

APPROVED BY
BUREAU OF EXPLOSIVES

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LOADING AND BRACING WITH WOODEN DUNNAGE IN SIDE OPENING ISO CONTAINERS OF BOXED AMMUNITION AND COMPONENTS ON 4-WAY ENTRY PALLETS AND SKID BASES

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- LOADING AND BRACING SPECIFICATIONS SET FORTH WITHIN THIS DRAWING ARE APPLICABLE TO LOADS THAT ARE TO BE SHIPPED BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC) RAIL CARRIER SERVICE. THESE SPECIFICATIONS MAY ALSO BE USED FOR LOADS THAT ARE TO BE MOVED BY MOTOR OR WATER CARRIERS.

U.S. ARMY MATERIEL COMMAND DRAWING			
APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND <i>J. A. Fleckman</i>	DRAFTSMAN	TECHNICIAN	ENGINEER L. FIEFFER
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APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND <i>John L. Byrd Jr</i>	NOVEMBER 1993		
U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL	CLASS	DIVISION	DRAWING
	19	48	4267
			FILE 15PA1009

DO NOT SCALE

GENERAL NOTES

(GENERAL NOTES CONTINUED)

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE OUTLOADING PROCEDURES SPECIFIED IN THIS DRAWING ARE APPLICABLE TO LOADS OF BOXED AMMUNITION AND COMPONENTS ON 4-WAY ENTRY PALLETS AND SKIDDED BASES. SUBSEQUENT REFERENCE TO A PALLET UNIT OR A SKIDDED UNIT HEREIN MEANS THE UNIT WITH AMMUNITION ITEMS. SEE PAGES 3 THRU 6 AND PAGE 65 FOR "TYPICAL UNIT DETAILS". CAUTION: REGARDLESS OF THE QUANTITY OF UNITS TO BE SHIPPED, THE "MAXIMUM GROSS WEIGHT" OF THE CONTAINER MUST NOT BE EXCEEDED.
- C. THE LOADS AS SHOWN ARE BASED ON 6,050 POUND 20' LONG BY 8' WIDE BY 8'-6" HIGH SIDE OPENING ISO CONTAINER WITH INSIDE DIMENSIONS OF 19'-4" LONG BY 89" WIDE BY 88" HIGH AND A MAXIMUM GROSS WEIGHT OF 52,910 POUNDS. THE LOAD IS DESIGNED FOR TRAILER/CONTAINER-ON-FLATCAR (T/COFC) SHIPMENT, HOWEVER, THE LOAD AS DESIGNED CAN ALSO BE MOVED BY MOTOR OR WATER CARRIERS. NOTICE: OTHER CONTAINERS OF THE SAME DESIGN CONFIGURATION CAN ALSO BE USED.
- D. WHEN LOADING THE UNITS, THEY ARE TO BE POSITIONED SO AS TO ACHIEVE A TIGHT LOAD (TIGHT AGAINST THE DUNNAGE ASSEMBLIES). THE UNBLOCKED SPACE ACROSS THE WIDTH OF A LOAD BAY IS NOT TO EXCEED 1-1/2". EXCESSIVE SLACK CAN BE ELIMINATED FROM A LOAD BY LAMINATING ADDITIONAL PIECES OF APPROPRIATE THICKNESS TO THE SIDE FILL OR CENTER FILL ASSEMBLIES. NAIL EACH ADDITIONAL PIECE TO THE VERTICAL PIECE W/1 APPROPRIATELY SIZED NAIL EVERY 12". ADDITIONALLY, THE THICKNESS AND QUANTITY OF THE DUNNAGE LUMBER USED MAY BE ADJUSTED AS REQUIRED TO FACILITATE VARIANCE IN THE SIZE OF THE LADING UNIT.
- E. DUNNAGE LUMBER SPECIFIED IS OF NOMINAL SIZE. FOR EXAMPLE, 1" X 6" MATERIAL IS ACTUALLY 3/4" THICK BY 5-1/2" WIDE AND 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY 5-1/2" WIDE. THOSE MEMBERS SPECIFICALLY IDENTIFIED AS "STRUTS" WITHIN THE KEY NUMBERS OF A DEPICTED LOAD ARE SPECIFIED TO BE 4" X 4" MATERIAL, IT IS PERMISSIBLE TO USE TWO LAMINATED PIECES OF 2" X 4" MATERIAL IN LIEU OF EACH 4" X 4" STRUT. DOUBLED 2" X 4" STRUTS WILL BE LAMINATED W/1-10d NAIL EVERY 6".
- F. A STAGGERED NAILING PATTERN WILL BE USED WHENEVER POSSIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE ASSEMBLIES 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.
- G. IN SOME CONTAINERS THERE IS A SLOT AT THE CORNERS OF THE ENDWALLS. A PIECE OF DUNNAGE MATERIAL MUST BE LAMINATED TO THE BUFFER PIECES OF THE END BLOCKING ASSEMBLY TO PROVIDE A FLAT SURFACE FOR THE 1" X 4" OR 2" X 4" BUFFER PIECES. A PIECE OF 2" X 4", 2" X 3", OR A SPECIAL WIDTH PIECE CUT-TO-FIT CAN BE USED. THIS FILL PIECE WILL BE NAILED WITH ONE APPROPRIATELY SIZED NAIL EVERY 12". THIS PIECE IS NOT REQUIRED WHEN THE ENDWALL OF THE CONTAINER IS SMOOTH AND FLAT.
- H. CAUTION: DO NOT NAIL DUNNAGE MATERIAL TO THE CONTAINER WALLS OR FLOOR. ALL NAILING WILL BE WITHIN THE DUNNAGE.
- J. PORTIONS OF THE CONTAINER DEPICTED WITHIN THIS DRAWING, SUCH AS THE SIDE DOORS, HAVE NOT BEEN SHOWN IN THE LOAD VIEW FOR CLARITY PURPOSES.
- K. TO MAKE LOADING EASIER, TO HELP ACHIEVE A TIGHT LOAD ACROSS A CONTAINER, AND TO PREVENT UNACCEPTABLE DAMAGE TO LADING UNITS WHEN LOADING A CONTAINER, A SLIP-SHEET CAN BE USED EFFECTIVELY AS A "SHOEHORN" TYPE DEVICE. THE SLIP-SHEET WILL PROVIDE A SMOOTH SURFACE THAT WILL PREVENT UNIT STRAPS AND/OR BOXES AND/OR BOX CLEATS FROM INTERLOCKING OR CATCHING ON OTHER PROJECTIONS WHEN LATERALLY ADJACENT LADING UNITS ARE BEING LOADED. A SLIP-SHEET WILL BE USED AFTER ONE-HALF OF A STACK IS LOADED WITH ONE OF ITS SIDES IN TIGHT CONTACT AT ONE SIDE OF THE CONTAINER. THE SLIP-SHEET IS TO BE PLACED AGAINST THE OTHER SIDE OF THE HALFSTACK BEFORE THE HALF OF THE STACK IS LOADED. AFTER A STACK IS COMPLETED, THE SLIP-SHEET IS TO BE REMOVED FOR SUBSEQUENT USE WITH THE NEXT STACK. A SLIP-SHEET OF SUITABLE SIZE CAN BE MADE FROM A SHEET OF 1/8" TEMPERED HARDBOARD (MASONITE) OR FROM A SHEET OF ANY OTHER MATERIAL THAT WILL SATISFY THE REQUIREMENT.

(CONTINUED AT RIGHT)

- L. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4 MM AND ONE POUND EQUALS 0.454 KG.
- M. REQUIREMENTS CITED WITHIN THE BUREAU OF EXPLOSIVES PAMPHLET 6C APPLY WHEN THE SHIPMENT MOVES BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC). SPECIAL T/COFC NOTES FOLLOW:
 - 1. A LOADED CONTAINER MUST BE ON A CHASSIS EQUIPPED WITH TWO BOGIE ASSEMBLIES WHEN BEING MOVED IN TOFC SERVICE.
 - 2. THE LOAD LIMIT OF A T/COFC RAILCAR MUST NOT BE EXCEEDED, NOR WILL A CAR BE LOADED SO THAT THE TRUCK UNDER ONE END OF THE CAR CARRIES MORE THAN ONE-HALF OF THE LOAD LIMIT FOR THAT CAR.
- N. DURING INTRASTATE AND/OR INTERSTATE MOVES BY MOTOR CARRIER, A PROPER CHASSIS OR MODIFIED FLATBED TRAILER MUST BE USED TO PRECLUDE VIOLATION OF ONE OR MORE "WEIGHT LAWS" APPLICABLE TO THE STATE OR STATES INVOLVED.
- O. THE QUANTITY OF LADING UNITS SHOWN IN THE LOADS MAY BE REDUCED FOR SHIPMENT, IF DESIRED. SEE THE "TYPICAL REDUCED LOAD" ON PAGE 72. WHEN A CONTAINER IS TO BE LOADED WITH A REDUCED QUANTITY OF LADING UNITS, THE LENGTHWISE CENTER OF GRAVITY OF THE LOAD MUST BE WITHIN 12", IN EITHER DIRECTION, OF THE MID-POINT OF THE CONTAINER.
 - 1. IF A LOAD IS REDUCED BY ONLY A SMALL AMOUNT (ONE OR TWO LADING UNITS), LADING UNITS NORMALLY MAY BE ELIMINATED FROM THE CENTER OF THE LOAD, UNLESS STRUTS ARE USED IN THE LOAD, IN WHICH CASE LADING UNITS SHOULD BE ELIMINATED AT THE ENDS OF THE LOAD (FILLER ASSEMBLIES MUST NOT BE INSTALLED IMMEDIATELY ADJACENT TO CENTER GATES AND STRUTS).
 - 2. IF A LOAD IS REDUCED BY A LARGE AMOUNT (MORE THAN TWO LADING UNITS), LADING UNITS SHOULD BE ELIMINATED AS REQUIRED AND THE TOTAL LOAD SHIFTED FORE OR AFT, AS NECESSARY, TO ACHIEVE A SYMMETRICAL WEIGHT DISTRIBUTION. THE DEPICTED PROCEDURES WILL BE FOLLOWED AS CLOSELY AS POSSIBLE, MAKING ONLY THOSE ADJUSTMENTS TO THE DUNNAGE WHICH ARE REQUIRED TO ACCOMMODATE THE NUMBER OF UNITS TO BE SHIPPED.
- P. WHERE 2" X 2" PIECES ARE SPECIFIED FOR STRUT LEDGERS, 2" X 4" MATERIAL MAY BE SUBSTITUTED, IF DESIRED.

(CONTINUED ON PAGE 3)

MATERIAL SPECIFICATIONS

- LUMBER - - - - - : SEE TM 743-200-1 (DUNNAGE LUMBER) AND FED SPEC MM-L-751.
- NAILS - - - - - : FED SPEC FF-N-105; COMMON.
- PLYWOOD - - - - - : COMMERCIAL ITEM DESCRIPTION A-A-55057, TYPE A, CONSTRUCTION AND INDUSTRIAL PLYWOOD, INTERIOR WITH EXTERIOR GLUE, GRADE C-D. IF SPECIFIED GRADE IS NOT AVAILABLE, A BETTER INTERIOR OR AN EXTERIOR GRADE MAY BE SUBSTITUTED.
- STRAPPING, STEEL - - : ASTM D3953; FLAT STRAPPING, TYPE 1, HEAVY DUTY, FINISH A, B (GRADE 2), OR C.
- SEAL, STRAP - - - - : ASTM D3953; CLASS H, FINISH A, B (GRADE 2), OR C, DOUBLE NOTCH TYPE, STYLE I, II, OR IV.
- WIRE, CARBON STEEL - : ASTM A853; ANNEALED AT FINISH, BLACK OXIDE FINISH, .0800" DIA, GRADE 1006 OR BETTER.
- FIBERBOARD - - - - - : FED SPEC PPP-F-320; TYPE SF (SOLID FIBERBOARD), CLASS DOMESTIC, ALL GRADES.

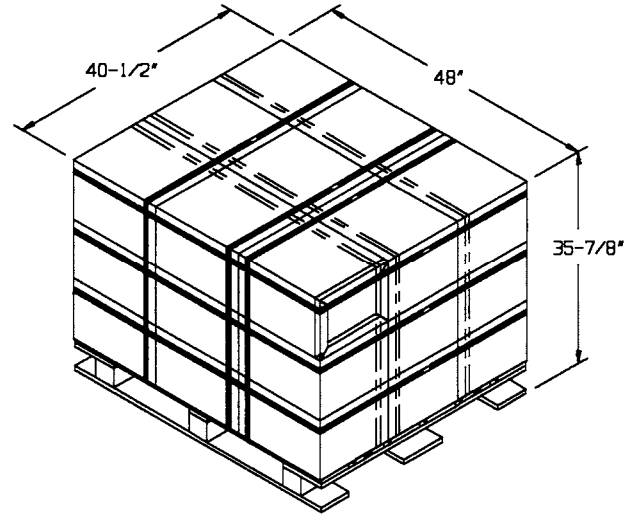
- Q. WHEN STEEL STRAPPING IS SEALED AT AN END-OVER-END LAP JOINT, A MINIMUM OF ONE SEAL WITH TWO PAIR OF NOTCHES WILL BE USED TO SEAL THE JOINT WHEN A NOTCH-TYPE SEALER IS BEING USED. A MINIMUM OF TWO SEALS, BUTTED TOGETHER WITH TWO PAIR OF CRIMPS PER SEAL WILL BE USED TO SEAL THE JOINT WHEN A CRIMP-TYPE SEALER IS BEING USED. REFER TO THE "STRAP JOINT A" AND "STRAP JOINT B" DETAILS ON PAGE 73 FOR GUIDANCE.
- R. THE BUFFER PIECE OF AN END BLOCKING ASSEMBLY MAY BE DOUBLED TO DECREASE THE AMOUNT OF FILL MATERIAL REQUIRED IN A CENTER FILL ASSEMBLY. SEE THE "END BLOCKING ASSEMBLY D" ON PAGE 22 FOR AN EXAMPLE. THE BUFFER PIECES MAY ALSO BE 1" X 4" MATERIAL INSTEAD OF 2" X 4" MATERIAL IF ADDITIONAL VOID IS NEEDED FOR CENTER BLOCKING IN A LOAD. SEE "END BLOCKING ASSEMBLY F" ON PAGE 30 FOR AN EXAMPLE.
- S. THE 4" X 4" STRUTS DEPICTED IN LOADS WITHIN THIS DRAWING ARE CAPABLE OF SUPPORTING 3,000 POUNDS EACH. FOR EXAMPLE, IF A LOAD OF EIGHT PALLET UNITS IS STRUTTED IN THE MIDDLE (FOUR PALLET UNITS ON EITHER SIDE OF THE GATES), AND EACH PALLET UNIT WEIGHS 3,000 POUNDS, FOUR STRUTS ARE REQUIRED, ONE HALF OF THE LOAD (THE FORCE TAKEN BY THE STRUTS) IS 12,000 POUNDS, DIVIDED BY 3,000 EQUATES TO FOUR STRUTS. DOUBLED 2" X 4" STRUTS WILL SUPPORT 2,500 POUNDS EACH. THE QUANTITY OF STRUTS REQUIRED IS NOT SOLELY DETERMINED BY THE WEIGHT OF THE LOAD. THE LADING UNITS MUST BE FULLY SUPPORTED AND BLOCKED ONLY AGAINST SECTIONS THAT ARE STRONG ENOUGH TO SUPPORT THE FULL LOAD, FOR EXAMPLE, DO NOT BLOCK AGAINST THE MIDDLE OF A WIREBOUND BOX.

T. MAXIMUM LOAD WEIGHT CRITERIA:

THE MAXIMUM LOAD WEIGHTS ARE CONTROLLED BY EQUIPMENT CAPABILITY FACTORS. ALTHOUGH THE HEAVIEST MAXIMUM LOADS ARE DELINEATED IN THE LOAD VIEWS, PROVISIONS ARE INCLUDED WITHIN THIS DRAWING SO THAT THE BASIC LOADS CAN BE ADJUSTED TO SATISFY A LESSER QUANTITY OF LADING UNITS. DEPENDING ON TRANSPORTATION ROUTING, IT MAY BE NECESSARY TO REDUCE THE LOAD WEIGHT TO SATISFY "WEIGHT LAWS" OF CERTAIN STATES. ALSO, IT MAY BE NECESSARY TO REDUCE THE LOAD WEIGHT TO SATISFY OTHER WEIGHT RESTRICTIONS IMPOSED ON THE INTERMODAL CONTAINER SYSTEM.

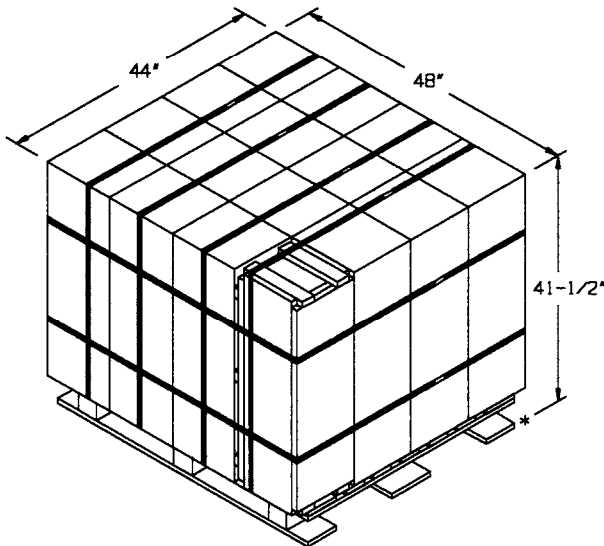
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- U. LOAD-BLOCKING STRUTS WHICH ARE 48" OR LONGER MUST BE STIFFENED BY THE APPLICATION OF HORIZONTAL AND VERTICAL STRUT BRACING AS SHOWN IN THE "STRUT BRACING DETAIL" ON PAGE 73. BRACING IS NOT REQUIRED IF THE STRUTS FOR THE LOAD BEING SHIPPED ARE SHORTER THAN 48". THE LENGTH OF THE LOAD-BLOCKING STRUTS SHOULD BE KEPT AS SHORT AS POSSIBLE (APPROX 12" MINIMUM), BUT IN THE EVENT IT IS NECESSARY TO USE STRUTS WHICH ARE 8'-0" OR MORE IN LENGTH, IT WILL BE NECESSARY TO APPLY AN ADDITIONAL SET OF HORIZONTAL AND VERTICAL STRUT BRACING PIECES. STRUT BRACING SHOULD BE APPLIED SO AS TO PROVIDE NEARLY EQUAL SPACES BETWEEN THE BRACING PIECES AND THE DUNNAGE ASSEMBLIES AND/OR BETWEEN ADJACENT STRUT BRACING PIECES. NOTE THAT HORIZONTAL STRUT BRACING PIECES FOR THE UPPER LEVEL OF STRUTS FOR ALL BUT THE UPPERMOST TIER OF A LOAD MAY BE DIFFICULT TO APPLY TO THE TOP SURFACES OF THE STRUT AS DEPICTED. STRUT BRACING WILL BE EQUALLY EFFECTIVE IF APPLIED TO THE UNDER SIDE OF THOSE STRUTS.



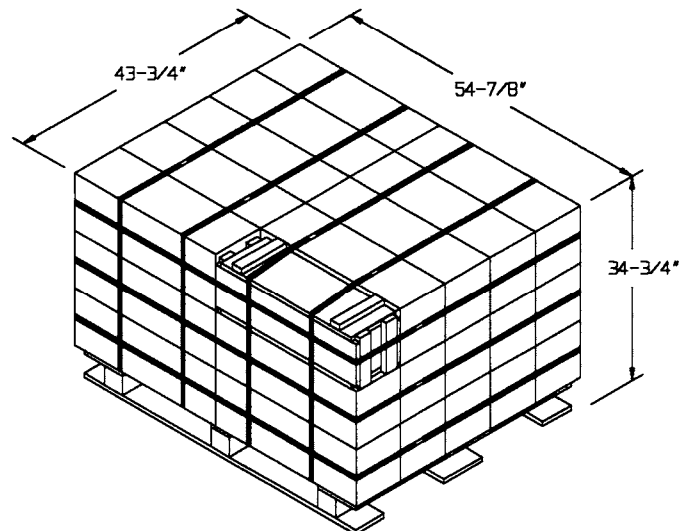
PALLET UNIT NO. 1

UNIT WEIGHT - - - - - 1,518 POUNDS (APPROX)
 CUBE - - - - - 40.4 CUBIC FEET



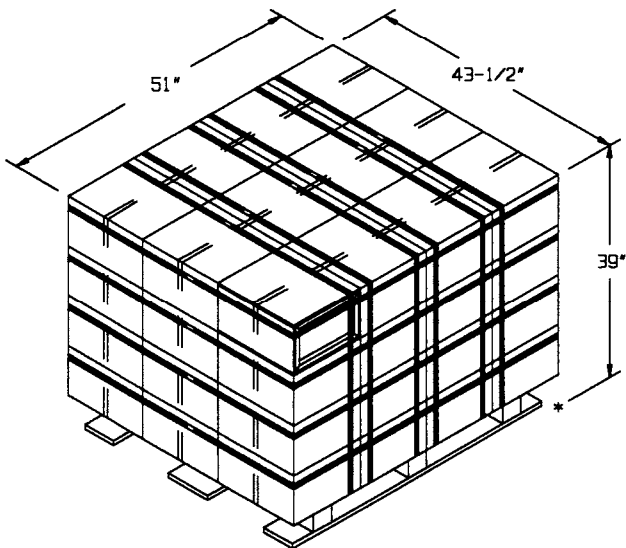
PALLET UNIT NO. 2

UNIT WEIGHT - - - - - 1,322 POUNDS (APPROX)
 CUBE - - - - - 50.7 CUBIC FEET



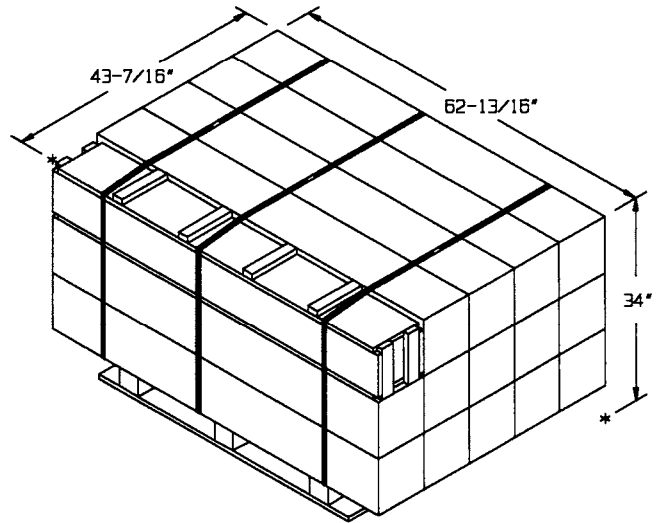
PALLET UNIT NO. 3

UNIT WEIGHT - - - - - 1,868 POUNDS (APPROX)
 CUBE - - - - - 48.3 CUBIC FEET



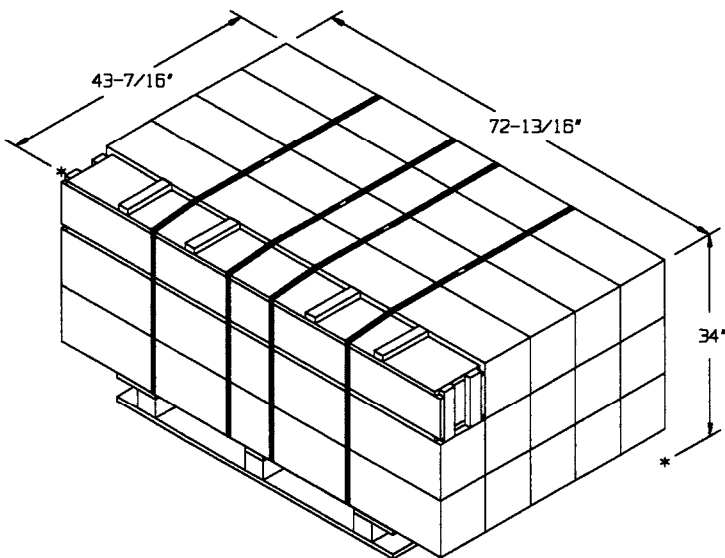
PALLET UNIT NO. 4

UNIT WEIGHT - - - - - 2,729 POUNDS (APPROX)
 CUBE - - - - - 50.1 CUBIC FEET



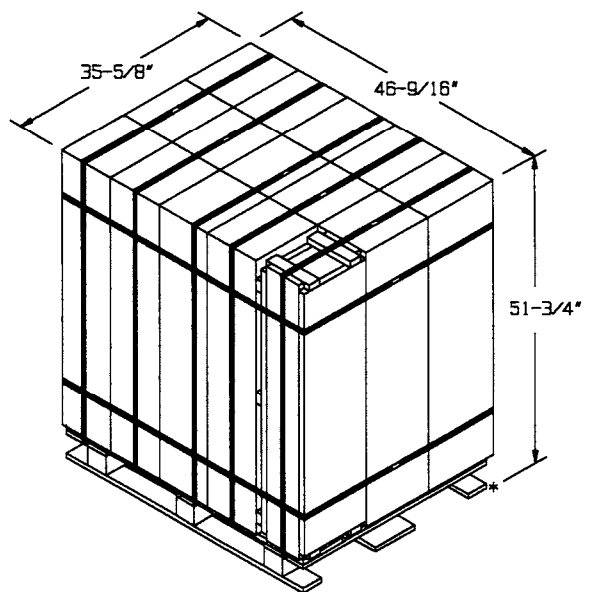
PALLET UNIT NO. 5

UNIT WEIGHT - - - - - 1,988 POUNDS (APPROX)
 CUBE - - - - - 53.7 CUBIC FEET



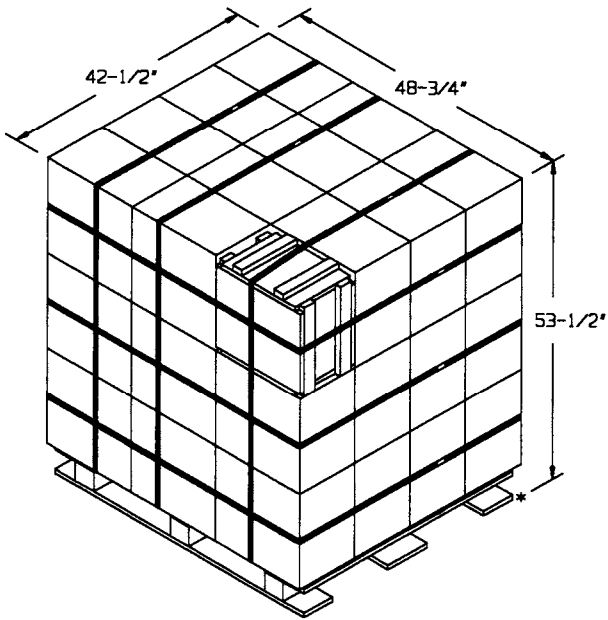
PALLET UNIT NO. 6

UNIT WEIGHT - - - - - 2,524 POUNDS (APPROX)
 CUBE - - - - - 62.2 CUBIC FEET



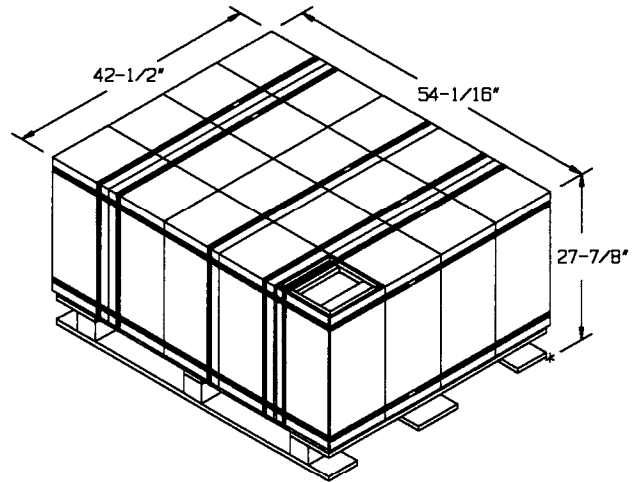
PALLET UNIT NO. 7

UNIT WEIGHT - - - - - 2,188 POUNDS (APPROX)
 CUBE - - - - - 49.7 CUBIC FEET



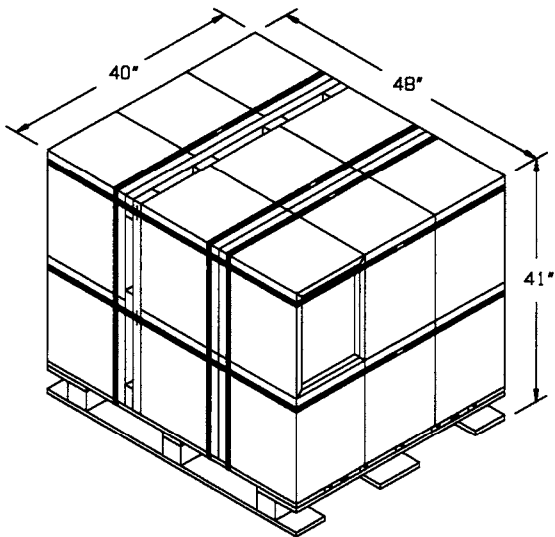
PALLET UNIT NO. 8

UNIT WEIGHT - - - - - 2,679 POUNDS (APPROX)
 CUBE - - - - - 64.2 CUBIC FEET



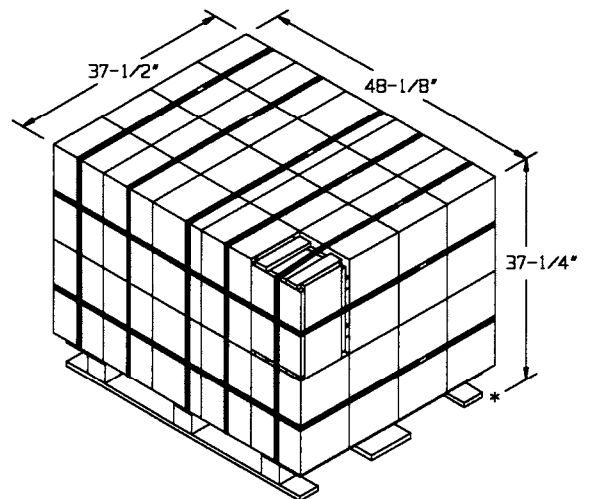
PALLET UNIT NO. 9

UNIT WEIGHT - - - - - 1,377 POUNDS (APPROX)
 CUBE - - - - - 37.1 CUBIC FEET



PALLET UNIT NO. 10

UNIT WEIGHT - - - - - 2,051 POUNDS (APPROX)
 CUBE - - - - - 45.6 CUBIC FEET

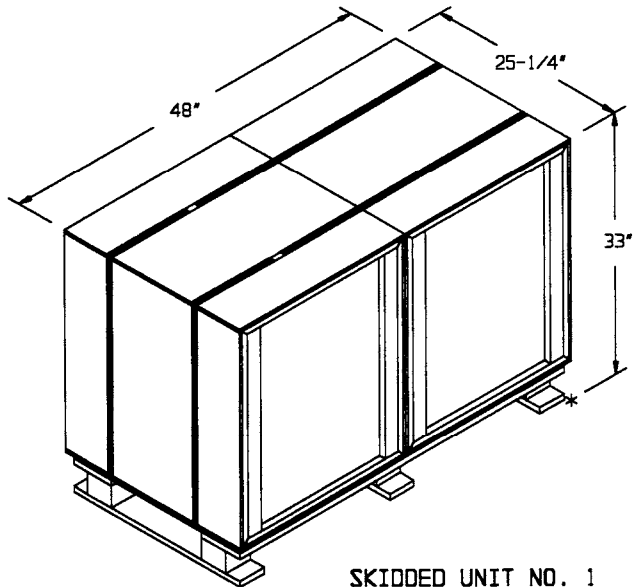


PALLET UNIT NO. 11

UNIT WEIGHT - - - - - 1,552 POUNDS (APPROX)
 CUBE - - - - - 38.9 CUBIC FEET

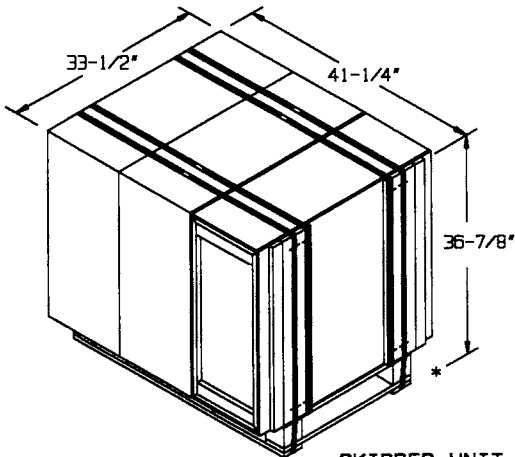
SPECIAL NOTES:

1. THE FOLLOWING SPECIAL NOTES AND THE FIVE CHARTS ON PAGE 7 ARE PRESENTED AS GUIDANCE IN THE SELECTION OF A LOAD PATTERN, AND IN DETERMINING THE QUANTITY OF UNITS WHICH CAN BE LOADED IN A 20' LONG BY 8' WIDE BY 8'-6" HIGH SIDE OPENING ISO CONTAINER, BASED ON THE SIZE AND WEIGHT OF THE PALLETIZED OR SKIDDED UNIT TO BE LOADED.
2. CHART NO. 1 MAY BE USED IN SELECTING A LOAD PATTERN FOR THE WIDTH OF THE CONTAINER WHICH IS TO BE LOADED. THE LOAD PATTERN WILL BE BASED EITHER ON THE UNIT LENGTH ACROSS THE CONTAINER OR ON THE UNIT WIDTH ACROSS THE CONTAINER, DEPENDENT UPON THE LENGTH OR WIDTH DIMENSIONS OF THE UNIT TO BE LOADED. UNIT SIZE RANGES AND LOAD PATTERNS FOR AN 89" INSIDE WIDTH CONTAINER ARE GIVEN. CONTAINERS OF OTHER WIDTHS MAY BE USED, HOWEVER, THE SIZE RANGE OF THE UNITS WHICH CAN BE LOADED IN THE TWO LOAD PATTERNS WILL HAVE TO BE CALCULATED. THE SMALLER FIGURE SHOWN FOR UNIT SIZE RANGE IS BASED ON THE MINIMUM UNIT LENGTH OR WIDTH, AS APPLICABLE, AND THE LARGER FIGURE IS CALCULATED ON THERE BEING AT LEAST 1" EXCESS LATERAL SPACE REMAINING IN THE CONTAINER AFTER THE UNITS ARE POSITIONED.
3. CHART NO. 2 MAY BE USED IN DETERMINING THE QUANTITY OF UNITS WHICH CAN BE POSITIONED WITHIN ONE ROW IN THE LENGTH OF THE CONTAINER. THE UNIT SIZE RANGE FOR A 20' CONTAINER IS BASED ON THE INSIDE LENGTH OF THE CONTAINER BEING 19'-4" LONG AND ALSO ON A REQUIRED TOTAL INSIDE BLOCKING THICKNESS AVERAGING BETWEEN 14-1/2" AND 25".
4. CHART NO. 3 MAY BE USED IN DETERMINING THE NUMBER OF TIERS WHICH CAN BE LOADED IN A CONTAINER, BASED ONLY UPON THE HEIGHT OF THE UNIT. THE INSIDE HEIGHT OF AN 8'-6" CONTAINER IS 88". THE HEIGHT RANGE OF THE UNITS SPECIFIED ALLOWS AT LEAST 1/2" CLEARANCE AT THE ROOF. NO ALLOWANCE HAS BEEN MADE FOR DOOR OPENING HEIGHT CLEARANCE. FOR LOADS WHICH ARE OF SUCH A HEIGHT AS TO EXTEND TO WITHIN 3" OR 4" OF THE ROOF, IT MAY NOT BE POSSIBLE TO PLACE THE TOP UNITS IN THE DOOR SIDE LOAD BAYS. THE ACTUAL NUMBER OF TIERS WHICH CAN BE LOADED WILL BE BASED ON SEVERAL FACTORS SUCH AS THE WEIGHT OF THE UNITS AND THE QUANTITY THAT IS TO BE SHIPPED.
5. CHART NO. 4 MAY BE USED AS GUIDANCE IN DETERMINING THE QUANTITY OF UNITS WHICH CAN BE LOADED IN A CONTAINER, BASED ONLY UPON THE WEIGHT OF THE UNIT. THE "UNIT WEIGHT IN LBS" COLUMN SPECIFIES WEIGHTS RANGING FROM 250 POUNDS, THE APPROXIMATE MINIMUM, TO 4,000 POUNDS, THE MAXIMUM WEIGHT ALLOWABLE IN A PALLET UNIT. THE QUANTITY REQUIRED TO MAKE A SPECIFIED LOAD WEIGHT FOR A UNIT WHICH WEIGHS SOMEWHERE BETWEEN THE FIGURES GIVEN WILL HAVE TO BE CALCULATED BASED ON THE MAXIMUM LADING WEIGHT RESTRICTION FOR THE CONTAINER TO BE LOADED. FOR EXAMPLE, A TOTAL LOAD OF 22 PALLETIZED OR SKIDDED UNITS WEIGHING 2,000 POUNDS EACH CAN BE LOADED IN A CONTAINER WITHOUT EXCEEDING A 52,910 POUND CONTAINER GROSS WEIGHT LIMITATION.
6. CHART NO. 5 MAY BE USED AS GUIDANCE IN DETERMINING THE NUMBER AND CONFIGURATION OF THE BOX BEAM ASSEMBLIES REQUIRED TO FABRICATE THE FORWARD/REAR BLOCKING ASSEMBLIES FOR A SPECIFIED CONTAINER LOAD WEIGHT. THE BOX BEAM ASSEMBLIES WILL BE ARRANGED IN SUCH A MANNER SO AS TO PROVIDE MAXIMUM SUPPORT FOR EACH TIER BEING BLOCKED. ADDITIONALLY, THE BEAM ASSEMBLIES WILL BE ARRANGED IN A SYMMETRICAL PATTERN FOR EACH TIER. A MINIMUM OF TWO BOX BEAM ASSEMBLIES ARE REQUIRED PER TIER OF LADING, UNLESS THE PALLETIZED OR SKIDDED UNIT BEING LOADED IS CONFIGURED AS A TWO OR ONE BOX HIGH UNIT, IN WHICH CASE ONE BOX BEAM MAY BE USED PER TIER OF LADING, PROVIDING EACH LAYER OF BOXES IS IN CONTACT WITH A BOX BEAM.
7. CHART NO. 6 MAY BE USED AS GUIDANCE IN DETERMINING THE COMBINATIONS OF LENGTHS AND WIDTHS WHICH ARE ACCEPTABLE FOR CHIMNEY-PATTERN LOADS.
8. WHENEVER THE GROSS WEIGHT OF THE LADING BEING LOADED IN A CONTAINER EXCEEDS 28,000 POUNDS AND THE TOTAL HEIGHT OF THE LOAD IS LESS THAN 70", ADDITIONAL SIDEWALL STRENGTHENING MUST BE PROVIDED. THIS ADDITIONAL SIDEWALL STRENGTHENING IS USUALLY PROVIDED IN THE FORM OF SIDE FILL ASSEMBLIES. FOR ADDITIONAL GUIDANCE, SEE THE SIDE FILL ASSEMBLIES ON PAGES 19, 23, 27, 35, 39, 51, 62 AND 66. WHENEVER THE GROSS WEIGHT OF THE LADING IS LESS THAN 28,000 POUNDS, OR WHEN THE HEIGHT OF THE LADING IS AT LEAST 70", AND THERE IS MORE THAN 1-1/2" OF UNBLOCKED SPACE ACROSS THE WIDTH OF THE LOAD BAY, THIS UNBLOCKED SPACE MUST BE FILLED OUT EITHER BY PLACING SIDE FILL ASSEMBLIES AT THE SIDES OF THE LOAD OR CRIB FILL ASSEMBLIES IN THE CENTER OF THE LOAD. FOR ADDITIONAL GUIDANCE, SEE THE CRIB FILL ASSEMBLIES ON PAGES 11, 35, 43, 55, 58, 63 AND 66. WHENEVER THE GROSS WEIGHT OF THE LADING IS LESS THAN 28,000 POUNDS OR THE LOAD IS AT LEAST 70" TALL, AND THE UNBLOCKED SPACE ACROSS THE WIDTH OF THE LOAD BAY IS 1-1/2" OR LESS, NEITHER SIDE BLOCKING NOR CENTER BLOCKING WILL BE REQUIRED.



