REV NO. I APPROVED BY
BUREAU OF EXPLOSIVES

A. G. Marasomusk

BUPENNEON, NILITARY & WITER HICHAL BERVICES

BURE 3/11/3/

HAWK

LOADING AND BRACING IN VAN TYPE TRAILER FOR CONTAINER/TRAILER-ON-FLAT-CAR (C/TOFC) SHIPMENT OF COMPLETE ROUND IN M430 OR M6II CONTAINER

THIS DRAWING, INCLUDING REVISION 1, SUPERSEDES DRAWING 19-48-5670-GM15A38 T. O. F. C., DATED 20 JULY 1962.

[REVIS	SIONS	GRG	Amw	o /www *	SPIT-SP
-	FEB 75	***	Worken & Gibbelon	Wesley E. Gilleland			
		/	, in order	U. S. ARMY	WHITE EL	COMMANDING GET	
		Κ,		U.S. ARMY MATERIEL COMMAND			
1		/			FEBRU	ARY 19	75
	1			CLASS	DIVISION	DRAWING	FILE
-				19	48	5670	GM I5HA4

DO NOT SCALE

GENERAL NOTES

- THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- THE OUTLOADING PROCEDURES SPECIFIED HEREIN ARE APPLICABLE TO THE HAWK COMPLETE ROUND, WHEN PACKED IN THE M430 OR M611 CONTAINER, SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE CONTAINER WITH MISSILE COMPONENTS .
- C. FOR DETAIL OF THE MA30 CONTAINER, SEE DRAWING NO. 9073970,
 CONTAINER DIMENSIONS --- 216" LONG X 28-3/4" WIDE X 41-1/2" HIGH. GROSS WEIGHT --------- 3,225 POUNDS (APPROX).
 - FOR DETAIL OF THE M611 CONTAINER, SEE DRAWING NO. 8035841.

 CONTAINER DIMENSIONS --- 216" LONG X 30" WIDE X 41-1/2" HIGH.

 GROSS WEIGHT ------- 3,351 POUNDS (APPROX).
- D. THIS PROCEDURAL DRAWING IS APPLICABLE TO VAN TYPE TRAILERS AND/OR CONTAINERS WHICH ARE EQUIPPED WITH SPECIAL BULKHEAD SYSTEMS AS SPECIFIED WITHIN THE BUREAU OF EXPLOSIVES, AAR, PAMPHLET NO. 6C AND APPENDICES THERETO, SUBSEQUENT REFERENCE TO A TRAILER THROUGHOUT THIS DOCUMENT MEANS A TRAILER OR CONTAINER FOR TOPC AND/OR COPC SHIPMENTS. ONLY RAILCARS WHICH ARE SPECIFIED BY THE BUREAU OF EXPLOSIVES PAMPHLET NO. 6C OR THE AFOREMENTIONED APPENDICES, WILL BE USED.
- ALL THE LOADS SHOWN ARE BASED ON TRAILERS WHICH ARE 40'-0" LONG BY ALL THE LOADS SHOWN ARE BASED ON TRAILERS WHICH ARE 40"-0" LONG BY 7"-7" WIDE MINIMUM (INSIDE DIMENSION) WITH WOOD, WOOD AND METAL, OR METAL FLOORS. TRAILERS WIDER THAN 7"-7" (INSIDE DIMENSION) SHOULD BE USED, WHENEVER POSSIBLE, TO FACILITATE LOADING AND UNLOADING OPERATIONS. SEE GENERAL NOTE "T" AT RIGHT.
- THIS ITEM IS A DOT CLASS "A" EXPLOSIVE. THE OUTLOADING PROCEDURES SPECIFIED HEREIN CAN ALSO BE UTILIZED FOR THE SHIPMENT OF THE DEPICTED CONTAINERS WHEN THEY ARE EMPTY OR LOADED WITH AN ITEM WHICH IS IDENTIFIED DIFFERENTLY BY NOMENCLATURE THAN THE ITEM DESIGNATED WITHIN THE DRAWING TITLE
- G. SELECTION OF A VEHICLE USED TO TRANSPORT THE DESIGNATED ITEMS WILL BE IN ACCORDANCE WITH HAZARDOUS MATERIALS REGULATIONS OF DOT AND AR 55-355, CHAPTER 213, FOR EXPLOSIVES AND OTHER DANGEROUS ARTICLES, IN FULL.
- H. THE LOAD SHOWN ON PAGES 4 AND 5 IS BASED ON A TRAILER EQUIPPED WITH SPECIAL BULKHEAD BRACES HAVING 35'-0" BETWEEN THE BULKHEAD BOARDS. THE LOAD REQUIRES THE USE OF STRAPPING TO SECURE THE UPRIGHT BRACES, SHORTER TRAILERS CAN BE USED. SEE GENERAL NOTE "O" AT RIGHT.
- THE LOAD SHOWN ON PAGES 6 AND 7 IS BASED ON A TRAILER WHICH HAS A THE LOAD SHOWN ON PAGES 6 AND / IS BASED ON A TARTER MITTING THE BULKHEAD BUILT INTO THE FRONT WALL AND IS EQUIPPED WITH A SPECIAL BULKHEAD BRACE AT THE REAR OF THE TRAILER. THE DISTANCE FROM THE FRONT WALL TO THE BULKHEAD BOARDS AT THE REAR IS 38"-6", STRAPPING IS NOT REQUIRED FOR SECURING THE BULKHEAD BRACES.
- K. THE LOAD SHOWN ON PAGES 8 AND 9 IS BASED ON A TRAILER EQUIPPED WITH A CAMUS III RESTRAINING SYSTEM. THIS SYSTEM CONSISTS OF ADJUSTABLE BULKHEADS AT THE PRONT AND REAR OF THE TRAILER. THE DISTANCE BETWEEN THE BULKHEADS AT THE MAXIMUM OPEN POSITION IS 37"-8-1/2"; THE DISTANCE AT THE MINIMUM CLOSED POSITION IS 30'-4-1/2".
- GROSS WEIGHT AND AXLE DISTRIBUTION OF WEIGHT FOR A LOAD WILL BE THE RESPONSIBILITY OF THE CARRIER, THE CARRIER WILL ADVISE THE SHIPPER OF THE APPLICABLE LOADING REGUIREMENTS, AND THE SHIPPER WILL LOAD ACCORDINGLY.
- M. NOTICE: A SHIPMENT WILL BE POSITIONED IN A TRAILER CONSISTENT WITH THE WEIGHT LAWS OF THE STATES THROUGH WHICH THE TRAILER WILL BE TRANS-PORTED BY HIGHWAY (MOTOR CARRIER). THE NUMBER OF UNITS MAY BE ADJUSTED TO FIT THE QUANTITY TO BE SHIPPED; HOWEVER, THE APPROVED METHODS CONTAINED HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE. FOR BLOCKING, BRACING, AND STAYING OF THE DESIGNATED ITEMS.
- N. WHEN ANY STRAP IS SEALED AT AN END-OVER-END LAP JOINT, A MINIMUM OF TWO (2) SEALS, BUTTED TOGETHER, WITH TWO (2) PAIR OF CRIMPS FER SEAL MUST BE USED TO SEAL THE JOINT. CAUTION: EXERCISE CARE DURING TENSIONING TO PREVENT DAMAGE TO THE CONTAINERS.

(CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

<u>LUMBER</u> ::	SEE TM 743-200-1, DUNNAGE LUMBER; FED SPEC MM-L-751.
<u>NAILS</u> ::	COMMON, CEMENT COATED OR CHEMICALLY ETCHED, FED SPEC FF-N-105.
STRAPPING, STEEL:	ALT: ANNULAR-RING TYPE NAIL OF THE SAME SIZE. TYPE I OR IV, FINISH A, OR B, FOR 1-1/4" STRAPPING AND FINISH A, B, OR C FOR 2" STRAPPING; FED SPEC QQ-S-781.
STRAP SEAL:	COMMERCIAL GRADE.
ANTI-CHAFING MATERIAL :	NEUTRAL BARRIER MATERIAL MIL-8-121 (OR EQUAL).
WIRE::	ANNEALED, BLACK; FED SPEC QQ-W-461.

(GENERAL NOTES CONTINUED)

- O. IF SPECIAL AUTHORITY IS GRANTED BY HIGHER HEADQUARTERS, AND PROVIDING THEY ARE FURNISHED BY THE CARRIER, REUSABLE WEB STRAP ASSEMBLIES IDENTIFIED AS AEROQUIP CORPORATION PART NO. PEZODODYPO MAY BE UTILIZED IN LIEU OF THE SPECIFIED 2" STEEL STRAPPING FOR THE SECUREMENT OF THE UPRIGHT BRACES IN THE LOAD DEPICTED ON PAGES 4 AND 5. THE SHIPPER IS RESPONSIBLE FOR CLOSE INSPECTION OF THE WEB STRAP ASSEMBLIES DURING INSTALLATION TO ENSURE THAT ASSEMBLIES WICH HAVE BEEN DAMAGED SUFFICIENTLY TO IMPAIR THEIR STRENGTH WILL NOT BE USED. SCUFF SLEEVES WILL BE POSITIONED TO INCIR STRENGTH WILL NOT BE USED. SCOPP SLEEVES WILL BE POSITIONED TO PROVIDE PADDING WHERE A WEB STRAP IS BEARING ON AN URRIGHT BRACE, THE STRAPPING WILL BE DRAWN TAUT WHEN ASSEMBLIES ARE TENSIONED, AND MUST FORM AT LEAST ONE AND ONE-HALF COMPLETE WRAMS ON A TAKEUP SPOOL OF A TENSIONING DEVICE. A SOCKET WRENCH HAVING AN 18" HANDLE CAN BE USED TO ACHIEVE PROPER STRAP TAUTNESS. ONE MAN, UNASSISTED AND USING THE LEVER ADVANTAGE OF AN 18" LONG WRENCH HANDLE TO ITS FULLEST EXTENT, CAN ACHIEVE THE PROPER PRESTRESS IN A WEB STRAP ASSEMBLY.
- P. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE, FOR EXAMPLE, 2" X 4" MATERIAL IS ACTUALLY 1-1/2" THICK BY 3-1/2" WIDE OR 1-5/8" THICK BY 3-5/8" WIDE AND 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY 5-1/2" WIDE OR 1-5/8" THICK BY 5-5/8" WIDE, IF THOSE MEMBERS SPECIFICALLY IDENTIFIED AS "STRUTS" WITHIN THE KEY NUMBERS OF A DEPICTED LOAD ARE SPECIFIED TO BE DOUBLED 2" THICK MATERIAL AND LAMINATED, IT IS PERMISSIBLE TO USE 4" X 4" MATERIAL IN LIEU OF TWO LAMINATED PIECES OF 2" X 6" MATERIAL.
- Q. NOTICE: A STAGGERED NAILING PATTERN WILL BE USED WHEREVER POSSIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE ASSEMBLIES, OR WHEN LAMINATING DUNNAGE. DO NOT NAIL BLOCKING TO THE TRAILER WALLS OR FLOOR OR BULKHEADS. ALL NAILING WILL BE WITHIN THE DUNNAGE.
- R. PORTIONS OF THE TRAILER BODIES DEPICTED WITHIN THIS PROCEDURAL DRAWING, SUCH AS ONE OF THE SIDEWALLS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.
- FOR ADDITIONAL GUIDANCE, ATTENTION IS DIRECTED TO THE "SPECIAL NOTES" SECTION WHICH IS IMMEDIATELY ADJACENT TO A DEPICTED OUTLOADING METHOD.
- TRAILERS LONGER THAN 40'-0" CAN BE USED FOR THE LOADS SHOWN ON TRAILERS LONGER THAN 40"-0" CAN BE USED FOR THE LOADS SHOWN ON PAGES 6 THROUGH 9 IF SUCH TRAILERS COMPLY WITH REQUIREMENTS OF GENERAL NOTE "D" AT THE LEFT, HOWEVER, IT SHOULD BE NOTED THAT TOFC CARS IN THE PRESENT DAY FLEET ARE DESIGNED TO HANDLE TWO (2) 40"-0" LONG TRAILERS AND THRERFORE SHIPMENT OF A LONGER TRAILER WOULD LIMIT THE USE OF A CAR TO A ONE-TRAILER LOAD SECURED TO THE "HITCH" ON THE "B-END"OF

