

MILITARY STANDARD

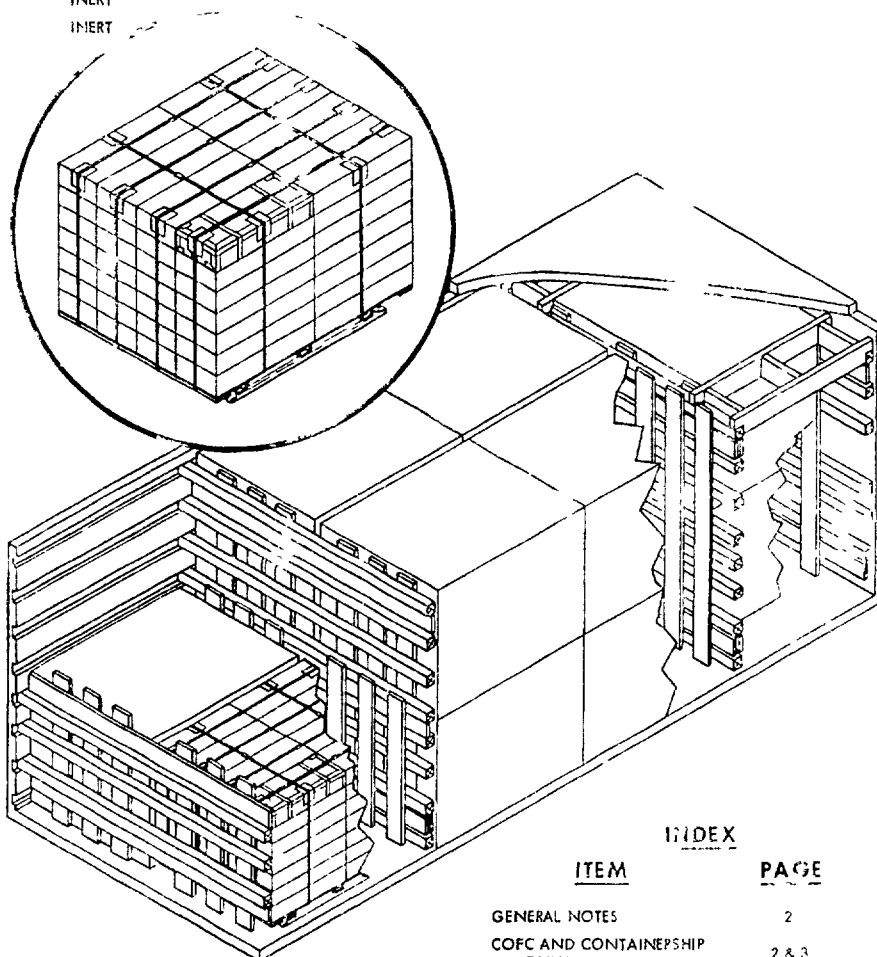
LOADING OF HAZARDOUS MATERIALS AND ASSOCIATED ITEMS IN MILVAN CONTAINERS

BOMB, PRACTICE MK 76 MOD 445 FLEET ISSUE UNIT LOAD

NAVY
(NAVY)

UNIT LOAD DATA

UNIT LOAD DRAWING	WR-54/217
WEIGHT	3022 LBS
DIMENSIONS	57 7/8" x 44 1/2" W x 42 5/8" H
CUBE	61.2 CU FT
DOT HAZARD CLASSIFICATION	INERT
COAST GUARD CLASS	INERT



NOTES

1. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
2. FOR CROSS REFERENCE TO ASSOCIATED PALLETIZING, TRUCKLOADING AND CARLOADING MILITARY STANDARDS, REFER TO THE INDEX TO STANDARDS, MIL-HDBK-226 (NAVY)

INDEX

ITEM	PAGE
GENERAL NOTES	2
COFC AND CONTAINERSHIP ONLY	2 & 3
DETAILS	
COFC/TOFC, CONTAINERSHIP AND HIGHWAY	5

**AUTHORIZED FOR TRAILER-ON-
FLAT-CAR (TOFC), CONTAINER-ON-
FLAT-CAR (COFC), CONTAINERSHIP
AND HIGHWAY SHIPMENTS**

SIGNATURE: *[Signature]* DATE: 9/19/73
RELATION: AGC (1, DA) DATE: 9/19/73
AIR/SEA/DIR: AIR/SEA/DIR

ORIGINATOR

NAVY HAZARDOUS HANDLING LABO
HEADQUARTERS, NAVY

MILVAN 13-22 (NAVY)