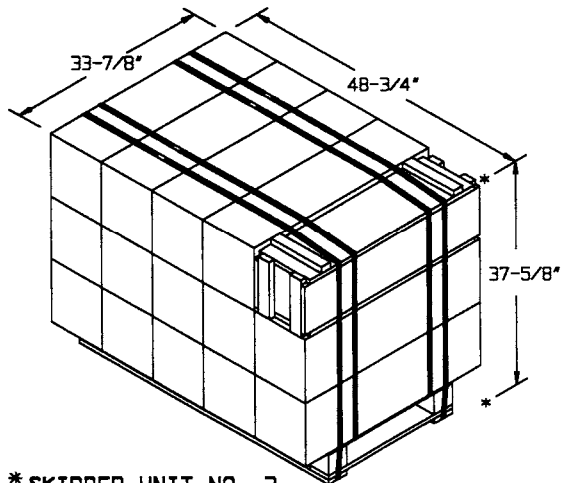
SKIDDED UNIT NO. 1

UNIT WEIGHT ----- 294 POUNDS (APPROX)
 CUBE ----- 23.1 CUBIC FEET



SKIDDED UNIT NO. 2

UNIT WEIGHT ----- 480 POUNDS (APPROX)
 CUBE ----- 29.5 CUBIC FEET



*** SKIDDED UNIT NO. 3**

UNIT WEIGHT ----- 1,037 POUNDS (APPROX)
 CUBE ----- 36.0 CUBIC FEET

* THE DETAIL FOR SKIDDED UNIT NO. 4 IS ON PAGE 65. THIS UNIT IS 48-3/8" L X 32-1/8" W X 31" H AND 790 POUNDS.

CHART NO. 1				
UNITS IN WIDTH OF 89" INSIDE WIDTH CONTAINER				
LOAD PATTERN	UNIT SIZE RANGE			
	PALLETIZED OR SKIDDED UNITS (LENGTH ACROSS CONTAINER)		PALLETIZED OR SKIDDED UNITS (WIDTH ACROSS CONTAINER)	
	UNIT LENGTH	LOAD PAGE	UNIT WIDTH	LOAD PAGE
2-WIDE	25" - 44"	8, 12, 16 20, 24, 28, 36, 40, 44	25" - 44"	56
3-WIDE	25" - 29-1/4"		25" - 29-1/4"	52

CHART NO. 4	
MAXIMUM NUMBER OF UNITS PER CONTAINER BY WEIGHT	
NO. OF UNITS (52,910 LB LADING LIMIT)	UNIT WEIGHT IN LBS
184	250
153	300
115	400
92	500
76	600
65	700
57	800
51	900
46	1,000
41	1,100
38	1,200
35	1,300
32	1,400
30	1,500
28	1,600
27	1,700
25	1,800
24	1,900
23	2,000
21	2,100
20	2,200
19	2,400
18	2,500
17	2,600
16	2,800
15	2,900
14	3,100
13	3,300
12	3,600
11	3,900
10	4,200

CHART NO. 3	
TIERS IN HEIGHT OF 88" INSIDE HEIGHT CONTAINER	
NUMBER OF TIERS	UNIT HEIGHT RANGE
3	UP TO 29"
2	29" - 43-3/4"
1	OVER 43-3/4"

CHART NO. 2	
UNITS IN LENGTH OF 232" INSIDE LENGTH CONTAINER	
NUMBER OF UNITS LONG	UNIT SIZE RANGE
8	UNDER 27-1/4"
7	27-1/4" - 31"
6	31-1/4" - 36-1/4"
5	36-1/2" - 43-1/2"
4	43-3/4" - 54-1/4"
3	54-1/2" - 72-1/2"

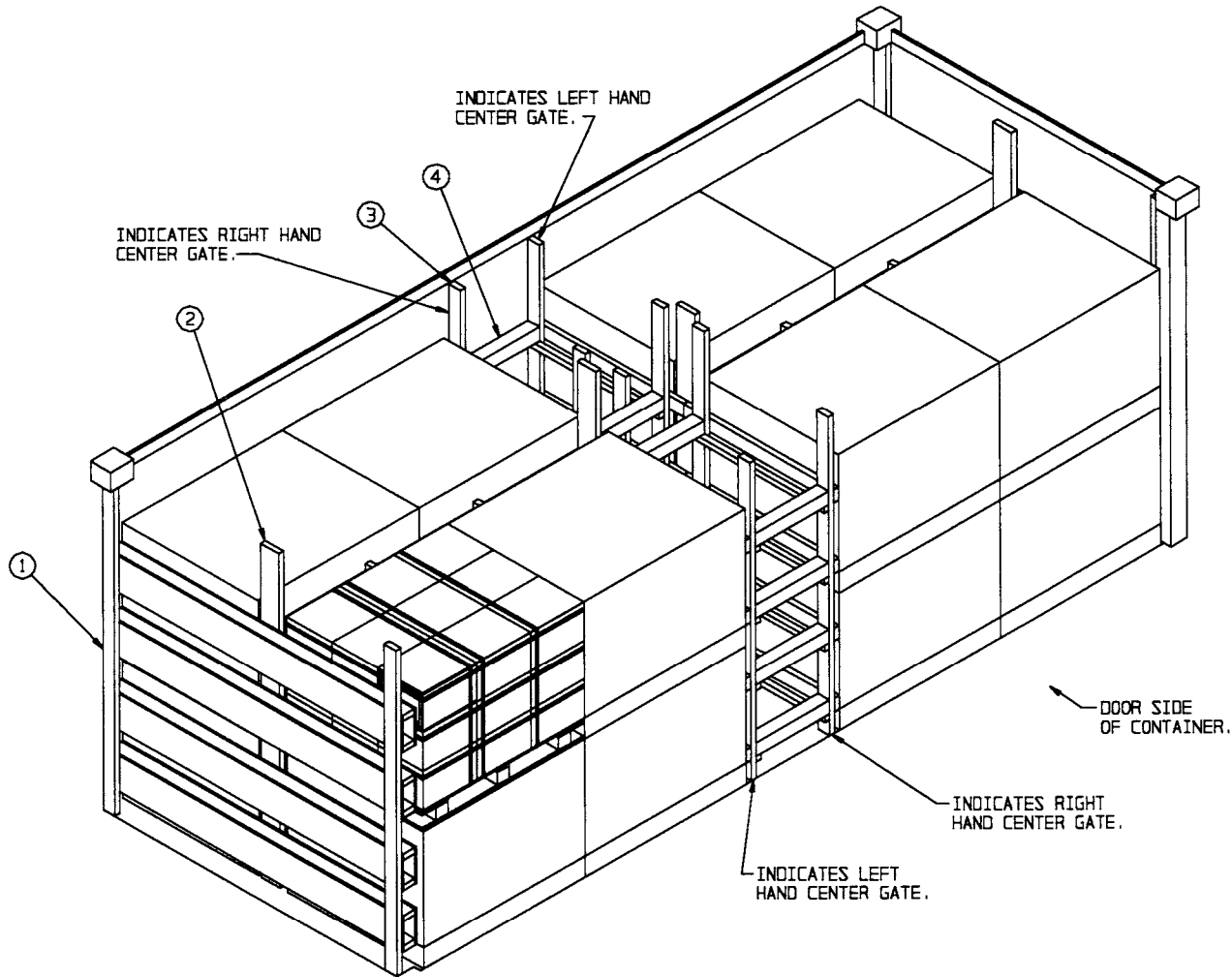
NOTE ▲:

A BOX BEAM ASSEMBLY CONSISTS OF TWO PIECES OF PLYWOOD AND TWO OR THREE PIECES OF NOMINAL LUMBER. EACH END BLOCKING ASSEMBLY CONSISTS OF TWO BUFFER PIECES NAILED TO THE QUANTITY OF BOX BEAM ASSEMBLIES OUTLINED IN "CHART 5" BELOW. SEE ALSO THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68. THE BOX BEAM CONFIGURATIONS IN "CHART 5" ARE AS FOLLOWS:

- CONFIGURATION A - TWO 2" X 4" BEAMS AND 1/2" X 9-1/2" PLYWOOD. SEE "END BLOCKING ASSEMBLY A" ON PAGE 10 FOR AN EXAMPLE.
- CONFIGURATION B - TWO 2" X 4" BEAMS AND 3/4" X 9-1/2" PLYWOOD. SEE "END BLOCKING ASSEMBLY C" ON PAGE 18 FOR AN EXAMPLE.
- CONFIGURATION C - TWO 2" X 6" BEAMS AND 1/2" X 9-1/2" PLYWOOD. SEE "END BLOCKING ASSEMBLY D" ON PAGE 22 FOR AN EXAMPLE.
- CONFIGURATION D - TWO 2" X 6" BEAMS AND 3/4" X 9-1/2" PLYWOOD. CONSTRUCT SIMILAR TO CONFIGURATION C, EXCEPT USE 3/4" PLYWOOD.
- CONFIGURATION E - THREE 2" X 4" BEAMS AND 1/2" X 11-1/2" PLYWOOD. CONSTRUCT SIMILAR TO CONFIGURATION F, EXCEPT USE 1/2" PLYWOOD.
- CONFIGURATION F - THREE 2" X 4" BEAMS AND 3/4" X 11-1/2" PLYWOOD. SEE "END BLOCKING ASSEMBLY F" ON PAGE 30 FOR AN EXAMPLE.
- CONFIGURATION G - THREE 2" X 6" BEAMS AND 1/2" X 11-1/2" PLYWOOD. CONSTRUCT SIMILAR TO CONFIGURATION E, EXCEPT USE 2" X 6" LUMBER.
- CONFIGURATION H - THREE 2" X 6" BEAMS AND 3/4" X 11-1/2" PLYWOOD. CONSTRUCT SIMILAR TO CONFIGURATION F, EXCEPT USE 2" X 6" LUMBER.

CHART NO. 5								
REQUIRED BOX BEAM ASSEMBLIES FOR FORWARD/REAR BLOCKING ASSEMBLY								
CONFIGURATION OF BOX BEAM ASSEMBLY (SEE NOTE ▲ ABOVE)	MAXIMUM LOAD WEIGHT IN POUNDS							
	NO. OF BOX BEAM ASSEMBLIES PER FORWARD/REAR BLOCKING ASSEMBLY							
	1	2	3	4	5	6	7	8
A	6,325	12,650	18,975	25,300	31,625	37,950	44,275	50,600
B	8,815	17,630	26,445	35,260	44,075	52,890		
C	11,400	22,800	34,200	45,600	57,000			
D	15,085	30,170	45,255	60,340				
E	8,060	16,120	24,180	32,240	40,300	48,360	56,420	
F	11,030	22,060	33,090	44,120	55,150			
G	14,875	29,750	44,625	59,500				
H	19,260	38,520	57,780					

CHART NO. 6	
CONTAINER WIDTH 89" (INSIDE DIMENSION)	
UNIT LENGTH OR WIDTH	PALLETIZED OR SKIDDED UNIT LENGTH/WIDTH COMBINATIONS MINIMUM TO MAXIMUM UNIT WIDTH
44"	35" - 45"
43"	36" - 46"
42"	37" - 47"
41"	38" - 48"
40"	39" - 49"
39"	40" - 50"
38"	41" - 51"
37"	42" - 52"
36"	43" - 53"
35"	44" - 54"
34"	45" - 55"
33"	46" - 56"
32"	47" - 57"
31"	48" - 58"
30"	49" - 59"
29"	50" - 60"
28"	51" - 61"
27"	52" - 62"



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY A (2 REQD). SEE THE DETAIL ON PAGE 10 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② CRIB FILL ASSEMBLY A (2 REQD). SEE THE DETAIL ON PAGE 11.
- ③ CENTER GATE A (4 REQD, 2 RIGHT HAND AND 2 LEFT HAND). SEE THE DETAIL ON PAGE 10.
- ④ STRUT, 4" X 4" BY CUT TO FIT (REF: 22") (16 REQD). TOENAIL TO PIECES MARKED ③ W/2-12d NAILS AT EACH END. SEE THE "BEVEL-CUT" DETAIL ON PAGE 73.

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES A, TWO CRIB FILL ASSEMBLIES A AND FOUR CENTER GATES A, TWO RIGHT HAND AND TWO LEFT HAND.
2. INSTALL ONE END BLOCKING ASSEMBLY A AND LOAD FOUR PALLET UNITS.
3. REPEAT STEP TWO.
4. INSTALL TWO CENTER GATES A (ONE RIGHT HAND AND ONE LEFT HAND) AND EIGHT STRUTS.
5. INSTALL THE TWO CRIB FILL ASSEMBLIES A AND LOAD THE REMAINING EIGHT PALLET UNITS.
6. REPEAT STEP 4.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	64	22
2" X 2"	54	18
2" X 4"	323	216
2" X 6"	51	51
4" X 4"	30	40
NAILS	NO. REQD	POUNDS
6d (2")	416	2-1/2
10d (3")	256	4
12d (3-1/4")	64	1-1/4
PLYWOOD, 1/2" - - -	90.78 SQ FT REQD - - -	124.82 LBS

LOAD AS SHOWN

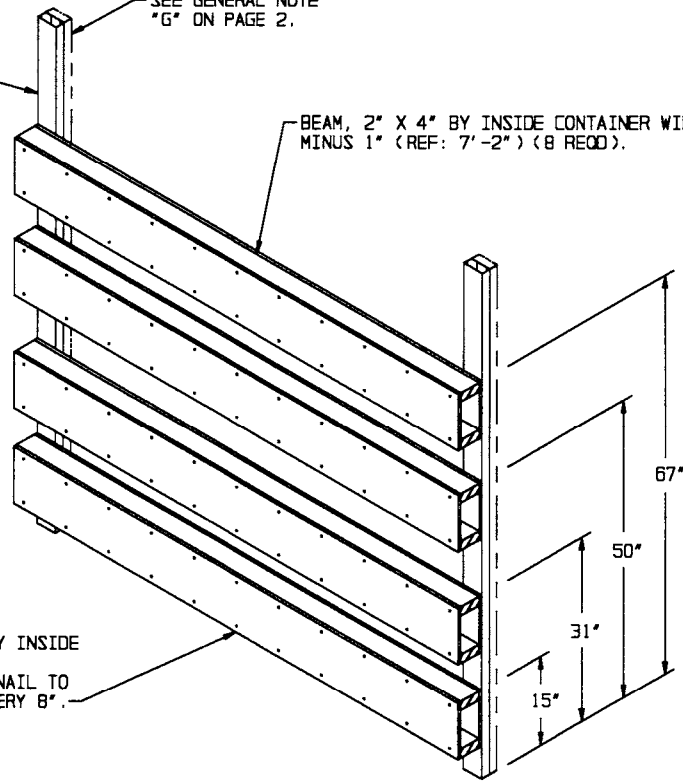
ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT - - - - -	16 - - - - -	24,288 LBS
DUNNAGE - - - - -	- - - - -	827 LBS
CONTAINER - - - - -	- - - - -	6,050 LBS
TOTAL WEIGHT - - - - -		31,165 LBS (APPROX)

BUFFER PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1") (2 REQD). NAIL THRU PLYWOOD INTO THE BEAMS W/2-10d NAILS AT EACH JOINT.

SEE GENERAL NOTE "G" ON PAGE 2.

BEAM, 2" X 4" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (8 REQD).

PLYWOOD, 1/2" X 9-1/2" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (8 REQD). NAIL TO THE BEAMS W/1-6d NAIL EVERY 8".

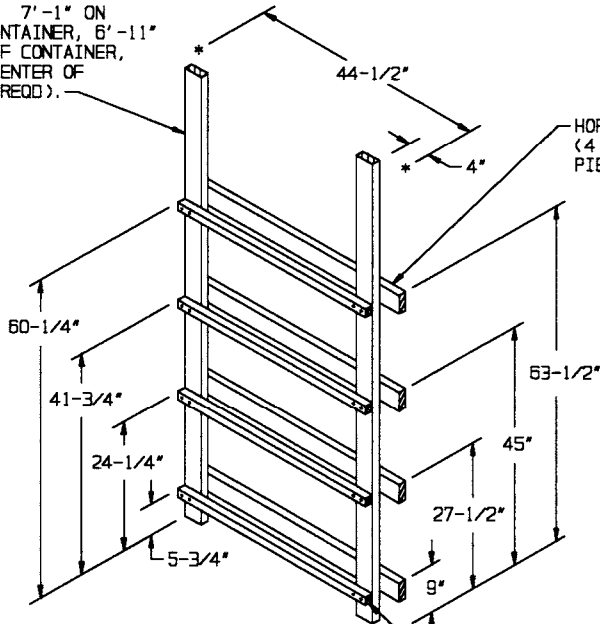


END BLOCKING ASSEMBLY A

NOTE: FOR ONE-HIGH LOAD, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES. A TWO LAYER LOAD MAY NOT EXCEED 25,300 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 12,650 POUNDS.

VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1" ON FAR SIDE OF CONTAINER, 6'-11" ON DOOR SIDE OF CONTAINER, AND 7'-3" IN CENTER OF CONTAINER) (2 REQD).

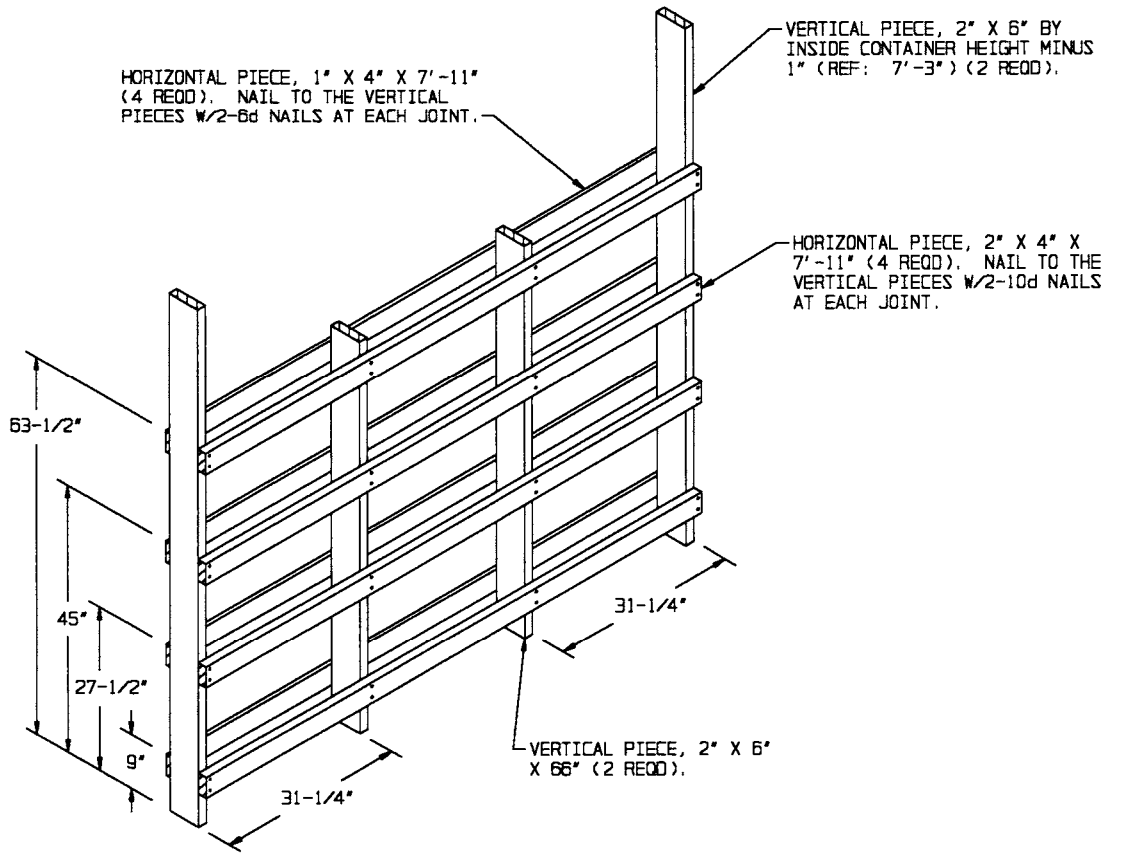
HORIZONTAL PIECE, 2" X 4" X 44-1/2" (4 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.



CENTER GATE A

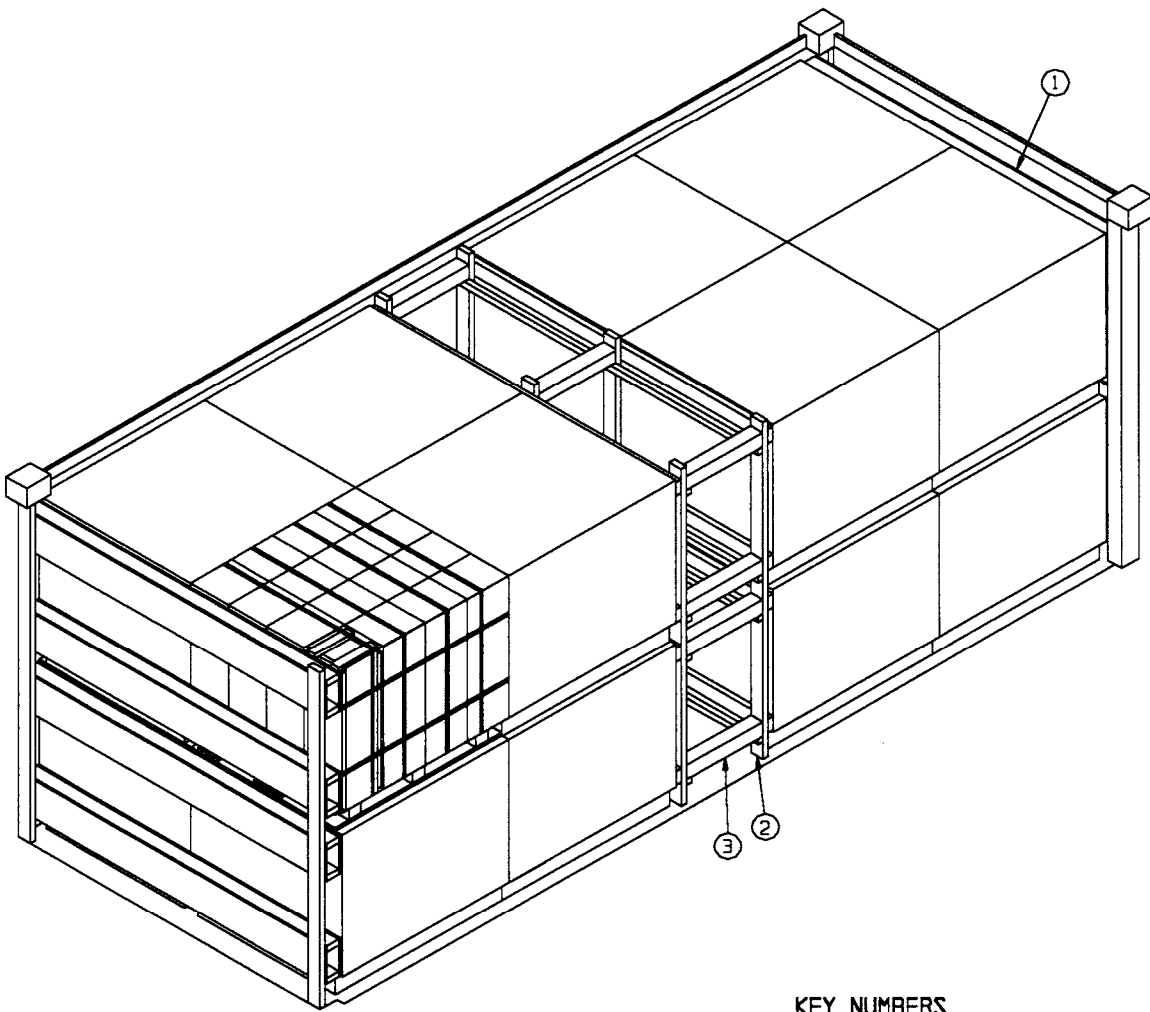
A LEFT HAND GATE IS SHOWN ABOVE. TWO LEFT HAND AND TWO RIGHT GATES ARE REQUIRED. FOR A ONE HIGH LOAD, ELIMINATE THE TOP TWO HORIZONTAL PIECES AND THE TOP TWO STRUTS LEDGERS.

STRUT LEDGER, 2" X 2" X 40-1/2" (4 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.



CRIB FILL ASSEMBLY A

FOR A ONE HIGH LOAD, REDUCE THE 66" VERTICAL PIECES TO 30" AND ELIMINATE THE TOP FOUR HORIZONTAL PIECES.



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY B (2 REQD). SEE THE DETAIL ON PAGE 14 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② CENTER GATE B (2 REQD). SEE THE DETAIL ON PAGE 15.
- ③ STRUT, 4" X 4" BY CUT TO FIT (REF: 22") (12 REQD). TOENAIL TO THE VERTICAL PIECE OF THE CENTER GATE, PIECE MARKED ①, W/2-12d NAILS AT EACH END. SEE THE "BEVEL-CUT" DETAIL ON PAGE 73.

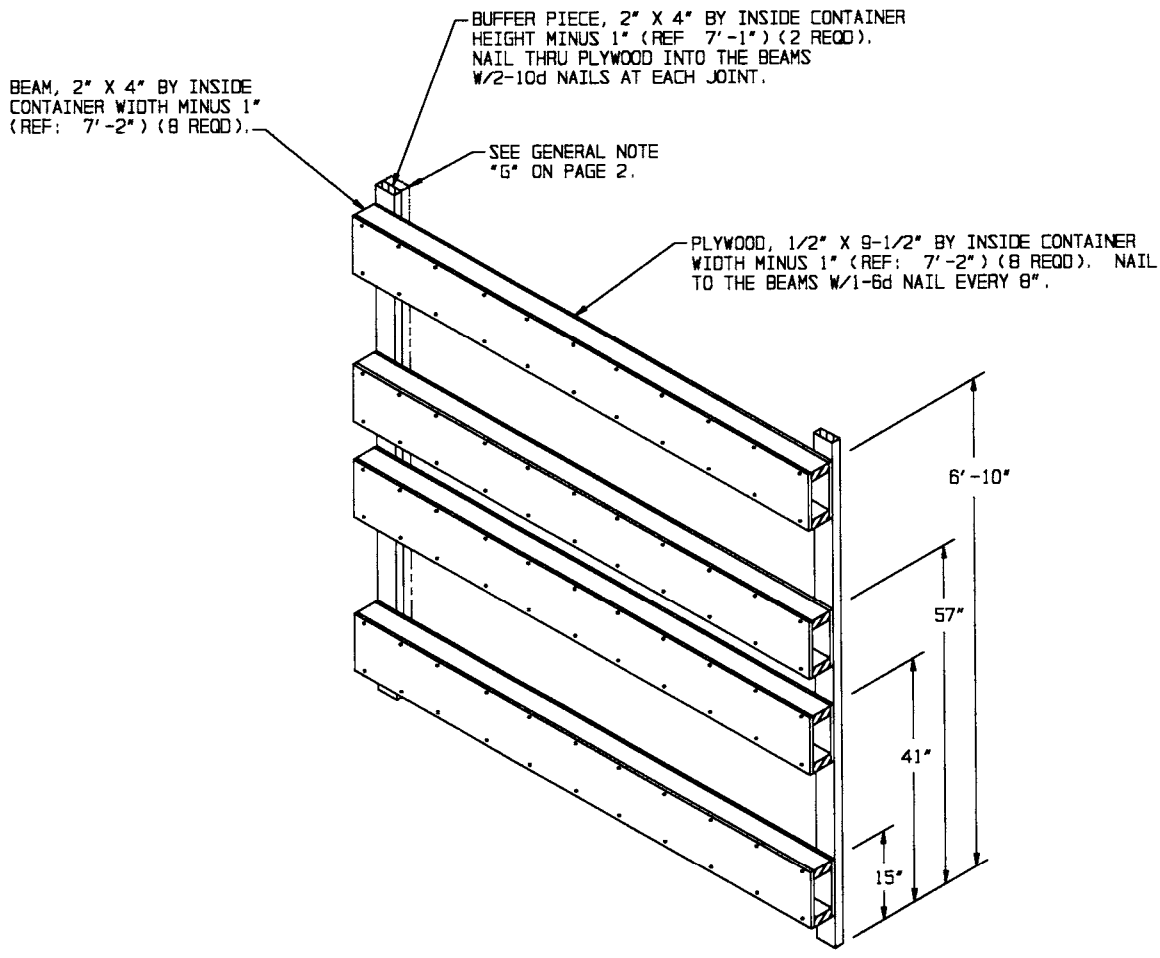
RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES B AND TWO CENTER GATES B.
2. INSTALL ONE END BLOCKING ASSEMBLY B.
3. LOAD EIGHT PALLET UNITS.
4. REPEAT STEPS 2 AND 3.
5. INSTALL TWO CENTER GATES B.
6. INSTALL THE STRUTS BETWEEN THE TWO CENTER GATES.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
2" X 2"	59	20
2" X 4"	244	163
4" X 4"	22	30
NAILS	NO. REQD	POUNDS
6d (2")	352	2-1/4
10d (3")	160	2-1/2
12d(3-1/4")	48	1
PLYWOOD, 1/2"	90.78 SQ FT REQD	124.82 LBS

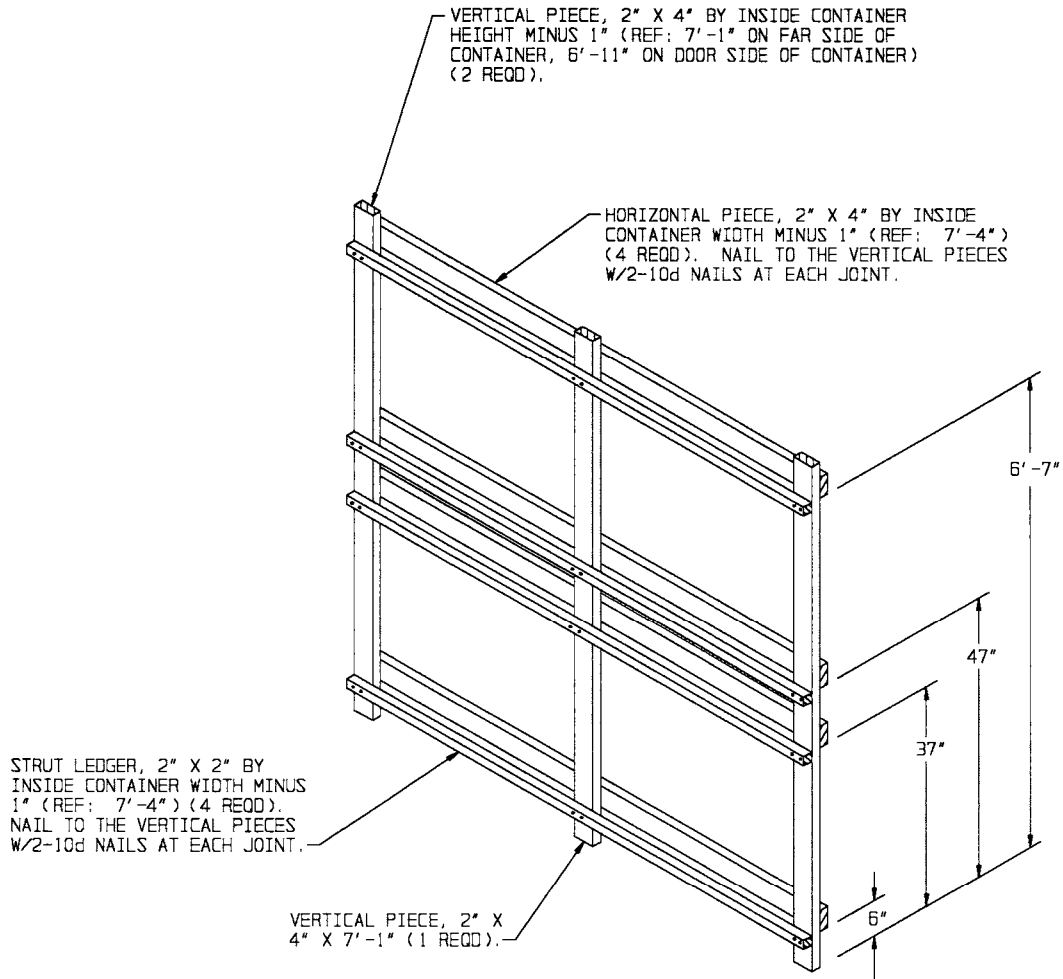
LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	16	21,152 LBS
DUNNAGE		497 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		27,699 LBS (APPROX)



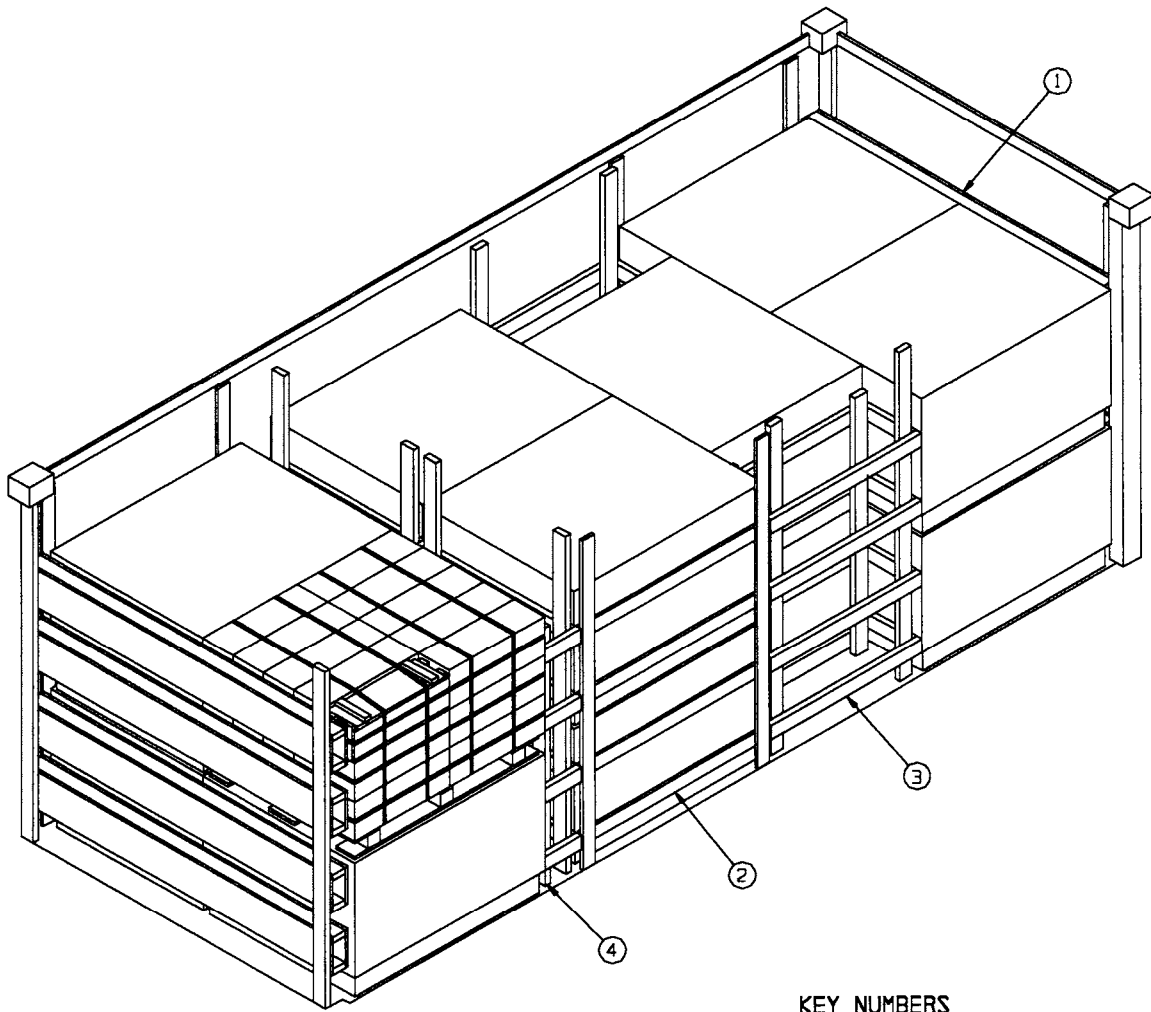
END BLOCKING ASSEMBLY B

NOTE: FOR ONE-HIGH LOAD, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES. A TWO LAYER LOAD MAY NOT EXCEED 25,300 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 12,650 POUNDS.



CENTER GATE B

FOR A ONE HIGH LOAD, REDUCE THE CENTER VERTICAL PIECE TO 44" AND ELIMINATE THE TOP TWO STRUT LEDGERS AND THE TOP TWO HORIZONTAL PIECES.



