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| APPROVED BY U. S. COAST GUARD <i>Michael M. ...</i> | APPROVED BY BUREAU OF EXPLOSIVES <i>E. P. ...</i> |
| DATE <i>1/25/85</i> | DATE <i>1/25/85</i> |
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| DATE <i>12/10/85</i> | DATE <i>11/2/85</i> |
| REVISION NO. 2 SIGNED <i>R. W. ...</i> | REVISION NO. 2 SIGNED <i>J. H. ...</i> |
| DATE <i>4/29/88</i> | DATE <i>4/4/88</i> |
| | REVISION NO. 3 SIGNED <i>J. H. ...</i> |
| | DATE <i>4/11/89</i> |

PATRIOT

LOADING AND BRACING[⊙] IN MILVAN CONTAINERS[⊕] OF THE COMPLETE ROUND IN MISSILE CANISTER (SHIPPING, STORAGE AND LAUNCH CONTAINER), W/O OVERPACK FOR SHIPMENT BY T/COFC CARRIER

- ⊙ LOADING AND BRACING SPECIFICATIONS SET FORTH WITHIN THIS DRAWING ARE APPLICABLE TO LOADS THAT ARE TO BE SHIPPED BY TRAILER/CONTAINER-ON-FLAT-CAR (T/COFC) RAIL CARRIER SERVICE. THESE SPECIFICATIONS MAY ALSO BE USED FOR LOADS THAT ARE TO BE MOVED BY MOTOR OR WATER CARRIERS. SEE GENERAL NOTE "M" ON PAGE 2.
- ⊕ ONLY MILVAN CONTAINERS WHICH HAVE BEEN MODIFIED TO INCLUDE A MECHANICAL LOAD-BRACING SYSTEM THAT SATISFIES THE REQUIREMENTS OF THE BUREAU OF EXPLOSIVES PAMPHLET 6C WILL BE USED FOR THE MOVEMENT OF AMMUNITION BY T/COFC SERVICE. CAUTION: OTHER REQUIREMENTS OF PAMPHLET 6C ALSO APPLY.

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| REVISIONS | | APPROVED BY | DATE | APPROVED BY | DATE |
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| 1 | APR 85 | <i>W. F. ...</i> | <i>1/25/85</i> | <i>E. P. ...</i> | <i>1/25/85</i> |
| 2 | APR 87 | <i>W. F. ...</i> | <i>12/10/85</i> | <i>E. P. ...</i> | <i>11/2/85</i> |
| 3 | MAY 88 | <i>W. F. ...</i> | <i>4/29/88</i> | <i>J. H. ...</i> | <i>4/4/88</i> |
| U. S. ARMY DARGOM DRAWING | | | | | |
| MARCH 1983 | | | | | |
| CLASS | DIVISION | DRAWING | FILE | | |
| 19 | 48 | 8153 | GM 15 PAI | | |

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 UNLOADING PROCEDURES SPECIFIED HEREIN ARE APPLICABLE TO THE PATRIOT COMPLETE ROUND, WHEN PACKED IN THE MISSILE CANISTER (SHIPPING, STORAGE AND LAUNCH CONTAINER), W/O OVERPACK.

C. FOR DETAIL OF THE MISSILE CANISTER, SEE DRAWING NUMBER 11450000, AND THE "TYPICAL STACK DETAIL" ON PAGE 3.

CANISTER DIMENSIONS-----234" LONG BY 42-3/8" WIDE BY 38-3/4" HIGH
GROSS WEIGHT-----3,750 LBS (APPROX)

D. THIS ITEM IS A DOT CLASS "A" EXPLOSIVE AND A COAST GUARD CLASS X-C. THE UNLOADING PROCEDURES SPECIFIED HEREIN CAN ALSO BE UTILIZED FOR THE SHIPMENT OF THE DEPICTED CANISTERS WHEN THEY ARE LOADED WITH AN ITEM WHICH IS IDENTIFIED DIFFERENTLY BY NOMENCLATURE THAN THE ITEM DESIGNATED WITHIN THE DRAWING TITLE.

E. OTHER TYPES OF LADING ITEMS MAY BE LOADED IN MILVAN CONTAINERS WHICH ARE PARTIALLY LOADED WITH THE DESIGNATED ITEMS, PROVIDING THE TOTAL LOAD IS COMPATIBLE, EXISTING DIRECTIVES ARE NOT VIOLATED AND THE OTHER LADING ITEMS ARE BLOCKED AND BRACED TO EQUAL THE BLOCKING AND BRACING CRITERIA SPECIFIED HEREIN.

F. THE LOADS AS SHOWN ARE BASED ON A 20' LONG BY 8' WIDE BY 8' HIGH MILVAN CONTAINER WITH INSIDE DIMENSIONS OF 19'-4" LONG BY 92" WIDE BY 87" HIGH. THE LOADS ARE DESIGNED FOR TRAILER/CONTAINER-ON-FLAT CAR (T/COFC) SHIPMENT.

G. THE SPECIFIED UNLOADING PROCEDURES ARE FOR CONTAINERS EQUIPPED WITH SELF-CONTAINED MECHANICAL BRACING DEVICES AS DESCRIBED WITHIN BUREAU OF EXPLOSIVES PAMPHLET 6C. CROSS MEMBER ATTACHMENT FACILITIES WITHIN THESE CONTAINERS MUST PROVIDE FOR THE INSTALLATION OF LOAD BLOCKING CROSS MEMBERS AT THE HEIGHTS SPECIFIED. THE HEIGHT DIMENSIONS SPECIFIED WITHIN THIS DRAWING FOR THE INSTALLATION OF CROSS MEMBERS CONFORM WITH BUREAU OF EXPLOSIVES PAMPHLET 6C, WITH THE EXCEPTION THAT TWO (2) ADDITIONAL BELT RAILS HAVE BEEN SHOWN; ONE AT 72" AND ONE AT 83" HEIGHT FROM THE CONTAINER FLOOR. VOIDS LENGTHWISE WITHIN THE LOAD MUST BE HELD TO A MINIMUM. CROSS MEMBERS MUST BE PLACED AGAINST THE LADING AS TIGHTLY AS THE HOLE SPACING IN THE CROSS MEMBER ATTACHMENT FACILITY PERMITS. EACH CROSS MEMBER WILL BE INSTALLED WITH THE ENDS ATTACHED AS NEARLY AS POSSIBLE IN "MATED" POSITIONS (AT EQUAL HEIGHTS, AND AT EQUAL DISTANCES FROM THE END OF THE CONTAINER). CROSS MEMBERS IN EMPTY CONTAINERS AND THOSE NOT USED IN LOADED CONTAINERS MUST BE FASTENED INTO BELT RAILS FOR SHIPMENT. COMPONENTS ASSIGNED TO EACH CONTAINER MUST REMAIN THEREWITH EVEN THOUGH UNUSED DURING SOME SHIPMENTS. SEE "FILL DETAIL" ON PAGE 14 FOR THE DUNNAGING METHOD REQUIRED TO ELIMINATE AN EXCESSIVE LENGTHWISE VOID WITHIN A LOAD. THE LOAD BLOCKING COMPONENT DESIGNATED AS "CROSS MEMBER" HEREIN IS IDENTIFIED AS "BEAM ASSEMBLY" WITHIN TM 55-8115-200-24, DATED SEPTEMBER 1972. THE BEAM ASSEMBLY IS FURTHER IDENTIFIED AS NSN 8115-00-165-6623 (FSA 8115-165-6623).

H. VOIDS BETWEEN THE REAR BLOCKING AND LADING MUST NOT EXCEED ONE-HALF (1/2") INCH. ADDITIONAL VERTICAL PIECES MAY BE ADDED TO THE REAR BLOCKING ASSEMBLIES AS NECESSARY TO ACHIEVE THE PROPER THICKNESS AS REQUIRED.

J. DUNNAGE LUMBER SPECIFIED IS OF A 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.

K. A STAGGERED NAILING PATTERN WILL BE USED WHEREVER 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.

L. CAUTION: DO NOT NAIL DUNNAGE MATERIAL TO THE CONTAINER WALLS OR FLOOR. ALL NAILING WILL BE WITHIN THE DUNNAGE.

(CONTINUED ON RIGHT)

M. PORTIONS OF THE CONTAINERS DEPICTED WITHIN THIS DRAWING, SUCH AS ONE OF THE SIDE WALLS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.

N. SPECIAL T/COFC NOTES:

1. CAUTION: LOADED CONTAINERS MUST BE ON CHASSIS EQUIPPED WITH TWO BOGIE ASSEMBLIES WHEN BEING MOVED IN TOFC SERVICE, REGARDLESS OF LOAD WEIGHT WITHIN THE CONTAINERS.
2. LOAD LIMITS OF T/COFC RAIL CARS 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.
3. CHASSIS/CONTAINERS COUPLED INTO A 40-FOOT TRAILER CONFIGURATION MUST BE PLACED AT THE B-END OF A TOFC RAIL CAR. THE REAR END OF THE 40-FOOT UNIT WILL OVER-HANG THE END OF THE CAR IF IT IS PLACED AT THE A-END. TWENTY-FOOT AND 40-FOOT UNITS CAN BE LOADED ON THE SAME CAR.

O. DIMENSIONS GIVEN FOR DUNNAGE PIECES OR DUNNAGE ASSEMBLIES WILL BE FIELD CHECKED PRIOR TO THEIR ASSEMBLY AND INSTALLATION IN THE MILVAN CONTAINER. DUNNAGE ASSEMBLIES MUST BE CONSTRUCTED SO THAT A SNUG FIT WITH THE MISSILE CANISTERS IS OBTAINED. ALSO, ADJUSTMENTS MAY BE REQUIRED AS TO THE LOCATION OF CERTAIN PIECES OF DUNNAGE IN AN ASSEMBLY IN ORDER FOR THE DUNNAGE ASSEMBLY TO CONTACT THE CANISTER AT ITS SHOCK ISOLATION FRAMES.

