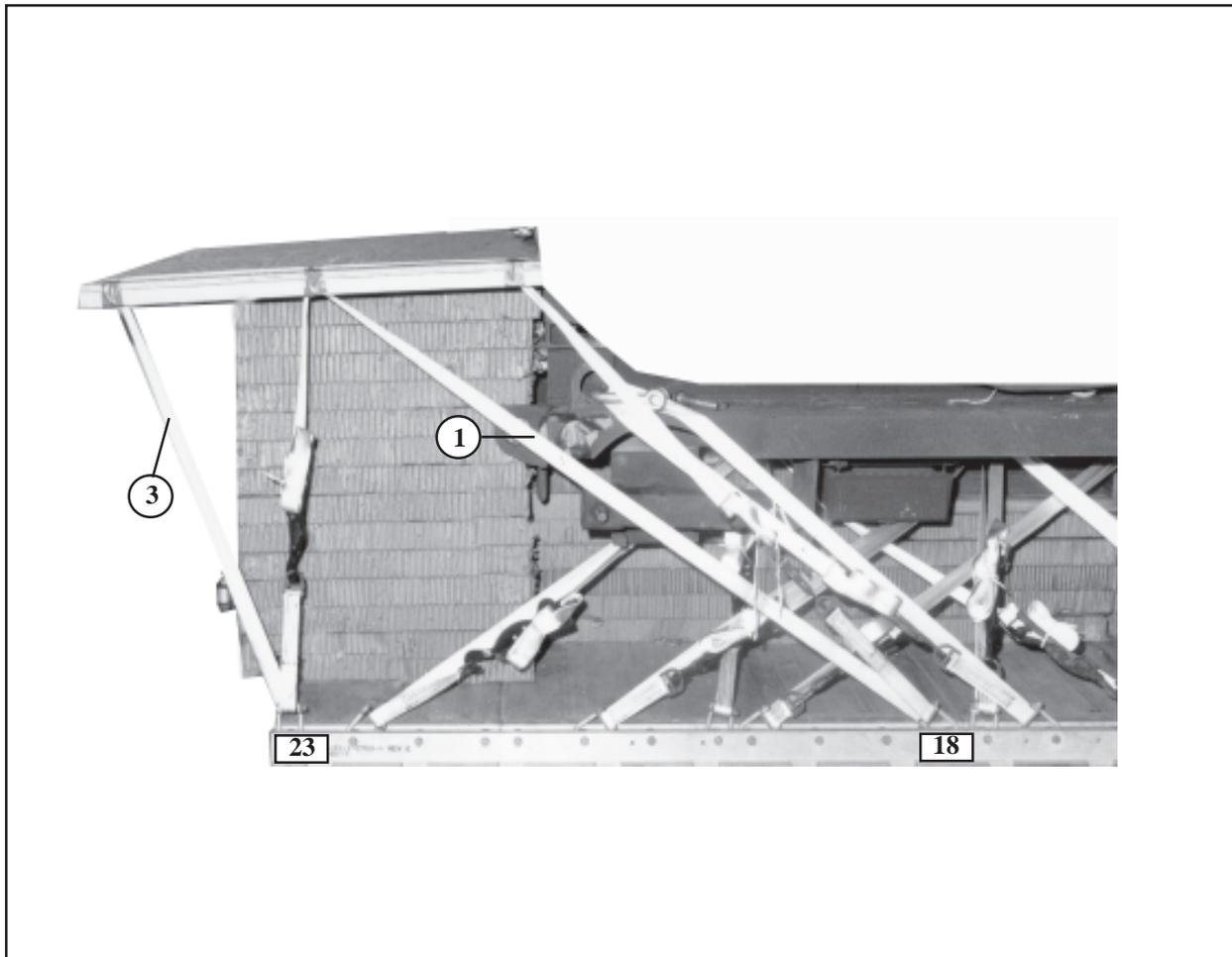
NOTE: NOT DRAWN TO SCALE.



- ① Start construction of the parachute stowage platform with a 3/4- by 48- by 96-inch piece of plywood.
- ② Nail a 2- by 6- by 48-inch piece of lumber along each 48-inch side of the plywood.
- ③ Nail a 2- by 6- by 84-inch piece of lumber along each 48-inch side of the plywood.
- ④ Center a 2- by 6- by 84-inch piece of lumber between the other two 2- by 6- by 84-inch pieces of lumber, and nail it to the plywood.
- ⑤ Drill 2-inch holes 3 inches from each corner.
- ⑥ Drill one 2-inch hole centered between the corner holes on each 48-inch side of the plywood.

