

LOADING & BRACING (TL & LTL) IN CLOSED OR OPEN TOP VAN TRAILERS OF MINE DISPERSING SYSTEM, AIRCRAFT, XM47, PACKED IN THE XM551 CONTAINER

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GENERAL NOTES

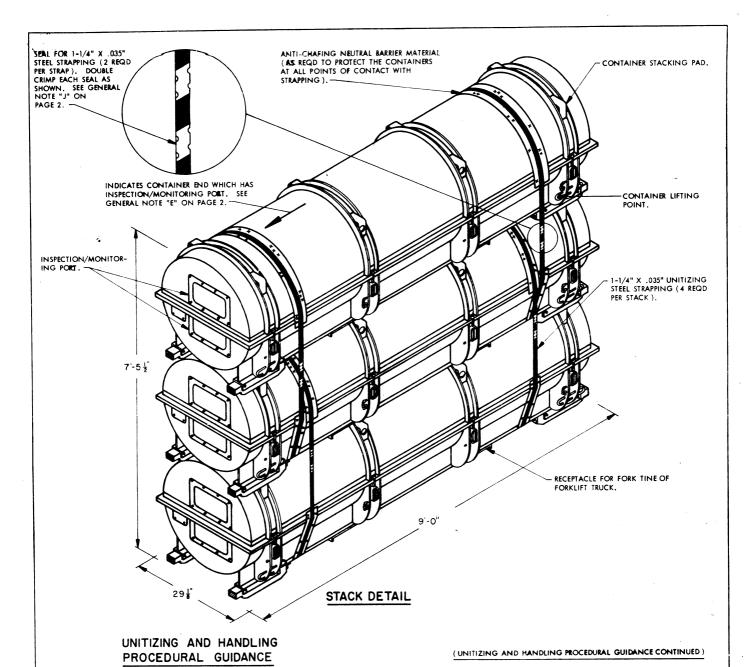
- A. THE LOAD AS SHOWN ON PAGE 4 IS BASED ON A CLOSED OR OPEN TOP VAN TRAILER 35'-0" LONG X 7'-6" WIDE (INSIDE DIMENSION) HAVING A WOOD OR A WOOD AND METAL, OR A METAL FLOOR. THE DELINEATED PROCEDURES ARE ALSO APPLICABLE TO LONGER TRAILERS AND TO TRAILERS WHICH ARE 89". THROUGH 93" WIDE. A 33'-0" LONG TRAILER IS THE MINIMUM LENGTH TRAILER WHICH CAN BE USED FOR SHIPPING A 21-UNIT LOAD. CAUTION: IF A TRAILER IS TO BE LOADED THROUGH THE REAR DOOR OPENING, THE HEIGHT OF THE DOOR OPENING, MEASURED FROM THE TRAILER FLOOR TO THE TOP FRAME MEMBER, MUSTL.BE AT LEAST 90". TO ALLOW FOR THE PASSAGE OF 3-HIGH CONTAINER STACKS.
- B. THE OUTLOADING PROCEDURES SPECIFIED HEREIN ARE APPLICABLE TO THE XM47 AIRCRAFT MINE DISPERSING SYSTEM WHEN PACKAGED IN THE XM55I SERIES CON-TAINER. SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE XM55I CONTAINER WITH CONTENTS.
- C. FOR DETAILS OF THE XM551 CONTAINER SEE DRAWING NO. 9206909:

CONTAINER DIMENSIONS -- 108" LONG X 29-1/8" WIDE X 31-1/2" HIGH. GROSS WEIGHT ------ 1,140 POUNDS (APPROX). TARE WEIGHT ------- 500 POUNDS (APPROX).

