

APPROVED BY
BUREAU OF EXPLOSIVES

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DATE 4/22/01

LOADING AND BRACING IN SIDE OPENING ISO CONTAINERS OF 2,000 POUND GUIDED BOMB UNITS (GBU-10/MK84), COMPLETE ROUND

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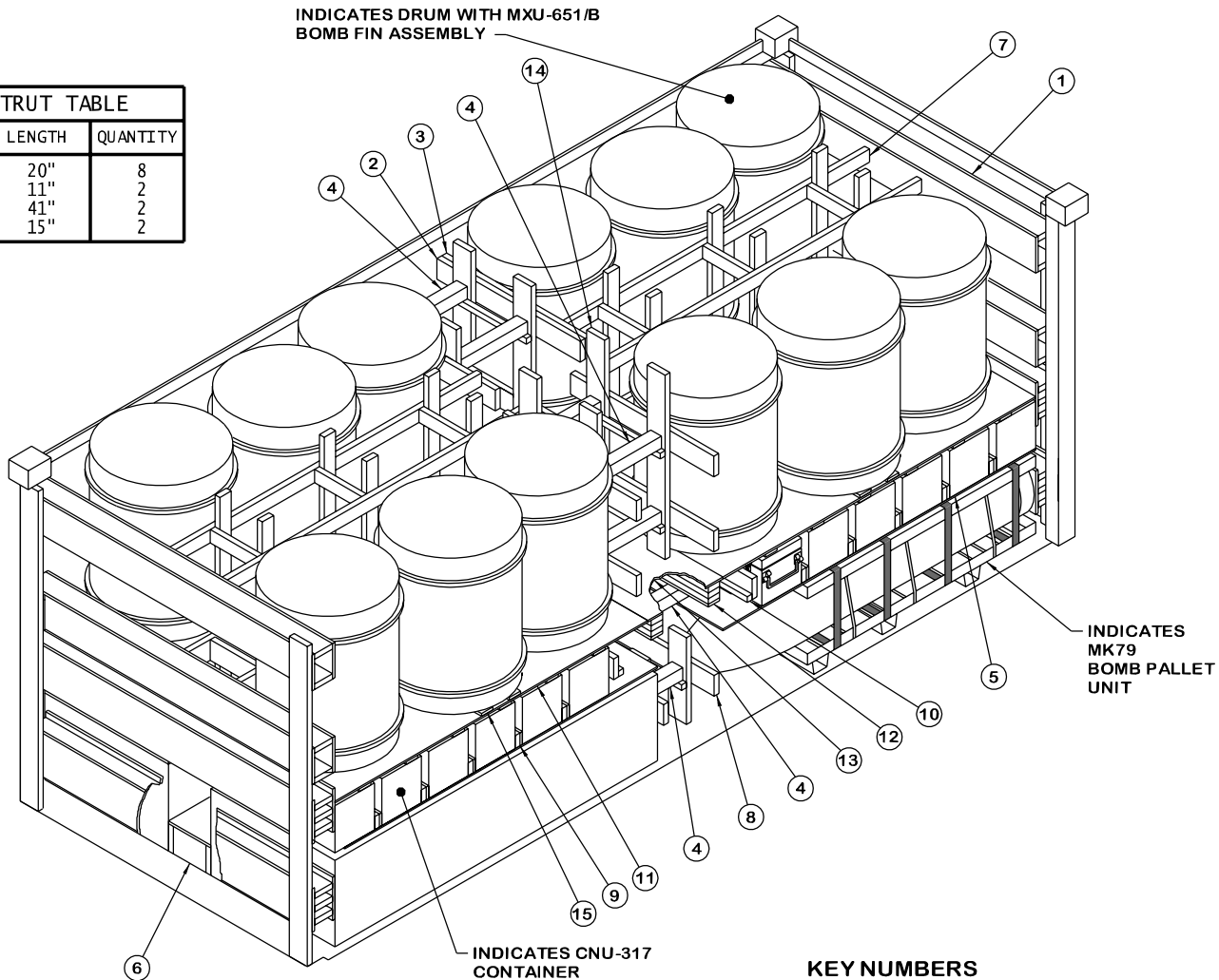
● **LOADING AND BRACING SPECIFICATIONS SET FORTH WITHIN THIS DRAWING ARE APPLICABLE TO LOADS THAT ARE TO BE SHIPPED BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC) RAIL CARRIER SERVICE. THESE SPECIFICATIONS MAY ALSO BE USED FOR LOADS THAT ARE TO BE MOVED BY MOTOR OR WATER CARRIERS.**

U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, U.S. ARMY OPERATIONS SUPPORT COMMAND <i>Timothy R. Fore</i>	ENGINEER	BASIC		DO NOT SCALE			
		REV.		WEBSITE: HTTP://WWW.DAC.ARMY.MIL			
	TECHNICIAN	BASIC	PATRICK DOUGHERTY	MARCH 2001			
		REV.					
	DRAFTSMAN	BASIC					
		REV.					
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND <i>J. P. White</i> U.S. ARMY DEFENSE AMMUNITION CENTER	TRANSPORTATION ENGINEERING DIVISION	<i>G. L. Willis</i>		CLASS	DIVISION	DRAWING	FILE
	VALIDATION ENGINEERING DIVISION	<i>Wayne Lewis</i>		19	48	8717	SP15M11
	ENGINEERING DIRECTORATE	<i>William R. French</i>					

PROJECT SP 416-01

STRUT TABLE		
GATE	LENGTH	QUANTITY
A	20"	8
B	11"	2
C	41"	2
D	15"	2



ISOMETRIC VIEW

(KEY NUMBERS CONTINUED)

- ⑪ DECKING ASSEMBLY B (2 REQD). SEE DETAIL ON PAGE 7. POSITION ON TOP OF CNU-317/E CONTAINERS.
- ⑫ SOLID FILL, 4" WIDE MATERIAL BY 48" LENGTH BY THICKNESS AS REQUIRED TO PROVIDE FOR A DECK HEIGHT EVEN WITH DECKING PIECE MARKED ⑪. NAIL FIRST PIECE TO THE STRUT, PIECE MARKED ④ W/2 APPROPRIATELY SIZED NAILS AT EACH JOINT. LAMINATE ADDITIONAL PIECES TO FIRST PIECE W/4 APPROPRIATELY SIZED NAILS.
- ⑬ DECKING, PLYWOOD, 1/2" THICK BY 48" WIDE BY LENGTH TO SUIT (REF: 22") (1 REQD). NAIL THROUGH DECKING INTO SOLID FILL PIECE MARKED ⑫ WITH 4 APPROPRIATELY SIZED NAILS AT EACH END.
- ⑭ CENTER GATE D (2 REQD). SEE DETAIL ON PAGE 9. POSITION BETWEEN THE DRUMS AT THE DOOR SIDE.
- ⑮ RISER (4 REQD). SEE RISER DETAIL ON PAGE 9. POSITION A RISER UNDER THE MIDDLE DRUM IN EACH GROUP OF THREE DRUMS TO NEST DRUMS TIGHTLY TOGETHER.

KEY NUMBERS

- ① END BLOCKING ASSEMBLY (2 REQD). SEE DETAIL ON PAGE 5.
- ② CENTER GATE A (2 REQD). SEE DETAIL ON PAGE 8. POSITION BETWEEN THE BOMB PALLET UNITS AND THE DRUMS AT THE FAR WALL.
- ③ SOLID FILL, 6" WIDE MATERIAL BY 44" LONG BY THICKNESS AS REQUIRED TO PROVIDE FOR A TIGHT LOAD BETWEEN DRUMS. SEE GENERAL NOTE "E" ON PAGE 2.
- ④ STRUT, 4" X 4" BY LENGTH AS REQUIRED. SEE STRUT TABLE ON THIS PAGE. POSITION BETWEEN CENTER GATES AND TOENAIL TO THE CENTER GATES W/2-12d NAILS AT EACH END. SEE THE "BEVEL-CUT DETAIL" ON PAGE 12.
- ⑤ DECKING ASSEMBLY A (4 REQD). SEE DETAIL ON PAGE 7. POSITION DECKING ASSEMBLY ON TOP OF THE TWO HIGH STACKS OF BOMB PALLET UNITS AT THE FAR WALL AND ON TOP OF THE ONE HIGH STACKS OF BOMB PALLET UNITS AT THE DOOR SIDE.
- ⑥ CRIB FILL A (2 REQD). SEE DETAIL ON PAGE 6. POSITION ON DECK AT EITHER SIDE OF THE CONTAINER BETWEEN THE TWO HIGH AND ONE HIGH STACKS OF BOMB PALLET UNITS.
- ⑦ CRIB FILL B (2 REQD). SEE DETAIL ON PAGE 6. PLACE IN POSITION ON TOP OF CRIB FILL PIECE MARKED ⑥ AFTER THE BOMB PALLET UNITS AND THE DRUMS AT THE FAR WALL ARE IN POSITION.
- ⑧ CENTER GATE B (2 REQD). SEE DETAIL ON PAGE 8. POSITION ON THE FLOOR BETWEEN THE NOSES OF THE BOMB PALLET UNITS AT THE DOOR SIDE.
- ⑨ SEPARATOR PIECE, 1" AND 2" X 4" X 48" (10 EACH REQD). LAMINATE THE 1" PIECE TO THE 2" PIECE W/5-6d NAILS. INSTALL BETWEEN THE CNU-317/E CONTAINERS.
- ⑩ CENTER GATE C (2 REQD). SEE DETAIL ON PAGE 9. POSITION ON TOP OF DECKING ASSEMBLIES "A", AT EITHER END OF THE CNU-317/E CONTAINER STACKS.