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY C (2 REQD). SEE THE DETAIL ON PAGE 18 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② SIDE FILL ASSEMBLY A (3 REQD). SEE THE DETAIL ON PAGE 19.
- ③ FILLER ASSEMBLY A (2 REQD). SEE THE DETAIL ON PAGE 19.
- ④ CENTER FILL A (2 REQD). SEE THE DETAIL ON PAGE 18.

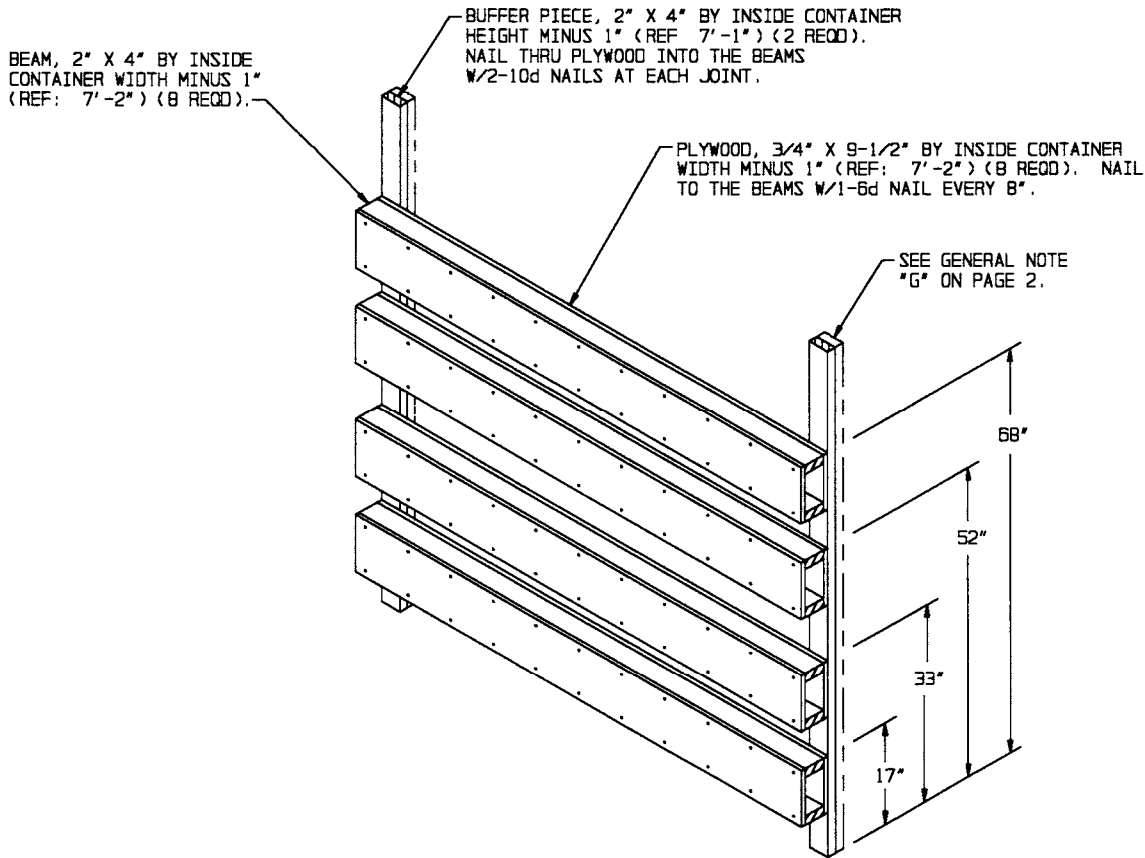
RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES C, TWO FILLER ASSEMBLIES A AND THREE SIDE FILL ASSEMBLIES A. TWO CENTER FILL ASSEMBLIES A MAY BE PARTIALLY ASSEMBLED AT THIS TIME BUT CANNOT BE COMPLETED UNTIL THE REQUIRED NUMBER OF VERTICAL PIECES IS DETERMINED.
2. INSTALL ONE END BLOCKING ASSEMBLY C.
3. INSTALL ONE SIDE FILL ASSEMBLY A AND LOAD FOUR PALLET UNITS.
4. REPEAT STEPS 2 AND 3.
5. INSTALL ONE FILLER ASSEMBLY A.
6. LOAD FOUR PALLET UNITS.
7. MEASURE THE VOID BETWEEN THE PALLET UNITS AT THE CENTER OF THE CONTAINER AND COMPLETE THE ASSEMBLY AND INSTALLATION OF ONE CENTER FILL ASSEMBLY A.
8. INSTALL THE SECOND FILLER ASSEMBLY A AND LOAD TWO PALLET UNITS.
9. REPEAT STEP 7 AND INSTALL THE THIRD SIDE FILL ASSEMBLY A.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	97	33
2" X 4"	366	244
NAILS	NO. REQD	POUNDS
6d (2")	400	2-1/2
10d (3")	320	5
PLYWOOD, 3/4"	90.78 SQ FT REQD	187.23 LBS

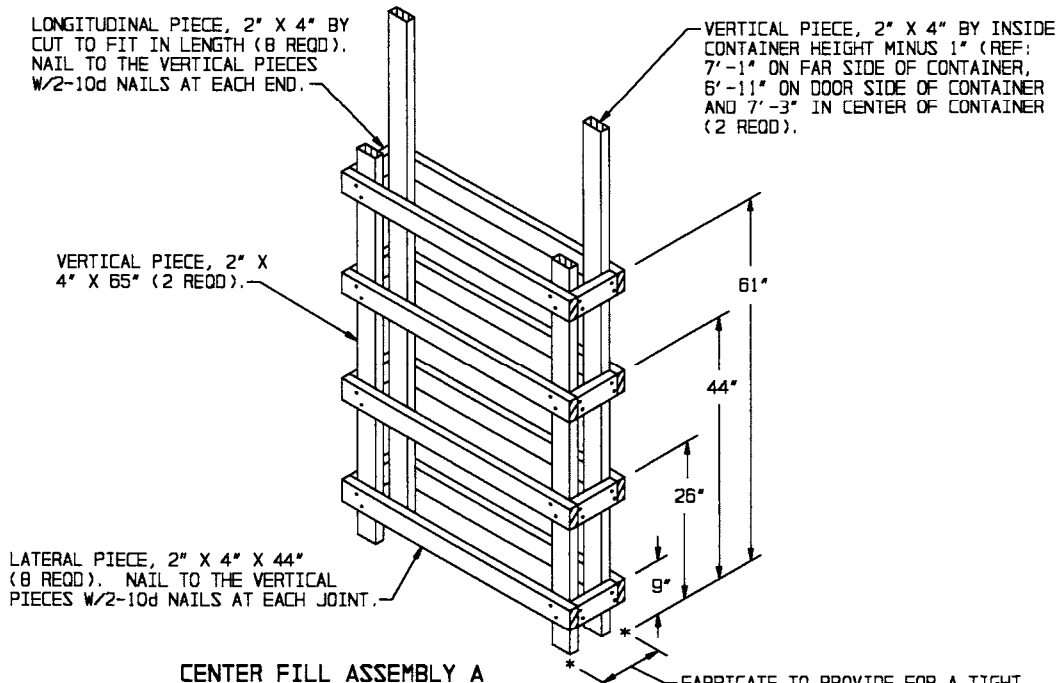
LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	14	26,152 LBS
DUNNAGE		749 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		32,951 LBS (APPROX)



END BLOCKING ASSEMBLY C

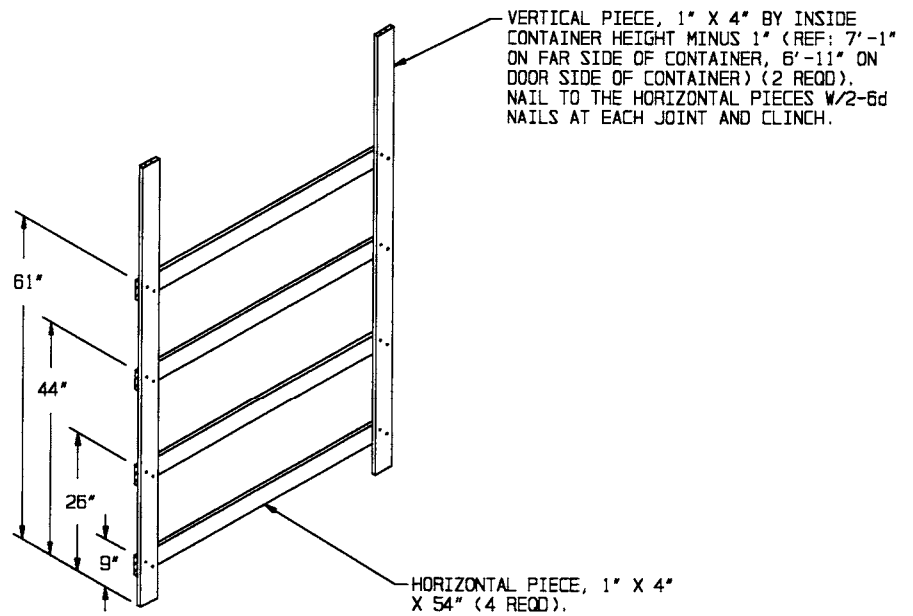
NOTE: FOR ONE-HIGH LOAD, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES. A TWO LAYER LOAD MAY NOT EXCEED 35,260 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 17,630 POUNDS.



CENTER FILL ASSEMBLY A

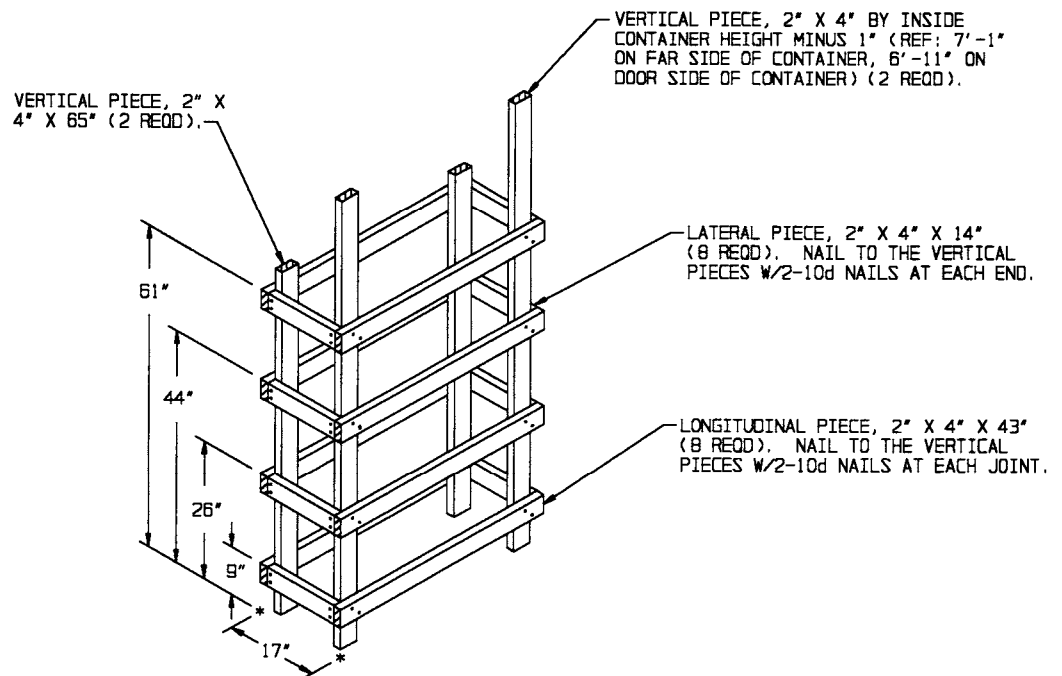
FOR A ONE HIGH LOAD, REDUCE THE 65" VERTICAL PIECES TO 30" AND ELIMINATE THE TOP FOUR LONGITUDINAL PIECES AND THE TOP FOUR LATERAL PIECES.

FABRICATE TO PROVIDE FOR A TIGHT LONGITUDINAL LOAD (REF: 10-5/8")



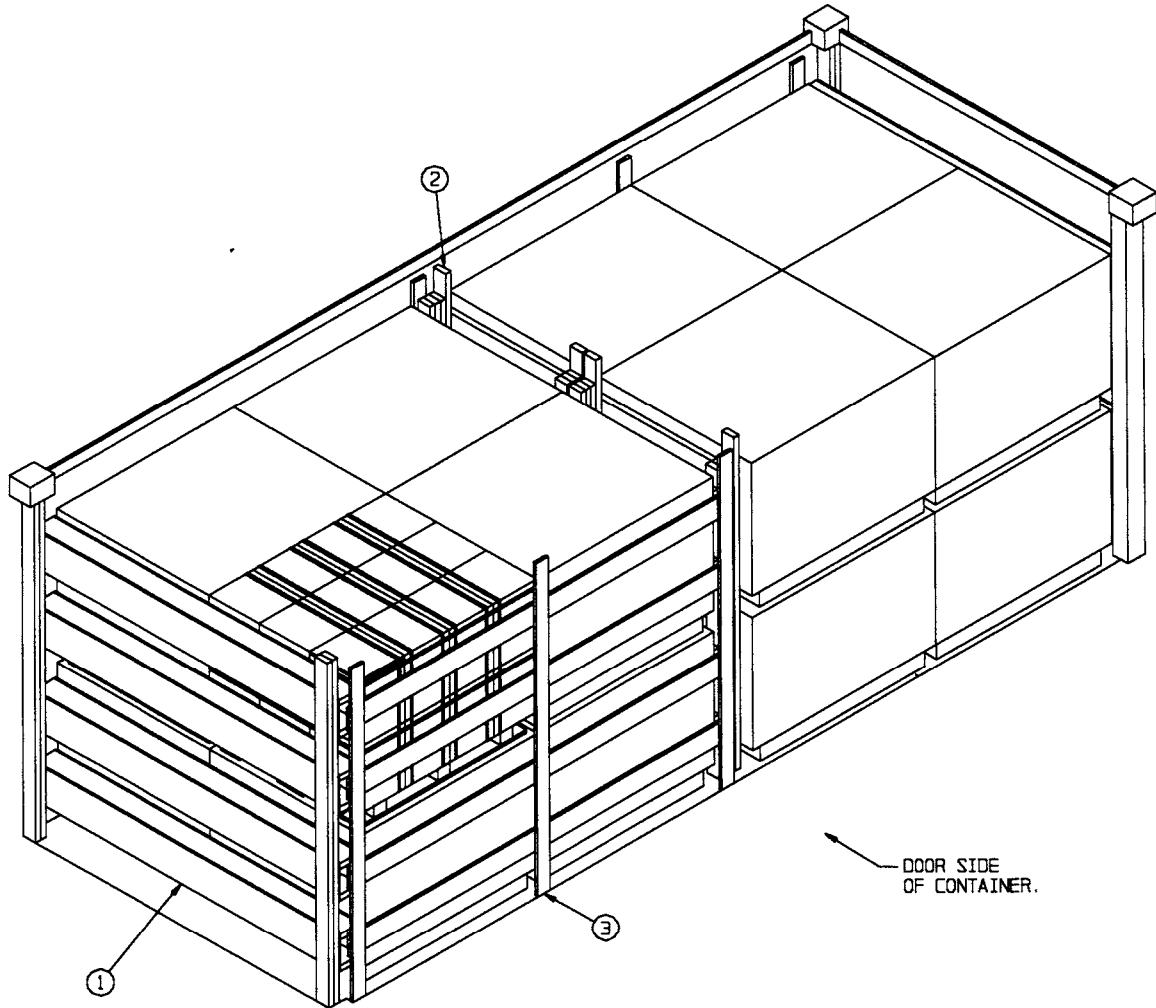
SIDE FILL ASSEMBLY A

FOR A ONE HIGH LOAD, ELIMINATE THE TOP TWO HORIZONTAL PIECES.



FILLER ASSEMBLY A

FOR A ONE HIGH LOAD, REDUCE THE 65" VERTICAL PIECE TO 30" AND ELIMINATE THE TOP FOUR LATERAL PIECES AND THE TOP FOUR LONGITUDINAL PIECES.



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY D (2 REQD). SEE THE DETAIL ON PAGE 22 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② CENTER FILL ASSEMBLY B (2 REQD). SEE THE DETAIL ON PAGE 22.
- ③ SIDE FILL ASSEMBLY B (2 REQD). SEE THE DETAIL ON PAGE 23.

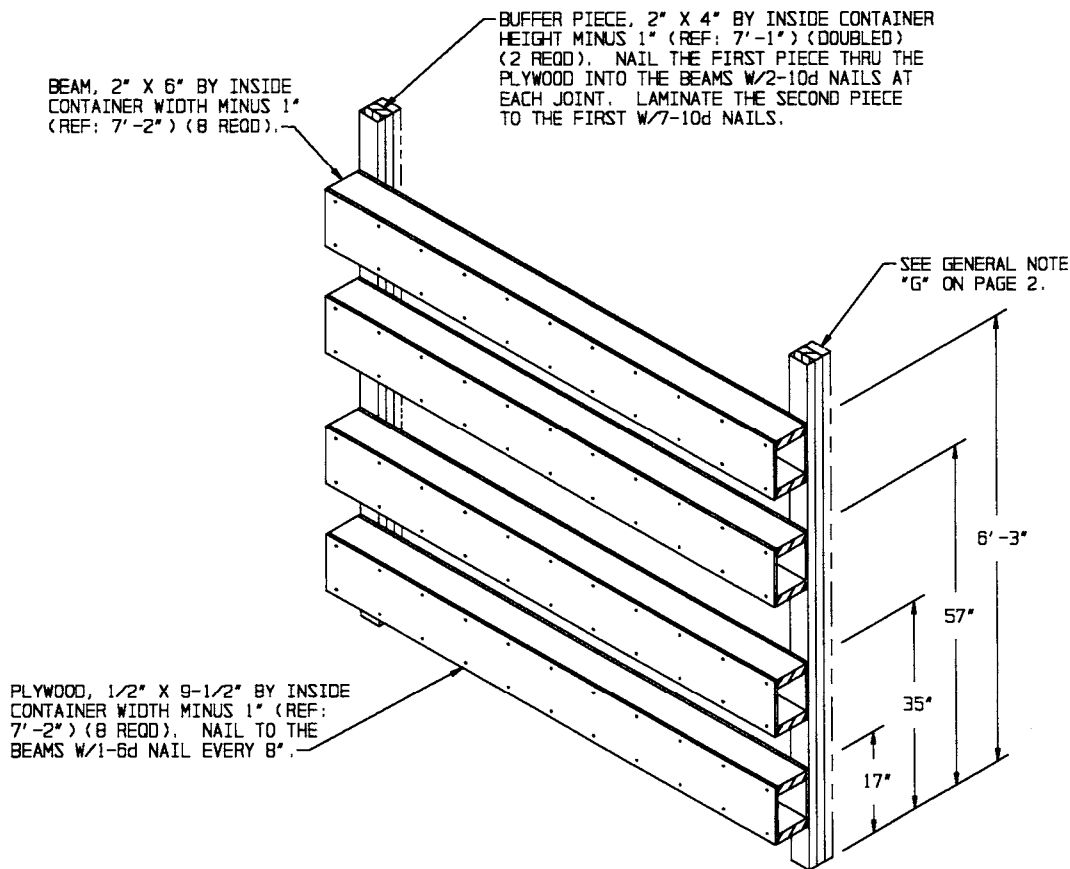
RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES D AND TWO SIDE FILL ASSEMBLIES B. TWO CENTER FILL ASSEMBLIES B MAY BE PARTIALLY ASSEMBLED AT THIS TIME BUT CANNOT BE COMPLETED UNTIL THE REQUIRED NUMBER OF VERTICAL PIECES IS DETERMINED.
2. INSTALL ONE END BLOCKING ASSEMBLY D AND LOAD FOUR PALLET UNITS.
3. INSTALL ONE END BLOCKING ASSEMBLY D, ONE SIDE FILL ASSEMBLY B, AND LOAD FOUR PALLET UNITS.
4. MEASURE THE VOID BETWEEN THE PALLET UNITS AT THE CENTER OF THE CONTAINER AND COMPLETE THE ASSEMBLY AND INSTALLATION OF ONE CENTER FILL ASSEMBLY B.
5. LOAD EIGHT PALLET UNITS.
6. REPEAT STEP FOUR.
7. INSTALL THE REMAINING SIDE FILL ASSEMBLY B.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	41	14
1" X 6"	74	37
2" X 4"	220	147
2" X 6"	115	115
NAILS	NO. REQD	POUNDS
6d (2")	424	2-1/2
10d (3")	240	3-3/4
PLYWOOD, 3/4"	90.78 SQ FT REQD	187.23 LBS

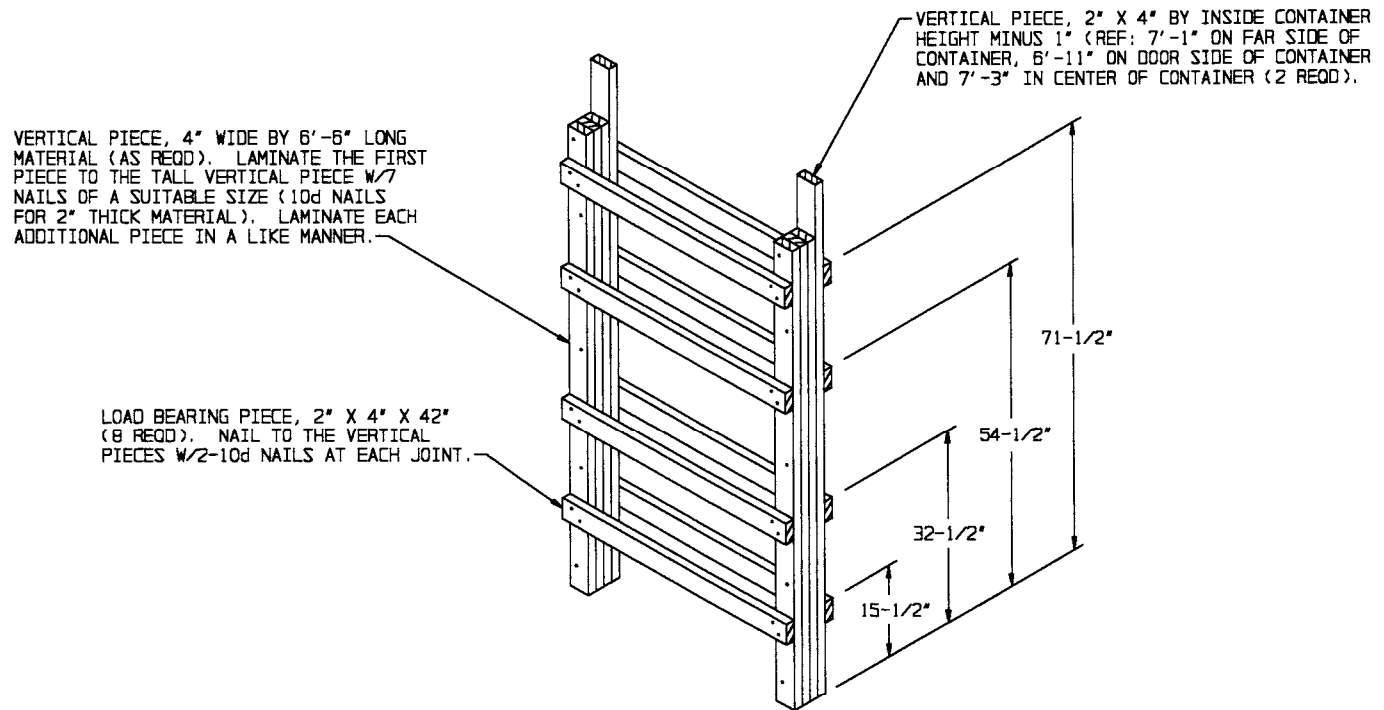
LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	16	43,664 LBS
DUNNAGE		820 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		50,534 LBS (APPROX)



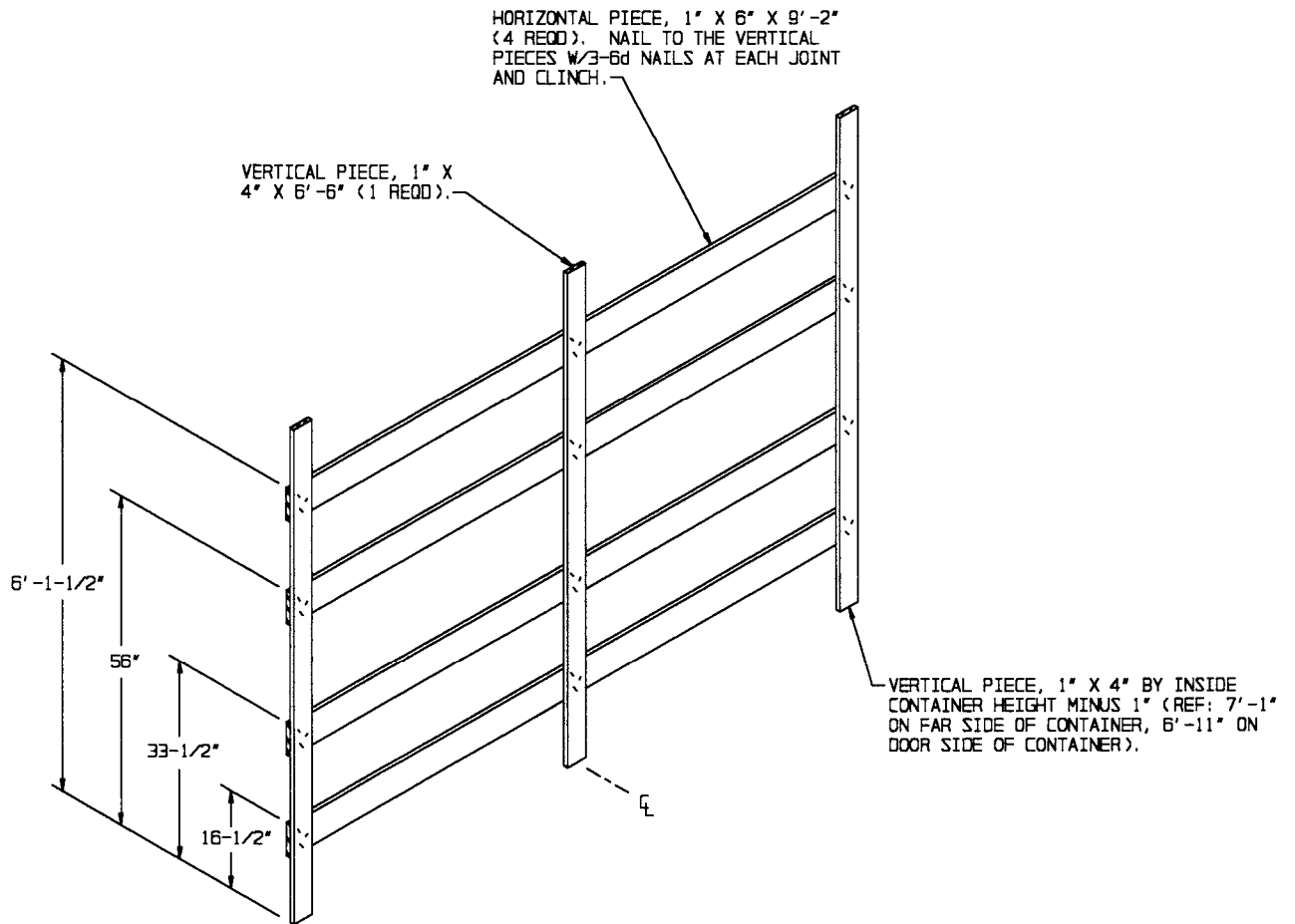
END BLOCKING ASSEMBLY D

NOTE: FOR ONE-HIGH LOAD, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES. A TWO LAYER LOAD MAY NOT EXCEED 45,600 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 22,800 POUNDS. SEE GENERAL NOTE "R" ON PAGE 3.



CENTER FILL ASSEMBLY B

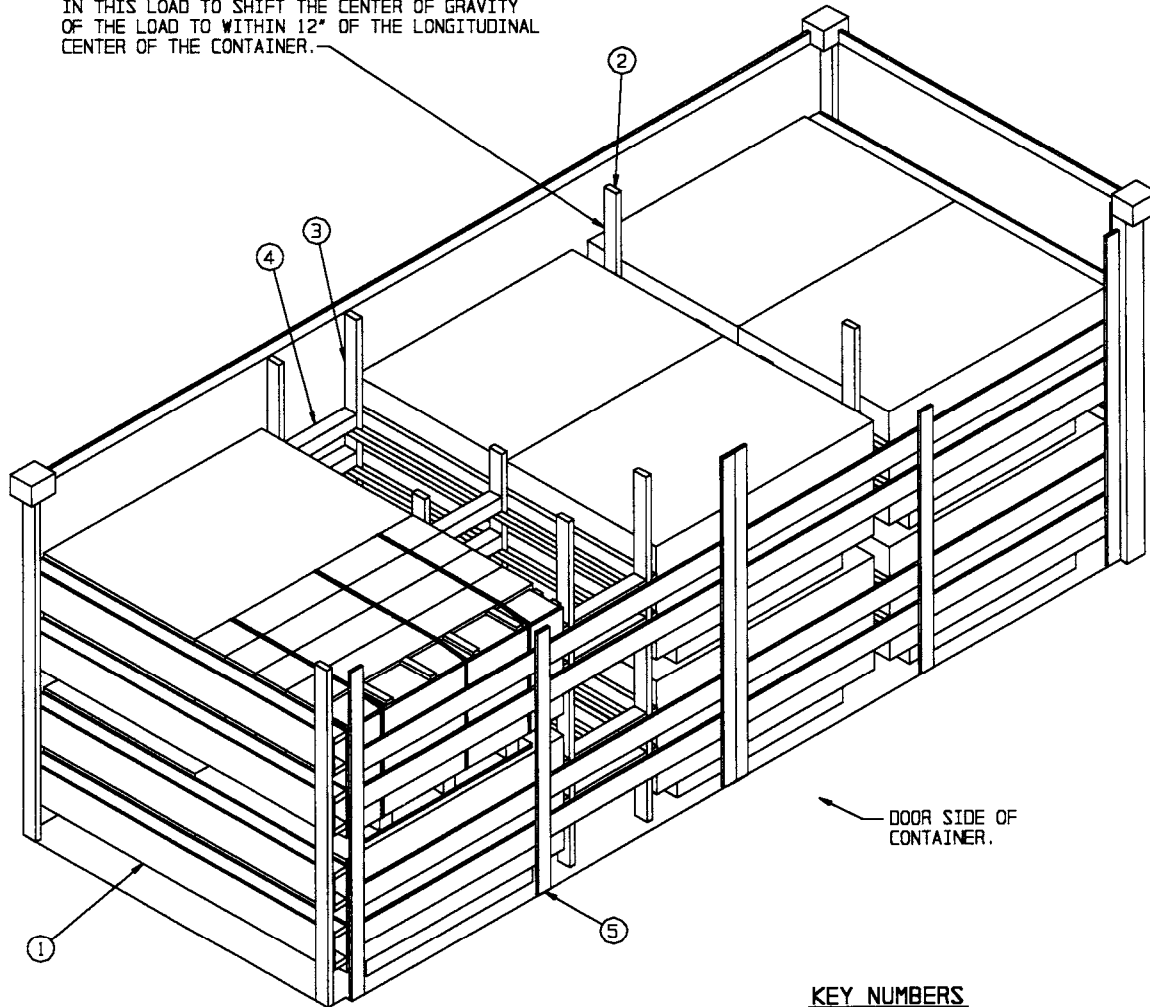
FOR A ONE HIGH LOAD, REDUCE THE SHORT VERTICAL PIECES TO 37" AND ELIMINATE THE TOP FOUR HORIZONTAL PIECES.



SIDE FILL ASSEMBLY B

FOR A ONE HIGH LOAD, REDUCE THE CENTER VERTICAL PIECE
TO 37" AND ELIMINATE THE TOP TWO HORIZONTAL PIECES.

NOTE THAT THE SPACER ASSEMBLY IS REQUIRED IN THIS LOAD TO SHIFT THE CENTER OF GRAVITY OF THE LOAD TO WITHIN 12" OF THE LONGITUDINAL CENTER OF THE CONTAINER.



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY E (2 REQD). SEE THE DETAIL ON PAGE 26 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② SPACER ASSEMBLY A (1 REQD). SEE THE DETAIL ON PAGE 27.
- ③ CENTER GATE C (2 REQD). SEE THE DETAIL ON PAGE 27.
- ④ STRUT, 4" X 4" BY CUT TO FIT (REF: 21") (12 REQD). TOENAIL TO THE VERTICAL PIECE OF THE CENTER GATE, PIECE MARKED ③, W/2-12d NAILS AT EACH END. SEE THE "BEVEL-CUT" DETAIL ON PAGE 73.
- ⑤ SIDE FILL ASSEMBLY C (2 REQD). SEE THE DETAIL ON PAGE 27.

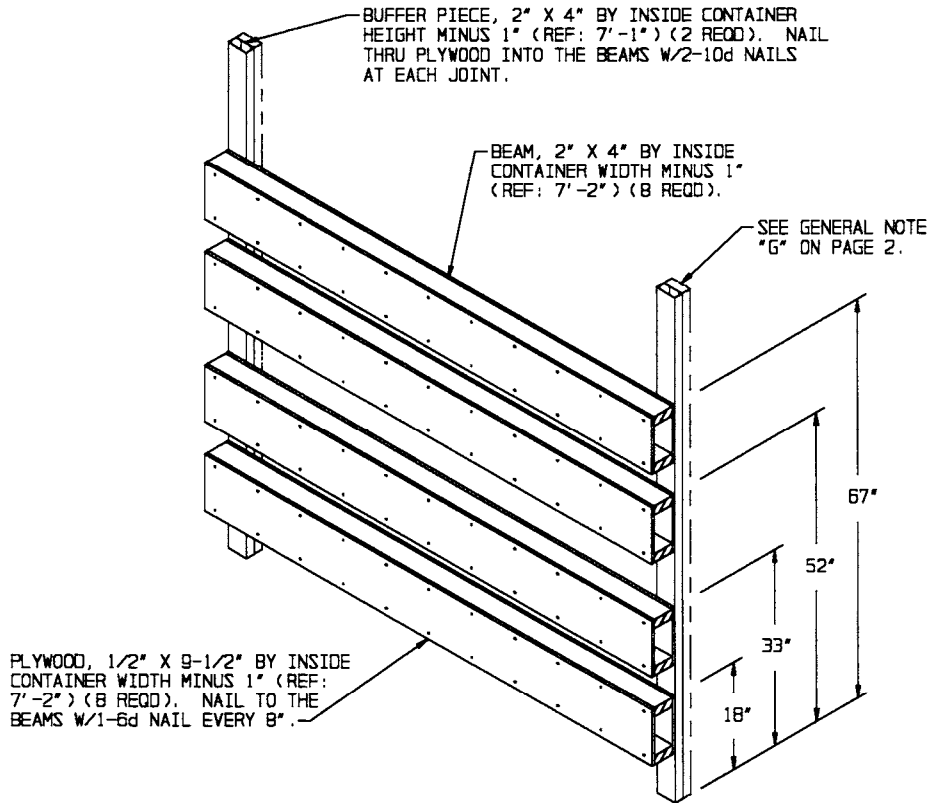
RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES E, TWO CENTER GATES C, ONE SPACER ASSEMBLY A AND TWO SIDE FILL ASSEMBLIES C.
2. INSTALL ONE END BLOCKING ASSEMBLY E AND LOAD FOUR PALLET UNITS.
3. REPEAT STEP TWO.
4. INSTALL THE SPACER ASSEMBLY A AND LOAD FOUR PALLET UNITS.
5. INSTALL THE TWO CENTER GATES C AND THE 12 STRUTS.
6. INSTALL THE TWO SIDE FILL ASSEMBLIES C.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	39	13
1" X 6"	74	37
2" X 2"	58	20
2" X 4"	325	217
4" X 4"	21	28
NAILS	NO. REQD	POUNDS
6d (2")	424	2-1/2
10d (3")	224	3-1/2
12d (3-1/4")	48	1
PLYWOOD, 1/2"	90.78 SQ FT REQD	124.82 LBS

LOAD AS SHOWN

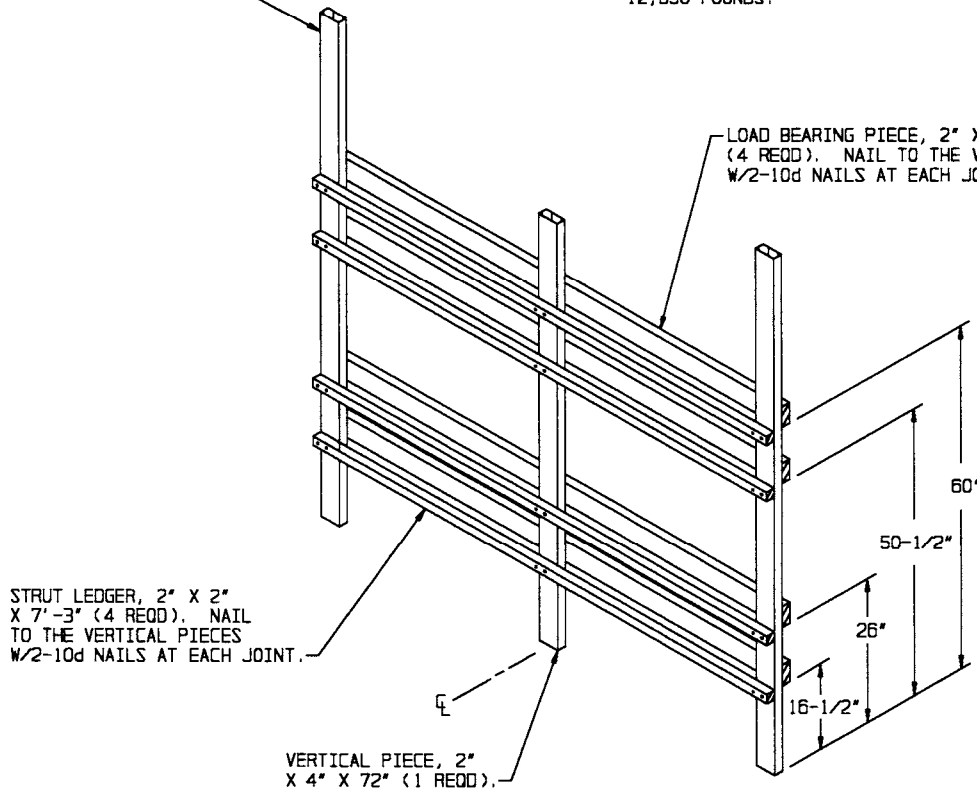
<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
PALLET UNIT	12	23,856 LBS
DUNNAGE		752 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		30,668 LBS (APPROX)



END BLOCKING ASSEMBLY E

NOTE: FOR ONE-HIGH LOAD, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES. A TWO LAYER LOAD MAY NOT EXCEED 25,300 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 12,650 POUNDS.

VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1" ON FAR SIDE OF CONTAINER, 7'-3" ON DOOR SIDE OF CONTAINER) (2 REQD).

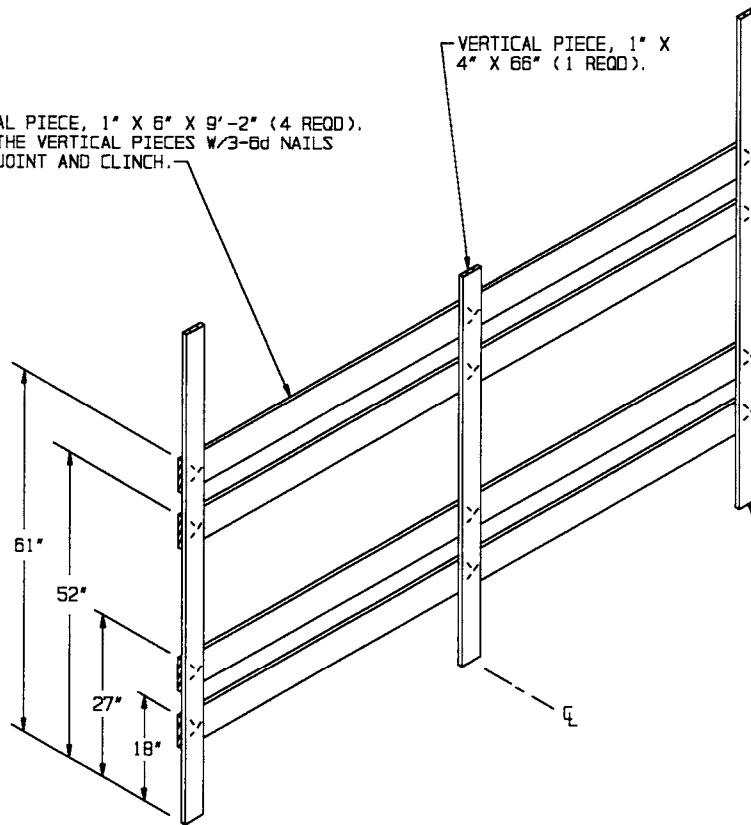


CENTER GATE C

FOR A ONE HIGH LOAD, REDUCE THE CENTER VERTICAL PIECE TO 34" AND ELIMINATE THE TOP TWO STRUT LEDGERS AND THE TOP TWO LOAD BEARING PIECES.

HORIZONTAL PIECE, 1" X 6" X 9'-2" (4 REQD).
NAIL TO THE VERTICAL PIECES W/3-6d NAILS
AT EACH JOINT AND CLINCH.

VERTICAL PIECE, 1" X 4" X 66" (1 REQD).



VERTICAL PIECE, 1" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 6'-11") (2 REQD).

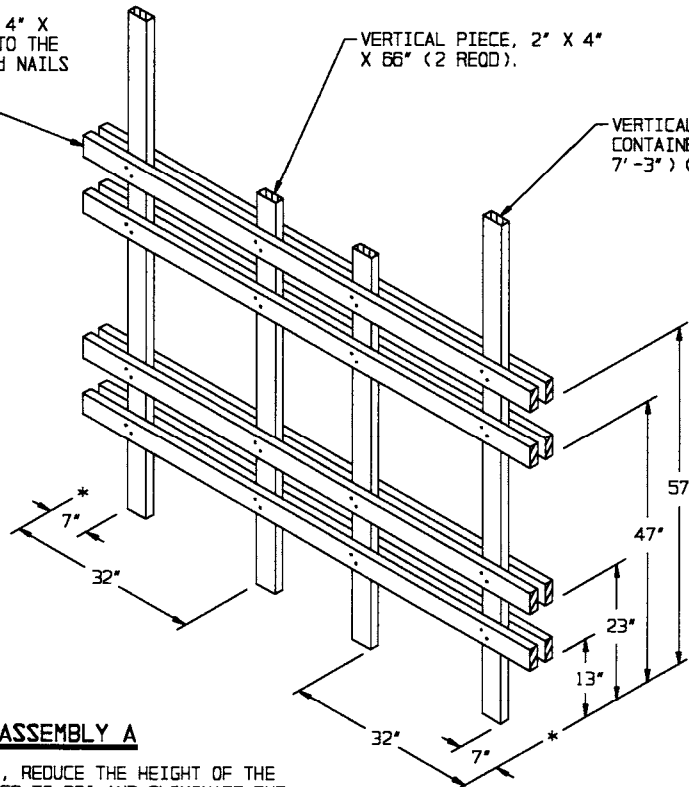
SIDE FILL ASSEMBLY C

FOR A ONE HIGH LOAD, AND ELIMINATE THE TOP TWO HORIZONTAL PIECES.

HORIZONTAL PIECE, 2" X 4" X 7'-2" (8 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.

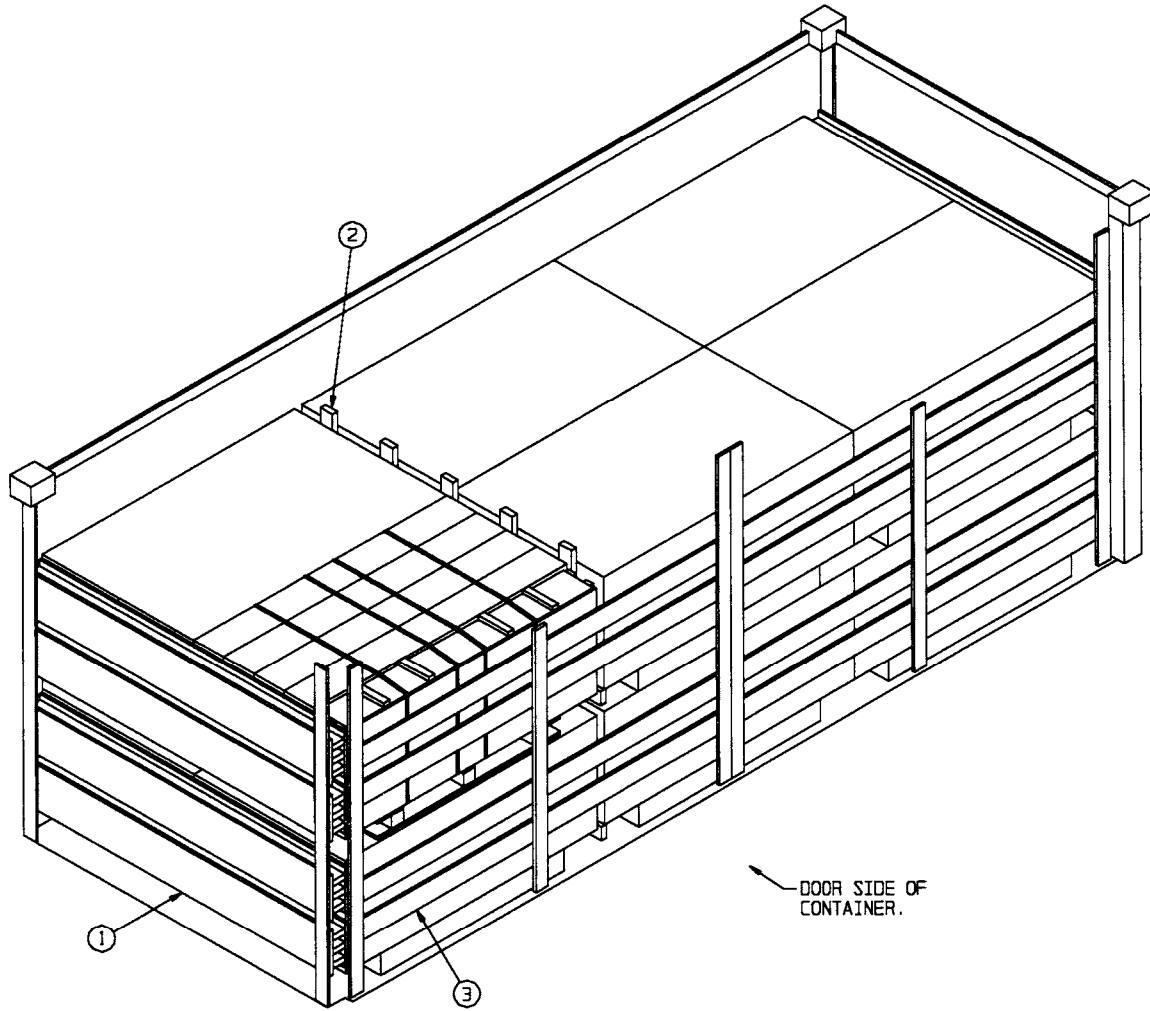
VERTICAL PIECE, 2" X 4" X 66" (2 REQD).

VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-3") (2 REQD).



SPACER ASSEMBLY A

FOR A ONE HIGH LOAD, REDUCE THE HEIGHT OF THE SHORT VERTICAL PIECES TO 29" AND ELIMINATE THE TOP FOUR HORIZONTAL PIECES.



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY F (2 REQD). SEE THE DETAIL ON PAGE 30 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② CENTER FILL ASSEMBLY C (1 REQD). SEE THE DETAIL ON PAGE 31.
- ③ SIDE FILL ASSEMBLY C (2 REQD). SEE THE DETAIL ON PAGE 27.

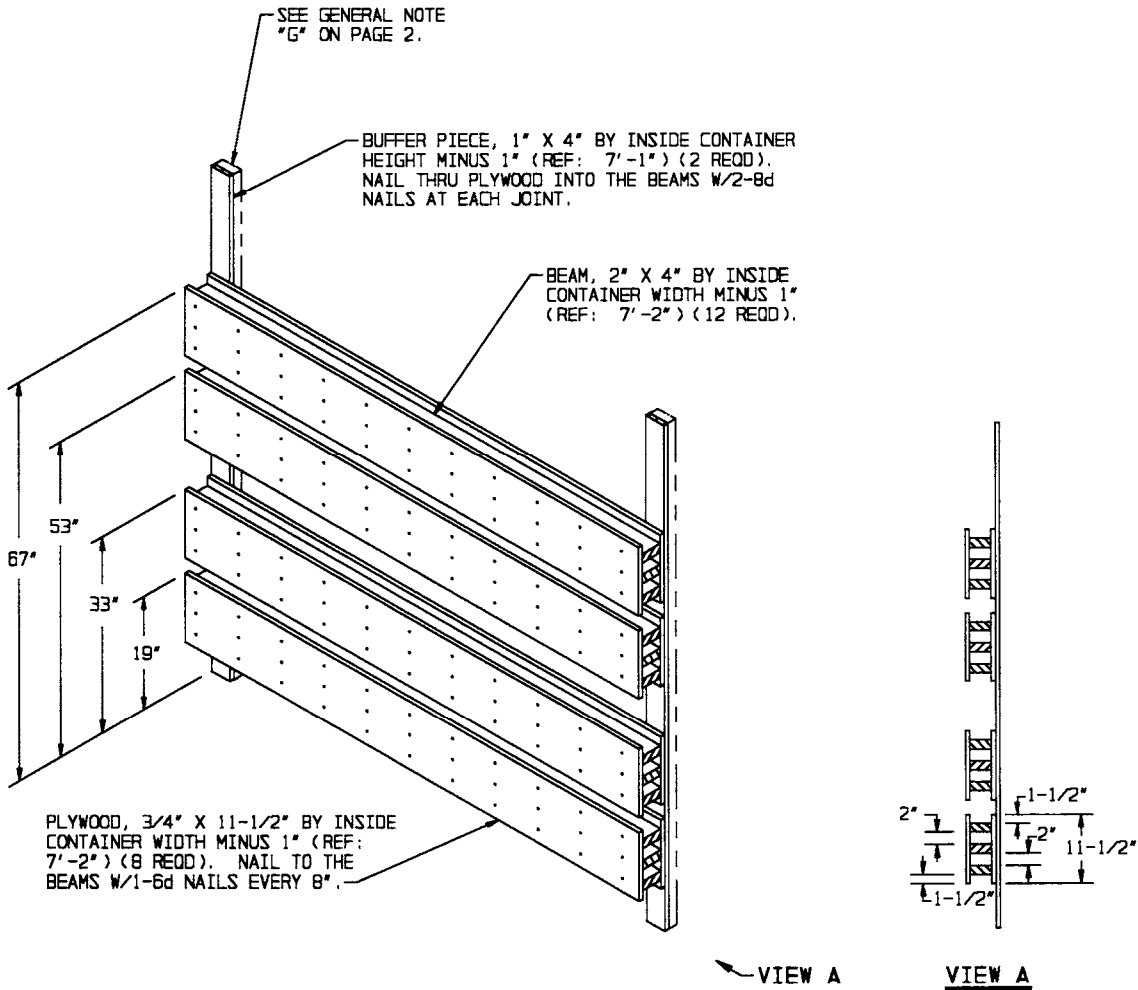
RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES F AND TWO SIDE FILL ASSEMBLIES C. ONE CENTER FILL ASSEMBLY C MAY BE PARTIALLY ASSEMBLED AT THIS TIME, BUT CANNOT BE COMPLETED UNTIL THE REQUIRED NUMBER OF VERTICAL PIECES IS DETERMINED.
2. INSTALL ONE END BLOCKING ASSEMBLY F AND LOAD FOUR PALLET UNITS.
3. REPEAT STEP 2.
4. LOAD FOUR PALLET UNITS.
5. MEASURE THE VOID BETWEEN THE PALLET UNITS AT THE CENTER OF THE CONTAINER AND COMPLETE THE ASSEMBLY AND INSTALLATION OF THE CENTER FILL ASSEMBLY C.
6. INSTALL THE TWO SIDE FILL ASSEMBLIES C.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	67	23
1" X 6"	74	37
2" X 4"	217	145
NAILS	NO. REQD	POUNDS
6d (2")	600	3-3/4
8d (2-1/2")	96	3/4
10d (3")	20	1/2
PLYWOOD, 3/4"	--- 109.89 SQ FT REQD	-- 226.65 LBS

LOAD AS SHOWN

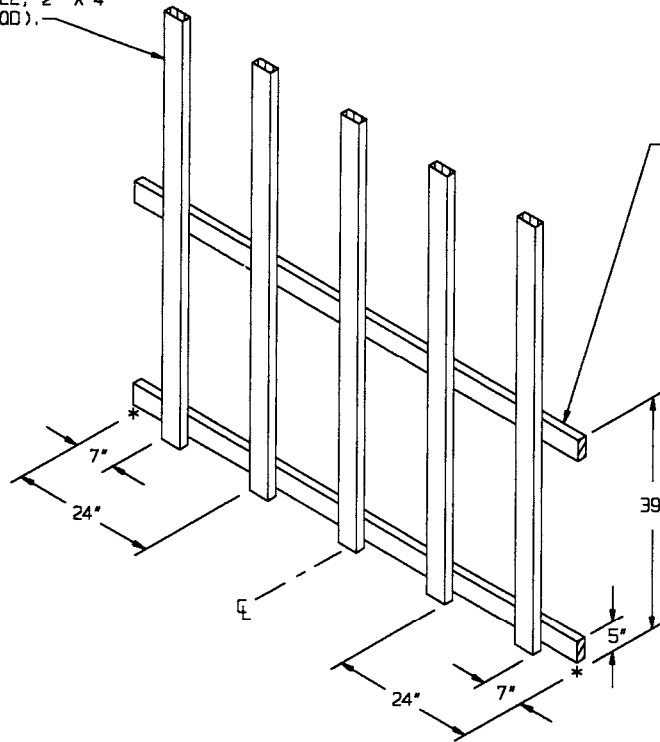
ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	----- 12 -----	30,288 LBS
DUNNAGE	-----	645 LBS
CONTAINER	-----	6,050 LBS
TOTAL WEIGHT -----		36,938 LBS (APPROX)



END BLOCKING ASSEMBLY F

NOTE: FOR ONE-HIGH LOAD, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES. A TWO LAYER LOAD MAY NOT EXCEED 44,120 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 22,060 POUNDS. SEE GENERAL NOTE "R" ON PAGE 3.

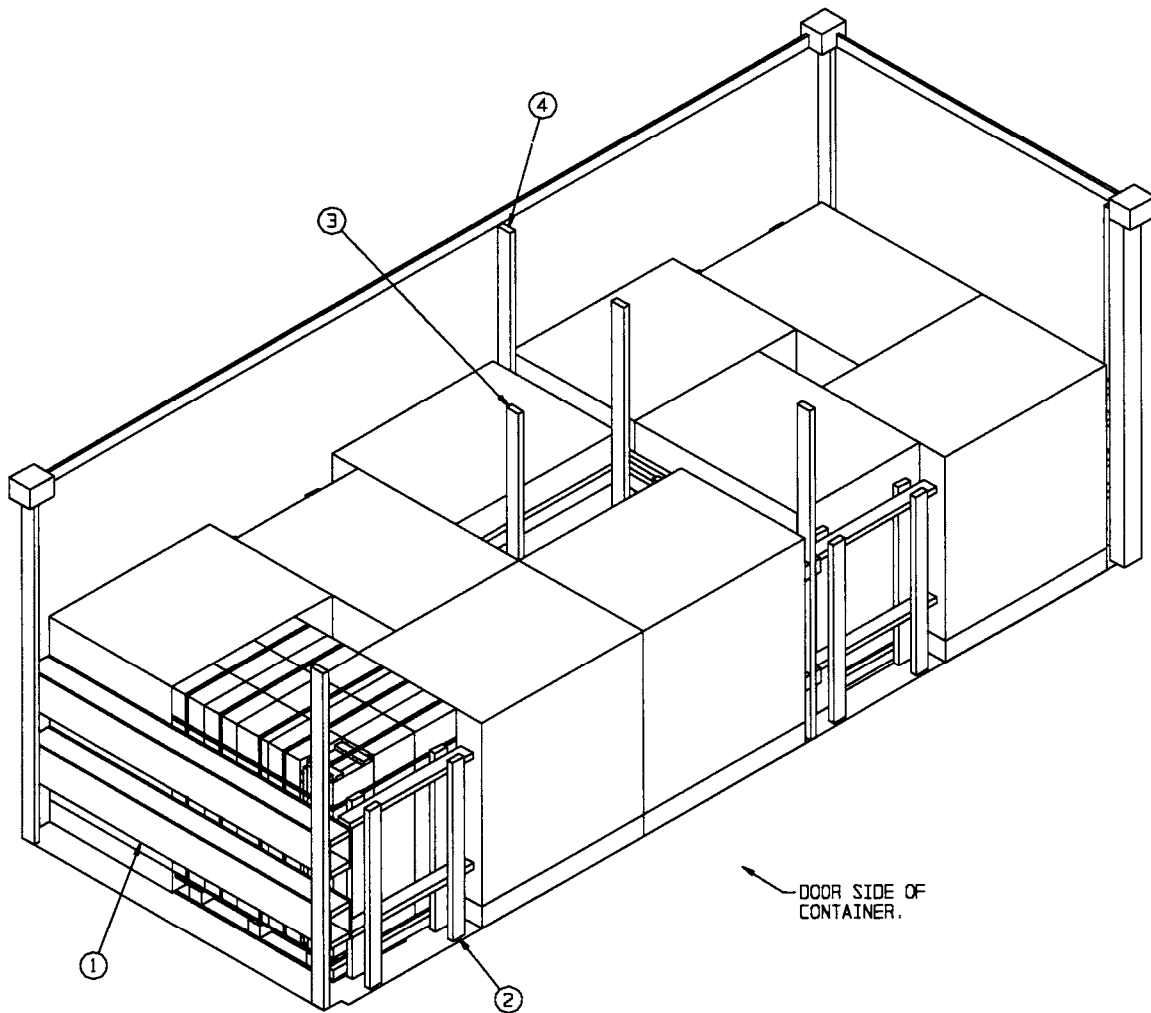
VERTICAL PIECE, 2" X 4"
X 72" (AS REQD).



TIE PIECE, 2" X 4" X 7'-2" (2 REQD).
NAIL TO THE VERTICAL PIECES W/2-10d
NAILS AT EACH JOINT.

CENTER FILL ASSEMBLY C

FOR A ONE HIGH LOAD, REDUCE THE VERTICAL PIECES TO 39".



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY G (2 REQD). SEE THE DETAIL ON PAGE 34 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② SIDE FILL ASSEMBLY D (4 REQD). SEE THE DETAIL ON PAGE 35.
- ③ CRIB FILL ASSEMBLY B (1 REQD). SEE THE DETAIL ON PAGE 35.
- ④ CENTER FILL ASSEMBLY D (1 REQD). SEE THE DETAIL ON PAGE 34.

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES G, FOUR SIDE FILL ASSEMBLIES D AND ONE CRIB FILL ASSEMBLY B. ONE CENTER FILL ASSEMBLY D MAY BE PARTIALLY ASSEMBLED AT THIS TIME BUT CANNOT BE COMPLETED UNTIL THE REQUIRED NUMBER OF VERTICAL PIECES IS DETERMINED.
2. INSTALL ONE END BLOCKING ASSEMBLY G AND LOAD TWO PALLET UNITS.
3. INSTALL ONE SIDE FILL ASSEMBLY D AND LOAD TWO PALLET UNITS.
4. INSTALL ONE END BLOCKING ASSEMBLY G, ONE SIDE FILL ASSEMBLY D AND LOAD FOUR PALLET UNITS.
5. LOAD ONE PALLET UNIT.
6. INSTALL THE CRIB FILL ASSEMBLY B.
7. LOAD ONE PALLET UNIT.
8. MEASURE THE VOID BETWEEN THE PALLET UNITS AT THE CENTER OF THE CONTAINER AND COMPLETE THE CONSTRUCTION AND INSTALLATION OF THE CENTER FILL ASSEMBLY D.
9. INSTALL REMAINING TWO SIDE FILL ASSEMBLIES D.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	24	8
2" X 3"	12	6
2" X 4"	186	124
2" X 6"	81	81
NAILS	NO. REQD	POUNDS
6d (2")	208	1-1/4
10d (3")	192	3
PLYWOOD, 1/2"	45.39 SQ FT REQD	62.41 LBS

LOAD AS SHOWN

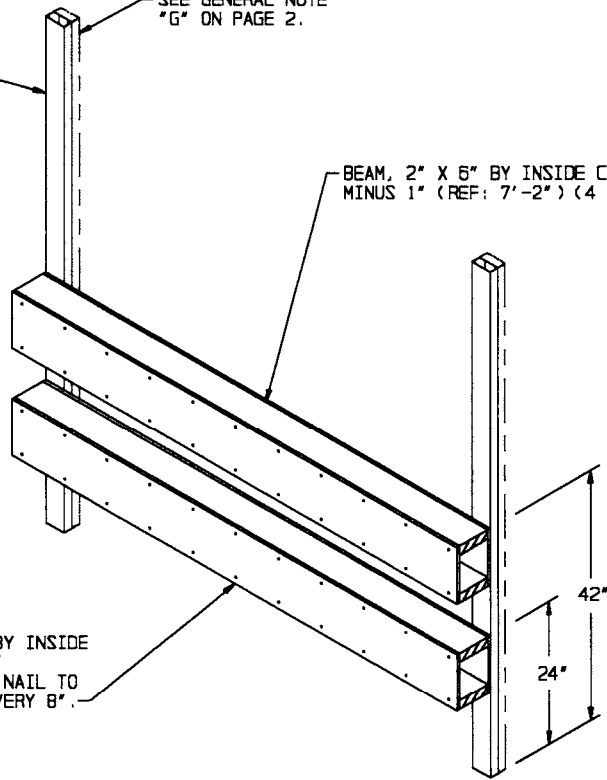
ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	10	21,880 LBS
DUNNAGE		505 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		28,435 LBS (APPROX)

BUFFER PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1") (2 REQD). NAIL THRU PLYWOOD INTO THE BEAMS W/2-10d NAILS AT EACH JOINT.

SEE GENERAL NOTE "G" ON PAGE 2.

BEAM, 2" X 6" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (4 REQD).

PLYWOOD, 1/2" X 9-1/2" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (4 REQD). NAIL TO THE BEAMS W/1-6d NAIL EVERY 8".



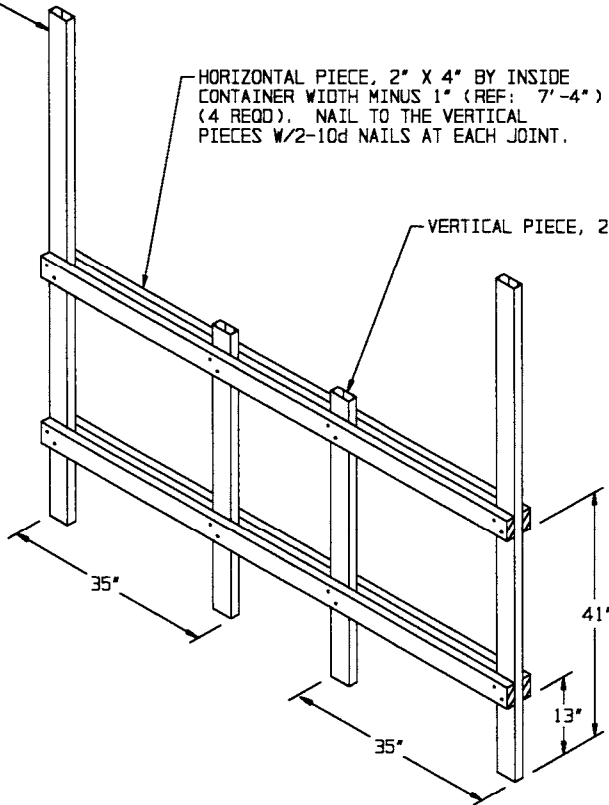
END BLOCKING ASSEMBLY G

A ONE LAYER LOAD MAY NOT EXCEED 22,800 POUNDS.

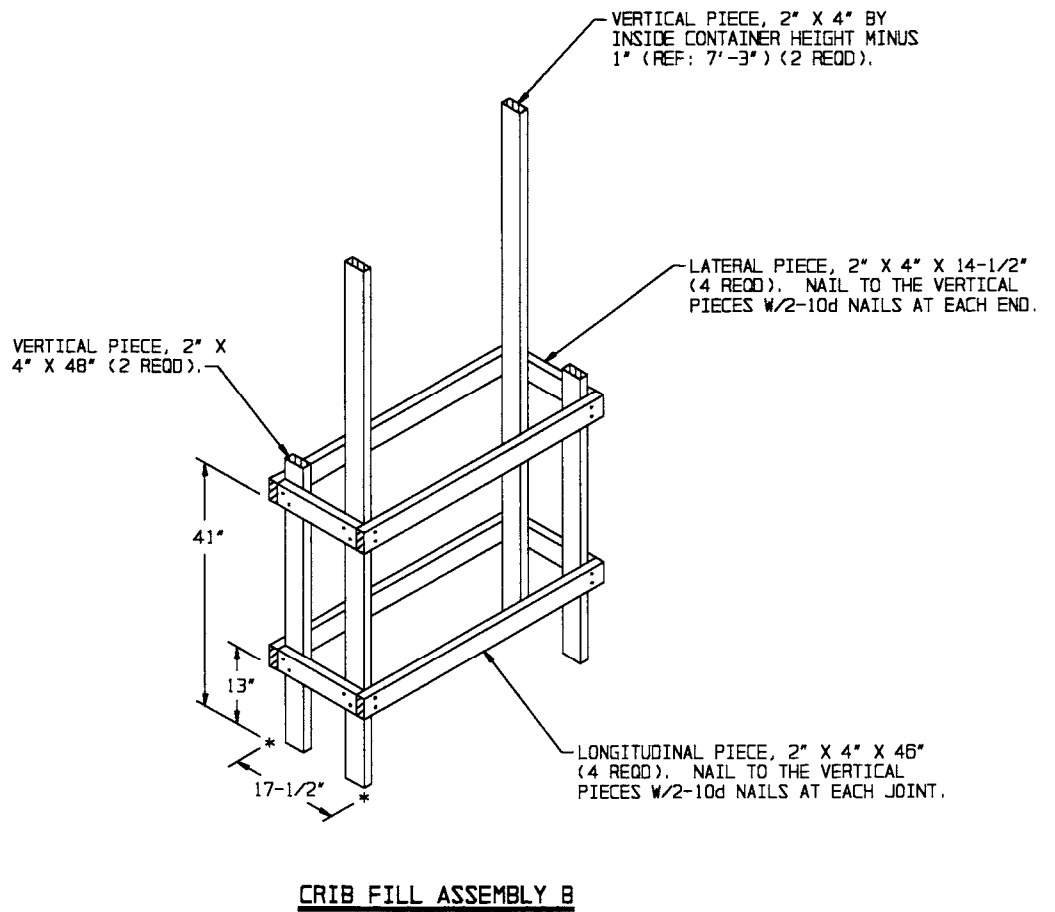
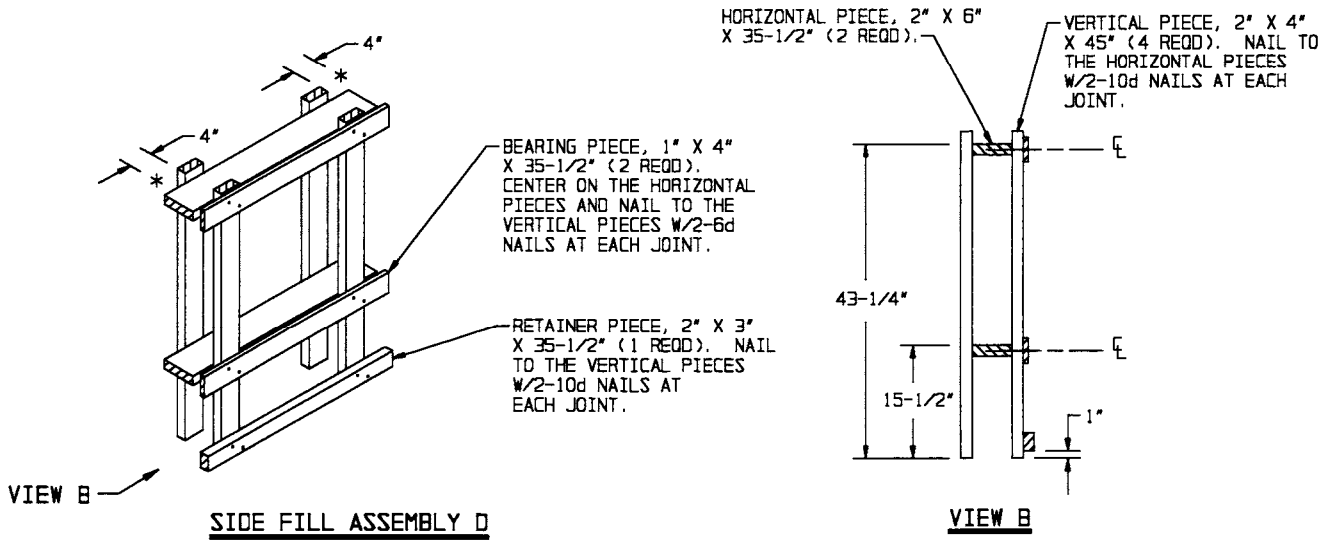
VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1" ON FAR SIDE OF CONTAINER AND 6'-11" ON DOOR SIDE OF CONTAINER) (AS REQD).

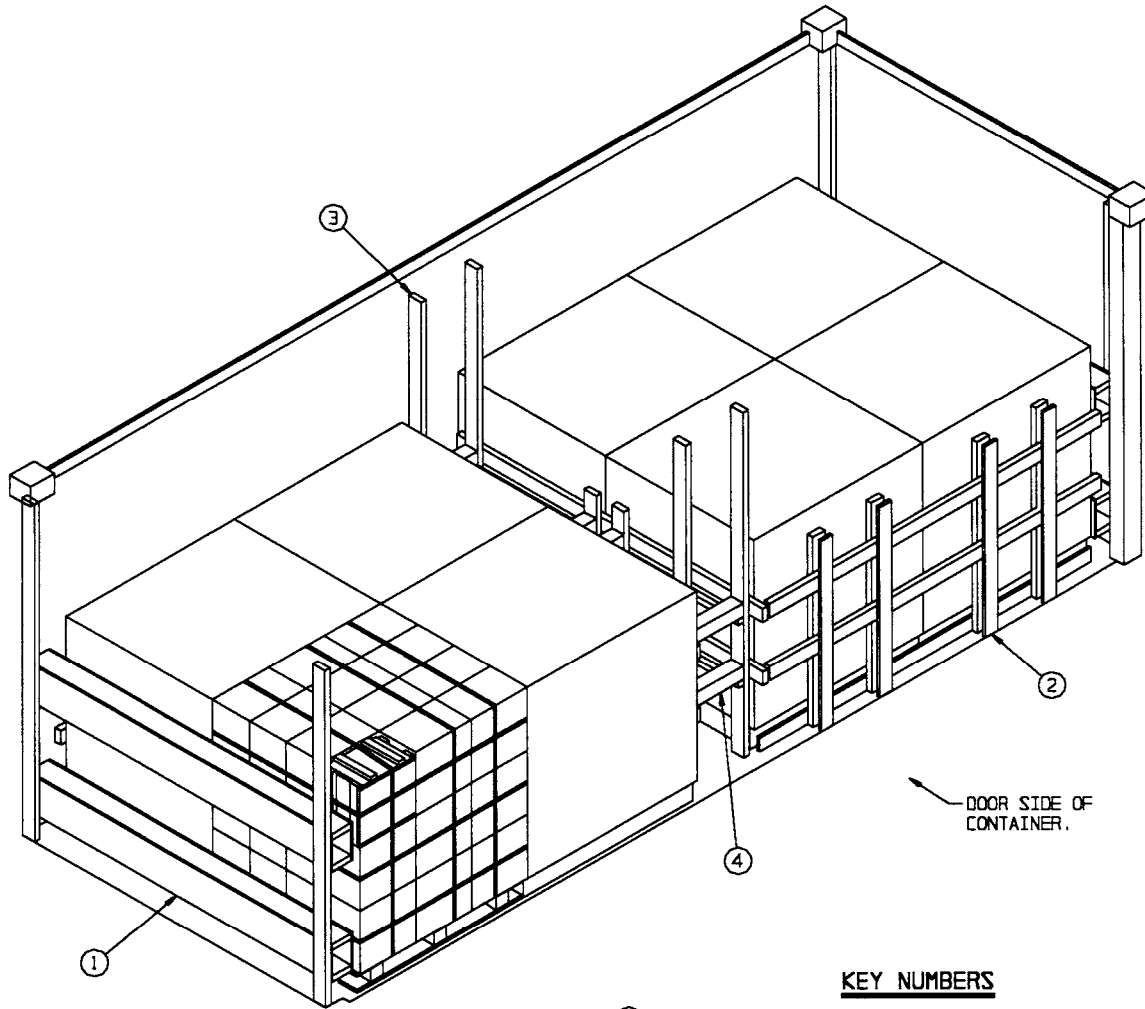
HORIZONTAL PIECE, 2" X 4" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-4") (4 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.

VERTICAL PIECE, 2" X 4" X 48" (AS REQD).



CENTER FILL ASSEMBLY D





ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY H (2 REQD). SEE THE DETAIL ON PAGE 38 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② SIDE FILL ASSEMBLY E (2 REQD). SEE THE DETAIL ON PAGE 39.
- ③ CENTER GATE D (2 REQD). SEE THE DETAIL ON PAGE 38.
- ④ STRUT, 4" X 4" BY CUT TO FIT (REF: 15") (8 REQD). TOENAIL TO PIECES MARKED ③ W/2-12d NAILS AT EACH END. SEE THE "BEVEL-CUT" DETAIL ON PAGE 73.

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES H, TWO SIDE FILL ASSEMBLIES E AND TWO CENTER GATES D.
2. INSTALL ONE END BLOCKING ASSEMBLY H AND LOAD FOUR PALLET UNITS.
3. INSTALL ONE SIDE FILL ASSEMBLY E.
4. INSTALL ONE END BLOCKING ASSEMBLY H AND ONE SIDE FILL ASSEMBLY E, AND LOAD FOUR PALLET UNITS.
5. INSTALL THE TWO CENTER GATES D AND THE EIGHT STRUTS.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	48	16
2" X 2"	27	9
2" X 4"	165	110
2" X 6"	58	58
4" X 4"	10	14
NAILS	NO. REQD	POUNDS
6d (2")	224	1-1/2
10d (3")	128	2
12d(3-1/4")	32	3/4
PLYWOOD, 1/2" - - - 45.39 SQ FT REQD - - 62.41 LBS		

LOAD AS SHOWN

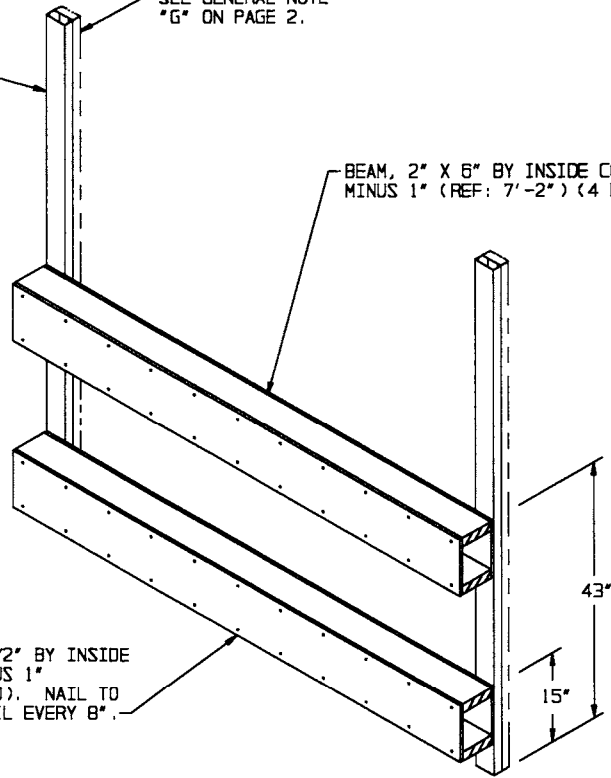
<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
PALLET UNIT - - - - -	8 - - - - -	21,432 LBS
DUNNAGE - - - - -	- - - - -	481 LBS
CONTAINER - - - - -	- - - - -	6,050 LBS
TOTAL WEIGHT - - - - -		27,963 LBS (APPROX)

BUFFER PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1") (2 REQD). NAIL THRU PLYWOOD INTO THE BEAMS W/2-10d NAILS AT EACH JOINT.