REVISIONS

REVISION NO. 1, DATED FEBRUARY 1975, CONSISTS OF:

- ADDING PROVISIONS FOR SHIPPING THE M611 CONTAINER

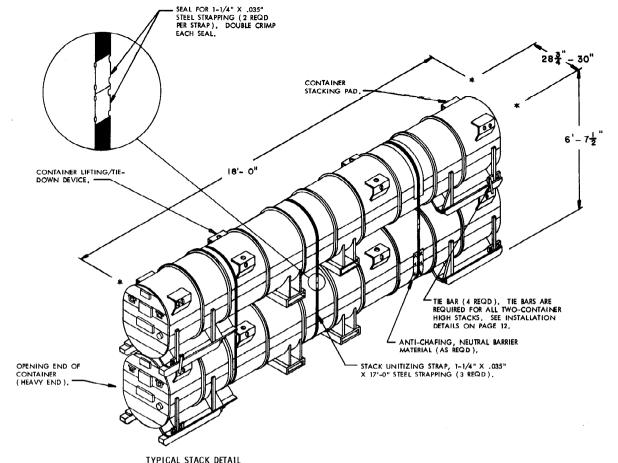
- ADDING MOVISIONS FOR SHIPPING THE MOTE CONTAINER.

 ADDING "UNITIZATION AND HANDLING PROCEDURES" ON PAGE 3.

 ADDING "TIE BAR INSTALLATION" DETAILS ON PAGE 12.

 OMITTING PROCEDURES FOR TRAILERS HAVING 25'-0" BETWEEN INSTALLED BULKHEADS AND SUBSTITUTING, THEREFORE, PROCEDURES FOR TRAILERS HAVING 35'-0" AND/OR 38'-6" BETWEEN INSTALLED BULKHEADS.

 ADDING PROCEDURES FOR TRAILERS EQUIPPED WITH A CAMUS III RESTRAINING
- UPDATING THE GENERAL NOTES AND DRAWING FORMAT.
- CHANGING DRAWING FILE NO. FROM GM15A38 T.O.F.C. TO GM15HA4.



TYPICAL STACK DETAIL

(THE M430 CONTAINER IS SHOWN)