(CONTINUED AT LEFT)

- J. 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 25.4MM AND ONE POUND EQUALS 0.454 KG.
- K. 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.
- L. REQUIREMENTS CITED WITHIN THE ASSOCIATION OF AMERICAN RAILROADS (AAR) INTERMODAL LOADING GUIDE 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.
- M. 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.
- N. WHETHER A CONTAINER IS FULL OR IS 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.
- O. ANTI-CHAFING MATERIAL, CONSISTING OF NEUTRAL BARRIER MATERIAL, PLYWOOD, OR HARDBOARD, MAY BE INSTALLED AT POINTS OF CONTACT BETWEEN THE LADING AND THE SIDE OPENING CONTAINER TO PREVENT CHAFING DAMAGE TO CONTAINER PAINT AND MARKINGS.

- 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 2,000 LB GBU-10 (MK84) BOMBS AND ASSOCIATED COMPONENTS IN A SIDE OPENING CONTAINER. SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE CONTAINER WITH MK84 BOMBS AND COMPONENTS. SEE PAGE 4 FOR DETAILS OF THE COMPONENTS. CAUTION: REGARDLESS OF THE QUANTITY OF UNITS TO BE SHIPPED, THE "MAXIMUM GROSS WEIGHT" OF THE SIDE OPENING ISO CONTAINER MUST NOT BE EXCEEDED.
- C. THE LOAD AS SHOWN IS 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 (PAGE 10) AND 89-1/2" HIGH (PAGE 2) 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 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 CONTAINER.
- 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.
- 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. PIECES OF DUNNAGE MATERIAL MUST BE LAMINATED TO THE BUFFER PIECES ON THE END BLOCKING ASSEMBLIES TO PROVIDE A FLAT SURFACE FOR THE 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". NOTE THAT SOME CONTAINERS ARE EQUIPPED WITH "TIE-BARS" IN THE CORNER SLOT, WHICH PRECLUDE THE USE OF A FULL HEIGHT FILL PIECE. WHEN "TIE-BARS" ARE PRESENT, THE FILL PIECE MUST BE INSTALLED IN SEGMENTS DESIGNED TO FIT BETWEEN THE "TIE-BARS" VERTICALLY. THE FILL PIECE(S) IS NOT REQUIRED WHEN THE CORNER PORTIONS OF THE CONTAINER ENDWALLS ARE SMOOTH AND FLAT. DO NOT ALLOW ANY DUNNAGE ASSEMBLY TO CONTACT THE CONTAINER ENDWALLS, ONLY THE CORNER POSTS OF THE CONTAINER SHOULD BE USED FOR LONGITUDINAL BLOCKING.
- H. CAUTION: DO NOT NAIL DUNNAGE MATERIAL TO THE CONTAINER WALLS OR FLOOR. ALL NAILING WILL BE WITHIN THE DUNNAGE. PORTIONS OF THE CONTAINER DEPICTED WITHIN THIS DRAWING, SUCH AS THE SIDE DOORS, HAVE NOT BEEN SHOWN IN THE LOAD VIEW FOR CLARITY PURPOSES.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
MK84 BOMB PALLET UNIT	6	24,462 LBS
CNU-317 CONTAINER		
WITH MAU-169D/B	12	1,200 LBS
DRUM WITH		
MXU-651/B	12	3,480 LBS
Fw26 BOX	2	52 LBS
G119 BOX	2	78 LBS
CY72 BOX	1	4 LBS
DUNNAGE		1,859 LBS
CONTAINER		6,050 LBS
TOTAL WEIGHT		37,185 LBS (APPROX)

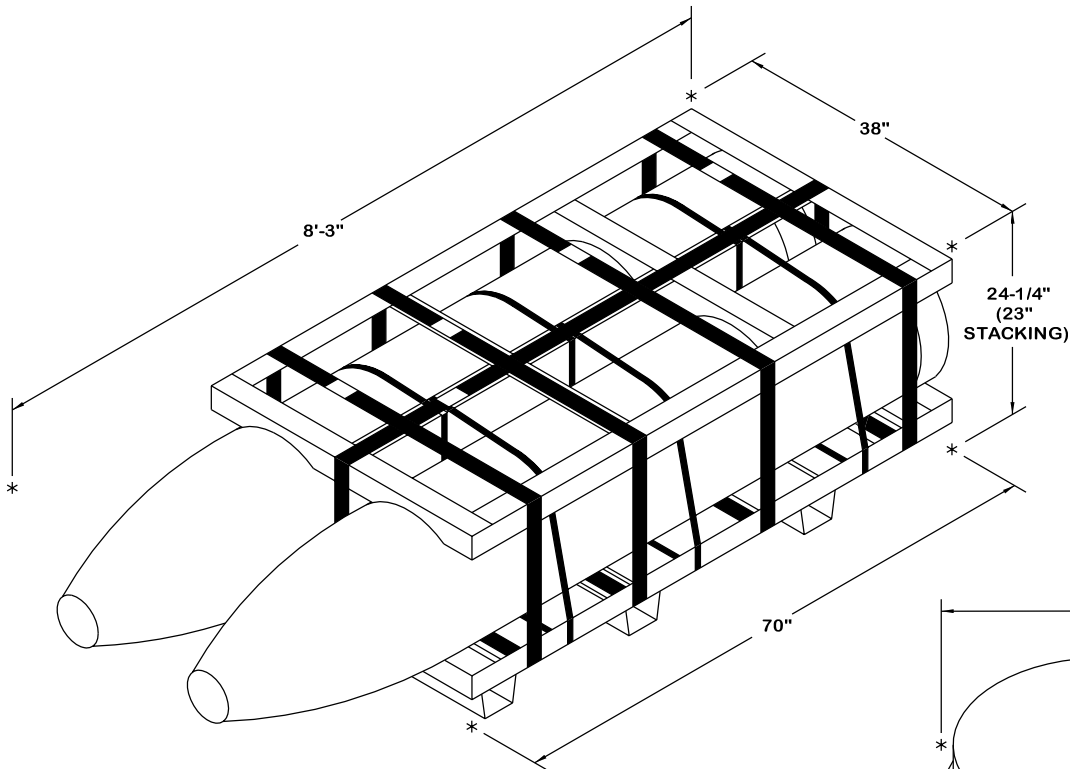
BILL OF MATERIAL

LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	144	48
2" X 2"	36	12
2" X 4"	307	205
2" X 6"	331	331
2" X 8"	39	52
4" X 4"	25	33
NAILS	NO. REQD	POUNDS
6d (2")	787	4-3/4
10d (3")	496	6-1/4
12d (3-1/4")	52	1
PLYWOOD, 1/2" - 172.66 SQ FT REQD		237.41 LBS
PLYWOOD, 3/4" - 119.99 SQ FT REQD		247.48 LBS

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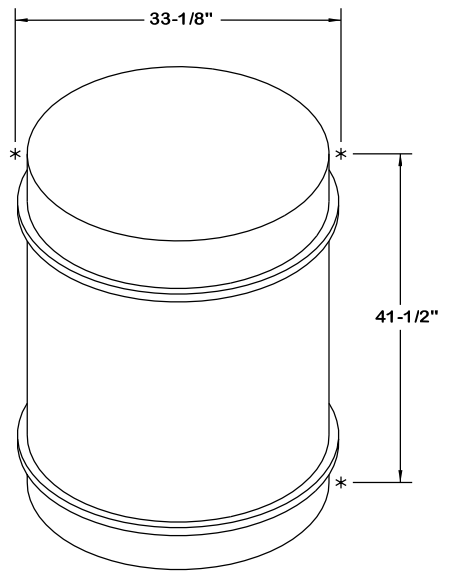
MATERIAL SPECIFICATIONS

- LUMBER - - - - - : SEE TM 743-200-1 (DUNNAGE LUMBER) AND VOLUNTARY PRODUCT STANDARD PS 20.
- NAILS - - - - - : ASTM F1667; COMMON STEEL NAIL (NLCMS OR NLCMMS).
- PLYWOOD - - - - - : COMMERCIAL ITEM DESCRIPTION A-A-55057, 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.
- ANTI-CHAFING MATERIAL - - - - - : MIL-B-121 (OR EQUAL); NEUTRAL BARRIER MATERIAL.
- HARDBOARD - - - - - : ANSI/AHA A135.4, CLASS 1.