GENERAL NOTES

1. THIS DOCUMENT GIVES DETAILED INSTRUCTIONS FOR LOADING THE MILVAN CONTAINER WITH FLEET ISSUE UNIT LOADS OF MIL 76 MODS 1 AND 5. ALL CROSSMEMBERS SHALL BE PALLETIZED IN ACCORDANCE WITH WR-54/217. THE MILVAN SHALL BE EQUIPPED WITH A MECHANICAL LOAD-BRACING SYSTEM THAT MEETS THE REQUIREMENTS OF THE BUREAU OF XPLODUS PAMPHLET 6 C.
2. IN ADDITION TO THE BELT RAILS REQUIRED BY PAMPHLET 6 C, THE MILVAN CONTAINER HAS BELT RAILS AT THE 72 AND 83 INCH HEIGHTS FROM THE CONTAINER FLOOR.

CAUTION

WHEN POSITIONING CROSSMEMBERS, MAKE A VISUAL CHECK TO ENSURE THAT THE CROSSMEMBERS ARE LOCKED SECURELY IN PLACE.

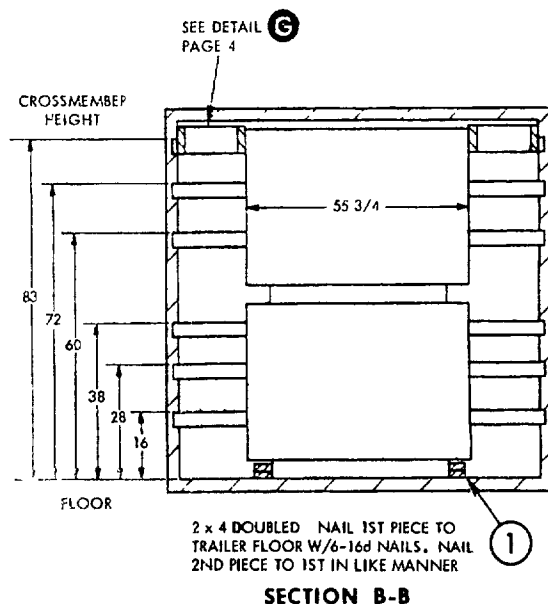
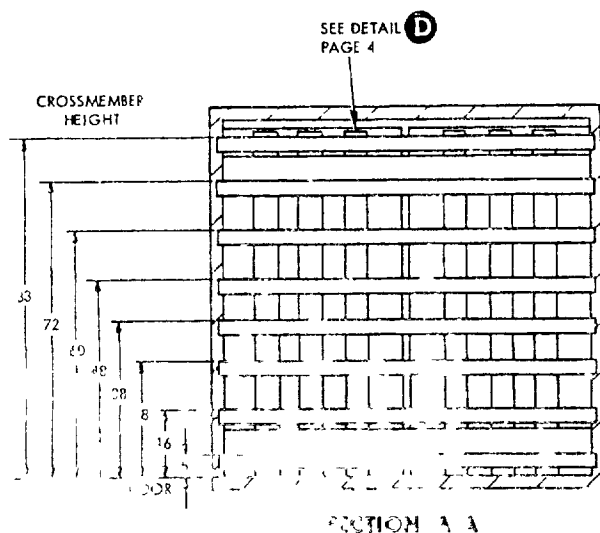
3. CONTAINERS ARE EQUIPPED WITH 25 CROSSMEMBERS. UNUSED CROSSMEMBERS MUST REMAIN WITH THE CONTAINER AND SHALL BE FASTENED INTO BELT RAILS FOR SHIPMENT.
4. WHEN THE VOID BETWEEN THE CROSSMEMBER AND THE SEPARATOR GATE IS GREATER THAN ONE INCH, USE FILL MATERIAL TO SHIM BETWEEN CROSSMEMBER AND GATE AS SHOWN IN DETAIL F, PAGE 4.
5. LENGTH OF STRUT, PIECE 2, SHALL BE SUFFICIENT TO CAUSE SWAY BRACE DETAIL G TO FILL THE VOID BETWEEN THE UNIT LOAD AND THE CONTAINER SIDE WALL. TWIST TIE SWAY BRACE TO CROSSMEMBER WITH 16 GAUGE SOFT ANNEALED IRON WIRE, TWO PLACES.
6. APPLICABLE MATERIAL SPECIFICATIONS:
 - DUNNAGE LUMBER - FED. SPEC. MM-L-751
 - NAILS - FED. SPEC. FF-N-105, TYPE II, STYLE 10, COMMON BRIGHT
 - STRAP - FED. SPEC. QQ-S-781, TYPE I, CLASS A
7. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED, ATTACH SHIPPING DOCUMENTS INSIDE THE CONTAINER IN AN ACCESSIBLE AREA AND CLOSE AND SEAL CONTAINER DOORS.