UNITIZING AND HANDLING PROCEDURAL GUIDANCE

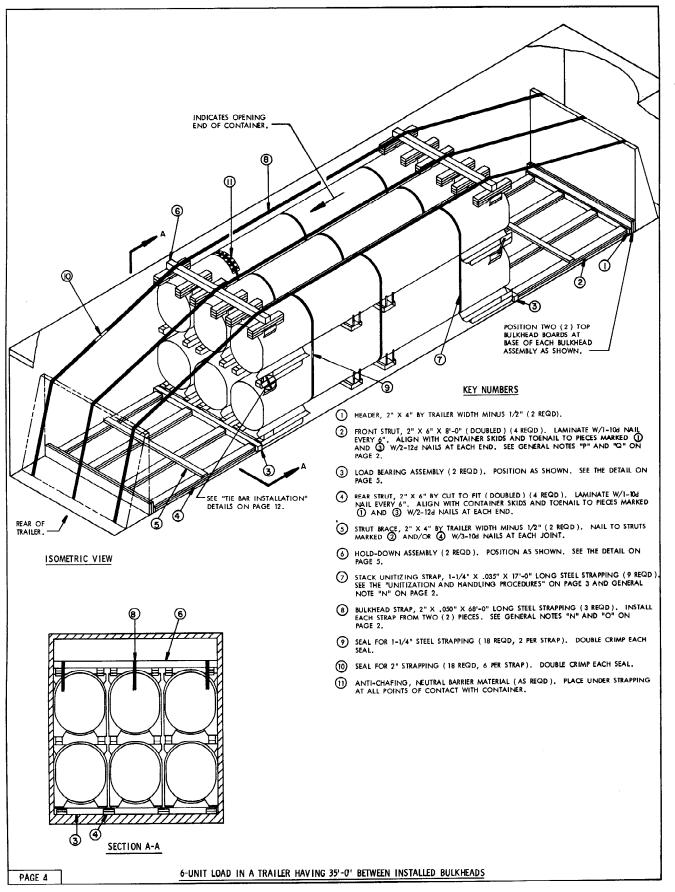
- 1. STACKING CONTAINERS FOR UNITIZING.
 - A. THE UPPER CONTAINER SHOULD BE PLACED AS CLOSELY AS POSSIBLE IN VERTICAL ALIGNMENT WITH THE LOWER CONTAINER.
 - POSITION THE OPENING END OF THE UPPER CONTAINER ABOVE THE OPENING END OF THE LOWER CONTAINER.
 - C. THE SKIDS OF THE UPPER CONTAINER SHOULD BE FULLY SEATED UPON THE STACKING PADS OF THE LOWER CONTAINER.
- 2. APPLICATION OF CONTAINER TIE BARS.
 - A. THE BARS ARE LOCATED ON THE SIDE OF THE CONTAINER.
 - INSTALL FOUR TIE BARS, TWO ON EACH SIDE OF A TWO-CONTAINER HIGH STACK, FOR INSTALLATION DETAILS SEE PAGE 12.
- 3. INSTALLATION OF 1-1/4" X .035" UNITIZING STEEL STRAPPING.
 - EACH OF THE THREE UNITIZING STRAPS SHOULD BE POSITIONED AROUND THE CONTAINERS AS SHOWN, PLACE STRAPPING SO THAT IT LAYS FLAT AND STRAIGHT WITH THE CONTOUR OF THE CONTAINERS; I.E., VERTICAL ALONG THE SIDES AND STRAIGHT ACROSS THE TOP AND BOTTOM OF THE STACK.
 - PLACE ANTI-CHAFING NEUTRAL BARRIER MATERIAL UNDER THE STRAPPING AT ALL POINTS OF CONTACT WITH CONTAINERS AND SECURE TO PREVENT DISLODGE-MENT DURING AND AFTER STRAP APPLICATION, STRIPS OF ANTI-CHAFING MATERIAL MAY BE TAPED OR STRING-TIED TO THE CONTAINER OR STRAPPING, OR IT CAN BE FORMED INTO STRAP ENCIRCLING TUBES BY WINDING THE MATERIAL AROUND THE STRAPPING TO FORM A SELF-HOLDING UNIT
 - STRAPPING WILL BE FIRMLY TENSIONED, AND EACH END-OVER-END LAP JOINT WILL BE SEALED WITH TWO DOUBLE CRIMFED STRAP SEALS AS SHOWN. SEE GENERAL NOTE "N" ON PAGE 2. THE LAP JOINTS WILL BE MADE ALONG THE SIDES OF THE STACK SO THAT THE SEALS WILL NOT BE IN CONTACT WITH THE CONTAINERS. DURING STRAP TENSIONING, CARE SHOULD BE EXERCISED TO ENSURE THAT THE CONTAINERS ARE NOT DAMAGED. EXCESS STRAPPING (STRAP ENDS) SHOULD BE CUT OR BROKEN OFF NEAR THE JOINT SEALS.

(CONTINUED AT RIGHT)

UNITIZATION AND HANDLING PROCEDURES

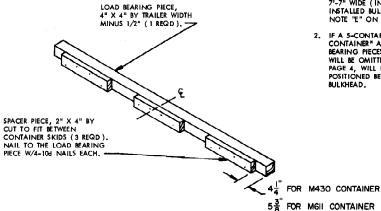
(UNITIZING AND HANDLING PROCEDURAL GUIDANCE CONTINUED)

- 4. CONTAINER OR CONTAINER STACK HANDLING.
 - NOTES: (1) APPROVED MATERIALS HANDLING EQUIPMENT (MHE) IS SPECIFIED IN OTHER DOCUMENTS. MHE IS INTENDED TO MEAN EQUIPMENT SUCH AS FORKLIFT TRUCKS, CRANES, HAND TRUCKS, DOLLIES, ROLLER ASSEMBLIES, SLINGS AND SPREADER BARS.
 - (2) PRECAUTIONARY HANDLING TECHNIQUES NORMALLY EMPLOYED OR AS SPECIFIED FOR THE TYPE OF COMMODITY INVOLVED WILL BE OBSERVED.
 - A. ONLY APPROVED AND APPROPRIATELY SIZED MATERIALS HANDLING EQUIPMENT WILL BE USED FOR HANDLING THE DEPICTED CONTAINERS.
 - IF HANDLING IS ACCOMPLISHED WITH A FORKLIFT TRUCK, THE CONTAINERS SHOULD BE HANDLED FROM AS IDE POSITION AS MUCH AS POSSIBLE. CARE MUST BE EXERCISED WHEN INSERTING FORKS UNDER A CONTAINER, TO RECVENT DAMAGE TO THE CONTAINER BY THE FORK TINES OR THE FORKLIFT PACKAGE GUARD. FOR VERY SHORT "INCHING" SPEED MOVEMENTS, SUCH AS WILL BE EXPERIENCED DURING TRAILER LOADING, A TWO-HIGH CONTAINER STACK MAY BE HANDLED BY INSERTING THE FORKS OF A FORKLIFT TRUCK INTO THE FORK RECEPTACLES OF THE UPPER CONTAINER. FOR END HANDLING OF A CONTAINER STACK, THE FORKS SHOULD BE INSERTED UNDER THE SKIDS OF THE CONTAINER. ALSO, IF A CONTAINER OR CONTAINER STACK IS HANDLED FROM AN END POSITION, LIFTING SHOULD BE DONE AT THE HEAVY END (OPENING END) OF THE CONTAINER. IF HANDLING IS ACCOMPLISHED WITH A FORKLIFT TRUCK, THE CONTAINERS END (OPENING END) OF THE CONTAINER.
 - C. IF A ONE-OR TWO-HIGH CONTAINER STACK IS HANDLED BY SLINGING, THE SLING MAY BE ATTACHED TO THE LIFTING DEVICES OF THE TOP CONTAINER.