- D. THIS ITEM IS AN ICC CLASS "A" EXPLOSIVE.
- E. THE "MONITORING" END OF CONTAINERS MUST BE POSITIONED WITHIN THE TRAILER AS SHOWN BY ARROWS ON THE ISOMETRIC VIEWS OF THE DEPICTED LOADS TO FACILITATE MONITORING DURING TRANSIT.
- F. GROSS WEIGHT AND AXLE DISTRIBUTION OF WEIGHT FOR A LOAD WILL BE THE RESPONSIBILITY OF THE CARRIER. THE CARRIER WILL ADVISE THE SHIPPER OF THE APPLICABLE LOADING REQUIREMENTS, AND THE SHIPPER WILL LOAD ACCORDINGLY.
- G. THE NUMBER OF UNITS MAY BE ADJUSTED TO FIT THE SIZE OF THE TRAILER TO BE LOADED OR THE QUANTITY TO BE SHIPPED, AND COMBINATIONS OF THE OUTLING AND COMBINATIONS OF THE OUTLING AND COMBINATIONS OF THE OUTLING AS REQUIRED, HOWEVER, THE APPROVED METHODS SHOWN HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE FOR BLOCKING, BRACING AND STAYING OF THE DESIGNATED ITEM.
- H. 1-1/4" STEEL STRAPPING WILL BE USED TO UNITIZE CONTAINERS AS SHOWN ON PAGE 3. IT IS RECOMMENDED THAT CONTAINERS BE UNITIZED PRIOR TO PLACEMENT ABOARD THE TRAILER. SEE GENERAL NOTE "P" BELOW.
- J. WHEN ANY STRAP IS SEALED AT AN END-OVER-END LAP JOINT, A MINIMUM OF TWO (2 * SEALS WITH TWO (2) CRIMPS PER SEAL MUST BE USED.
- K. FOR TRAILERS NOT EQUIPPED WITH REAR CORNER POSTS, REAR BLOCKING MUST BE EXTENDED TO CONTACT THE REAR DOORS WHEN THEY ARE CLOSED.
- L. OTHER TYPES OF LADING ITEMS MAY BE LOADED IN THE TRAILERS WHICH ARE PARTIALLY LOADED WITH THE DESIGNATED ITEM, PROVIDING THE TOTAL LOAD IS COMPATIBLE, EXISTING DIRECTIVES ARE NOT VIOLATED, THE INSPECTION/MONITORING PORT OF THIS ITEM IS ACCESSIBLE, AND THE OTHER LADING ITEMS ARE BLOCKED AND BRACED TO EQUAL THE BLOCKING AND BRACING CRITERIA SPECIFIED
- M. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 2" X 4" MATERIAL IS ACTUALLY 1-5/8" THICK BY 3-5/8" WIDE AND 1" X 4" MATERIAL IS ACTUALLY 3/4" THICK BY 3-5/8" WIDE.
- N. PORTIONS OF THE SEMITRAILER BODIES DEPICTED WITHIN THIS PROCEDURAL DRAWING, SUCH AS ONE OF THE SIDE WALLS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.
- O. FOR SPECIFIC GUIDANCE, ATTENTION IS DIRECTED TO THE "UNITIZATION AND HANDLING PROCEDURES" ON PAGE 3 AND TO THE DELINEATED OUTLOADING METHODS CONTAINED HEREIN.
- P. IN SOME INSTANCES, CONTAINERS WILL ALREADY BE UNITIZED INTO STACKS WHEN OFFERED FOR LOADING. THESE UNITIZED STACKS SHOULD BE INSPECTED AND AS REQUIRED, LOOSE UNITIZING STEEL STRAPPING MUST BE REPLACED.

MATERIAL SPECIFICATIONS

LUMBER:	SEE TM 715-5500-1, DUNNAGE LUMBER; FED SPEC MM-L-751.
NAILS:	COMMON, CEMENT COATED OR CHEMICALLY ETCHED, FED SPEC FF-N-105. ALT: ANNULAR-RING TYPE NAIL OF SAME SIZE.
STRAPPING, STEEL:	TYPE I OR IV, CLASS A OR B, FED SPEC QQ-S-781.
ANTI-CHAFING MATERIAL	NEUTRAL BARRIER MATERIAL, MIL-B-121 (OR EQUAL).



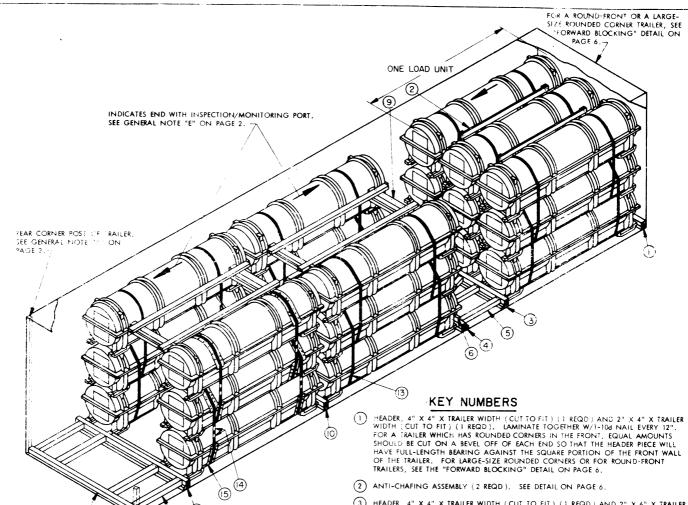
STACKING CONTAINERS FOR UNITIZING.