COFC AND CONTAINERSHIP ONLY

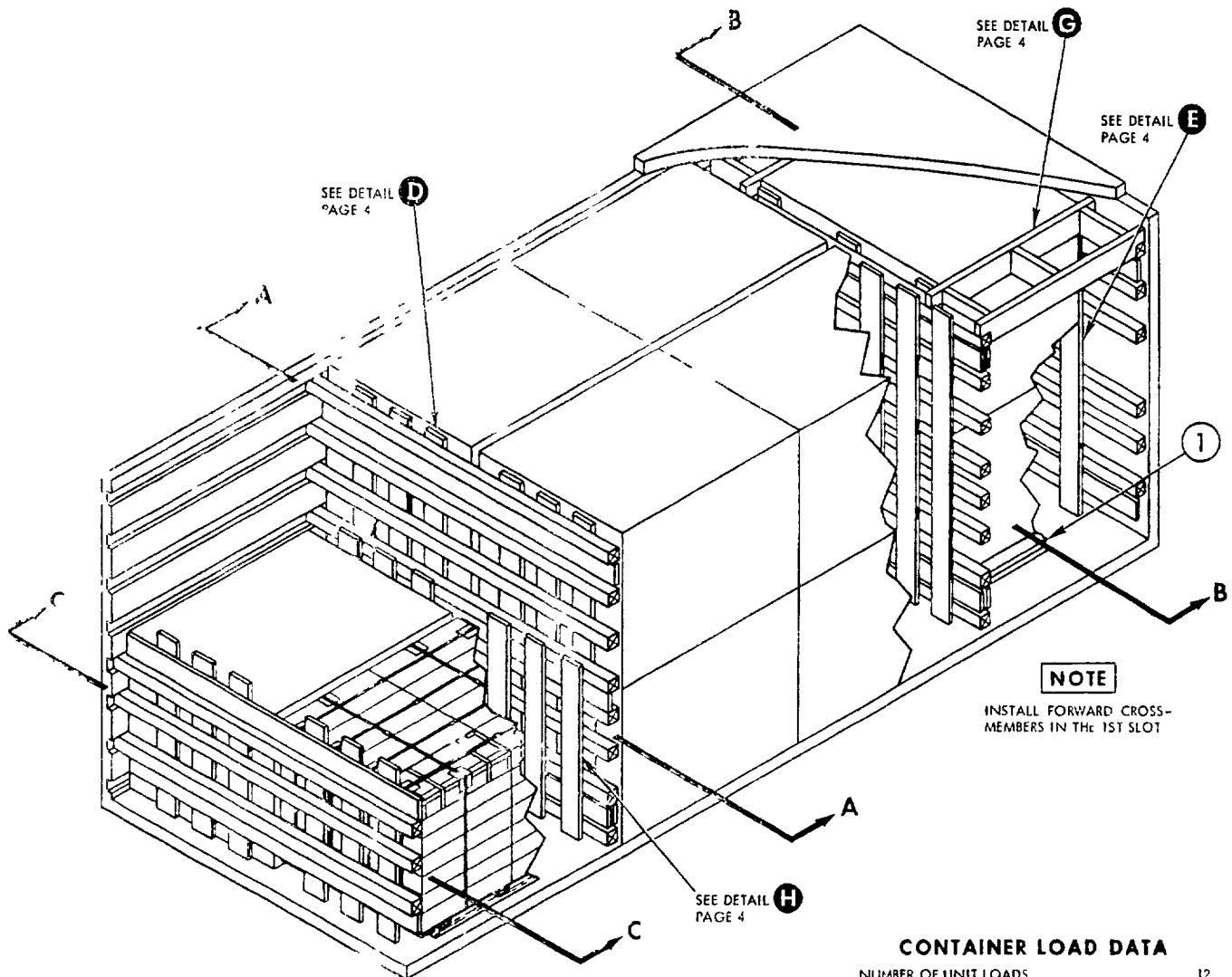
1. THE CONTAINER LOAD CONSISTS OF 12 UNIT LOADS WHICH MUST BE LOADED AND DUNNAGED IN ACCORDANCE WITH THIS DOCUMENT.

