APPROVED BY
BUREAU OF EXPLOSIVES
A. F. Grassmuck
DATE 8/21/73

BATS

LOADING AND BRACING (TL & LTL) IN CLOSED OR OPEN TOP VAN TRAILERS OF THE MAIN ASSEMBLAGE IN I-UNIT, 4-UNIT AND 8-UNIT PACKS

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THIS DOCUMENT INCLUDES OUTLOADING PROCEDURES
FOR CONVENTIONAL TYPE TRAILERS AND FOR
TRAILERS EQUIPPED WITH MECHANICAL BRACING
DEVICES AS APPROVED BY THE BUREAU OF EXPLOSIVES,
ASSOCIATION OF AMERICAN RAILROADS. CAUTION: THE
PROCEDURES SHOWN HEREIN, FOR BOTH TYPES OF
TRAILERS, ARE ONLY APPLICABLE FOR HIGHWAY
MOVEMENTS; NOT FOR CONTAINER/TRAILER-ONFLAT-CAR MOVEMENTS.

THE OUTLOADING PROCEDURES SPECIFIED WITHIN THIS DRAWING ARE ONLY APPLICABLE TO ITEMS WHICH ARE EMPTY. NOTICE: THE ITEM PACKAGING AND THE SPECIFIED LOADING AND BRACING PROCEDURES WILL NOT BE USED FOR SHIPPING ITEMS CONTAINING EXPLOSIVES.

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	CLASS DIVISION DRAWING FILE
	19 48 5926 GM

DO NOT SCALE

GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AMCR 740-13, AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE OUTLOADING PROCEDURES SPECIFIED HEREIN ARE APPLICABLE TO THE MAIN ASSEMBLAGE FOR THE BALISTIC AERIAL TARGET SYSTEM (BATS) WHEN PACKAGED IN A SKIDDED WOODEN CONTAINER OF I-UNIT, 4-UNIT AND 8-UNIT PACKS. SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE CONTAINER WITH CONTENTS.
- C. LADING DATA:

 - (3) FOR DETAILS OF THE 8-UNIT PACK SEE THE PICTORIAL VIEW ON PAGE 3.

 CONTAINER DIMENSIONS --- 215" LONG X 40-5/8" WIDE X 80" HIGH.

 GROSS WEIGHT ------2,840 POUNDS (APPROX).
- D. SELECTION OF A VEHICLE TO BE USED TO TRANSPORT THE DESIGNATED ITEM MUST COMPLY WITH AR 55-355, CHAPTER 213, FOR EXPLOSIVES AND OTHER DANGEROUS ARTICLES. IN FULL.
- E. THE LOADS AS SHOWN HEREIN ARE BASED ON 40'-0" LONG TRAILERS OF ANY WIDTH, HAVING WOOD, OR WOOD AND METAL, OR METAL FLOORS, AND THEY ARE LIMITED TO THE HIGHWAY MOVEMENTS ONLY. THE DEPICTED LOADS ARE BASED ON TRAILERS OF THE CONVENTIONAL TYPE OR ARE BASED ON TRAILERS WHICH ARE EQUIPPED WITH VARIOUS TYPES OF SELF-CONTAINED MECHANICAL BRACING DEVICES (CROSS MEMBERS AND WALL MEMBERS).
- F. THE LOADS AS SHOWN ON PAGES 4 THRU 6 FOR 1-UNIT PACKS ARE BASED ON HIGH-VOLUME TRAILERS HAVING 8'-0" MINIMUM HIGH DOOR OPENINGS.
- G. THE LOAD AS SHOWN ON PAGES 12 AND 13 FOR 4-UNIT PACKS REQUIRES CONTAINER STACKS TO BE UNITIZED WITH STEEL STRAPPING. IN SOME INSTANCES CONTAINERS MAY ALREADY BE UNITIZED WHEN OFFERED FOR SHIPMENT. THESE UNITIZED STACKS SHOULD BE INSPECTED AND, AS REQUIRED, LOOSE OR BROKEN UNITIZING STRAPS MUST BE REPLACED.
- H. IF A TRAILER BEING USED CONTAINS A MECHANICAL LOAD-BLOCKING SYSTEM WHICH CONFORMS TO SPECIFICATIONS SET FORTH WITHIN THE BUREAU OF EXPLOSIVES PAMPHLET &C AND THE APPENDICES THERETO, THE MECHANICAL SYSTEM MAY BE USED IN ACCORDANCE WITH PROCEDURES DELINEATED ON PAGES 5 AND 13 OF THIS DOCUMENT, IN LIEU OF REAR-OF-LOAD BLOCKING SPECIFIED FOR THE DEPICTED LOADS.
- J. VOIDS LENGTHWISE WITHIN A LOAD MUST BE HELD TO A MINIMUM. FOR CONVENTIONAL TRAILERS, REAR BLOCKING MUST CONTACT REAR DOORS OF THE TRAILER WHEN THEY ARE CLOSED. FOR TRAILERS EQUIPPED WITH MECHANICAL BRACING DEVICES, THE CROSS MEMBERS MUST BE PLACED AGAINST THE LADING AS TIGHTLY AS THE WALL MEMBER LOCKING HOLE SPACING PERMITS. CROSS MEMBERS WILL BE INSTALLED WITH EACH END ATTACHED AS NEARLY AS POSSIBLE IN "MATED" POSITIONS, AT EQUAL HEIGHTS AND AT EQUAL DISTANCES FROM THE END OF THE TRAILER.
- K. MECHANICAL CROSS MEMBERS IN EMPTY TRAILERS AND THOSE UNUSED IN LOADED TRAILERS MUST BE "SECURED" FOR SHIPMENT. COMPONENTS ASSIGNED TO EACH TRAILER MUST REMAIN THEREWITH EVEN THOUGH UNUSED DURING SOME SHIPMENTS.
- I. THE 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.
- M. THE APPROVED BLOCKING, BRACING, AND STAYING METHODS FOR THE LOADS SPECIFIED MUST BE FOLLOWED. THE NUMBER OF UNITS MAY BE ADJUSTED TO FIT THE SIZE OF THE VEHICLE TO BE LOADED OR THE QUANTITY TO BE SHIPPED. FOR A LOAD CUANTITY OTHER THAN SPECIFIED, THE APPROVED METHODS MUST BE FOLLOWED AS CLOSELY AS POSSIBLE.
- N. OTHER TYPES OF LADING ITEMS MAY BE LOADED INTO TRAILERS WHICH ARE PARTIALLY LOADED WITH THE DESIGNATED ITEMS, PROVIDING THE TOTAL LOAD IS COMPATIBLE, EXISTING DIRECTIVES ARE NOT VIOLATED, AND THE OTHER LADING ITEMS ARE BLOCKED AND BRACED TO EQUAL THE BLOCKING AND BRACING CRITERIA SPECIFIED.

(CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

LUMBER ----: SEE TM 743-200-1, DUNNAGE LUMBER; FED SPEC MM-L-751.

NAILS ----: COMMON, CEMENT COATED OR CHEMICALLY ETCHED, FED SPEC FF-N-105.

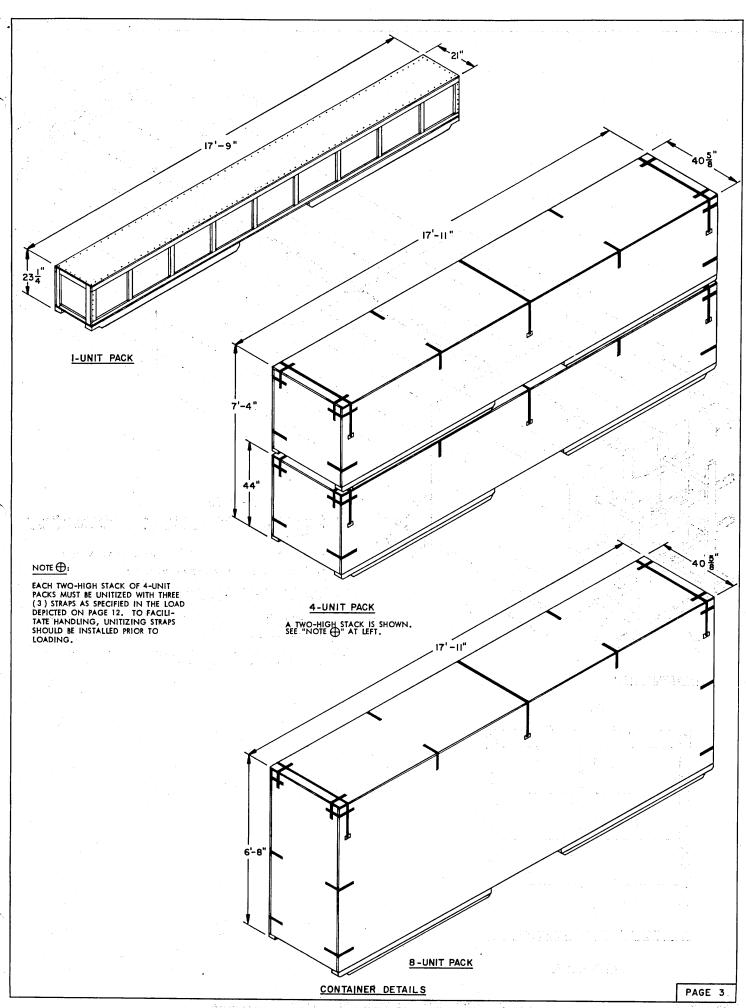
ALT: ANNULAR-RING TYPE NAIL OF THE SAME SIZE.

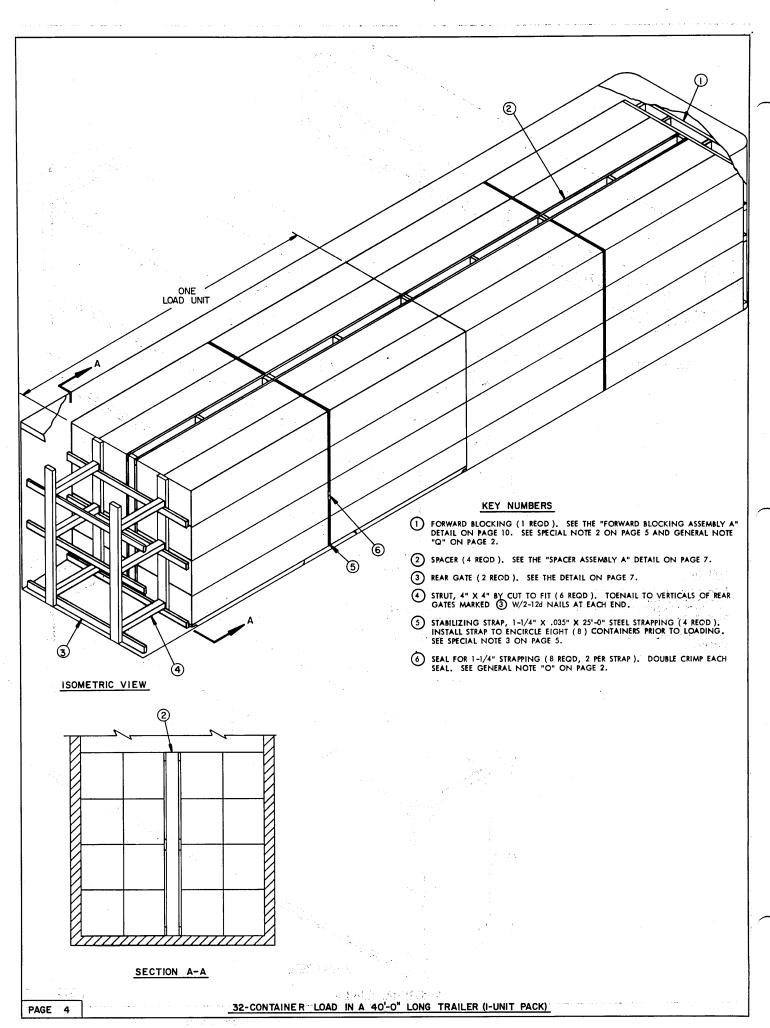
STRAPPING, STEEL: TYPE I OR IV, CLASS A OR B, FED SPEC QO-S-781.

STRAP SEAL -----: COMMERCIAL GRADE.