NOTE: ALL NAILING IS DONE FROM THE PLYWOOD SIDE TO MAINTAIN A SMOOTH SURFACE.

Figure 3-30. Parachute stowage platform constructed

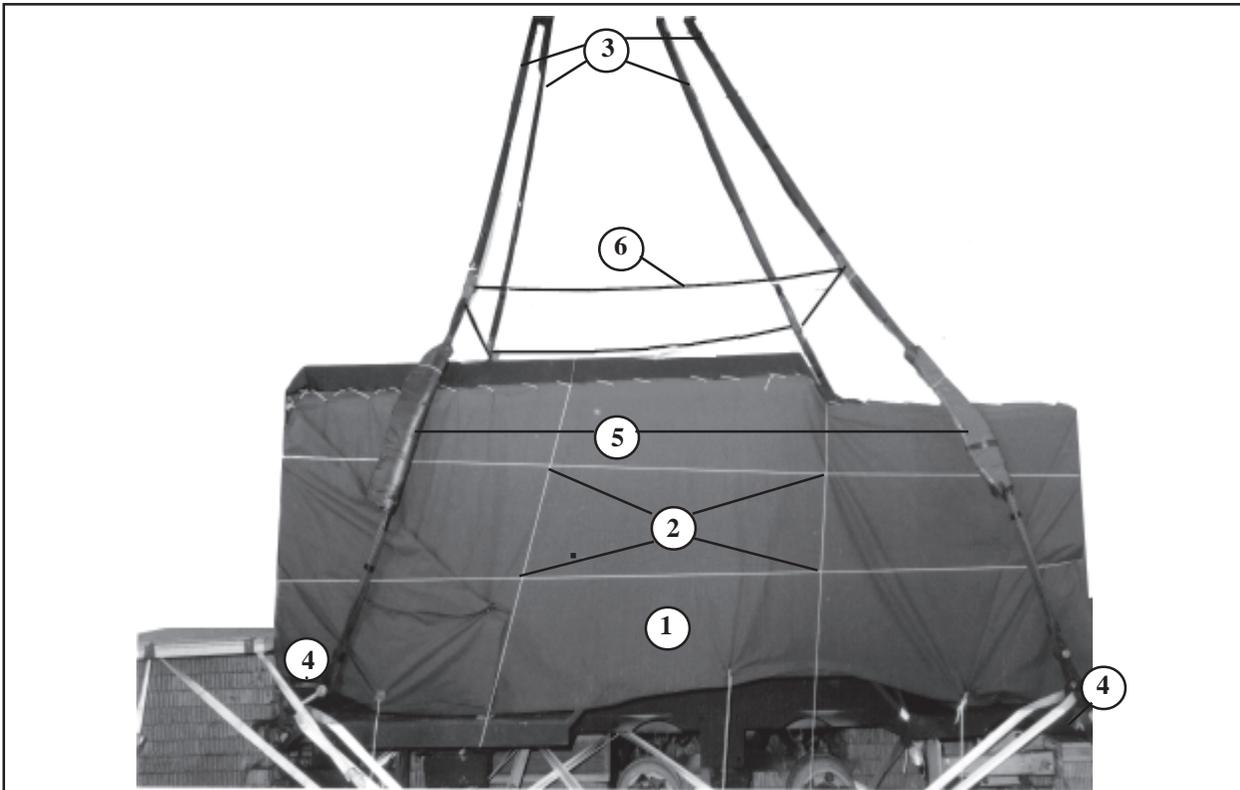


Lashing Number	Tiedown Clevis Number	Instructions
1	18	Pass lashing through: The right front hole down through the right center hole to clevis 18.
2	18A	The left front hole down through the left center hole to clevis 18A.
3	23	The right rear hole down through the center hole to clevis 23.
4	23A	The left rear hole down through the left center hole to clevis 23A.

Figure 3-31. Lashings 1 through 4 on stowage platform installed

3-9. Installing Load Cover, Deadman's Tie and Suspension Slings

Cover the load and install the suspension slings and deadman's tie as shown in Figure 3-32.