WARNING

BECAUSE THE WEIGHT LOADED INTO THIS CONTAINER EXCEEDS 14,000 LBS, THE MILVAN CHASSIS CANNOT BE USED TO TRANSPORT THE LOADED CONTAINER ON PUBLIC HIGHWAYS. THE LOADED CONTAINER MAY BE TRANSPORTED OVER DEPOT ROADS USING MILVAN CHASSIS EQUIPPED WITH DOUBLE BOGIES OF COMMERCIAL EQUIPMENT OF APPROPRIATE CAPACITY.

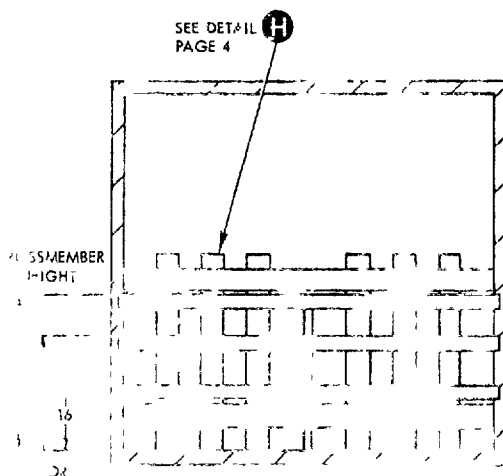


MIL-STD-1386-22 (NAVY)



CONTAINER LOAD DATA

NUMBER OF UNIT LOADS	12
NUMBER OF CROSSMEMBERS REQ D	25
LOAD WEIGHT	36,274 LB
DUNNAGE WEIGHT	423 LB
CONTAINER WEIGHT	5,785 LB
GROSS WEIGHT	42,482 LB

