

GENERAL NOTES

(GENERAL NOTES CONTINUED)

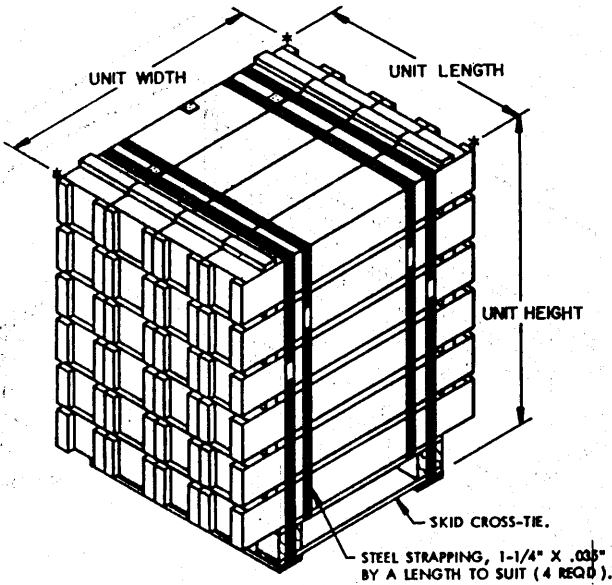
- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AMCR 740-13, AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THIS PROCEDURAL DRAWING IS APPLICABLE TO A TRAILER OR CONTAINER WHICH IS EQUIPPED WITH A MECHANICAL LOAD BRACING SYSTEM AS SPECIFIED WITHIN THE BUREAU OF EXPLOSIVES PAMPHLET NO. 6C AND APPENDICES THERETO. SUBSEQUENT REFERENCE TO A TRAILER THROUGHOUT THIS DOCUMENT MEANS A TRAILER OR CONTAINER. FOR TOFC AND/OR COFC SHIPMENTS, ONLY RAILCARS WHICH ARE SPECIFIED BY THE BUREAU OF EXPLOSIVE PAMPHLET NO. 6C, OR THE AFORE MENTIONED APPENDICES, WILL BE USED.
- C. THE LOADS AS SHOWN ARE BASED ON TRAILERS WHICH ARE 40'-0" LONG BY 7'-6" WIDE (INSIDE DIMENSION) WITH A WOOD OR A WOOD AND METAL, OR A METAL FLOOR. THE DELINEATED OUTLOADING PROCEDURES ARE ALSO APPLICABLE TO TRAILERS WHICH ARE EIGHTY-NINE INCHES (89") THROUGH NINETY-THREE INCHES (93") IN WIDTH.
- D. THE HEIGHT LOCATIONS SPECIFIED WITHIN THIS DRAWING FOR THE INSTALLATION OF CROSS MEMBERS ARE IDENTICAL WITH THOSE RECOMMENDED WITHIN THE BUREAU OF EXPLOSIVES PAMPHLET NO. 6C AND APPENDICES THERETO. CAUTION: TRAILERS EQUIPPED WITH FACILITIES WHICH DO NOT MEET THE LOCATION REQUIREMENTS SPECIFIED HEREIN MUST NOT BE USED. SEE GENERAL NOTE "R".
- VOIDS WITHIN THE LENGTH OF A LOAD MUST BE HELD TO A MINIMUM. CROSS MEMBERS MUST BE PLACED AGAINST THE LADING AS TIGHTLY AS THE HOLE SPACING IN THE CROSS MEMBER ATTACHMENT FACILITY PERMITS. ALSO, EACH CROSS MEMBER WILL BE INSTALLED WITH THE ENDS ATTACHED AS NEARLY AS POSSIBLE IN "MATED" POSITIONS (AT EQUAL HEIGHTS AND AT EQUAL DISTANCES FROM THE END OF THE TRAILER).
 - CROSS MEMBERS IN EMPTY TRAILERS AND THOSE NOT USED IN LOADED TRAILERS MUST BE SECURED FOR SHIPMENT. COMPONENTS ASSIGNED TO EACH TRAILER MUST REMAIN THERewith EVEN THOUGH UNUSED DURING SOME SHIPMENTS.
 - A CROSS MEMBER WILL NOT BE RELIED UPON TO RETAIN MORE LADING ON EITHER SIDE THAN AS SHOWN WITHIN THE LOAD VIEWS OR THE LOADING METHODS.
- E. FOR DETAILS OF SKIDDED UNITS, REFER TO DRAWING NO. 19-48-4020-1-2-5-11PA1001 REV 2. SEE GENERAL NOTE "Q".
- F. FOR DETAILS OF PALLETIZED UNITS, REFER TO DRAWING NO. 19-48-4020-1-2-5-11PA1000 REV 1.
- G. 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.
- H. 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. NOTICE: A SHIPMENT WILL BE POSITIONED IN A TRAILER CONSISTENT WITH THE WEIGHT LAWS OF THE STATES THROUGH WHICH THE TRAILER WILL BE TRANSPORTED BY HIGHWAY (MOTOR CARRIER).
- J. THE NUMBER OF LADING UNITS MAY BE ADJUSTED TO FIT THE SIZE OF THE TRAILER TO BE LOADED OR THE QUANTITY TO BE SHIPPED; HOWEVER, THE APPROVED METHODS SHOWN HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE FOR BLOCKING, BRACING, AND STAYING OF THE DESIGNATED ITEM.
- K. OTHER TYPES OF LADING ITEMS MAY BE LOADED INTO TRAILERS WHICH ARE PARTIALLY LOADED WITH THE DEPICTED ITEM, 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 HEREIN.
- L. 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 4" X 4" MATERIAL IS ACTUALLY 3-5/8" THICK BY 3-5/8" WIDE.
- M. DO NOT NAIL BLOCKING SHOWN HEREIN TO THE TRAILER WALLS OR FLOOR. ALL NAILING WILL BE WITHIN THE DUNNAGE.
- N. PORTIONS OF THE TRAILER BODY DEPICTED WITHIN THIS PROCEDURAL DRAWING, SUCH AS ONE OF THE SIDE WALLS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.
- O. IF THE EXCESS SPACE ACROSS THE WIDTH OF THE TRAILER, MEASURED BETWEEN THE LADING ON THE PALLETIZED OR SKIDDED UNITS, IS SIX INCHES (6") OR MORE, IT WILL BE NECESSARY TO INSTALL AN ANTI-SWAY BRACE BETWEEN LATERALLY ADJACENT PALLETIZED OR SKIDDED UNITS. ANTI-SWAY BRACE DETAILS ARE SHOWN WITHIN THE DRAWING. LATERAL BRACING IS NOT REQUIRED IF THE EXCESS SPACE MEASURES LESS THAN SIX INCHES (6").
- P. 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.
- Q. THE OUTLOADING PROCEDURES IN THIS DRAWING ARE APPLICABLE FOR SHIPMENT OF PALLETIZED UNITS AND SKIDDED UNITS. THE SKIDDED UNITS MAY HAVE ANY ONE OF THREE DIFFERENT TYPES OF BASES. FOR IDENTIFICATION WITHIN THIS DOCUMENT ONLY, THESE SKID BASES WILL BE CALLED TYPES I, II, AND III.
- THE TYPE III IS THE MODIFIED SKID BASE WHICH IS PRESENTLY BEING USED FOR THE MAKING UP OF SKIDDED UNITS. REFER TO DRAWING NO. D-AMXSV-4163, REV C, FOR CONSTRUCTION GUIDANCE. THE ANTI-SWAY BRACE ASSEMBLIES FOR USE WITH THE TYPE III BASE, WHEN REQUIRED, ARE DETAILED ON PAGE 15.
 - THE TYPE II IS THE SKID BASE DEPICTED IN DRAWING NO. 19-48-4020-1-2-5-11PA1001, REV 2. THE ANTI-SWAY BRACE ASSEMBLIES FOR USE WITH THE TYPE II BASE, WHEN REQUIRED, ARE DETAILED ON PAGE 16.
 - THE TYPE I IS THE 4" X 4" LUMBER BASE AS WAS DEPICTED IN REV. 1 TO DRAWING NO. 19-48-4020-1-2-5-11PA1001. THE ANTI-SWAY BRACE ASSEMBLY FOR USE WITH THE TYPE I BASE, WHEN REQUIRED, IS DETAILED ON PAGE 17.
- R. THE CROSS MEMBERS SHOWN IN THE LOAD VIEWS, IN THE SECTION VIEWS (REPRESENTED BY "LETTERED" DIMENSIONS) AND IN THE LOADING METHOD VIEWS ARE LOCATED AT 16", 28", 38", 48" AND/OR 60" HEIGHTS ABOVE THE TRAILER FLOOR. ALTHOUGH THESE LOCATIONS ARE IDENTICAL TO THOSE RECOMMENDED WITHIN THE BUREAU OF EXPLOSIVES PAMPHLET 6C AND APPENDICES THERETO, CROSS MEMBER INSTALLATIONS ARE NOT LIMITED TO THESE LOCATIONS. HOWEVER, CROSS MEMBERS MUST BE LOCATED WITHIN THE TOLERANCES SPECIFIED IN THE DESCRIPTION PART OF THE "CROSS MEMBER LOCATION HEIGHT" CHART WHICH IS APPLICABLE FOR THE LOADING PROCEDURE BEING USED.

(CONTINUED AT THE RIGHT)

MATERIAL SPECIFICATIONS

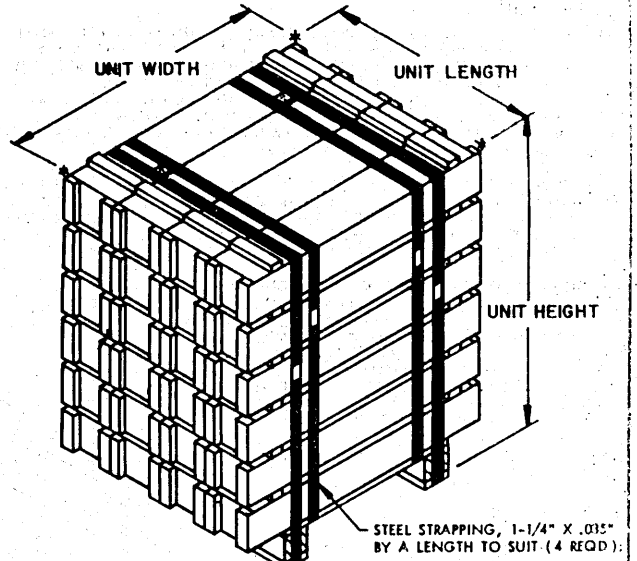
- LUMBER -----: SEE TM 743-200-1, DUNNAGE LUMBER; FED SPEC MM-L-751.
- PLYWOOD -----: GROUP B OR C, GRADE * C-D (EXTERIOR); FED SPEC NN-P-530. FSN 5530-051-1198.
- NAILS -----: COMMON, CEMENT COATED OR CHEMICALLY ETCHED, FED SPEC FF-N-105.
ALT: ANNULAR-RING TYPE NAIL OF THE SAME SIZE.
- STRAPPING, STEEL: TYPE I OR IV, CLASS A OR B, FED SPEC QQ-S-781.
- WIRE -----: ANNEALED, BLACK, FED SPEC QQ-W-461.

* IF SPECIFIED GRADE IS NOT AVAILABLE, A BETTER EXTERIOR GRADE MAY BE SUBSTITUTED.



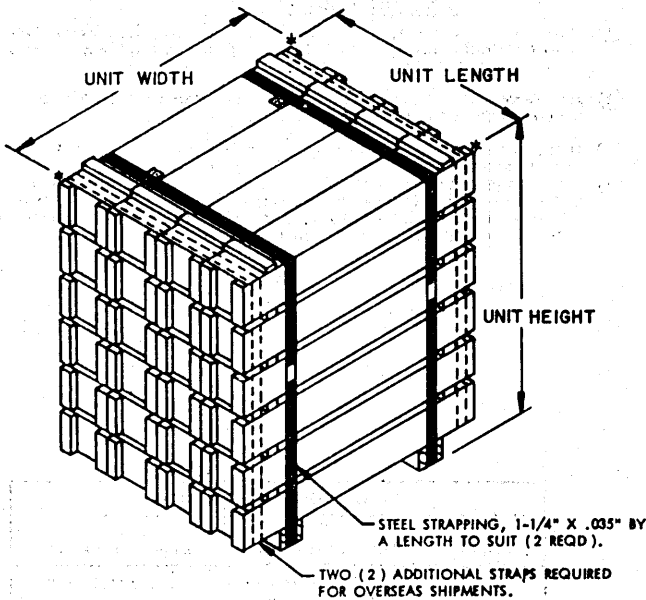
TYPICAL SKIDDED UNIT - TYPE III

REFER TO DRAWING D-AMXSV-4163, REVISION C, FOR DETAILS OF THE 4-WAY SKID BASE AND CONSTRUCTION NOTES. REFER TO DRAWING 19-48-4020-1-2-5-11PA1001, REVISION 2, FOR GUIDANCE IN UNITIZING THE BOXES TO THE BASE.



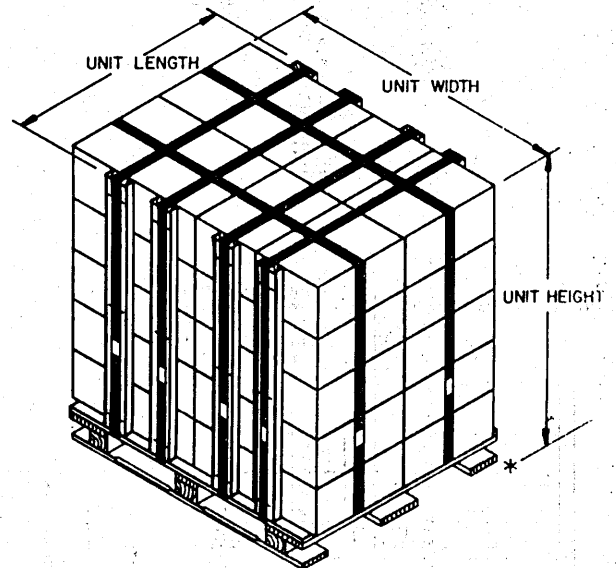
TYPICAL SKIDDED UNIT - TYPE II

THIS 4-WAY SKID BASE DOES NOT HAVE THE 1" X 4" SKID CROSS-TIE PIECES WHICH ARE A PART OF THE TYPE III SKID BASE. THESE UNITS MAY BE SHIPPED; HOWEVER, NEW UNITS BEING MADE UP SHOULD BE ASSEMBLED ON THE TYPE III 4-WAY SKID BASE AS TYPICALLY SHOWN AT LEFT.



TYPICAL SKIDDED UNIT - TYPE I

THIS IS THE ORIGINAL SKIDDED UNIT, CONSISTING OF 4" X 4" SKIDS STRAPPED TO THE BASE OF THE UNIT. IF SUCH UNITS ARE ON HAND, THEY MAY BE SHIPPED AS IS, PROVIDING THE STEEL STRAPPING IS NOT LOOSE. HOWEVER, NEW UNITS BEING MADE UP SHOULD BE ASSEMBLED ON THE TYPE III 4-WAY SKID BASE AS TYPICALLY SHOWN ABOVE.

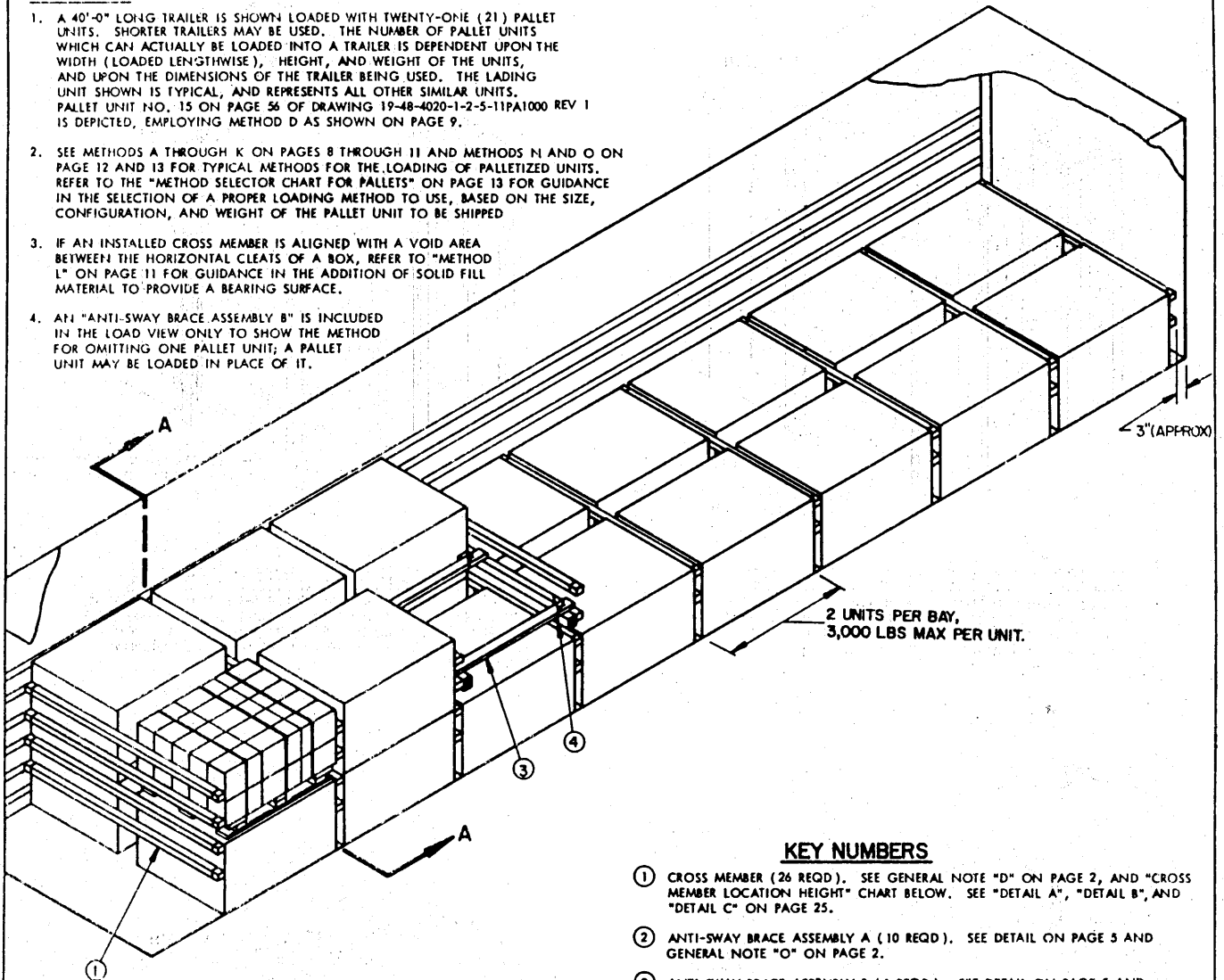


TYPICAL PALLETIZED UNIT

REF: DRAWING 19-48-4020-1-2-5-11PA1000 AND DRAWING 19-48-4015-12P1000.

SPECIAL NOTES:

1. A 40'-0" LONG TRAILER IS SHOWN LOADED WITH TWENTY-ONE (21) PALLET UNITS. SHORTER TRAILERS MAY BE USED. THE NUMBER OF PALLET UNITS WHICH CAN ACTUALLY BE LOADED INTO A TRAILER IS DEPENDENT UPON THE WIDTH (LOADED LENGTHWISE), HEIGHT, AND WEIGHT OF THE UNITS, AND UPON THE DIMENSIONS OF THE TRAILER BEING USED. THE LADING UNIT SHOWN IS TYPICAL, AND REPRESENTS ALL OTHER SIMILAR UNITS. PALLET UNIT NO. 15 ON PAGE 56 OF DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED, EMPLOYING METHOD D AS SHOWN ON PAGE 9.
2. SEE METHODS A THROUGH K ON PAGES 8 THROUGH 11 AND METHODS N AND O ON PAGE 12 AND 13 FOR TYPICAL METHODS FOR THE LOADING OF PALLETIZED UNITS. REFER TO THE "METHOD SELECTOR CHART FOR PALLETS" ON PAGE 13 FOR GUIDANCE IN THE SELECTION OF A PROPER LOADING METHOD TO USE, BASED ON THE SIZE, CONFIGURATION, AND WEIGHT OF THE PALLET UNIT TO BE SHIPPED.
3. IF AN INSTALLED CROSS MEMBER IS ALIGNED WITH A VOID AREA BETWEEN THE HORIZONTAL CLEATS OF A BOX, REFER TO "METHOD L" ON PAGE 11 FOR GUIDANCE IN THE ADDITION OF SOLID FILL MATERIAL TO PROVIDE A BEARING SURFACE.
4. AN "ANTI-SWAY BRACE ASSEMBLY B" IS INCLUDED IN THE LOAD VIEW ONLY TO SHOW THE METHOD FOR OMITTING ONE PALLET UNIT; A PALLET UNIT MAY BE LOADED IN PLACE OF IT.