P. NOTICE: TO FACILITATE UNLOADING IN ACCORDANCE WITH THE METHOD DESCRIBED WITHIN THE NOTES ON PAGE 5, THE MISSILE CANISTERS MUST BE LOADED INTO A CONTAINER WITH THE AFT END OF THE CANISTER ADJACENT TO THE DOORS OF THE MILVAN CONTAINER.

Q. FOR SHIPMENT OF THE MISSILE CANISTERS IN A MILVAN CONTAINER IT IS NECESSARY THAT THE SHOCK ISOLATION FRAMES AND SKIDS BE IN THE REVERSE POSITION (THE WOODEN SKIDS EXTENDING UNDER THE BODY OF THE CANISTER RATHER THAN PROTRUDING). THE OVERALL LENGTH OF THE CANISTER WILL BE REDUCED FROM 234" TO 216".

R. FOR ADDITIONAL GUIDANCE, ATTENTION IS DIRECTED TO THE "SPECIAL NOTES" SECTIONS WHICH ARE IMMEDIATELY ADJACENT TO THE DEPICTED UNLOADING METHODS.

S. CONVERSION TO METRIC EQUIVALENTS:

DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENT MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454KG.

T. POWER DRIVEN STAPLES MAY BE USED AS ALTERNATIVE FASTENERS FOR NAILS WHEN CONSTRUCTING DUNNAGE ASSEMBLIES WHICH ARE TO BE USED IN THE DELINEATED LOADS SHOWN THROUGHOUT THIS DRAWING. THE STAPLES TO BE USED MUST BE EQUAL IN LENGTH TO THE SPECIFIED NAIL SIZE AND MUST BE SUBSTITUTED ON A ONE STAPLE FOR ONE NAIL BASIS. STAPLES WHICH ARE 2-1/2" OR LESS IN LENGTH SHOULD BE IN ACCORDANCE WITH FEDERAL SPECIFICATION FF-N-105 AS NEARLY AS PRACTICABLE. STAPLES WHICH ARE LONGER THAN 2-1/2" WILL BE A COMMERCIAL GRADE, OF A QUALITY EQUIVALENT TO THOSE MANUFACTURED BY SENCO PRODUCTS INCORPORATED. NOTE: STAPLES WILL NOT BE SUBSTITUTED FOR NAILS IN ANY LOAD RESTRAINING FLOOR DUNNAGE APPLICATION.

U. IF THE CANISTERS ARE LOADED WITH AN ITEM DIFFERENT FROM THAT IDENTIFIED HEREIN (SEE GENERAL NOTE D), OR THE CONTAINER IS PARTIALLY LOADED WITH OTHER COMPATIBLE TYPES OF LADING ITEMS (SEE GENERAL NOTE E), THE LENGTHWISE CENTER OF GRAVITY MUST BE WITHIN 12 INCHES, IN EITHER DIRECTION, OF THE MID-POINT OF THE CONTAINER; AND THE MAXIMUM GROSS WEIGHT OF THE CONTAINER MAY NOT EXCEED 44,800 POUNDS.

(CONTINUED ON PAGE 3)

MATERIAL SPECIFICATIONS

LUMBER-----: TM 743-200-1 (DUNNAGE LUMBER)
AND FED SPEC MM-L-751.

NAILS-----: FED SPEC FF-N-105; COMMON.

WIRE-----: FED SPEC QQ-W-461.

REVISIONS

REVISION NO. 1, DATED APRIL 1985 CONSISTS OF:

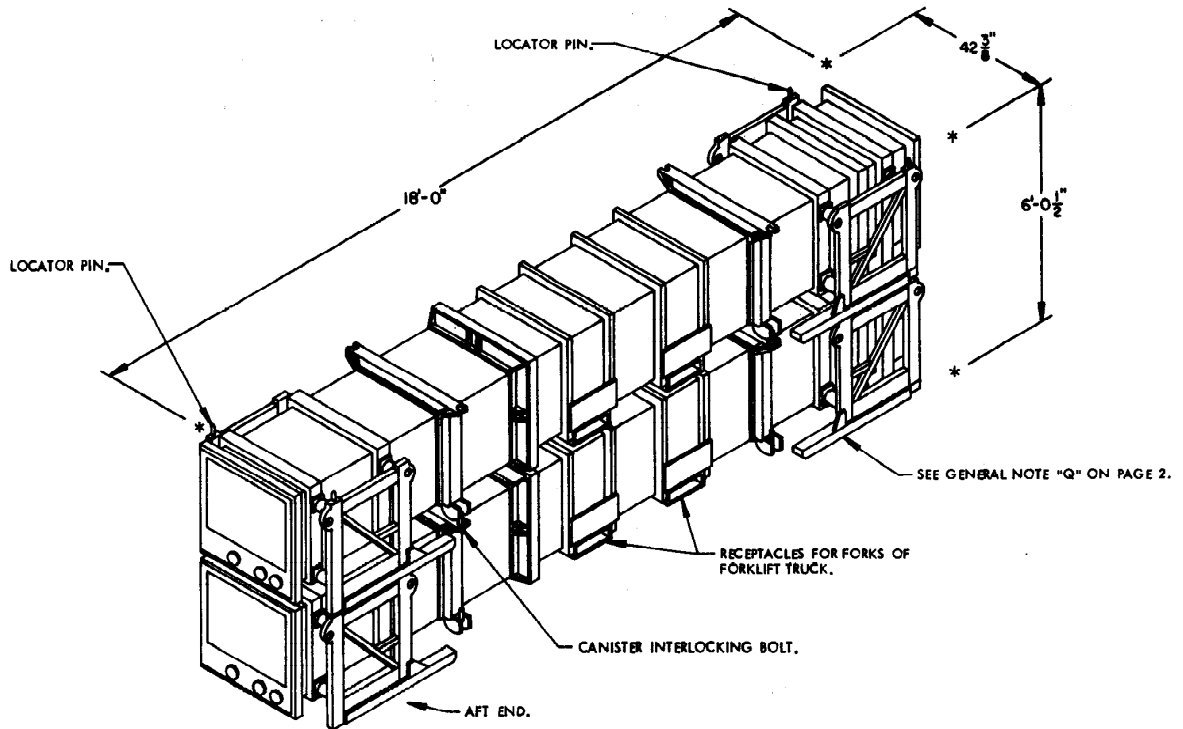
1. UPDATING GENERAL NOTES.
2. CHANGING FORWARD/REAR BLOCKING ASSEMBLIES.
3. CHANGING VERTICAL PIECES OF CENTER FILL AND SIDE FILL ASSEMBLIES.

REVISION NO. 2, DATED APRIL 1987, CONSISTS OF:

1. REDESIGN OF PUSH ASSEMBLY.
2. ADDING ADDITIONAL MATERIALS HANDLING EQUIPMENT GUIDANCE.

REVISION NO. 3, DATED MAY 1989, CONSISTS OF:

1. ADDING SPECIAL NOTE 4 ON PAGE 7.



TYPICAL STACK DETAIL

DIMENSIONS SHOWN ARE THE OVERALL DIMENSIONS WITH THE SKIDS IN THE REVERSE POSITION AS SHOWN ABOVE.

UNITIZATION AND HANDLING PROCEDURAL GUIDANCE

1. CANISTER STACKING FOR OUTLOADING PURPOSES.
 - A. THE SKIDS OF THE UPPER CANISTER MUST BE FULLY SEATED UPON THE LOCATOR PINS OF THE LOWER CANISTER.
 - B. POSITION THE FORWARD END OF THE UPPER CANISTER ABOVE THE FORWARD END OF THE LOWER CANISTER.
 - C. CANISTER INTERLOCKING BOLTS MUST BE TIGHTENED AS SECURELY AS POSSIBLE WITH A NORMAL SIZE HAND TOOL WRENCH (REF 60 FOOT POUNDS).

2. CANISTER OR CANISTER 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 CANISTERS.
- B. IF HANDLING IS ACCOMPLISHED WITH A FORKLIFT TRUCK, THE CANISTERS SHOULD BE HANDLED FROM A SIDE POSITION AS MUCH AS POSSIBLE. CARE MUST BE EXERCISED WHEN INSERTING FORKS UNDER A CANISTER, TO PREVENT DAMAGE TO THE CANISTER BY THE FORK TINES OR THE FORKLIFT PACKAGE GUARD. FOR VERY SHORT "INCHING" SPEED MOVEMENTS, SUCH AS WILL BE EXPERIENCED DURING FLAT CAR LOADING, A TWO-HIGH CANISTER STACK MAY BE HANDLED BY INSERTING THE FORKS OF A FORKLIFT TRUCK INTO THE FORK RECEPTACLES OF THE UPPER CANISTER.
- C. SLINGING OF A CANISTER OR A CANISTER STACK WILL BE ACCOMPLISHED IN ACCORDANCE WITH APPROVED PROCEDURES.
- D. IF AVAILABLE MHE DOES NOT HAVE THE CAPACITY TO LIFT A STACK OF UNITIZED CANISTERS, THEN THE LOWER CANISTER MUST FIRST BE PLACED WITH THE SKIDS ON THE FORWARD END PARTIALLY INTO THE OPEN END OF THE MILVAN CONTAINER. THE SECOND CANISTER WILL THEN BE PLACED DIRECTLY ON TOP OF THE FIRST AND WILL BE UNITIZED ACCORDING TO THE INSTRUCTIONS CONTAINED IN 1 ABOVE.
- E. DUE TO THE SIZE AND WEIGHT OF THE CANISTERS, A FORKLIFT TRUCK HAVING A MINIMUM CAPACITY OF 6,000 POUNDS AND A SIDE-SHIFT CAPABILITY SHOULD BE USED FOR HANDLING/LOADING THE CANISTERS INTO A MILVAN CONTAINER.