SEE GENERAL NOTE "G" ON PAGE 2.

BEAM, 2" X 6" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (4 REQD).

PLYWOOD, 1/2" X 9-1/2" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (4 REQD). NAIL TO THE BEAMS W/1-6d NAIL EVERY 8".



END BLOCKING ASSEMBLY H

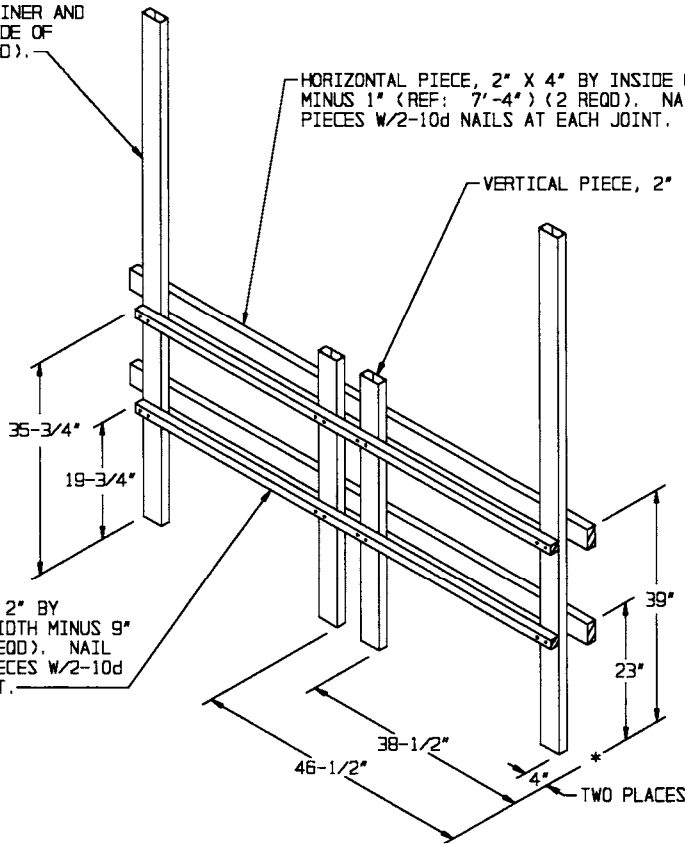
A ONE LAYER LOAD MAY NOT EXCEED 22,800 POUNDS.

VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1" ON FAR SIDE OF CONTAINER AND 6'-11" ON DOOR SIDE OF CONTAINER) (2 REQD).

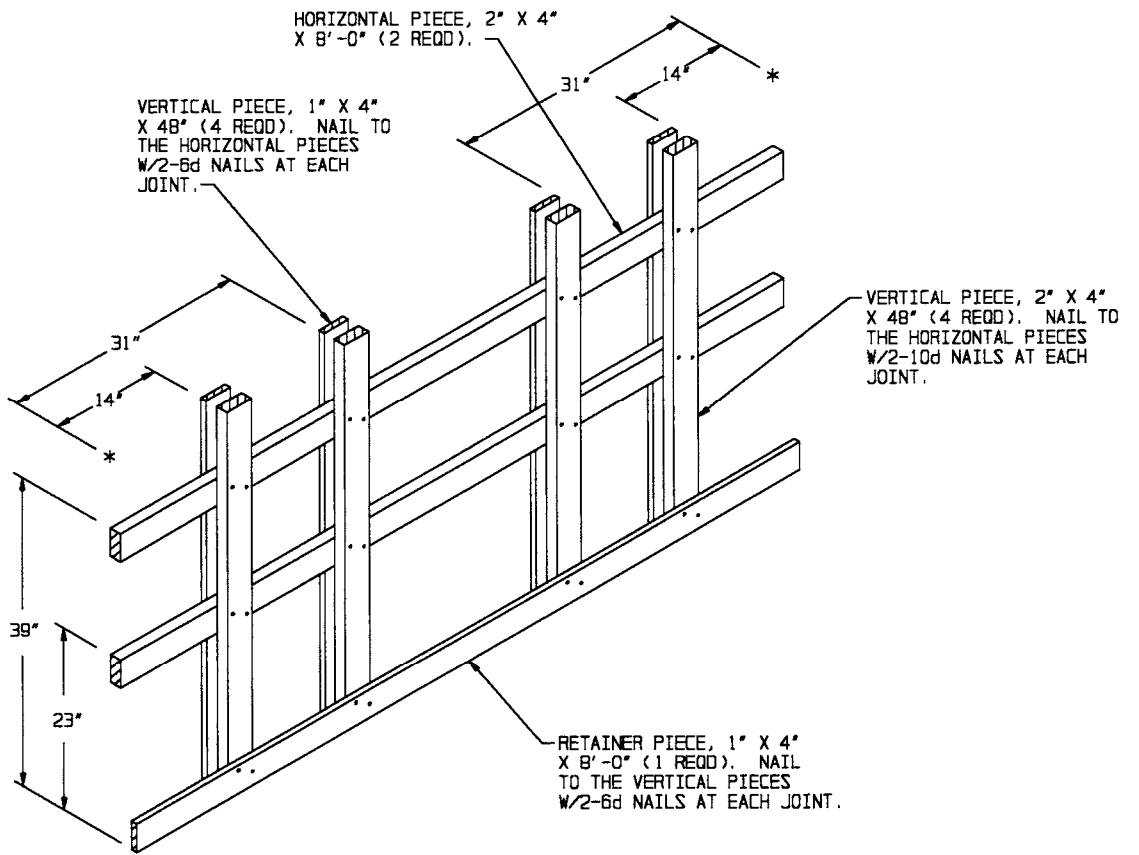
HORIZONTAL PIECE, 2" X 4" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-4") (2 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.

VERTICAL PIECE, 2" X 4" X 45" (2 REQD).

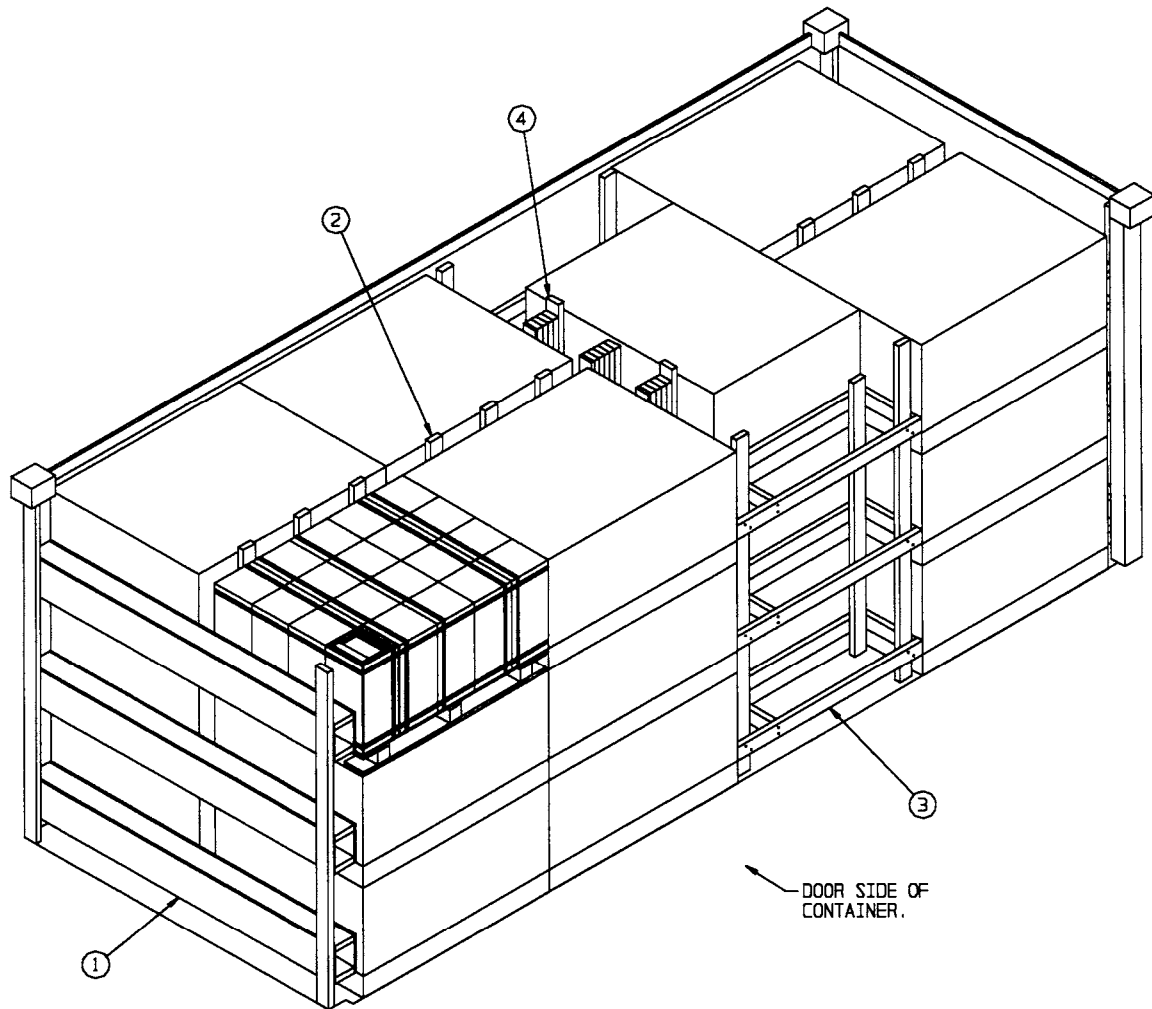
STRUT LEDGER, 2" X 2" BY INSIDE CONTAINER WIDTH MINUS 9" (REF: 6'-8") (2 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.



CENTER GATE D



SIDE FILL ASSEMBLY E



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY J (2 REQD). SEE THE DETAIL ON PAGE 42 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② CRIB FILL ASSEMBLY C (3 REQD). SEE THE DETAIL ON PAGE 43.
- ③ FILLER ASSEMBLY B (2 REQD). SEE THE DETAIL ON PAGE 43.
- ④ CENTER FILL ASSEMBLY E (1 REQD). SEE THE DETAIL ON PAGE 42.

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES J, TWO FILLER ASSEMBLIES B AND THREE CRIB FILL ASSEMBLIES B. ONE CENTER FILL ASSEMBLY E MAY BE PARTIALLY ASSEMBLED AT THIS TIME, BUT CANNOT BE COMPLETED UNTIL THE REQUIRED NUMBER OF VERTICAL PIECES IS DETERMINED.
2. INSTALL ONE END BLOCKING ASSEMBLY J.
3. LOAD SIX PALLET UNITS AND INSTALL ONE CRIB FILL ASSEMBLY B.
4. REPEAT STEPS 2 AND 3.
5. REPEAT STEP 3.
6. INSTALL ONE FILLER ASSEMBLY B.
7. LOAD THREE PALLET UNITS.
8. MEASURE THE VOID BETWEEN THE PALLET UNITS AT THE CENTER OF THE CONTAINER AND COMPLETE THE ASSEMBLY AND INSTALLATION OF THE CENTER FILL ASSEMBLY E.
9. INSTALL SECOND FILLER ASSEMBLY E.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	21	7
2" X 4"	392	262
2" X 6"	86	86
NAILS	NO. REQD	POUNDS
6d (2")	285	1-3/4
10d (3")	342	5-1/2
PLYWOOD, 1/2" - - -	68.09 SQ FT REQD	- - 93.62 LBS

LOAD AS SHOWN

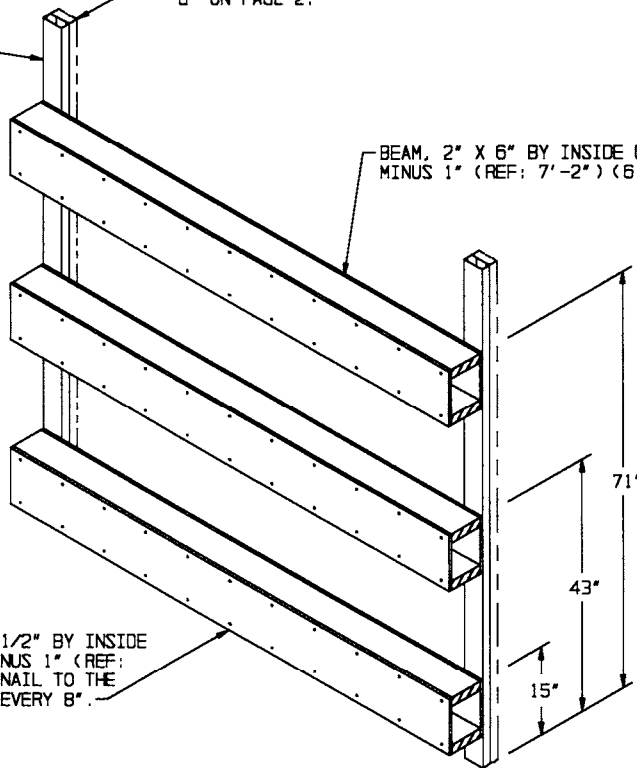
ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	21	28,917 LBS
DUNNAGE		811 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		35,778 LBS (APPROX)

BUFFER PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1") (2 REQD). NAIL THRU PLYWOOD INTO THE BEAMS W/2-10d NAILS AT EACH JOINT.

SEE GENERAL NOTE "G" ON PAGE 2.

BEAM, 2" X 6" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (6 REQD).

PLYWOOD, 1/2" X 9-1/2" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (6 REQD). NAIL TO THE BEAMS W/1-6d NAIL EVERY 8".



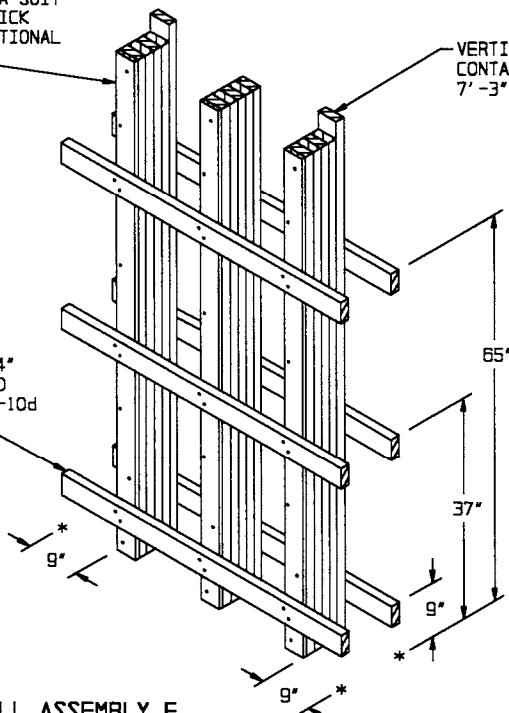
END BLOCKING ASSEMBLY J

NOTE: FOR TWO-HIGH LOAD, ELIMINATE THE TOP BOX BEAM ASSEMBLY, AND FOR A ONE HIGH LOAD, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES. A THREE LAYER LOAD MAY NOT EXCEED 34,200 POUNDS, A TWO LAYER LOAD MAY NOT EXCEED 22,800 POUNDS, AND A ONE LAYER LOAD MAY NOT EXCEED 11,400 POUNDS.

VERTICAL PIECE, 4" WIDE BY 7'-0" LONG MATERIAL (AS REQD). LAMINATE THE FIRST PIECE TO THE TALL VERTICAL PIECE OR TO THE SECOND PIECE W/7 NAILS OF A SUITABLE SIZE (10d NAILS FOR 2" THICK MATERIAL). LAMINATE EACH ADDITIONAL PIECE IN A LIKE MANNER.

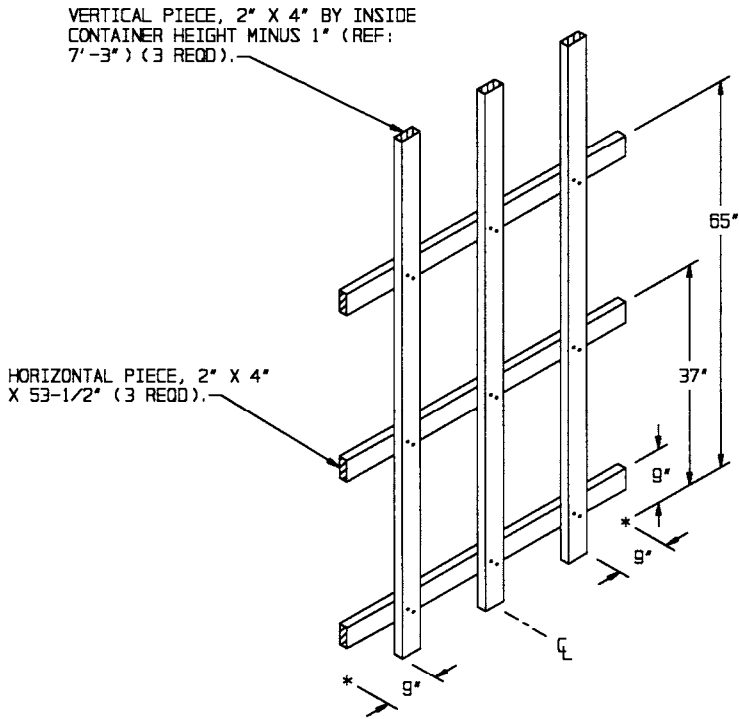
VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-3") (2 REQD).

HORIZONTAL PIECE, 2" X 4" X 54" (6 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.



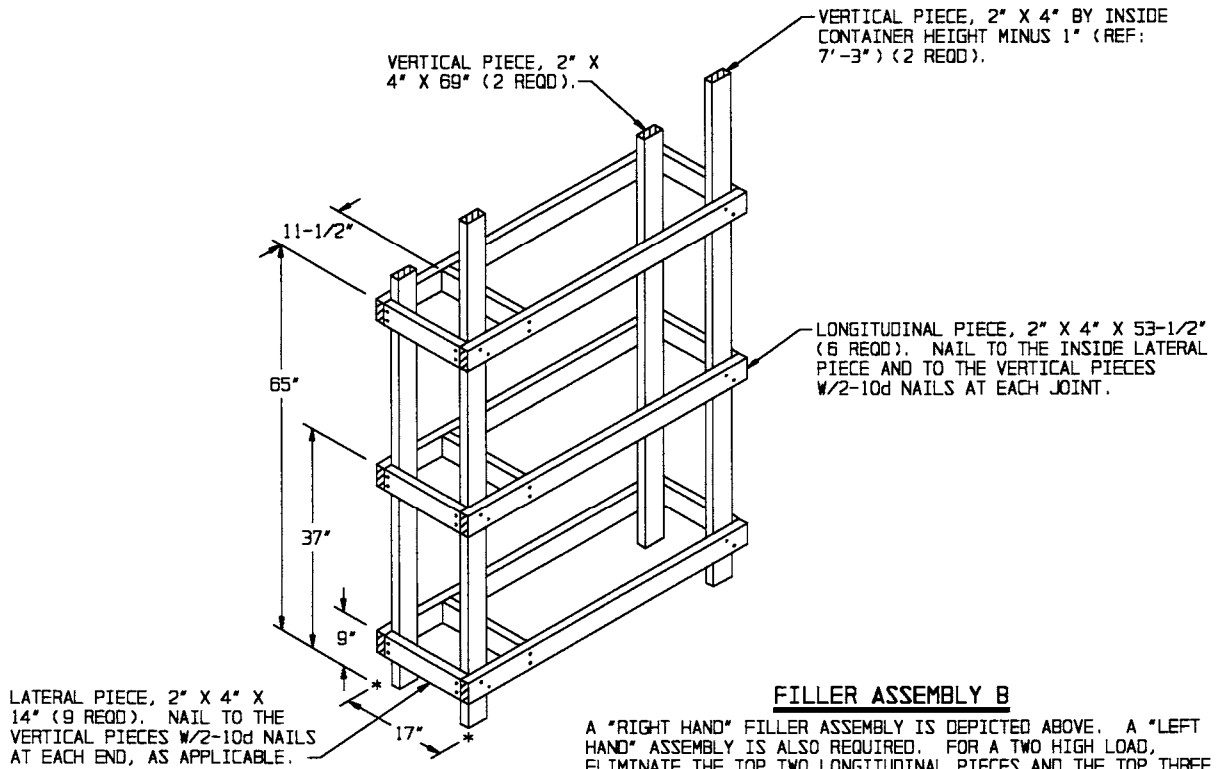
CENTER FILL ASSEMBLY E

FOR A TWO HIGH LOAD, REDUCE THE SHORT VERTICAL PIECES TO 56" AND ELIMINATE THE TOP TWO HORIZONTAL PIECES. FOR A ONE HIGH LOAD, REDUCE THE SHORT VERTICAL PIECES TO 30", ELIMINATE THE TOP TWO HORIZONTAL PIECES AND LOWER THE MIDDLE TWO HORIZONTAL PIECES TO 27".



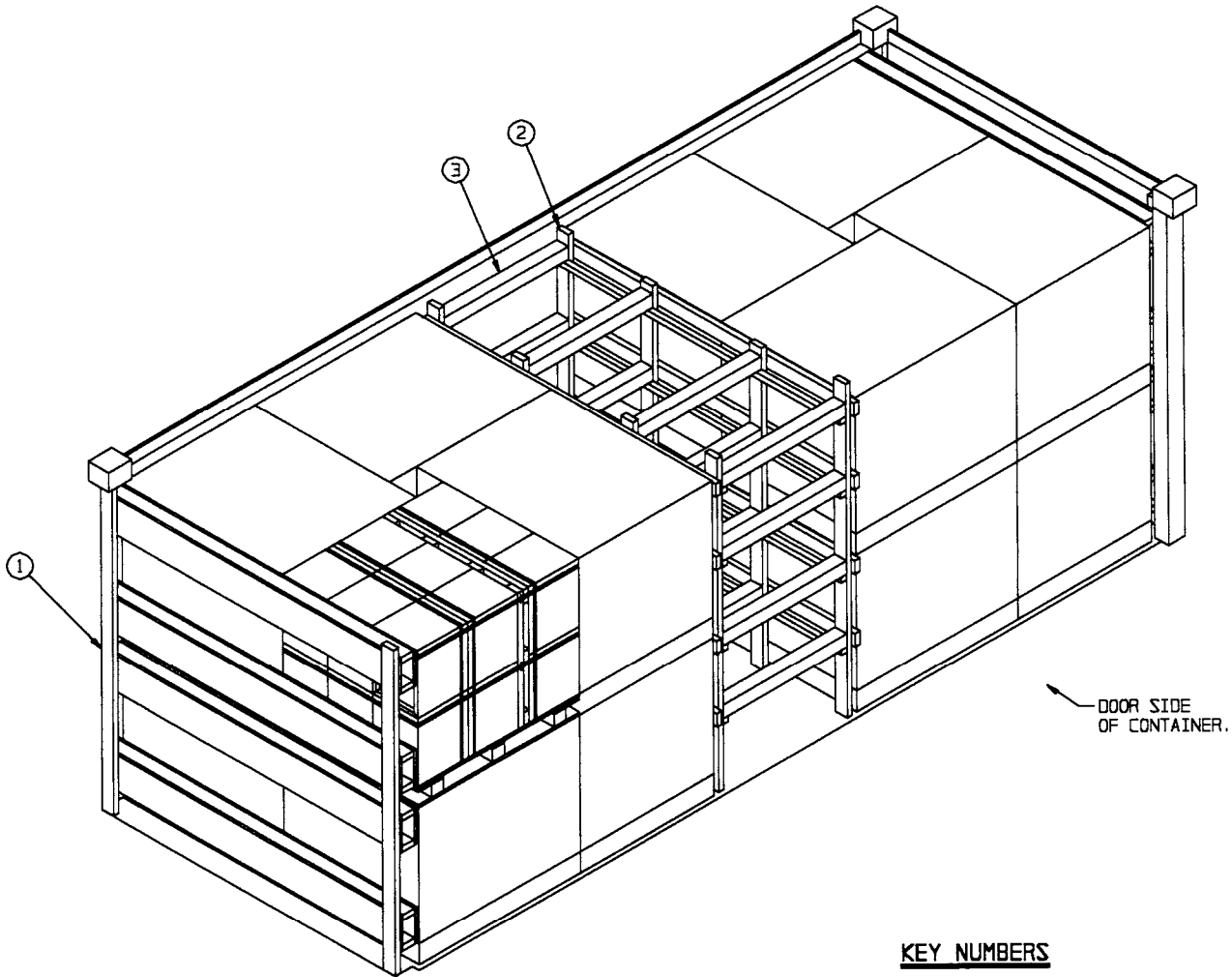
CRIB FILL ASSEMBLY C

FOR A TWO HIGH LOAD, ELIMINATE THE TOP HORIZONTAL
PIECE, AND FOR A ONE HIGH LOAD, ELIMINATE THE TOP
HORIZONTAL PIECE AND LOWER THE MIDDLE HORIZONTAL
PIECE TO 27"



FILLER ASSEMBLY B

A "RIGHT HAND" FILLER ASSEMBLY IS DEPICTED ABOVE. A "LEFT
HAND" ASSEMBLY IS ALSO REQUIRED. FOR A TWO HIGH LOAD,
ELIMINATE THE TOP TWO LONGITUDINAL PIECES AND THE TOP THREE
LATERAL PIECES, AND REDUCE THE SHORT VERTICAL PIECES TO 43".
FOR A ONE HIGH LOAD, ELIMINATE THE TOP TWO LONGITUDINAL
PIECES AND THE TOP THREE LATERAL PIECES, REDUCE THE SHORT
VERTICAL PIECES TO 33", AND MOVE THE MIDDLE TWO LONGITUDINAL
PIECES AND THE MIDDLE THREE LATERAL PIECES TO 27".



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY K (2 REQD). SEE THE DETAIL ON PAGE 46 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② CENTER GATE E (2 REQD). SEE THE DETAIL ON PAGE 47.
- ③ STRUT, 4" X 4" BY CUT TO FIT (REF: 37") (16 REQD). TOENAIL TO PIECES MARKED ② W/2-12d NAILS AT EACH END. SEE THE "BEVEL-CUT" DETAIL ON PAGE 73.

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES K AND TWO CENTER GATES E.
2. INSTALL ONE END BLOCKING ASSEMBLY K AND LOAD EIGHT PALLET UNITS.
3. REPEAT STEP TWO.
4. INSTALL THE TWO CENTER GATES E AND THE 16 STRUTS.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
2" X 2"	58	20
2" X 4"	258	172
4" X 4"	50	67
NAILS	NO. REQD	POUNDS
6d (2")	352	2-1/4
10d (3")	192	3
12d (3-1/4")	64	1-1/4
PLYWOOD, 3/4" - - -	90.78 SQ FT REQD - -	187.23 LBS

LOAD AS SHOWN

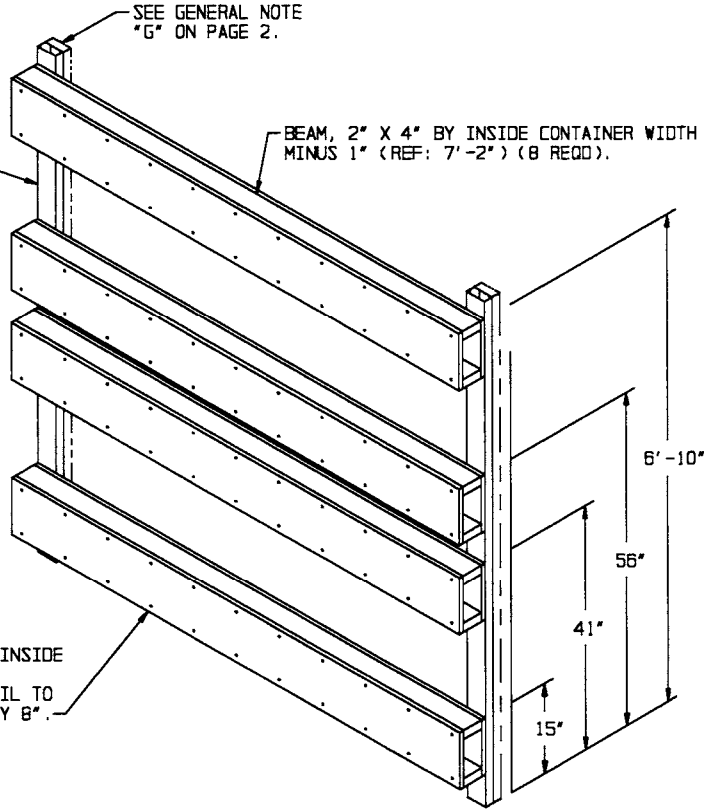
<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
PALLET UNIT - - - - -	16 - - - - -	32,816 LBS
DUNNAGE - - - - -	- - - - -	712 LBS
CONTAINER - - - - -	- - - - -	6,050 LBS
TOTAL WEIGHT - - - - -		39,578 LBS (APPROX)

BUFFER PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1") (2 REQD). NAIL THRU PLYWOOD INTO THE BEAMS W/2-10d NAILS AT EACH JOINT.

SEE GENERAL NOTE "G" ON PAGE 2.

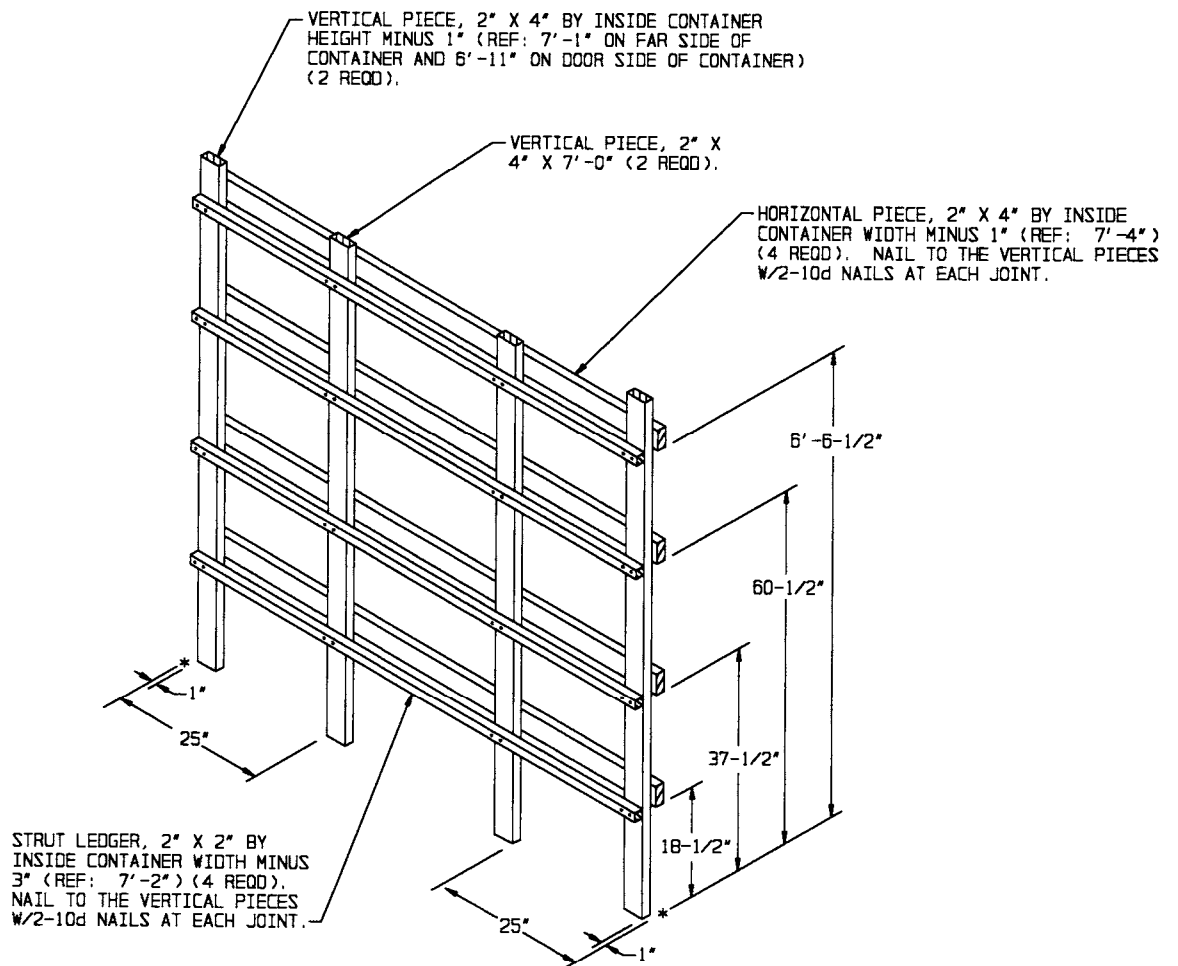
BEAM, 2" X 4" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (8 REQD).

PLYWOOD, 3/4" X 9-1/2" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (8 REQD). NAIL TO THE BEAMS W/1-6d NAIL EVERY 8".



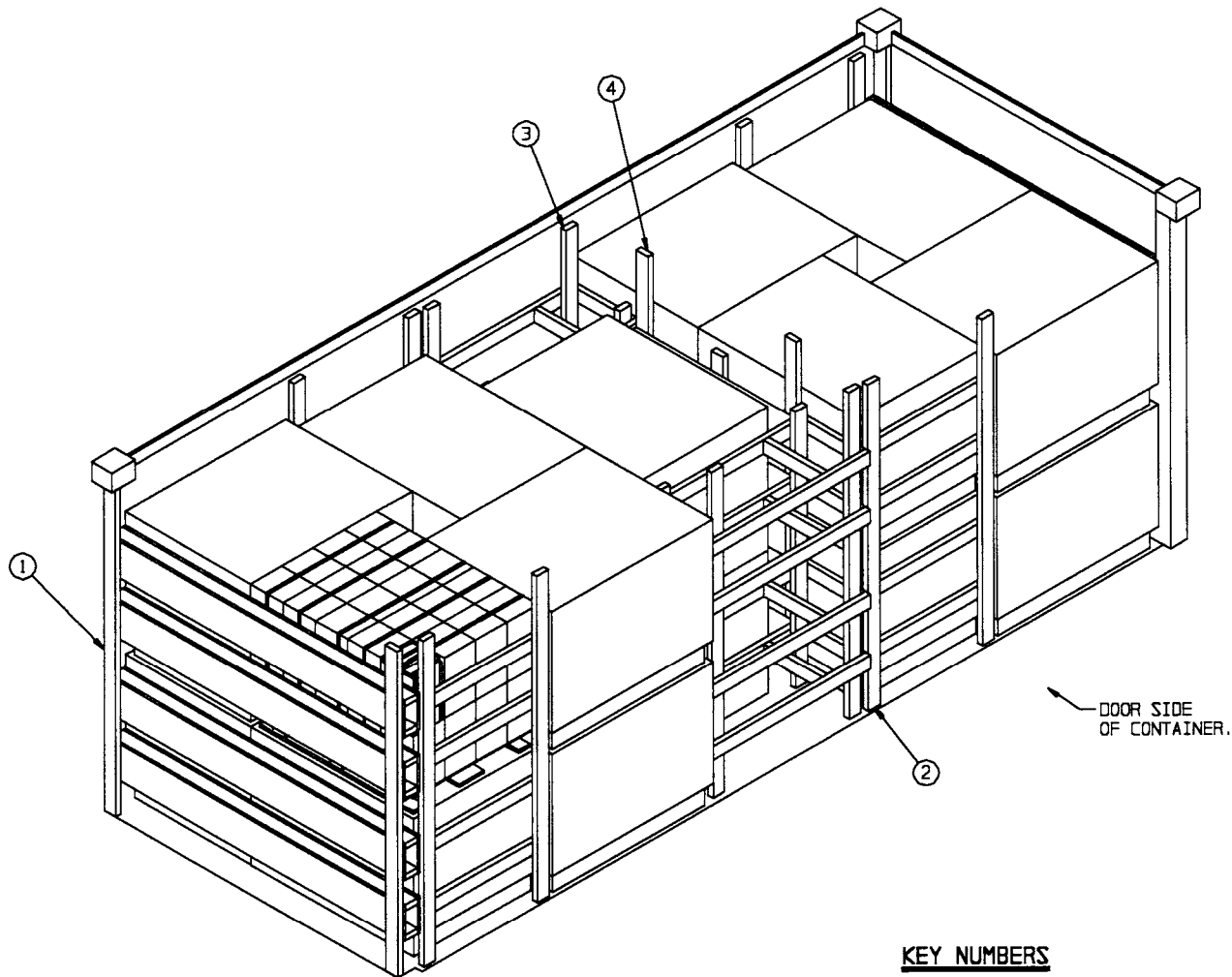
END BLOCKING ASSEMBLY K

NOTE: FOR ONE-HIGH LOAD, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES. A TWO LAYER LOAD MAY NOT EXCEED 25,260 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 17,630 POUNDS.



CENTER GATE E

FOR A ONE HIGH LOAD, REDUCE THE CENTER VERTICAL PIECE TO 48" AND ELIMINATE THE TOP TWO STRUT LEDGERS AND THE TOP TWO HORIZONTAL PIECES.



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY L (2 REQD). SEE THE DETAIL ON PAGE 50 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② SIDE FILL ASSEMBLY F (4 REQD). SEE THE DETAIL ON PAGE 51.
- ③ FILLER ASSEMBLY C (2 REQD). SEE THE DETAIL ON PAGE 51.
- ④ CENTER FILL ASSEMBLY F (1 REQD). SEE THE DETAIL ON PAGE 50.