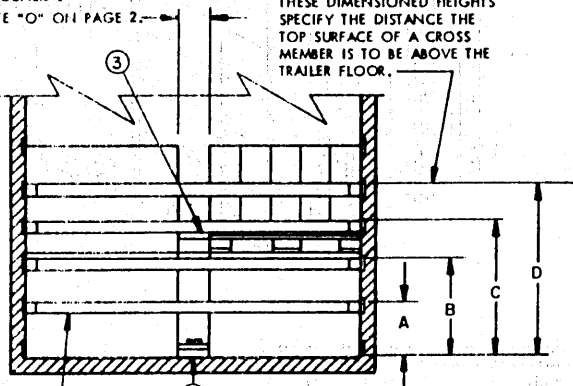
ISOMETRIC VIEW

KEY NUMBERS

- 1 CROSS MEMBER (26 REQD). SEE GENERAL NOTE "D" ON PAGE 2, AND "CROSS MEMBER LOCATION HEIGHT" CHART BELOW. SEE "DETAIL A", "DETAIL B", AND "DETAIL C" ON PAGE 25.
- 2 ANTI-SWAY BRACE ASSEMBLY A (10 REQD). SEE DETAIL ON PAGE 5 AND GENERAL NOTE "O" ON PAGE 2.
- 3 ANTI-SWAY BRACE ASSEMBLY B (1 REQD). SEE DETAIL ON PAGE 5 AND SPECIAL NOTE 4 ABOVE.
- 4 NO. 8 GAGE BLACK ANNEALED WIRE 36" LONG (4 REQD). INSTALL TO EN-CIRCLE PIECE MARKED 1 AND PIECE MARKED 3 AND TWIST TIE WIRE ENDS TOGETHER TIGHTLY. TWO (2) WRAPS OF NO. 14 GAGE WIRE MAY BE USED AT EACH LOCATION IF NO. 8 GAGE IS NOT AVAILABLE.

SEE GENERAL NOTE "O" ON PAGE 2.

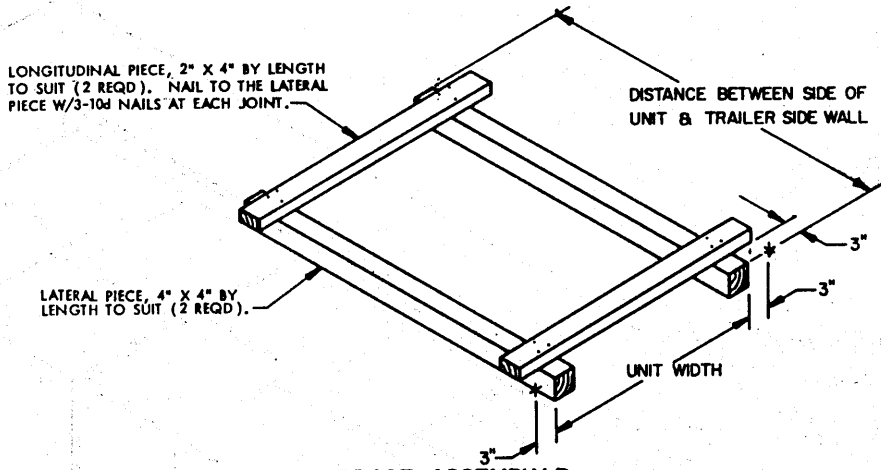
THESE DIMENSIONED HEIGHTS SPECIFY THE DISTANCE THE TOP SURFACE OF A CROSS MEMBER IS TO BE ABOVE THE TRAILER FLOOR.



SECTION A-A

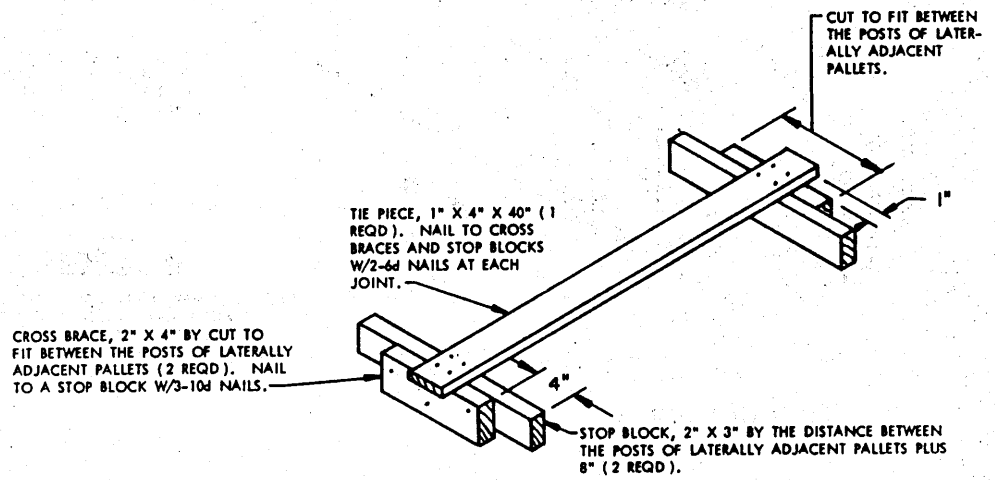
CROSS MEMBER LOCATION HEIGHT	
LOCATION IDENTITY*	DESCRIPTION FOR LOCATING CROSS MEMBERS IN VAN TRAILER
A	8-1/2" MINIMUM FROM THE FLOOR AND NOT MORE THAN 1/2 OF THE PALLET HEIGHT.
B	FROM THE TOP OF THE FIRST LAYER PALLET TO NOT LOWER THAN 1/2 OF THE PALLET HEIGHT.
C	FIRST LAYER PALLET HEIGHT PLUS 8-1/2" MINIMUM AND NOT MORE THAN 1/2 OF THE PALLET HEIGHT.
D	FROM THE TOP OF THE SECOND LAYER PALLET TO NOT LOWER THAN 1/2 OF THE PALLET HEIGHT.

* SEE GENERAL NOTE "R" ON PAGE 2.



ANTI-SWAY BRACE ASSEMBLY B

THIS ASSEMBLY IS DESIGNED FOR USE IN THE PLACE OF AN OMITTED PALLET UNIT TO PROVIDE LATERAL BRACING FOR THE REMAINING PALLET IN A ONE-PALLET-LONG BAY AS TYPICALLY SHOWN IN THE LOAD VIEW ON PAGE 4. THIS ASSEMBLY IS ALSO APPLICABLE FOR USE IN THE PLACE OF AN OMITTED SKIDDED UNIT AS TYPICALLY SHOWN IN THE LOAD VIEW ON PAGE 16.



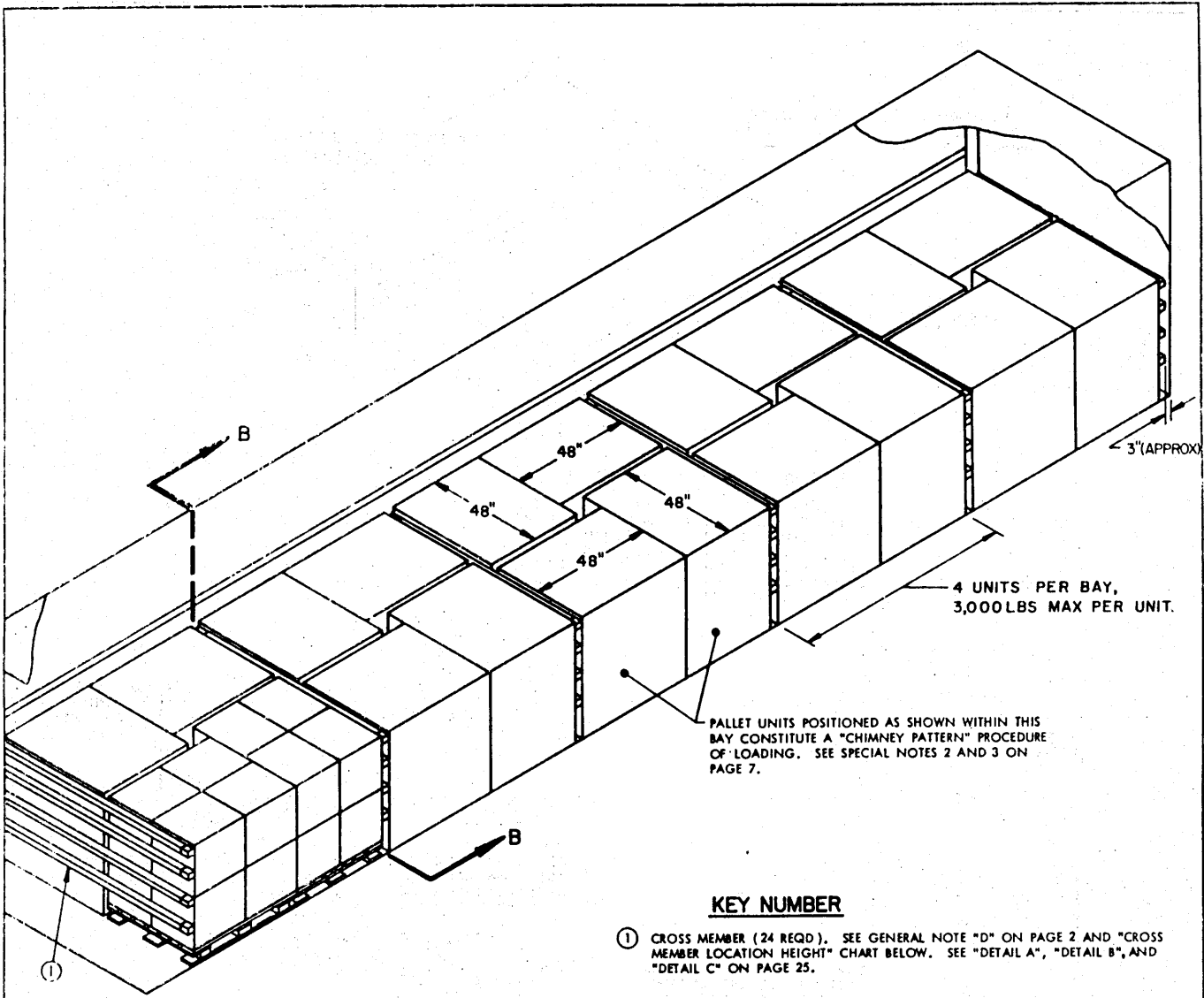
ANTI-SWAY BRACE ASSEMBLY A

TO INSTALL AN ASSEMBLY, LAMINATE A CROSS BRACE AND A STOP BLOCK. NAIL ONE END OF THE TIE PIECE, ALLOWING 1" TO PROTRUDE. POSITION THE CROSS BRACE AND STOP BLOCK OF THESE ASSEMBLED PIECES BEYOND THE CENTER POSTS OF THE LATERALLY ADJACENT PALLETS AND MOVE THE ASSEMBLY FORWARD UNTIL IT CONTACTS THE OUTWARD PALLET POSTS. NAIL THE OTHER END OF THE TIE PIECE TO AN ASSEMBLED CROSS BRACE AND STOP BLOCK WHICH IS POSITIONED JUST BEYOND THE NEAREST PALLET POST. NOTE THAT UP TO 1" TOLERANCE IS PERMISSIBLE FOR THE CUT-TO-FIT CROSS BRACE PIECES.

BILL OF MATERIAL (TYPICAL)		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	34	12
2" X 3"	30	15
2" X 4"	27	18
4" X 4"	9	12
NAILS	NO. REQD	POUNDS
6d (2")	60	1/2
10d (3")	72	1-1/4
NO. 8 GAGE BLACK ANNEALED WIRE ----- 12' REQD -----		1 LB

LOAD AS SHOWN (TYPICAL)

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT -----	21 -----	39,270 LBS
DUNNAGE -----	-----	146 LBS
TOTAL WEIGHT ---		39,416 LBS



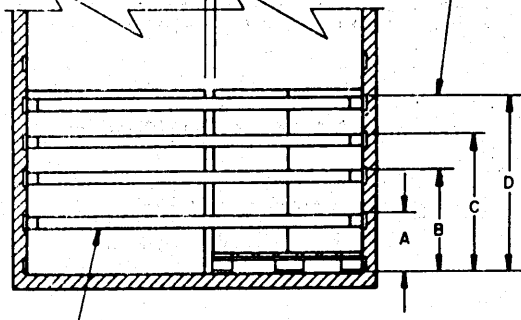
ISOMETRIC VIEW

KEY NUMBER

- 1 CROSS MEMBER (24 REQD). SEE GENERAL NOTE "D" ON PAGE 2 AND "CROSS MEMBER LOCATION HEIGHT" CHART BELOW. SEE "DETAIL A", "DETAIL B", AND "DETAIL C" ON PAGE 25.

6" MAX. SEE GENERAL NOTE "O" ON PAGE 2.

THESE DIMENSIONED HEIGHTS SPECIFY THE DISTANCE THE TOP SURFACE OF A CROSS MEMBER IS TO BE ABOVE THE TRAILER FLOOR.



CROSS MEMBER LOCATION HEIGHT	
LOCATION IDENTITY*	DESCRIPTION FOR LOCATING CROSS MEMBERS IN VAN TRAILER
A	8-1/2" MINIMUM FROM THE TRAILER FLOOR.
B	ANY LOCATION BETWEEN A AND D.
C	ANY LOCATION BETWEEN A AND D.
D	FROM THE TOP OF THE PALLET TO NOT LOWER THAN 1/2 OF THE PALLET HEIGHT.

* SEE GENERAL NOTE "R" ON PAGE 2.

SPECIAL NOTES:

1. A 40'-0" LONG TRAILER IS SHOWN LOADED WITH TWENTY (20) PALLET UNITS. SHORTER TRAILERS MAY BE USED. THE NUMBER OF PALLET UNITS WHICH CAN ACTUALLY BE LOADED INTO A TRAILER IS DEPENDENT UPON THE WIDTH, LENGTH AND WEIGHT OF THE UNITS, AND UPON THE DIMENSIONS OF THE TRAILER BEING USED. THE LADING UNIT SHOWN IS TYPICAL, AND REPRESENTS ALL OTHER SIMILAR UNITS.
2. A "CHIMNEY PATTERN" LOADING PROCEDURE IS DEPICTED. THIS PROCEDURE IS APPLICABLE TO ANY PALLET UNIT, PROVIDING THE LADING ON THE 48" DIMENSION OF THE PALLET MEASURES AT LEAST 46" (THIS ASSURES THAT THE SPACE BETWEEN THE LADING ON A PAIR OF LATERALLY ADJACENT PALLETS WILL BE NOT GREATER THAN THE 6" ALLOWABLE), AND ALSO PROVIDING THE COMBINED OVERALL LENGTH AND WIDTH OF THE UNIT IS LESS THAN THE INSIDE WIDTH OF THE TRAILER TO BE LOADED. UNITS WHICH DO NOT MEET SUCH PROVISIONS MUST BE LOADED IN ACCORDANCE WITH THE PROCEDURES SHOWN ON PAGES 4 AND 5.
3. CAUTION: THE LOADING OF PALLET UNITS IN A "CHIMNEY PATTERN" IS LIMITED TO ONE (1) LAYER.
4. A TYPICAL PALLETIZED UNIT WHICH IS 40" LONG BY 48" WIDE BY 49" HIGH IS SHOWN IN THE "ISOMETRIC VIEW". THESE PROCEDURES ARE ALSO APPLICABLE TO UNITS OF OTHER HEIGHTS. THE NUMBER OF CROSS MEMBERS REQUIRED FOR RETAINING PALLET UNITS OF VARIOUS HEIGHTS AND THE MAXIMUM WEIGHT PER PALLET UNIT ARE AS FOLLOWS:

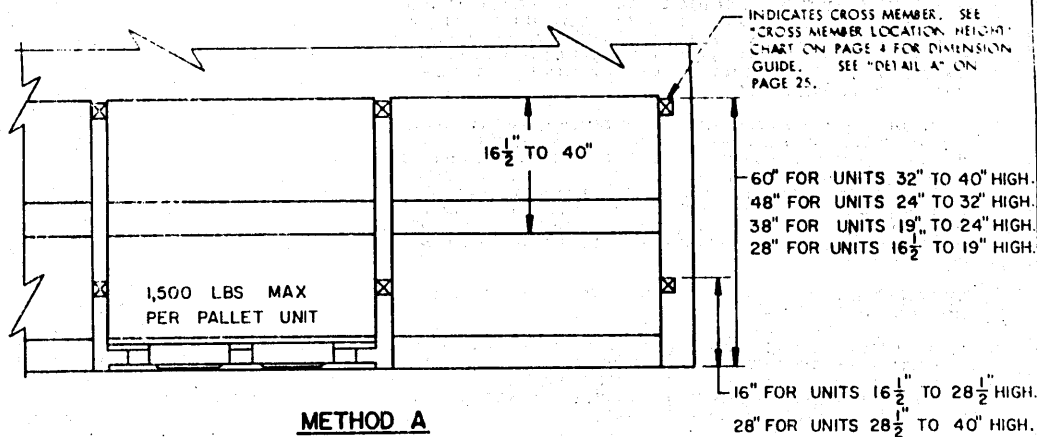
<u>UNIT HEIGHT</u>	<u>NO. OF CROSS MEMBERS</u>	<u>WEIGHT PER UNIT</u>
48" OR HIGHER	4 SINGLES	UP TO 3,000 LBS
38" TO 48"	3 SINGLES	UP TO 2,250 LBS
38" TO 48"	3 DOUBLES	UP TO 3,750 LBS
28" TO 38"	2 SINGLES	UP TO 1,500 LBS
28" TO 38"	2 DOUBLES	UP TO 2,500 LBS

5. A COMBINATION OF LOADING PROCEDURES MAY BE USED TO ATTAIN THE QUANTITY TO BE SHIPPED AND/OR FOR THE BEST UTILIZATION OF TRAILER SPACE; I.E. TWO (2) PALLET UNITS MAY BE LOADED, BLOCKED, AND BRACED AS SHOWN ON PAGE 4 IN CONJUNCTION WITH MULTIPLES OF FOUR (4) LOADED IN A "CHIMNEY PATTERN".

LOAD AS SHOWN (TYPICAL)

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
PALLET UNIT -----	20 -----	39,080 LBS

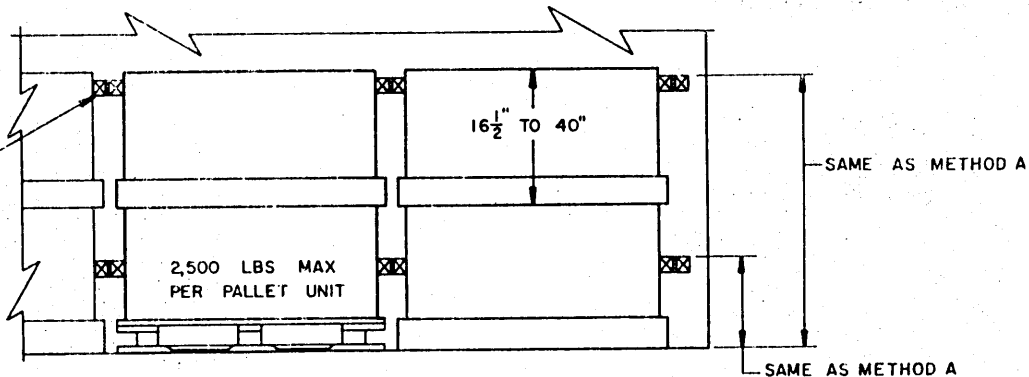
TYPICAL 20-UNIT LOAD (PALLETIZED)



METHOD A

PALLET UNIT NO. 38 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED. (4 PALLET UNITS PER BAY - TWO WIDE AND TWO HIGH). METHOD A MAY BE USED IF:

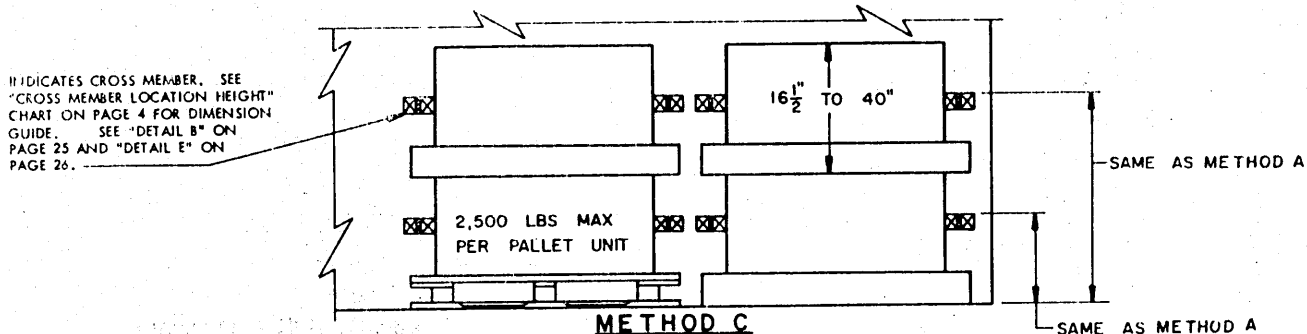
- A. THE PALLET UNIT IS 16-1/2" TO 40" HIGH.
- B. THE PALLET UNIT WEIGHT IS 1,500 POUNDS OR LESS.
- C. THE PALLET PROJECTS BEYOND THE LOAD WIDTH 1-3/8" OR LESS, OR
- D. THE LOAD OVERHANGS THE PALLET.