- A. AN UPPER CONTAINER SHOULD BE PLACED AS CLOSE AS POSSIBLE IN VERTICAL ALIGNMENT WITH THE NEXT LOWER CONTAINER.
- B. POSITION THE INSPECTION/MONITORING PORT OF AN UPPER CONTAINER ABOVE THE INSPECTION/MONITORING PORT OF THE NEXT LOWER CONTAINER. SEE GENERAL NOTE "E" ON PAGE 2.
- INSTALLATION OF 1-1/4" X .035" UNITIZING STEEL STRAPPING. SEE GENERAL NOTE "P"
 - ON PAGE 2.

 A. EACH OF THE TWO SETS OF UNITIZING STRAPS SHOULD BE POSITIONED AROUND THE CONTAINERS AS SHOWN. PLACE STRAPPING AS NEAR AS PRACTICAL TO THE INSIDE ENDS OF THE SKIDS. THE STRAPPING SHOULD LAY FLAT AND STRAIGHT WITH THE CONTOUR OF THE CONTAINERS; I.E., VERTICAL ALONG SIDES AND STRAIGHT ACROSS THE TOP AND BOTTOM OF THE STACK.
 - PLACE ANTI-CHAFING MATERIAL UNDER THE STRAPPING AT ALL POINTS OF STRAPPING/CONTAINER CONTACT, AND SECURE TO PREVENT DISLODGEMENT DURING AND AFTER STRAP APPLICATION. STRIPS OF ANTI-CHAFING MATERIAL MAY BE TAPED OR STRING-TIED TO THE CONTAINERS OR STRAPPING, OR IT CAN BE FORMED INTO STRAP ENCIRCLING TUBES BY WINDING THE MATERIAL AROUND AND AROUND THE STRAPPING TO COPM. A SEE MUIDING THE MATERIAL AROUND AND AROUND THE STRAPPING TO FORM A SELF-MOLDING UNIT.
 - C. STRAPPING WILL BE FIRMLY TENSIONED, AND EACH END-OVER-END LAP JOINT WILL BE SEALED WITH TWO DOUBLE CRIMPED STRAP SEALS AS SHOWN. THE LAP JOINTS WILL BE MADE ALONG THE SIDE OF A STACK SO THAT THE SEALS WILL NOT BE IN CONTACT WITH THE CONTAINERS. DURING STRAP TENSIONING, CARE SHOULD BE EXERCISED TO INSURE THAT THE CONTAINERS ARE NOT DAMAGED. EXCESS STRAPPIN (STRAP ENDS) SHOULD BE CUT OFF OR BROKEN OFF NEAR THE JOINT SEALS. EXCESS STRAPPING