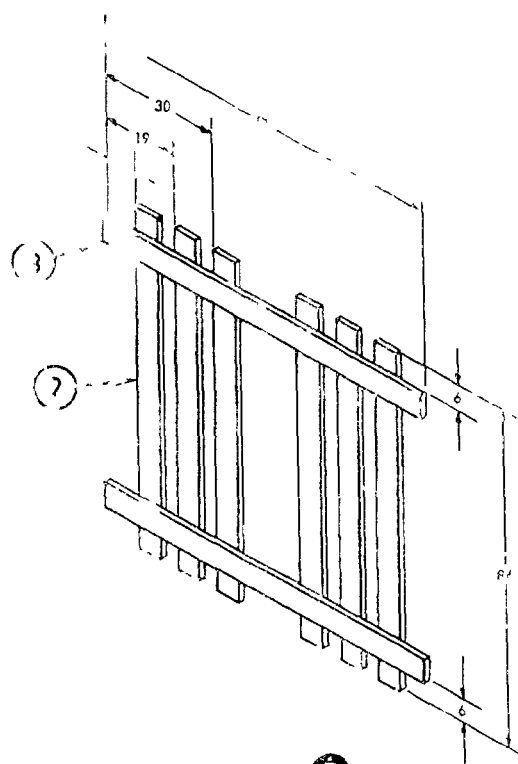


SECTION C-C

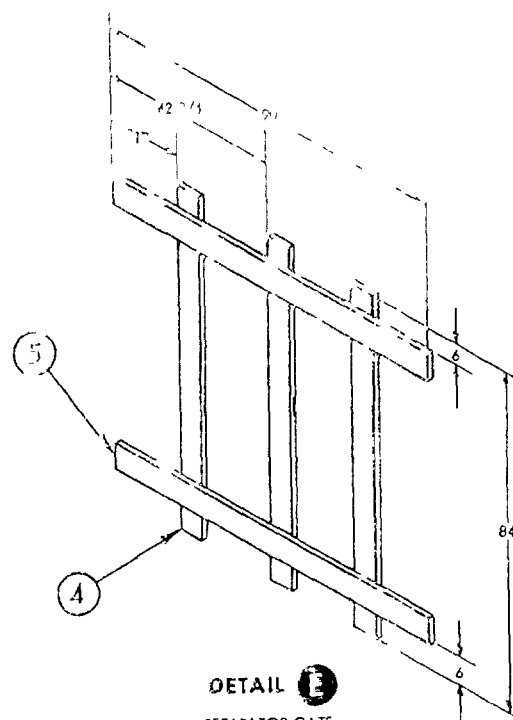
9	HORIZONTAL	1 x 6 x 90	4	SEE 8	-	-
8	VERTICAL	1 x 6 x 48	12	0	3 PER JOINT CLINCHED	6d
7	STRUT	2 x 6 TO SUIT	6	SEE 6	-	-
6	LONGITUDINAL	2 x 6 x 53	4	7	4 PER JOINT	12d
5	HORIZONTAL	1 x 6 x 90	4	SEE 4	-	-
4	VERTICAL	1 x 6 x 84	6	5	3 PER JOINT CLINCHED	6d
3	HORIZONTAL	1 x 6 x 90	4	SEE 2	-	-
2	VERTICAL	1 x 6 x 84	12	3	3 PER JOINT CLINCHED	6d
1	SLEEPER	2 x 4 x 48	4	SEE SECTION B-B		
PIECE NO	DESCRIPTION	SIZE	NO PCS REQD	NAIL TO	NUMBER NAILS	SIZE

LIST OF MATERIALS AND NAILING DATA

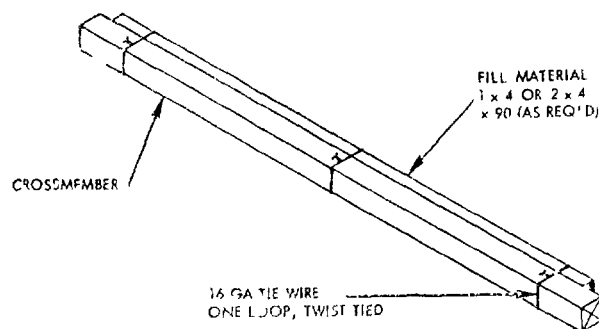
MILITARY 133-22 (GLASS)