METHOD B

PALLET UNIT NO. 1 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (4 PALLET UNITS PER BAY - TWO WIDE AND TWO HIGH). METHOD B MAY BE USED IF:

- A. THE PALLET UNIT IS 16-1/2" TO 40" HIGH.
- B. THE PALLET UNIT WEIGHT IS 2,500 POUNDS OR LESS.
- C. THE PALLET PROJECTS BEYOND THE LOAD WIDTH MORE THAN 1-3/8" BUT LESS THAN 2-7/8".
- D. FOUR CROSS MEMBERS ARE REQUIRED TO HOLD FOUR PALLET UNITS AND ONLY TWO LOCATIONS ARE AVAILABLE.

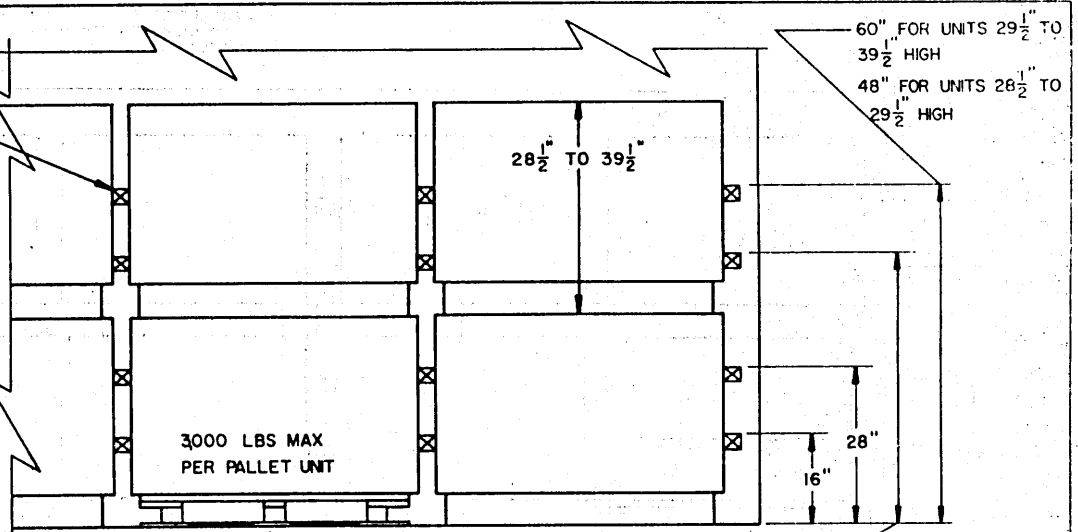


METHOD C

PALLET UNIT NO. 2 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (4 PALLET UNITS PER BAY - TWO WIDE AND TWO HIGH). METHOD C MAY BE USED IF:

- A. THE PALLET UNIT IS 16-1/2" TO 40" HIGH.
- B. THE PALLET WEIGHT IS 2,500 POUNDS OR LESS.
- C. THE PALLET PROJECTS BEYOND THE LOAD WIDTH 4-3/8" OR MORE.
- D. FOUR CROSS MEMBERS ARE REQUIRED TO HOLD FOUR PALLET UNITS AND ONLY TWO LOCATIONS ARE AVAILABLE.

INDICATES CROSS MEMBER. SEE "CROSS MEMBER LOCATION HEIGHT" CHART ON PAGE 4. FOR DIMENSION GUIDANCE. SEE "DETAIL A" ON PAGE 25.



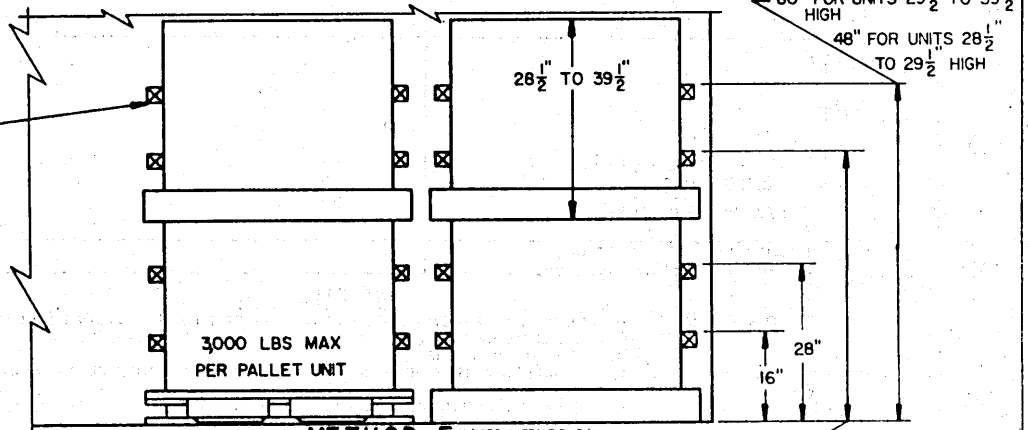
METHOD D

PALLET UNIT NO. 20 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (4 PALLET UNITS PER BAY - TWO WIDE AND TWO HIGH). METHOD D MAY BE USED IF:

- THE PALLET UNIT IS 28-1/2" TO 39-1/2" HIGH (THIS ALLOWS FOR TWO CROSS MEMBER LOCATIONS AGAINST EACH PALLET UNIT).
- THE PALLET UNIT WEIGHT IS 3,000 POUNDS OR LESS.
- THE PALLET PROJECTS BEYOND THE LOAD WIDTH 1-3/8" OR LESS, OR
- THE LOAD OVERHANGS THE PALLET.

60" FOR UNITS 29 1/2" TO 39 1/2" HIGH
48" FOR UNITS 28 1/2" TO 29 1/2" HIGH

INDICATES CROSS MEMBER. SEE "CROSS MEMBER LOCATION HEIGHT" CHART ON PAGE 4. FOR DIMENSION GUIDANCE. SEE "DETAIL A" ON PAGE 25.



METHOD E (SEE METHOD F)

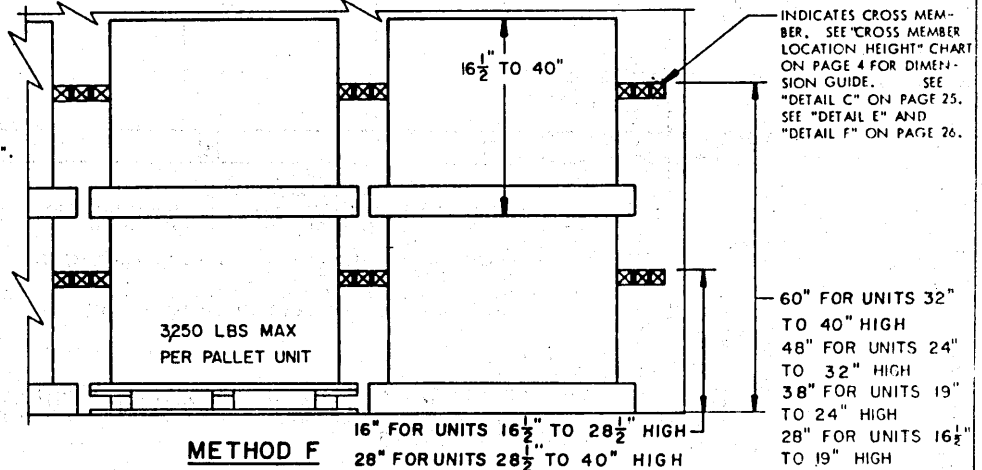
PALLET UNIT NO. 8 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (4 PALLET UNITS PER BAY - TWO WIDE AND TWO HIGH). METHOD E MAY BE USED IF:

- THE PALLET UNIT IS 28-1/2" TO 39-1/2" HIGH (THIS ALLOWS FOR TWO CROSS MEMBER LOCATIONS AGAINST EACH PALLET UNIT).
- THE PALLET UNIT WEIGHT IS 3,000 POUNDS OR LESS.
- THE PALLET PROJECTS BEYOND THE LOAD WIDTH 2-7/8" OR MORE.

60" FOR UNITS 29 1/2" TO 39 1/2" HIGH
48" FOR UNITS 28 1/2" TO 29 1/2" HIGH

PALLET UNIT NO. 8 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (4 PALLET UNITS PER BAY - TWO WIDE AND TWO HIGH). METHOD F MAY BE USED IF:

- THE PALLET UNIT IS 16-1/2" TO 40" HIGH.
- THE PALLET UNIT WEIGHT IS 3,250 POUNDS OR LESS.
- THE PALLET PROJECTS BEYOND THE LOAD WIDTH AT LEAST 2-7/8" BUT LESS THAN 4-3/8".

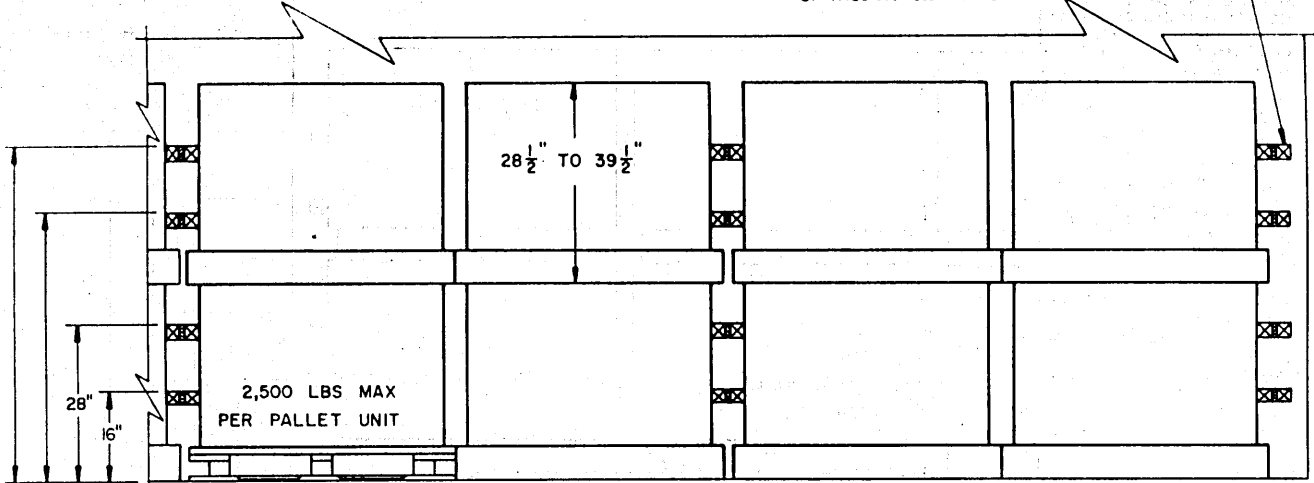


METHOD F

INDICATES CROSS MEMBER. SEE "CROSS MEMBER LOCATION HEIGHT" CHART ON PAGE 4 FOR DIMENSION GUIDE. SEE "DETAIL C" ON PAGE 25. SEE "DETAIL E" AND "DETAIL F" ON PAGE 26.

60" FOR UNITS 32" TO 40" HIGH
48" FOR UNITS 24" TO 32" HIGH
38" FOR UNITS 19" TO 24" HIGH
28" FOR UNITS 16 1/2" TO 19" HIGH

INDICATES CROSS MEMBER. SEE "CROSS MEMBER LOCATION HEIGHT" CHART ON PAGE 4 FOR DIMENSIONS GUIDANCE. SEE "DETAIL B" ON PAGE 25. SEE "DETAIL E" ON PAGE 26.



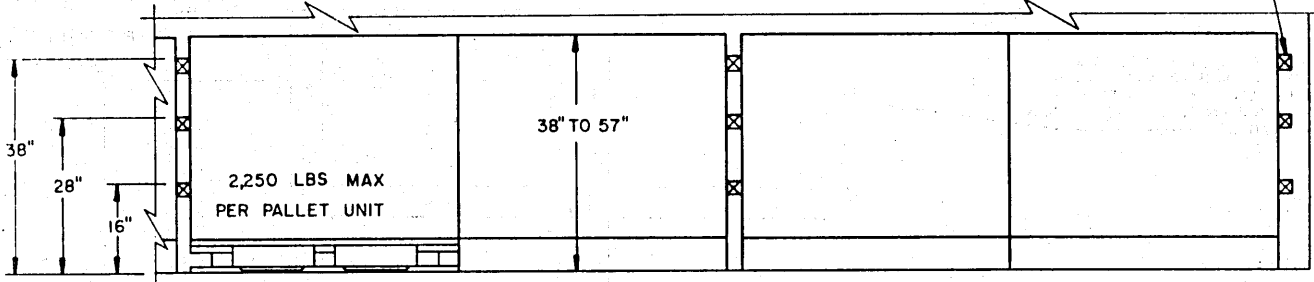
METHOD G

48" FOR UNITS 29 1/2" TO 39 1/2" HIGH
 38" FOR UNITS 28 1/2" TO 29 1/2" HIGH
 60" FOR UNITS 29 1/2" TO 39 1/2" HIGH
 48" FOR UNITS 28 1/2" TO 29 1/2" HIGH.

PALLET UNIT NO. 7 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (8 PALLET UNITS PER BAY - TWO WIDE, TWO LONG AND TWO HIGH). METHOD G MAY BE USED IF:

- THE PALLET UNIT IS 28-1/2" TO 39-1/2" (THIS ALLOWS FOR TWO CROSS MEMBER LOCATIONS AGAINST EACH PALLET UNIT).
- THE PALLET UNIT WEIGHT IS 2,500 POUNDS OR LESS.
- THE PALLET PROJECTS BEYOND THE LOAD WIDTH MORE THAN 1-3/8" BUT LESS THAN 2-7/8".

INDICATES CROSS MEMBER. SEE "CROSS MEMBER LOCATION HEIGHT" CHART ON PAGE 4 FOR DIMENSION GUIDE. SEE "DETAIL A" ON PAGE 25.

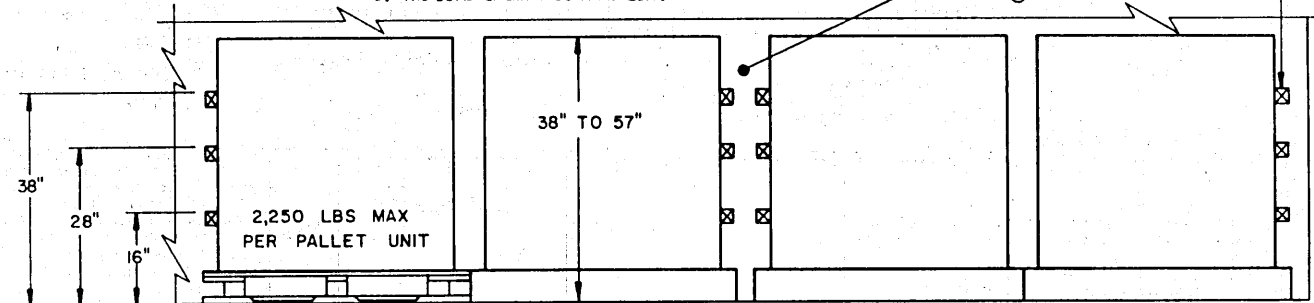


METHOD H

PALLET UNIT NO. 39 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (4 PALLET UNITS PER BAY - TWO WIDE, TWO LONG AND ONE HIGH). METHOD H MAY BE USED IF:

- THE PALLET UNIT IS 38" HIGH OR MORE (THIS ALLOWS FOR THREE CROSS MEMBER LOCATIONS AGAINST THE PALLET UNIT).
- THE PALLET UNIT WEIGHT IS 2,250 POUNDS OR LESS.
- THE PALLET PROJECTS BEYOND THE LOAD WIDTH 1-3/8" OR LESS, OR
- THE LOAD OVERHANGS THE PALLET.

INDICATES CROSS MEMBER. SEE "CROSS MEMBER LOCATION HEIGHT" CHART ON PAGE 4 FOR DIMENSION GUIDE. SEE "DETAIL A" ON PAGE 25.



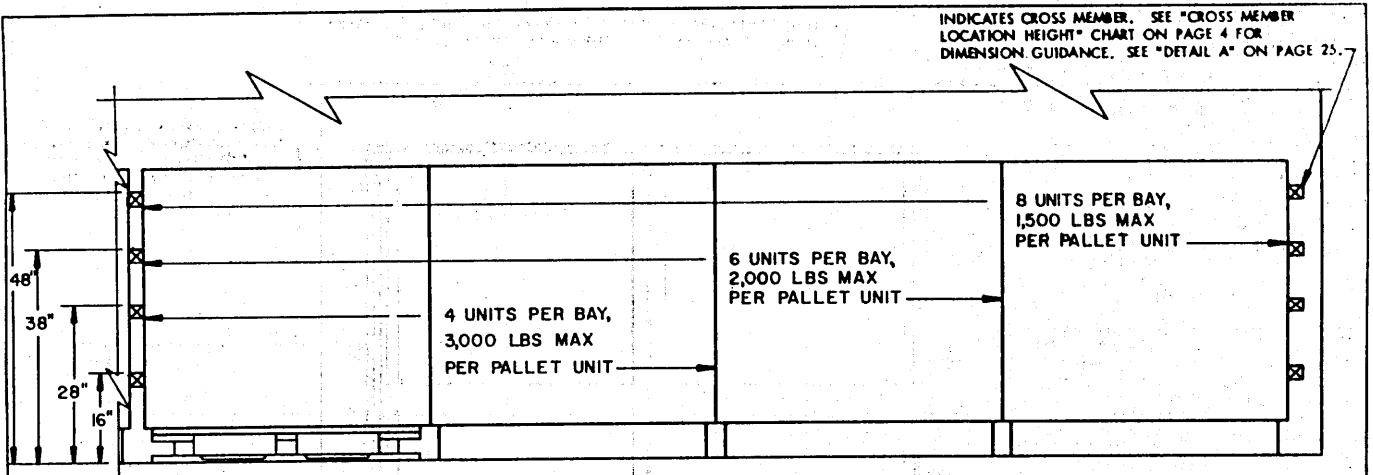
METHOD J

PALLET UNIT NO. 10 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (4 PALLET UNITS PER BAY - TWO WIDE, TWO LONG AND ONE HIGH). METHOD J MAY BE USED IF:

- THE PALLET UNIT IS 38" HIGH OR MORE (THIS ALLOWS FOR THREE CROSS MEMBER LOCATIONS AGAINST THE PALLET UNIT).
- THE PALLET UNIT WEIGHT IS 2,250 POUNDS OR LESS.
- THE PALLET PROJECTS BEYOND THE LOAD WIDTH MORE THAN 1-3/8".

NOTE (C) :

IN THE SITUATION SHOWN ABOVE LESS CROSS MEMBERS WOULD BE REQUIRED IF A RUBBING STRIP AS SHOWN IN "DETAIL D" ON PAGE 26 WERE USED BETWEEN THE BAYS. APPLY ON ONE SIDE IF THE PALLET PROJECTS FROM 1-3/8" TO 1-3/4"; APPLY ON BOTH SIDES IF THE PALLET PROJECTS FROM 1-3/4" TO 2-1/8".



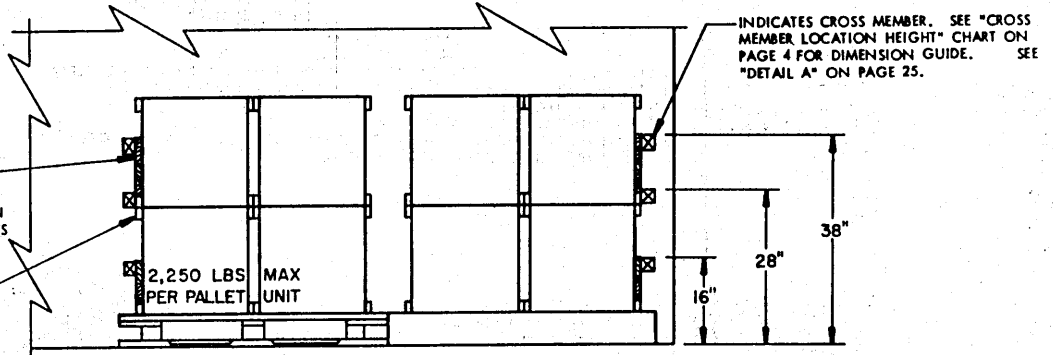
METHOD K

PALLET UNIT NO. 75 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (8 PALLET UNITS PER BAY — TWO WIDE, FOUR LONG AND ONE HIGH). METHOD K MAY BE USED IF:

- THE PALLET UNIT IS 48" HIGH OR MORE (THIS ALLOWS FOR FOUR CROSS MEMBER LOCATIONS AGAINST THE PALLET UNIT).
- THE PALLET UNIT WEIGHT IS 1,500 POUNDS OR LESS FOR 8 UNITS PER BAY, 2,000 POUNDS OR LESS FOR 6 PER BAY, OR 3,000 POUNDS OR LESS FOR 4 PER BAY.
- THE PALLET PROJECTS BEYOND THE LOAD WIDTH 1-3/8" OR LESS, OR
- THE LOAD OVERHANGS THE PALLET.