- 3 CONTAINER OR CONTAINER STACK HANDLING.
 - NOTES: (1) APPROVED MATERIALS HANDLING EQUIPMENT (FORKLIFT TRUCKS, CRANES, HAND TRUCKS, DOLLIES, ROLLER ASSEMBLIES, SLINGS, SPREADER BARS, ETC.) IS SPECIFIED ELSEWHERE.
 - (2) PRECAUTIONARY HANDLING TECHNIQUES NORMALLY EMPLOYED OR AS SPECIFIED FOR THE TYPE OF COM-MODITY INVOLVED WILL BE OBSERVED.
 - A. ONLY APPROVED AND APPROPRIATELY SIZED MATERIALS HANDLING EQUIPMENT WILL BE USED FOR HANDLING THE DEPICTED CON-
 - IF HANDLING IS ACCOMPLISHED WITH A FORKLIFT TRUCK. THE IF HANDLING IS ACCOMPLISHED WITH A FORKLIFT TRUCK, THE CONTAINERS SHOULD BE HANDLED FROM A SIDE POSITION. CAUTION: THE USUALLY APPLIED BND-HANDLING IS NOT PERMITTED, FORK TINES MAY BE PLACED UNDER THE SKIDS. CARE MUST BE EXERCISED WHEN INSERTING FORKS UNDER A CONTAINER, TO PREVENT DAMAGE TO THE CONTAINER BY THE FORK TINES OR THE FORKLIFT PACKAGE GUARD. FOR VERY SHORT "INCHING" SPEED MOVEMENTS, SUCH AS WILL BE EXPERIENCED DURING TRAILER LOADING, A UNITIZED TWO OR THREE CONTAINER STACK MAY BE HANDLED BY INSERTING THE FORKS OF THE FORKLIFT TRICK INDER THE BODY OF AN UPPER CONTAINER. TRUCK UNDER THE BODY OF AN UPPER CONTAINER.
 - C. IF ONE CONTAINER IS HANDLED BY SLINGING, THE SLING MAY IF ONE CONTAINER IS HANDLED BY SLINGING, IME SLING MAY BE ATTACHED TO THE LIFTING POINTS OF THE CONTAINER. HOWEVER, IF A 2 OR 3-HIGH STACK IS HANDLED BY SLINGING, DO NOT ATTACH THE SLING TO THE LITTING POINTS ON THE CONTAINERS. THE SLING USED MUST BE OF SUCH A DESIGN THAT LIFTING IS DONE ON THE BOTTOM OF THE LOWER CONTAINER.