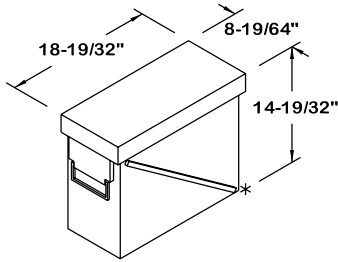
MK84 (F275) BOMBS ON MK79 PALLETS

GROSS WEIGHT - - - - - 4,077 LBS (APPROX)
 CUBE - - - - - 52.8 CU FT (APPROX)



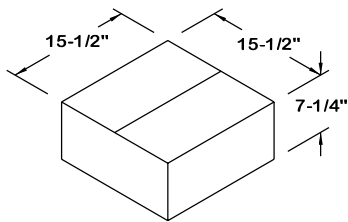
MXU-651/B FIN ASSEMBLY (F761) IN DRUM

GROSS WEIGHT - - - - - 290 LBS (APPROX)
 CUBE - - - - - 20.7 CUBIC FEET (APPROX)



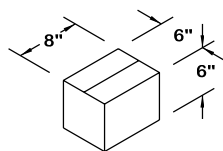
FMU-139A/B (G119) IN M548 METAL BOX

GROSS WEIGHT - - - - - 39 LBS (APPROX)
 CUBE - - - - - 1.3 CUBIC FEET (APPROX)



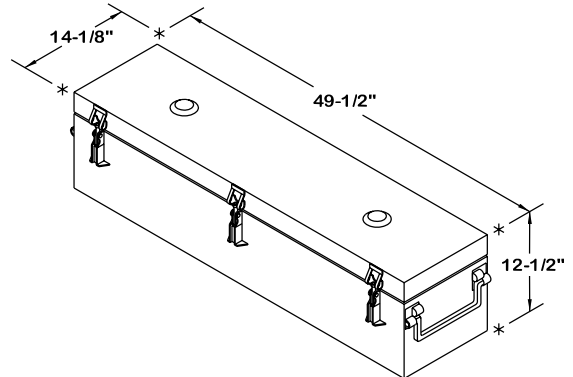
SWIVEL AND LOOP ASSEMBLY (CY72) IN FIBERBOARD BOX

GROSS WEIGHT - - - - - 5 LBS (APPROX)
 CUBE - - - - - 1.0 CUBIC FEET (APPROX)



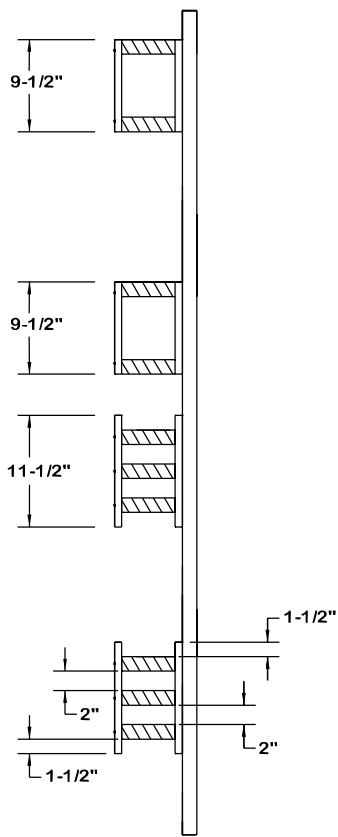
SUPPORT CUP(FW26) IN FIBERBOARD BOX

GROSS WEIGHT - - - - - 26 LBS (APPROX)
 CUBE - - - - - 0.17 CUBIC FEET (APPROX)

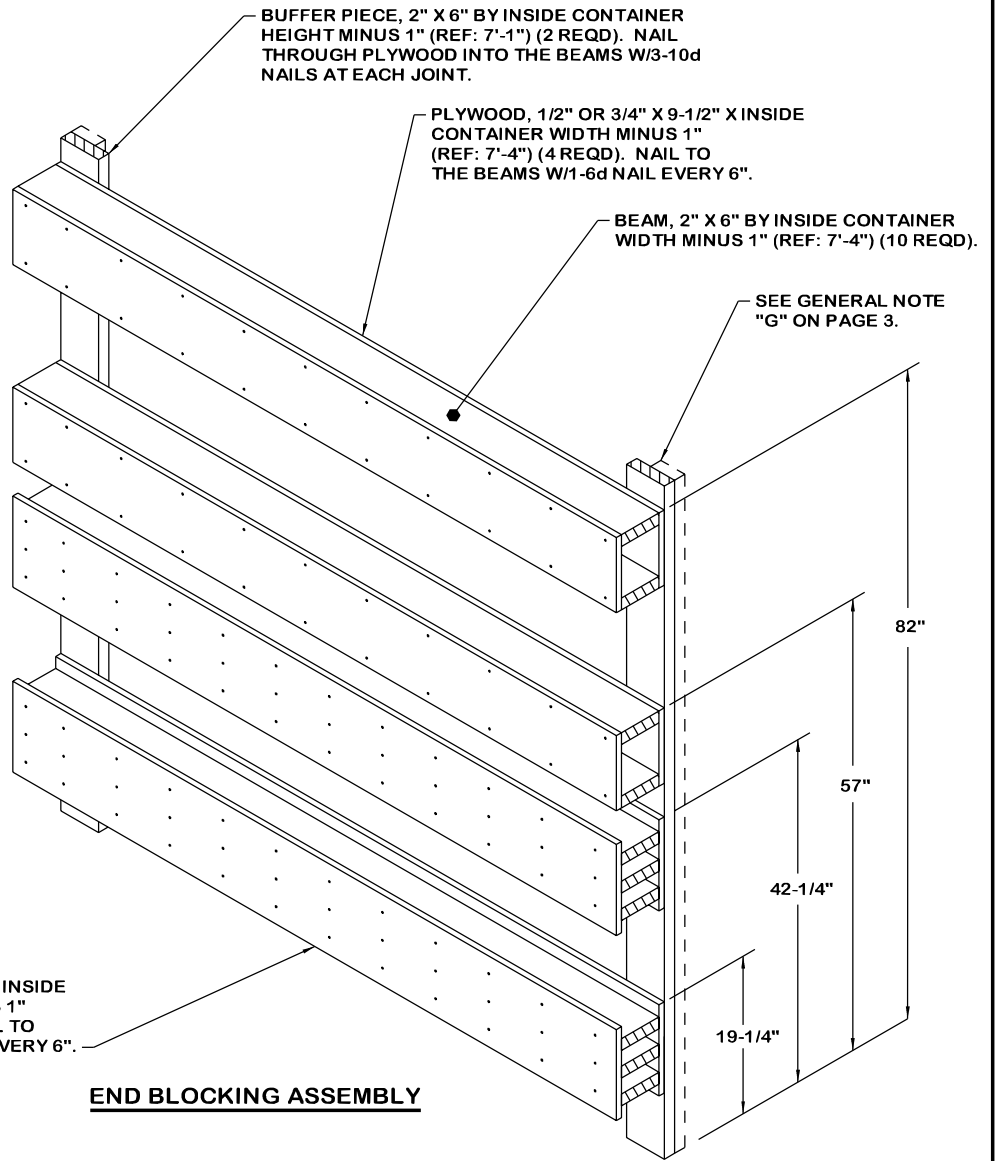


MAU-169D/B (E069) IN CNU-317 CONTAINER

GROSS WEIGHT - - - - - 100 LBS (APPROX)
 CUBE - - - - - 5.0 CUBIC FEET (APPROX)



VIEW A



END BLOCKING ASSEMBLY

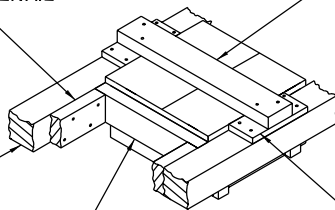
VIEW A

PLYWOOD, 3/4" X 11-1/2" X INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-4") (4 REQD). NAIL TO THE BEAMS W/1-6d NAIL EVERY 6".