(GENERAL NOTES CONTINUED FROM PAGE 2)

V. MAXIMUM LOAD WEIGHT CRITERIA:

THE ITEMIZED LOAD WEIGHTS ARE CONTROLLED BY EQUIPMENT CAPABILITY FACTORS. ALSO, THESE LISTED LOAD WEIGHTS IDENTIFY THE COMBINED WEIGHT OF AMMUNITION LADING UNITS AND DUNNAGE THAT CAN BE PLACED INTO ONE MILVAN CONTAINER WITHOUT VIOLATING ONE OR MORE OF THE "CAPABILITY FACTORS". SEE NOTES 1 AND 2.

39,100 LBS IN 20-FT CONTAINER (W/O CHASSIS) ABOARD CONTAINERSHIP.

39,100 LBS IN CONTAINER ON 20-FT CHASSIS WITH DOUBLE BOGIE. SEE NOTE 3.

25,300 LBS IN CONTAINER ON 20-FT CHASSIS WITH SINGLE BOGIE. SEE NOTE 4.

21,300 LBS IN EACH CONTAINER ON 40-FT CHASSIS (COUPLED WITH DOUBLE BOGIE). SEE NOTE 3.

NOTE 1: DUNNAGE INCLUDES MATERIALS, OTHER THAN COMPONENTS OF THE MECHANICAL LOAD-BRACING SYSTEM, USED TO BLOCK AND BRACE A LOAD.

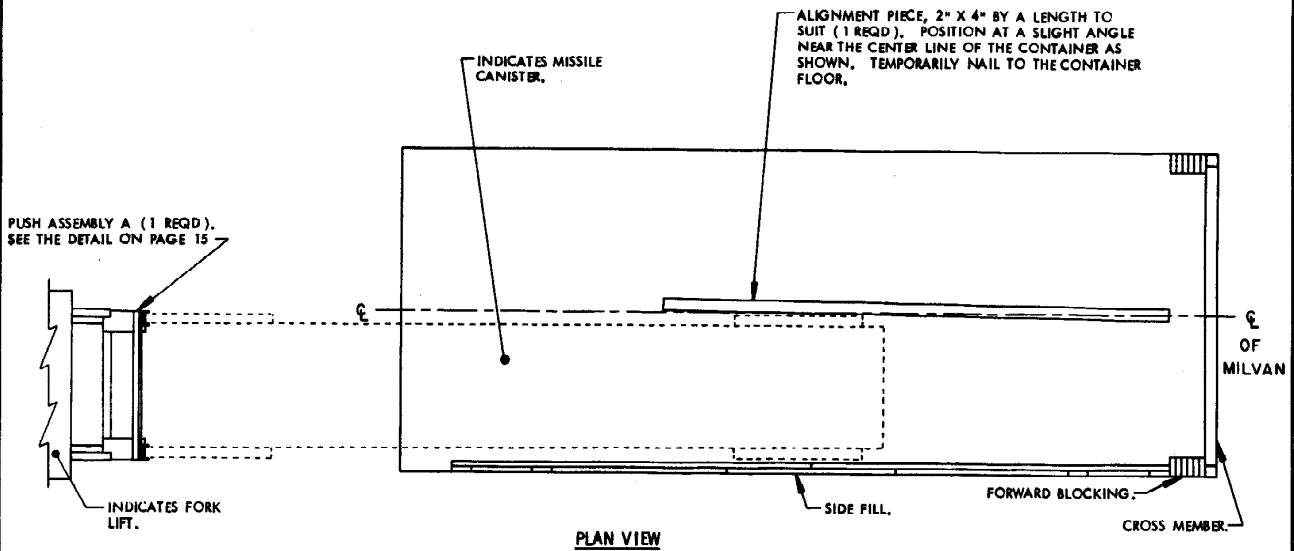
NOTE 2: ALTHOUGH THE HEAVIEST MAXIMUM LOADS ARE DELINEATED IN THE LOAD VIEWS, PROVISIONS ARE INCLUDED WITHIN THIS DRAWING SO THAT THE BASIC LOADS CAN BE ADJUSTED TO SATISFY A LESSEr QUANTITY OF LADING UNITS. ADDITIONAL INSTRUCTIONS ARE FURNISHED IN THE "SPECIAL NOTE (5) SECTION" FOR EACH LOAD VIEW.

NOTE 3: 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 MILVAN SYSTEM.

NOTE 4: BY SPECIAL AUTHORITY, IT MAY BE POSSIBLE TO MOVE HEAVIER LOADS ON SINGLE BOGIE CHASSIS WITHIN AN INSTALLATION.

UNITIZATION AND HANDLING PROCEDURES

PAGE 3



MILVAN CONTAINER LOADING PROCEDURES

1. PLACE FIVE (5) CROSS MEMBERS, FORWARD BLOCKING ASSEMBLIES, AND TWO (2) SPREADER PIECES IN THE FORWARD END OF THE MILVAN CONTAINER.
2. PLACE THE SIDE FILL ASSEMBLIES ALONG THE CONTAINER SIDEWALLS TO AID DURING CANISTER LOADING. THESE ASSEMBLIES MAY BE TOENAILED TO THE FORWARD BLOCKING ASSEMBLIES TO HOLD THEM UPRIGHT.
3. TEMPORARILY NAIL THE ALIGNMENT PIECE TO THE CONTAINER FLOOR AS SHOWN IN THE PLAN VIEW ABOVE.
4. PUSH STACK OF CANISTERS INTO POSITION UTILIZING A FORKLIFT TRUCK WITH A "PUSH ASSEMBLY A" PLACED ON EACH FORKLINE. PUSH ASSEMBLY "A" MUST BE PLACED ON THE FORKS OF THE FORKLIFT TRUCK SO THAT THE CANISTER SKID IS "CAPTURED" BY THE "C" CHANNEL OF THE ASSEMBLY. SEE NOTE ON PAGE 15.
5. REMOVE THE ALIGNMENT PIECE AND PLACE THE CENTER FILL AGAINST THE FIRST STACK OF CANISTERS. THE CENTER FILL MAY BE WIRE TIED TO THE CANISTERS TO HOLD IT UPRIGHT DURING THE LOADING OF THE SECOND STACK OF CANISTERS.
6. PUSH THE SECOND STACK OF CANISTERS INTO POSITION USING THE SAME PROCEDURES AS STATED IN STEP 4.
7. PLACE THE REAR BLOCKING IN THE CONTAINER AS PER THE KEY NUMBERS APPLICABLE TO THE NUMBER OF CANISTERS LOADED.
8. THE ABOVE STEPS MAY BE MODIFIED AS NEEDED DEPENDING ON THE NUMBER OF CANISTERS LOADED.