UNITIZATION AND HANDLING PROCEDURES



ISOMETRIC VIEW

A 21-UNIT LOAD IN A 35'-0" LONG TRAILER IS SHOWN. SEE SPECIAL NOTE ! BELOW

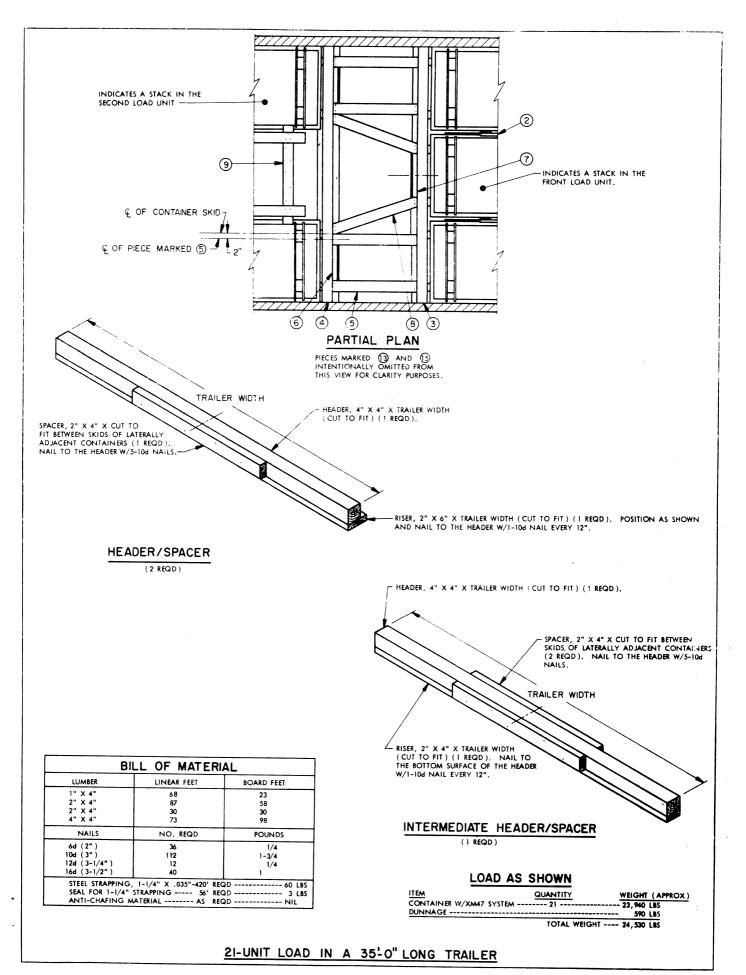
SPECIAL NOTES

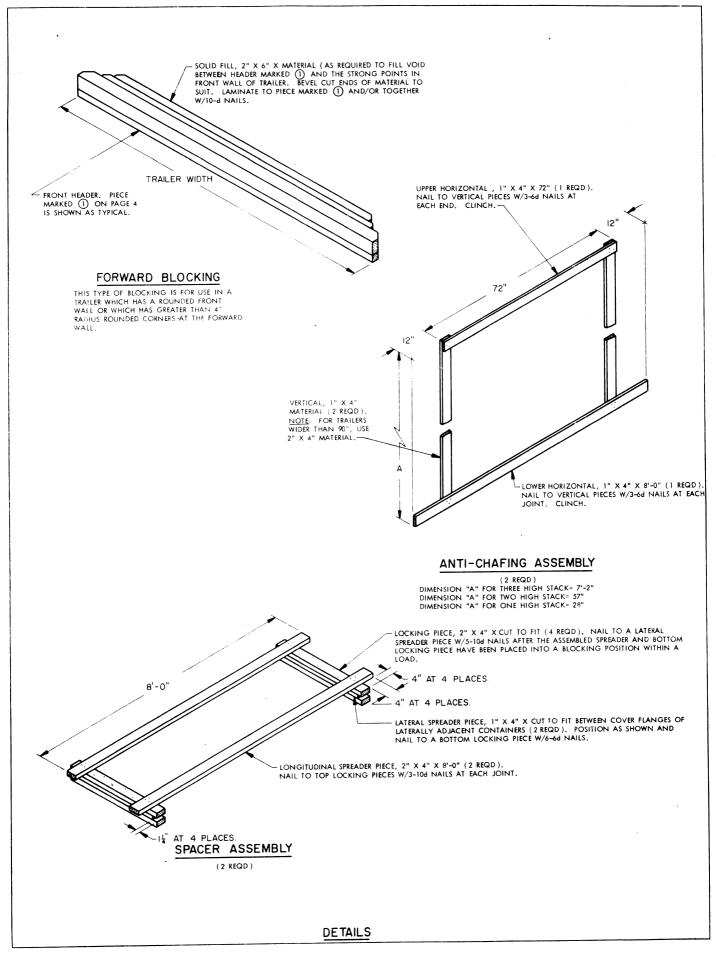
- FOR THE SHIPMENT OF A QUANTITY WHICH IS LESS THAN SHOWN, THE FOLLOWING IS APPLICABLE:

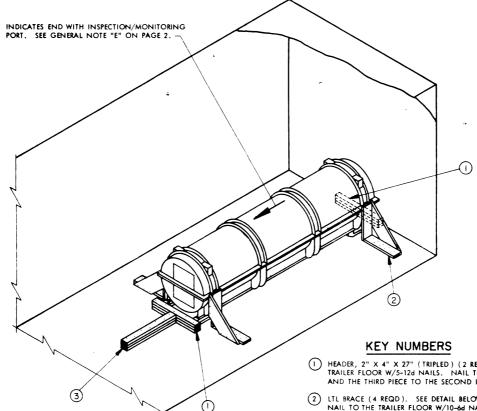
 - WHEN SHIPPING A 20-UNIT LOAD. OMIT THE CENTER THIRD-LAYER CONTAINER AT FRONT OF TRAILER. REDUCE HEIGHT OF PIECES MARKED (2) AS REQUIRED.
 - When shipping a 19 or 17-unit load, omit the two top containers from a two-wide load unit. Position the anti-sway assembly at t. e second layer.
 - C. WHEN SHIPPING ANY OTHER QUANTITY LOAD, USE A COMBINATION OF A AND B ABOVE, OR OMIT A COMPLETE LOAD UNIT, OR OMIT THE CENTER STACK FROM THE FRONT LOAD UNIT WHICH THEN CAN BE BLOCKED AND BRACED LIKE THE OTHER TWO-WIDE LOAD UNITS
- 2. A LOAD OF THIRTY-SIX + 36) EMPTY CONTAINERS CAN BE SHIPPED IN A 40°-0° LONG TRAILER BY LOADING FOUR (4) LOAD UNITS OF NINE (9) CONTAINERS EACH INTO THE TRAILER AND BLOCKING AND BRACING THEM BY A METHOD SIMILAR TO THE METHOD SHOWN. OMIT PIECES MARKED ③ THROUGH ⑤ BETWEEN THE FRONT AND SECOND LOAD UNIT, AND SUBSTITUTE A HEADER MARKED ①. USE TWO ADDITIONAL PIECES MARKED ①, SUBSTITUTING ONE FOR PIECE MARKED ⑩. DELETE SPACER ASSEMBLIES MARKED ③ AND SUBSTITUTE ANTI-CHAFING ASSEMBLIES MARKED ② AS REQUIRED.

