

# LOADING AND BRACING (CL & LCL) IN BOX CARS OF M6 WARHEAD PACKED IN WOODEN CRATE

#### INDEX

<u>ITEM</u>	PAGE
GENERAL NOTES, MATERIAL SPECIFICATIONS	
AND DETAILS	2
CL 40'-6" CAR	3
CL 50'-6" CAR	4
LCL 40'-6" CAR	5
LCL 50'-6" CAR	-6 & 7

LOADING AND BRACING (CL & LCL) IN BOX CARS
OF M6 WARHEAD PACKED IN WOODEN CRATE

J. D. S. GWP	CHARLES	DIW/ BUB	Pal	16 9.1	Mulvan T	CORPS U.S.A.
	REVI	SIONS	James D Burke			
			J			L COMPS U.A.L
			OR	DNANCE	CORPS	U.S.A.
				20 MA	Y 1960	
			CLASS	DIVISION	DRAWING	FILE
			19	48	7002	SP5CI

#### GENERAL NOTES

- A. THE MB WARNEAD IS PACKED IN CRATES HAVING APPROXIMATE DIMENSIONS
  OF EITHER 144" X 45" X 49% HIGH OR 140% X 44% SOM HIGH. THIS-DRAWIMB COVERS OUTLOADING OF THE LONGER CONTAINER. IT CAN ALSO BE
  USED FOR THE SHORTER CONTAINER BY ADJUSTING THE DUNNAGE AS REQUIRED.
- GROSS BEIGHTS OF CONTAINERS VARY, APPROXIMATE AVERAGE GROSS BEIGHT IS 3,000 LBS.
- C. DOORWAY PROTECTION IS REQUIRED FOR THIS ITEM WHEN MORE THAN 1/2
  THE LENGTH OF A CONTAINER EXTENDS INTO DOORWAY AREA. NO DOORWAY
  PROTECTION IS REQUIRED WHEN THE SIDE OF CAR AND THE CENTER POST
  OF DOUBLE DOORS HOLD BOTH ENDS OF CRATE FROM SIDEWARD MOVEMENT.
- D. THEN PLANNING SHIPMENTS, THE MINIMUM NUMBER OF CARS OF 16 AND/OR 12-UNIT CAPACITIES REQUIRED TO UTILIZE THE MAXIMUM SPACE CAPACITY OF ALL CARS SHOULD BE ORDERED. CARS WITH DOUBLE DOOR OPENINGS ARE PREFERRED.
- E. LOACS SHORN ARE BASED ON CARS 40'-6" X 9'-2" AND 50'-8" X 9'-2", INSIDE CINENSIONS. PRINCIPLES SHOWN HEREIN WILL BE APPLIED TO CARS OF OTHER DIVENSIONS.
- F. SUGGESTED WINIMUM DIMENSIONS OF BOX CARS USED FOR SHIPPING NO DARNEADS:

INSIDE LENGTH	INSIDE BIDTH	DOORWAY OPENINGS
40'-6' FOR 6 PER LAYER	9'-2" "	9'-0" # X 9'-6" H .
50'-6" FOR 8 PER LAYER	95	9'-0" # X 9'-4" H .

 LARGER INSIDE WIDTH AND DOORWAY OPENINGS ARE DESIRABLE.

#### MATERIAL SPECIFICATIONS

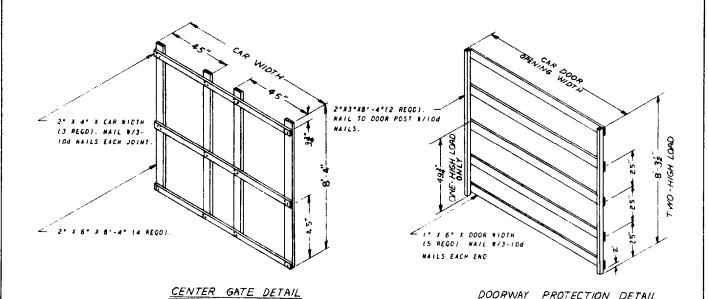
LUMBER: SEE PAR 5,400, ORDH 3-4, VOLUME 2.