SOLID FILL, 1" THICK MATERIAL BY A WIDTH TO SUIT BY UNIT LENGTH (AS REQD). PRE-POSITION IN LINE WITH THE CROSS MEMBER AND STAPLE THE UNITIZING STRAP TO THE SOLID FILL.

INDICATES A BOX POSITIONED ON A PALLET SO THAT THE END CLEATS ARE PARALLEL WITH THE FLOOR AND ARE ON A SIDE OF THE PALLET UNIT ADJACENT TO THE CROSS MEMBERS.



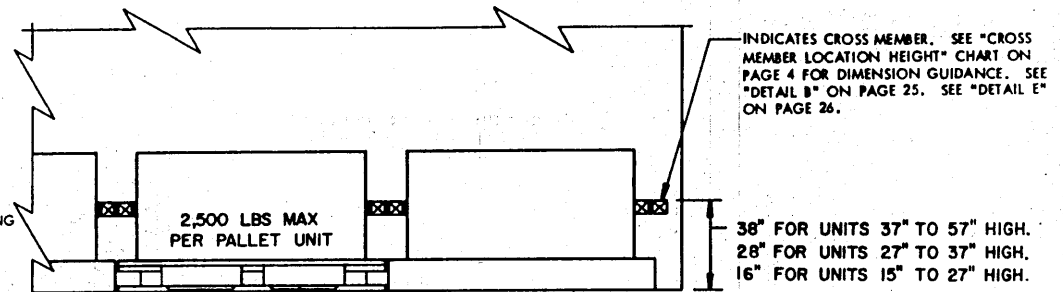
METHOD L

PALLET UNIT NO. 216 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (4 PALLET UNITS PER BAY — TWO WIDE, TWO LONG AND ONE HIGH). METHOD L MAY BE USED IF:

- THE PALLET UNIT IS 38" HIGH OR MORE (THIS ALLOWS FOR THREE CROSS MEMBER LOCATIONS AGAINST THE PALLET UNIT).
- THE PALLET UNIT WEIGHT IS 2,250 POUNDS OR LESS.
- IF THE BOX CLEATS ARE POSITIONED AS SHOWN ABOVE AND THE CROSS MEMBER FALLS ON THE VOID SOLID FILL MUST BE USED. NOTE THAT THE FILL MATERIAL IS NOT REQUIRED IF ALL THE CROSS MEMBERS ALIGN WITH CLEATS OR IF ALL THE CROSS MEMBERS CONTACT THE BOXES BETWEEN THE CLEATS.

NOTE ⊕:

EXCESS SPACE BETWEEN THE PALLET UNITS MAY BE FILLED BY THE USE OF RUBBING STRIP MATERIAL AS SHOWN. SEE "DETAIL E" ON PAGE 26. THIS PROCEDURE MAY BE USED IN CONJUNCTION WITH METHODS A, B, D, F, G, H, OR K TO PROVIDE CONTACT WITH THE LADING ON THE ADJACENT PALLET UNITS ON BOTH SIDES OF THE INSTALLED CROSS MEMBER ASSEMBLIES WITHOUT INSTALLING AN ADDITIONAL CROSS MEMBER AT EACH LOCATION.



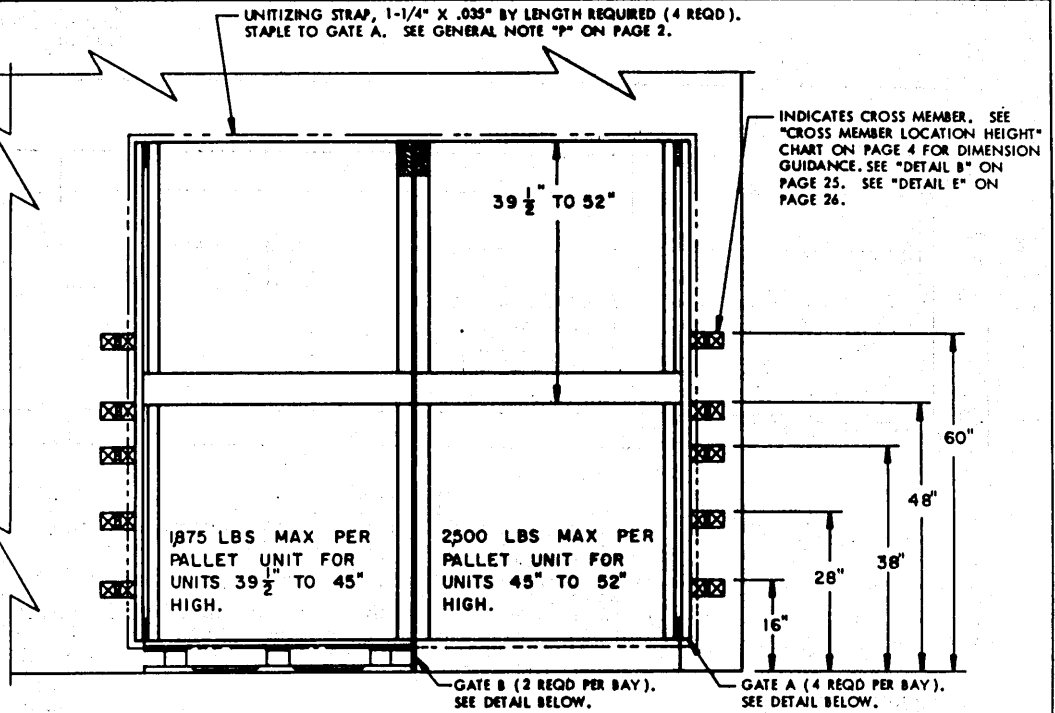
METHOD M

PALLET UNIT NO. 8 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (2 PALLET UNITS PER BAY).

- METHOD M MAY BE USED IF:
- THE PALLET UNIT IS 16" HIGH OR MORE.
 - THE PALLET UNIT WEIGHT IS 2,900 POUNDS OR LESS.
 - THE PALLET PROJECTS BEYOND THE LOAD WIDTH 3-1/2" OR LESS. (SEE "NOTE ⊕" AT LEFT).

SPECIAL NOTES:

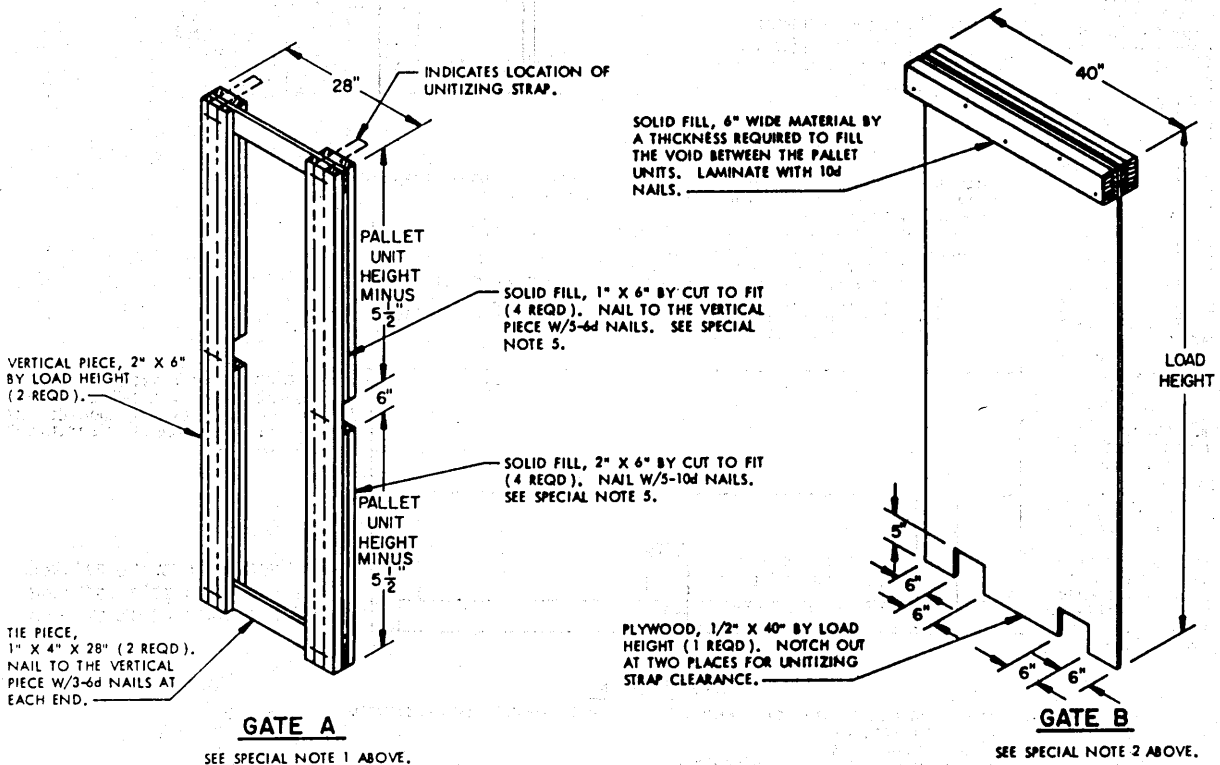
1. GATE A IS NOT REQUIRED IF THE LOAD IS FLUSH WITH THE PALLET WIDTH OR PROTRUDES BEYOND THE PALLET WIDTH. SEE "METHOD O" ON PAGE 13.
2. GATE B IS NOT REQUIRED IF THE LOAD IS FLUSH WITH THE PALLET WIDTH OR PROTRUDES BEYOND THE PALLET WIDTH. HOWEVER, A PLYWOOD FILL WOULD BE REQUIRED BETWEEN THE PALLET UNITS. SEE "METHOD O" ON PAGE 13.
3. FOR PALLET UNITS WHICH ARE OVER 40" HIGH AND STACKED TWO HIGH, ALWAYS USE DOUBLE CROSS MEMBERS. THE LOAD IS RETAINED BY THE CROSS MEMBERS AGAINST THE BOTTOM PALLET UNIT WHILE THE CROSS MEMBERS AGAINST THE TOP PALLET UNIT PREVENT TIPPING.
4. IF THE PALLET UNIT WEIGHT IS MORE THAN 1,875 POUNDS, CROSS MEMBERS MUST BE TRIPLED.
5. SELECT SOLID FILL PIECES OF A THICKNESS REQUIRED TO CONTACT THE PALLET UNIT, SO THE VERTICAL PIECE OF GATE "A" DOES NOT CONTACT THE PALLET.

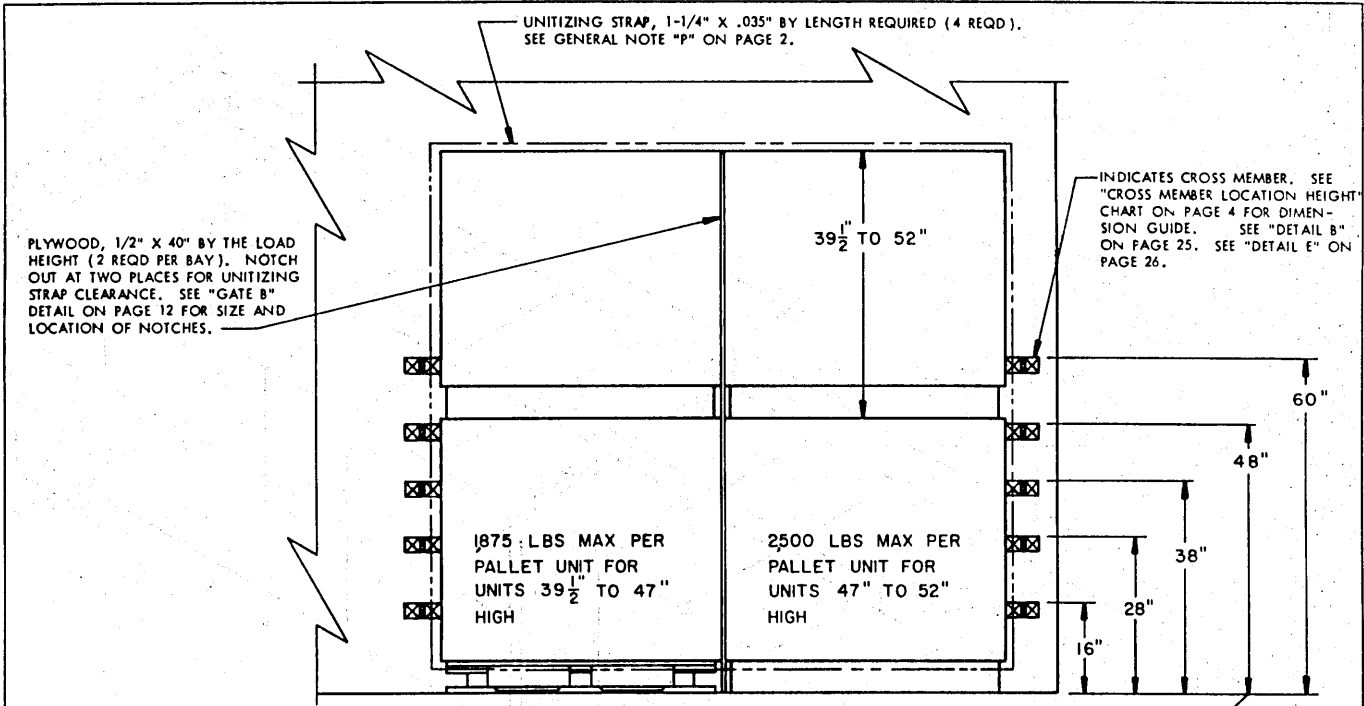


METHOD N

PALLET UNIT NO. 10 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (8 PALLET UNITS PER BAY - TWO WIDE, TWO LONG AND TWO HIGH). METHOD N MAY BE USED IF:

- A. THE PALLET UNIT IS 39-1/2" TO 52" HIGH.
- B. THE PALLET UNIT WEIGHT IS 1,875 POUNDS OR LESS. (SEE SPECIAL NOTE 4 ABOVE).
- C. THE PALLET PROJECTS BEYOND THE LOAD WIDTH.





METHOD O

PALLET UNIT NO. 25 SHOWN ON DRAWING 19-48-4020-1-2-5-11PA1000 REV 1 IS DEPICTED (8 PALLET UNITS PER BAY — TWO WIDE, TWO LONG AND TWO HIGH) METHOD O MAY BE USED IF:

- A. THE PALLET UNIT IS 39-1/2" TO 52" HIGH.
- B. THE PALLET UNIT WEIGHT IS 1,875 POUNDS OR LESS (SEE SPECIAL NOTE 4 ON PAGE 12).
- C. THE LOAD IS FLUSH WITH THE PALLET OR EXTENDS BEYOND THE PALLET WIDTH.

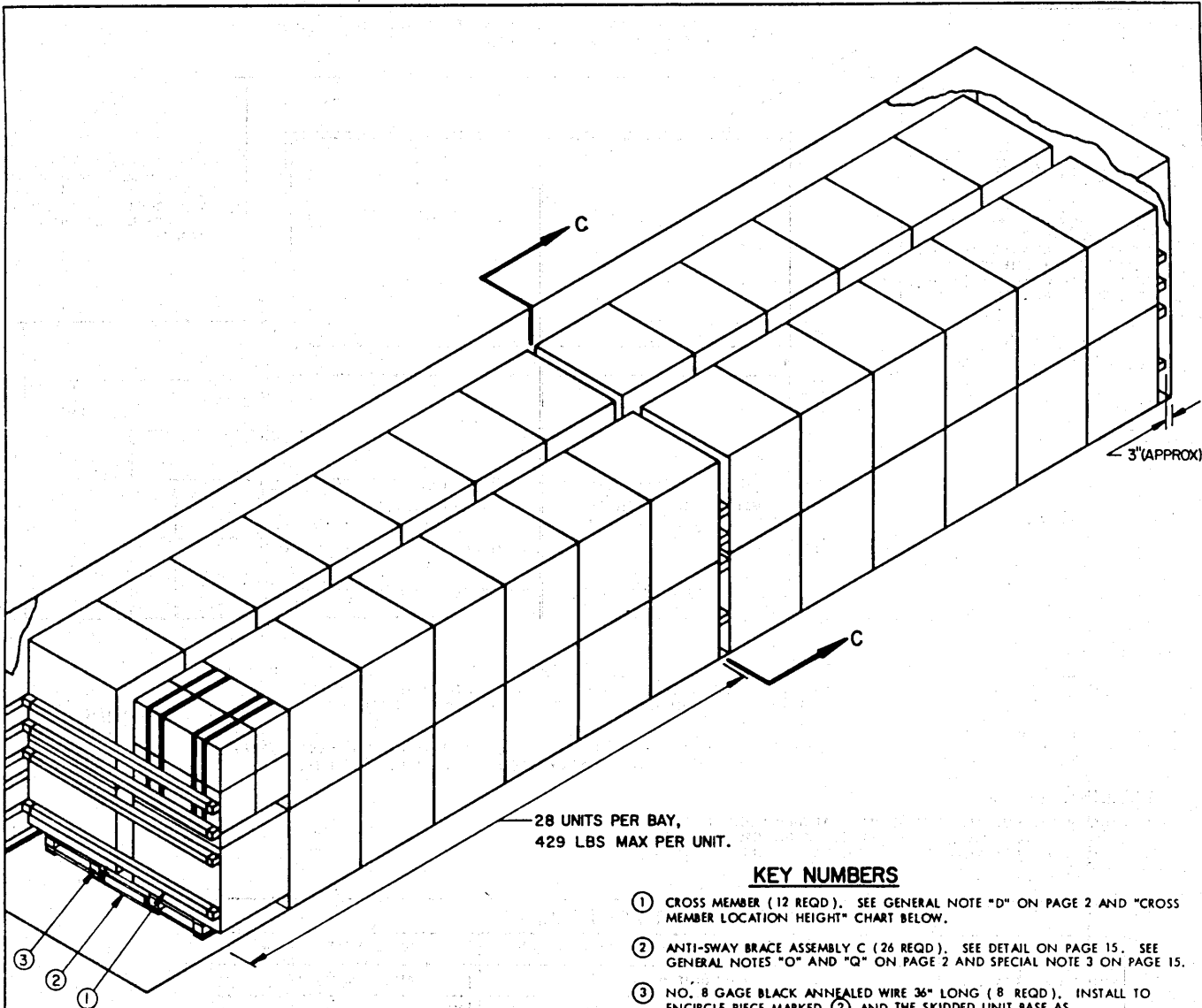
CAUTION: SEE SPECIAL NOTE 1 BELOW.

SPECIAL NOTE:

- 1. **CAUTION:** DO NOT USE THE CROSS MEMBER AT THE 48" HEIGHT FOR PALLET UNITS WHICH ARE 41" TO 47" IN HEIGHT BECAUSE THE CROSS MEMBER WILL BE ADJACENT TO THE VOID FORMED BY THE PALLET OF THE UPPER-LAYER PALLET UNIT.

PALLET CONFIGURATION	FOR FULL TWO-LAYER OR PARTIAL SECOND-LAYER LOADS*			FOR ONE-LAYER LOADS*	
	PALLET UNIT HEIGHT			PALLET UNIT HEIGHT	
	16-1/2" TO 40"	28-1/2" TO 39-1/2"	39-1/2" TO 52"	38" TO 57"	48" TO MAX
LADING FLUSH WITH OR EXTENDING BEYOND 40" EDGE OF PALLET	1,500 LBS MAX, USE "METHOD A"	3,000 LBS MAX, USE "METHOD D"	1,875 LBS OR 2,500 LBS MAX, USE "METHOD O"	2,250 LBS MAX, USE "METHOD H"	1,500 LBS TO 3,000 LBS MAX, USE "METHOD K"
LADING SET-IN 1-3/8" OR LESS FROM 40" EDGE OF PALLET	1,500 LBS MAX, USE "METHOD A"	3,000 LBS MAX, USE "METHOD D"	1,875 LBS OR 2,500 LBS MAX, USE "METHOD N"	2,250 LBS MAX, USE "METHOD H"	1,500 LBS TO 3,000 LBS MAX, USE "METHOD K"
LADING SET-IN 1-1/2" TO 2-3/4" FROM 40" EDGE OF PALLET	2,500 LBS MAX, USE "METHOD B"	2,500 LBS MAX, USE "METHOD G"	1,875 LBS OR 2,500 LBS MAX, USE "METHOD N"	2,250 LBS MAX, USE "METHOD J"	
LADING SET-IN 2-7/8" TO 4-3/8" FROM 40" EDGE OF PALLET	3,250 LBS MAX, USE "METHOD F"	3,000 LBS MAX, USE "METHOD E"	1,875 LBS OR 2,500 LBS MAX, USE "METHOD N"	2,250 LBS MAX, USE "METHOD J"	
LADING SET-IN MORE THAN 4-3/8" FROM 40" EDGE OF PALLET	2,500 LBS MAX, USE "METHOD C"	3,000 LBS MAX, USE "METHOD E"	1,875 LBS OR 2,500 LBS MAX, USE "METHOD N"	2,250 LBS MAX, USE "METHOD J"	

* THE METHODS DESIGNATED WITHIN THIS CHART FOR USE WITH TWO-LAYER LOADS MAY BE APPLIED FOR LOADS OF ONE LAYER BY USING ONLY THE LOWER ONE OR TWO CROSS MEMBER INSTALLATIONS, AS APPLICABLE.