SPECIAL NOTES:

- A 6-UNIT LOAD OF M430 OR M611 CONTAINERS IS SHOWN IN A 40'-0" LONG BY
 7"-7" WIDE (INSIDE DIMENSION) VAN TRAILER HAVING 35'-0" CLEARANCE BETWEEN
 INSTALLED BULKHEAD BRACES, SHORTER TRAILERS CAN BE USED, SEE GENERAL
 NOTE "E" ON PAGE 2.
- 2. IF A 5-CONTAINER LOAD IS TO BE SHIPPED, THE "PROCEDURES FOR OMITTED CONTAINER" AS SPECIFIED ON PAGE 10 WILL APPLY. ALSO, THE TWO CENTER BEARING PIECES OF THE HOLD-DOWN ASSEMBLIES, PIECES MARKED @ ON PAGE 4, WILL BE OMITTED AND THE CENTER BULKHEAD STRAP, PIECE MARKED @ ON PAGE 4, WILL NOT BE RUN OVER THE HOLD-DOWN ASSEMBLIES BUT WILL BE POSITIONED BELOW THE SPANNER PIECES OF THE ASSEMBLIES FROM BULKHEAD TO BULKHEAD



LOAD BEARING ASSEMBLY

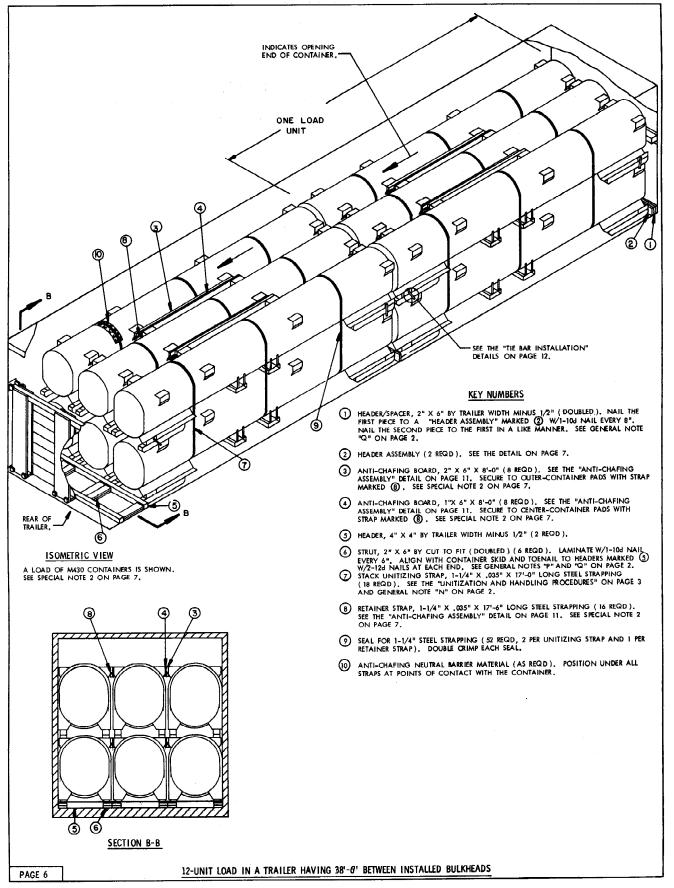
SPANNER PIECE, 4" X 4" BY TRAILER WIDTH MINUS 1/2" (1 REQD). BEARING PIECE, 2" X 4" X 28" (DOUBLED) (6 REQD). NAIL THE FIRST PIECE TO THE SPANNER PIECE W/3-12d NAIL. NAIL THE SECOND PIECE TO THE FIRST W/5-10d NAILS. ST OP CLEAT, 2" X 4" X 9" (12 REQD). NAIL TO THE BEARING PIECE W/3-10d NAILS.

HOLD-DOWN ASSEMBLY

	BILL OF MATERIAL	
LUMBER	LINEAR FEET	BOARD FEET
2" X 4" 2" X 6" 4" X 4"	115 124 31	77 124 42
NAILS	NO. REQD	POUNDS
10d (3") 12d (3-1/4")	304 68	4-3/4 1-1/4
STEEL STRAPPING, 2" X SEAL FOR 1-1/4" STRAPI SEAL FOR 2" STRAPPING	" X .035" 153" .050" 204" ING 18 ING 18	REQD 68 LBS REQD 1 LB REQD 4 LBS

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT	(APPROX)
	ONTAINER 6		
	TOTAL WEIGHT	20,060 LBS	
ITEM	QUANTITY	WEIGHT	(APPROX)
M611 C DUNNA	ONTAINER 6	20, 106 LBS 710 LBS	
	TOTAL WEIGHT	20,816 LBS	



SPACER PIECE, 2" X 4"
X 13" (1 REQD). NAIL TO THE
BEACH JOINT.