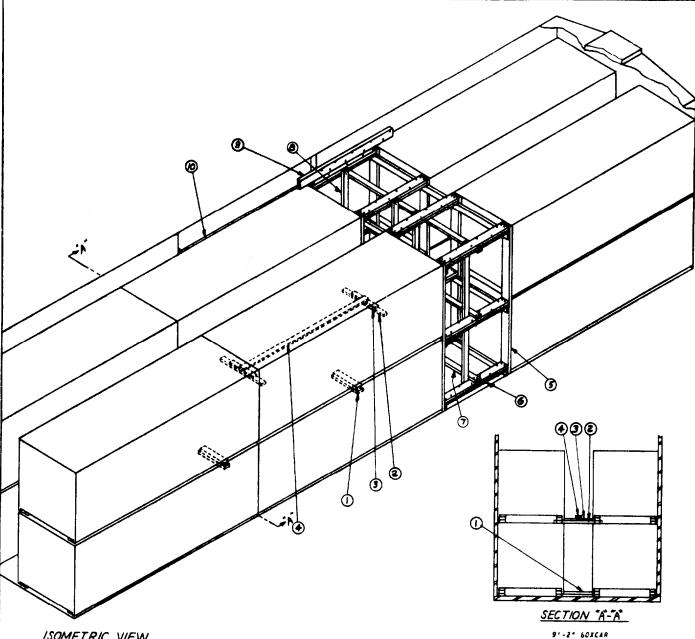
NAILS: COMMON, CEMENT COATED, FED SPEC FF-N-105. ALTERNATE: ANNULAR-RING TYPE NAIL OF SAME SIZE.

DOORWAY PROTECTION DETAIL

TO BE NAILED IN PLACE WHEN DOOR POSTS ARE WOOD, OR ARE PROVIDED WITH NAILING CAPABILITY, WHEN VERTICAL FRAMING MEMBERS CANNOT BE NAILED TO DOOR POSTS, THEY SHOULD BE WEDGED IN PLACE, OR FIXED IN POSITION BY STEEL STRAP

PINC NAILED TO INNER CAR WALL.





### ISOMETRIC VIEW

40'-6" X 9'-2" BOX CAR, WITH DOORWAY OPENINGS 9"-0"WIDE

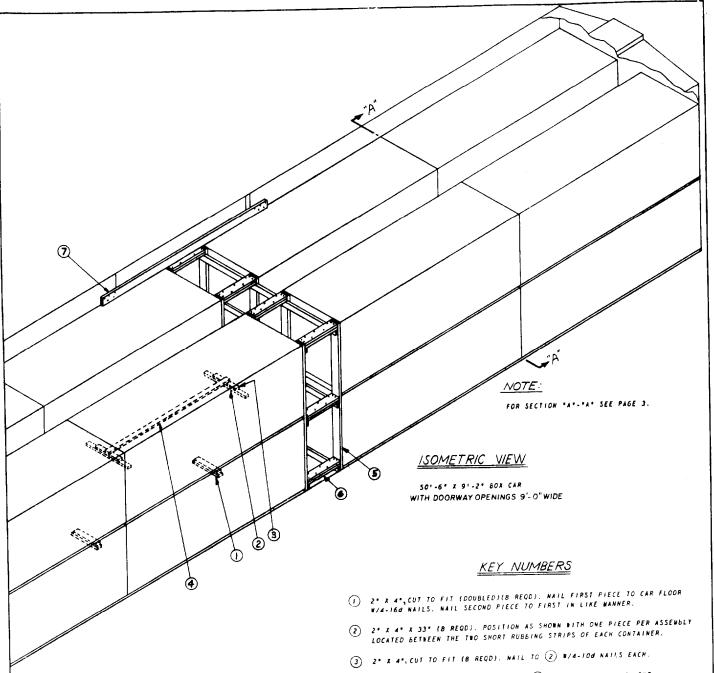
BILL OF MATERIAL			
LUMBER	LINEAL FEET	BOARD FEET	
1 * X 6 *	90	45	
5. x 3.	34	17	
2" X 4"	189	126	
5. x e.	181	181	
MAILS	NO. REQD	POUNDS	
100	3/8	5	
120	66	74	
16e	48	i	

	OAD AS SHOWN	
	QUANTITY	DE 16HT
CONTAINERS	12	36,000 165
DUNNAGE		936 L85
1014	L BEIGHT	16 910 185

() 2° X 4°, CUT TO FIT (COUBLEC) (6 RECD). NAIL FIRST PIECE TO CAR FLOOR 8/4-16d NAILS. MAIL SECOND PIECE TO FIRST IN LIKE BANNER.

KEY NUMBERS

- 2° X 4° X 33° (6 FECC). FOSITION AS SHOWN WITH ONE PIECE PER ASSEMBLY LOCATED BETWEEN THE THE SHORT RUBBING STRIPS OF EACH CONTAINER.
- 3 2" X 4", CUT TO FIT 16 REQUI. NAIL TO 2 B/4-100 MAILS EACH.
- ② 2\* x 4\* x 6'-5\* (3 REGG), NAIL TC ③ 8/3-108 WAILS EACH ENG.
- S CENTER CATE 12 REQUI. SEE CETAIL, PAGE 2.
- (6) STRUTS, 2° x 6°, CUT TO FIT (COUBLED)(12 RECO). LABINATE B/6-ICS MAILS EACH. TOEMAIL TO CENTER GATE UPRIGHTS B/2-128 MAILS EACH END:
- 7) 2" X 4" X CAR WIDTH 13 REQDI. NAIL TO 6 B/3-100 NAILS EACH JOINT.
- @ 2" X 4" X 8"-4" [4 REQD]. WAIL TO @ 8/3-104 WAILS EACH JOINT.
- GATE HOLD DOWN, 2" X 6" X 72" (2 REOD). WAIL TO CAR PALL B/1-128 MAIL EVERY 6".
- TO COORWAY PROTECTION (2 REGD). SEE DETAIL, PAGE 2.