28 UNITS PER BAY,
429 LBS MAX PER UNIT.

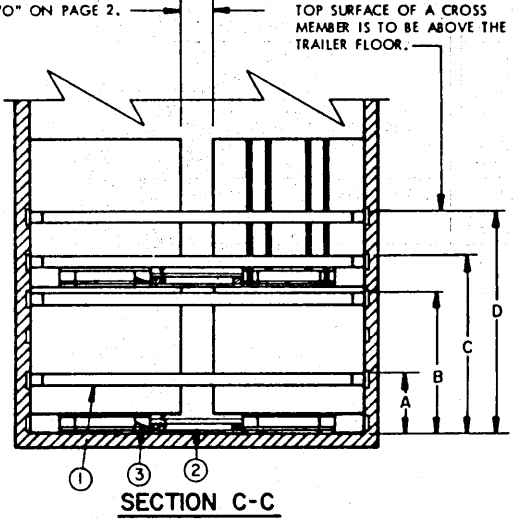
ISOMETRIC VIEW

KEY NUMBERS

- ① CROSS MEMBER (12 REQD.). SEE GENERAL NOTE "D" ON PAGE 2 AND "CROSS MEMBER LOCATION HEIGHT" CHART BELOW.
- ② ANTI-SWAY BRACE ASSEMBLY C (26 REQD.). SEE DETAIL ON PAGE 15. SEE GENERAL NOTES "O" AND "Q" ON PAGE 2 AND SPECIAL NOTE 3 ON PAGE 15.
- ③ NO. 8 GAGE BLACK ANNEALED WIRE 36" LONG (8 REQD.). INSTALL TO ENCIRCLE PIECE MARKED ② AND THE SKIDDED UNIT BASE AS SHOWN IN "SECTION C-C". TWO (2) WRAPS OF NO. 14 GAGE WIRE MAY BE USED AT EACH LOCATION IF NO. 8 GAGE IS NOT AVAILABLE.
- ④ SEPARATOR, 1/2" PLYWOOD WHICH IS UNIT LENGTH IN WIDTH BY LADING HEIGHT IN LENGTH (8 REQD.). POSITION BETWEEN THE INSTALLED CROSS MEMBERS AND THE LADING WHEN THE SKIDDED UNITS ARE LOADED SO THE WIDTH OF THE UNIT IS PARALLEL TO THE SIDEWALL OF THE TRAILER (NOT REQUIRED WHEN UNITS ARE POSITIONED AS SHOWN IN THE LOAD VIEW ABOVE). NOTE THAT LATERALLY ADJACENT SEPARATORS SHOULD BE SECURED AGAINST LATERAL MOVEMENT BY TYING TOGETHER WITH A 1" X 4" BY SUITABLE LENGTH PIECE OF LUMBER. LOCATE SO AS TO BE BETWEEN CROSS MEMBERS AND NAIL TO THE PLYWOOD W/2-6d NAILS AT EACH END AND CLINCH.

SEE GENERAL NOTE "O" ON PAGE 2.

THESE DIMENSIONED HEIGHTS SPECIFY THE DISTANCE THE TOP SURFACE OF A CROSS MEMBER IS TO BE ABOVE THE TRAILER FLOOR.



SECTION C-C

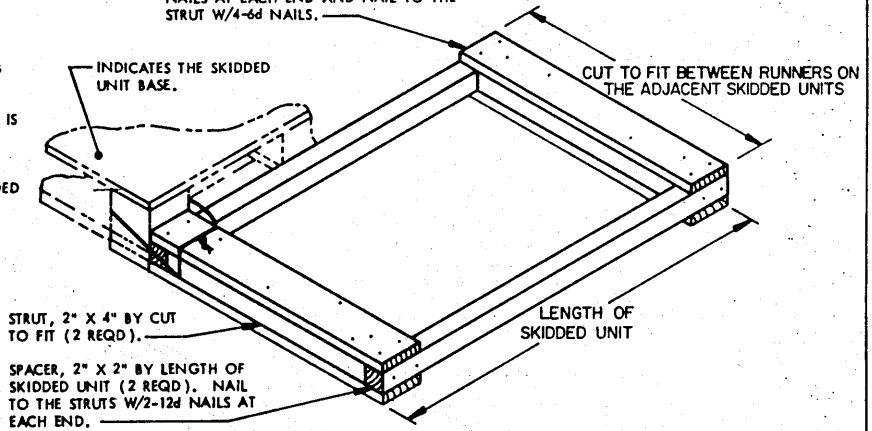
CROSS MEMBER LOCATION HEIGHT	
LOCATION IDENTITY*	DESCRIPTION FOR LOCATING CROSS MEMBERS IN VAN TRAILER
A	8-1/2" MINIMUM FROM THE FLOOR AND NOT MORE THAN 1/2 OF THE SKIDDED UNIT HEIGHT.
B	FROM THE TOP OF THE FIRST LAYER SKIDDED UNIT TO NOT LOWER THAN 1/2 OF THE SKIDDED UNIT HEIGHT.
C	FIRST LAYER SKIDDED UNIT HEIGHT PLUS 8-1/2" MINIMUM AND NOT MORE THAN 1/2 OF THE SKIDDED UNIT HEIGHT.
D	FROM THE TOP OF THE SECOND LAYER SKIDDED UNIT TO NOT LOWER THAN 1/2 OF THE SKIDDED UNIT HEIGHT.

* SEE GENERAL NOTE "R" ON PAGE 2.

SPECIAL NOTES:

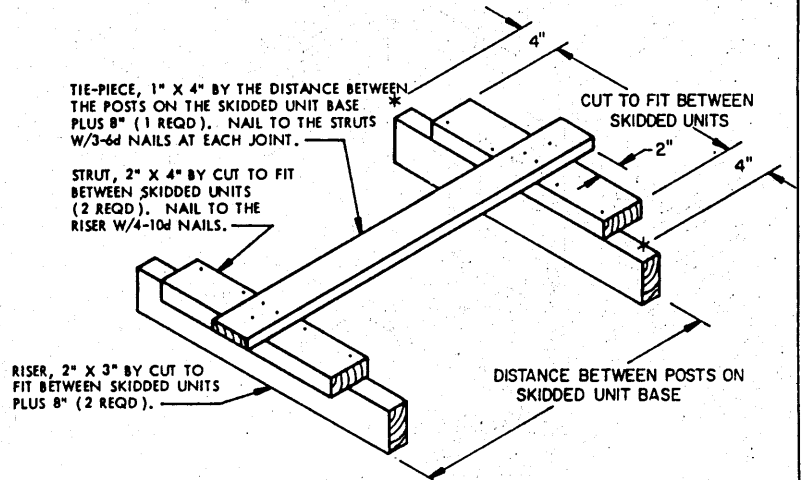
1. A 40'-0" LONG TRAILER IS SHOWN LOADED WITH FIFTY-TWO (52) SKIDDED UNITS. SHORTER TRAILERS MAY BE USED. THE NUMBER OF SKIDDED UNITS WHICH CAN ACTUALLY BE LOADED IN A TRAILER IS DEPENDENT UPON THE WIDTH, THE LENGTH, AND THE HEIGHT AND WEIGHT OF THE UNITS, AND UPON THE DIMENSIONS OF THE TRAILER BEING USED. THE LADING UNIT SHOWN IS TYPICAL AND REPRESENTS ALL OTHER SIMILAR UNITS (SKIDDED UNIT ITEM 11 ON PAGE 26 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED).
2. SEE METHODS P THROUGH W ON PAGES 22 THROUGH 24 FOR OTHER TYPICAL METHODS FOR THE LOADING OF SKIDDED UNITS. REFER TO THE "METHOD SELECTOR CHART FOR SKIDDED UNITS" ON PAGE 21 FOR GUIDANCE IN THE SELECTION OF A PROPER LOADING METHOD, BASED ON SIZE AND WEIGHT OF THE SKIDDED UNIT TO BE SHIPPED.
3. THE DEPICTED 2-WIDE LOAD IS APPLICABLE FOR UNITS WHICH ARE LESS THAN 46" WIDE. IF THE EXCESS SPACE ACROSS THE WIDTH OF THE TRAILER IS 6" OR MORE, ANTI-SWAY BRACE ASSEMBLIES MUST BE INSTALLED. DEPENDING UPON THE TYPE OF SKID BASE BEING LOADED, "ANTI-SWAY BRACE ASSEMBLY C", "E", OR "G", AS DETAILED ON PAGES 15, 17, AND 19, RESPECTIVELY, WILL BE USED.
4. THE DEPICTED LOADING PROCEDURE IS ALSO APPLICABLE FOR UNITS WHICH ARE TURNED 90° TO THAT SHOWN (EXCEPT FOR THE TYPE I BASE) IF THE UNITS ARE LESS THAN 46" LONG. IF THE TOTAL EXCESS SPACE ACROSS THE WIDTH OF THE TRAILER IS 6" OR MORE, ANTI-SWAY BRACE ASSEMBLIES MUST BE INSTALLED. DEPENDING UPON THE TYPE OF SKID BASE BEING LOADED, EITHER "ANTI-SWAY BRACE D" OR "F", AS DETAILED ON PAGE 15 OR 17, RESPECTIVELY, WILL BE USED.

TIE PIECE, 1" X 4" BY CUT TO FIT BETWEEN RUNNERS ON THE ADJACENT SKIDDED UNITS (4 REQD). NAIL TO THE SPACERS W/2-6d NAILS AT EACH END AND NAIL TO THE STRUT W/4-6d NAILS.



ANTI-SWAY BRACE ASSEMBLY C

USE WHEN THE SKIDDED UNITS ARE LOADED WITH THE UNIT LENGTH PARALLEL TO THE TRAILER SIDEWALL (BOXES CROSSWISE IN TRAILER). THIS ASSEMBLY IS DESIGNED FOR USE WITH THE TYPE III SKID BASE. REFER TO PAGE 3 FOR DETAIL OF A TYPICAL SKIDDED UNIT.



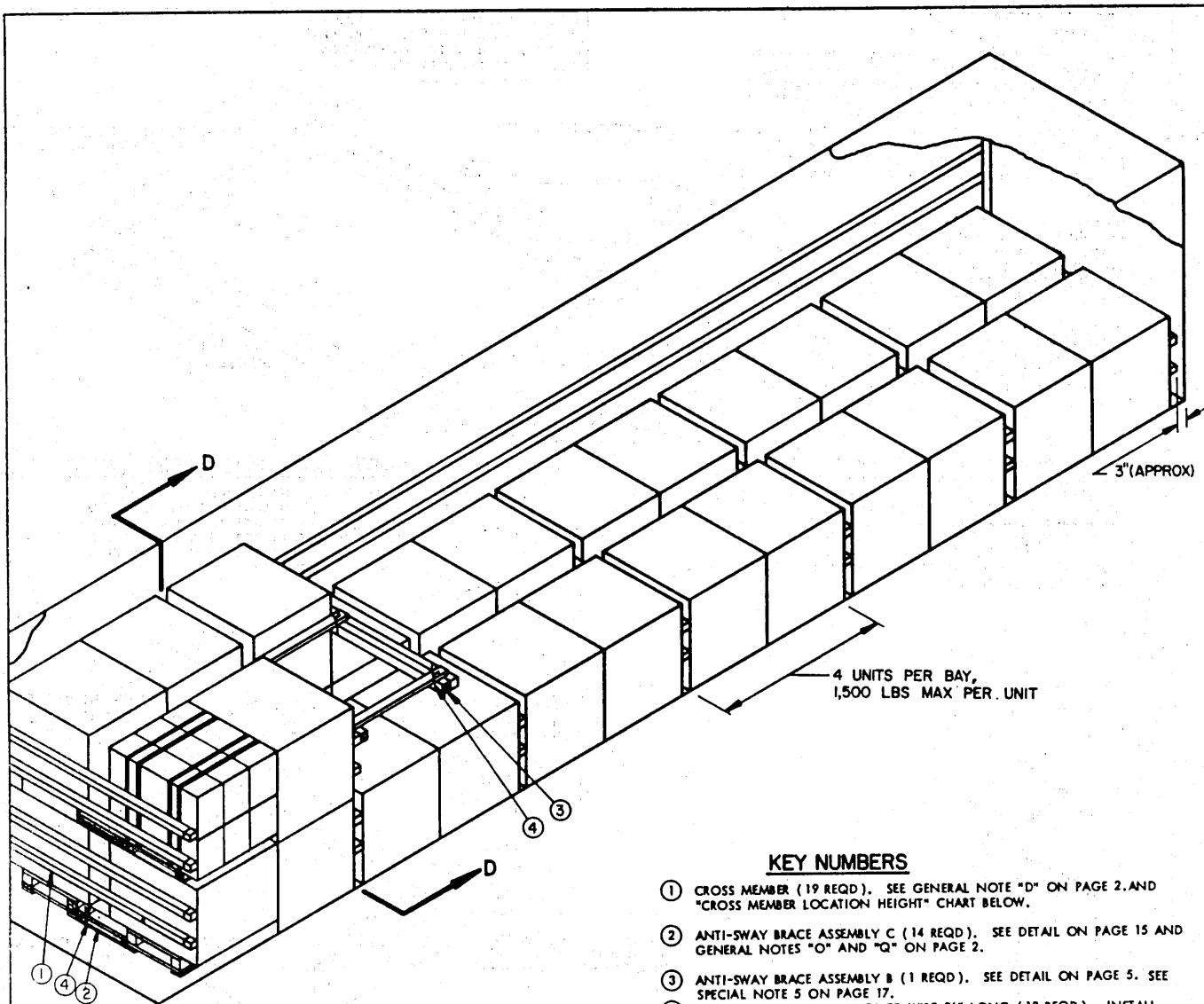
ANTI-SWAY BRACE ASSEMBLY D

USE WHEN THE SKIDDED UNITS ARE LOADED WITH THE UNIT WIDTH PARALLEL TO THE TRAILER SIDEWALL (BOXES LENGTHWISE IN THE TRAILER). THIS ASSEMBLY IS DESIGNED FOR USE WITH THE TYPE III SKID BASE. REFER TO PAGE 3 FOR DETAIL OF A TYPICAL SKIDDED UNIT.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	104	35
2" X 2"	146	49
2" X 4"	90	60
NAILS	NO. REQD	POUNDS
6d (2")	416	2-1/2
10d (3")	208	3-1/4
NO. 8 GAGE BLACK ANNEALED WIRE ----- 24' REQD ----- 2 LBS		

LOAD AS SHOWN (TYPICAL)

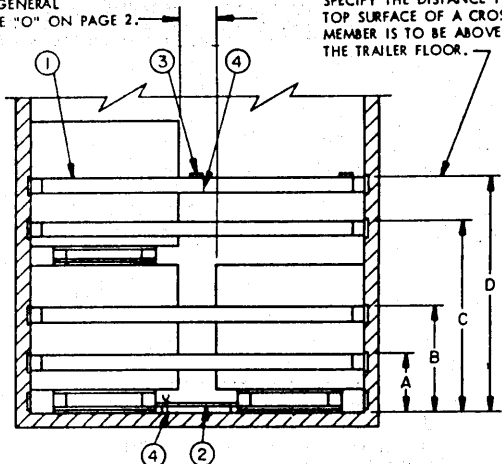
ITEM	QUANTITY	WEIGHT (APPROX)
SKIDDED UNIT	52	15,000 LBS
DUNNAGE		373 LBS
TOTAL WEIGHT		15,373 LBS



ISOMETRIC VIEW

SEE GENERAL NOTE "O" ON PAGE 2.

THE DIMENSIONED HEIGHTS SPECIFY THE DISTANCE FROM THE TOP SURFACE OF A CROSS MEMBER IS TO BE ABOVE THE TRAILER FLOOR.



SECTION D-D

KEY NUMBERS

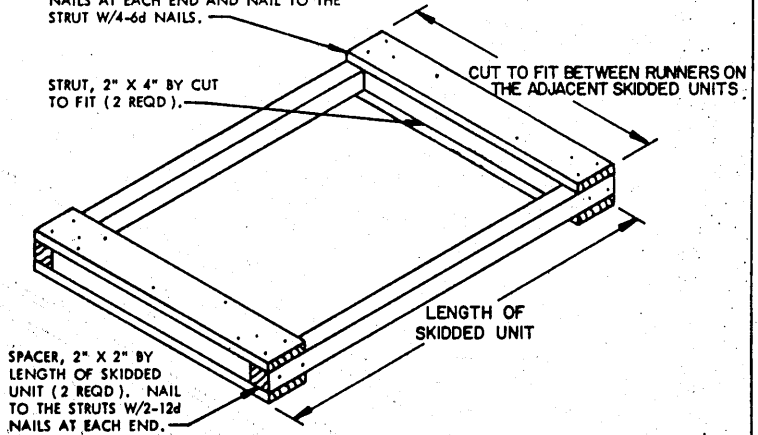
- ① CROSS MEMBER (19 REQD). SEE GENERAL NOTE "D" ON PAGE 2 AND "CROSS MEMBER LOCATION HEIGHT" CHART BELOW.
- ② ANTI-SWAY BRACE ASSEMBLY C (14 REQD). SEE DETAIL ON PAGE 15 AND GENERAL NOTES "O" AND "Q" ON PAGE 2.
- ③ ANTI-SWAY BRACE ASSEMBLY B (1 REQD). SEE DETAIL ON PAGE 5. SEE SPECIAL NOTE 5 ON PAGE 17.
- ④ NO. 8 GAGE BLACK ANNEALED WIRE 36" LONG (18 REQD). INSTALL TO ENCIRCLE PIECE MARKED ② AND POST ON THE SKIDDED UNIT BASE AND WIRE TIE PIECE MARKED ③ TO PIECE MARKED ① AT FOUR LOCATIONS AS SHOWN. TWO (2) WRAPS OF NO. 14 GAGE WIRE MAY BE USED AT EACH LOCATION IF NO. 8 GAGE IS NOT AVAILABLE.
- ⑤ SEPARATOR, 1/2" PLYWOOD WHICH IS UNIT LENGTH IN WIDTH BY LADING HEIGHT IN LENGTH (24 REQD). POSITION BETWEEN THE INSTALLED CROSS MEMBERS AND THE LADING WHEN THE SKIDDED UNITS ARE LOADED SO THE WIDTH OF THE UNIT IS PARALLEL TO THE SIDEWALL OF THE TRAILER (NOT REQUIRED WHEN UNITS ARE POSITIONED AS SHOWN IN THE LOAD VIEW ABOVE). NOTE THAT LATERALLY ADJACENT SEPARATORS SHOULD BE SECURED AGAINST LATERAL MOVEMENT BY TYING TOGETHER WITH A 1" X 4" BY SUITABLE LENGTH PIECE OF LUMBER. LOCATE SO AS TO BE BETWEEN CROSS MEMBERS AND NAIL TO THE PLYWOOD W/2-6d NAILS AT EACH END AND CLINCH.

CROSS MEMBER LOCATION HEIGHT	
LOCATION IDENTITY	DESCRIPTION FOR LOCATING CROSS MEMBERS IN VAN TRAILER
A	8-1/2" MINIMUM FROM THE FLOOR AND NOT MORE THAN 1/3 OF THE SKIDDED UNIT HEIGHT.
B	FROM THE TOP OF THE FIRST LAYER SKIDDED UNIT TO NOT LOWER THAN 1/3 OF THE SKIDDED UNIT HEIGHT.
C	FIRST LAYER SKIDDED UNIT HEIGHT PLUS 8-1/2" MINIMUM AND NOT MORE THAN 1/2 OF THE SKIDDED UNIT HEIGHT.
D	FROM THE TOP OF THE SECOND LAYER SKIDDED UNIT TO NOT LOWER THAN 1/2 OF THE SKIDDED UNIT HEIGHT.