- HEADER, 4" X 4" X TRAILER WIDTH (CUT TO FIT) (1 REQD.) AND 2" X 6" X TRAILER WIDTH (CUT TO FIT) (1 REQD.). LAMINATE TOGETHER W/1-10d NAIL EVERY 12", IN A CONFIGURATION AS SHOWN TO PROVIDE A 2" STRUT LEDGER ON ONE SIDE.
- (4) HEADER/SPACER (2 REQD). SEE DETAIL ON PAGE 5.
- © STRUT, 4" X 4" X 30" (MIN 22") (4 REQD). ALIGN AN OUTER PIECE WITH A CONTAINER SKID AND POSITION AN INNER PIECE SO INSIDE EDGE OF STRUT IS CENTERED ON A CONTAINER SKID AS SHOWN IN THE "PARTIAL PLAN" VIEW ON PAGE 5. TOENAIL TO ADJACENT PIECES MARKED ③ AND ④ W/2-16d NAILS AT EACH END.
- 6 SIDE CLEAT, 2" X 4" X CUT TO FIT (2 REQD). SEE "PARTIAL PLAN" VIEW ON PAGE 5 FOR PROPER LOCATION. NAIL TO HEADER/SPACER MARKED (4) W/4-12d
- 7 CENTER CLEAT, 2" X 4" X 16" (1 REQD). SEE "PARTIAL PLAN" VIEW ON PAGE 5 FOR PROPER LOCATION. NAIL TO HEADER MARKED 3 W/4-12d NAILS.
- B DIAGONAL BRACE, 4" X 4" X CUT TO FIT (2 REQD). DOUBLE BEVEL EACH END AS SHOWN. SEE "PARTIAL PLAN" VIEW ON PAGE 5. TOENAIL TO HEADER MARKED 3 AND HEADER/SPACER MARKED 4 W/2-16d NAILS AT EACH END.
- (9) SPACER ASSEMBLY (2 REQD). SEE DETAIL ON PAGE 6. INSTALL AT LOCATIONS SHOWN.
- (1) INTERMEDIATE HEADER/SPACER (1 REQD). SEE DETAIL ON PAGE 5. POSITION BETWEEN THE MIDDLE AND THE REAR LOAD UNITS.
- (1) REAR HEADER, 4" X 4" AND 2" X 6" CUT TO FIT BETWEEN REAR CORNER POSTS OF TRAILER OR CUT TO TRAILER WIDTH IN LENGTH FOR VANS WITHOUT REAR CORNER POSTS (1 OF EACH PIECE REQD). LAWINATE TOGETHER W/1-104 NAIL EVERY 12", IN A CONFIGURATION AS SHOWN TO PROVIDE A 2" STRUT LEDGER ON ONE SIDE.
- (2) REAR STRUT, 4" X 4" X CUT TO FIT (4 REQD). ALIGN WITH A CONTAINER SKID AND TOENAIL TO THE ADJACENT PIECES MARKED (4) AND (1) W/2-16d NAILS AT EACH END.
- $\ensuremath{\textcircled{13}}$ steel unitizing strapping, 1–1/4" x .035" x 15'-0" (28 reqd.). See "unitization and handling procedures" on page 3.
- (14) SEAL FOR 1-1/4" STRAPPING (56 REQD). DOUBLE CRIMP EACH SEAL.
- (5) ANTI-CHAFING, NEUTRAL BARRIER MATERIAL. PLACE UNDER ALL STRAPPING MARKED (3) AT ALL POINTS OF CONTAINER/STRAP CONTACT.

21-UNIT LOAD IN A 35'-0" LONG TRAILER

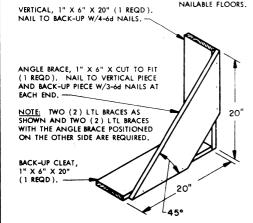






TYPICAL LTL

(ONE-UNIT LOAD)
THE DEPICTED PROCEDURES ARE ONLY
APPLICABLE TO TRAILERS THAT HAVE NAILABLE FLOORS.