(GENERAL NOTES CONTINUED)

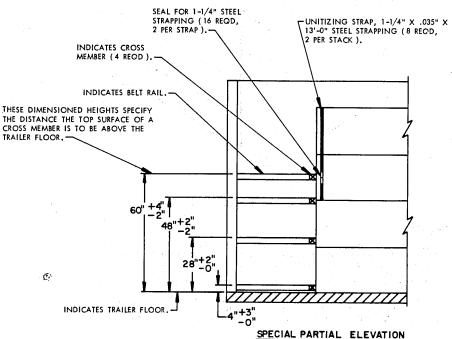
- O. WHEN ANY STRAP IS SEALED AT AN END-OVER-END LAP JOINT, A MINIMUM OF TWO (2) SEALS, BUTTED TOGETHER, WITH TWO (2) PAIR OF CRIMPS PER SEAL MUST BE USED TO SEAL THE JOINT.
- P. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 2" X 4" MATERIAL IS ACTUALLY 1-1/2" THICK BY 3-1/2" WIDE OR 1-5/8" THICK BY 3-5/8" WIDE.
- Q. A STAGGERED NAILING PATTERN WILL BE USED WHEREVER POSSIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE ASSEMBLIES. ALSO, A STAGGERED NAILING PATTERN WILL BE USED WHEN DUNNAGE IS NAILED TO THE FLOOR OF THE TRANSPORTING VEHICLE, OR WHEN LAMINATING DUNNAGE, ADDITIONALLY, THE NAILING PATTERN FOR AN UPPER PIECE OF LAMINATED DUNNAGE WILL BE ADJUSTED AS REQUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH ONTO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.
- R. PORTIONS OF THE TRAILER BODIES DEPICTED WITHIN THIS PROCEDURAL DRAWING, SUCH AS ONE OF THE SIDEWALLS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.
- S. FOR ADDITIONAL GUIDANCE, ATTENTION IS DIRECTED TO THE "SPECIAL NOTES" SECTIONS WHICH ARE IMMEDIATELY ADJACENT TO DEPICTED OUTLOADING METHODS.





SPECIAL NOTES:

- 1. A 32-CONTAINER LOAD OF THE 1-UNIT PACK IS SHOWN IN A 40'-0" LONG BY 7'-8" WIDE (INSIDE DIMENSION) HIGH VOLUME VAN TRAILER. A NARROWER OR WIDER TRAILER MAY BE USED. THE DOOR OPENING OF A TRAILER MUST BE AT LEAST 8'-0" HIGH FOR SHIPMENT OF A 4-HIGH LOAD. IF OTHER THAN A HIGH VOLUME VAN TRAILER IS USED OR IF THE DOOR OPENING HEIGHT IS LESS THAN 8'-0" THE LOAD WILL BE LIMITED TO 3 LAYERS HIGH.
- A TRAILER WITH ROUNDED CORNERS AT THE FORWARD END IS SHOWN IN THE LOAD VIEW. IF THE TRAILER BEING USED HAS A SQUARE FRONT WALL, OMIT THE FOR-WARD BLOCKING, MARKED (1) AND POSITION THE CONTAINERS DIRECTLY AGAINST THE FRONT WALL OF THE TRAILER.
- STABILIZING STRAPS, PIECES MARKED (5), ARE ONLY REQUIRED TO FACILITATE LOADING OPERATIONS WHEN MATERIAL HANDLING EQUIPMENT DOES NOT PERMIT LOADING OF CONTAINERS INDIVIDUALLY.
- 4. FOR SHIPMENT OF LESS-THAN-FULL-LOAD QUANTITY, ONE OR MORE CONTAINERS MAY BE OMITTED FROM THE TOP LAYER AND TWO (2) "FILLER ASSEMBLIES", AS DETAILED ON PAGE 11, SUBSTITUTED IN THE PLACE OF EACH OMITTED CONTAINER. HOWEVER, IN LIEU OF USING "FILLER ASSEMBLIES", THE "PROCEDURES FOR OMITTED CONTAINER" SPECIFIED ON PAGE 6 MAY BE APPLIED.
- 5. IF A 28-CONTAINER LOAD IS TO BE SHIPPED, OMIT THE FOUR (4) CONTAINERS IN THE TOP LAYER OF THE REAR LOAD UNIT AND UNITIZE THE UPPER TWO (2) CONTAINERS OF EACH STACK IN THE FORWARD LOAD UNIT AS DEPICTED ON PAGE 6. REDUCE THE HEIGHT OF THE REAR GATES MARKED (3) TO THAT REQUIRED FOR A 3-HIGH LOAD AS SHOWN IN THE "REAR GATE" DETAIL ON PAGE 7.
- 6. IF THE TRAILER BEING OUTLOADED CONTAINS MECHANICAL BRACING DEVICES, SUCH AS WALL BELT RAILS AND LOAD BLOCKING CROSS MEMBERS, WHICH CONFORM TO SPECIFICATIONS SET FORTH WITHIN THE BUREAU OF EXPLOSIVES PAMPHLET 6C AND THE APPENDICES THERETO, THEY MAY BE USED AT THE REAR OF THE LOAD AT SPECIFIED HEIGHTS. PIECES MARKED ③ AND ④ WILL BE OMITTED AND PROCEDURES USED AS SPECIFIED IN THE "SPECIAL PARTIAL ELEVATION" VIEW SHOWN BELOW. THE TRAILER EQUIPPED WITH MECHANICAL BRACHING DEVICES MUST HAVE A SYSTEM LENGTH OF NOT LESS THAN 36'-6" AS MEASURED FROM THE FRONT WALL OF THE TRAILER. SEE GENERAL NOTES "H", "J", AND "K" ON PAGE 2.