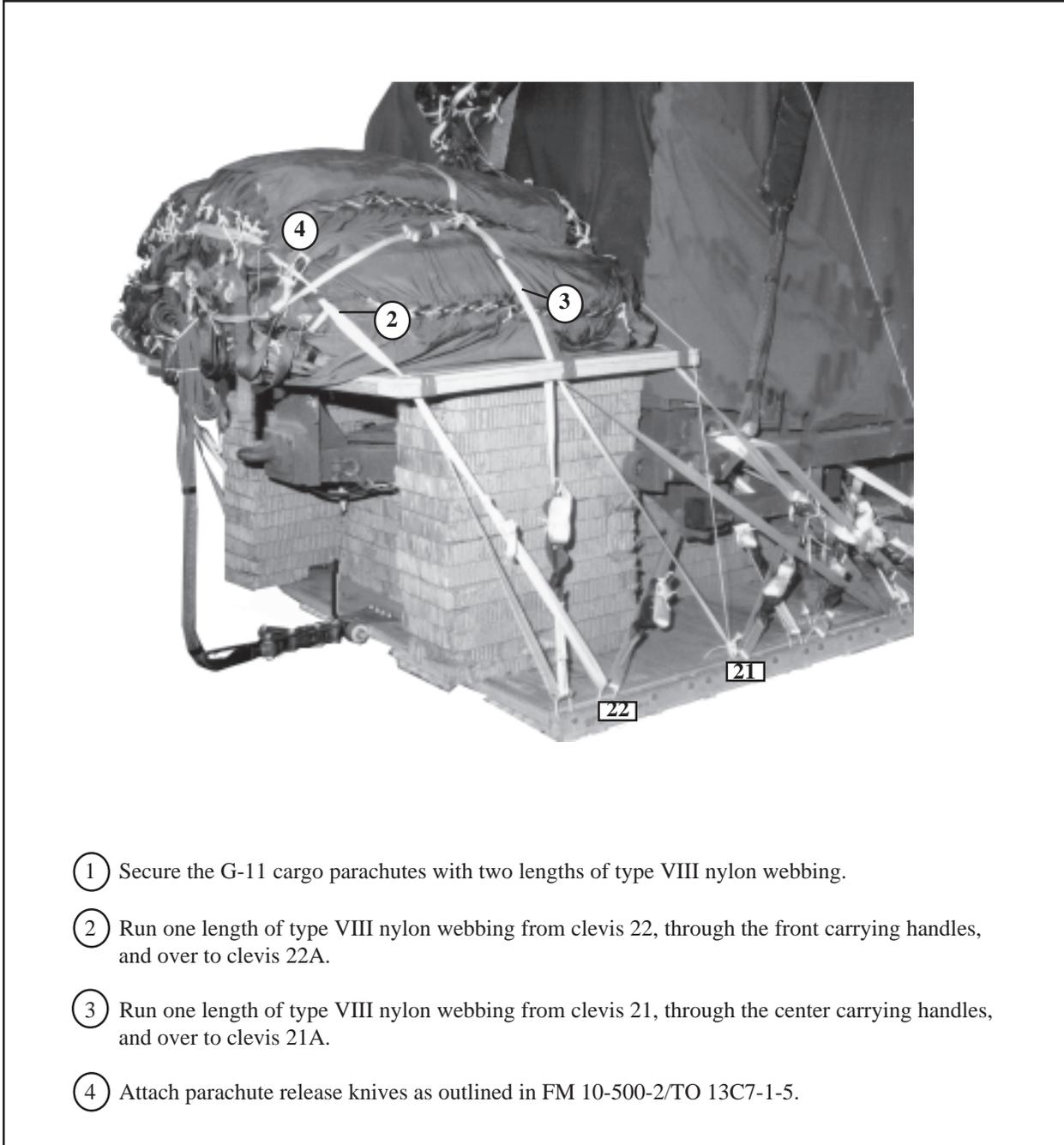


- ① Place a 17- by 35-foot canvas cover over the load from the generator to the front of the ROWPU.
- ② Secure the cover in place with ties of type III nylon cord.
- ③ Use four 16-foot (4-loop), type XXVI nylon slings as the suspension slings.
- ④ Attach a sling to each lifting point with a large clevis. Attach the clevis with the bell of the clevis through the lifting point, and secure the bolt through the plies of the sling.
- ⑤ Use four 36-by 10-inch pieces of felt to pad the slings where they come in contact with the top of the ROWPU.
- ⑥ Install the deadman's tie as outlined in FM 10-500-2/TO 13C7-1-5.