CLEAT, 2" X 4" X 12" (2 REQD PER BOX). NAIL TO THE STRUT W/4-10d NAILS. TOENAIL TO CROSS BLOCKING W/1-10d NAIL.

HOLD DOWN, 2" X 4" X LENGTH TO SUIT (1 REQD). NAIL THROUGH FILLER INTO STRUT W/2-10d NAILS AT EACH END.

INDICATES STRUT.



FILLER, 4" WIDE MATERIAL BY THICKNESS AS REQUIRED (2 REQD). NAIL TO THE STRUTS W/2 APPROPRIATELY SIZED NAILS AT EACH END.

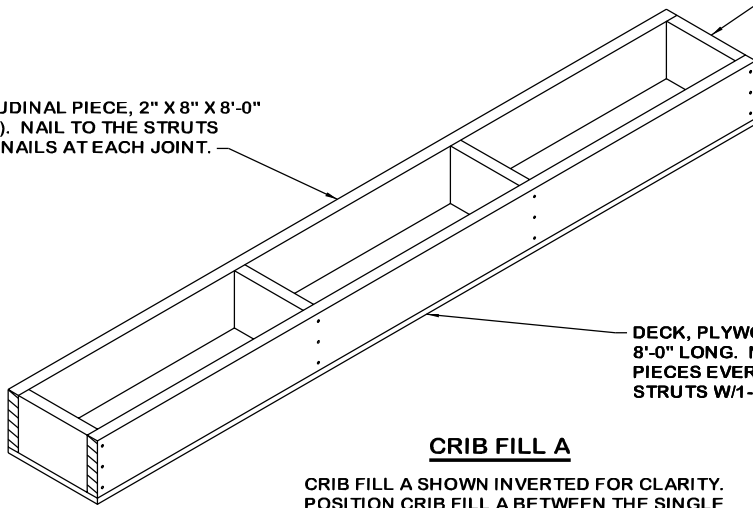
CROSS BLOCKING, 2" X 4" BY CUT TO FIT BETWEEN THE STRUTS (2 REQD PER BOX).

SECUREMENT OF MISCELLANEOUS BOXES

MISCELLANEOUS BOXES MAY ALSO BE PLACED IN THE VOID AREA BETWEEN THE LOAD BEARING PIECES OF THE CRIB FILL ASSEMBLIES. ADJUSTMENTS TO THE ABOVE DETAIL MAY BE MADE SO AS TO PROVIDE FOR SIMILAR SECUREMENT TO THE CRIB FILL ASSEMBLIES.

LONGITUDINAL PIECE, 2" X 8" X 8'-0"
(2 REQD). NAIL TO THE STRUTS
W/3-10d NAILS AT EACH JOINT.

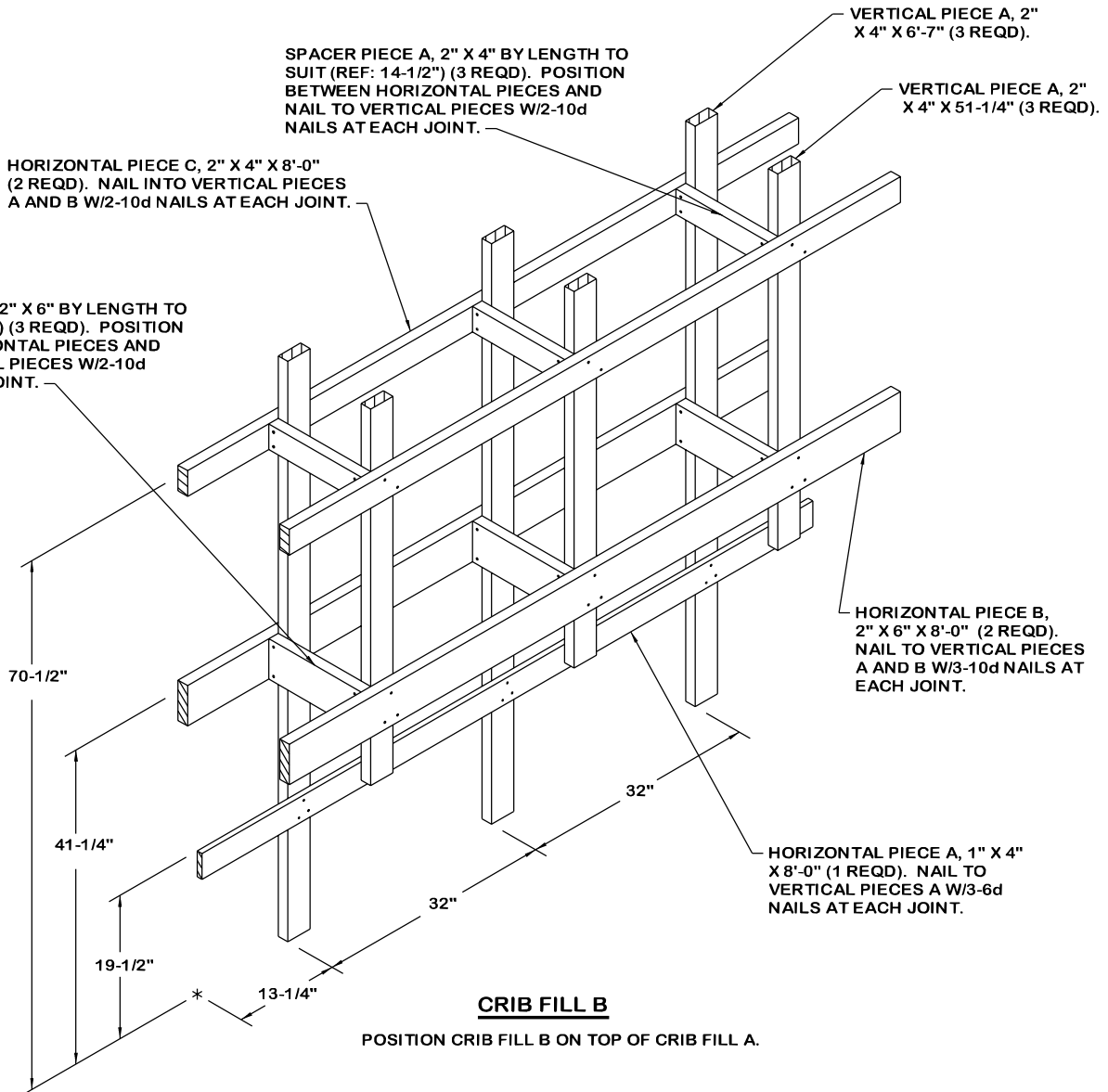
STRUT, 2" X 8" X CUT TO
FIT (REF: 10") (4 REQD).



DECK, PLYWOOD, 3/4" THICK X 13" X
8'-0" LONG. NAIL TO LONGITUDINAL
PIECES EVERY 8" W/6d NAILS AND TO
STRUTS W/1-6d NAIL AT EACH JOINT.

CRIB FILL A

CRIB FILL A SHOWN INVERTED FOR CLARITY.
POSITION CRIB FILL A BETWEEN THE SINGLE
AND DOUBLE STACK OF MK79 BOMB PALLET UNITS.



SPACER PIECE A, 2" X 4" BY LENGTH TO
SUIT (REF: 14-1/2") (3 REQD). POSITION
BETWEEN HORIZONTAL PIECES AND
NAIL TO VERTICAL PIECES W/2-10d
NAILS AT EACH JOINT.

VERTICAL PIECE A, 2"
X 4" X 6'-7" (3 REQD).

VERTICAL PIECE A, 2"
X 4" X 51-1/4" (3 REQD).

HORIZONTAL PIECE C, 2" X 4" X 8'-0"
(2 REQD). NAIL INTO VERTICAL PIECES
A AND B W/2-10d NAILS AT EACH JOINT.