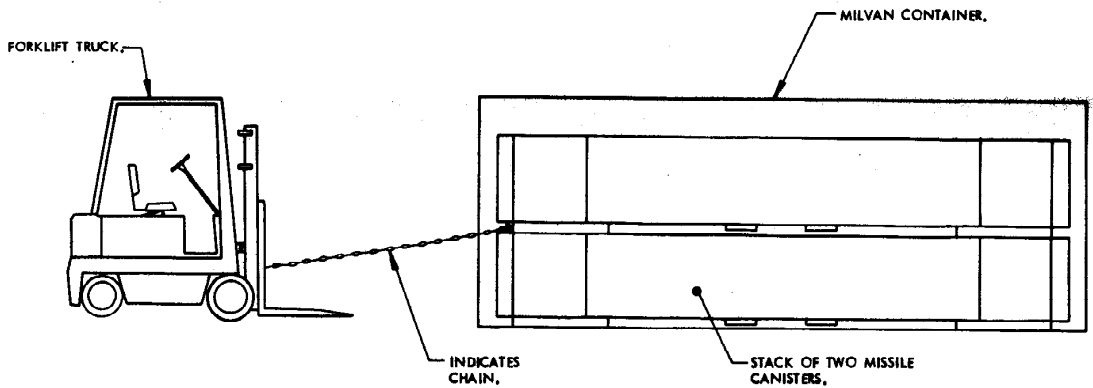


FIGURE 1

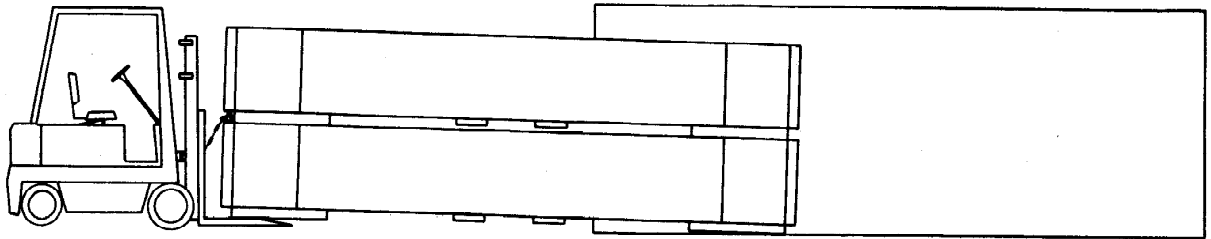


FIGURE 2

MILVAN CONTAINER UNLOADING PROCEDURES

1. REMOVE ALL REAR BLOCKING FROM THE MILVAN CONTAINER.
2. ATTACH CHAIN FROM TIEDOWN RING ON BOTTOM CANISTER TO THE FORKLIFT TRUCK AS SHOWN IN FIGURE 1 ABOVE.
3. SLOWLY PULL A STACK OF CANISTERS FROM THE MILVAN CONTAINER UNTIL APPROXIMATELY TWO-THIRDS OF THE SKID IS OUTSIDE OF THE CONTAINER.
4. DRIVE THE FORKLIFT FORWARD AND POSITION THE FORKS DIRECTLY BENEATH THE CANISTER SKIDS. IT IS RECOMMENDED THAT THE CHAIN BE LEFT ATTACHED AS A SAFETY PRECAUTION. SEE FIGURE 2 ABOVE.
5. RAISE CANISTERS SLIGHTLY AND SLOWLY PULL THEM FROM THE CONTAINER UNTIL THE TWO SKIDS ON THE OPPOSITE END ARE ALMOST OUTSIDE OF THE MILVAN CONTAINER.
6. CANISTER STACK SHOULD THEN BE LOWERED ON TO A SHORT LENGTH OF DUNNAGE SO THAT THE AFT-END SKIDS ARE SUPPORTED BY THE DUNNAGE PIECE AND THE CANISTER STACK IS APPROXIMATELY LEVEL. CANISTER STACK MAY NOW BE HANDLED BY SLINGING, FORKLIFT TRUCK OR ANY OTHER MEANS; PROVIDING THEY ARE HANDLED IN ACCORDANCE WITH APPROVED PROCEDURES. SEE FIGURE 3 BELOW.
7. REPEAT THE ABOVE PROCEDURES FOR THE REMAINING STACK OF CANISTERS.

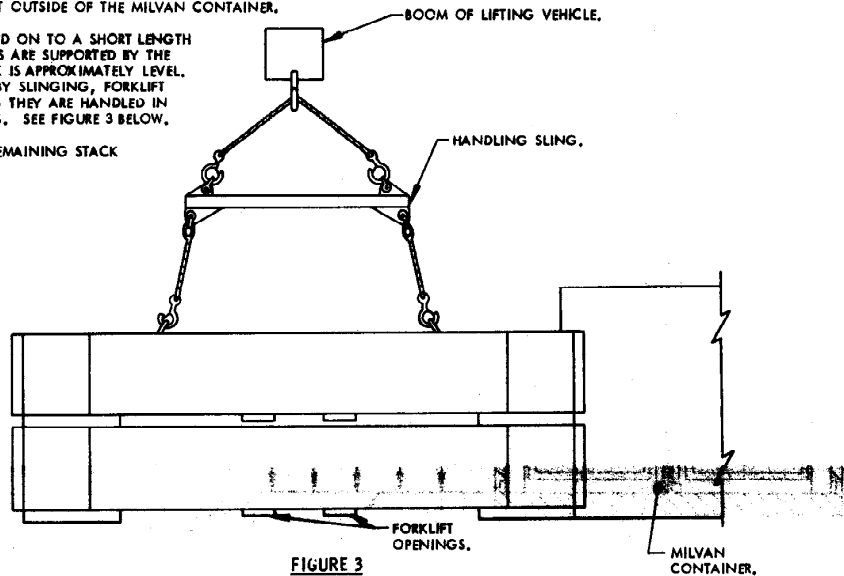
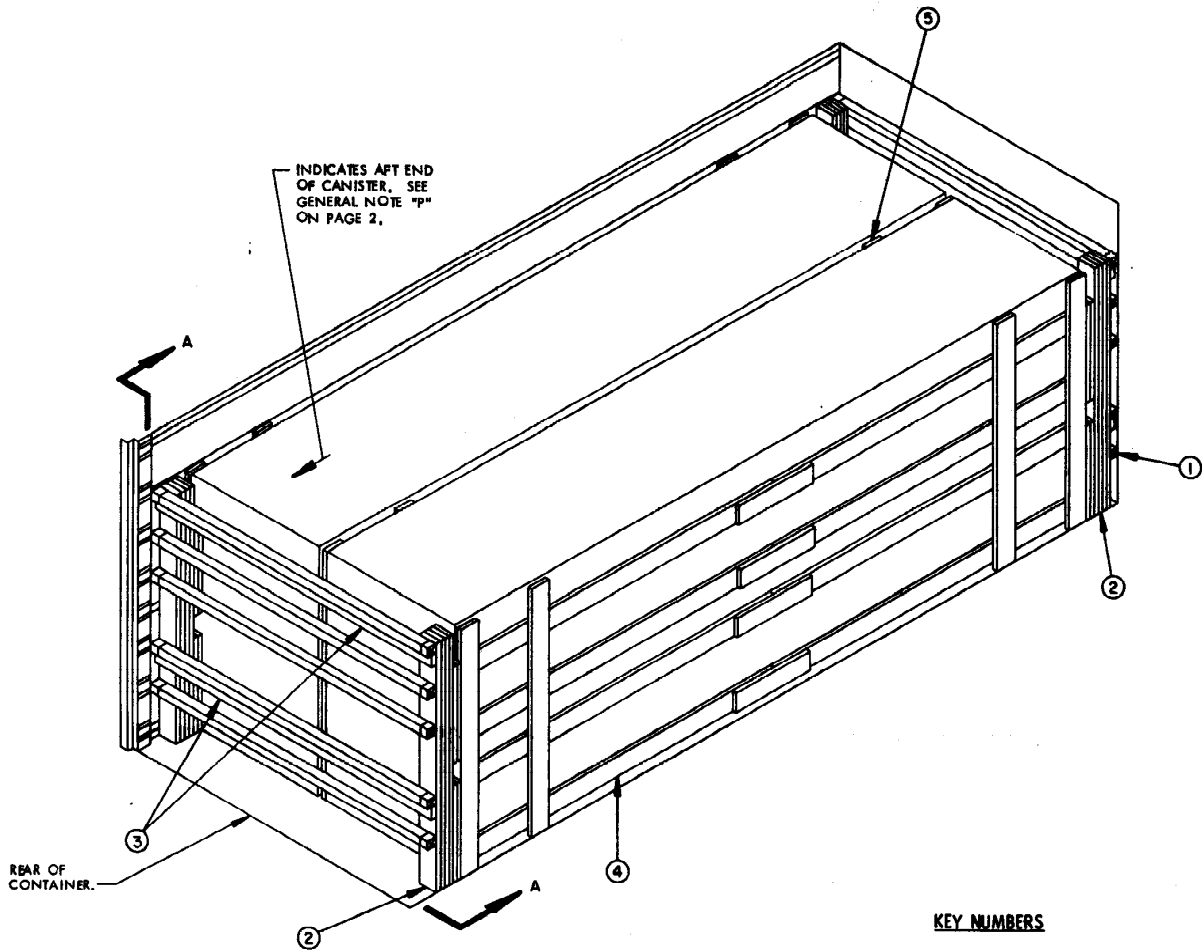


FIGURE 3

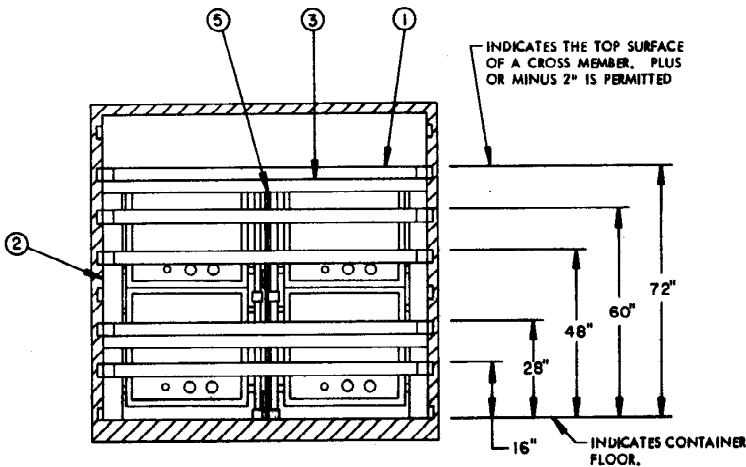
UNLOADING PROCEDURES



ISOMETRIC VIEW

KEY NUMBERS

- ① CROSS MEMBER (10 REQD). POSITION AT THE HEIGHTS SPECIFIED IN THE "SECTION A-A" VIEW. SEE GENERAL NOTE "G" ON PAGE 2.
- ② FORWARD/REAR BLOCKING (4 REQD). SEE THE "FORWARD/REAR BLOCKING ASSEMBLY A" DETAIL ON PAGE 7. SEE GENERAL NOTE "K" ON PAGE 2.
- ③ SPREADER, 2" X 4" BY CONTAINER WIDTH MINUS 1/2" (4 REQD). PREPOSITION SO AS TO CONTACT THE BOTTOM OF THE CROSS MEMBERS AT THE 28" AND 72" LEVEL. NAIL TO PIECES MARKED ② W/3-10d NAILS AT EACH END.
- ④ SIDE FILL (2 REQD). SEE THE "SIDE FILL" DETAIL ON PAGE 13. SEE SPECIAL NOTE 3 ON PAGE 7.
- ⑤ CENTER FILL (1 REQD). SEE THE "CENTER FILL" DETAIL ON PAGE 12. SEE SPECIAL NOTE 3 ON PAGE 7.