Figure 3-32. ROWPU covered and suspension slings installed

3-10. Stowing Cargo Parachutes

Stow five G-11 cargo parachutes on the load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 3-33.

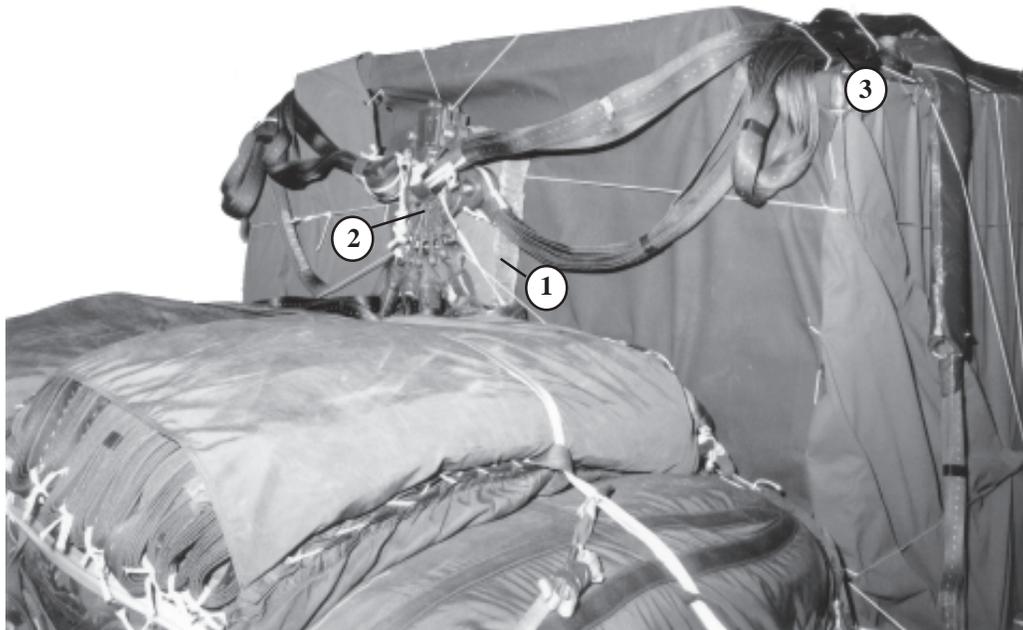


- ① Secure the G-11 cargo parachutes with two lengths of type VIII nylon webbing.
- ② Run one length of type VIII nylon webbing from clevis 22, through the front carrying handles, and over to clevis 22A.
- ③ Run one length of type VIII nylon webbing from clevis 21, through the center carrying handles, and over to clevis 21A.
- ④ Attach parachute release knives as outlined in FM 10-500-2/TO 13C7-1-5.

Figure 3-33. Cargo parachutes stowed

3-11. Installing M-2 Parachute Release Assembly

Install the M-2 parachute release assembly according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 3-34.