SPACER PIECE, 2" X 4"
X 13" (1 REQD). NAIL TO
THE SPACER PIECE W/2-104 NAILS

BEACH JOINT.

HEADER ASSEMBLY

LUMBER	LINEAR FEET	BOARD FEET
1" X 6"	64	32
2" X 4"	9	6
2" X 6"	113	113
4" X 4"	16	22
NAILS	NO, REQD	POUNDS
10d (3")	50	1
12d (3-1/4")	24	1/2
16d (3-1/2")	8	1/4

STEEL STRAPPING, 1-1/4" X .035" ---- 586' REQD ----- 84 LBS SEAL FOR 1-1/4" STRAPPING ------ 57 REQD ----- 3 LBS ANTI-CHAFING MATERIAL ----- AS REQD ----- NIL

FOR A LOAD OF MASO CONTAINERS. SEE SPECIAL NOTE 2 ABOVE.

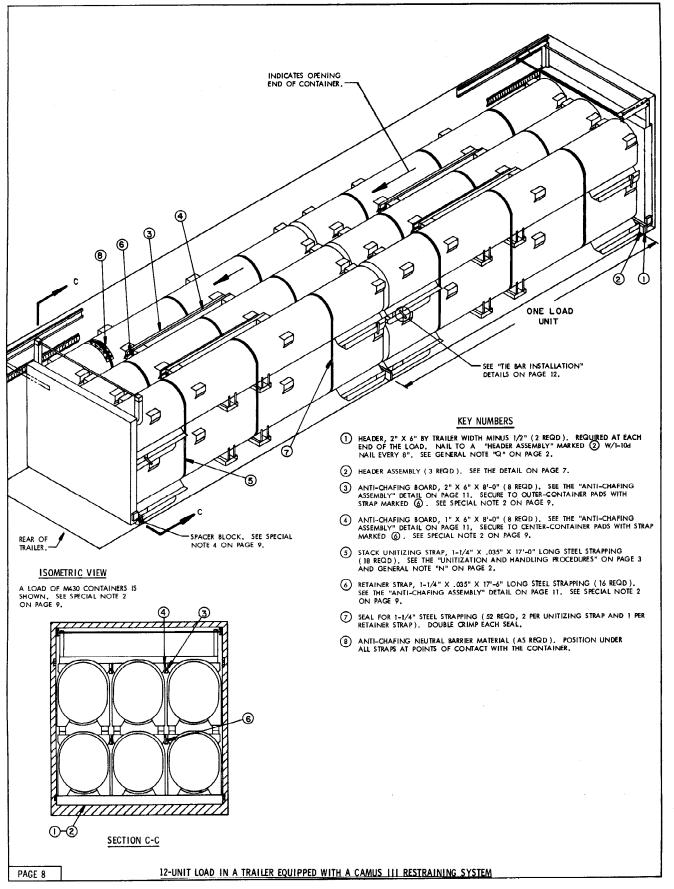
SPECIAL NOTES:

- 1. A 12-UNIT LOAD OF M430 CONTAINERS IS SHOWN IN A 40'-0" LONG BY 7'-7" WIDE (INSIDE DIMENSION) VAN TRAILER HAVING 38'-6" BETWEEN THE BULKHEAD AT THE FRONT BULT INTO THE FRONT WALL) AND THE INSTALLED BULKHEAD AT THE REAR, SEE GENERAL NOTES "E" AND "T" ON PAGE 2.
- 2. THE DEPICTED PROCEDURES ARE ALSO APPLICABLE TO A 12-UNIT LOAD OF M611 CONTAINERS, EXCEPT THAT "ANTI-CHAFING ASSEMBLIES", PIECES MARKED ②, ① AND ③, WILL NOT BE REQUIRED. SEE SPECIAL NOTE 3 BELOW.
- 3. THE DEPICTED LOAD CONFIGURATION MAY BE ADJUSTED TO SATISFY THE SHIPMENT OF A LESS-THAN-FULL-LOAD QUANTITY BY APPLYING THE "PROCEDURES FOR OMITTED CONTAINER" AS SPECIFIED ON PAGE 10, NOTE THAT ANY 3-CONTAINER LOAD UNIT CONSISTING OF EITHER THE MAJO OR THE MAJ1 CONTAINERS MUST BE PROVIDED WITH "ANTI-CHAFING ASSEMBLIES" BETWEEN THE FIRST-LAYER CONTAINERS.