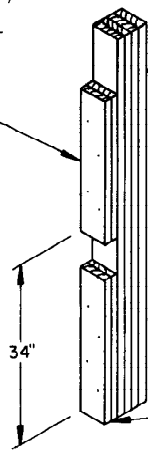
SECTION A-A

FOUR-CANISTER LOAD

SPECIAL NOTES:

1. THE LOAD AS SHOWN ON PAGE 6 DELINEATES A FOUR-CANISTER LOAD IN A MILVAN CONTAINER.
2. PRIOR TO LOADING THE MISSILE CANISTERS INTO THE MILVAN CONTAINER, SEE THE "UNITIZATION AND HANDLING PROCEDURES" ON PAGE 3.
3. IF DESIRED, THE FORWARD END OF THE TWO SIDE FILL ASSEMBLIES CAN BE TOENAILED TO THE FORWARD BLOCKING ASSEMBLY TO HOLD THEM UPRIGHT AGAINST THE SIDEWALLS OF THE MILVAN CONTAINER DURING LOADING OPERATIONS. ALSO, IF DESIRED, THE CENTER FILL ASSEMBLY CAN BE WIRE TIED TO THE CANISTER STACK THAT IS ALREADY LOADED TO HOLD IT UPRIGHT DURING LOADING OF THE SECOND STACK. **NOTICE:** THE CENTER FILL ASSEMBLY IS TO BE POSITIONED WITH THE VERTICAL PIECES, SPICE PIECES, AND RETENTION BLOCKS AGAINST THE CANISTERS THAT ARE ALREADY LOADED IN THE CONTAINER.
4. IF THE VOID SPACE BETWEEN THE CANISTERS AND THE REARMOST CROSSMEMBERS IS GREATER THAN THE THICKNESS OF THE REAR BLOCKING ASSEMBLY, ADDITIONAL LAMINATIONS OF VERTICAL PIECES MAY BE ADDED TO THE REAR BLOCKING ASSEMBLY, TO PROVIDE FOR A "SNUG" FIT; OR PIECES OF FILL MATERIAL MAY BE ADDED TO THE CROSSMEMBERS TO FILL THE VOID BETWEEN THE CROSSMEMBERS AND THE REAR BLOCKING ASSEMBLY. SEE THE "FILL DETAIL A" ON PAGE 14.

TOP LOAD BEARING PIECE, 2" X 6" X 27-1/2" (DOUBLED) (1 REQD). NAIL THE FIRST PIECE TO THE VERTICAL PIECE W/4-10d NAILS, NAIL THE SECOND PIECE TO THE FIRST IN A LIKE MANNER.



VERTICAL PIECE, 2" X 6" X 72" (4 REQD). NAIL THE SECOND PIECE TO THE FIRST W/6-10d NAILS. LAMINATE EACH ADDITIONAL PIECE IN A LIKE MANNER. SEE SPECIAL NOTE 4 AT RIGHT.

BOTTOM LOAD BEARING PIECE, 2" X 6" X 27" (DOUBLED) (1 REQD). NAIL THE FIRST PIECE TO THE VERTICAL PIECE W/4-10d NAILS. NAIL THE SECOND PIECE TO THE FIRST IN A LIKE MANNER.

FORWARD/REAR BLOCKING ASSEMBLY A

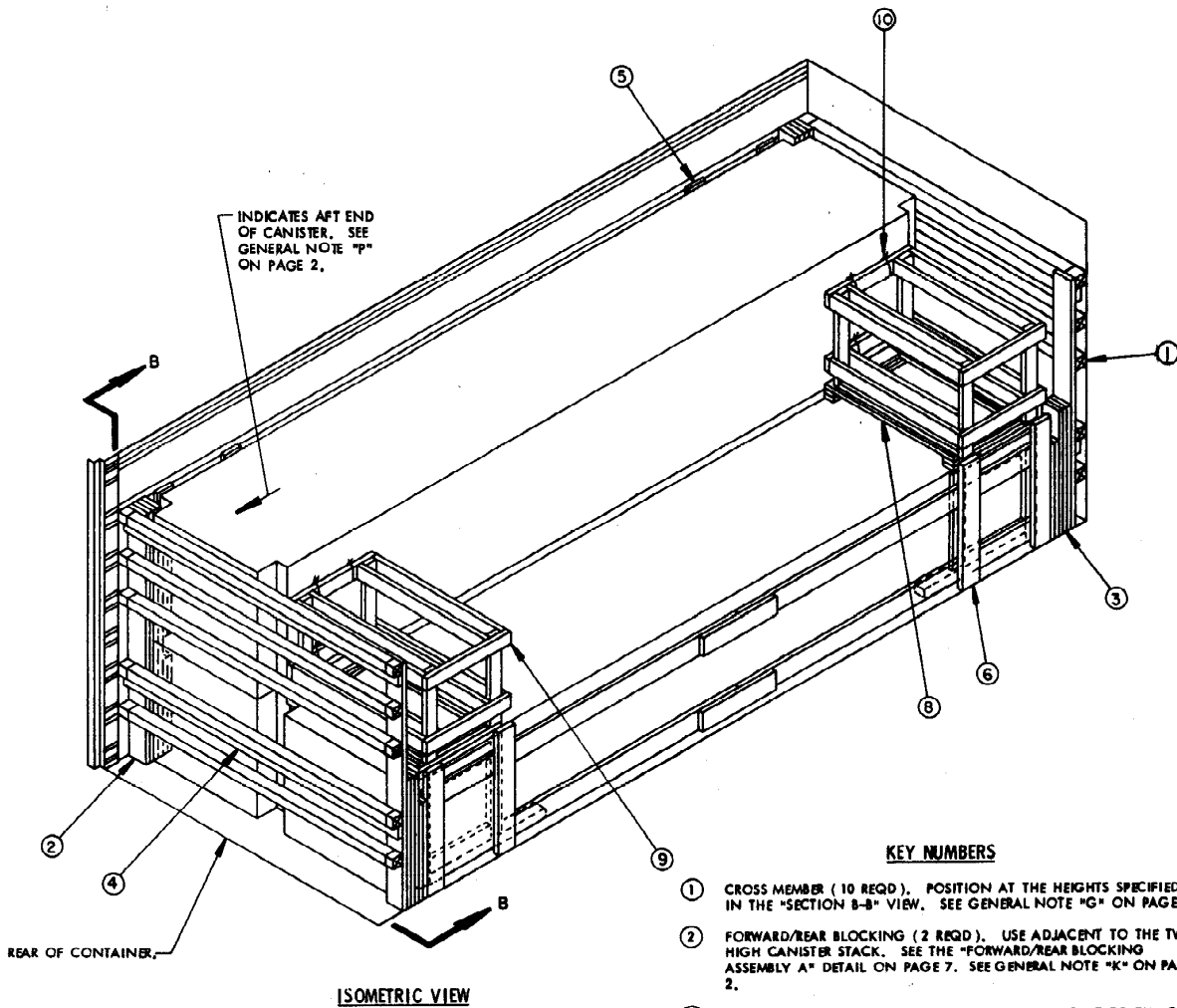
BILL OF MATERIAL

| LUMBER | LINEAR FEET | BOARD FEET |
|-------------------|-------------|------------|
| 1" X 6" | 132 | 66 |
| 2" X 4" | 31 | 21 |
| 2" X 6" | 330 | 330 |
| NAILS | NO. REQD | POUNDS |
| 6d (2") | 176 | 1 |
| 10d (3") | 224 | 3-1/2 |
| 16d (3-1/2") | 8 | 1/2 |
| CROSS MEMBER----- | | 10 REQD |

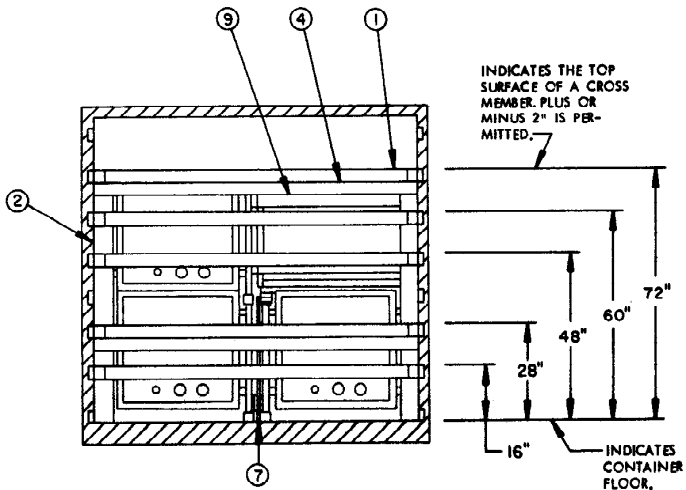
LOAD AS SHOWN

| ITEM | QUANTITY | WEIGHT (APPROX) |
|------------------------|----------|-------------------|
| MISSILE CANISTER ----- | 4----- | 15,000 LBS |
| DUNNAGE----- | | 840 LBS |
| MILVAN CONTAINER----- | | 5,700 LBS |