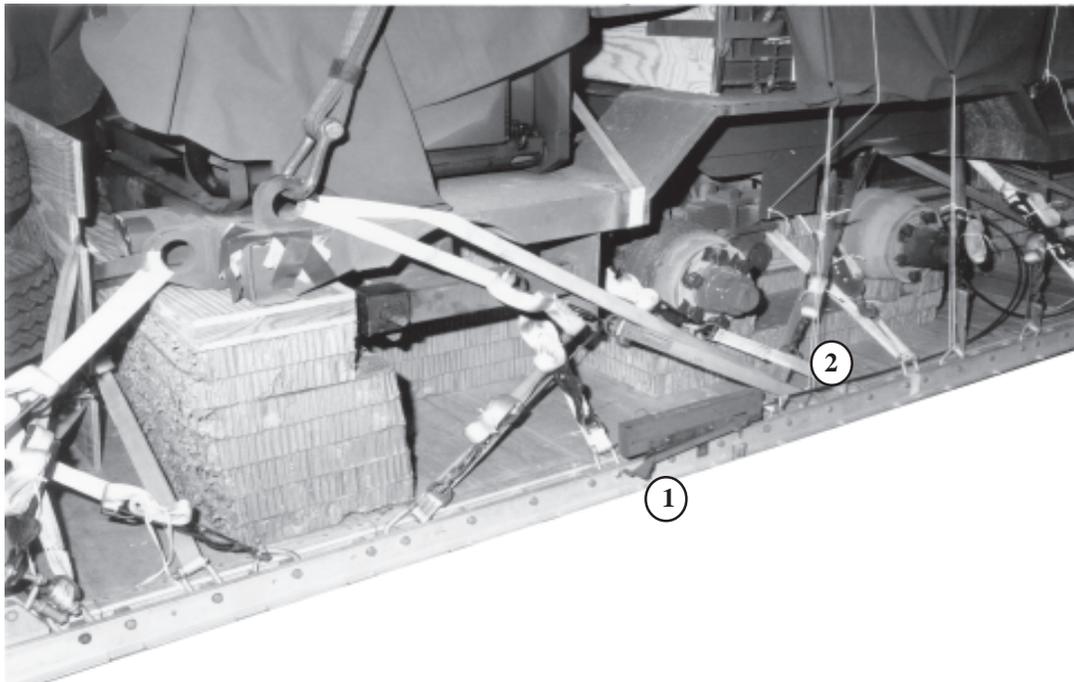
- ① Cut and secure a 24- by 24 inch piece of honeycomb on top of and centered on the front of the ROWPU.
- ② Position and install the M-2 release assembly against the honeycomb and safety it to the load in accordance with FM 10-500-2/TO 13C7-1-5.
- ③ Fold and tie any slack in the suspension slings with type I, 1/4- inch cotton webbing.

Note: Slings must be safetied in a manner as to not increase the height of the load.

Figure 3-34. M-2 release assembly installed

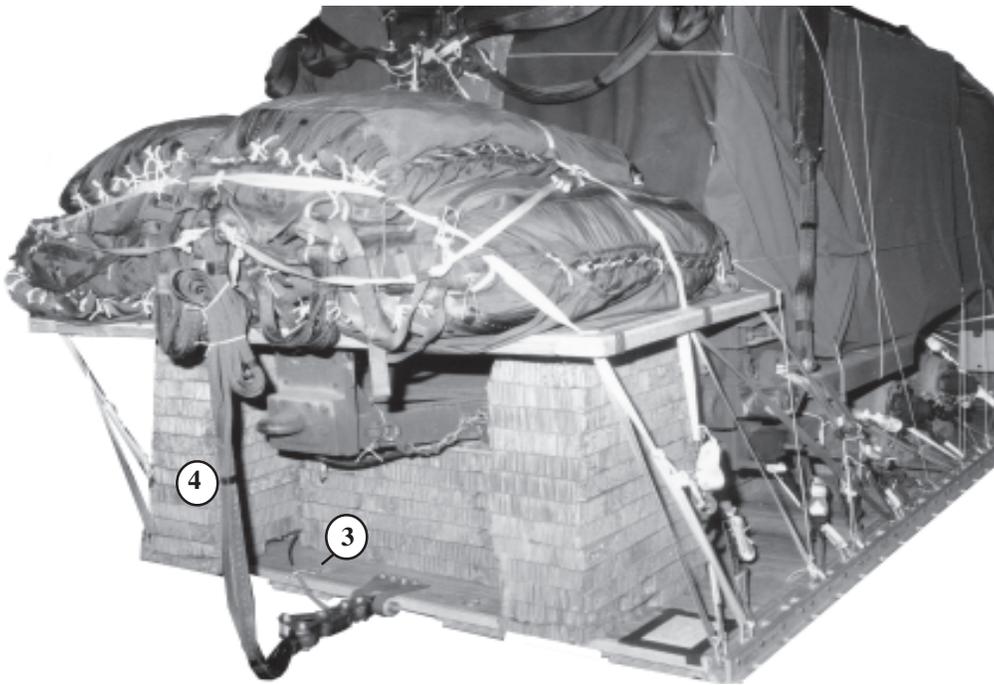
3-12. Installing Extraction System

Install the extraction system according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 3-35.



- ① Bolt the actuator bracket using the rear mounting holes on the left side rail.
- ② Attach a 20-foot release cable to the actuator assembly. Install actuator assembly to the actuator bracket.

Figure 3-35. Extraction system installed



③ Safety cable to tiedown ring C10 with type I, 1/4-inch cotton webbing.

④ Use a 9-foot (2-loop), type XXVI nylon sling as a deployment line.