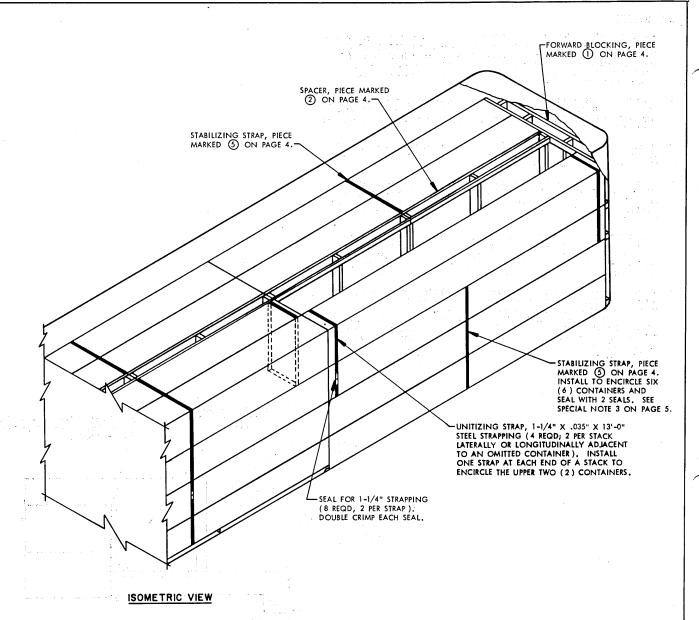


SEE SPECIAL NOTE 6 ABOVE.

LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	142	48
1" X 6"	71	36
2" X 4"	133	89
2" X 6"	124	124
4" X 4"	20	27
NAILS	NO. REQD	POUNDS
6d (2")	168	1
10d (3")	100	1-1/2
12d (3-1/4")	24	1/2

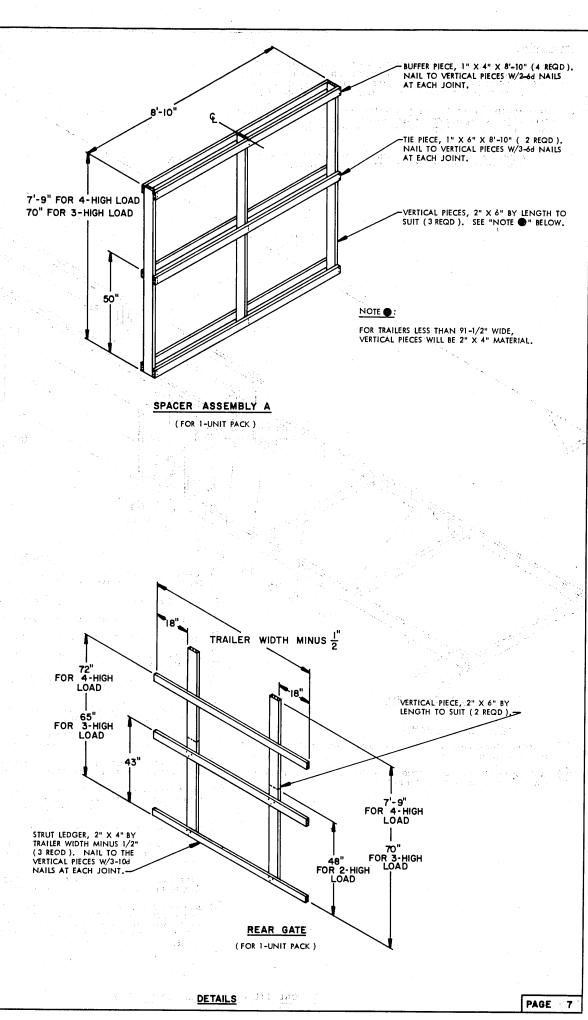
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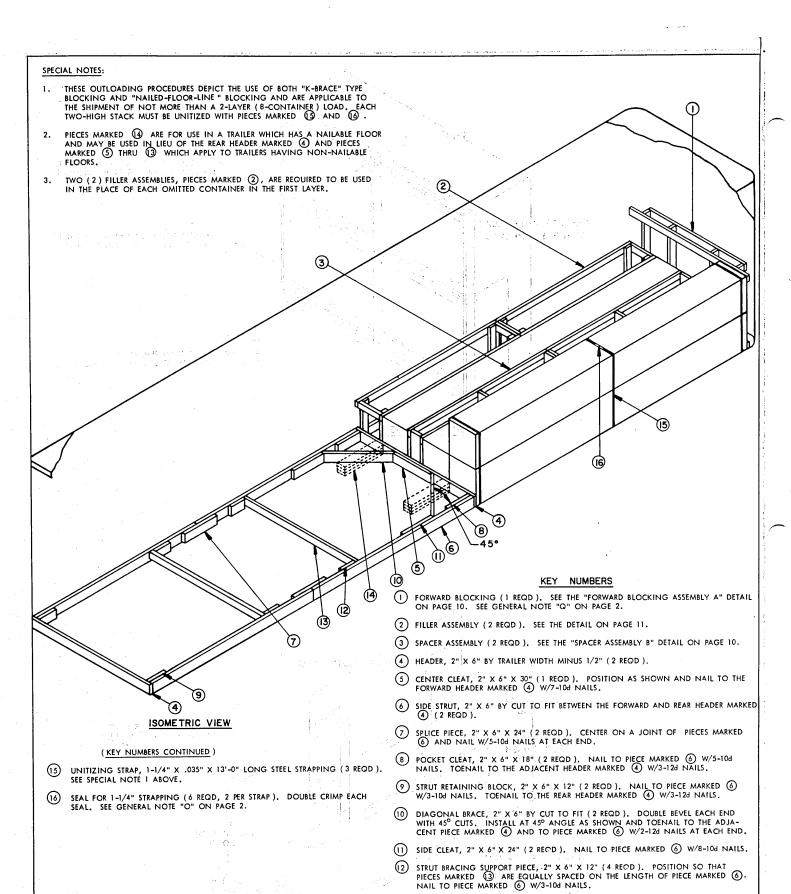
ITEM	QUANTITY	WEIGHT (APPROX)
CONTAINER	32	14.720 IRS
	TOTAL' WEIGHT	15,548 LBS



SPECIAL NOTES:

- THESE PROCEDURES SPECIFY TYPICAL REQUIREMENTS FOR OMITTING ONE OR MORE CONTAINERS WITHIN THE TOP LAYER OF THE LOAD DEPICTED ON PAGE 4. NOTE THAT THE UPPER TWO (2) CONTAINERS OF EACH STACK WHICH IS LATERALLY OR LONGITUDINALLY ADJACENT TO A STACK HAVING AN OMITTED CONTAINER MUST BE UNITIZED WITH TWO (2) STRAPS (ONE AT EACH END OF CONTAINERS) AS SHOWN.
- 2. IF DESIRED, IN LIEU OF USING THE UNITIZING PROCEDURES SPECIFIED ABOVE, TWO
 (2) "FILLER ASSEMBLIES" AS DETAILED ON PAGE 11 MAY BE USED IN THE PLACE OF
 EACH OMITTED CONTAINER AND UNITIZING STRAPPING WILL NOT BE RECUIRED.