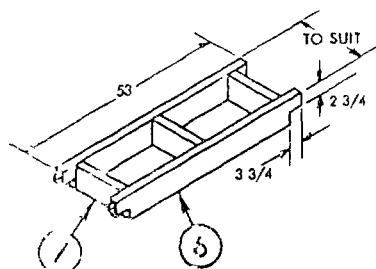
DETAIL D
SEPARATOR GATE
2 REQUIRED



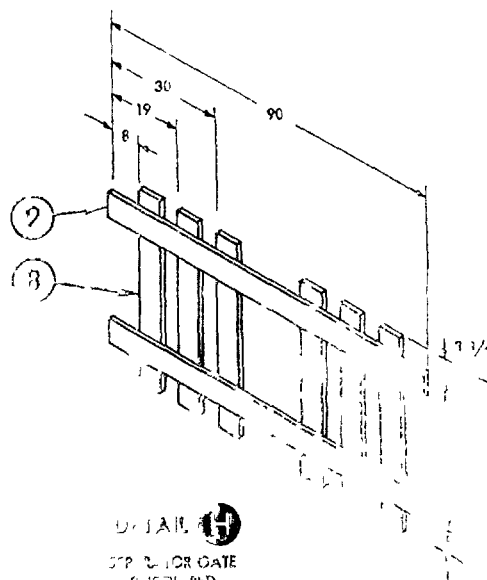
DETAIL E
SEPARATOR GATE
2 REQUIRED



DETAIL F
FILL MATERIAL
SEE GENERAL NOTE 5



DETAIL G
FILL MATERIAL
SEE GENERAL NOTE 5



DETAIL H
SEPARATOR GATE
2 REQUIRED

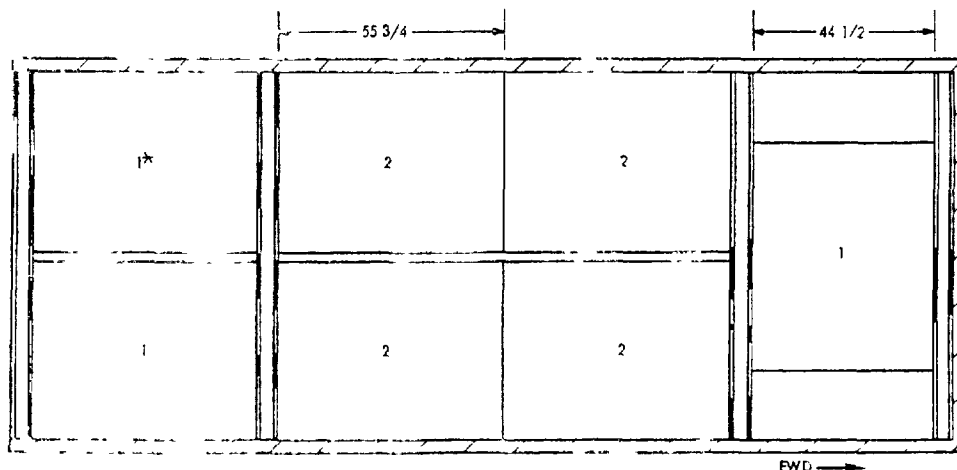
MIL-STD-1386-22 (NAVY)

TOFC, COFC, CONTAINERSHIP AND HIGHWAY

1. NUMBER OF UNIT LOADS TO THE MILVAN CONTAINER WHEN THE LOADED CONTAINER IS TO BE MOVED VIA TOFC OR COFC OR HIGHWAY. THIS QUANTITY MAY ALSO BE MOVED COFC AND CONTAINERSHIP.
2. LOAD THE CONTAINER USING THE LOAD DIAGRAM SHOWN BELOW. BLOCK AND BRACE USING THE PRINCIPLES SHOWN ON PAGE 3. ADJUST HEIGHT OF SEPARATOR GATES IN FIRST BAY TO 48 INCHES.

NOTE

- IN CERTAIN STATES THE GROSS VEHICLE WEIGHT (GVW), (CONTAINER, CHASSIS AND TRACTOR), IS LIMITED BY THE DISTANCE BETWEEN THE FIRST AND LAST AXLES OF THE ASSEMBLED RIG. CARE SHOULD BE TAKEN TO SEE THAT THE PROPOSED GVW DOES NOT EXCEED THESE LIMITS. IF IT DOES, THE WEIGHT MAY BE DECREASED BY REDUCING THE NUMBER OF UNIT LOADS IN THE CONTAINER AS FOLLOWS:
4. OMITTING ONE OR BOTH OF THE UNIT LOADS IN THE REAR BAY.
 3. OMITTING THE UNIT LOADS IN THE REAR AND FRONT BAYS.
3. BECAUSE ELEVEN UNIT LOADS DOES NOT EXCEED 34,000 LBS, A MILVAN CHASSIS WITH DOUBLE BOGIES CAN BE USED TO TRANSPORT A CONTAINER VIA TOFC OR HIGHWAY. COMMERCIAL EQUIPMENT OF APPROPRIATE CAPACITY MAY ALSO BE USED FOR HIGHWAY MOVEMENT.

**LOADING PLAN**(PLAN VIEW)
11 UNIT LOADS* INDICATES NUMBER OF UNIT LOADS
IN A LAYER**CONTAINER LOAD DATA**

NUMBER OF UNIT LOADS	11
NUMBER OF CROSSMEMBERS REQ'D	22
LOAD WEIGHT	33,242 LB
DUNNAGE WEIGHT	419 LB
CONTAINER WEIGHT	785 LB
GROSS WEIGHT	34,446 LB