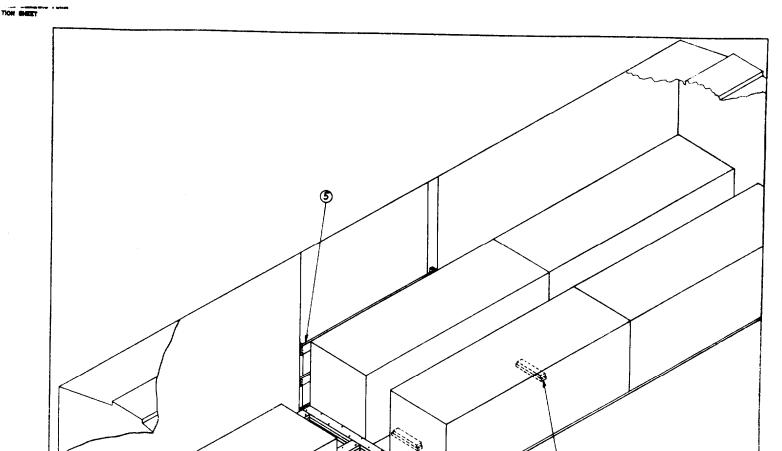


BIL	L OF MATERIAL	
LUMBER	LINEAL FEET	BOARD FEET
2" X 4"	152	102
24 X 67	143	143
HAILS	NO.REQD	PCUNDS
104	188	3
12d	68	1-1/
164	64	1-17

L OAD	AS	SHOWN

ITEW	QUANTITY	WEIGHT
CONTAINERS	16	48,000 LES
DUNNAGE		619 L85
1074	L DEIGHT	48,619 LES

- (4) 2" X 4" X 8"-5" (4 REQD). NAIL TO 3 W/3-10d NAILS EACH END.
- (S) CENTER GATE (2 REQD). SEE DETAIL, PAGE 2.
- (6) STRUTS, 2° × 6°, CUT TO FIT (DOUBLED)(12 REQD). LAWINATE B/5-10d NAILS EACH. TOENAIL TO CENTER GATE UPRIGHTS B/2-12d NAILS EACH END.
- (7) GATE HOLD DOWN. 2° X 6° X 11'-0° (2 REGD). HAIL TO CAR WALL W/5-12d NAILS EACH ENG.



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# ISOMETRIC VIEW (LCL)

40'-6" X 9'-2" BOX CAR WITH DOORWAY OPENINGS 9'-0" WIDE

BILL OF MATERIAL		
LUMBER	LINEAL FEET	BOARD FEET
1. x 6. 2. x 3. 2. x 4. 2. x 6.	54 17 28 83	27 9 18 83
NAILS	NO. REOD	POUNCS
10d 16d 40d	36 106 84	2-1/4

# LOAD AS SHOWN

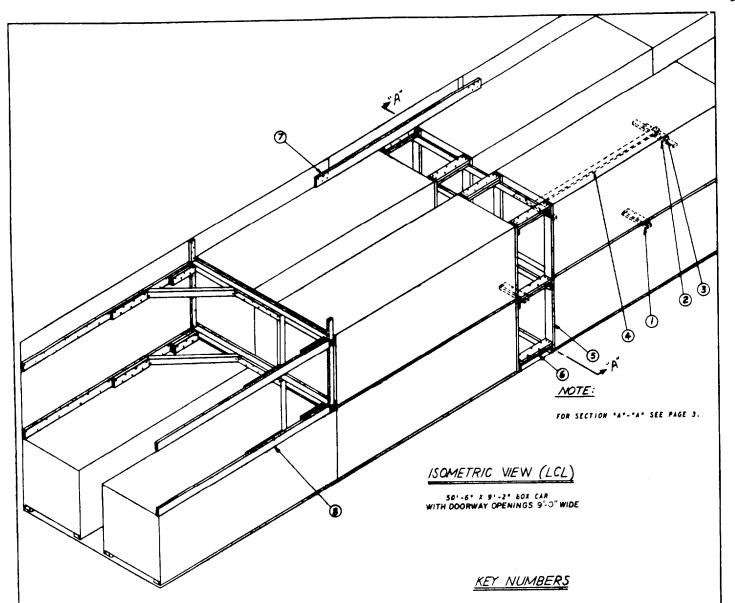
ITEN	QUANTITY	BEIGHT
CONTAINERS	5	15,000 LES
DUNNAGE		351 L65
TOTAL	<b>BEIGHT</b>	15,351 L6S

# KEY NUMBERS

() 2° X 4°, CUT TO FIT (WIN 18°) DOUBLED (B REQD). HAIL FIRST PIECE TO CAR FLOOR #74-16d HAILS. MAIL SECOND PIECE TO FIRST IN LIKE WANNER.