SPECIAL NOTES:

1. A 40'-0" LONG TRAILER IS SHOWN LOADED WITH TWENTY-NINE (29) SKIDDED UNITS. SHORTER TRAILERS MAY BE USED. THE NUMBER OF SKIDDED UNITS WHICH CAN ACTUALLY BE LOADED IN A TRAILER IS DEPENDENT UPON THE WIDTH, THE LENGTH, AND THE HEIGHT AND WEIGHT OF THE UNITS, AND UPON THE DIMENSIONS OF THE TRAILER BEING USED. THE LADING UNIT SHOWN IS TYPICAL AND REPRESENTS ALL OTHER SIMILAR UNITS (SKIDDED UNIT ITEM 46 ON PAGE 26 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED).
2. SEE METHODS P THROUGH W ON PAGES 22 THROUGH 24 FOR OTHER TYPICAL METHODS FOR THE LOADING OF SKIDDED UNITS. REFER TO "METHOD SELECTOR CHART FOR SKIDDED UNITS" ON PAGE 21 FOR GUIDANCE IN THE SELECTION OF A PROPER LOADING METHOD, BASED ON THE SIZE AND WEIGHT OF THE SKIDDED UNIT TO BE SHIPPED.
3. THE DEPICTED 2-WIDE LOAD IS APPLICABLE FOR UNITS WHICH ARE LESS THAN 46" WIDE. IF THE EXCESS SPACE ACROSS THE WIDTH OF THE TRAILER IS 6" OR MORE, ANTI-SWAY BRACE ASSEMBLIES MUST BE INSTALLED. DEPENDING UPON THE TYPE OF SKID BASE BEING LOADED, "ANTI-SWAY BRACE ASSEMBLY C", "E", OR "G", AS DETAILED ON PAGES 15, 17, AND 19, RESPECTIVELY, WILL BE USED.
4. THE DEPICTED LOADING PROCEDURE IS ALSO APPLICABLE FOR UNITS WHICH ARE TURNED 90° TO THAT SHOWN (EXCEPT FOR THE TYPE I BASE) IF THE UNITS ARE LESS THAN 46" LONG. IF THE TOTAL EXCESS SPACE ACROSS THE WIDTH OF THE TRAILER IS 6" OR MORE, ANTI-SWAY BRACE ASSEMBLIES MUST BE INSTALLED. DEPENDING UPON THE TYPE OF SKID BASE BEING LOADED, EITHER "ANTI-SWAY BRACE D" OR "F", AS DETAILED ON PAGES 15 AND 17, RESPECTIVELY, WILL BE USED.
5. AN "ANTI-SWAY BRACE ASSEMBLY B" IS INCLUDED IN THE LOAD VIEW ONLY TO SHOW THE METHOD FOR OMITTING ONE SKIDDED UNIT; A SKIDDED UNIT MAY BE LOADED IN PLACE OF IT.

TIE PIECE, 1" X 4" BY CUT TO FIT BETWEEN RUNNERS ON THE ADJACENT SKIDDED UNITS (4 REQD). NAIL TO THE SPACERS W/2-6d NAILS AT EACH END AND NAIL TO THE STRUT W/4-6d NAILS.



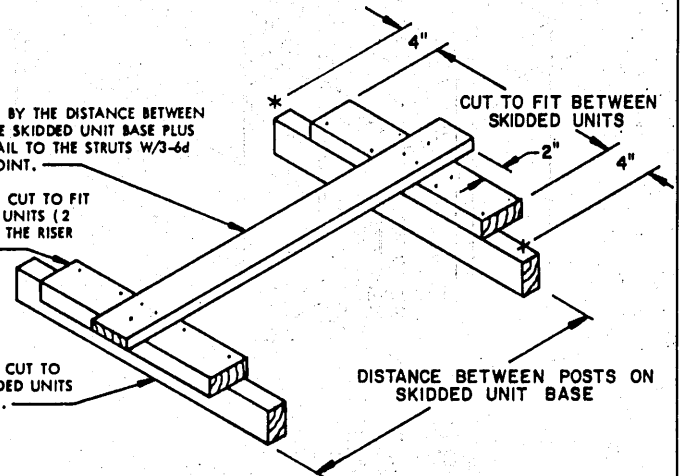
ANTI-SWAY BRACE ASSEMBLY E

THIS ASSEMBLY IS DESIGNED FOR USE WITH THE TYPE II SKID BASE WHEN THE SKIDDED UNITS ARE LOADED IN THE TRAILER WITH THE LENGTH OF THE UNIT PARALLEL TO THE TRAILER SIDEWALL (BOXES CROSSWISE IN TRAILER). REFER TO PAGE 3 FOR DETAIL OF A TYPICAL SKIDDED UNIT.

TIE-PIECE, 1" X 4" BY THE DISTANCE BETWEEN THE POSTS ON THE SKIDDED UNIT BASE PLUS 8" (1 REQD). NAIL TO THE STRUTS W/3-6d NAILS AT EACH JOINT.

STRUT, 2" X 4" BY CUT TO FIT BETWEEN SKIDDED UNITS (2 REQD). NAIL TO THE RISER W/4-10d NAILS.

RISER, 2" X 3" BY CUT TO FIT BETWEEN SKIDDED UNITS PLUS 8" (2 REQD).



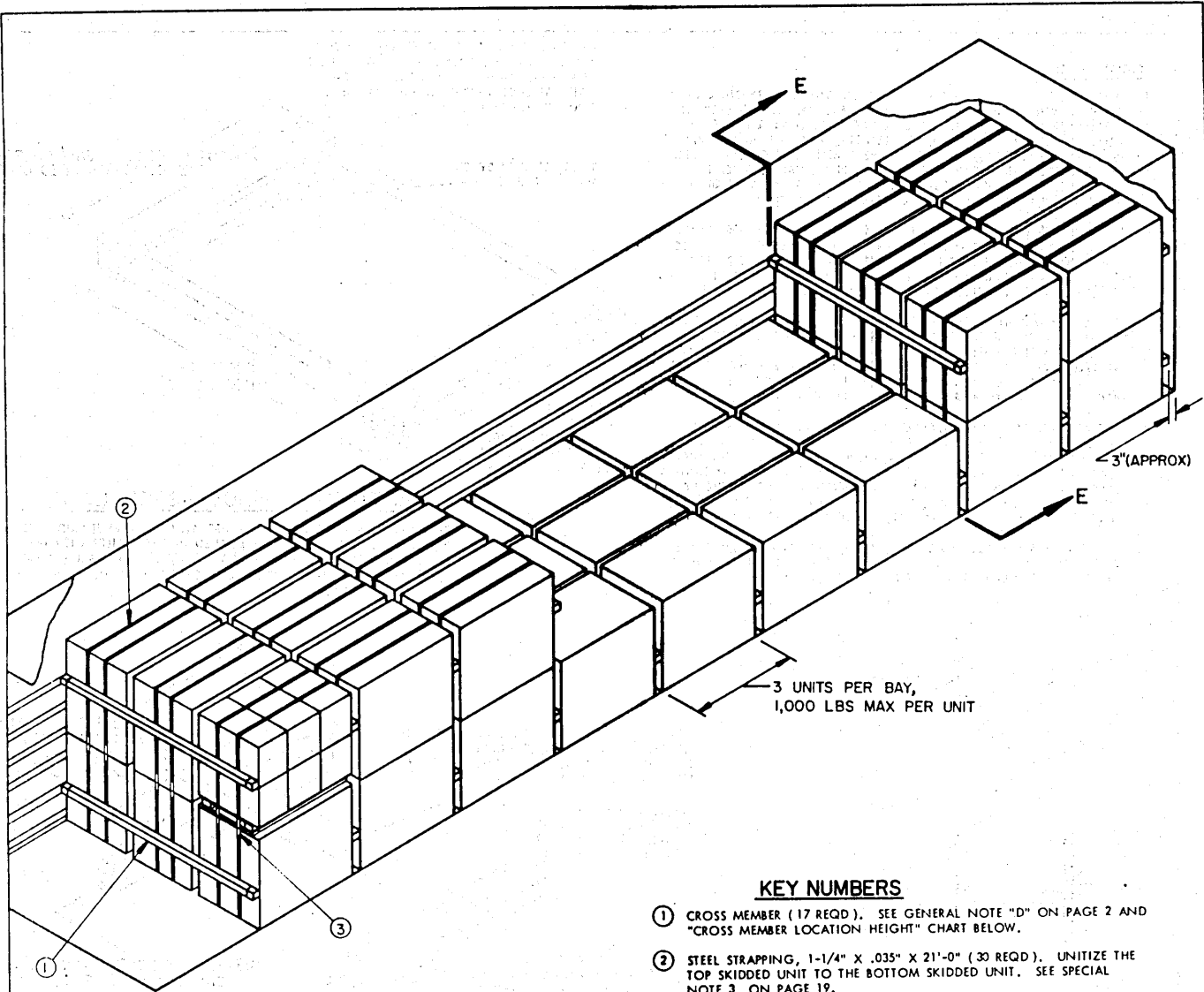
ANTI-SWAY BRACE ASSEMBLY F

THIS ASSEMBLY IS DESIGNED FOR USE WITH THE TYPE II SKID BASE WHEN THE SKIDDED UNITS ARE LOADED IN THE TRAILER WITH THE WIDTH OF THE UNIT PARALLEL TO THE TRAILER SIDEWALL (BOXES LENGTHWISE IN THE TRAILERS). REFER TO PAGE 3 FOR DETAIL OF A TYPICAL SKIDDED UNIT.

BILL OF MATERIAL (TYPICAL)		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	56	19
2" X 2"	85	29
2" X 4"	59	40
4" X 4"	9	12
NAILS	NO. REQD	POUNDS
6d (2")	224	1-1/2
10d (3")	124	2
NO. 8 GAGE BLACK ANNEALED WIRE ----- 54' REQD ----- 5 LBS		

LOAD AS SHOWN (TYPICAL)

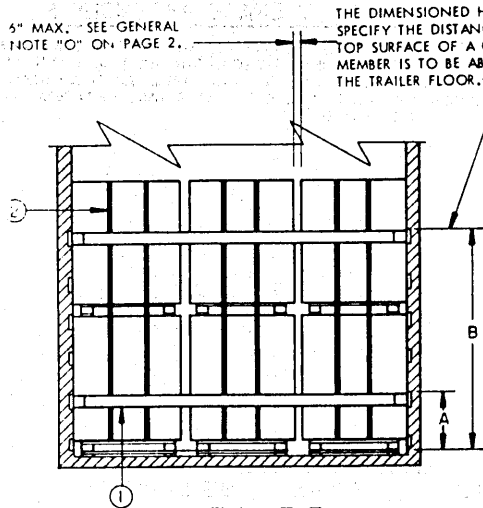
ITEM	QUANTITY	WEIGHT (APPROX)
SKIDDED UNIT	29	39,092 LBS
DUNNAGE		265 LBS
TOTAL WEIGHT		39,357 LBS



ISOMETRIC VIEW

6" MAX. - SEE GENERAL NOTE "O" ON PAGE 2.

THE DIMENSIONED HEIGHTS SPECIFY THE DISTANCE THE TOP SURFACE OF A CROSS MEMBER IS TO BE ABOVE THE TRAILER FLOOR.



SECTION E-E

KEY NUMBERS

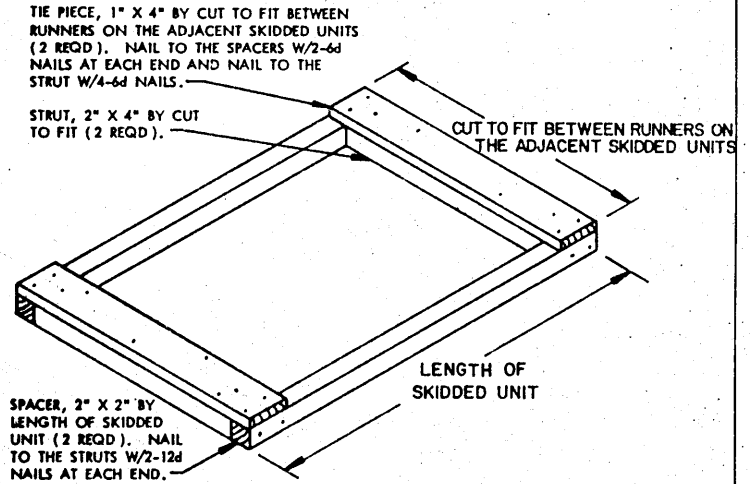
- ① CROSS MEMBER (17 REQD). SEE GENERAL NOTE "D" ON PAGE 2 AND "CROSS MEMBER LOCATION HEIGHT" CHART BELOW.
- ② STEEL STRAPPING, 1-1/4" X .035" X 21'-0" (30 REQD). UNITIZE THE TOP SKIDDED UNIT TO THE BOTTOM SKIDDED UNIT. SEE SPECIAL NOTE 3 ON PAGE 19.
- ③ SEAL FOR 1-1/4" STRAPPING (60 REQD). SEE GENERAL NOTE "P" ON PAGE 2.
- ④ SEPARATOR, 1/2" PLYWOOD WHICH IS TRAILER WIDTH MINUS 1/2" BY LADING HEIGHT (18 REQD). POSITION BETWEEN THE INSTALLED CROSS MEMBERS AND THE LADING WHEN THE SKIDDED UNITS ARE LOADED SO THE WIDTH OF THE UNIT IS PARALLEL TO THE SIDEWALL OF THE TRAILER (NOT REQUIRED WHEN UNITS ARE POSITIONED AS SHOWN IN THE LOAD VIEW ABOVE). SPLICE THE JOINT OF PIECES WITH 1" X 4" MATERIAL LOCATED SO AS TO BE BETWEEN CROSS MEMBERS. NAIL W/6d NAILS AND CLINCH.

CROSS MEMBER LOCATION HEIGHT	
LOCATION IDENTITY*	DESCRIPTION FOR LOCATING CROSS MEMBERS IN VAN TRAILER
A	8-1/2" MINIMUM FROM THE FLOOR AND NOT MORE THAN 1/3 OF THE SKIDDED UNIT HEIGHT.
B	FROM THE TOP OF THE SECOND LAYER SKIDDED UNIT TO NOT LOWER THAN 1/2 OF THE SKIDDED UNIT HEIGHT.

*SEE GENERAL NOTE "R" ON PAGE 2.

SPECIAL NOTES:

1. A 40'-0" LONG TRAILER IS SHOWN LOADED WITH FORTY-TWO (42) SKIDDED UNITS. SHORTER TRAILERS MAY BE USED. THE NUMBER OF SKIDDED UNITS WHICH CAN ACTUALLY BE LOADED IN A TRAILER IS DEPENDENT UPON THE WIDTH, THE LENGTH, AND THE HEIGHT AND WEIGHT OF THE UNITS, AND UPON THE DIMENSIONS OF THE TRAILER BEING USED. THE LADING UNIT SHOWN IS TYPICAL AND REPRESENTS ALL OTHER SIMILAR UNITS (SKIDDED UNIT ITEM 44 ON PAGE 24 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED).
2. SEE METHODS P THROUGH W ON PAGES 22 THROUGH 24 FOR OTHER TYPICAL METHODS FOR THE LOADING OF SKIDDED UNITS.
3. UNITIZING STRAP SHOWN AS PIECE MARKED ② IS NOT REQUIRED IF THE SECOND LAYER CROSS MEMBER IS LOCATED ON THE UPPER 1/2 OF THE SKIDDED UNIT.
4. THE DEPICTED 3-WIDE LOAD IS APPLICABLE FOR UNITS WHICH ARE FROM 27" TO 30-1/2" WIDE. IF THE TOTAL EXCESS SPACE ACROSS THE WIDTH OF THE TRAILER IS 6" OR MORE, ANTI-SWAY BRACE ASSEMBLIES MUST BE INSTALLED. DEPENDING UPON THE TYPE OF SKID BASE BEING LOADED, "ANTI-SWAY BRACE ASSEMBLY C", "E", OR "G", AS DETAILED ON PAGES 15, 17, AND 19, RESPECTIVELY, WILL BE USED.
5. THE DEPICTED LOADING PROCEDURE IS ALSO APPLICABLE FOR UNITS WHICH ARE TURNED 90° TO THAT SHOWN (EXCEPT FOR THE TYPE I BASE) IF THE UNITS ARE FROM 27" TO 30-1/2" LONG. IF THE TOTAL EXCESS SPACE ACROSS THE WIDTH OF THE TRAILER IS 6" OR MORE, ANTI-SWAY BRACE ASSEMBLIES MUST BE INSTALLED. DEPENDING UPON THE TYPE OF SKID BASE BEING LOADED, EITHER "ANTI-SWAY BRACE ASSEMBLY D" OR "F", AS DETAILED ON PAGES 15 AND 17, RESPECTIVELY, WILL BE USED.
6. REFER TO THE "METHOD SELECTOR CHART FOR SKIDDED UNITS" ON PAGE 21 FOR GUIDANCE IN THE SELECTION OF A PROPER LOADING METHOD, BASED ON THE SIZE AND WEIGHT OF THE SKIDDED UNIT TO BE SHIPPED.



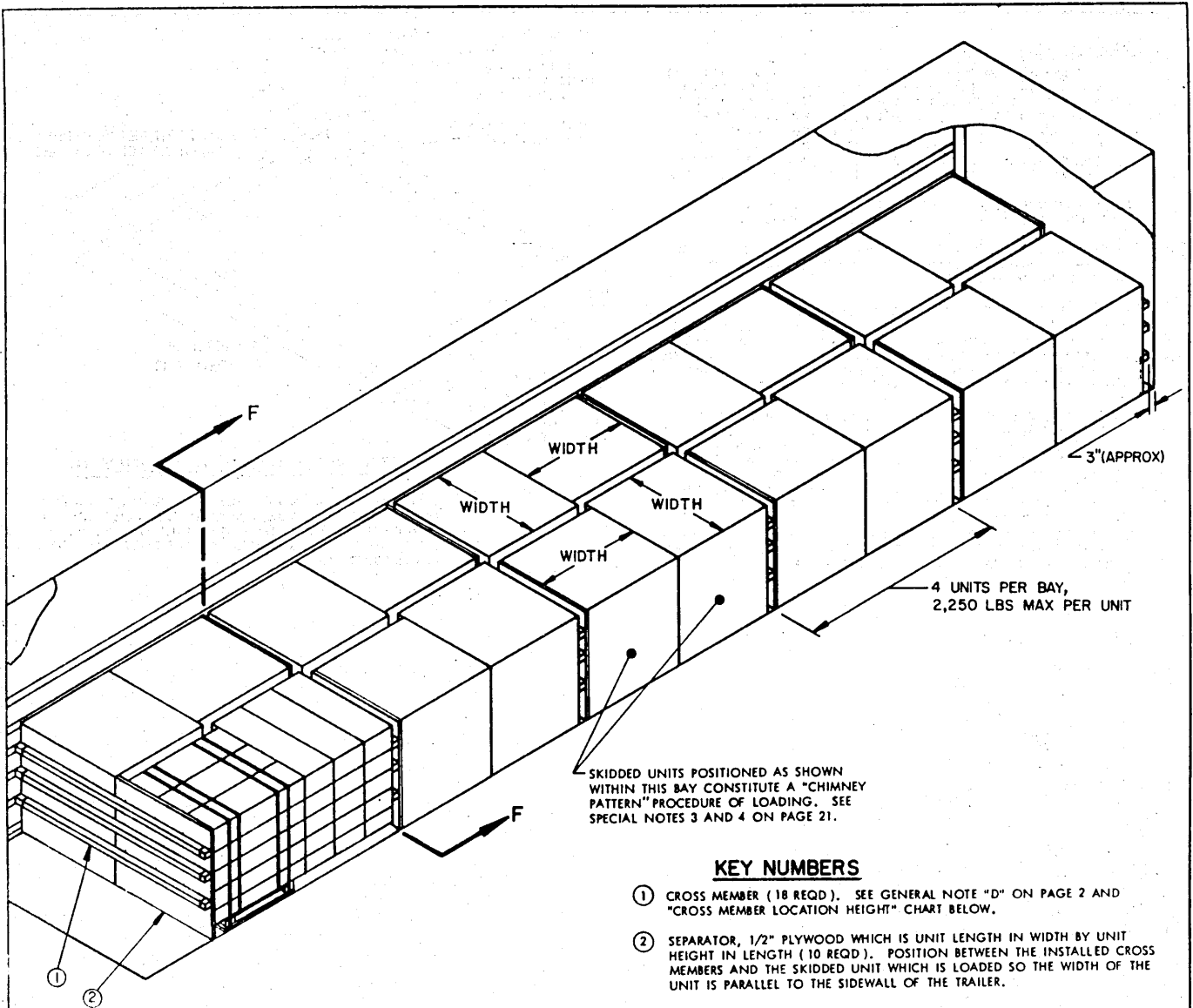
ANTI-SWAY BRACE ASSEMBLY G

THIS ASSEMBLY IS DESIGNED FOR USE WITH THE TYPE I SKID BASE WHEN THE SKIDDED UNITS ARE LOADED IN THE TRAILER WITH THE LENGTH OF THE UNIT PARALLEL TO THE TRAILER SIDEWALL (BOXES CROSSWISE IN THE TRAILER). REFER TO PAGE 3 FOR DETAIL OF A TYPICAL SKIDDED UNIT.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
SKIDDED UNIT	42	42,000 LBS
DUNNAGE		93 LBS
TOTAL WEIGHT		42,093 LBS

TYPICAL 43-UNIT LOAD (SKIDDED)



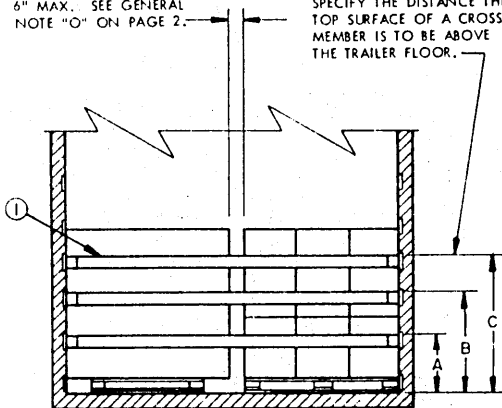
ISOMETRIC VIEW

KEY NUMBERS

- ① CROSS MEMBER (18 REQD). SEE GENERAL NOTE "D" ON PAGE 2 AND "CROSS MEMBER LOCATION HEIGHT" CHART BELOW.
- ② SEPARATOR, 1/2" PLYWOOD WHICH IS UNIT LENGTH IN WIDTH BY UNIT HEIGHT IN LENGTH (10 REQD). POSITION BETWEEN THE INSTALLED CROSS MEMBERS AND THE SKIDDED UNIT WHICH IS LOADED SO THE WIDTH OF THE UNIT IS PARALLEL TO THE SIDEWALL OF THE TRAILER.