SPACER PIECE B, 2" X 6" BY LENGTH TO
SUIT (REF: 14-1/2") (3 REQD). POSITION
BETWEEN HORIZONTAL PIECES AND
NAIL TO VERTICAL PIECES W/2-10d
NAILS AT EACH JOINT.

HORIZONTAL PIECE B,
2" X 6" X 8'-0" (2 REQD).
NAIL TO VERTICAL PIECES
A AND B W/3-10d NAILS AT
EACH JOINT.

HORIZONTAL PIECE A, 1" X 4"
X 8'-0" (1 REQD). NAIL TO
VERTICAL PIECES A W/3-6d
NAILS AT EACH JOINT.

70-1/2"

41-1/4"

19-1/2"

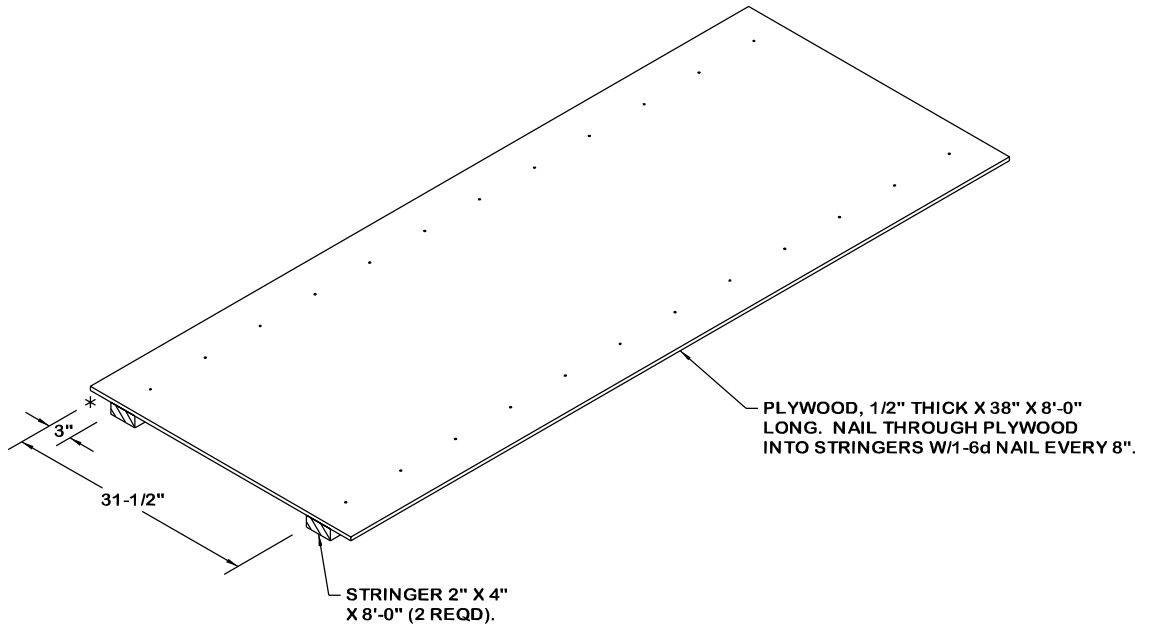
13-1/4"

32"

32"

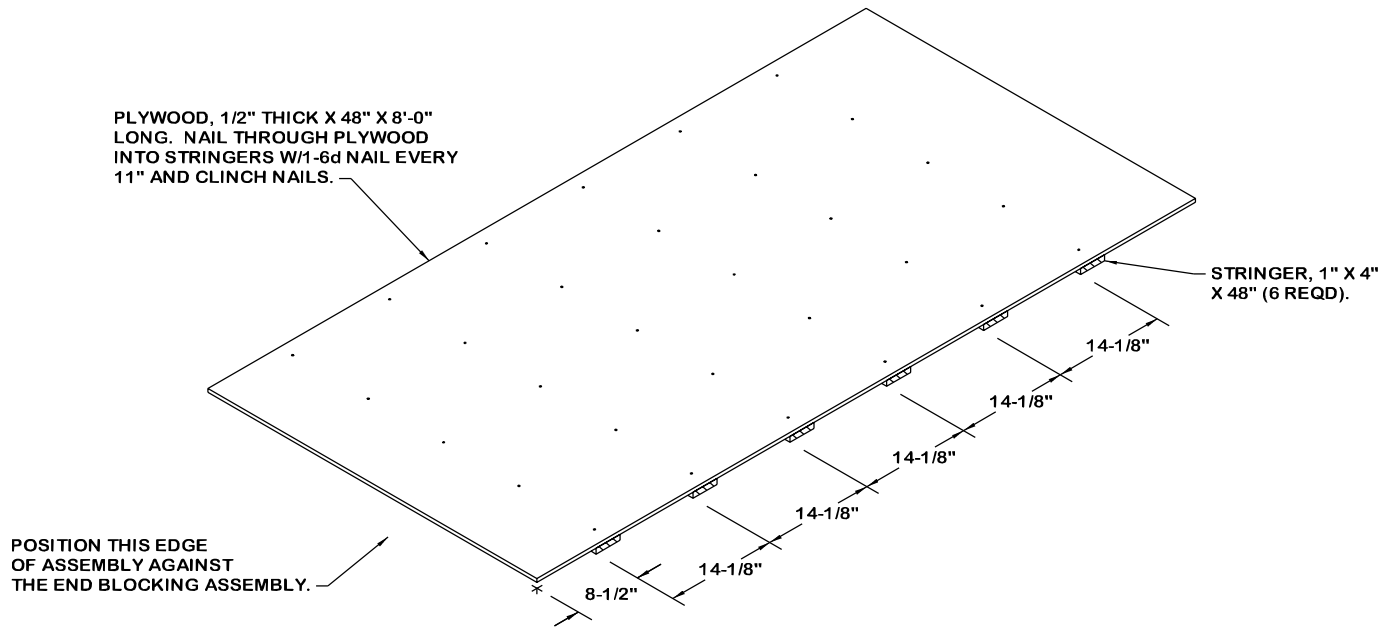
CRIB FILL B

POSITION CRIB FILL B ON TOP OF CRIB FILL A.