Figure 3-35. Extraction system installed (continued)

3-13. Installing Provisions for Emergency Restraints

Select and install provisions for the emergency aft restraints according to the emergency aft restraints requirements table in FM 10-500-2/TO 13C7-1-5.

3-14. Placing Extraction Parachutes

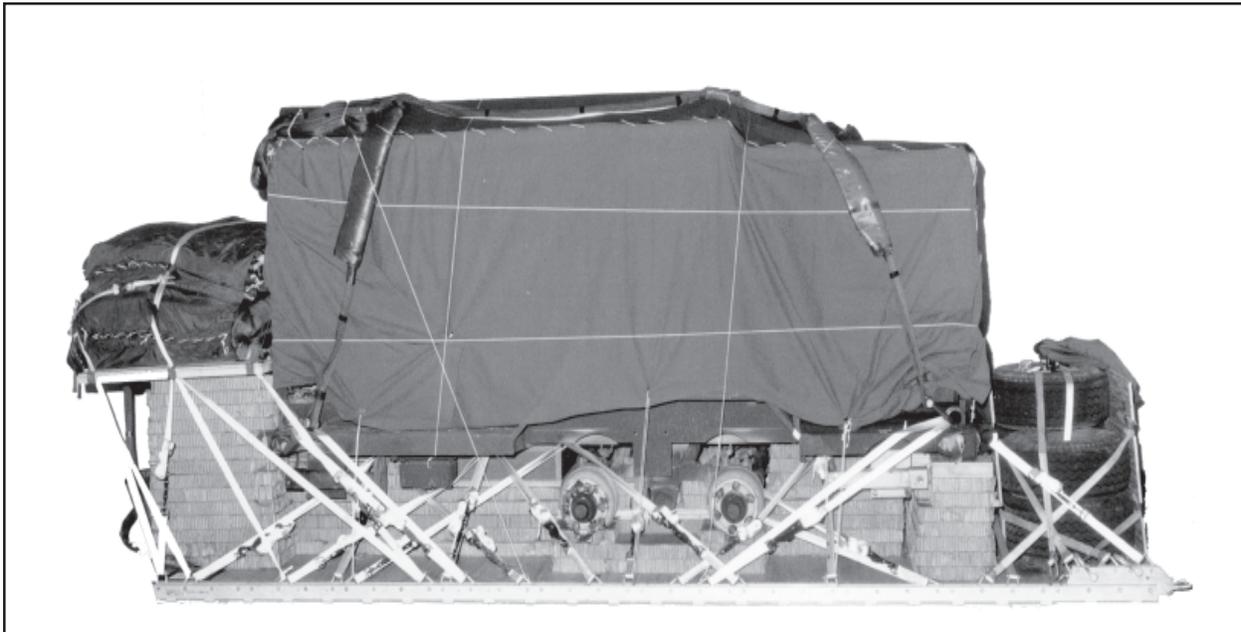
Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 10-500-2/TO 13C7-1-5. Place the line on the load for installation in the aircraft.

3-15. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 3-36. Complete Shipper's Declaration For Dangerous Goods form. If the load varies from the one shown, the weight, height, CB tip off curve, and parachute requirements must be recomputed.

3-16. Equipment Required

The equipment required to rig this load is listed in Table 3-1.



RIGGED LOAD DATA

WEIGHT.....	21,780 pounds
MAXIMUM WEIGHT.....	23,030 pounds
HEIGHT.....	101 inches
WIDTH.....	108 inches
LENGTH.....	275 inches
OVERHANG.....	Front 5 inches Rear 35 inches
CENTER OF BALANCE.....	From the front edge of the platform: 130 inches

Figure 3-36. ROWPU rigged for low-velocity airdrop on a type V platform

Table 3-1. Equipment required for rigging the ROWPU for low-velocity airdrop on a type V platform