LTL BRACE

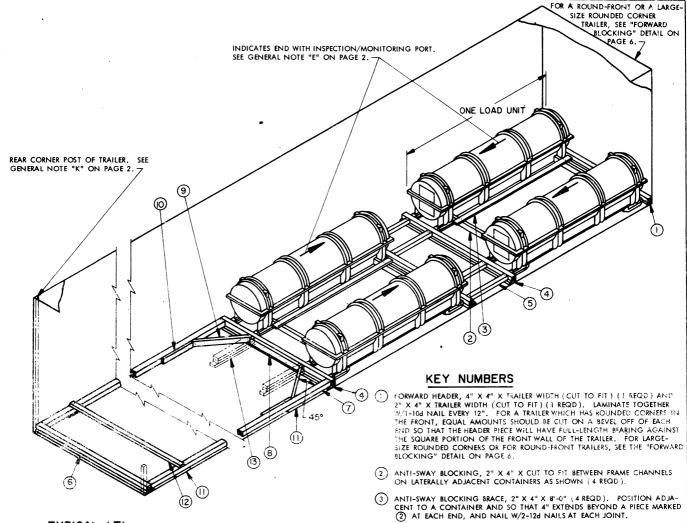
TWO BRACES APPLIED FOR LATERAL BRACING AT ONE SIDE OF A LOAD AS SHOWN ABOVE WILL ALSO SUPPORT A TWO-CONTAINER WIDE LTL LOAD.

- HEADER, 2" X 4" X 27" (TRIPLED) (2 REQD). NAIL THE FIRST PIECE TO TRAILER FLOOR W/5-12d NAILS. NAIL THE SECOND PIECE TO THE FIRST AND THE THIRD PIECE TO THE SECOND IN A LIKE MANNER.
- 2 LTL BRACE (4 REQD). SEE DETAIL BELOW. POSITION AS SHOWN AND NAIL TO THE TRAILER FLOOR W/10-6d NAILS. SEE SPECIAL NOTE 1 BELOW.
- (3) BACK-UP CLEAT, 2" X 4" X 30" (TRIPLED) (1 REQD). NAIL FIRST PIECE TO TRAILER FLOOR W/7-12d NAILS. NAIL THE SECOND PIECE TO THE FIRST AND THE THIRD PIECE TO THE SECOND IN A LIKE MANNER. SEE SPECIAL NOTE 2 BELOW.

SPECIAL NOTES:

- IF DESIRED, THE LADING ITEM MAY BE LOADED AGAINST ONE OF THE SIDE WALLS OF THE TRAILER AND THUS ELIMINATE THE NEED. FOR TWO (2) OF THE SPECIFIED LTL BRACES MARKED AS PIECE (2)
- 2. ONE BACK-UP CLEAT, SHOWN AS PIECE MARKED ③, IS ADEQUATE FOR RETAINING A ONE-CONTAINER LOAD ONLY. A PIECE MARKED ③ MAY ALSO BE INSTALLED AT THE FORWARD END OF THE LADING IF DESIRED.

TYPICAL LTL (I-UNIT LOAD)



TYPICAL LTL

A FOUR-UNIT LOAD IS SHOWN.

SPECIAL NOTES:

- 1. ALTHOUGH A ONE-LAYER LOAD IS SHOWN, STACKED CONTAINERS CAN ALSO BE BLOCKED FOR SHIPMENT BY THE SPECIFIED PROCEDURES, PRO-VIDING THEY ARE UNITIZED IN A TWO OR THREE HIGH CONFIGURATION AS SHOWN ON PAGE 3, AND PROVIDING ANTI-SWAY BRACING IS USED TO BLOCK THE STACKS, AS SPECIFIED FOR THE LOAD DEPICTED ON PAGE 4.
- 2. WHEN SHIPPING A 5-UNIT ONE-LAYER LOAD IN A SHORT TRAILER, PLACE THREE UNITS WITHIN THE FORWARD LOAD UNIT AND USE TWO (2) ANTI-CHAFING ASSEMBLIES SHOWN AS PIECES MARKED ② ON PAGE 4 IN LIEU OF ONE (1) SET OF PIECES MARKED ② AND ③ AS SHOWN; ALSO, USE PIECES MARKED ⑥, ⑦, AND ⑥ AS SPECIFIED ON PAGE 4 AND AS SHOWN IN THE "PARTIAL PLAN" VIEW ON PAGE 5.
- 3. THE "K-BRACE" BLOCKING, SHOWN AS PIECES MARKED (6) THROUGH
 (7), IS ADEQUATE FOR RETAINING A MAXIMUM SIZE LTL LOAD.
- PIECES MARKED (3) ARE FOR USE IN A TRAILER WHICH HAS A NAILABLE FLOOR AND SHOULD BE USED IF POSSIBLE, IN LIEU OF PIECES MARKED (3) THROUGH (7) WHICH APPLY TO TRAILERS HAVING NON-NAILABLE FLOORS, TWO (2) BACK-UP CLEATS, SHOWN AS PIECES MARKED (3), ARE ADEQUATE FOR RETAINING A MAXIMUM SIZE LTL LOAD OF 7,500 POLINING.