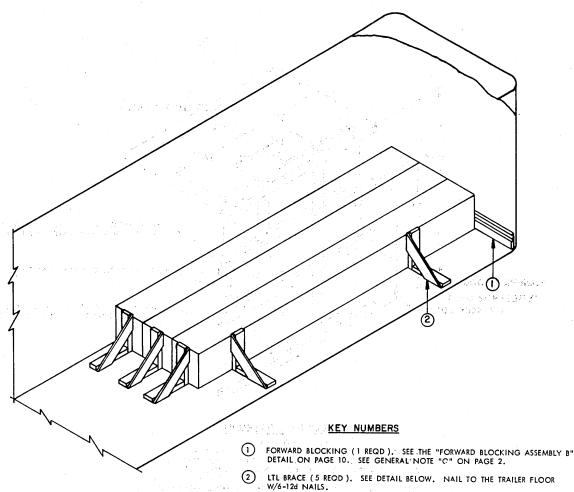




(CONTINUED AT LEFT)

BACK-UP CLEAT, 2" X 6" X 30" (TRIPLED) (2 REOD), ALIGN WITH THE JOINTS OF TWO ADJACENT CONTAINERS, NAIL THE FIRST PIECE TO THE TRAILER FLOOR W/7-12d NAILS. NAIL EACH ADDITIONAL PIECE IN A LIKE MANNER, TOENAIL THE TOP PIECE TO THE FORWARD HEADER MARKED 4) W/2-12d NAILS. SEE SPECIAL NOTE 2

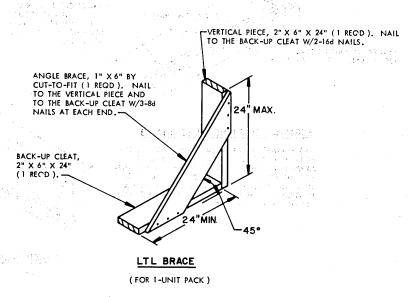
ABOVE.



ISOMETRIC VIEW

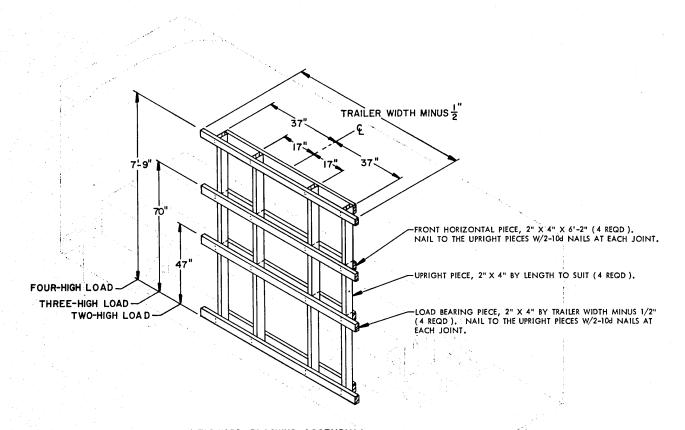
SPECIAL NOTES:

- A 3-UNIT LOAD IS SHOWN. THESE OUTLOADING PROCEDURES DEPICT THE USE OF "LTL BRACE" TYPE BLOCKING IN A VAN TRAILER WHICH IS EQUIPPED WITH A NAILABLE FLOOR.
- EACH "LTL BRACE" AS SPECIFIED WILL RETAIN 2,000 POUNDS OF LADING LONGITUDINALLY. A MINIMUM OF TWO (2) BRACES MUST BE USED AGAINST A CONTAINER SIDE.



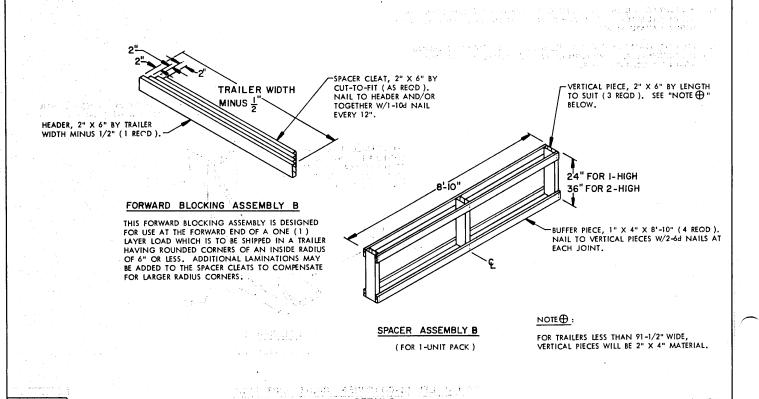
TYPICAL LTL (3-CONTAINER LOAD) (1-UNIT PACK)

PAGE --- 9



FORWARD BLOCKING ASSEMBLY A

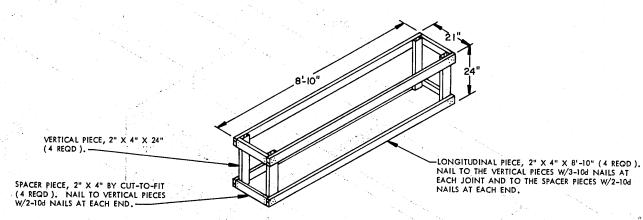
(FOR 1-UNIT PACK)
THIS ASSEMBLY IS DESIGNED FOR USE AT THE FORWARD END OF A TRAILER HAVING ROUNDED CORNERS WITH A RADIUS OF 6" OR LESS. FOR A TRAILER HAVING CORNERS WITH A RADIUS OF MORE THAN 6", LAMINATE 4" WIDE MATERIAL TO THE FRONT HORIZONTAL PIECES. ALSO, 2" X 6" MATERIAL MAY BE USED FOR UPRIGHT PIECES.