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES L, FOUR SIDE FILL ASSEMBLIES F AND TWO FILLER ASSEMBLIES C. THE CENTER FILL ASSEMBLY F MAY BE PARTIALLY ASSEMBLED AT THIS TIME, BUT CANNOT BE COMPLETED UNTIL THE REQUIRED NUMBER OF VERTICAL PIECES OR SIZE OF HORIZONTAL PIECES IS DETERMINED.
2. INSTALL ONE END BLOCKING ASSEMBLY L AND LOAD FOUR PALLET UNITS.
3. INSTALL ONE SIDE FILL ASSEMBLY F AND LOAD FOUR PALLET UNITS.
4. INSTALL ONE END BLOCKING ASSEMBLY L AND ONE SIDE FILL ASSEMBLY F, AND LOAD EIGHT PALLET UNITS.
5. INSTALL ONE FILLER ASSEMBLY C AND LOAD TWO PALLET UNITS.
6. MEASURE THE VOID BETWEEN THE PALLET UNITS AT THE CENTER OF THE CONTAINER AND COMPLETE AND INSTALL THE CENTER FILL ASSEMBLY F.
7. INSTALL THE REMAINING FILLER ASSEMBLY C AND THE TWO REMAINING SIDE FILL ASSEMBLIES F.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	438	292
2" X 8"	16	22
NAILS	NO. REQD	POUNDS
6d (2")	352	2-1/4
10d (3")	336	5-1/4
PLYWOOD, 3/4" - - -	90.78 SQ FT REQD - -	187.23 LBS

LOAD AS SHOWN

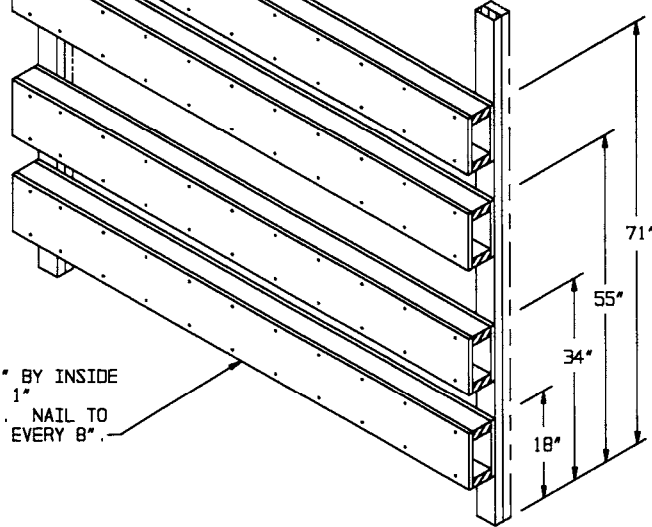
ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT - - - - -	18 - - - - -	27,936 LBS
DUNNAGE - - - - -	- - - - -	823 LBS
CONTAINER - - - - -	- - - - -	6,050 LBS
TOTAL WEIGHT - - - - -		34,809 LBS (APPROX)

BUFFER PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1") (2 REQD). NAIL THRU PLYWOOD INTO THE BEAMS W/2-10d NAILS AT EACH JOINT.

SEE GENERAL NOTE "G" ON PAGE 2.

BEAM, 2" X 4" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (8 REQD).

PLYWOOD, 3/4" X 9-1/2" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (8 REQD). NAIL TO THE BEAMS W/1-6d NAIL EVERY 8".



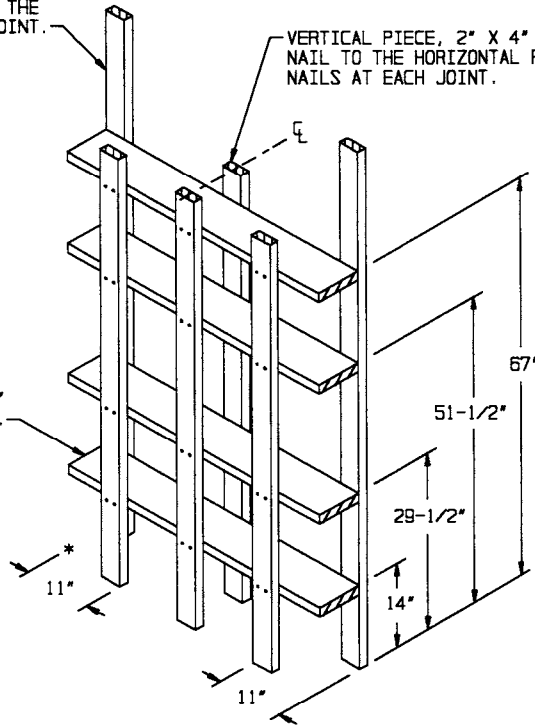
END BLOCKING ASSEMBLY L

NOTE: FOR A ONE HIGH LOAD, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES. A TWO LAYER LOAD MAY NOT EXCEED 35,260 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 17,630 POUNDS.

VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-3") (2 REQD). NAIL TO THE HORIZONTAL PIECES W/2-10d NAILS AT EACH JOINT.

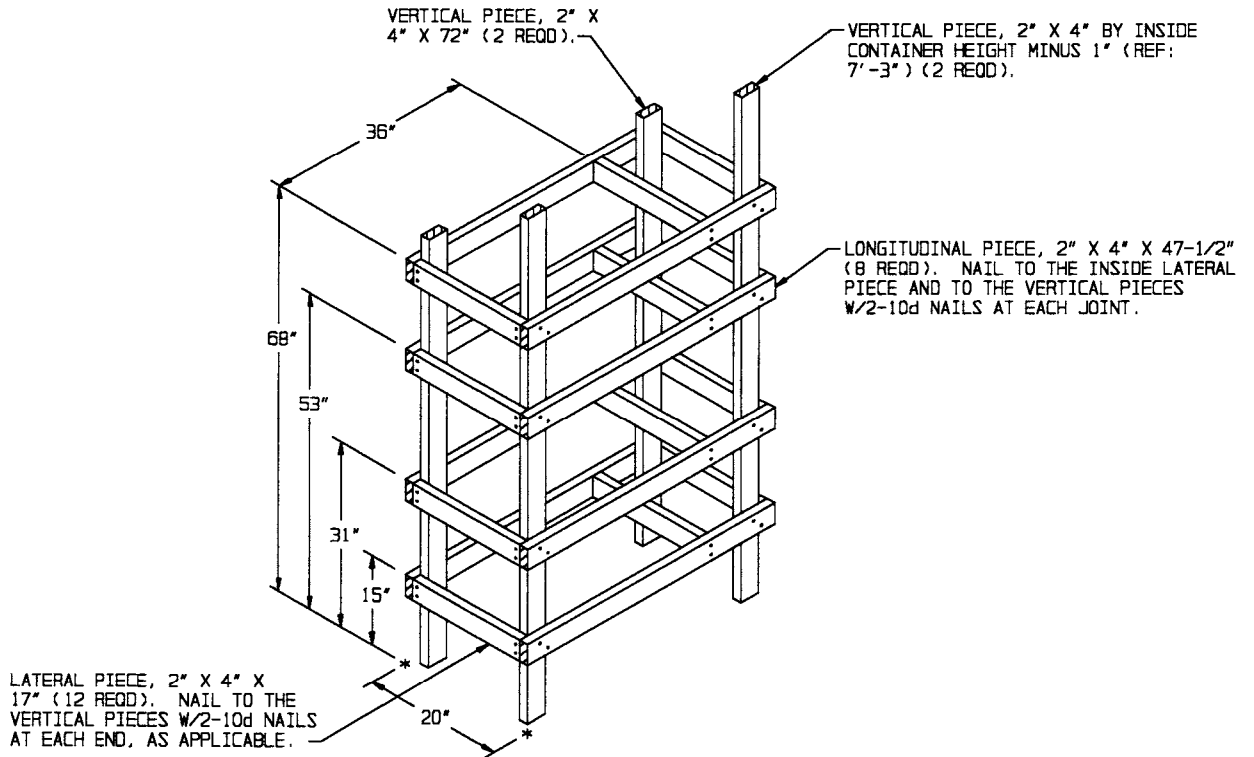
VERTICAL PIECE, 2" X 4" X 72" (AS REQD). NAIL TO THE HORIZONTAL PIECES W/2-10d NAILS AT EACH JOINT.

HORIZONTAL PIECE, 2" X 8" X 48" (4 REQD).



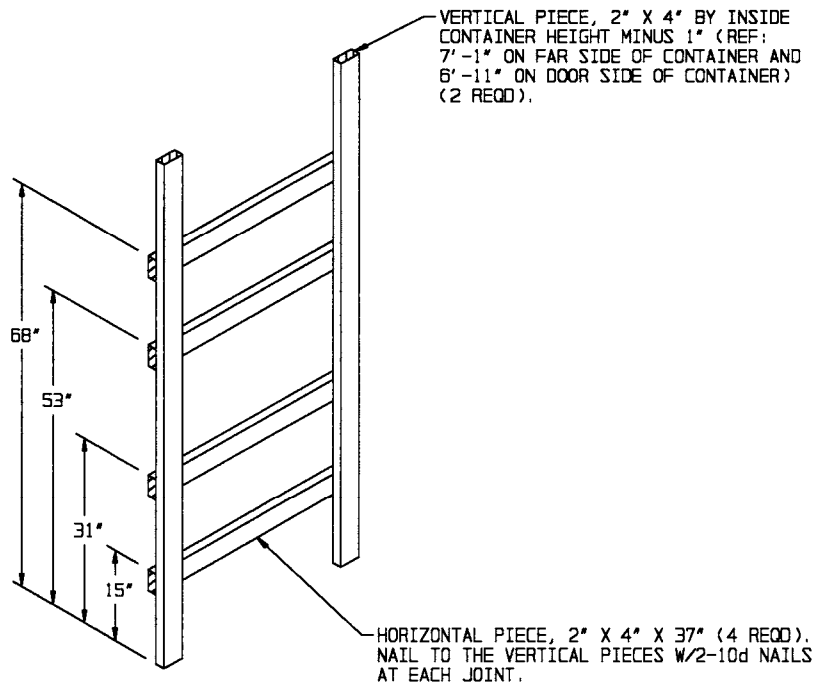
CENTER FILL ASSEMBLY F

FOR A ONE HIGH LOAD, ELIMINATE THE TOP TWO HORIZONTAL PIECES AND REDUCE THE HEIGHT OF THE 72" VERTICAL PIECES TO 36".



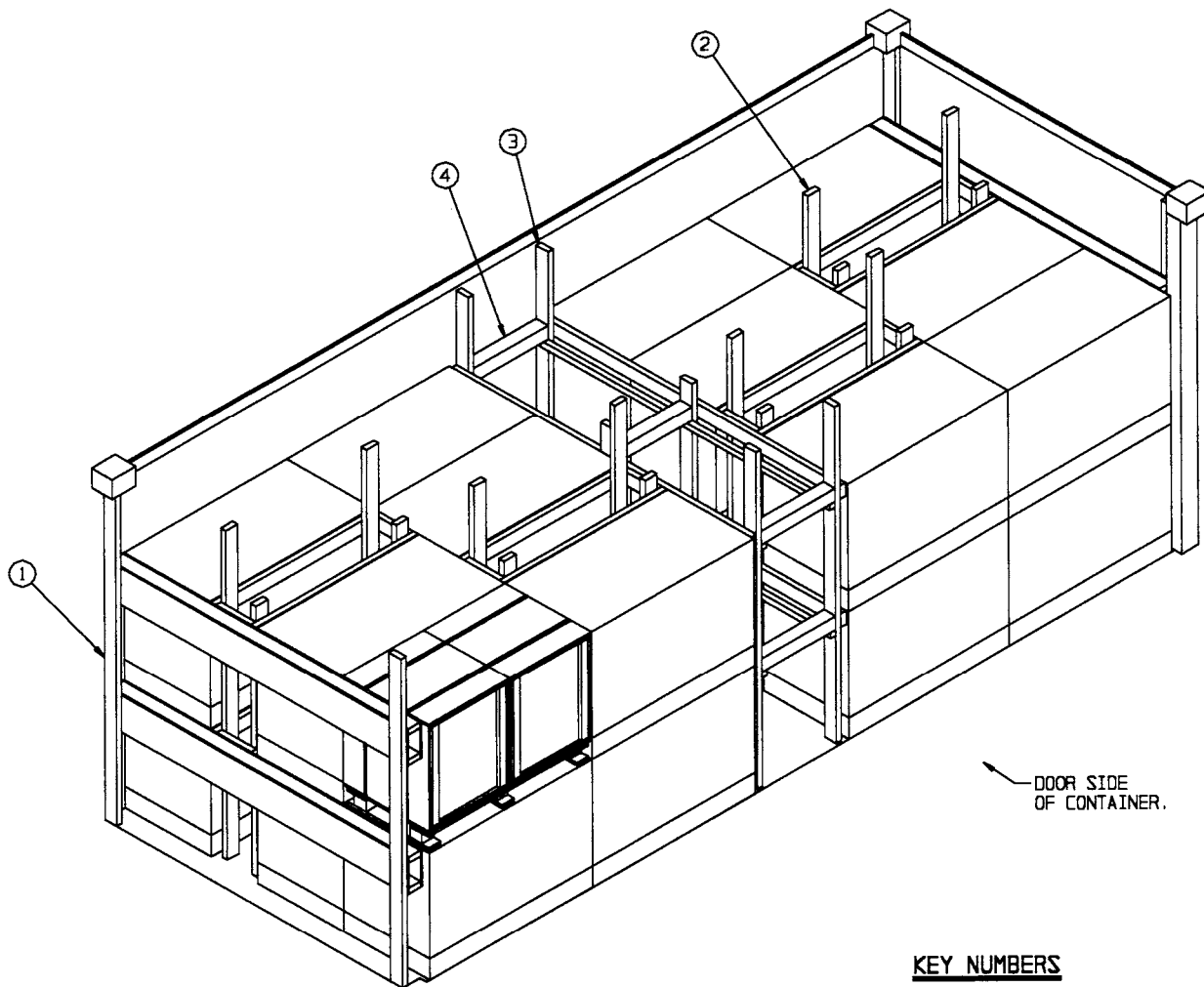
FILLER ASSEMBLY C

A "RIGHT HAND" FILLER ASSEMBLY IS DEPICTED ABOVE. A "LEFT HAND" ASSEMBLY IS ALSO REQUIRED. FOR A ONE HIGH LOAD, ELIMINATE THE TOP FOUR LONGITUDINAL PIECES AND THE TOP SIX LATERAL PIECES, AND REDUCE THE SHORT VERTICAL PIECES TO 36".



SIDE FILL ASSEMBLY F

FOR A ONE HIGH LOAD, ELIMINATE THE TOP TWO HORIZONTAL PIECES.



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY M (2 REQD). SEE THE DETAIL ON PAGE 54 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② CRIB FILL ASSEMBLY D (4 REQD). SEE THE DETAIL ON PAGE 55.
- ③ CENTER GATE F (2 REQD). SEE THE DETAIL ON PAGE 54.
- ④ STRUT, 4" X 4" BY CUT TO FIT (REF: 22") (6 REQD). TOENAIL TO PIECES MARKED ③ W/2-12d NAILS AT EACH END. SEE THE "BEVEL-CUT" DETAIL ON PAGE 73.

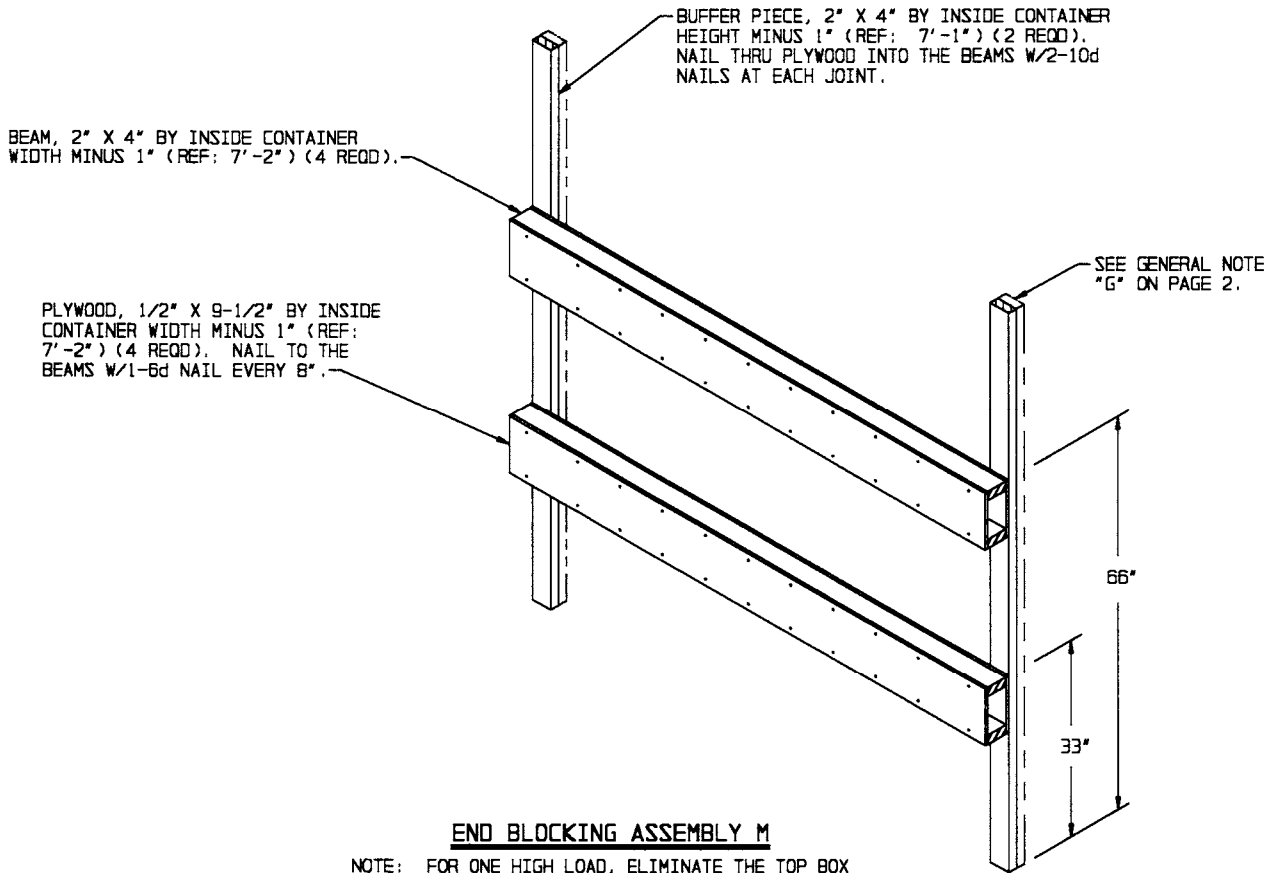
RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES M, FOUR CRIB FILL ASSEMBLIES D AND TWO CENTER GATES F.
2. INSTALL ONE END BLOCKING ASSEMBLY M.
3. LOAD TWO SKIDDED UNITS.
4. INSTALL ONE CRIB FILL ASSEMBLY D AND LOAD FOUR SKIDDED UNITS.
5. REPEAT STEPS 2, 3 AND 4.
6. LOAD FOUR SKIDDED UNITS.
7. INSTALL ONE CRIB FILL ASSEMBLY D AND LOAD TWO SKIDDED UNITS.
8. REPEAT STEPS 6 AND 7.
9. INSTALL THE TWO CENTER GATES F AND THE SIX STRUTS.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
2" X 2"	30	10
2" X 4"	337	225
4" X 4"	11	15
NAILS	NO. REQD	POUNDS
6d (2")	176	1-1/4
10d (3")	208	3-1/4
12d (3-1/4")	24	1/2
PLYWOOD, 1/2"	45.39 SQ FT REQD	62.41 LBS

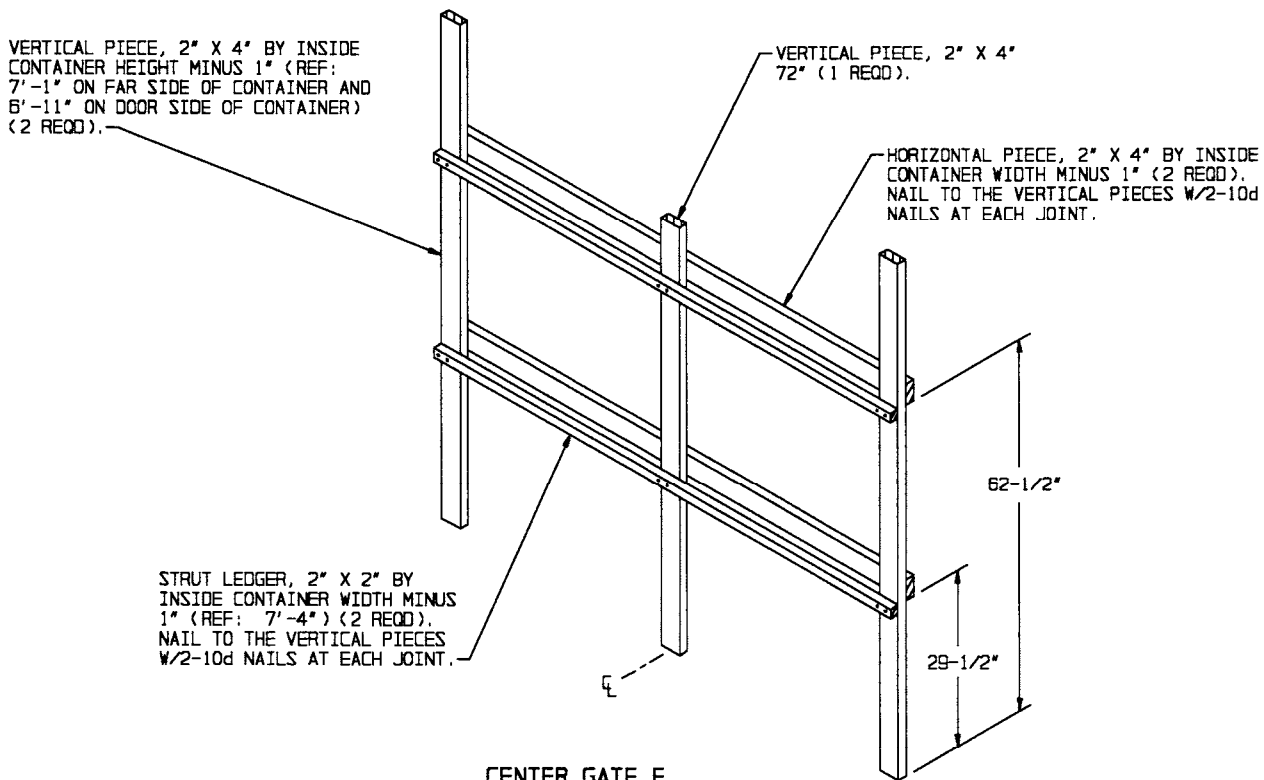
LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
SKIDDED UNIT	24	7,056 LBS
DUNNAGE		568 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		13,674 LBS (APPROX)



END BLOCKING ASSEMBLY M

NOTE: FOR ONE HIGH LOAD, ELIMINATE THE TOP BOX BEAM ASSEMBLY. A TWO LAYER LOAD MAY NOT EXCEED 12,650 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 6,325 POUNDS.



CENTER GATE F

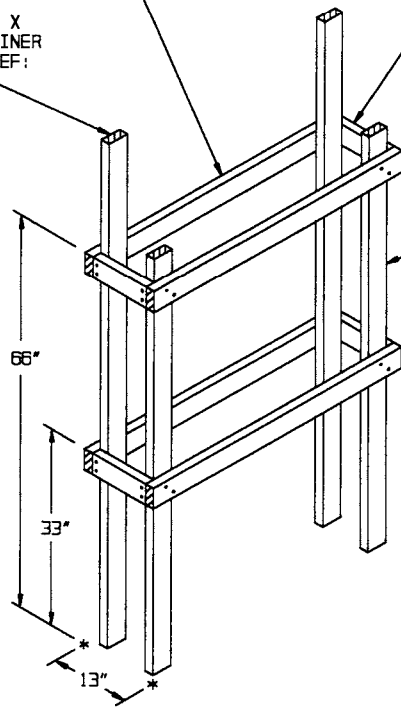
FOR A ONE HIGH LOAD, REDUCE THE CENTER VERTICAL PIECE TO 39" AND LOCATE THE STRUT LEDGERS AND HORIZONTAL PIECES AT 6" AND 29-1/2".

LONGITUDINAL PIECE, 2" X 4" X 48" (4 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.

VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-3") (2 REQD).

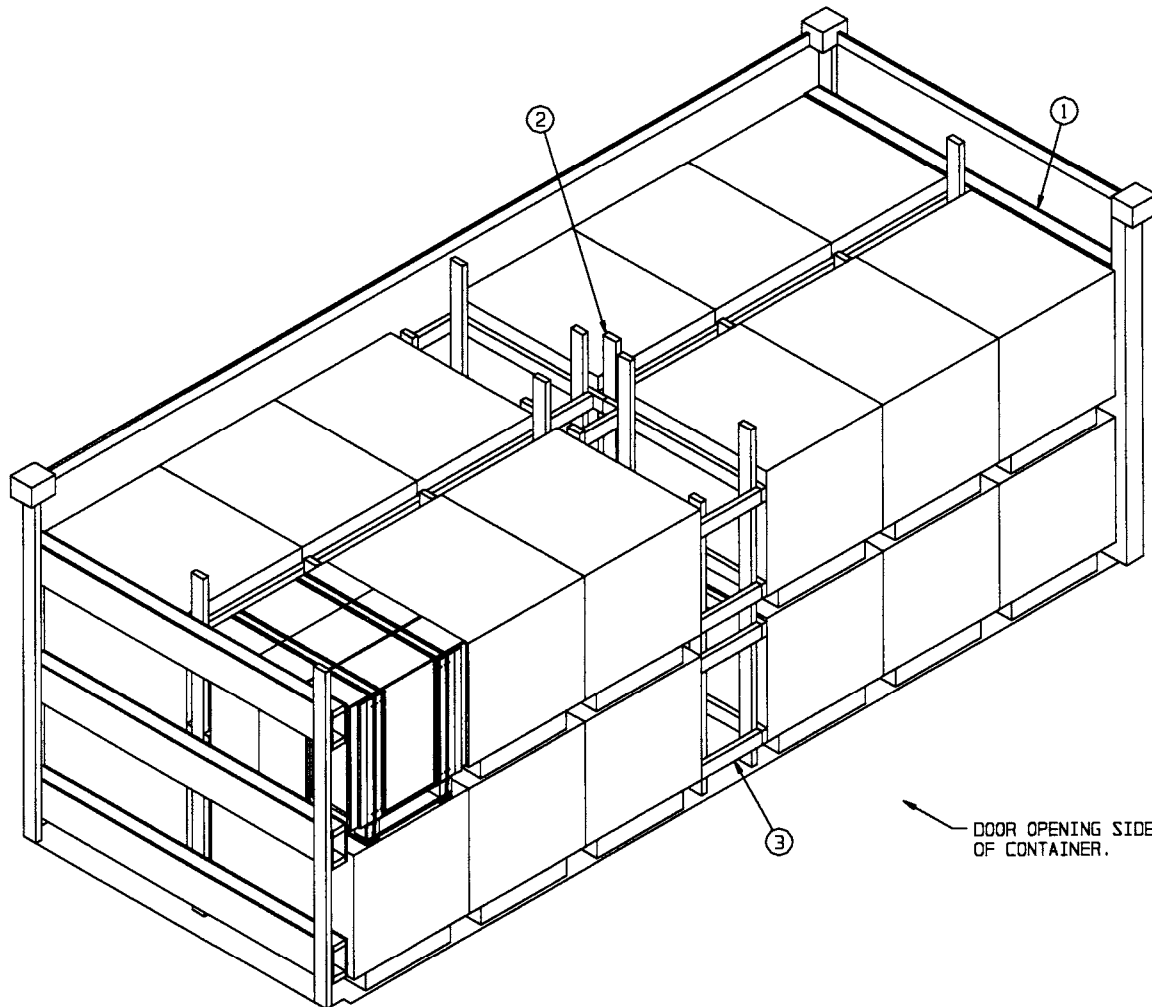
LATERAL PIECE, 2" X 4" X 10" (4 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH END.

VERTICAL PIECE, 2" X 4" X 69" (2 REQD).



CRIB FILL ASSEMBLY D

FOR A ONE HIGH LOAD, REDUCE THE SHORT VERTICAL PIECES TO 39", AND MOVE THE LATERAL AND LONGITUDINAL PIECES TO 9" AND 33".



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY N (2 REQD). SEE THE DETAIL ON PAGE 59 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② CRIB FILL ASSEMBLY E (2 REQD). SEE THE DETAIL ON PAGE 58.
- ③ CENTER FILL ASSEMBLY G (2 REQD, ONE RIGHT HAND AND ONE LEFT HAND). SEE THE DETAIL ON PAGE 59.

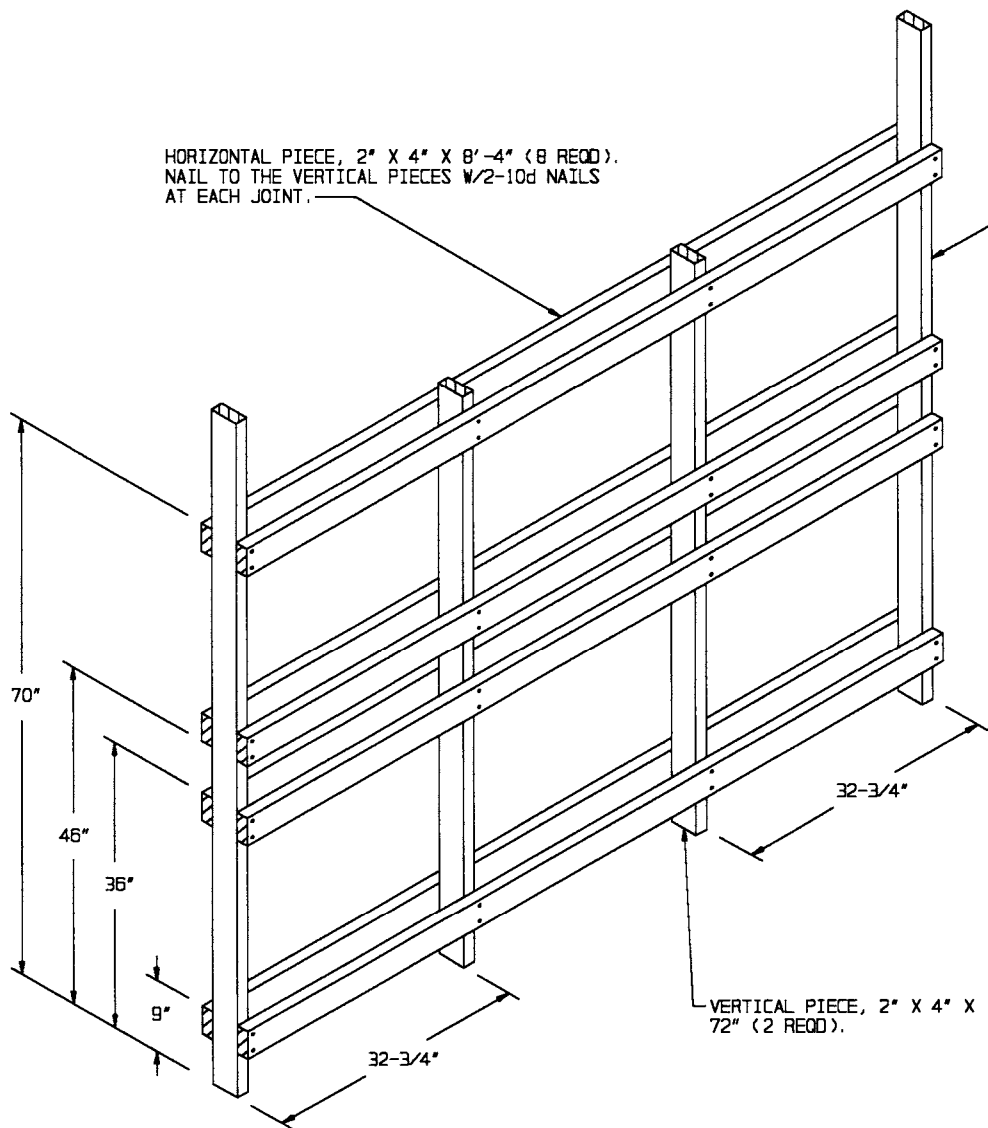
RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES N, TWO CRIB FILL ASSEMBLIES E AND TWO CENTER FILL ASSEMBLIES G, ONE RIGHT HAND AND ONE LEFT HAND.
2. INSTALL ONE END BLOCKING ASSEMBLY N AND LOAD SIX SKIDDED UNITS.
3. REPEAT STEP TWO.
4. INSTALL ONE CENTER FILL ASSEMBLY G (LEFT HAND).
4. INSTALL THE TWO CRIB FILL ASSEMBLIES E AND LOAD THE REMAINING 12 SKIDDED UNITS.
5. INSTALL ONE CENTER FILL ASSEMBLY G (RIGHT HAND).

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	434	290
NAILS	NO. REQD	POUNDS
6d (2")	264	1-3/4
10d (3")	304	4-3/4
PLYWOOD, 1/2"	68.08 SQ FT REQD	93.61 LBS

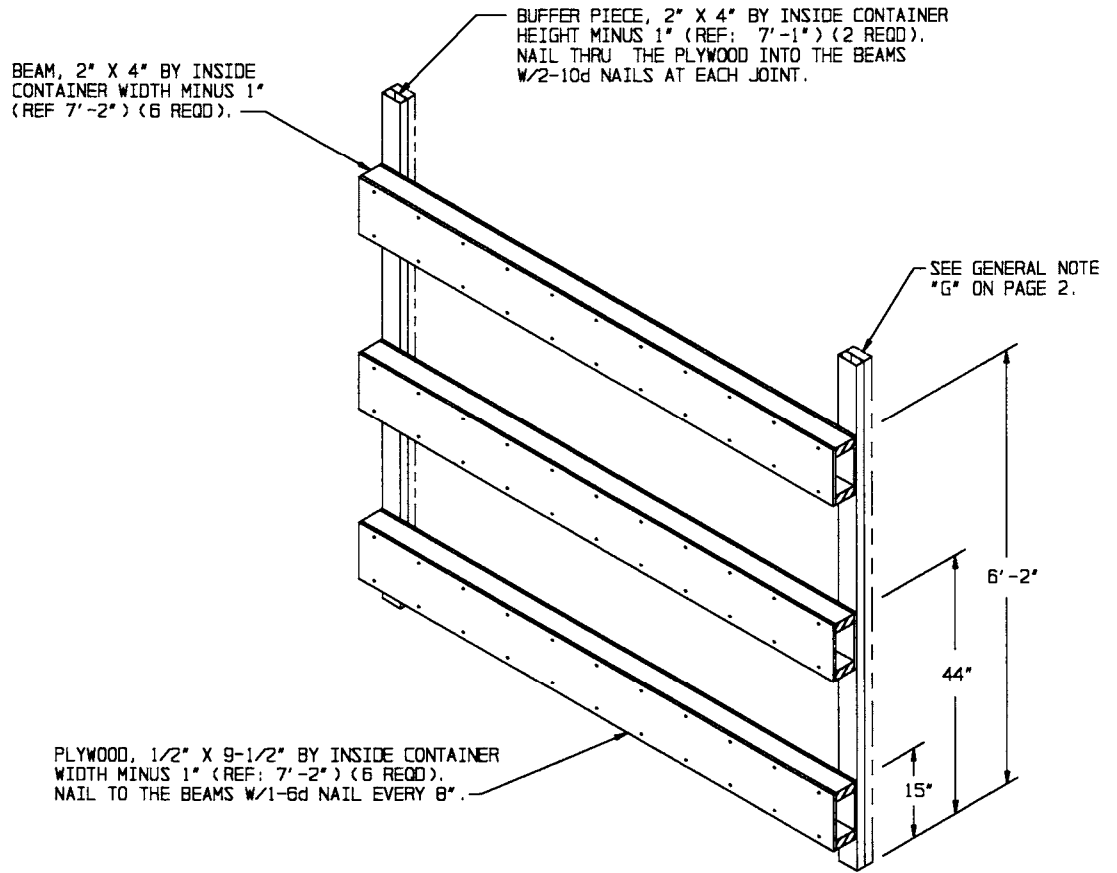
LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
SKIDDED UNIT	24	11,520 LBS
DUNNAGE		681 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		18,251 LBS (APPROX)



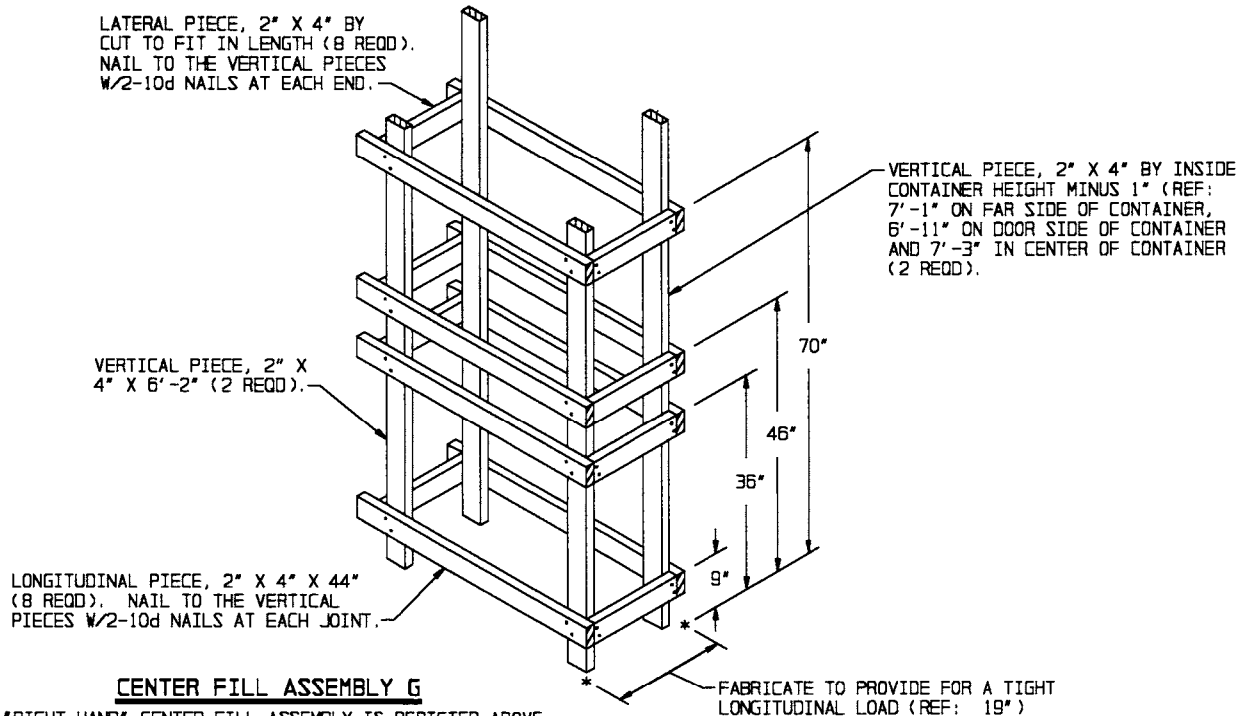
CRIB FILL ASSEMBLY E

FOR A ONE HIGH LOAD, REDUCE THE SHORT VERTICAL PIECES TO 37" AND ELIMINATE THE TOP FOUR HORIZONTAL PIECES.