TOTAL GROSS WEIGHT----- 21,540 LBS



ISOMETRIC VIEW



SECTION B-B

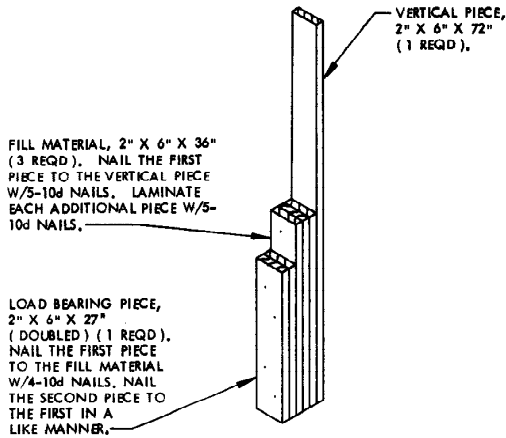
THREE-CANISTER LOAD

KEY NUMBERS

- ① CROSS MEMBER (10 REQD). POSITION AT THE HEIGHTS SPECIFIED IN THE "SECTION B-B" VIEW. SEE GENERAL NOTE "G" ON PAGE 2.
- ② FORWARD/REAR BLOCKING (2 REQD). USE ADJACENT TO THE TWO-HIGH CANISTER STACK. SEE THE "FORWARD/REAR BLOCKING ASSEMBLY A" DETAIL ON PAGE 7. SEE GENERAL NOTE "K" ON PAGE 2.
- ③ FORWARD/REAR BLOCKING (2 REQD). USE ADJACENT TO THE ONE CANISTER STACK. SEE THE "FORWARD/REAR BLOCKING ASSEMBLY B" DETAIL ON PAGE 9.
- ④ SPREADER, 2" X 4" BY CONTAINER WIDTH MINUS 1/2" (4 REQD). PREPOSITION SO AS TO CONTACT THE BOTTOM OF THE CROSS MEMBERS AT THE 28" AND 72" LEVEL. NAIL TO PIECES MARKED ② AND ③ W/3-10d NAILS AT EACH END.
- ⑤ SIDE FILL (FOR TWO-HIGH LOAD) (1 REQD). SEE THE "SIDE FILL" DETAIL ON PAGE 13. SEE SPECIAL NOTE 3 ON PAGE 9.
- ⑥ SIDE FILL (FOR ONE-HIGH LOAD) (1 REQD). SEE THE "SIDE FILL" DETAIL ON PAGE 13. SEE SPECIAL NOTE 3 ON PAGE 9.
- ⑦ CENTER FILL (FOR ONE-HIGH LOAD) (1 REQD). SEE THE "CENTER FILL" DETAIL ON PAGE 12. SEE SPECIAL NOTE 3 ON PAGE 9.
- ⑧ SPACER ASSEMBLY (2 REQD). SEE THE "SPACER ASSEMBLY" DETAIL ON PAGE 14. POSITION AS SHOWN SO AS TO REST ON THE SHOCK ISOLATION FRAMES.
- ⑨ FILLER ASSEMBLY (2 REQD). SEE THE "FILLER ASSEMBLY A" DETAIL ON PAGE 13. POSITION ON TOP OF AND NAIL TO PIECES MARKED ⑧ W/6-10d NAILS. WIRE TIE TO THE SHOCK ISOLATION FRAMES. SEE KEY NUMBER ⑩.
- ⑩ TIE WIRE, NO. 14 GAGE BLACK ANNEALED WIRE 24" LONG (8 REQD). WIRE TIE FILLER ASSEMBLY TO THE ISOLATION FRAME.

SPECIAL NOTES:

1. THE LOAD AS SHOWN ON PAGE 8 DELINEATES A THREE-CANISTER LOAD IN A MILVAN CONTAINER.
2. PRIOR TO LOADING THE MISSILE CANISTERS INTO THE MILVAN CONTAINER, SEE THE "UNITIZATION AND HANDLING PROCEDURES" ON PAGE 3.
3. IF DESIRED, THE FORWARD END OF THE TWO SIDE FILL ASSEMBLIES CAN BE TOENAILED TO THE FORWARD BLOCKING ASSEMBLY TO HOLD THEM UPRIGHT AGAINST THE SIDEWALL OF THE MILVAN CONTAINER DURING LOADING OPERATIONS. ALSO, IF DESIRED, THE CENTER FILL ASSEMBLY CAN BE WIRE TIED TO THE CANISTER THAT IS ALREADY LOADED TO HOLD IT UPRIGHT DURING THE LOADING OF THE STACK OF TWO CANISTERS. **NOTICE:** THE CENTER FILL ASSEMBLY IS TO BE POSITIONED WITH THE VERTICAL PICES, SPLICE PICES, AND RETENTION BLOCKS AGAINST THE CANISTER THAT IS ALREADY LOADED INTO THE CONTAINER.

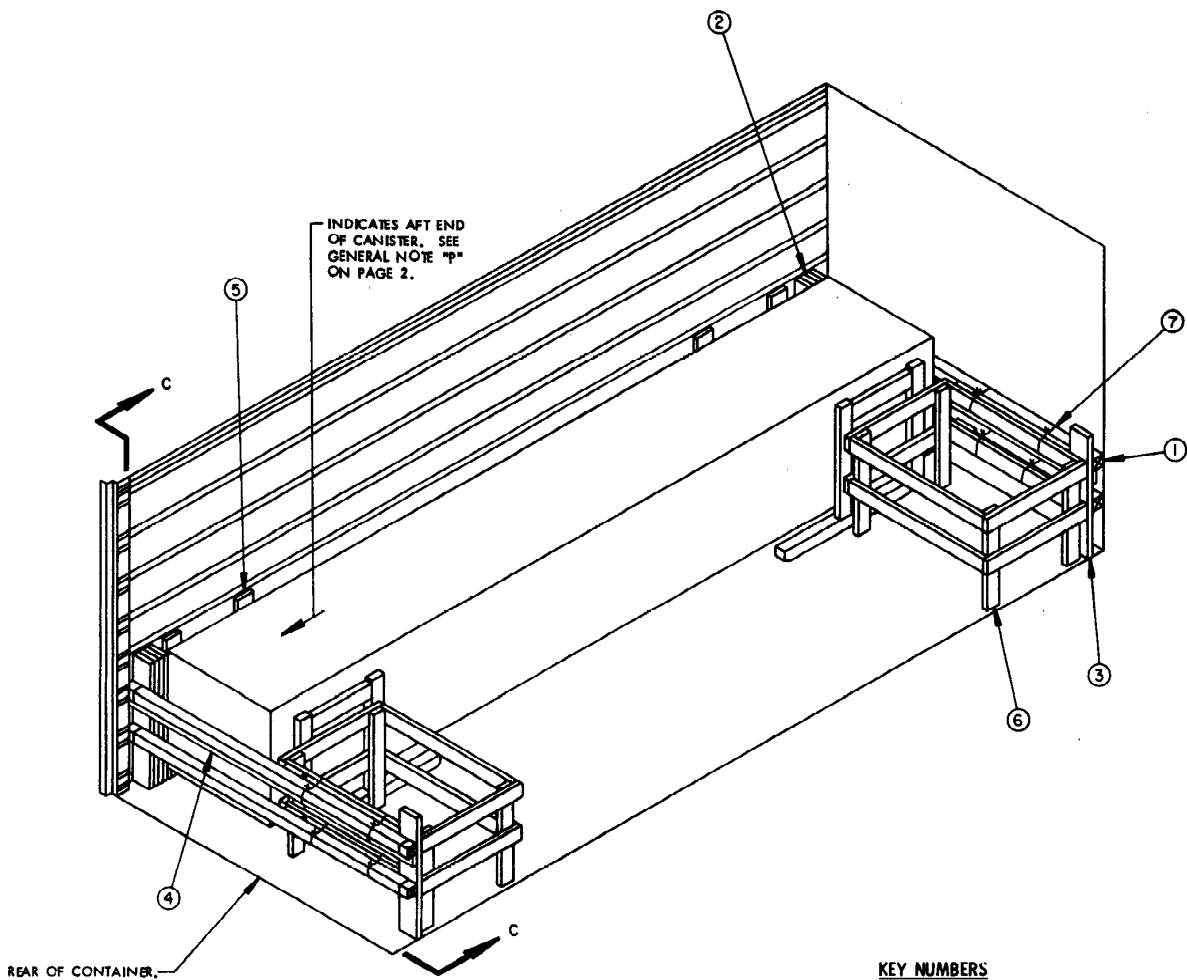


FORWARD/REAR BLOCKING ASSEMBLY B

| BILL OF MATERIAL | | |
|-------------------|-------------|------------|
| LUMBER | LINEAR FEET | BOARD FEET |
| 1" X 4" | 6 | 2 |
| 1" X 6" | 78 | 39 |
| 2" X 4" | 115 | 77 |
| 2" X 6" | 290 | 290 |
| NAILS | NO. REQD | POUNDS |
| 6d (2") | 186 | 3/4 |
| 10d (3") | 360 | 5-3/4 |
| 16d (3-1/2") | 8 | 1/2 |
| WIRE, NO. 14 GAGE | 16' REQD | NIL |
| CROSS MEMBER | | 10 REQD |

LOAD AS SHOWN

| ITEM | QUANTITY | WEIGHT (APPROX) |
|--------------------|----------|-------------------|
| MISSILE CANISTER | 3 | 11,890 LBS |
| DUNNAGE | | 794 LBS |
| MILVAN CONTAINER | | 5,700 LBS |
| TOTAL GROSS WEIGHT | | 17,654 LBS |

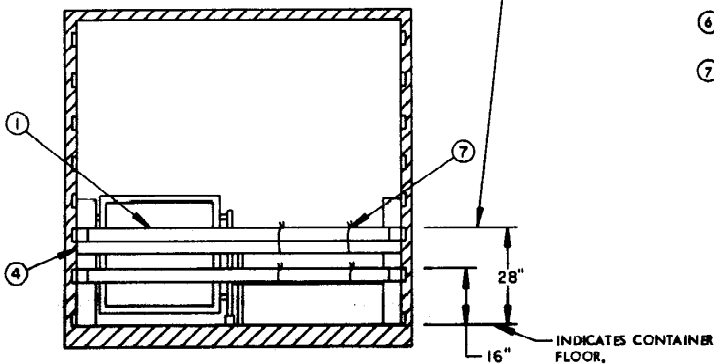


ISOMETRIC VIEW

KEY NUMBERS

- ① CROSS MEMBER (4 REQD). POSITION AT THE HEIGHTS SPECIFIED IN THE "SECTION C-C" VIEW. SEE GENERAL NOTE "G" ON PAGE 2.
- ② FORWARD/REAR BLOCKING (2 REQD). USE ADJACENT TO THE MISSILE CANISTER. SEE THE "FORWARD/REAR BLOCKING ASSEMBLY C" DETAIL ON PAGE 11. SEE GENERAL NOTE "K" ON PAGE 2.
- ③ SPACER, 2" X 6" X 36" (2 REQD).
- ④ SPREADER, 2" X 4" BY CONTAINER WIDTH MINUS 1/2" (2 REQD). POSITION SO AS TO CONTACT THE BOTTOM OF THE CROSS MEMBERS AT THE 28" LEVEL. NAIL TO PIECES MARKED ② AND ③ W/3-10# NAILS AT EACH END.
- ⑤ SIDE FILL (FOR ONE-HIGH LOAD) (1 REQD). SEE THE "SIDE FILL" DETAIL ON PAGE 13. SEE SPECIAL NOTE 2 ON PAGE 11.
- ⑥ FILLER ASSEMBLY (2 REQD). SEE THE "FILLER ASSEMBLY B" DETAIL ON PAGE 13. WIRE TIE TO CROSS MEMBERS. SEE KEY NUMBER ⑦.
- ⑦ TIE WIRE, NO. 14 GAGE BLACK ANNEALED WIRE 24" LONG (8 REQD). WIRE TIE FILLER ASSEMBLY TO CROSS MEMBERS AS SHOWN.