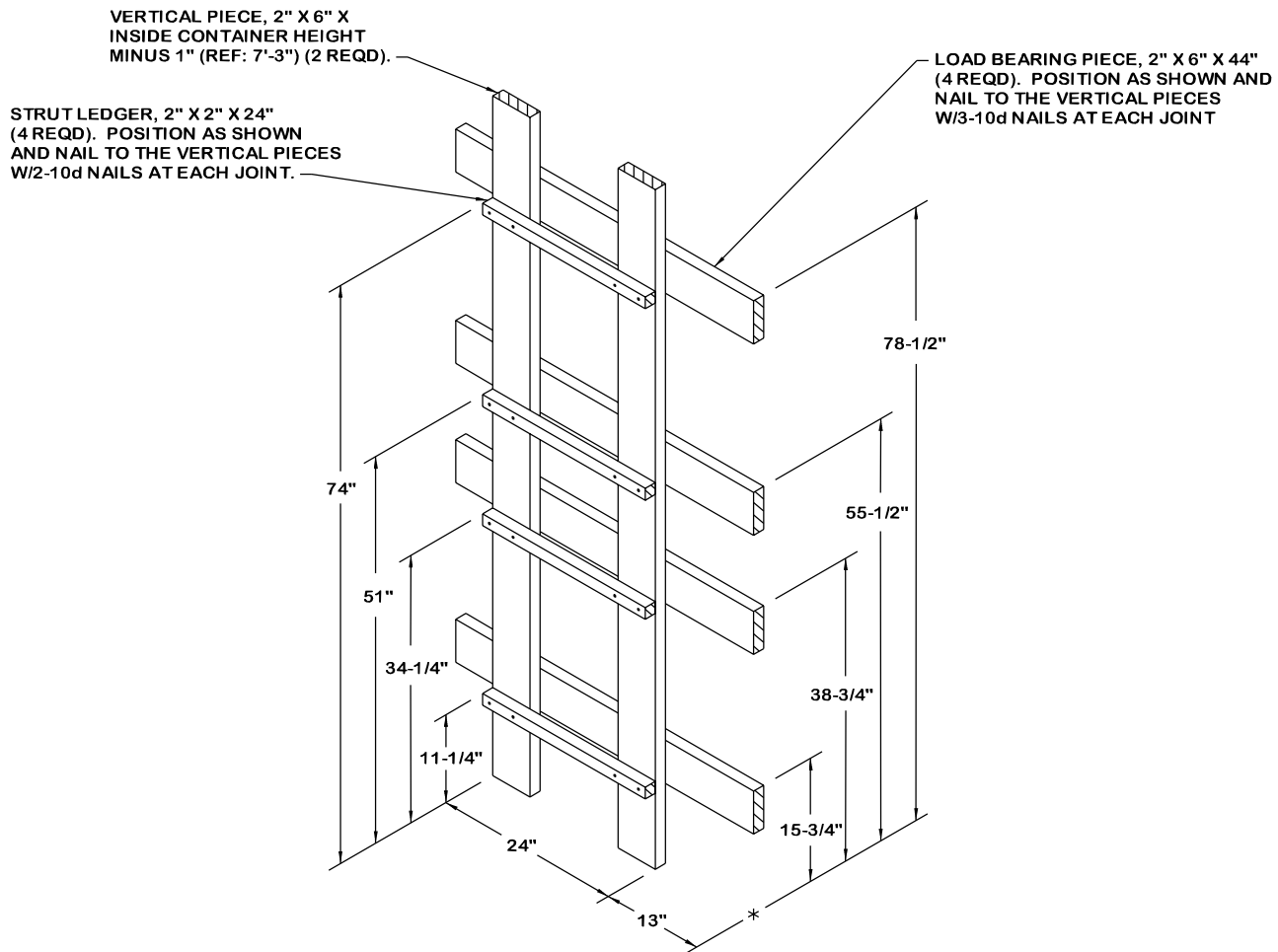
DECKING ASSEMBLY A

DECKING ASSEMBLY A SHALL BE POSITIONED ON TOP OF EACH DOUBLE STACK OF BOMB PALLET UNITS AT THE FAR WALL AND ON TOP OF THE SINGLE STACKS AT THE DOOR SIDE. NOTE: THE TWO ASSEMBLIES AT THE REAR WALL SHALL NOT HAVE STRINGERS. THE TWO ASSEMBLIES AT THE DOOR SIDE SHALL HAVE STRINGERS.



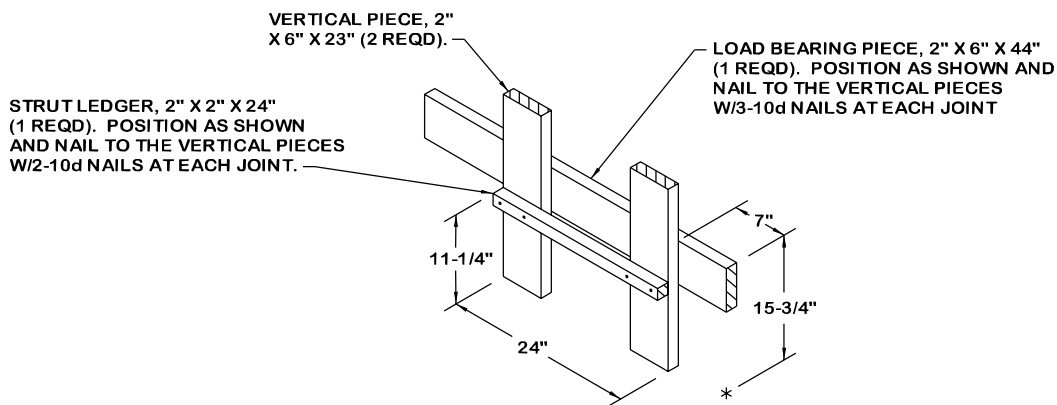
DECKING ASSEMBLY B

DECKING ASSEMBLY B SHALL BE POSITIONED ON TOP OF THE CNU-317/E CONTAINERS AT DOOR SIDE.



CENTER GATE A

A RIGHT HAND GATE IS SHOWN. THE LOAD AS SHOWN ON PAGE 2 REQUIRES ONE RIGHT HAND AND ONE LEFT HAND GATE. NOTE: THE VERTICAL PIECES MUST BE IN ALIGNMENT WITH THE NOSE END OF THE BOMBS.



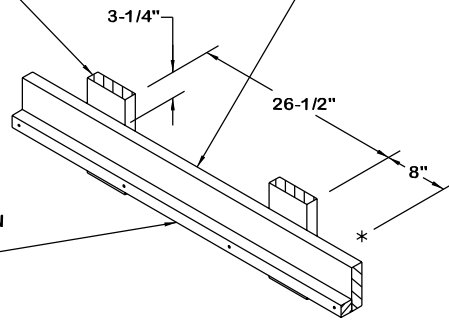
CENTER GATE B

A RIGHT HAND GATE IS SHOWN. THE LOAD AS SHOWN ON PAGE 2 REQUIRES ONE RIGHT HAND AND ONE LEFT HAND GATE. NOTE: THE VERTICAL PIECES MUST BE IN ALIGNMENT WITH THE NOSE END OF THE BOMBS.

VERTICAL PIECE, 2" X 6" X 12"
(2 REQD). POSITION AS SHOWN AND
NAIL TO THE HORIZONTAL PIECES
W/3-10d NAILS AT EACH JOINT.

HORIZONTAL PIECE, 2" X 6" X 48"
(1 REQD).

STRUT LEDGER, 2" X 2" X 48"
(1 REQD). POSITION AS SHOWN
AND NAIL TO THE VERTICAL
PIECES W/4-10d NAILS.

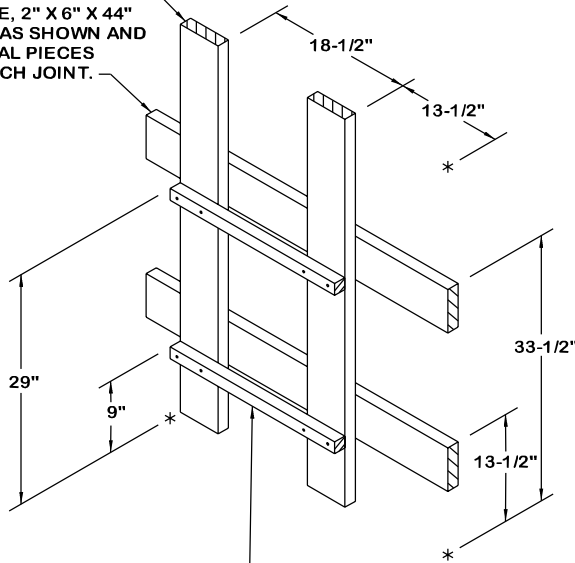


CENTER GATE C

NOTE: THE VERTICAL PIECES MUST BE POSITIONED AGAINST THE
SIDE OF THE CNU-317/E CONTAINER.

VERTICAL PIECE, 2" X 6"
X 49" (2 REQD).

LOAD BEARING PIECE, 2" X 6" X 44"
(2 REQD). POSITION AS SHOWN AND
NAIL TO THE VERTICAL PIECES
W/3-10d NAILS AT EACH JOINT.



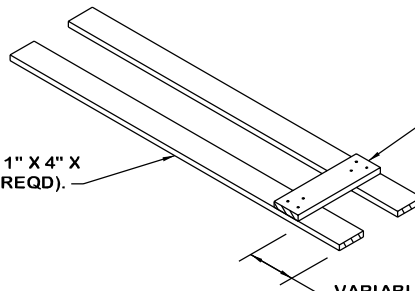
STRUT LEDGER, 2" X 2" X 24"
(2 REQD). POSITION AS SHOWN
AND NAIL TO THE VERTICAL
PIECES W/2-10d NAILS AT EACH JOINT.

CENTER GATE D

A RIGHT HAND GATE IS SHOWN. THE LOAD AS SHOWN ON PAGE 2
REQUIRES ONE RIGHT HAND AND ONE LEFT HAND GATE. NOTE:
THE LOAD BEARING PIECES MUST BE POSITIONED AGAINST
THE MXU-651/B CONTAINER.

RISER PIECE, 1" X 4" X
48" OR 38" (2 REQD).

TIE PIECE, 1" X 4" X 12" (1 REQD).
NAIL TO THE RISER PIECES W/3-6d NAILS
AT EACH JOINT. CLINCH NAILS.