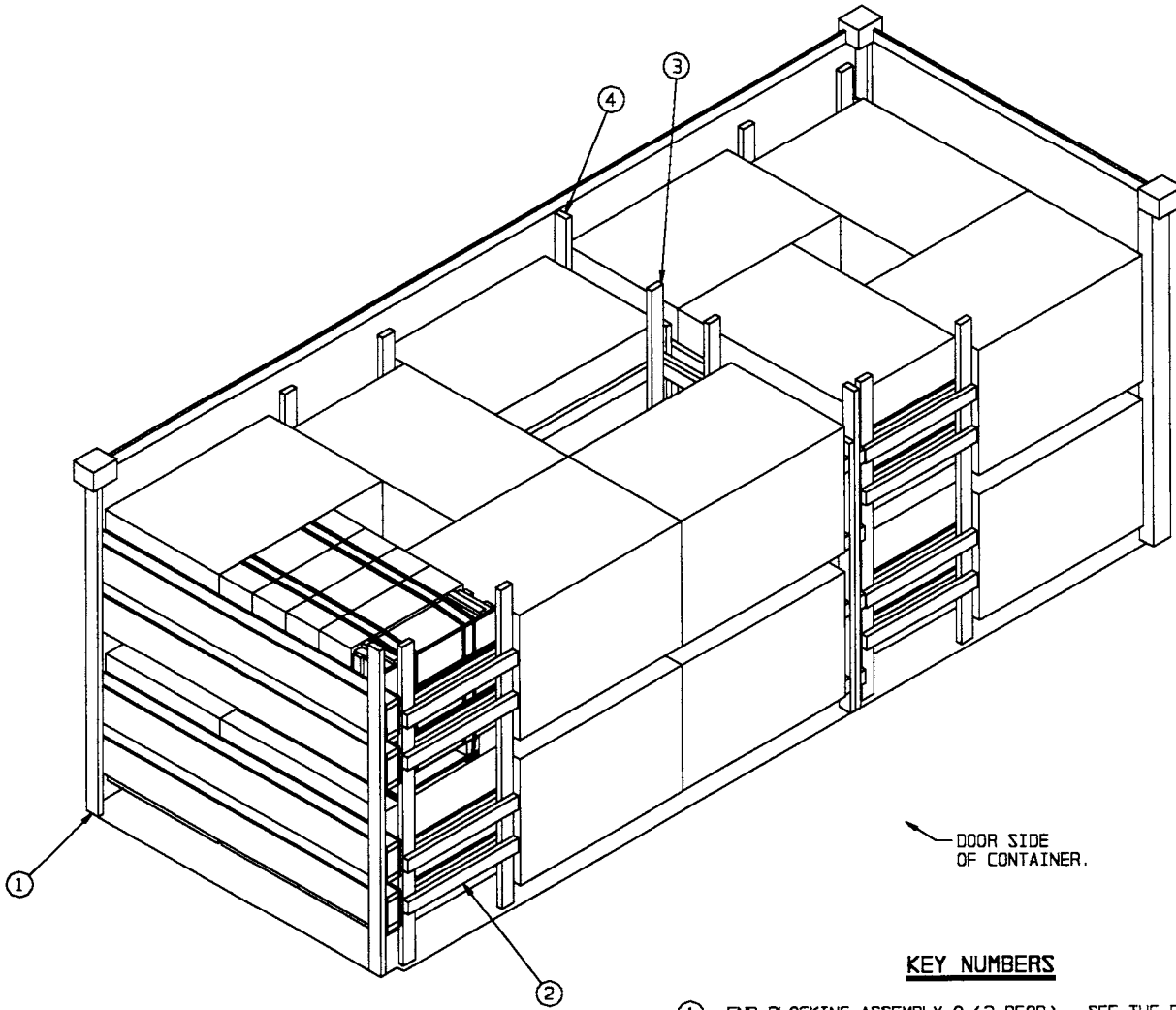
END BLOCKING ASSEMBLY N

NOTE: FOR A ONE HIGH LOAD, ELIMINATE THE TOP BOX BEAM ASSEMBLY AND LOCATE THE MIDDLE BOX BEAM ASSEMBLY AT 36-3/4". A TWO LAYER LOAD MAY NOT EXCEED 18,975 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 12,650 POUNDS.



CENTER FILL ASSEMBLY G

A "RIGHT HAND" CENTER FILL ASSEMBLY IS DEPICTED ABOVE. A "LEFT HAND" ASSEMBLY IS ALSO REQUIRED. FOR A ONE HIGH LOAD, REDUCE THE SHORT VERTICAL PIECES TO 42" AND ELIMINATE THE TOP FOUR LONGITUDINAL PIECES AND THE TOP FOUR LATERAL PIECES.



ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY O (2 REQD). SEE THE DETAIL ON PAGE 62 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② SIDE FILL ASSEMBLY G (4 REQD). SEE THE DETAIL ON PAGE 62.
- ③ CRIB FILL ASSEMBLY F (1 REQD). SEE THE DETAIL ON PAGE 63.
- ④ CENTER FILL ASSEMBLY H (1 REQD). SEE THE DETAIL ON PAGE 63.

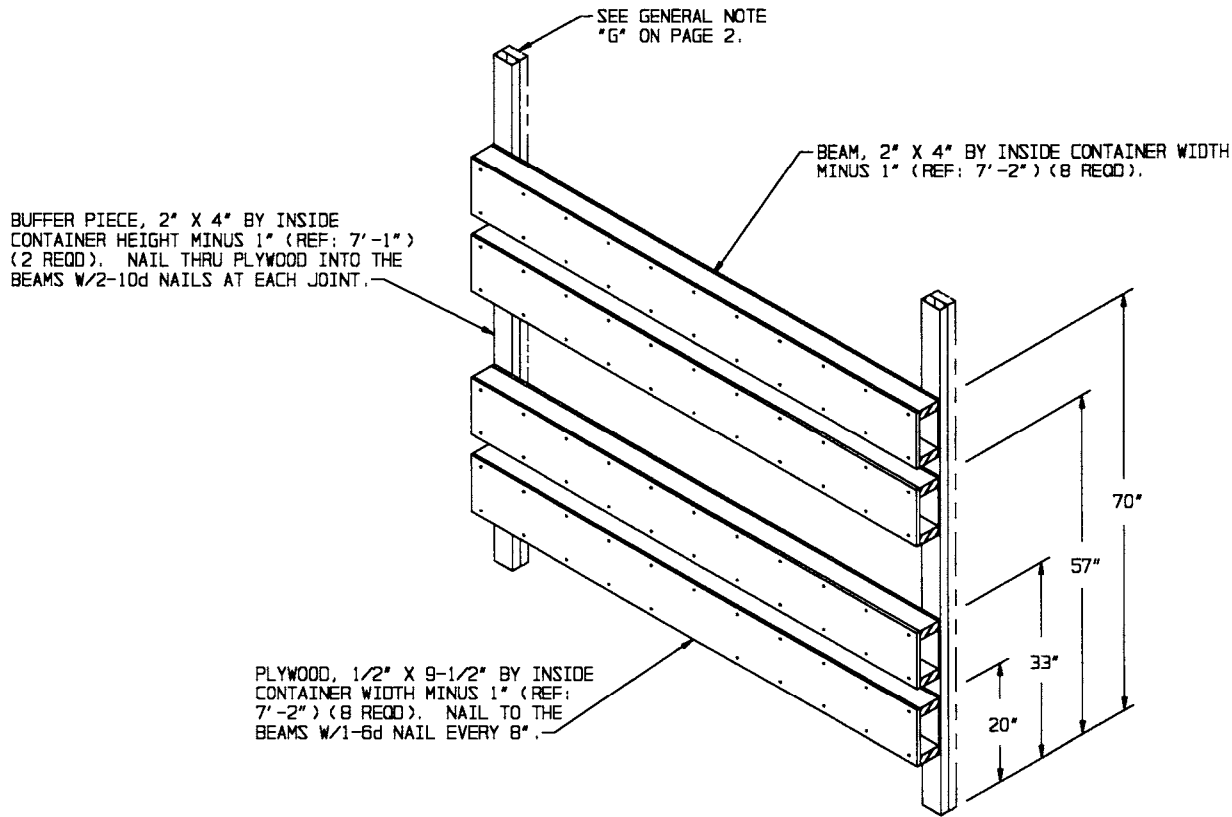
RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES O, FOUR SIDE FILL ASSEMBLIES G AND ONE CRIB FILL ASSEMBLY F. THE CENTER FILL ASSEMBLY H MAY BE PARTIALLY ASSEMBLED AT THIS TIME, BUT CANNOT BE COMPLETED UNTIL THE REQUIRED NUMBER OF VERTICAL PIECES IS DETERMINED.
2. INSTALL ONE END BLOCKING ASSEMBLY O AND LOAD FOUR SKIDDED UNITS.
3. INSTALL ONE SIDE FILL ASSEMBLY G AND LOAD FOUR SKIDDED UNITS.
4. INSTALL ONE END BLOCKING ASSEMBLY O, ONE SIDE FILL ASSEMBLY G AND LOAD EIGHT SKIDDED UNITS.
5. LOAD TWO SKIDDED UNITS.
6. MEASURE THE VOID BETWEEN THE SKIDDED UNITS AT THE CENTER OF THE CONTAINER AND COMPLETE AND INSTALL THE CENTER FILL ASSEMBLY H AND THE CRIB FILL ASSEMBLY F.
7. LOAD TWO SKIDDED UNITS.
8. INSTALL THE REMAINING TWO SIDE FILL ASSEMBLIES G.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	44	15
2" X 4"	423	282
NAILS	NO. REQD	POUNDS
6d (2")	416	2-1/2
10d (3")	344	5-1/2
PLYWOOD, 1/2"	90.78 SQ FT REQD	124.82 LBS

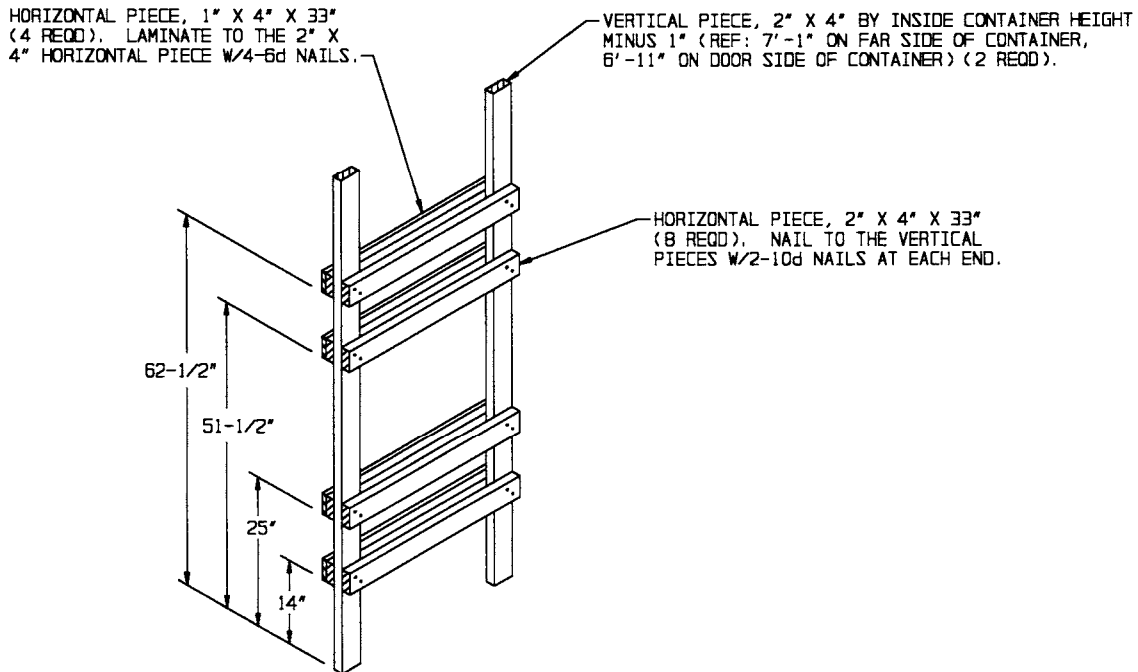
LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
SKIDDED UNIT	20	20,740 LBS
DUNNAGE		727 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		27,517 LBS (APPROX)



END BLOCKING ASSEMBLY O

NOTE: FOR A ONE HIGH LOAD, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES. A TWO LAYER LOAD MAY NOT EXCEED 25,300 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 12,650 POUNDS.



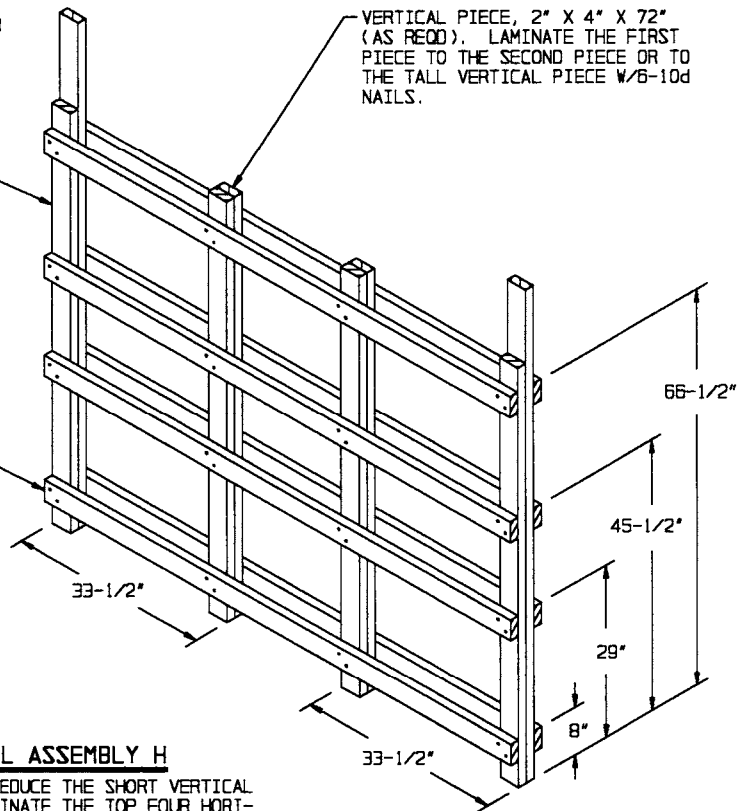
SIDE FILL ASSEMBLY G

FOR A ONE HIGH LOAD, ELIMINATE THE TOP SIX HORIZONTAL PIECES.

VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1" ON FAR SIDE OF CONTAINER AND 6'-11" ON DOOR SIDE OF CONTAINER) (2 REQD).

VERTICAL PIECE, 2" X 4" X 72" (AS REQD). LAMINATE THE FIRST PIECE TO THE SECOND PIECE OR TO THE TALL VERTICAL PIECE W/6-10d NAILS.

HORIZONTAL PIECE, 2" X 4" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-4") (8 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.

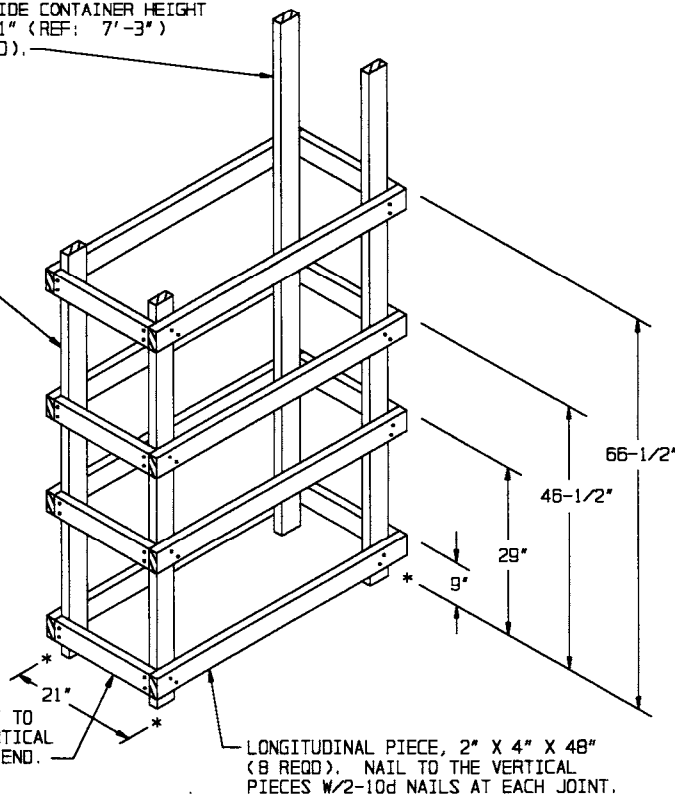


CENTER FILL ASSEMBLY H

FOR A ONE HIGH LOAD, REDUCE THE SHORT VERTICAL PIECES TO 35" AND ELIMINATE THE TOP FOUR HORIZONTAL PIECES.

VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-3") (2 REQD).

VERTICAL PIECE, 2" X 4" X 72" (2 REQD).

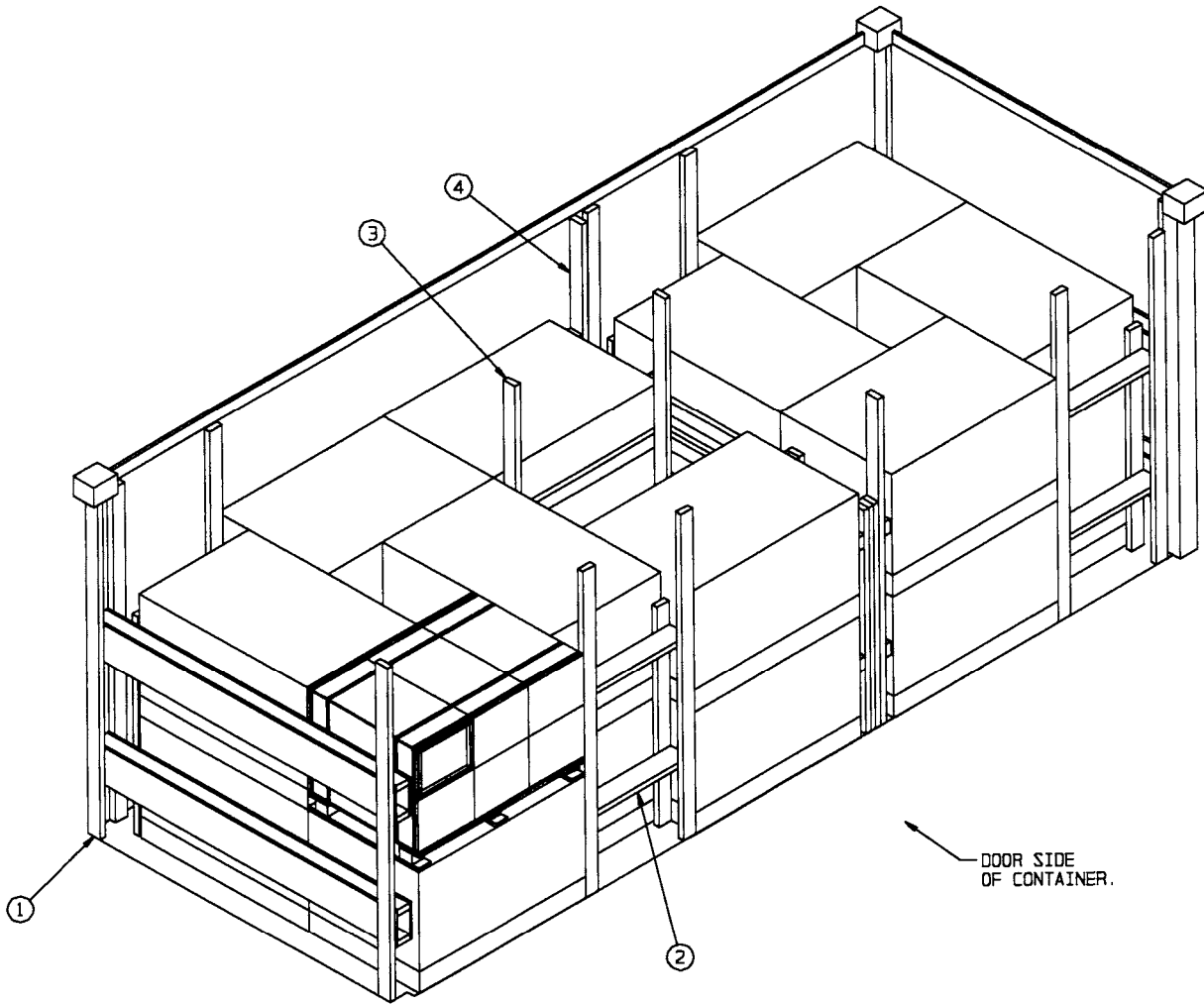


LATERAL PIECE, 2" X 4" BY CUT TO FIT (8 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH END.

LONGITUDINAL PIECE, 2" X 4" X 48" (8 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.

CRIB FILL ASSEMBLY F

FOR A ONE HIGH LOAD, ELIMINATE THE TOP FOUR LATERAL PIECES AND THE TOP FOUR LONGITUDINAL PIECES.



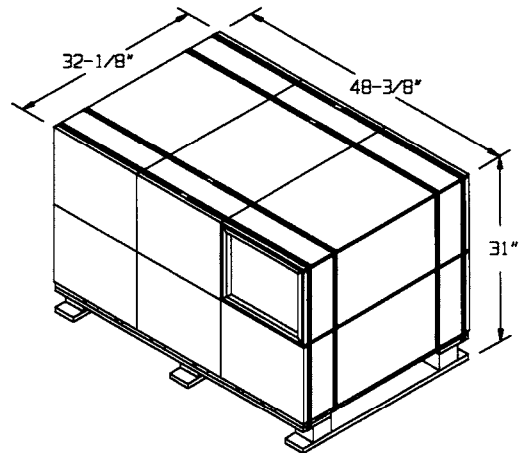
ISOMETRIC VIEW

KEY NUMBERS

- ① END BLOCKING ASSEMBLY P (2 REQD). SEE THE DETAIL ON PAGE 67 AND THE "ALTERNATIVE END BLOCKING ASSEMBLY" ON PAGE 68.
- ② SIDE FILL ASSEMBLY H (4 REQD). SEE THE DETAIL ON PAGE 66.
- ③ CRIB FILL ASSEMBLY G (1 REQD). SEE THE DETAIL ON PAGE 66.
- ④ CENTER FILL ASSEMBLY J (1 REQD). SEE THE DETAIL ON PAGE 67.

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PRE-FABRICATE TWO END BLOCKING ASSEMBLIES P, FOUR SIDE FILL ASSEMBLIES H AND ONE CRIB FILL ASSEMBLY G. THE CENTER FILL ASSEMBLY J MAY BE PARTIALLY ASSEMBLED AT THIS TIME BUT CANNOT BE COMPLETED UNTIL THE REQUIRED NUMBER OF VERTICAL PIECES IS DETERMINED.
2. INSTALL ONE END BLOCKING ASSEMBLY P AND LOAD FOUR SKIDDED UNITS.
3. INSTALL ONE SIDE FILL ASSEMBLY H AND LOAD FOUR SKIDDED UNITS.
4. INSTALL ONE END BLOCKING ASSEMBLY P, ONE SIDE FILL ASSEMBLY H AND LOAD EIGHT SKIDDED UNITS.
5. LOAD TWO SKIDDED UNITS.
6. MEASURE THE VOID BETWEEN THE SKIDDED UNITS AT THE CENTER OF THE CONTAINER AND COMPLETE AND INSTALL THE CENTER FILL ASSEMBLY J AND THE CRIB FILL ASSEMBLY G.
7. LOAD TWO SKIDDED UNITS.
8. INSTALL REMAINING TWO SIDE FILL ASSEMBLIES H.



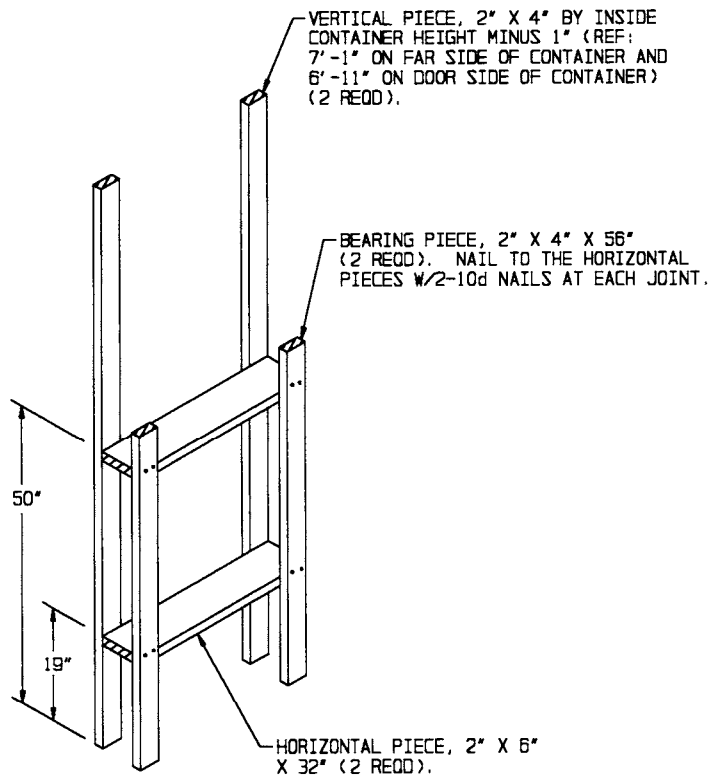
SKIDDED UNIT NO. 4

UNIT WEIGHT - - - - - 790 POUNDS (APPROX)
 CUBE - - - - - 27.9 CUBIC FEET

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	336	224
2" X 6"	22	22
NAILS	NO. REQD	POUNDS
6d (2")	176	1-1/4
10d (3")	220	3-1/2
PLYWOOD, 3/4"	45.39 SQ FT REQD	93.62 LBS

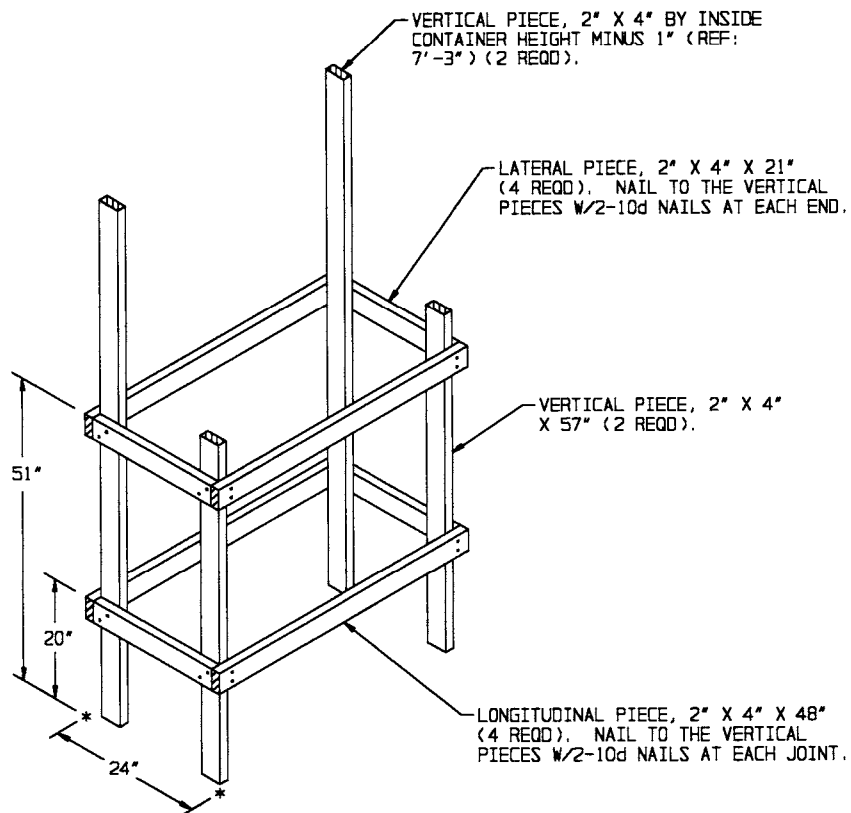
LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
SKIDDED UNIT	20	15,800 LBS
DUNNAGE		591 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		22,441 LBS (APPROX)



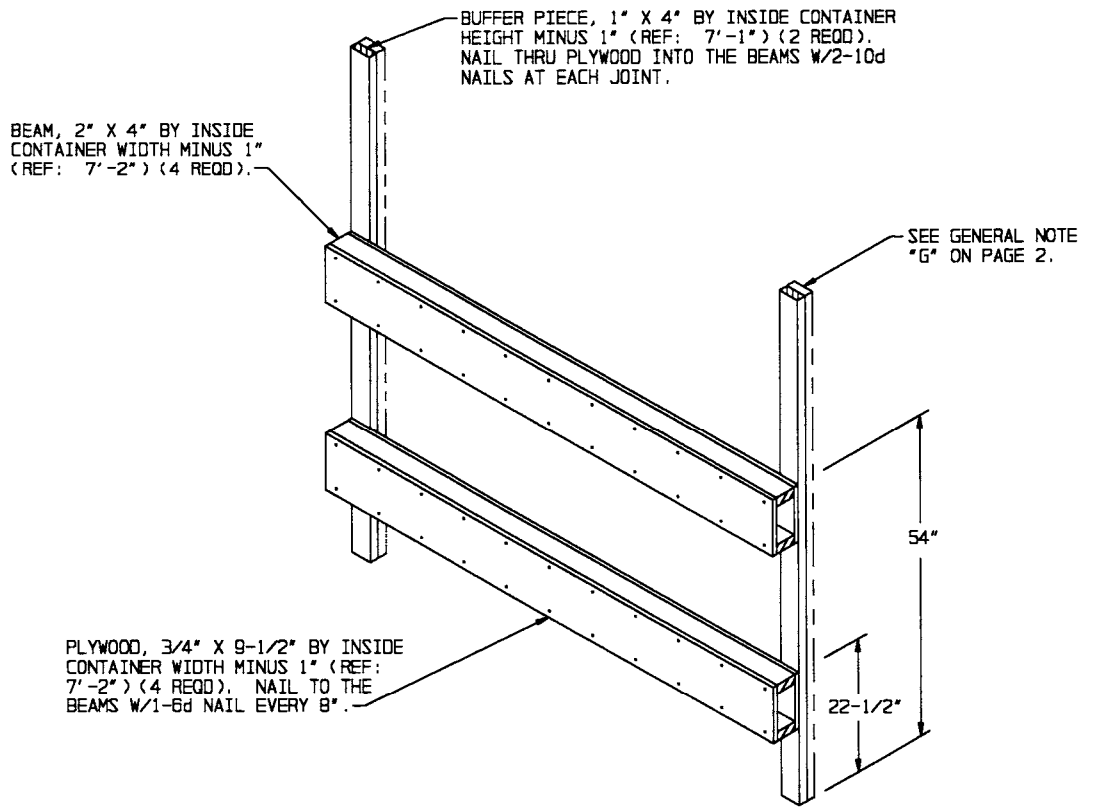
SIDE FILL ASSEMBLY H

FOR A ONE HIGH LOAD, REDUCE THE BEARING PIECES TO 34" AND MOVE THE TOP HORIZONTAL PIECE TO 31"



CRIB FILL ASSEMBLY G

FOR A ONE HIGH LOAD, REDUCE THE SHORT VERTICAL PIECES TO 36" AND MOVE THE TOP TWO LATERAL PIECES AND TOP TWO LONGITUDINAL PIECES TO 31".



BEAM, 2" X 4" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (4 REQD).

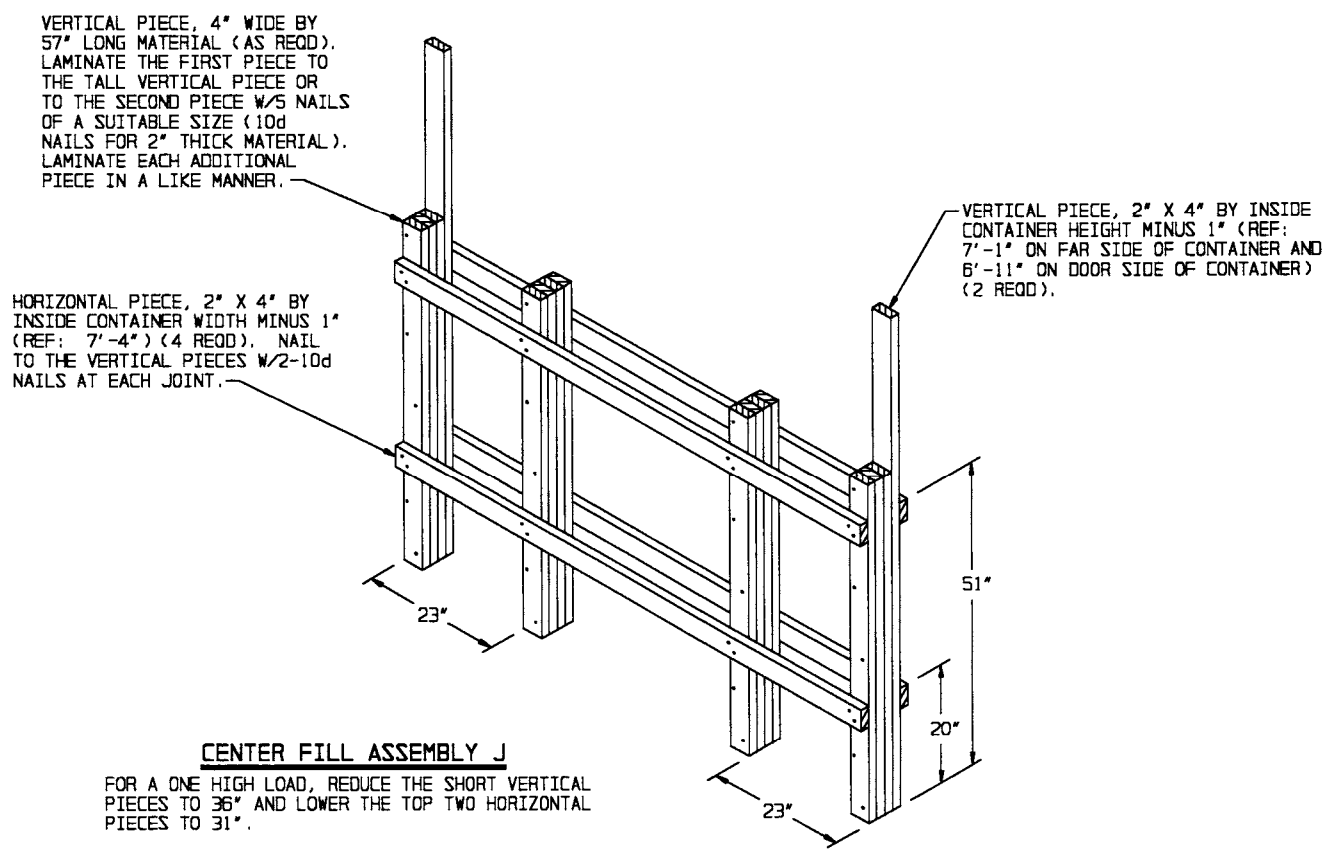
BUFFER PIECE, 1" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1") (2 REQD). NAIL THRU PLYWOOD INTO THE BEAMS W/2-10d NAILS AT EACH JOINT.

SEE GENERAL NOTE "G" ON PAGE 2.

PLYWOOD, 3/4" X 9-1/2" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (4 REQD). NAIL TO THE BEAMS W/1-6d NAIL EVERY 8".

END BLOCKING ASSEMBLY P

NOTE: FOR A ONE HIGH LOAD, ELIMINATE THE TOP BOX BEAM ASSEMBLY. A TWO LAYER LOAD MAY NOT EXCEED 17,630 POUNDS AND A ONE LAYER LOAD MAY NOT EXCEED 8,815 POUNDS.



VERTICAL PIECE, 4" WIDE BY 57" LONG MATERIAL (AS REQD). LAMINATE THE FIRST PIECE TO THE TALL VERTICAL PIECE OR TO THE SECOND PIECE W/S NAILS OF A SUITABLE SIZE (10d NAILS FOR 2" THICK MATERIAL). LAMINATE EACH ADDITIONAL PIECE IN A LIKE MANNER.

VERTICAL PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1" ON FAR SIDE OF CONTAINER AND 6'-11" ON DOOR SIDE OF CONTAINER) (2 REQD).

HORIZONTAL PIECE, 2" X 4" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-4") (4 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.

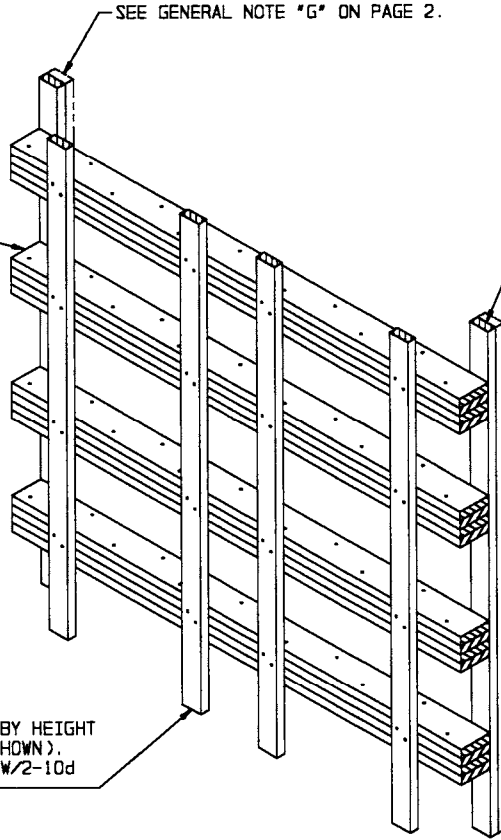
CENTER FILL ASSEMBLY J

FOR A ONE HIGH LOAD, REDUCE THE SHORT VERTICAL PIECES TO 36" AND LOWER THE TOP TWO HORIZONTAL PIECES TO 31".

SEE GENERAL NOTE "G" ON PAGE 2.

BEAM ASSEMBLY, 2" OR 4" BY WIDTH REQUIRED BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-2") (QUADRUPLED SHOWN) (4 SHOWN). LAMINATE EACH PIECE TO THE PREVIOUS PIECE W/11-10d NAILS (UNLESS 4" X 4" MATERIAL IS USED).

BUFFER PIECE, 2" X 4" BY INSIDE CONTAINER HEIGHT MINUS 1" (REF: 7'-1") (2 REQ'D). NAIL TO THE BEAM ASSEMBLIES W/2-10d NAILS AT EACH JOINT.



LOAD BEARING PIECE, 2" X 4" BY HEIGHT OF THE TOP BEAM PLUS 6" (4 SHOWN). NAIL TO THE BEAM ASSEMBLIES W/2-10d NAILS AT EACH JOINT.