6" MAX. SEE GENERAL NOTE "O" ON PAGE 2.

THE DIMENSIONED HEIGHTS SPECIFY THE DISTANCE THE TOP SURFACE OF A CROSS MEMBER IS TO BE ABOVE THE TRAILER FLOOR.



SECTION F-F

CROSS MEMBER LOCATION HEIGHT	
LOCATION IDENTITY*	DESCRIPTION FOR LOCATING CROSS MEMBERS IN VAN TRAILER
A	8-1/2" MINIMUM FROM THE FLOOR AND NOT MORE THAN 1/3 OF THE SKIDDED UNIT HEIGHT.
B	LOCATE BETWEEN A AND C.
C	FROM THE TOP OF THE SKIDDED UNIT TO NOT LOWER THAN 1/2 OF THE SKIDDED UNIT HEIGHT.

*SEE GENERAL NOTE "R" ON PAGE 2.

SPECIAL NOTES

(SPECIAL NOTES CONTINUED)

1. A 40'-0" LONG TRAILER IS SHOWN LOADED WITH TWENTY (20) SKIDDED UNITS. SHORTER TRAILERS MAY BE USED. THE NUMBER OF SKIDDED UNITS WHICH CAN ACTUALLY BE LOADED IN A TRAILER IS DEPENDENT UPON THE WIDTH, HEIGHT, LENGTH, AND WEIGHT OF THE UNITS, AND UPON THE DIMENSIONS OF THE TRAILER BEING USED. THE LADING UNIT SHOWN IS TYPICAL AND REPRESENTS ALL OTHER SIMILAR UNITS (SKIDDED UNIT ITEM 6 ON PAGE 18 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED).
2. SEE METHOD P THROUGH W ON PAGES 22 THROUGH 24 FOR OTHER TYPICAL METHODS FOR THE LOADING OF SKIDDED UNITS.
3. A "CHIMNEY PATTERN" LOADING PROCEDURE IS DEPICTED. THIS PROCEDURE IS BEST SUITED FOR SKIDDED UNITS WHICH ARE GREATER THAN 45" BUT LESS THAN 51" IN WIDTH AND WHICH ARE AT LEAST 33" BUT LESS THAN 45" IN LENGTH. UNITS OF OTHER DIMENSIONS MAY BE LOADED; HOWEVER, THE TOTAL OF THE LENGTH AND WIDTH OF THE UNIT MUST BE LESS THAN THE INSIDE WIDTH OF THE TRAILER, BUT NOT MORE THAN 6" LESS. SKIDDED UNITS WHICH DO NOT ADAPT THEMSELVES TO "CHIMNEY PATTERN" LOADING SHOULD BE LOADED IN ACCORDANCE WITH ONE OF THE PROCEDURES SHOWN ON PAGES 14 THRU 19.
4. **CAUTION:** THE LOADING OF SKIDDED UNITS IN A "CHIMNEY PATTERN" IS LIMITED TO ONE (1) LAYER. ALSO, THE "CHIMNEY PATTERN" LOADING PROCEDURE IS NOT APPLICABLE FOR THE LOADING OF THE TYPE I SKID BASE (SEE THE DETAIL ON PAGE 3).

5. A TYPICAL SKIDDED UNIT WHICH IS 42-9/16" LONG BY 44" WIDE BY 45-1/4" HIGH IS SHOWN IN THE "ISOMETRIC VIEW". THESE PROCEDURES ARE ALSO APPLICABLE TO UNITS OF OTHER HEIGHTS. THE NUMBER OF CROSS MEMBERS REQUIRED FOR RETAINING SKIDDED UNITS OF VARIOUS HEIGHTS, AND THE MAXIMUM WEIGHT PER SKIDDED UNIT, ARE AS FOLLOWS:

UNIT HEIGHT	NO. OF CROSS MEMBERS	WEIGHT PER UNIT
47-1/2" OR HIGHER	4 SINGLES	UP TO 3,000 LBS
37-1/2" TO 47-1/2"	3 SINGLES	UP TO 2,250 LBS
37-1/2" TO 47-1/2"	3 DOUBLES	UP TO 3,750 LBS
27-1/2" TO 37-1/2"	2 SINGLES	UP TO 1,500 LBS
27-1/2" TO 37-1/2"	2 DOUBLES	UP TO 2,500 LBS
15-1/2" TO 27-1/2"	1 SINGLE	UP TO 750 LBS
15-1/2" TO 27-1/2"	1 DOUBLE	UP TO 1,250 LBS

6. A COMBINATION OF LOADING PROCEDURES MAY BE USED TO ATTAIN THE QUANTITY TO BE SHIPPED AND/OR FOR THE BEST UTILIZATION OF TRAILER SPACE; I. E. TWO (2) OR THREE (3) SKIDDED UNITS MAY BE POSITIONED IN A BAY AND BLOCKED AND BRACED AS SHOWN ON PAGES 14 THRU 19 IN CONJUNCTION WITH MULTIPLES OF FOUR (4) LOADED IN A "CHIMNEY PATTERN".

(CONTINUED AT RIGHT)

METHOD SELECTOR CHART FOR SKIDDED UNITS				
SKIDDED UNIT HEIGHT	FOR FULL TWO-LAYER OR PARTIAL SECOND-LAYER LOADS *		FOR ONE-LAYER LOADS *	
	2 UNITS WIDE	3 UNITS WIDE	2 UNITS WIDE	3 UNITS WIDE
15-1/2" MAX	X		4000 LBS MAX, USE "METHOD U"	2000 LBS MAX, USE "METHOD U"
15-1/2" TO 27-1/2"	1500 LBS MAX, USE "METHOD P"	1000 LBS MAX, USE "METHOD P"	X	
27-1/2" TO 40"	1250 LBS OR 1666 LBS MAX, USE "METHOD S"	833 LBS OR 1111 LBS MAX, USE "METHOD S"	X	
	1500 LBS OR 3000 LBS MAX, USE "METHOD Q"	1000 LBS OR 2000 LBS MAX, USE "METHOD Q"	X	
40" TO 51"	1950 LBS MAX, USE "METHOD V" OR "METHOD W"	1250 LBS MAX, USE "METHOD V" OR "METHOD W"	X	
47-1/2" TO 56"	X		2466 LBS OR 2600 LBS MAX, USE "METHOD T"	1455 LBS OR 1735 LBS MAX, USE "METHOD T"
	X		3000 LBS MAX, USE "METHOD R"	2000 LBS MAX, USE "METHOD R"

* THE METHODS DESIGNATED WITHIN THIS CHART FOR USE WITH TWO-LAYER LOADS MAY BE APPLIED FOR LOADS OF ONE LAYER BY USING ONLY THE LOWER ONE OR TWO CROSS MEMBER INSTALLATIONS, AS APPLICABLE.

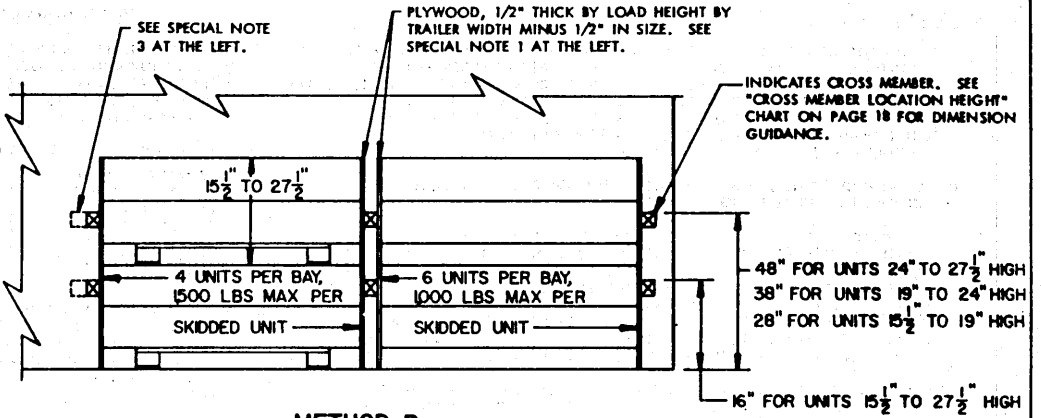
LOAD AS SHOWN

ITEM QUANTITY WEIGHT (APPROX)
 SKIDDED UNIT ----- 20 ----- 41,900 LBS

TYPICAL 20-UNIT LOAD (SKIDDED)

SPECIAL NOTES:

1. PLYWOOD IS REQUIRED WHEN BOX ENDS FACE TRAILER ENDS UNLESS THE CROSS MEMBER CONTACTS EVERY BOX ON THE UNIT.
2. THE SKIDDED UNITS SHOWN ARE POSITIONED WITH THE UNIT WIDTH PARALLEL TO THE TRAILER SIDEWALL; HOWEVER, UNITS MAY BE POSITIONED WITH THE UNIT LENGTH PARALLEL TO THE TRAILER SIDEWALL, IF DESIRED. THE PLYWOOD SHOWN BETWEEN THE UNITS AND THE INSTALLED CROSS MEMBERS IS NOT REQUIRED WHEN THE UNITS ARE TURNED.
3. IF A SKIDDED UNIT MEASURES BETWEEN 15-1/2" AND 27-1/2" AND WEIGHS MORE THAN 1,500 POUNDS OR 1,000 POUNDS FOR A 2-WIDE OR 3-WIDE LOADING, RESPECTIVELY, IT WILL BE NECESSARY TO INSTALL AN EXTRA CROSS MEMBER AT EACH LOCATION. SEE "DETAIL E" ON PAGE 26.



METHOD P

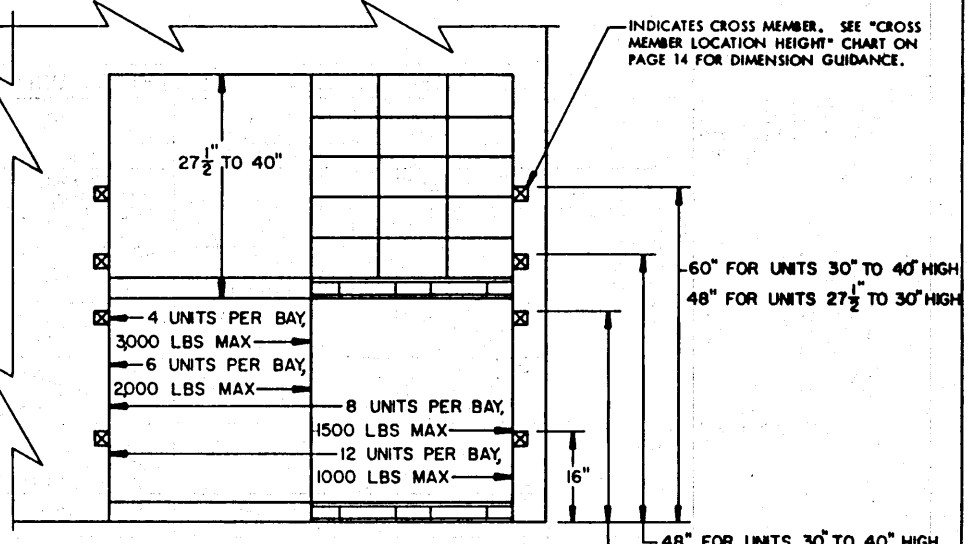
SKIDDED UNIT ITEM 46 ON PAGE 22 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED (4 SKIDDED UNITS PER BAY — TWO WIDE AND TWO HIGH.).

METHOD P MAY BE USED IF:

- A. THE SKIDDED UNIT IS LESS THAN 27-1/2" HIGH (THIS ONLY ALLOWS FOR ONE CROSS MEMBER AGAINST THE BOTTOM SKIDDED UNIT).
- B. THE SKIDDED UNIT WEIGHT IS 1,500 POUNDS OR LESS FOR TWO UNITS WIDE, OR 1,000 POUNDS OR LESS FOR THREE UNITS WIDE.

SPECIAL NOTES:

1. IT WOULD BE POSSIBLE TO POSITION THREE (3) CROSS MEMBERS AGAINST THE FIRST LAYER; HOWEVER, ONLY TWO CROSS MEMBER LOCATIONS WOULD BE AVAILABLE TO RETAIN THE TOP LAYER.
2. SEE "METHOD 5" ON PAGE 23 FOR AN ALTERNATIVE METHOD.
3. THE SKIDDED UNITS SHOWN ARE POSITIONED WITH THE UNIT LENGTH PARALLEL TO THE TRAILER SIDEWALL; HOWEVER, UNITS MAY BE POSITIONED WITH THE UNIT WIDTH PARALLEL TO THE TRAILER SIDEWALL, IF DESIRED. NOTE THAT PLYWOOD MUST BE POSITIONED BETWEEN THESE TURNED UNITS AND THE INSTALLED CROSS MEMBERS. SEE "METHOD P" ABOVE FOR GUIDANCE.



METHOD Q

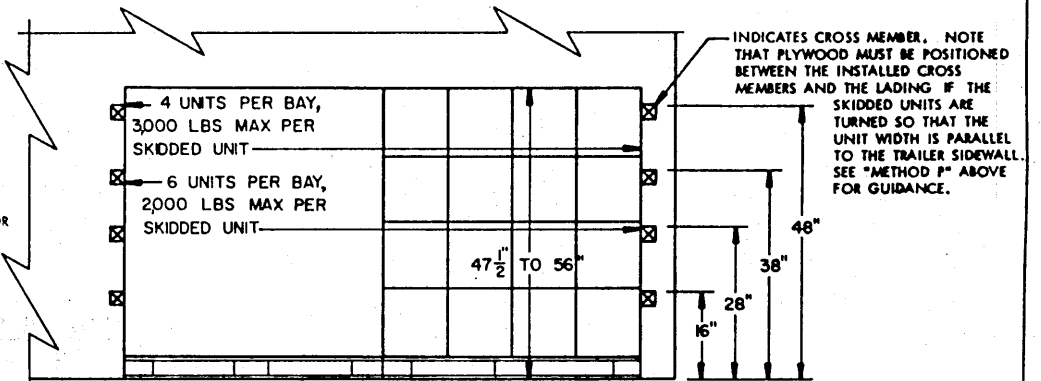
SKIDDED UNIT ITEM 40 ON PAGE 14 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED (8 SKIDDED UNITS PER BAY — TWO WIDE, TWO LONG AND TWO HIGH).

METHOD Q MAY BE USED IF:

- A. THE SKIDDED UNIT IS 40" HIGH OR LESS (SEE SPECIAL NOTE 1).
- B. THE SKIDDED UNIT WEIGHT IS 1,500 POUNDS OR 1,000 POUNDS MAX FOR TWO UNITS OR THREE UNITS WIDE, RESPECTIVELY, IN A 2-LONG BAY, OR THE UNIT WEIGHT IS 3,000 POUNDS OR 2,000 POUNDS MAX FOR TWO UNITS OR THREE UNITS WIDE, RESPECTIVELY, IN A 1-LONG CONFIGURATION.

METHOD R MAY BE USED IF:

- A. THE SKIDDED UNIT IS 47-1/2" HIGH OR HIGHER (RESTRICTED TO ONE-HIGH LOAD).
- B. THE SKIDDED UNIT WEIGHT IS 3,000 POUNDS OR LESS FOR TWO UNITS WIDE, OR 2,000 POUNDS OR LESS FOR THREE UNITS WIDE.

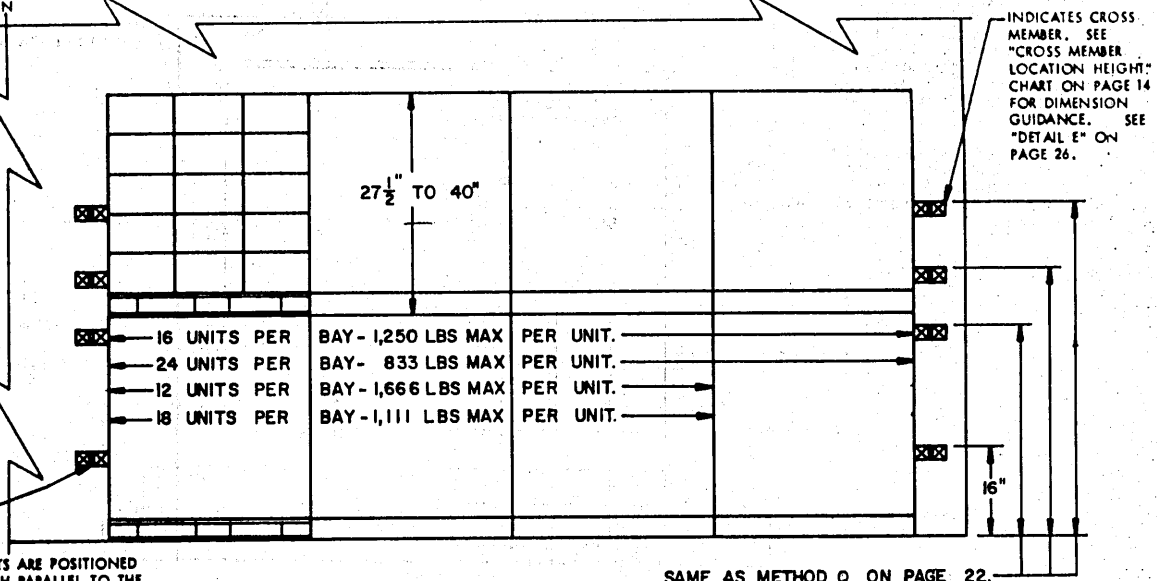


METHOD R

SKIDDED UNIT ITEM 10 ON PAGE 14 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED (2 SKIDDED UNITS PER BAY — TWO WIDE, ONE HIGH).

SPECIAL NOTES

1. SEE "METHOD B" ON PAGE 22 FOR AN ALTERNATIVE METHOD.



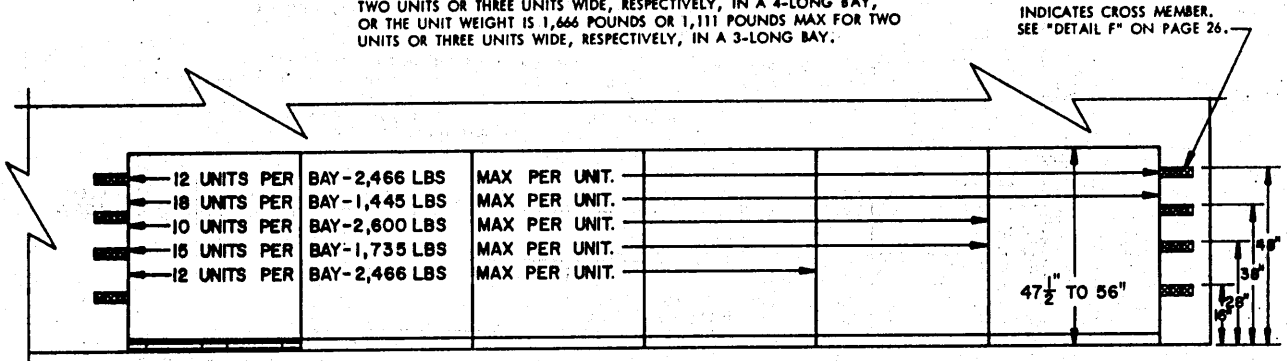
IF THE SKIDDED UNITS ARE POSITIONED WITH THE UNIT WIDTH PARALLEL TO THE TRAILER SIDEWALL, PLYWOOD MUST BE POSITIONED BETWEEN THE INSTALLED CROSS MEMBERS AND THE LADING. SEE "METHOD P" ON PAGE 22 FOR GUIDANCE.

METHOD S

SAME AS METHOD Q ON PAGE 22.

SKIDDED UNIT ITEM 40 ON PAGE 14 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED (16 SKIDDED UNITS PER BAY - TWO WIDE, FOUR LONG AND TWO HIGH).

- METHOD S MAY BE USED IF:
- A. THE SKIDDED UNIT IS FROM 27-1/2" TO 40" IN HEIGHT.
 - B. THE SKIDDED UNIT WEIGHT IS 1,250 POUNDS OR 833 POUNDS MAX FOR TWO UNITS OR THREE UNITS WIDE, RESPECTIVELY, IN A 4-LONG BAY, OR THE UNIT WEIGHT IS 1,666 POUNDS OR 1,111 POUNDS MAX FOR TWO UNITS OR THREE UNITS WIDE, RESPECTIVELY, IN A 3-LONG BAY.