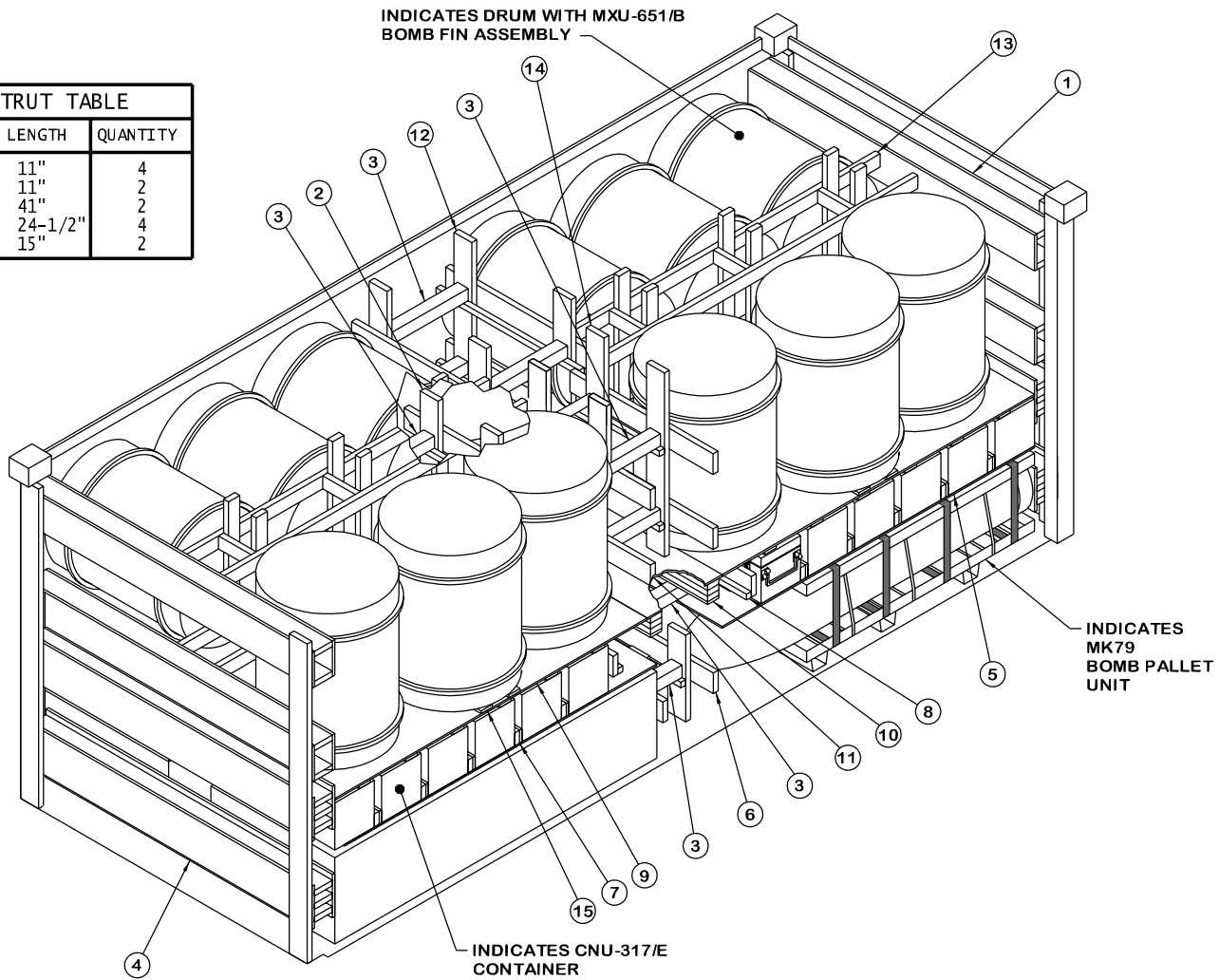


VARIABLE, ADJUST THIS DIMENSION SO
THAT THE DRUM CONTACTS THE CONTAINER
FAR WALL OR DOOR SIDE WHEN CLOSED.

RISER

RISER PIECES FOR THIS ASSEMBLY HAVE BEEN SHOWN AS EITHER 38"
OR 48" IN LENGTH. THE RISERS WITH THE 48" LENGTH WILL BE USED
ON THE SIDE OF THE LOAD CONTAINING THE CNU-317/E CONTAINERS.
THE RISERS USED ON THE OPPOSITE SIDE SHALL BE 38" IN LENGTH.

STRUT TABLE		
GATE	LENGTH	QUANTITY
E	11"	4
B	11"	2
C	41"	2
F	24-1/2"	4
D	15"	2



ISOMETRIC VIEW

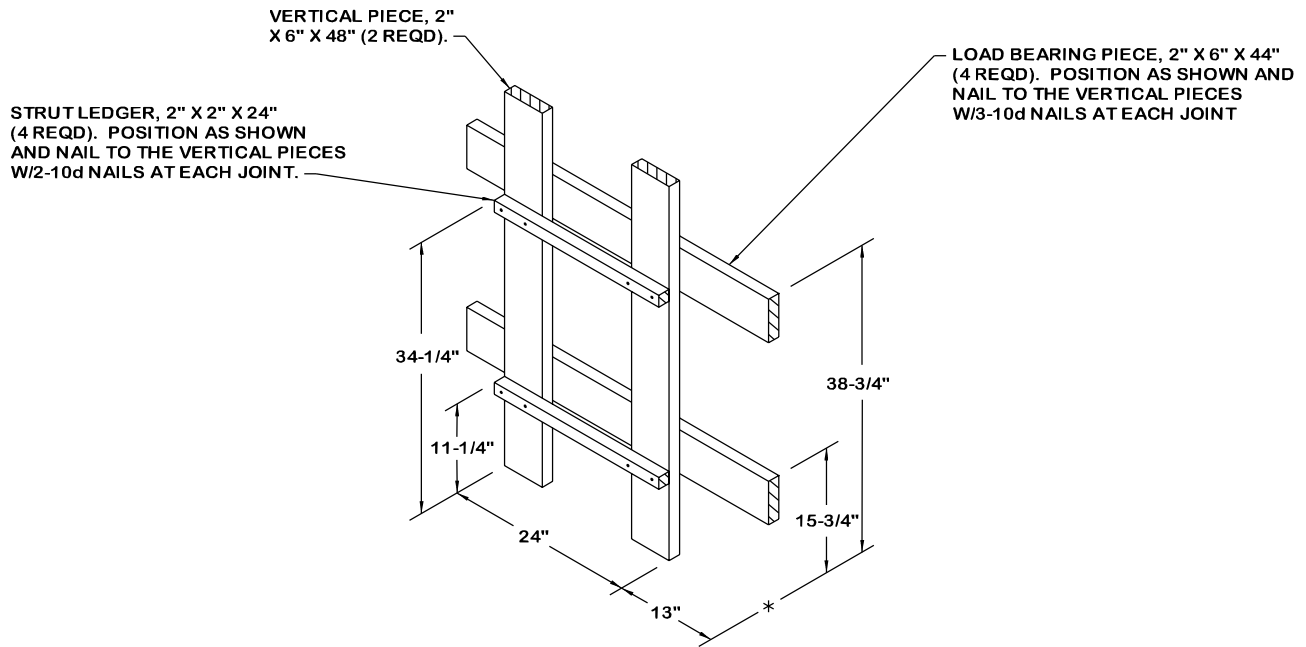
(KEY NUMBERS CONTINUED)

- ⑩ SOLID FILL, 4" WIDE MATERIAL BY 38" (FAR SIDE) OR 48" LENGTH (DOOR SIDE) BY THICKNESS AS REQUIRED TO PROVIDE FOR A DECK HEIGHT EVEN WITH DECKING PIECES MARKED ⑤ AND ⑨. NAIL FIRST PIECE TO THE STRUT, PIECE MARKED ③ W/2 APPROPRIATELY SIZED NAILS AT EACH JOINT. LAMINATE ADDITIONAL PIECES TO FIRST PIECE W/4 APPROPRIATELY SIZED NAILS.
- ⑪ DECKING, PLYWOOD, 1/2" THICK (2 REQD), ONE 38" WIDE (FAR SIDE) AND ONE 48" WIDE (DOOR SIDE) BY LENGTH TO SUIT. NAIL THROUGH DECKING IN TO SOLID FILL PIECE MARKED ⑩ WITH 4 APPROPRIATELY SIZED NAILS AT EACH END.
- ⑫ CENTER GATE F (2 REQD). SEE DETAIL ON PAGE 11. POSITION BETWEEN THE DRUMS AT THE FAR WALL OF THE CONTAINER.
- ⑬ CRIB FILL C (2 REQD). SEE DETAIL ON PAGE 12. POSITION LONGITUDINALLY BETWEEN DRUMS.
- ⑭ CENTER GATE D (2 REQD). SEE DETAIL ON PAGE 9. POSITION BETWEEN THE DRUMS AT THE DOOR SIDE OF THE CONTAINER.
- ⑮ RISER (2 REQD). SEE RISER DETAIL ON PAGE 9. POSITION A RISER UNDER THE MIDDLE DRUM IN EACH GROUP OF THREE DRUMS ON THE DOOR SIDE OF THE CONTAINER.