National Stock Number	Item	Quantity
1670-00-162-4979	Adapter, link assembly	1
8040-00-273-8713	Adhesive, paste, 1-gal	As required
4030-00-090-5354	Clevis assembly, suspension, large	6
8305-00-242-3593	Cloth, cotton duck, 60-inch	6 yd
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5787	Coupling, airdrop, extraction force transfer w 20-ft cable	1
1670-00-783-5988	Link assembly, type IV	15
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
8305-00-958-3685	Felt, 1/2- inch thick	As required
1670-01-183-2678	Leaf, extraction line (line bag)	2
1670-01-062-6313	Line, extraction 60-ft (3-loop), type XXVI nylon webbing (C130)	1
1670-01-107-7651	140-ft (3-loop), type XXVI nylon webbing (C141)	1
5510-00-220-6146	Lumber, 2-inch: 4- by 14-in	2
	4- by 18-in	6
	4- by 58-in	4
5510-00-220-6148	6- by 26-in	1
	6- by 48-in	2
	6- by 84-in	3
5510-00-220-6246	8- by 26-in	2
	8- by 48-in	2
5315-00-010-4657	Nail, steel wire, common, 6d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb 3- by 96-in:	16 sheets
	6- by 12-in	8
	6- by 26-in	1
	8- by 13-in	6
	8- by 16-in	3
	10- by 12-in	8
	10- by 13-in	1
	12- by 52-in	2
	13- by 34-in	28
	18- by 24-in	1
	18- by 96-in	7

Table 3-1. Equipment required for rigging the ROWPU for low-velocity airdrop on a type V platform (cont)

National Stock Number	Item	Quantity
	19- by 34-in	2
	12- by 24-in	2
	24- by 52-in	4
	34- by 48-in	8
	36- by 48-in	4
	48- by 58-in	2
	48- by 88-in	5
	Parachutes	
1670-00-040-8135	Cargo extraction, 28-ft, heavy duty	1
1670-01-016-7841	Cargo, G-11	5
	Platform, AD, type V, 20-ft:	1
	Bracket:	
1670-01-162-2372	clevis, load tiedown	46
1670-01-353-8425	extraction bracket assembly	1
	coupling	1
1670-01-162-2381	tandem link	2
1670-01-162-2385	nose bumper	1
5530-00-128-4981	Plywood, 3/4-in	
	12- by 23-in	8
	12- by 52-in	2
	18- by 96-in	2
	19- by 34-in	2
	30- by 48-in	2
	36- by 48-in	2
	48- by 58-in	2
	48- by 58-in	2
	48- by 96-in	1
1670-01-097-8817	Release. cargo parachute, M-2 (modified)	1
	Sling, cargo, airdrop:	
	For deployment:	
1670-01-062-6311	9-ft (2-loop), type XXVI nylon webbing	1
	For suspension:	
1670-01-062-6308	16-ft (4-loop), type XXVI nylon webbing	4
	For riser extension:	
1670-00-062-6302	20-ft (2-loop), type XXVI nylon webbing	20
1670-01-062-6301	3-ft, (2-loop)	2
1670-00-836-2231	Strap, parachute release, multicut, comes with 3 knives	2

Table 3-1. Equipment required for rigging the ROWPU for low-velocity airdrop on a type V platform (cont)

National Stock Number	Item	Quantity
7510-00-266-5016 1670-00-266-5016	Tape, adhesive, 2-in Tiedown assembly, 15-ft	As required 46
8305-00-268-2411 8305-00-082-5752 8305-00-261-8584	Webbing: Cotton, 80-lb Nylon, tublar, 1/2-in Nylon, type VIII	As required As required As required

REFERENCES

These documents must be available to the intended users of this publication.

*AFJMAN 24-204/TM 38-250. Packaging and Materials Handling: Hazardous Material for Military Air Shipments. 01 March 1997.

FM 10-500-2/TO 13C7-1-5. Airdrop of Supplies and Equipment: Rigging Airdrop Platforms. 01 November 1990.

TM 10-1670-208-20&P/TO 13C3-4-12. Organizational Maintenance Manual Including Repair Parts and Special Tools List for Platforms, Type II Modular and LAPES/Airdrop Modular. 10 August 1978.

AFTO Form 22. Technical Order Publication Improvement Report. April 1973.

DA Form 2028. Recommended Changes to Publications and Blank Forms. April 1973.

**Shipper's Declaration for Dangerous Goods. Locally Procured Form.

*AFJMAN 24-204/TM 38-250 has superseded AFJMAN 24-204 (25 November 1994). Change 1 reflects this change. The basic manual still references the superseded publication. You may wish to make pen and ink changes to update the old reference citation accordingly.

**Shipper's Declaration for Dangerous Goods has superseded DD Form 1387-2 (February 1982). Change 1 reflects this change. The basic manual still references the superseded publication. You may wish to make pen and ink changes to update the old reference citation accordingly.