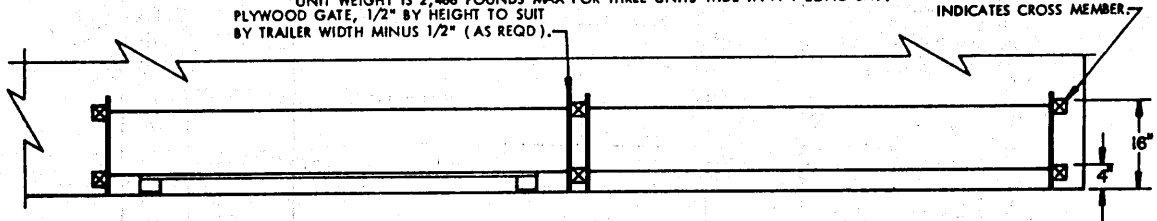


METHOD T

SKIDDED UNIT ITEM 10 ON PAGE 14 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED (12 SKIDDED UNITS PER BAY - TWO WIDE, SIX LONG).

- METHOD T MAY BE USED IF:
- A. THE SKIDDED UNIT IS 47-1/2" HIGH OR MORE.
 - B. THE SKIDDED UNIT WEIGHT IS 2,466 OR 1,445 POUNDS MAX FOR TWO OR THREE UNITS WIDE, RESPECTIVELY, IN A 6-LONG BAY, OR THE UNIT WEIGHT IS 2,600 OR 1,735 POUNDS MAX FOR TWO OR THREE UNITS WIDE, RESPECTIVELY, IN A 5-LONG BAY, OR THE UNIT WEIGHT IS 2,466 POUNDS MAX FOR THREE UNITS WIDE IN A 4-LONG BAY.

PLYWOOD GATE, 1/2" BY HEIGHT TO SUIT BY TRAILER WIDTH MINUS 1/2" (AS REQD).



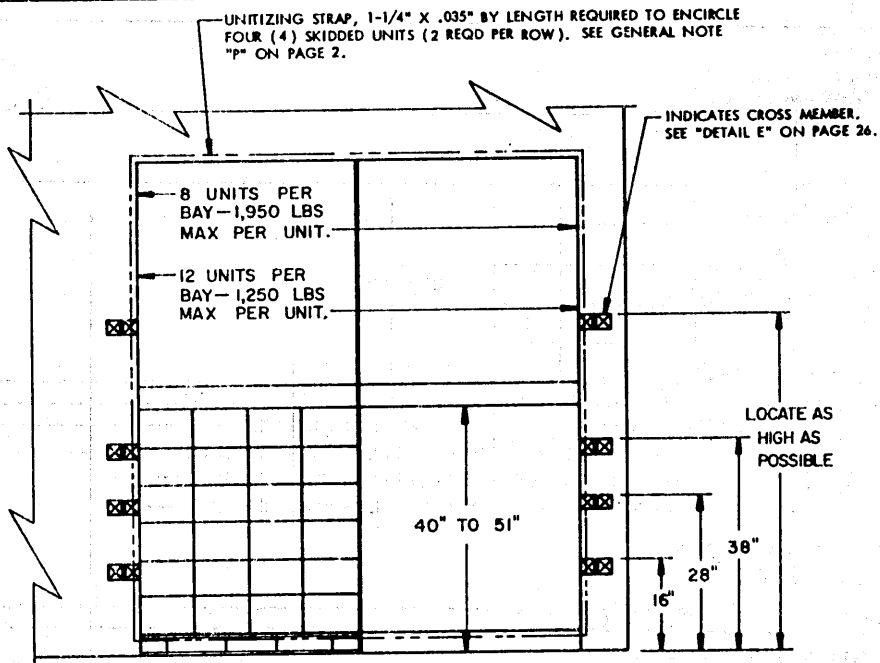
METHOD U

SKIDDED UNIT ITEM 27 ON PAGE 34 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED (2 SKIDDED UNITS PER BAY - TWO WIDE, ONE HIGH).

- METHOD U MAY BE USED IF:
- A. THE SKIDDED UNIT IS 15" HIGH OR LESS (NOT SUFFICIENT FOR THE TOP CROSS MEMBER TO CONTACT THE UNIT BY AT LEAST 1/2 OF ITS SURFACE).

SPECIAL NOTES:

1. SKIDDED UNITS WHICH ARE OVER 40" HIGH AND STACKED MUST BE BAYED OFF IN UNITS OF EIGHT AND RETAINED BY DOUBLED CROSS MEMBERS. THE LOAD IS RETAINED BY THE CROSS MEMBERS AGAINST THE BOTTOM SKIDDED UNIT WHILE THE CROSS MEMBER AGAINST THE TOP SKIDDED UNIT PREVENTS TIPPING.
2. IF THE SKIDDED UNIT WEIGHT IS MORE THAN 1,950 POUNDS FOR TWO UNITS WIDE OR 1,250 POUNDS FOR THREE UNITS WIDE, THE CROSS MEMBERS MUST BE TRIPLED.



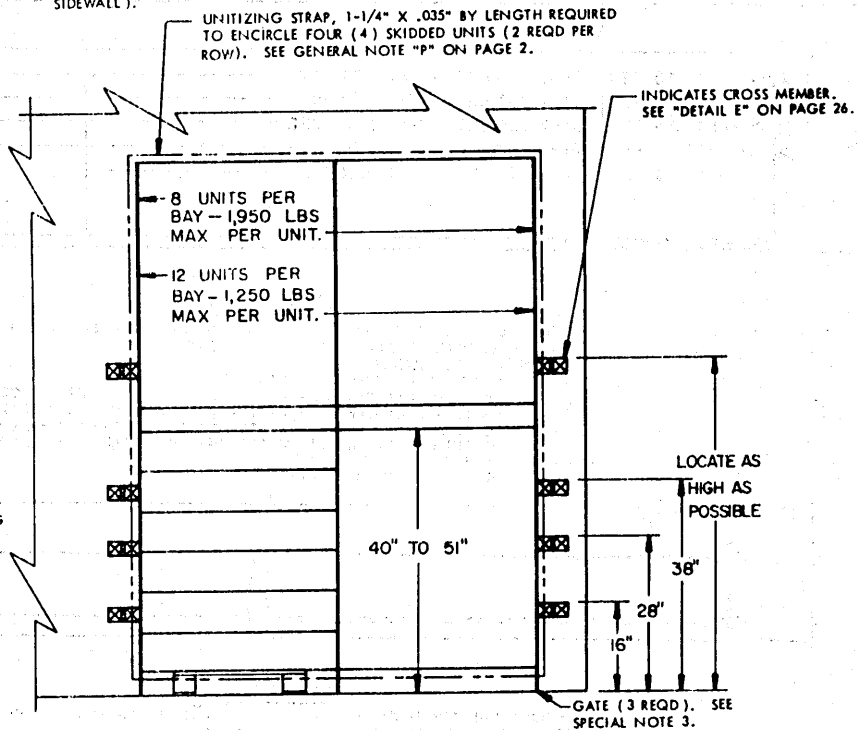
METHOD V

SKIDDED UNIT ITEM 2 ON PAGE 14 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED (8 SKIDDED UNITS PER BAY — TWO WIDE, TWO LONG AND TWO HIGH). METHOD V MAY BE USED IF:

- A. THE SKIDDED UNIT IS 40" HIGH OR MORE (SEE SPECIAL NOTE 1).
- B. THE SKIDDED UNIT WEIGHT IS 1,950 POUNDS OR LESS FOR TWO UNITS WIDE, OR 1,250 POUNDS OR LESS FOR THREE UNITS WIDE.
- C. THE SKIDDED UNIT IS LOADED WITH THE LENGTH OF THE UNIT PARALLEL TO THE TRAILER SIDEWALL (USE "METHOD W" IF UNIT LENGTH IS PARALLEL TO THE TRAILER SIDEWALL).

SPECIAL NOTES:

1. SKIDDED UNITS WHICH ARE OVER 40" HIGH AND STACKED MUST BE BAYED OFF IN UNITS OF EIGHT AND RETAINED BY DOUBLED CROSS MEMBERS. THE LOAD IS RETAINED BY THE CROSS MEMBERS AGAINST THE BOTTOM SKIDDED UNIT WHILE THE CROSS MEMBER AGAINST THE TOP SKIDDED UNIT PREVENTS TIPPING.
2. IF THE SKIDDED UNIT WEIGHT IS MORE THAN 1,950 POUNDS FOR TWO UNITS WIDE OR 1,250 POUNDS FOR THREE UNITS WIDE, THE CROSS MEMBERS MUST BE TRIPLED.
1. PLYWOOD GATES, 1/2" BY LOAD HEIGHT BY TRAILER WIDTH MINUS 1/2" ARE REQUIRED TO RETAIN THE BOXES WHICH COULD SLIDE OUT WHEN SKIDDED UNIT IS LOADED WITH BOX ENDS TOWARD THE TRAILER ENDS. THE BOTTOM EDGE OF THE PLYWOOD SHEET MUST BE NOTCHED 5-1/2" DEEP BY APPROXIMATELY 4" WIDE TO PROVIDE CLEARANCE FOR THE UNITIZING STRAPS.

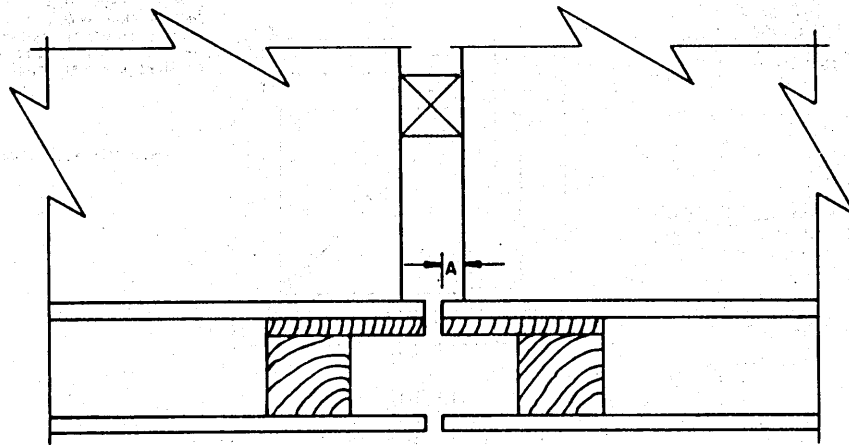


METHOD W

SKIDDED UNIT ITEM 48 ON PAGE 14 OF DRAWING 19-48-4020-1-2-5-11PA1001 REV 2 IS DEPICTED (8 SKIDDED UNITS PER BAY — TWO WIDE, TWO LONG AND TWO HIGH). METHOD W MAY BE USED IF:

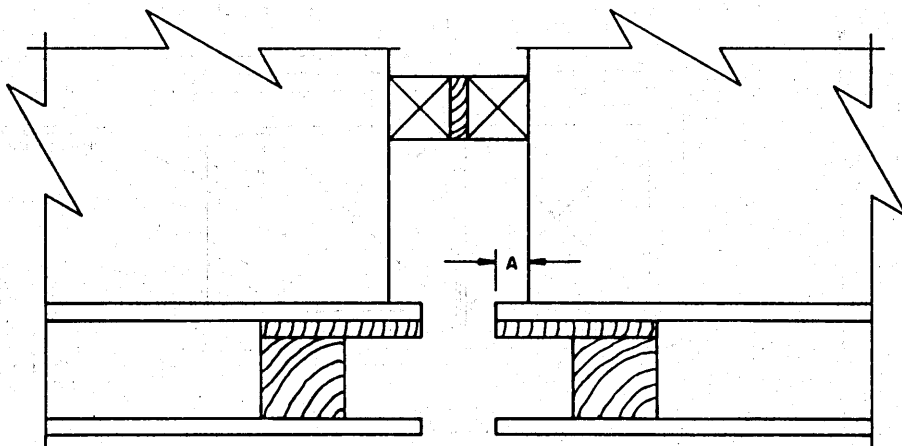
- A. THE SKIDDED UNIT IS 40" HIGH OR MORE (SEE SPECIAL NOTE 1).
- B. THE SKIDDED UNIT WEIGHT IS 1,950 POUNDS OR LESS FOR TWO UNITS WIDE, OR 1,250 POUNDS OR LESS FOR THREE UNITS WIDE.
- C. THE SKIDDED UNIT IS LOADED WITH THE WIDTH OF THE UNIT PARALLEL TO THE TRAILER SIDEWALL (USE "METHOD V" IF UNIT LENGTH IS PARALLEL TO THE WALL).

TYPICAL LOADING METHODS FOR SKIDDED UNITS



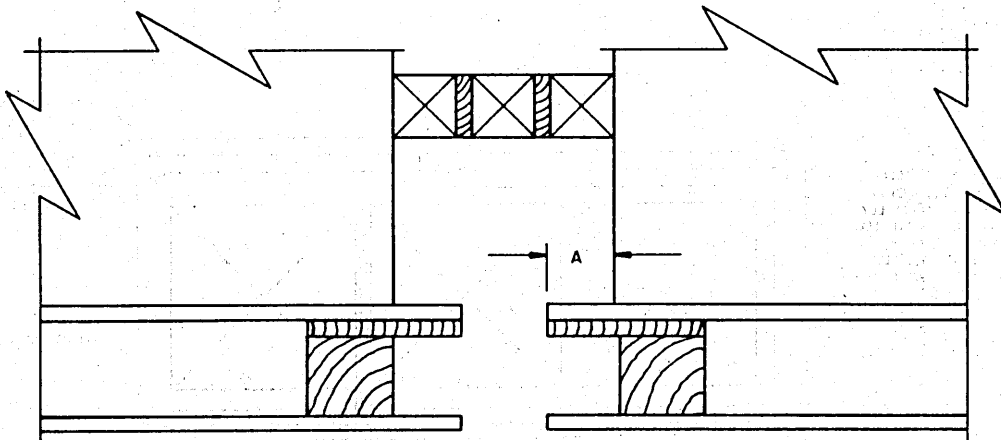
DETAIL A

IF "DIMENSION A" IS 1-3/8" OR LESS, ONE (1) CROSS MEMBER WILL CONTACT THE PALLETIZED UNITS. IF "DIMENSION A" IS MORE THAN 1-3/8" BUT LESS THAN 1-3/4", REFER TO "DETAIL D" ON PAGE 26.



DETAIL B

IF "DIMENSION A" IS GREATER THAN 1-3/8" BUT LESS THAN 2-7/8", TWO (2) CROSS MEMBERS ARE REQUIRED TO CONTACT THE PALLETIZED UNITS. SEE "DETAIL E" ON PAGE 26 IF "DIMENSION A" IS MORE THAN 2-7/8" BUT LESS THAN 3-1/4".



DETAIL C

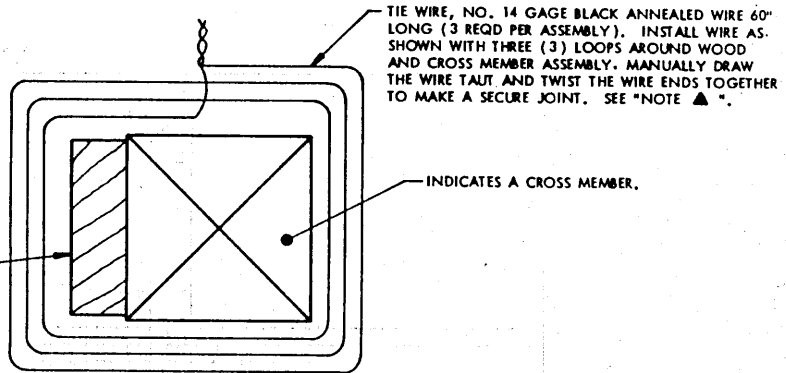
IF "DIMENSION A" IS GREATER THAN 2-7/8", THREE (3) CROSS MEMBERS ARE REQUIRED TO CONTACT THE PALLETIZED UNITS. SEE "DETAIL F" ON PAGE 26.

DETAILS

NOTE ▲ :

IF 14 GAGE BLACK ANNEALED WIRE IS NOT AVAILABLE, TWO (2) WRAPS OF NO. 8 GAGE BLACK ANNEALED WIRE OR ONE (1) LOOP OF 3/8" X .020", OR HEAVIER, STEEL STRAPPING MAY BE USED AT EACH LOCATION IN LIEU OF THE 14 GAGE WIRE.

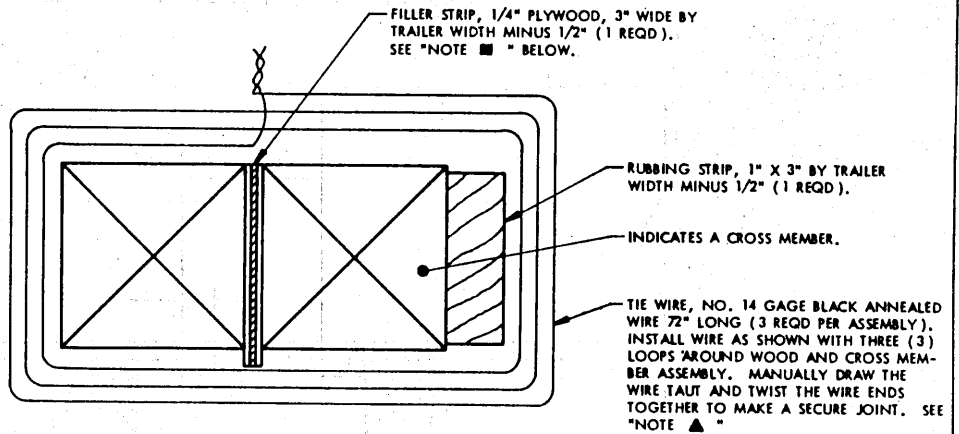
RUBBING STRIP, 1" X 3" BY TRAILER WIDTH MINUS 1/2" (1 REQD).



DETAIL D

THIS DETAIL SHOWS A METHOD WHICH WILL PERMIT THE USE OF ONE CROSS MEMBER BETWEEN LONGITUDINALLY ADJACENT STACKS OF PALLETS WHEN THE LADING ON THE PALLET IS SET-IN MORE THAN 1-3/8" BUT LESS THAN 1-3/4".

FILLER STRIP, 1/4" PLYWOOD, 3" WIDE BY TRAILER WIDTH MINUS 1/2" (1 REQD). SEE "NOTE ■" BELOW.

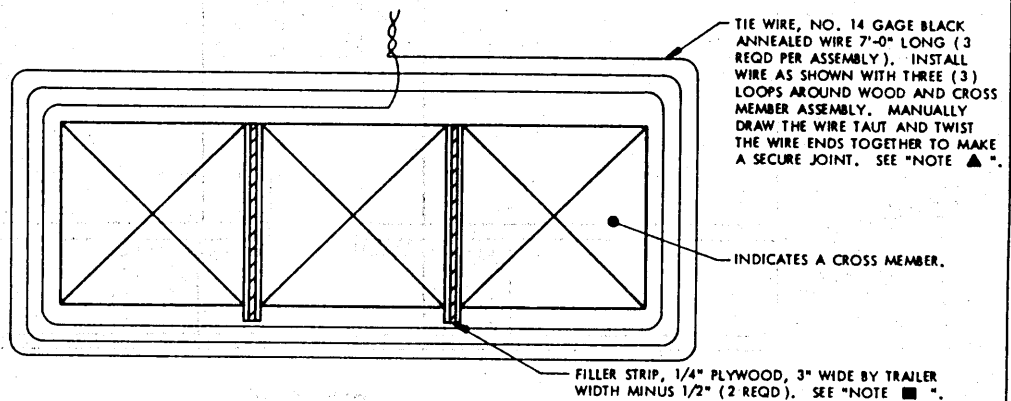


DETAIL E

THIS DETAIL SHOWS THE INSTALLATION OF A FILLER STRIP BETWEEN CROSS MEMBERS WHEN THE MEMBERS ARE USED BACK-TO-BACK AS WELL AS A METHOD WHICH WILL PERMIT THE USE OF ONLY TWO CROSS MEMBERS BETWEEN LONGITUDINALLY ADJACENT PALLET STACKS WHEN THE LADING ON THE PALLET IS SET-IN MORE THAN 2-7/8" BUT LESS THAN 3-1/4". IF THE LADING IS SET-IN FROM 3-1/4" TO 3-5/8", A RUBBING STRIP MAY BE APPLIED TO BOTH SIDES OF THE CROSS MEMBER ASSEMBLY.

NOTE ■ :

A 1/4" THICK FILLER STRIP HAS BEEN SPECIFIED. HOWEVER, IF THE VOID BETWEEN A PAIR OF LONGITUDINALLY ADJACENT CROSS MEMBERS IS GREATER THAN 1/4", FILLER MATERIAL OF A THICKNESS WHICH WILL COMPLETELY OCCUPY THE VOID SPACE BETWEEN THE TWO MEMBERS MUST BE USED.



DETAIL F

THIS DETAIL SHOWS THE INSTALLATION OF FILLER STRIPS TO FILL VOID BETWEEN CROSS MEMBERS WHEN THREE MEMBERS ARE USED BACK-TO-BACK.