KEY NUMBERS

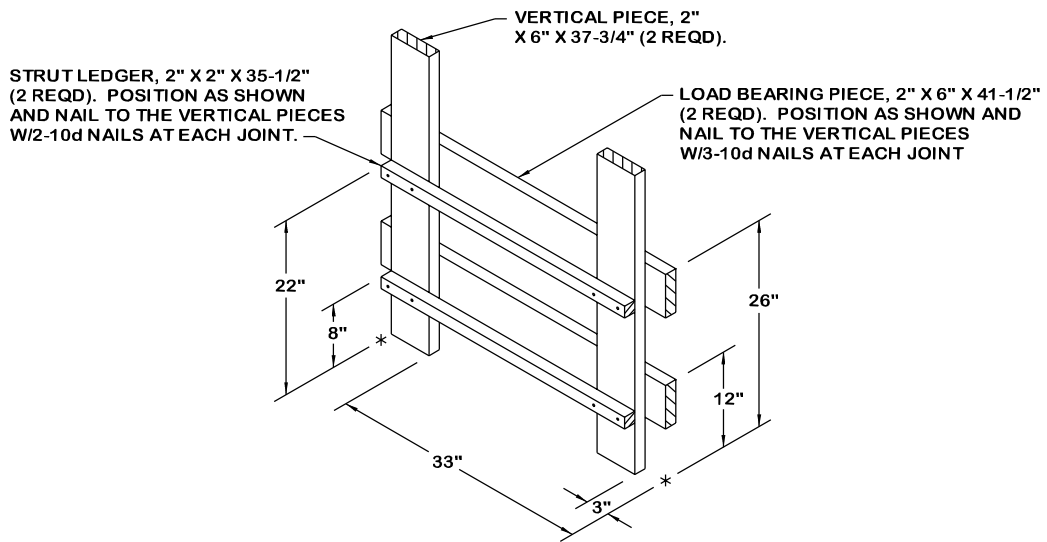
- ① END BLOCKING ASSEMBLY (2 REQD). SEE DETAIL ON PAGE 5.
- ② CENTER GATE E (2 REQD). SEE THE DETAIL ON PAGE 11. POSITION BETWEEN LONGITUDINALLY ADJACENT TWO HIGH STACKS OF BOMBS AT THE FAR WALL.
- ③ STRUT, 4" X 4" BY LENGTH AS REQUIRED. SEE STRUT TABLE ON THIS PAGE. POSITION BETWEEN CENTER GATES AND TOENAIL TO THE CENTER GATES W/2-12d NAILS AT EACH END. SEE THE "BEVEL-CUT DETAIL" ON PAGE 12.
- ④ CRIB FILL A (2 REQD). SEE DETAIL ON PAGE 6. POSITION ON DECK AT EITHER SIDE OF THE CONTAINER BETWEEN THE TWO HIGH AND ONE HIGH STACKS OF BOMB PALLET UNITS.
- ⑤ DECKING ASSEMBLY A (4 REQD). SEE DETAIL ON PAGE 7. POSITION DECKING ASSEMBLY ON TOP OF THE TWO HIGH STACKS OF BOMB PALLET UNITS AT THE FAR WALL AND ON TOP OF THE ONE HIGH BOMB PALLET UNITS AT THE DOOR SIDE.
- ⑥ CENTER GATE B (2 REQD). SEE DETAIL ON PAGE 8. POSITION ON THE FLOOR BETWEEN THE NOSES OF THE BOMB PALLET UNITS ON THE DOOR SIDE.
- ⑦ SEPARATOR PIECE, 1" AND 2" X 4" X 48" (10 EACH REQD). LAMINATE THE 1" PIECE TO THE 2" PIECE W/5-6d NAILS. INSTALL BETWEEN THE CNU-317/E CONTAINERS.
- ⑧ CENTER GATE C (2 REQD). SEE DETAIL ON PAGE 9. POSITION ON TOP OF DECKING ASSEMBLIES "A", AT EITHER END OF THE CNU-317/E CONTAINER STACKS.
- ⑨ DECKING ASSEMBLY B (2 REQD). SEE DETAIL ON PAGE 7. POSITION ON TOP OF CNU-317/E CONTAINERS.

(CONTINUED AT LEFT)

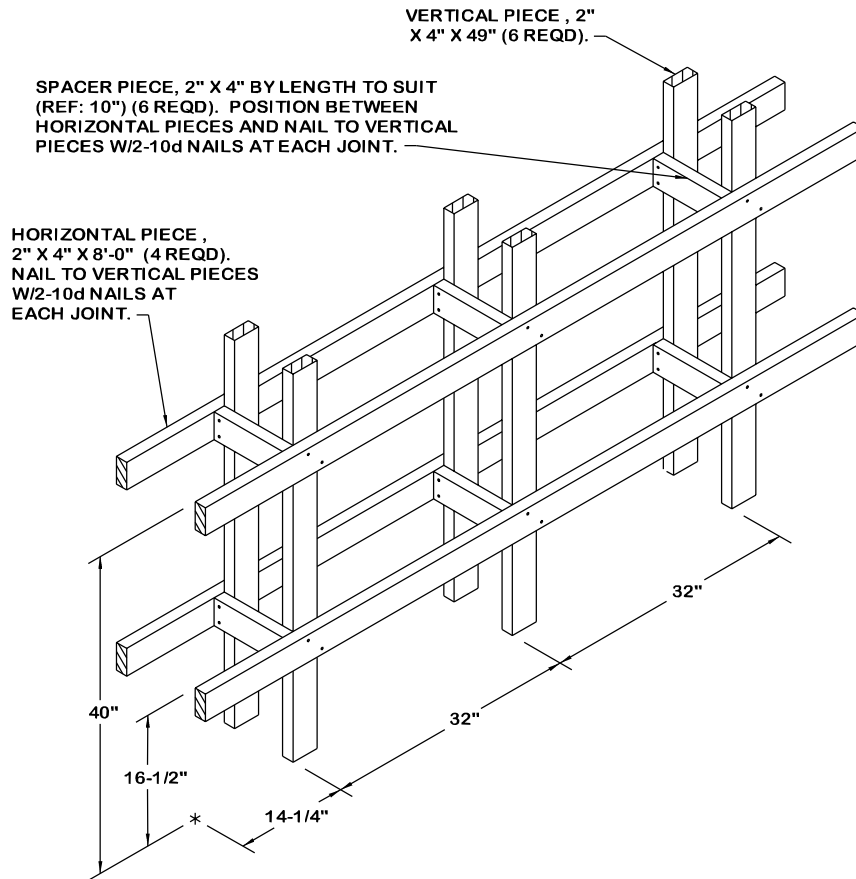


CENTER GATE E

A RIGHT HAND GATE IS SHOWN. THE LOAD AS SHOWN ON PAGE 10 REQUIRES ONE RIGHT HAND AND ONE LEFT HAND GATE. **NOTE:** THE VERTICAL PIECES MUST BE IN ALIGNMENT WITH THE NOSE END OF THE BOMBS.

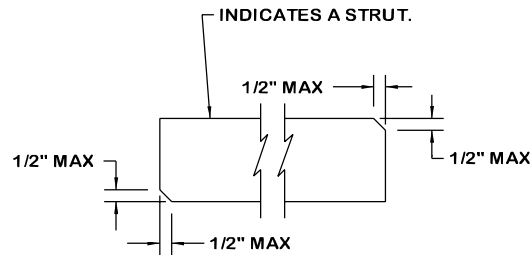


CENTER GATE F



CRIB FILL C

POSITION CRIB FILL C ON TOP OF DECKING ASSEMBLY BETWEEN MXU-651/B CONTAINERS AT THE FRONT AND REAR OF THE LOAD.



BEVEL-CUT

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