- (4) HEADER/STRUT LEDGER ASSEMBLY, 4" X 4" X TRAILER WIDTH (CUT TO FIT) (3 REQD) AND 2" X 6" X TRAILER WIDTH (CUT TO FIT) (3 REQD). LAMINATE A 2" X 6" PIECE TO THE BOTTOM SURFACE OF A 4" X 4" PIECE W/1-10d NAILE EVERY 12", IN A CONFIGURATION AS SHOWN TO PROVIDE A 2" STRUT LEDGER ON ONE SIDE.
- (5) INTERMEDIATE STRUT, 4" X 4" X 30" (MIN 22") (4 REQD.). ALIGN WITH A CONTAINER SKID AND TOENAIL TO THE ADJACENT PIECES MARKED (4) W/2-16d NAILS AT EACH END.
- REAR HEADER, 4" X 4" X TRAILER WIDTH (CUY TO FIT) (1 REQD.) AND 2" X 6" X TRAILER WIDTH (CUT TO FIT) (1 REQD.). LAMINATE TOGETHER W/1-16d NAIL EVERY 12", IN A CONFIGURATION AS SHOWN TO PROVIDE A 2" STRUT LEDGER ON ONE SIDE. SEE KEY NUMBER (3) BELOW, AND SPECIAL NOTES 3
- 7) SIDE STRUT, 4" X 4" X CUT TO FIT (2 REQD). TOENAIL TO ADJACENT PIECES MARKED (4) AND (6) W/2-164 NAILS AT EACH END.
- (B) SPACER CLEAT, 2" X 4" X 40" (BASED ON A 7"-6" WIDE TRAILER) (! REQD).
 NAIL TO 4" X 4" MATERIAL OF THE REAR-OF-LOAD PIECE MARKED (A)
 W/7-12d NAILS.
- 9 DIAGONAL BRACE, 2" X 4" X CUT TO FIT (2 REQD). DOUBLE BEVEL EACH END WITH 45° CUTS. INSTALL AT A 45° ANGLE AS SHOWN AND TOENAIL TO THE ADJACENT PIECES MARKED (4) AND (7) W/2-164 NAILS AT EACH END.
- (0) SIDE CLEAT, 2" X 4" X 24" (2 REQD). NAIL TO A SIDE STRUT PIECE MARKED W/6-12d NAILS.
- (1) RISER BLOCK, 2" X 4" X 12" (1 REQD AT EACH JUNCTION OF PIECES MARKED
) AND (1) AND (2) AND (3). POSITION AS SHOWN AND NAIL TO A SIDE STRUT PIECE MARKED (7) W/2-10d NAILS.
- (2) STRUT BRACING, 2" X 4" X TRAILER WIDTH (CUT TO FIT) (MIN OF 1 REQD).
 POSITION EVERY 7"-0" " NAIL TO THE SIDE STRUT PIECES MARKED (7) W/3-12d NAILS AT EACH END.
- (3) BACK-UP CLEAT, 2" X 4" X 30" (TRIPLED) (2 REQD). NAIL THE FIRST PIECE TO TRAILER FLOOR W/7-12d NAILS. NAIL THE SECOND PIECE TO THE FIRST AND THE THIRD TO THE SECOND IN A LIKE MANNER. SEE SPECIAL NOTE 4.

TYPICAL LTL (4-UNIT LOAD)