DETAILS

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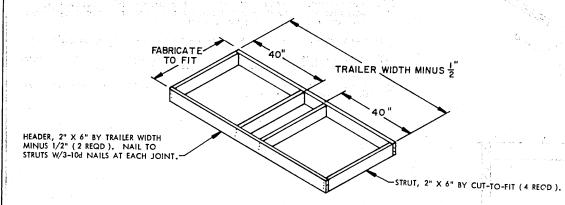
PAGE



FILLER ASSEMBLY

(FOR 1-UNIT PACK)

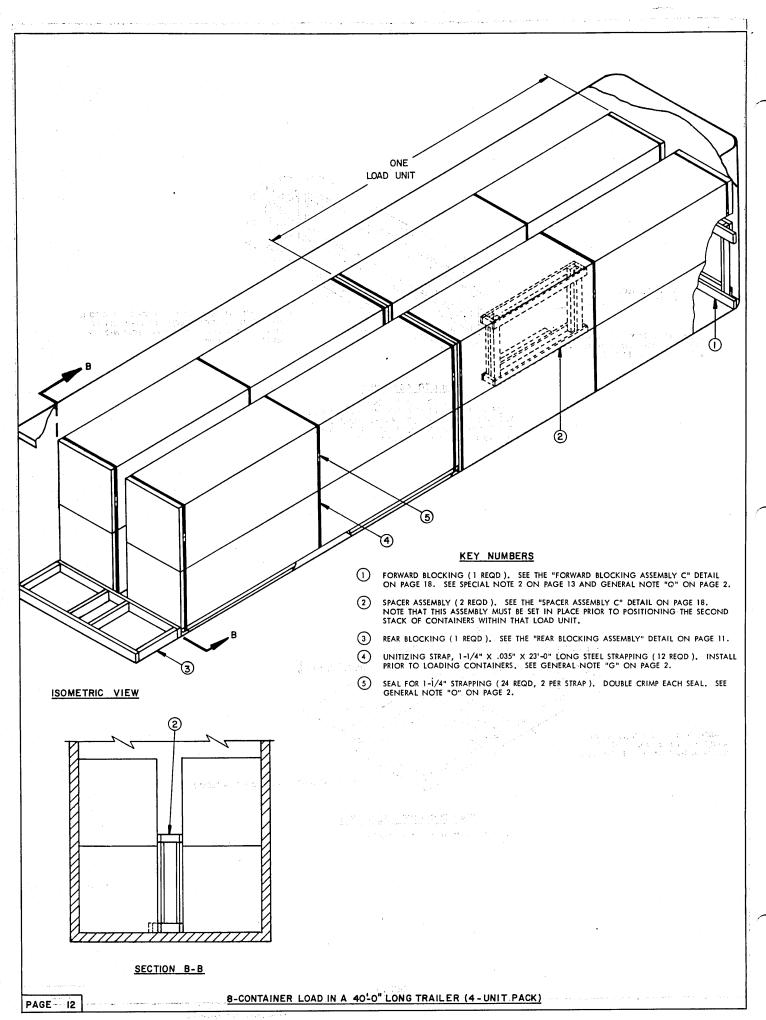
NOTE THAT TWO (2) ASSEMBLIES AS SHOWN WILL BE REQUIRED TO BE SUBSTITUTED IN THE PLACE OF EACH OMITTED CONTAINER. FILLER ASSEMBLIES MAY ONLY BE USED IN THE TOP LAYER OF A LOAD.



REAR BLOCKING ASSEMBLY

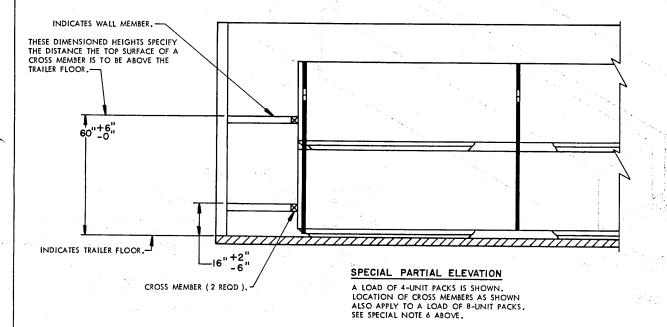
(FOR 4-UNIT AND 8-UNIT PACKS)

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SPECIAL NOTES:

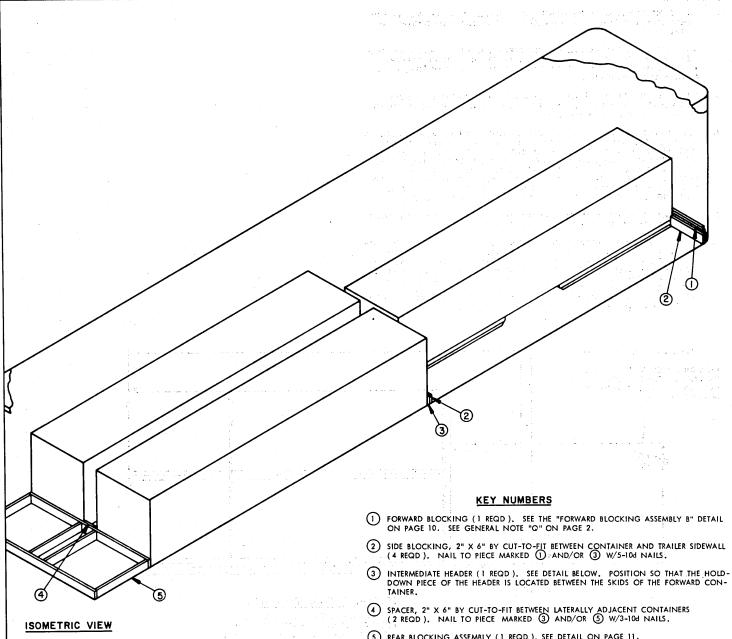
- AN 8-CONTAINER LOAD OF THE 4-UNIT PACK IS SHOWN IN A 7'-6" WIDE (INSIDE DIMENSION) BY 40-0" LONG VAN TRAILER. WIDER OR NARROWER TRAILERS MAY BE USED.
- 2. A TRAILER WITH ROUNDED CORNERS AT THE FORWARD END IS SHOWN IN THE LOAD VIEW. IF THE TRAILER BEING USED HAS A SQUARE FRONT, OMIT THE FORWARD BLOCKING MARKED () AND POSITION THE CONTAINERS DIRECTLY AGAINST THE FRONT WALL OF THE TRAILER.
- THE PROCEDURES SHOWN ARE ALSO APPLICABLE TO THE SHIPMENT OF A 4-CON-TAINER LOAD OF 8-UNIT PACKS, EXCEPT THAT UNITIZING STRAPS, PIECES MARKED (4) AND (5), WILL NOT BE REQUIRED.
- 4. FOR SHIPMENT OF A LESS-THAN-FULL-LOAD QUANTITY, ONE OR MORE CONTAINERS MAY BE OMITTED FROM THE TOP LAYER. WHEN SHIPPING SIX (6) CONTAINERS, OMIT THE TOP LAYER OF THE REAR LOAD UNIT. FOR EACH LOAD UNIT THAT HAS AN OMITTED TOP LAYER CONTAINER, REDUCE THE HEIGHT OF THE "SPACER ASSEMBLY C", PIECE MARKED (2), TO THE 44" HEIGHT AS SHOWN IN THE DETAIL ON PAGE 16. ALSO FOR A 1-LAYER 4-CONTAINER LOAD, REDUCE THE HEIGHT OF THE "FORWARD BLOCKING ASSEMBLY C", PIECE MARKED (1), TO 44". NOTE THAT UNITIZING STRAPS MARKED (4) ARE ONLY REQUIRED ON 2-LAYER STACKS.
- FOR SHIPMENT OF LESS THAN FOUR (4) CONTAINERS OF 4-UNIT OR 8-UNIT PACKS, SEE THE TYPICAL LTL LOADS DEPICTED ON PAGES 14 THRU 17.
- 6. IF THE TRAILER BEING OUTLOADED CONTAINS MECHANICAL BRACING DEVICES, SUCH AS WALL BELT RAILS AND LOAD BLOCKING CROSS MEMBERS, WHICH CONFORM TO SPECIFICATIONS SET FORTH WITHIN THE BUREAU OF EXPLOSIVES PAMPHLET 6C AND THE APPENDICES THERETO, THEY MAY BE USED AT THE REAR OF THE LOAD IN LIEU OF REAR BLOCKING PIECE MARKED 3. SEE THE "SPECIAL PARTIAL ELEVATION" BELOW FOR CROSS MEMBER LOCATION AND NUMBER REQUIRED. THE TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES MUST HAVE A SYSTEM LENGTH OF AT LEAST 36'-9" AS MEASURED FROM THE FRONT WALL OF THE TRAILER.



LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	48	16
2" X 4"	68	46
2" X 6"	55	55
NAILS	NO. REQD	POUNDS
6d (2")	94	3/4
10d (3")	114	1-3/4

LOAD AS SHOWN

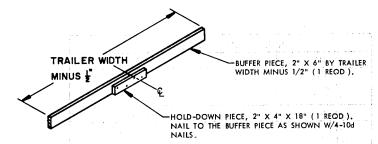
ITEM	QUANTITY	WEIGHT (APPROX
CONTAINER		
(4-UNIT PACK)	8	 13,000 LBS
DUNNAGE		 336 LBS
	TOTAL WEIGHT	 12 224 105



SPECIAL NOTE:

A 3-CONTAINER LOAD OF THE 4-UNIT PACK IS SHOWN IN A 7'-6" WIDE (INSIDE DIMENSION) BY 40'-0" LONG VAN TRAILER. A WIDER OR NARROWER TRAILER MAY BE USED.

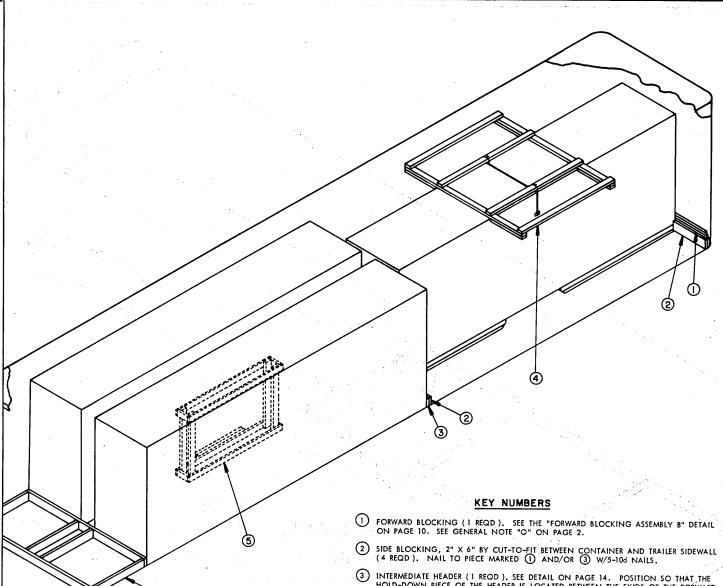
(5) REAR BLOCKING ASSEMBLY (1 REQD). SEE DETAIL ON PAGE 11.



INTERMEDIATE HEADER

FOR CLARITY PURPOSES THIS ASSEMBLY HAS BEEN TURNED 90° FROM THE POSITION SHOWN IN THE LOAD VIEW. LOCATE THE HOLD-DOWN PIECE BETWEEN THE SKIDS OF THE FORWARD CONTAINER.