◑

- 2 2" X 6" X 48" (TRIPLED)(I REQC). NAIL FIRST PIECE TO CAR FLOOR W/I-16d NAIL EVERY 6". NAIL EACH REMAINING PIECE W/I-40d NAIL EVERY 6".
- 3 2° X 6° X CAR BIDTH (TRIPLED)(I REQD). WAIL FIRST PIECE TO CAR FLOOR B/I-16d MAIL EVERY 8°. MAIL EACH REMAINING PIECE 8/I-40d MAIL EVERY 8°.
- (4) 2° X 6°, CUT TO FIT (42° WIN) TRIPLED (4 REQD). MAIL FIRST PIECE TO CAR FLOOR B/1-16d NAIL EVERY 8°. MAIL EACH REMAINING PIECE B/1-4Cd NA...
- (5) COCREAY PROTECTION (2 REQU). SEE DETAIL, PAGE 2.



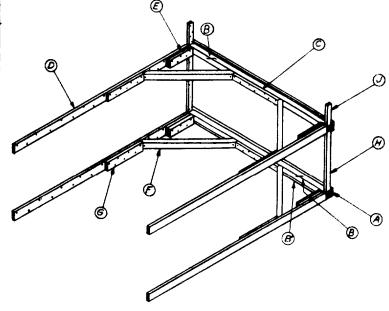
BILL OF MA	TERIAL	
LUBBER	LINEAL FEET	BOARD FEET
2" x 4"	160	107
2. x 6.	229	229
4" X 4"	36	48
NAILS	NO.REQD	PCUNDS
104	216	3-1/3
124	242	3
160	64	1-1/2
604	8	1

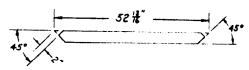
### LOAD AS SHOWN

ITEN	QUANTITY	WEIGHT
CONTAINERS	14	42,000 LBS
DUNNAGE		9 <b>69</b> L&S
TOTAL	1E I GHT	42,9 <b>69</b> LES

- 1) 2° X 4° CUT TO FIT (DOUBLED)(B REOD). MAIL FIRST PIECE TO CAR FLOOR B/4-16d MAILS. MAIL SECOND PIECE TO FIRST. IN LIKE MANNER.
- (2) 2° X 4° X 33° (6 REQD). POSITION AS SNOWN WITH ONE PIECE PER ASSEMBLY LOCATED BETBEEN THE TWO SHORT RUBBING STRIPS OF EACH CONTAINER.
- 3 2° 1 4° , CUT TO FIT (6 REGD). WAIL TO 2 1/4-104 MAILS EACH.
- (4) 2" x 4" x 8"-5" (3 REQD). HAIL TO (3) 1/3-100 MAILS EACH END.
- (5) CENTER GATE 12 REQDJ. SEE DETAIL, PAGE 2.
- STRUTS, 2" K 6", CUT TO FIT (DOUBLED)(12 REQD). LAWINATE W/5-10d NAILS EACH. TOENAIL TO CENTER GATE UPRIGHTS W/2-12d NAILS EACH END.
- (2) GATE HOLD COMM, 2" X 6" X 11'-0" (2 REQD). NAIL TO CAR WALL W/5-12d NAILS EACH END.
- (8) "N" BRACING (I REQD). SEE DETAIL, PAGE 7.

	LUMBER AND N	<u> AILING</u>	<u>INFORMAT</u>	ION
PC	LUMBER	VO REQD	NAIL TO	NAILS
A	2" X S" X CAR WIDTH	2	B	I IO MAIL
B	4" X 4" X CAR WIDTH	2		EVERY 9
8,	2" X 4" X CAR WIDTH	'	BOTTOM OF LOWER B	I IODNAIL EVERY 6"
С	2" x 4" x 36"	2	9	7 IZ d NAILS
٥	2" X 6", EXTEND TO END OF CAR	4	CAR WALL	I IZ dNAIL EVERY R"
E	2" X 6" X 18"	8	DAE	5 12 d NAIL
F	4" X 4" MATERIAL SEE DETAIL	4	8 <b>8</b> D	I GODNAIL
G	2"x 6"x 30"	4	D	7 12 d MAIL
н	2" X 4" X 39"	2	CAR WALL	I IZ d NAIL EVERY 8"
J	2" X 4" X 14" MIN	2	CAR WALL	4 12 d NAIL





DETAIL OF PIECE (F)

"K" BRACING DETAIL