LOAD AS SHOWN

<u>ITEM</u>	QUANTITY	WE	IGHT	(APPROX)
	VTA INER 12			
1	OTAL WEIGHT	39,221	LBS	
ITEM	QUANTITY	WE	GHT	(APPROX)
M611 CON	17AINER 12	40,212 241	LBS LBS	
1	OTAL WEIGHT	40,453	LBS	

12-UNIT LOAD IN A TRAILER HAVING 38'-6' BETWEEN INSTALLED BULKHEADS



SPECIAL NOTES:

- 1. A 12-UNIT LOAD OF M430 CONTAINERS IS SHOWN IN A 40'-0" LONG BY 7'-7" WIDE (INSIDE DIMENSION) TRAILER WHICH IS EQUIPPED WITH A CAMUS IN RESTRAINING SYSTEM HAVING 30'-4-1/2" TO 37'-8-1/2" BETWEEN ADJUSTABLE BULKHEADS. SEE GENERAL NOTES "E" AND "T" ON PAGE 2.
- 2. THE DEPICTED PROCEDURES ARE ALSO APPLICABLE TO A 12-UNIT LOAD OF MAII CONTAINERS, EXCEPT THAT "ANTI-CHAFING ASSEMBLIES", PIECES MARKED ③, ④ AND ⑥, WILL NOT BE REQUIRED. SEE SPECIAL NOTE 5. BELOW.
- 3. THE FORWARD BULKHEAD WILL BE LOCATED AT THE MOST FORWARD POSITION BEFORE LOADING BEGINS.
- 4. NOTICE: AFTER THE LATCH PINS OF THE BULKHEAD HAVE BEEN INSERTED INTO THE PIN LOCKING HOLES IN THE TRAILER BELT RAIL, THE SPACER BLOCKS, LOCATED NEAR THE LATCH PINS AT THE BOTTOM OF THE BULKHEAD, MUST BE LOCKED IN POSITION FOR SHIPMENT.
- 5, THE DEPICTED LOAD CONFIGURATION MAY BE ADJUSTED TO SATISFY THE SHIPMENT OF A LESS-THAN-FULL-LOAD QUANTITY BY APPLYING THE "PROCEDURES FOR OMITTED CONTAINER" AS SPECIFIED ON PAGE 10, NOTE THAT ANY 5-CONTAINER LOAD UNIT CONSISTING OF EITHER THE M430 OR THE M411 CONTAINERS MUST BE PROVIDED WITH "ANTI-CHAFING ASSEMBLIES" BETWEEN THE FIRST-LAYER CONTAINERS.

	BILL OF MATERIAL>	K
LUMBER	LINEAR FEET	BOARD FEET
1" X 6" 2" X 4" 2" X 6"	64 13 103	32 9 103
NAILS	NO. REQD	POUNDS
10d (3") 16d (3-1/2")	36 12	3/4 1/4

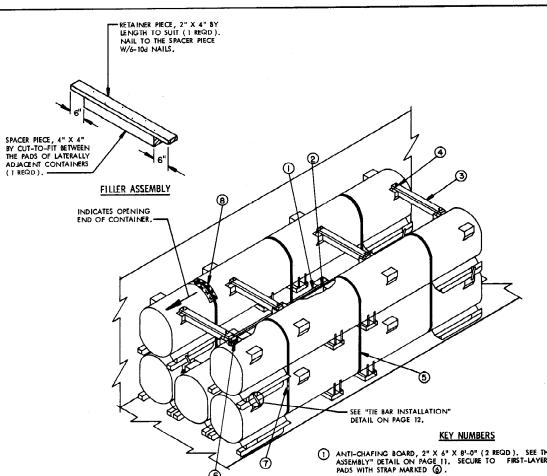
SEAL FOR 1-1/4" STRAPPING ------ S2 REQD ------ 3 LBS
ANTI-CHAFING MATERIAL ------- AS REQD ------ NIL

LOAD AS SHOWN

ITEM	QUANTITY	WEI	GHT	(APPROX)
M430 C	ONTAINER 12	38,700 448	LBS LBS	
	TOTAL WEIGHT	39, 148	LBS	
ITEM	QUANTITY	WEI	GHT	(APPROX)
M611 C	ONTAINER 12	40,212 168	LBS LBS	
****	TOTAL WEIGHT	40,380	LBS	

12-UNIT LOAD IN A TRAILER'EQUIPPED WITH A CAMUS III RESTRAINING SYSTEM

^{*} FOR A LOAD OF M430 CONTAINERS. SEE SPECIAL NOTE 2 ABOVE.



SPECIAL NOTES:

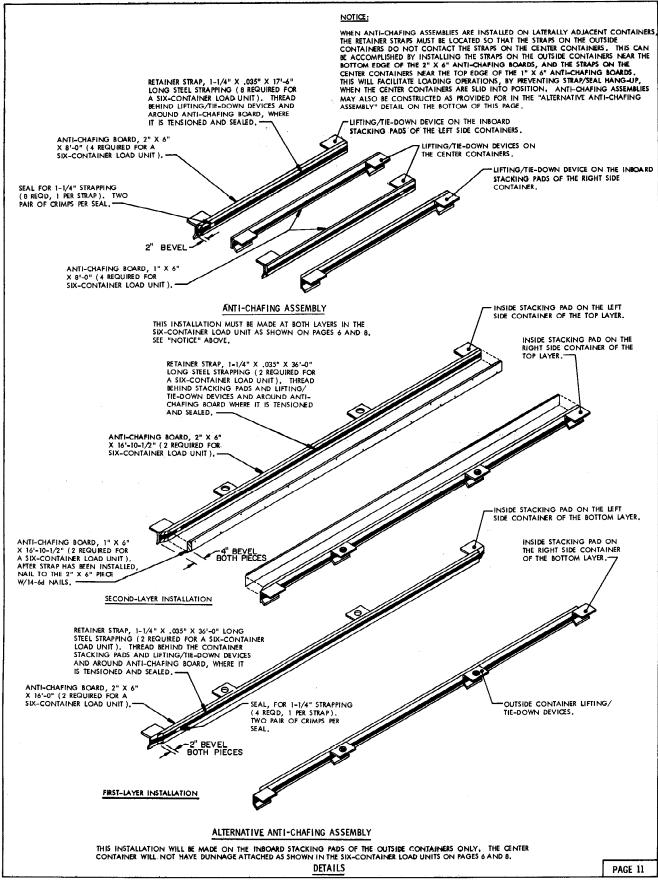
1. A 5-CONTAINER LOAD UNIT OF M430 OR M611 CONTAINERS IS SHOWN IN A 5-CONTAINER LOAD UNIT OF M430 OR M611 CONTAINERS IS SHOWN IN A 71-7" WIDE (INSIDE DIMENSION) TRAILER. THIS LOAD UNIT MAY BE SUBSTITUTED FOR ANY 6-CONTAINER LOAD UNIT DEPICTED ON PAGES 4 THRU 9 TO PROVIDE FOR THE SHIPMENT OF A LESS-THAN-FULL-LOAD QUANTITY. HOLD-DOWN ASSEMBLES, HEADERS, STRUTS, SOLID FILL AND OTHER APPLICABLE DUNNAGE WILL BE INSTALLED AS SECIFED IN THE BASIC LOAD VIEW FOR THE TYPE OF TRAILER BEING USED. NOTE THAT PIECES MARKED (3) AND (4) IN THE ISOMETRIC VIEW ABOVE, WILL NOT BE REQUIRED FOR SHIPMENT OF A 5-CONTAINER LOAD UNIT IN THE TRAILER DEPICTED ON PAGE 4. HOWEVER, THE REQUIREMENTS OF SPECIAL NOTE 2 ON PAGE 5 WILL APPLY. THE REQUIREMENTS OF SPECIAL NOTE 2 ON PAGE 5 WILL APPLY.

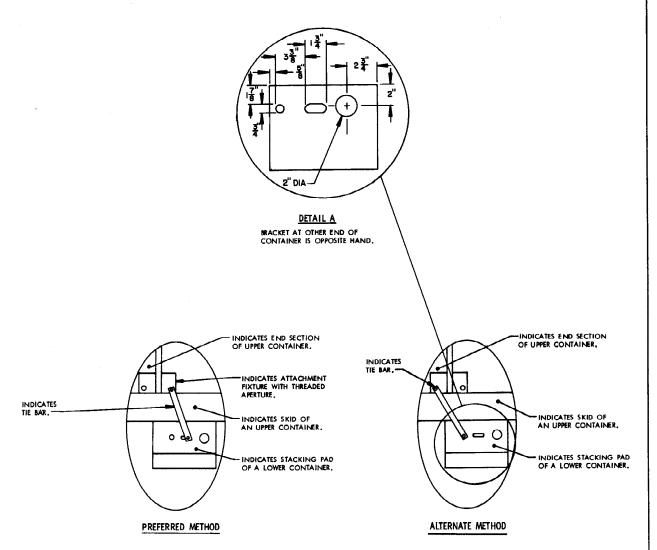
ISOMETRIC VIEW

- ANTI-CHAFING BOARD, 2" X 6" X 8"-0" (2 REQD). SEE THE "ANTI-CHAFING ASSEMBLY" DETAIL ON PAGE 11. SECURE TO FIRST-LAYER OUTER-CONTAINER PADS WITH STRAP MARKED (3).
- (2) ANTI-CHAFING BOARD, 1" X 6" X 8"-0" (2 REQD). SEE THE "ANTI-CHAFING ASSEMBLY" DETAIL ON PAGE 11. SECURE TO FIRST-LAYER CENTER-CONTAINER PADS WITH STRAPS MARKED (3).
- (3) FILLER ASSEMBLY (4 REQD). SEE THE DETAIL ABOVE AND SPECIAL NOTE 1 AT LEFT.
- TIE WIRE, NO. 14 GAGE 24" LONG (8 REQD), INSTALL TO FORM A COMPLETE LOOP AROUND FILLER ASSEMBLY AND CONTAINER PAD, BRING ENDS TOGETHER AND TWIST TAUT, SECURE THE WIRE TO THE FILLER ASSEMBLY WITH A PARTIALLY DRIVEN 104 NAIL BENT OVER THE WIRE, OR WITH A STRAP STAPLE.
- 3 STACK UNITIZING STRAP, 1-1/4" X .035" X 17'-0" LONG STEEL STRAPPING (6 REQD). SEE THE "UNITIZATION AND HANDLING PROCEDURES" ON PAGE 3 AND GENERAL NOTE "N" ON PAGE 2.
- (4 REQD).

 RETAINER STRAP, 1-1/4" X .035" X 17"-4" LONG STEEL STRAPPING (4 REQD).

 SEE THE "ANTI-CHAFING ASSEMBLY" DETAIL ON PAGE 11.
- SEAL FOR 1-1/4" STEEL STRAPPING (16 REQD, 2 PER UNITIZING STRAP AND 1 PER RETAINER STRAP). DOUBLE CRIMP EACH SEAL.
- (8) ANTI-CHAFING NEUTRAL BARRIER MATERIAL (AS REGD), POSITION UNDER ALL STRAPS AT POINTS OF CONTACT WITH CONTAINER.





TIE BAR INSTALLATION

NOTE: AT THE OTHER END OF A STACK, THE TIE BAR WILL ANGLE UPWARD IN A DIRECTION OPPOSITE TO THAT SHOWN ABOVE AND TOWARD THE ADJACENT END SECTION OF THE UPPER CONTAINER.