INDICATES THE TOP SURFACE OF A CROSS MEMBER. PLUS OR MINUS 2" IS PERMITTED.

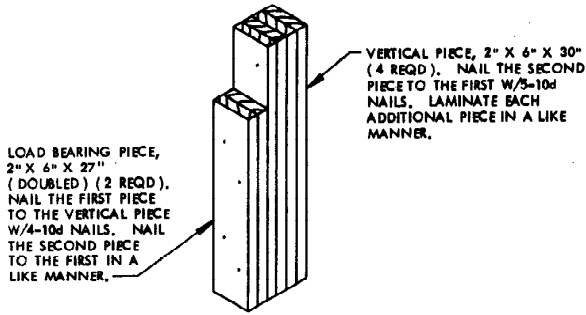


SECTION C-C

ONE-CANISTER LOAD

SPECIAL NOTES:

1. THE LOAD AS SHOWN ON PAGE 10 DELINEATES A ONE-CANISTER LOAD IN A MILVAN CONTAINER.
2. IF DESIRED, THE FORWARD END OF THE SIDE-FILL ASSEMBLY CAN BE TONNAILED TO THE FORWARD BLOCKING ASSEMBLY C TO HOLD IT UPRIGHT AGAINST THE SIDEWALL OF THE MILVAN CONTAINER DURING LOADING OPERATIONS.

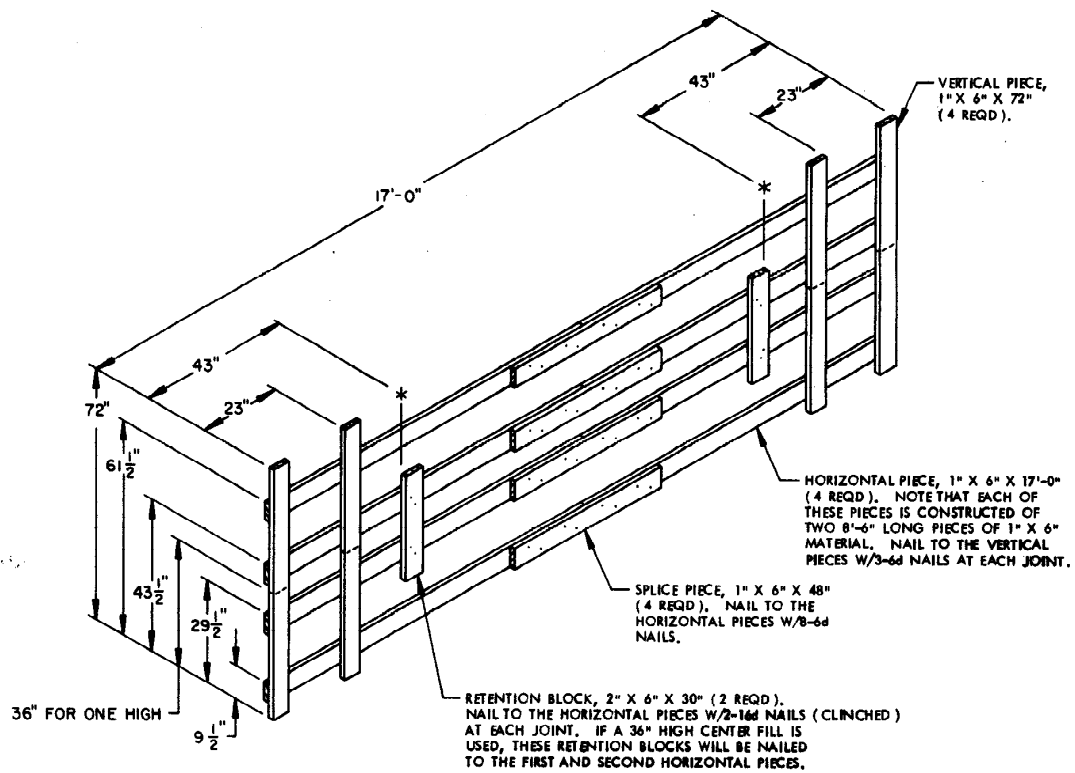


FORWARD/REAR BLOCKING ASSEMBLY C

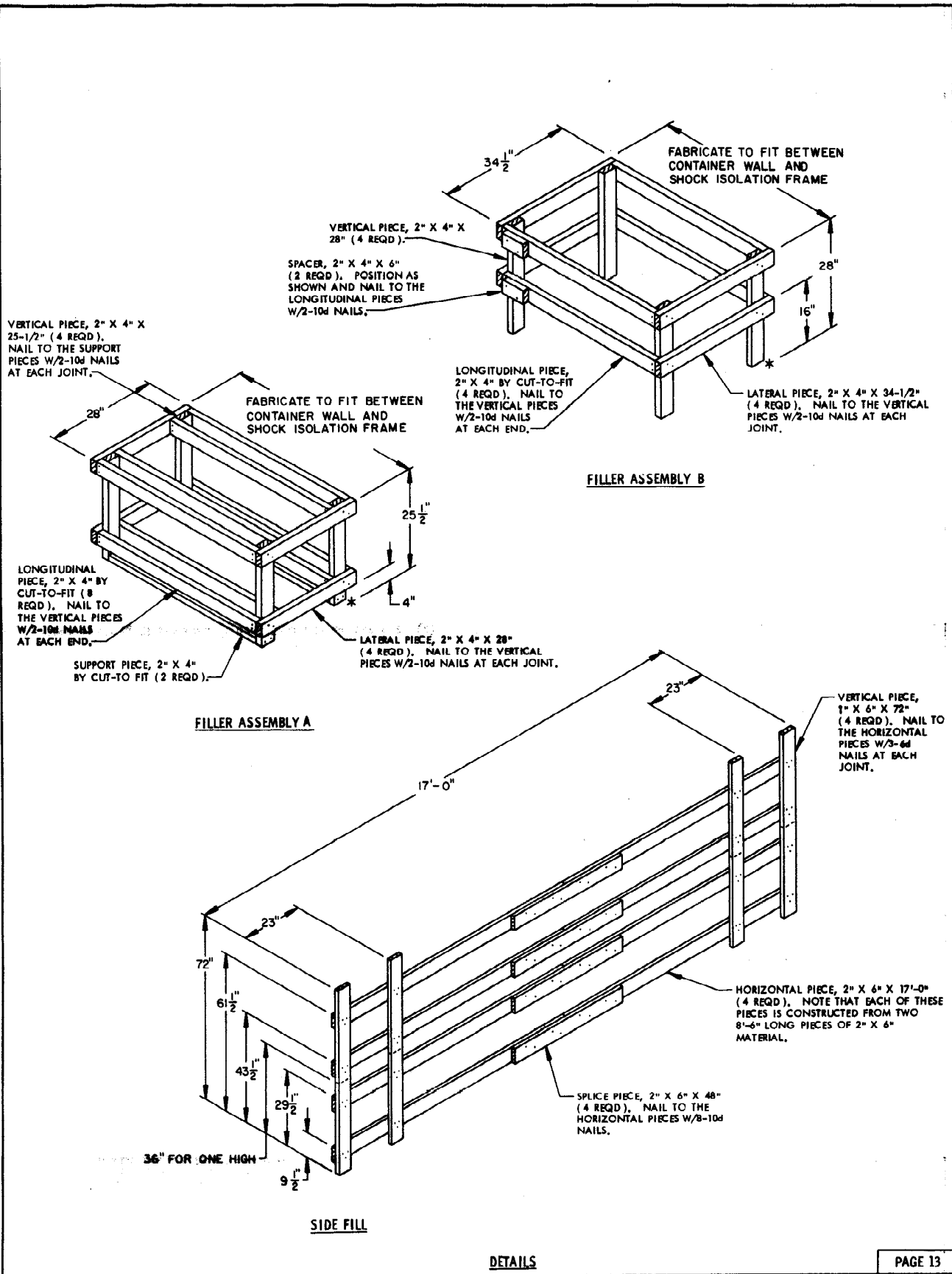
| BILL OF MATERIAL | | |
|-------------------|-------------|------------|
| LUMBER | LINEAR FEET | BOARD FEET |
| 1" X 6" | 12 | 6 |
| 2" X 4" | 52 | 35 |
| 2" X 6" | 77 | 77 |
| NAILS | NO. REQD | POUNDS |
| 6d (2") | 24 | NIL |
| 10d (3") | 136 | 2-1/2 |
| WIRE, NO. 14 GAGE | 16' REQD | NIL |
| CROSS MEMBER | | 4 REQD |