ALTERNATIVE END BLOCKING ASSEMBLY

SPECIAL NOTES:

1. THE ALTERNATIVE END BLOCKING ASSEMBLY MAY BE USED IN PLACE OF THE END BLOCKING ASSEMBLIES DEPICTED WITHIN THE LOADS ON PAGES 8 THRU 64, IF DESIRED.
2. BEAM ASSEMBLIES MUST BE LOCATED TO FULLY SUPPORT THE LADING UNITS. A MINIMUM OF TWO BEAM ASSEMBLIES ARE REQUIRED PER TIER OF LADING, UNLESS THE LADING UNIT CONSISTS OF ONLY ONE OR TWO LAYERS OF BOXES, IN WHICH CASE ONLY ONE BEAM ASSEMBLY IS REQUIRED PER LAYER, PROVIDING EACH LAYER OF BOXES IS IN CONTACT WITH A BEAM ASSEMBLY.
3. LOAD BEARING PIECES MUST BE LOCATED TO FULLY SUPPORT THE LADING UNITS. QUANTITY OF LOAD BEARING PIECES MAY BE VARIED TO SUIT THE LADING UNIT BEING SHIPPED.
4. THE QUANTITY AND SIZE OF BEAMS USED IN A BEAM ASSEMBLY WILL BE DETERMINED USING THE CHART AT LEFT. FOR EXAMPLE, IF SIXTEEN LADING UNITS ARE TO BE LOADED TWO TIERS HIGH AND TWO UNITS WIDE, AND EACH UNIT WEIGHS 2,500 POUNDS, THE TOTAL LADING WEIGHT IS 40,000 POUNDS. FOUR BEAM ASSEMBLIES WILL BE REQUIRED, SO EACH BEAM ASSEMBLY MUST BE CAPABLE OF SUPPORTING 10,000 POUNDS. THE BLOCKING ASSEMBLY MUST THEREFORE BE CONSTRUCTED USING EITHER FIVE 2" X 6" BEAMS IN EACH ASSEMBLY, THREE 2" X 8" BEAMS IN EACH ASSEMBLY, OR TWO 2" X 10" BEAMS IN EACH ASSEMBLY. A BEAM ASSEMBLY WILL CONSIST OF A MINIMUM OF TWO BEAMS.

SIZE/WEIGHT OF BEAMS	
SIZE OF BEAM	WEIGHT PER BEAM
2" X 4"	890 LBS
2" X 6"	2,200 LBS
2" X 8"	3,850 LBS
2" X 10"	6,225 LBS
4" X 4"	2,080 LBS

VERTICAL UNITIZING STRAP, 1-1/4" X .031" OR .035" BY A LENGTH TO SUIT STEEL STRAPPING (2 REED). POSITION NEAR POSTS OF PALLET BASE.

INDICATES A TYPICAL 1-LAYER PALLET UNIT.

INDICATES TWO CRIMPED 1-1/4" STRAP SEALS.

24" MAX

FIGURE-8 UNITIZING STRAP, 1-1/4" X .031" OR .035" BY A LENGTH TO SUIT STEEL STRAPPING (1 REED). POSITION NEAR THE CENTER OF A LADING UNIT WIDTH. NOTE THAT THE STRAP PASSES UNDER THE TOP DECK OF THE PALLET OR SKIDDED BASE FOR THE TOP UNIT.

INDIVIDUAL LADING UNIT STRAPS HAVE BEEN OMITTED FOR CLARITY PURPOSES.

INDICATES A LOWER-TIER PALLET UNIT.

SPECIAL NOTES:

1. SHIPMENTS OF PALLET AND SKIDDED UNITS OF AMMUNITION AND/OR COMPONENTS SHOULD CONSIST OF FULL HEIGHT AND FULL-LAYER UNITS TO THE MAXIMUM EXTENT POSSIBLE. HOWEVER, THE END OF A LOT OR THE QUANTITY OF ITEMS NEEDED TO FILL A REQUISITION, MAY NECESSITATE THE SHIPMENT OF ONE OR MORE LESS-THAN-FULL LADING UNITS WITHIN A LOAD. THE PROCEDURES ON THIS PAGE AND ON PAGE 70 ARE PRESENTED AS GUIDANCE IN THE SHIPMENT OF THESE PARTIAL UNITS.
2. A LESS-THAN-FULL HEIGHT LADING UNIT, WHICH IS TO BE SHIPPED ON TOP OF A LOAD (CONTAINER HEIGHT PERMITTING) IN ACCORDANCE WITH THE PROCEDURES DELINEATED ON THIS PAGE, MUST NOT BE MORE THAN 24" IN HEIGHT. REFER TO THE "PARTIAL UNIT ON TOP OF LOAD" CHART BELOW FOR GUIDANCE AS TO THE MAXIMUM PERMISSIBLE NUMBER OF LAYERS IN A UNIT WHICH IS TO BE STRAPPED ON TOP OF THE LOAD BASED ON THE HEIGHT OF THE BOXES AND THE NUMBER OF LAYERS IN THE UNIT TO WHICH THE PARTIAL UNIT IS TO BE SECURED.
3. A LOW HEIGHT (24" MAX) LESS-THAN-FULL-HEIGHT LADING UNIT SHOULD BE POSITIONED NEAR THE LONGITUDINAL CENTER OF THE CONTAINER IN ORDER TO ENSURE THE PROPER LOAD WEIGHT DISTRIBUTION WITHIN THE CONTAINER. SEE GENERAL NOTE "O" ON PAGE 2.
4. THE PARTIAL UNIT WILL BE STRAPPED TO THE LADING UNIT DIRECTLY BELOW WITH TWO VERTICAL UNITIZING STRAPS AND A FIGURE-8 UNITIZING STRAP. SEE THE "SECUREMENT OF A PARTIAL UNIT ON TOP" VIEW ABOVE FOR GUIDANCE.
4. IF THE PARTIAL UNIT TO BE SHIPPED EXCEEDS 24" IN HEIGHT, THE PROCEDURES SPECIFIED ON PAGE 70 WILL APPLY.
5. LEFTOVER BOXES, IN AN AMOUNT WHICH IS LESS THAN THE QUANTITY IN ONE LAYER OF A UNIT, CAN BE SECURED TO THE TOP OF A PARTIAL UNIT FOR SECUREMENT ON TOP OF A LOAD WITH THE FOLLOWING LIMITATIONS:
 - A. THE HEIGHT OF THE PARTIAL UNIT FOR SHIPMENT OF A LESS-THAN-FULL-HEIGHT LADING UNIT ON TOP OF A LOAD, WITH BOXES ADDED, MUST NOT EXCEED 24" IN HEIGHT.
 - B. LEFTOVER BOXES ON TOP OF A PARTIAL UNIT ARE APPLICABLE FOR CONUS AND OCONUS SHIPMENTS FROM DEPOT TO DEPOT OR FROM DEPOTS TO POSTS, CAMPS AND STATIONS, OR, UPON APPROVAL FROM HIGHER HEADQUARTERS, FOR SHIPMENTS FROM LOAD, ASSEMBLE AND PACK PLANTS TO DEPOTS. CAUTION: A LOAD CONTAINING LEFTOVER BOXES IN AN AMOUNT WHICH IS LESS THAN A FULL LAYER, AND SECURED TO THE TOP OF A PARTIAL UNIT, MUST NOT BE DESTINED FOR BREAKBULK SHIPMENT OVERSEAS BY WATER CARRIER.
 - C. THE LEFTOVER BOXES MUST BE SECURED TO THE PARTIAL UNIT WITH THEIR OWN STRAPPING, SEPARATE FROM THE STRAPS FOR THE PARTIAL UNIT. SEE THE DETAILS ON PAGE 71 FOR GUIDANCE IN STRAP APPLICATION.

SECUREMENT OF PARTIAL LADING UNIT ON TOP

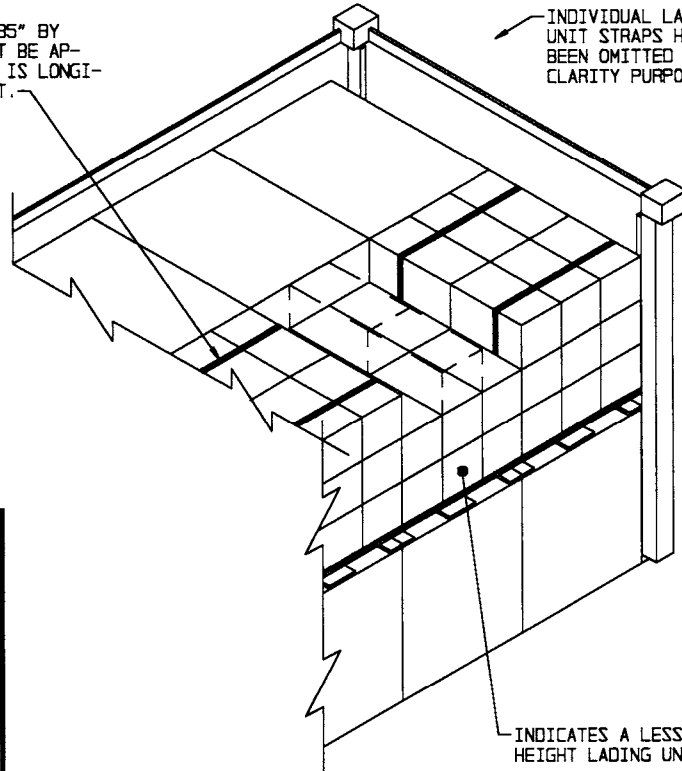
THE PALLET UNITS SHOWN ABOVE ARE TYPICAL. THE PROCEDURES ARE ALSO APPLICABLE FOR OTHER PALLET AND SKIDDED UNITS.

PARTIAL UNIT ON TOP OF LOAD	
NO. OF LAYERS IN UNIT BELOW	MAXIMUM NUMBER OF LAYERS WHICH CAN BE STRAPPED ON TOP OF LOAD
1	NOT APPLICABLE
2	1 LAYER OF BOXES IF 18" OR LESS BOX HEIGHT
3	2 LAYERS OF BOXES IF 9" OR LESS BOX HEIGHT 1 LAYER OF BOXES IF OVER 9"
4 THRU 8	3 LAYERS OF BOXES IF 6" OR LESS BOX HEIGHT 2 LAYERS OF BOXES IF OVER 6" BUT NOT MORE THAN 9" 1 LAYER OF BOXES IF OVER 9"

NOTE: FOR FOUR LAYERS OF BOXES, SHIP IN TWO 2-LAYER UNITS ON TOP OF LOAD, FOR THREE LAYERS OF BOXES OVER 6" IN HEIGHT, SHIP IN ONE 1-LAYER AND ONE 2-LAYER UNITS ON TOP OF LOAD, AND FOR TWO LAYERS OF BOXES OVER 9" IN HEIGHT, SHIP IN TWO 1-LAYER UNITS ON TOP OF LOAD.

TWO ADDITIONAL 1-1/4" X .031" OR .035" BY LENGTH TO SUIT UNITIZING STRAPS MUST BE APPLIED AROUND EACH LADING UNIT WHICH IS LONGITUDINALLY ADJACENT TO A PARTIAL UNIT.

INDIVIDUAL LADING UNIT STRAPS HAVE BEEN OMITTED FOR CLARITY PURPOSES.



INDICATES A LESS-THAN-FULL HEIGHT LADING UNIT.

ISOMETRIC VIEW

PARTIAL UNIT WITHIN A TIER (LAYER)	
NO. OF LAYERS IN ADJACENT UNITS	MINIMUM NUMBER OF LAYERS WHICH CAN BE SHIPPED WITHIN A TIER
1	NOT APPLICABLE
2	CANNOT BE USED (SEE NOTE 4)
3	2 LAYERS
4	3 LAYERS
5	3 LAYERS
6	4 LAYERS
7	5 LAYERS
8	5 LAYERS

(SPECIAL NOTES CONTINUED)

SPECIAL NOTES:

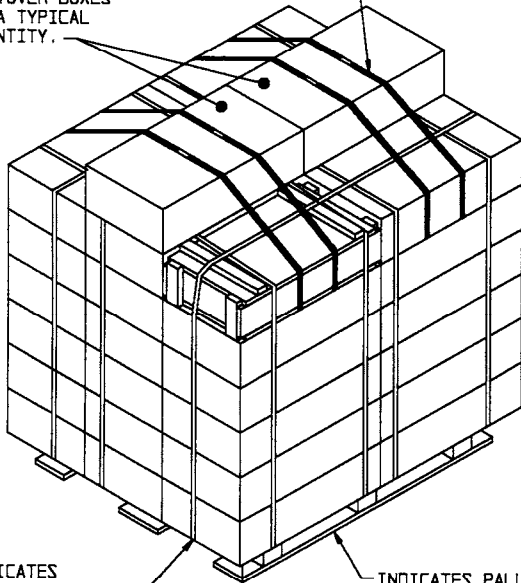
1. SHIPMENTS OF PALLET AND SKIDDED UNITS OF AMMUNITION AND/OR COMPONENTS SHOULD CONSIST OF FULL HEIGHT AND FULL-LAYER UNITS TO THE MAXIMUM EXTENT POSSIBLE. HOWEVER, THE END OF A LOT OR THE QUANTITY OF ITEMS NEEDED TO FILL A REQUISITION, MAY NECESSITATE THE SHIPMENT OF ONE OR MORE LESS-THAN-FULL LADING UNITS WITHIN A LOAD. THE PROCEDURES ON THIS PAGE AND ON PAGE 69 ARE PRESENTED AS GUIDANCE IN THE SHIPMENT OF THESE PARTIAL UNITS.
2. A LESS-THAN-FULL HEIGHT LADING UNIT, WHICH IS TO BE SHIPPED WITHIN A TIER HAS A LIMITATION AS TO THE MINIMUM NUMBER OF FULL LAYERS OF BOXES. THE HEIGHT OF THE PARTIAL UNIT MUST BE AT LEAST 66% (2/3) OF THE HEIGHT OF THE LONGITUDINALLY ADJACENT UNITS. REFER TO THE "PARTIAL UNIT WITHIN A TIER (LAYER)" CHART ABOVE FOR GUIDANCE AS TO THE MINIMUM NUMBER OF LAYERS OF BOXES PERMISSIBLE IN THE PARTIAL UNIT, BASED ON THE NUMBER OF LAYERS IN THE LONGITUDINALLY ADJACENT UNITS.
3. A PARTIAL UNIT SHOULD BE POSITIONED NEAR THE LONGITUDINAL CENTER OF THE CONTAINER IN ORDER TO ENSURE THE PROPER LOAD WEIGHT DISTRIBUTION WITHIN THE CONTAINER. SEE GENERAL NOTE "O" ON PAGE 2.
4. ALL LESS-THAN-FULL HEIGHT LADING UNITS WHICH ARE TO BE SHIPPED WITHIN A TIER MUST CONSIST OF FULL LAYERS OF BOXES TO A HEIGHT AT LEAST 2/3 OF THE HEIGHT OF THE LONGITUDINALLY ADJACENT UNITS.

(SPECIAL NOTES CONTINUED AT RIGHT)

5. A NEARLY-FULL-HEIGHT LESS-THAN-FULL-SIZE UNIT, OR A FULL HEIGHT UNIT HAVING LESS THAN A COMPLETE QUANTITY OF BOXES IN THE TOP LAYER, CAN BE SHIPPED WITHIN A TIER OF A LOAD. CAUTION: THE PARTIAL UNIT MUST BE LOCATED IN THE TOP TIER OF A LOAD; OTHER UNITS MUST NOT BE PLACED ON TOP OF THE PARTIAL UNIT. THE PARTIAL UNIT SHOULD BE PLACED IN THE LOAD SO THAT THERE IS AT LEAST ONE FULL HEIGHT UNIT BETWEEN IT AND A FORWARD OR REAR BLOCKING ASSEMBLY. THE ONLY ADDITIONAL DUNNAGE NEEDED IS THE FOUR 1-1/4" UNITIZING STRAPS DEPICTED IN THE "POSITIONING OF PARTIAL LADING UNIT WITHIN A TIER" VIEW ABOVE.
6. IF THE PARTIAL UNIT TO BE SHIPPED CONSISTS OF LESS FULL LAYERS OF BOXES THAN THE MINIMUM NUMBER PERMISSIBLE LISTED IN THE "PARTIAL UNIT WITHIN A TIER (LAYER)" CHART, AND IF THE PARTIAL UNIT EXCEEDS THE 24" MAXIMUM SPECIFIED FOR SHIPMENT OF A LESS-THAN-FULL-HEIGHT LADING UNIT ON TOP OF A LOAD, THE PARTIAL UNIT MUST BE BROKEN DOWN INTO TWO UNITS AND SECURED SEPARATELY.
7. LEFTOVER BOXES, IN AN AMOUNT WHICH IS LESS THAN THE QUANTITY IN ONE LAYER OF A UNIT, CAN BE SECURED TO THE TOP OF A PARTIAL UNIT FOR SECUREMENT ON TOP OF A LOAD WITH THE FOLLOWING LIMITATIONS:
 - A. LEFTOVER BOXES ON TOP OF A PARTIAL UNIT ARE APPLICABLE FOR CONUS AND OCONUS SHIPMENTS FROM DEPOT TO DEPOT OR FROM DEPOTS TO POSTS, CAMPS AND STATIONS, OR, UPON APPROVAL FROM HIGHER HEADQUARTERS, FOR SHIPMENTS FROM LOAD, ASSEMBLE AND PACK PLANTS TO DEPOTS. CAUTION: A LOAD CONTAINING LEFTOVER BOXES IN AN AMOUNT WHICH IS LESS THAN A FULL LAYER, AND SECURED TO THE TOP OF A PARTIAL UNIT, MUST NOT BE DESTINED FOR BREAKBULK SHIPMENT OVERSEAS BY WATER CARRIER.
 - B. THE LEFTOVER BOXES MUST BE SECURED TO THE PARTIAL UNIT WITH THEIR OWN STRAPPING, SEPARATE FROM THE STRAPS FOR THE PARTIAL UNIT. SEE THE DETAILS ON PAGE 71 FOR GUIDANCE IN STRAP APPLICATION.

INDICATES UNITIZING STRAP, OF A SIZE AT LEAST AS HEAVY AS THE UNIT STRAPS, SEALED WITH ONE DOUBLE NOTCHED SEAL.

INDICATES TWO LEFTOVER BOXES AS A TYPICAL QUANTITY.



INDICATES UNITIZING STRAP OF BASIC UNIT.

INDICATES PALLET.

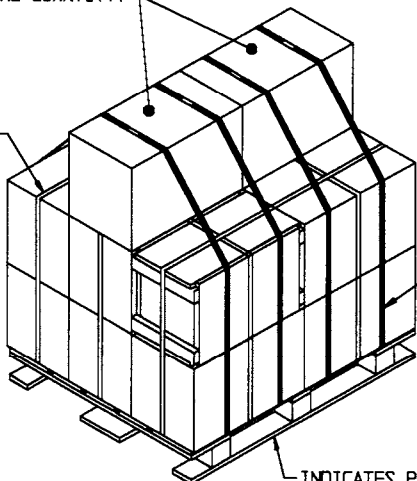
SECUREMENT OF TOP-CLEATED BOXES

SPECIAL NOTES:

1. SHIPMENTS OF PALLET OR SKIDDED UNITS OF AMMUNITION AND/OR COMPONENTS SHOULD CONSIST OF FULL-HEIGHT UNITS TO THE MAXIMUM EXTENT POSSIBLE. HOWEVER, THE END OF A LOT OR THE QUANTITY OF ITEMS NEEDED TO FILL A REQUISITION, MAY NECESSITATE THE SHIPMENT OF ONE OR MORE LEFTOVER BOXES. LEFTOVER BOXES ARE DESCRIBED AS A QUANTITY OF BOXES WHICH IS INSUFFICIENT FOR A FULL-LAYERED PARTIAL UNIT FOR SHIPMENT EITHER ON TOP OF A LOAD AS SHOWN ON PAGE 69 OR WITHIN A TIER AS SHOWN ON PAGE 70. THEY ARE USUALLY BOXES OF THE SAME AMMUNITION ITEM AS THE BALANCE OF THE LOAD ALTHOUGH THEY MAY BE ANY OTHER COMPATIBLE ITEM.
2. SHIPMENT OF LEFTOVER BOXES IS APPLICABLE FOR CONUS AND OCONUS MOTOR CARRIER SHIPMENTS FROM DEPOT TO DEPOT, OR FROM DEPOTS TO POSTS, CAMPS, AND STATIONS, OR, UPON APPROVAL FROM HIGHER HEADQUARTERS, FOR SHIPMENTS FROM LOAD, ASSEMBLE AND PACK PLANTS TO DEPOTS. CAUTION: A LOAD CONTAINING LEFTOVER BOXES IN AN AMOUNT WHICH IS LESS THAN A FULL LAYER, AND SECURED TO THE TOP OF A FULL OR PARTIAL UNIT, MUST NOT BE DESTINED FOR BREAKBULK SHIPMENT OVERSEAS BY WATER CARRIER.
3. THE PROCEDURES ON THIS PAGE ARE PRESENTED AS GUIDANCE IN THE SECUREMENT OF LEFTOVER BOXES FOR SHIPMENT. THE VIEW AT TOP LEFT DEPICTS TWO LEFTOVER BOXES SECURED TO A FULL-HEIGHT UNIT WHEN THE BOXES ON THE UNIT HAVE TOP CLEATS. THE VIEW AT LEFT BELOW DEPICTS TWO LEFTOVER BOXES SECURED TO A FULL-HEIGHT UNIT WHEN THE BOXES ON THE UNIT DO NOT HAVE TOP CLEATS. THE QUANTITIES SHOWN ARE TYPICAL. THE PROCEDURES ARE ALSO APPLICABLE FOR SECUREMENT OF LEFTOVER BOXES TO PARTIAL UNITS FOR SHIPMENT ON TOP OF A LOAD. SEE SPECIAL NOTE 5 ON PAGE 69 FOR LIMITATIONS. IN ADDITION, THE PROCEDURES ARE APPLICABLE FOR SECURING LEFTOVER BOXES TO A PARTIAL UNIT FOR SHIPMENT WITHIN A TIER. SEE SPECIAL NOTE 7 ON PAGE 70 FOR LIMITATIONS.
4. THE QUANTITY OF LEFTOVER BOXES WHICH CAN BE SECURED TO FULL OR PARTIAL UNITS MAY VARY FROM ONE TO NOT MORE THAN THE QUANTITY IN ONE LAYER ON THE UNIT. IN OTHER WORDS, NOT MORE THAN THREE BOXES CAN BE STRAPPED TO A 3-BOX LONG UNIT. LEFTOVER BOXES MUST NOT BE STACKED. IF THE QUANTITY OF LEFTOVER BOXES TO BE SHIPPED IS MORE THAN THE QUANTITY IN ONE FULL LAYER, BOXES MUST BE STRAPPED TO MORE THAN ONE UNIT.
5. LEFTOVER BOXES MUST BE SECURED TO A FULL OR PARTIAL UNIT WITH A MINIMUM OF TWO PIECES OF STEEL STRAPPING (SEPARATE FROM UNIT STRAPS) OF A SIZE AT LEAST AS HEAVY AS THE STRAPPING USED TO SECURE THE BOXES ON THE PALLET OR SKIDDED UNIT UNDERNEATH THE LEFTOVER BOXES TO THE PALLET OR SKIDDED BASE. THE "SECUREMENT OF TOP-CLEATED BOXES" DETAIL ABOVE DEPICTS A TYPICAL STRAP APPLICATION FOR BOXES HAVING TOP CLEATS. THREAD A STRAP UNDER THE TOP LAYER OF BOXES, AS NEAR AS PRACTICAL TO THE ADJACENT UNIT STRAP, ENCIRCLE THE LEFTOVER BOXES, TENSION, AND SEAL THE JOINT WITH ONE DOUBLE NOTCHED SEAL. THE "SECUREMENT OF NON-TOP-CLEATED BOXES" DETAIL, LOWER LEFT, DEPICTS A TYPICAL STRAP APPLICATION FOR BOXES WHICH DO NOT HAVE TOP CLEATS. THREAD A STRAP UNDER THE TOP DECK BOARDS (AS APPLICABLE) AS NEAR AS PRACTICAL TO A PALLET POST, COMPLETELY ENCIRCLE THE PALLETIZED OR SKIDDED UNIT AND THE LEFTOVER BOXES, TENSION, AND SEAL THE JOINT WITH ONE DOUBLE NOTCHED SEAL.

INDICATES TWO LEFTOVER BOXES AS A TYPICAL QUANTITY.

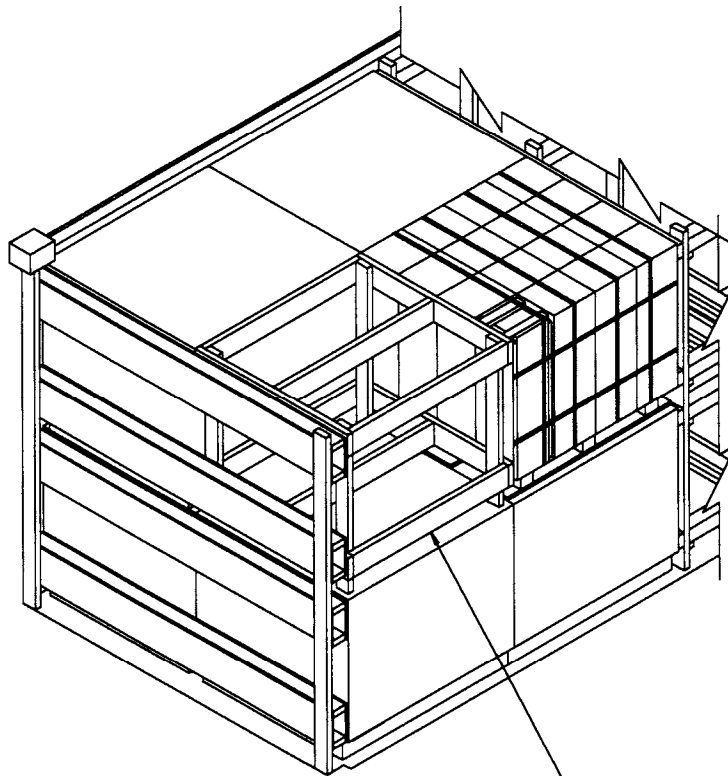
INDICATES UNITIZING STRAP OF BASIC UNIT.



INDICATES UNITIZING STRAP, OF A SIZE AT LEAST AS HEAVY AS THE UNIT STRAPS, SEALED WITH ONE DOUBLE NOTCHED SEAL.

INDICATES PALLET.

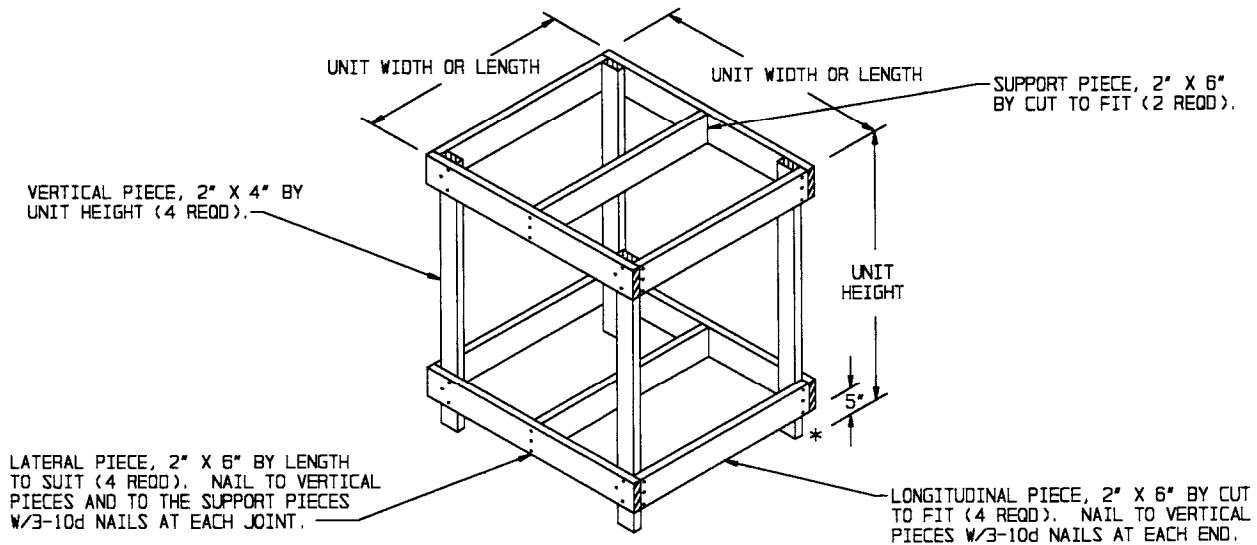
SECUREMENT OF NON-TOP-CLEATED BOXES



TYPICAL OMITTED UNIT ASSEMBLY (AS REQD).
SEE THE DETAIL BELOW.

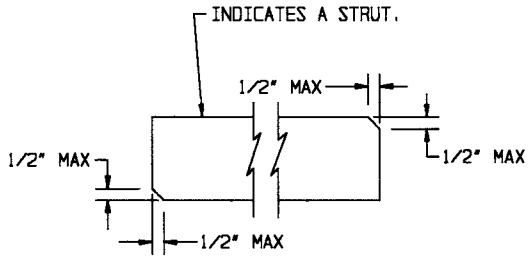
TYPICAL REDUCED LOAD

SEE GENERAL NOTE "O" ON PAGE 2.



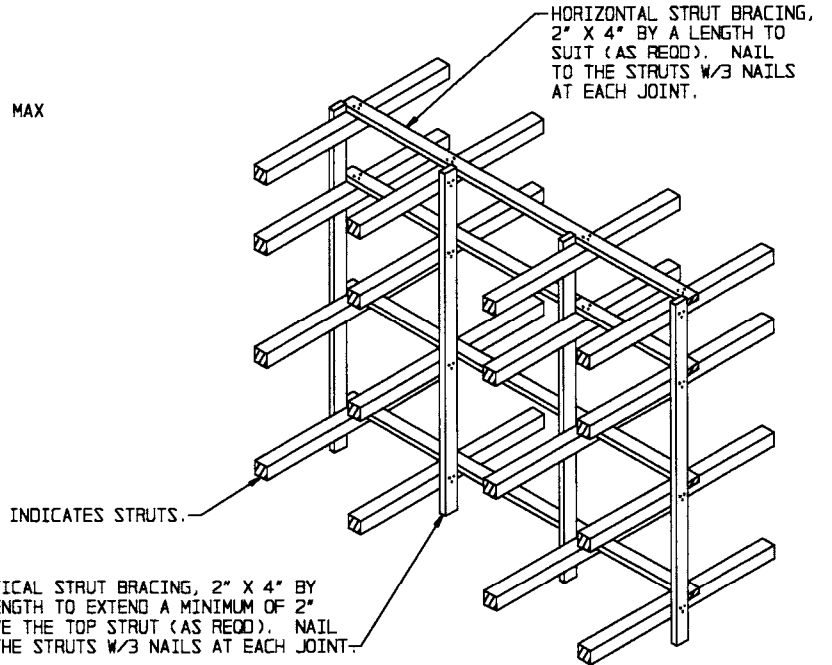
TYPICAL OMITTED UNIT ASSEMBLY

THE ASSEMBLY AS DEPICTED ABOVE IS FOR USE IN PLACE OF AN OMITTED LOADING UNIT, AND WILL BE REQUIRED FOR SOME LOADS TO PROVIDE A ONE OR TWO-WIDE LOADING PATTERN THROUGHOUT THE LENGTH OF THESE LOADS. THE MAXIMUM NUMBER OF OMITTED-UNIT ASSEMBLIES ALLOWED IN A LOAD ARE AS FOLLOWS: ONE ASSEMBLY FOR A ONE-HIGH, TWO-WIDE LOAD CONFIGURATION AND THREE ASSEMBLIES FOR A TWO-HIGH, TWO-WIDE LOAD CONFIGURATION.



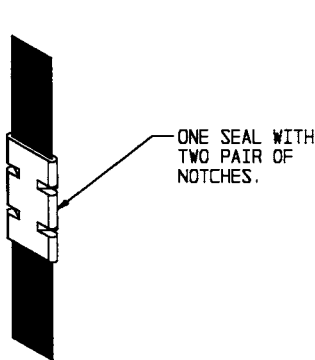
BEVEL-CUT

IF DESIRED, EACH END OF A STRUT MAY BE BEVEL-CUT AS SHOWN ABOVE TO FACILITATE THE ACHIEVEMENT OF A TIGHT CENTER-OF-LOAD FIT.



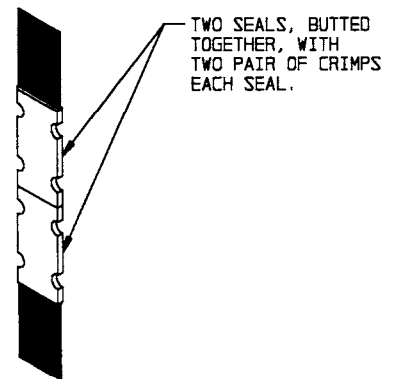
TYPICAL STRUT BRACING

THE STRUT BRACING SHOWN IS FOR A 2-HIGH LOAD. THE PROCEDURE MAY BE ADAPTED FOR USE IN A 1-HIGH LOAD OR OTHER HEIGHT LOADS.



STRAP JOINT A

METHOD OF SECURING A STRAP JOINT WHEN USING A NOTCH-TYPE SEALER.



STRAP JOINT B

METHOD OF SECURING A STRAP JOINT WHEN USING A CRIMP-TYPE SEALER.

END-OVER-END LAP JOINT DETAILS

LOADING CONFIGURATION CHART

DODIC	NSN	LOADING UNIT DIMENSIONS (INCHES/POUNDS)				LOAD PAGE	END BLKNG ASSY.	STRUT	SIDE FILL ASSY.	CENTER FILL ASSY.	CENTER GATE	CRIB FILL ASSY.	FILLER ASSY.	LOADNG UNITS PER CNTR.	APPROX GROSS WEIGHT (LBS)
		LEN.	WIDTH	HEIGHT	WGT.										
ML11	1375-01-082-9920	40-1/4	50-1/2	30	1181	8	A-4		A18		A11		16	25,670	
ML12	1375-01-083-2822	40-1/4	50-1/2	30	1258	8	A-4		A18		A11		16	26,900	
ML13	1375-01-082-9921	40-1/4	50-1/2	30	1335	8	A-4		A18		A11		16	27,970	
ML14	1375-01-082-9922	40-1/4	50-1/2	30	1258	8	A-4		A18		A11		16	26,900	
ML15	1375-01-082-9923	40-1/4	50-1/2	30	1721	8	B-4		A18		A11		16	34,370	
ML16	1375-01-082-9924	40-1/4	50-1/2	30	1721	8	B-4		A18		A11		16	34,370	
ML17	1375-01-083-6325	40-1/4	50-1/2	30	1490	8	A-4		A18		A11		16	30,610	
ML18	1375-01-082-9925	40-1/4	50-1/2	30	1644	8	B-4		A18		A11		16	33,140	
ML19	1375-01-083-2821	40-1/4	50-1/2	30	1644	8	B-4		A18		A11		16	33,140	
N278	1390-01-032-6130	43-7/8	51-1/4	31-1/4	2103	20	B-4*		B23				16	40,540	
N278	1390-00-889-2044	43-7/8	51-1/4	31-1/4	2060	20	B-4*		B23				16	39,850	
N285	1390-01-247-4013	43-7/8	51-1/4	31-1/4	1664	20	B-4*		B23				16	33,520	
N285	1390-00-805-0692	43-7/8	51-1/4	31-1/4	1743	20	B-4*		B23				16	34,780	
N285	1390-01-158-8194	43-7/8	51-1/4	31-1/4	1671	20	B-4*		B23				16	33,630	
N286	1390-01-247-4012	43-7/8	51-1/4	31-1/4	1736	20	B-4*		B23				16	34,670	
N286	1390-00-169-5864	43-7/8	51-1/4	31-1/4	1743	20	B-4*		B23				16	34,780	
N286	1390-01-158-8193	43-7/8	51-1/4	31-1/4	1743	20	B-4*		B23				16	34,780	
N288	1390-01-050-8897	40-1/2	49-3/4	49	2538	36	C-2		G59			A11	8	26,840	
N331	1390-00-324-1419	40-1/2	46-1/8	45-1/2	3537	44	D-2	35-3/4	A19		038		8	34,830	
N331	1390-00-926-3932	43-7/8	51-1/4	31-1/4	2247	20	C-4*		B23		B22		16	42,820	
N334	1390-00-182-3029	35-1/4	45-1/2	49-3/4	1847	32	C-2		035		034	B35	10	25,090	
N335	1390-00-187-5392	43-7/8	51-1/4	31-1/4	2085	20	B-4*		B23		B22		16	40,250	
N335	1390-00-889-2014	36	47-5/8	51-1/8	3011	48	D-2		G62		A18		9	33,720	
N335	1390-00-892-4302	43-7/8	51-1/4	31-1/4	2060	20	B-4*		B23		B22		16	39,850	
N340	1390-01-132-7481	43-7/8	51-1/4	31-1/4	1743	20	B-4*		B23		B22		16	34,780	
N340	1390-00-574-7705	43-7/8	51-1/4	31-1/4	1743	20	B-4*		B23		B22		16	34,780	
N402	1390-00-764-9124	43-7/8	51-1/4	31-1/4	1599	20	B-4*		B23		B22		16	32,480	
N402	1390-00-764-9124	43-7/8	51-1/4	47-3/4	3112	20	D-2*		B23		B22		8	31,630	
N463	1390-00-182-3132	43-7/8	51-1/4	47-3/4	3112	20	D-2*		B23		B22		8	31,630	
N464	1390-01-202-1710	43-7/8	51-1/4	31-1/4	1888	20	B-4*		B23		B22		16	37,100	
N464	1390-01-137-5444	43-7/8	51-1/4	31-5/8	1902	20	B-4*		B23		B22		16	37,330	
N464	1390-01-137-5444	43-7/8	51-1/4	31-1/4	1888	20	B-4*		B23		B22		16	37,100	
N464	1390-01-020-0096	43-7/8	51-1/4	31-5/8	1902	20	B-4*		B23		B22		16	37,330	
N464	1390-01-020-0096	43-7/8	51-1/4	31-1/4	1888	20	B-4*		B23		B22		16	37,100	
N523	1390-00-892-4202	36	48-1/4	39-1/4	954	60	A-4		G62		H63	F63	20	25,820	
N523	1390-01-329-0777	36	48-1/4	39-1/4	1305	60	B-4		G62		H63	F63	20	32,880	

*SEE THE NOTE ON PAGE 74.