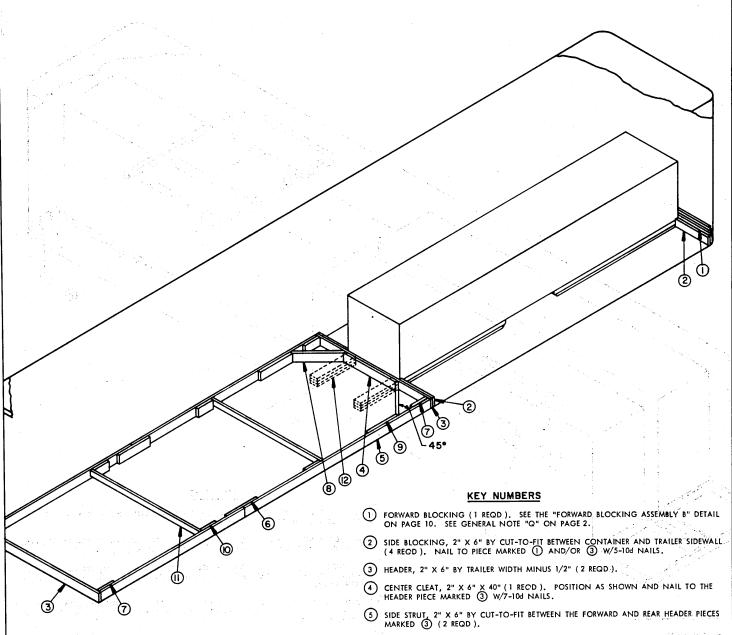
TYPICAL LTL (3-CONTAINER LOAD) (4-UNIT PACK)



ISOMETRIC VIEW

SPECIAL NOTES:

- A 3-CONTAINER LOAD OF THE 8-UNIT PACK IS SHOWN IN A 7'-6" WIDE (INSIDE DIMENSION) BY 40'-0" LONG VAN TRAILER. A WIDER OR NARROWER TRAILER MAY BE USED.
- THESE PROCEDURES CAN ALSO BE USED FOR A 6-CONTAINER SHIPMENT OF 4-UNIT PACKS, E.I. THREE 2-CONTAINER HIGH STACKS. HOWEVER, PRIOR TO LOADING, EACH 2-CONTAINER HIGH STACK MUST BE UNITIZED WITH THREE (3) UNITIZING STRAPS AS SPECIFIED IN KEY NUMBER (4) OF THE LOAD DEPICTED ON PAGE 12. SEE GENERAL NOTE "G" ON PAGE 2.
- (3) INTERMEDIATE HEADER (1 REQD.). SEE DETAIL ON PAGE 14. POSITION SO THAT THE HOLD-DOWN PIECE OF THE HEADER IS LOCATED BETWEEN THE SKIDS OF THE FORWARD CONTAINER.
- 4 ANTI-SWAY BRACE (1 REQD), SEE DETAIL ON PAGE 18. CENTER ON CONTAINER AND WIRE-TIE THE BRACE TO THE CONTAINER STRAPS WITH NO. 14 GAGE WIRE AT TWO (2) PLACES AS SHOWN.
- 5 SPACER ASSEMBLY (1 REQD). SEE THE "SPACER ASSEMBLY C" DETAIL ON PAGE 18. NOTE THAT THIS ASSEMBLY MUST BE SET IN PLACE PRIOR TO POSITIONING THE SECOND CONTAINER WITHIN THE LOAD UNIT.
- 6 REAR BLOCKING ASSEMBLY (1 REOD). SEE DETAIL ON PAGE 11.



ISOMETRIC VIEW

SPECIAL NOTES:

- A 1-CONTAINER LOAD OF THE 4-UNIT PACK IS SHOWN. THESE OUTLOADING PROCEDURES DEPICT THE USE OF BOTH "K-BRACE" TYPE BLOCKING AND "NAILED-FLOOR-LINE" BLOCKING IN A 7'-6" WIDE VAN TRAILER. WIDER OR NARROWER TRAILERS CAN BE USED.
- 2. A 1-CONTAINER LOAD OF THE 8-UNIT PACK MAY ALSO BE SHIPPED BY USING THE SAME BRACING METHODS, EXCEPT THAT AN "ANTI-SWAY BRACE" MUST BE PROVIDED AS DETAILED ON PAGE 18 AND AS SPECIFIED IN KEY NUMBER 4 OF PROCEDURES SHOWN ON PAGE 15.
- 3. PIECES MARKED ② ARE FOR USE IN A TRAILER WHICH HAS A NAILABLE FLOOR AND MAY BE USED IN LIEU OF PIECES MARKED ④ THRU ① WHICH APPLY TO TRAILERS HAVING NON-NAILABLE FLOORS.

- 6 SPLICE PIECE, 2" X 6" X 24" (2 REOD). CENTER ON A JOINT OF PIECES MARKED (S) AND NAIL W/4-104 NAILS AT EACH END.
- 7 STRUT RETAINING BLOCK, 2" X 6" X 12" (4 REQD). NAIL TO PIECE MARKED (S) W/3-10d NAILS. TOENAIL TO THE HEADER PIECE MARKED (3) W/2-12d NAILS.
- B DIAGONAL BRACE, 2" X 6" BY CUT-TO-FIT (2 REOD). DOUBLE BEVEL EACH END WITH 45° CUTS. INSTALL AT 45° ANGLE AS SHOWN AND TOENAIL TO THE ADJACENT PIECE MARKED 3 AND TO PIECE MARKED 5 W/2-12d NAILS AT EACH END.
- 9 SIDE CLEAT, 2" X 6" X 24" (2 REOD). NAIL TO PIECE MARKED 5 W/8-10d NAILS.
- (10) STRUT BRACING SUPPORT PIECE, 2" X 6" X 12" (4 REOD). POSITION SO THAT PIECES MARKED (1) ARE EQUALLY SPACED ON THE LENGTH OF PIECE MARKED (3). NAIL TO PIECE MARKED (3) W/3-104 NAILS.
- STRUT BRACING, 2" X 4" BY TRAILER WIDTH MINUS 3" (CUT-TO-FIT) (2 REQD).
 NAIL TO PIECE MARKED (1) W/2-12d NAILS AT EACH END.
- (2) BACK-UP CLEAT, 2" X 6" X 30" (TRIPLED) (2 REQD). ALIGN WITH THE CONTAINER SKID. NAIL THE FIRST PIECE TO THE TRAILER FLOOR W/7-12d NAILS. NAIL EACH ADDITIONAL PIECE IN A LIKE MANNER. TOENAIL THE TOP PIECE TO HEADER MARKED (3) W/2-12d NAILS. SEE SPECIAL NOTE 3 ON THIS PAGE.

TYPICAL LTL (I-CONTAINER LOAD) (4-UNIT PACK)