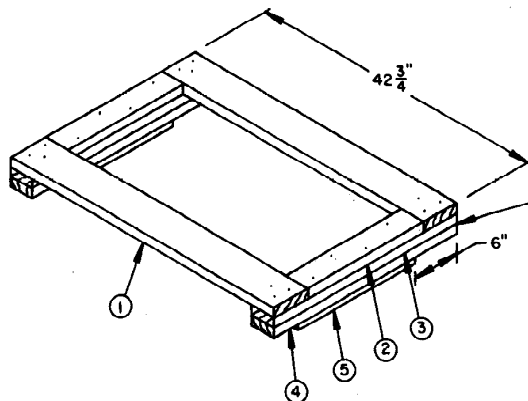
LOAD AS SHOWN

| ITEM | QUANTITY | WEIGHT (APPROX) |
|---------------------------|----------|------------------|
| MISSILE CANISTER | 1 | 3,750 LBS |
| DUNNAGE | | 239 LBS |
| MILVAN CONTAINER | | 5,700 LBS |
| TOTAL GROSS WEIGHT | | 9,689 LBS |



CENTER FILL



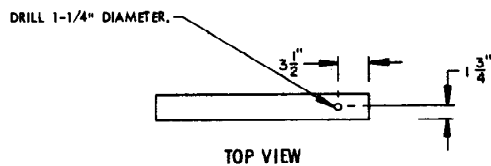


FABRICATE ASSEMBLY SO THAT PIECES MARKED ③ AND ④ ARE POSITIONED WITH THE HOLES AT THIS END OF THE ASSEMBLY. HOLES MUST BE ALIGNED SO THAT THEY WILL ACCEPT THE LOCATOR PINS OF THE SHOCK ISOLATION FRAMES.

SPACER ASSEMBLY

KEY NUMBERS

- ① 2" X 6" X 42-3/4" (2 REQD), NAIL TO PIECE MARKED ③ W/8-10d NAILS AT EACH END.
- ② 2" X 4" X 19" (2 REQD), NAIL TO PIECE MARKED ③ W/4-10d NAILS.
- ③ 2" X 4" X 30" (2 REQD), DRILL A 1-1/4" DIAMETER HOLE AS SHOWN BY THE DETAIL AT THE LEFT.
- ④ 2" X 4" X 30" (2 REQD), DRILL A 1-1/4" DIAMETER HOLE AS SHOWN BY THE DETAIL AT THE LEFT. NAIL TO PIECE MARKED ③ W/8-10d NAILS.
- ⑤ 1" X 4" X 19" (2 REQD), NAIL TO PIECE MARKED ④ W/8-6d NAILS.



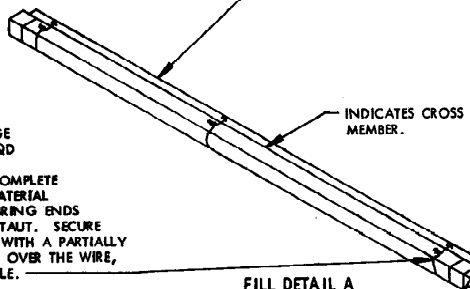
TOP VIEW



SIDE VIEW

DETAIL: PIECE ③ AND ④

FILL MATERIAL, 1" X 4" OR 2" X 4" MATERIAL BY CONTAINER WIDTH MINUS 1" (AS REQD).

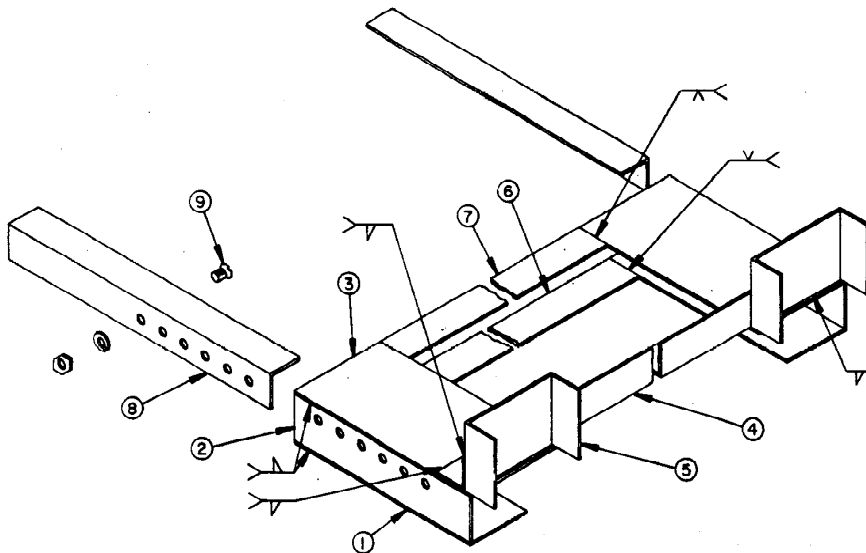


FILL DETAIL A

TIE WIRE, NO. 14 GAGE WIRE 18" LONG (3 REQD PER CROSS MEMBER). INSTALL TO FORM A COMPLETE LOOP AROUND FILL MATERIAL AND CROSS MEMBER, BRING ENDS TOGETHER AND TWIST TIGHT. SECURE TO THE FILL MATERIAL WITH A PARTIALLY DRIVEN 10d NAIL BENT OVER THE WIRE, OR WITH A STRAP STAPLE.

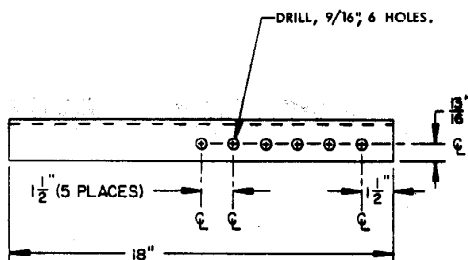
THIS DETAIL DEPICTS METHOD OF POSITIONING FILL MATERIAL BETWEEN LOAD-BRACING CROSS MEMBER AND LADING WHEN THE VOID BETWEEN THE TWO IS GREATER THAN ONE INCH (1") FOR LONGITUDINAL BRACING. SEE SPECIAL NOTE 4 ON PAGE 7.

DETAILS



ISOMETRIC VIEW

PUSH ASSEMBLY A

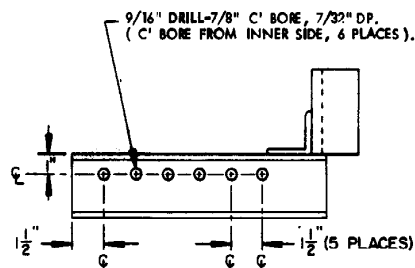


PIECE 8

KEY NUMBERS

- ① BOTTOM, 4" X 12" X 3/16" STEEL (2 REQD). WELD TO PIECE ②.
- ② SIDE, 2-5/8" X 12" X 3/16" STEEL (2 REQD). DRILL AND COUNTERSINK EACH PIECE W/6-9/16" DIA HOLES AS SHOWN.
- ③ TOP, 6" X 12" X 3/16" STEEL (2 REQD). WELD TO PIECE ②.
- ④ BRACE, ANGLE, 2" X 2" X 3/16" X 43-1/2" LONG. POSITION 3/4" BACK FROM END OF PIECES MARKED ③ AND WELD TO PIECES MARKED ③.
- ⑤ POCKET, "C" CHANNEL, C-6" X 13.0 X 4" LONG (2 REQD). POSITION AS SHOWN AND WELD TO ③ AND ④.
- ⑥ BOTTOM SPACER, 2" X 35-1/2" X 3/16" (1 REQD). WELD TO PIECES MARKED ① AT EACH END.
- ⑦ TOP SPACER, 2" X 31-1/2" X 3/16" (1 REQD). WELD TO PIECES MARKED ③ AT EACH END.
- ⑧ EXTENSION, ANGLE, 2" X 2" X 3/16" X 18" LONG (2 REQD, IF USED). DRILL EACH PIECE W/6-9/16" DIA HOLES AS SHOWN. SEE NOTE BELOW.
- ⑨ MACHINE SCREW, 1/2" X 1" LONG, FLAT HEAD, WITH LOCK WASHER AND NUT (4 REQD).

NOTE: PUSH ASSEMBLY A HAS BEEN DESIGNED SO AS TO BE ADJUSTABLE DEPENDING ON THE LENGTH OF THE FORKLIFT TINES. PIECES MARKED ⑧ SHALL BE BOLTED TO PIECES MARKED ② WITH TWO MACHINE SCREWS ON EACH SIDE SO AS TO ALLOW APPROXIMATELY 24" OF THE FORKLIFT TINES TO EXTEND PAST THE END OF THE PUSH ASSEMBLY. PIECES MARKED ⑧ MAY BE OF A LONGER OR SHORTER DIMENSION THAN THAT SPECIFIED IN THE KEY NUMBERS ABOVE, PROVIDED THAT THE FORKLIFT TINES EXTEND BEYOND THE END APPROXIMATELY 24", AS SPECIFIED. SEE THE SPECIAL NOTES ON PAGE 16 FOR GUIDANCE.

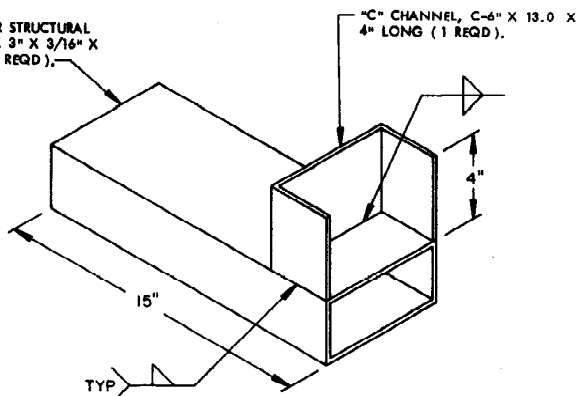


SIDE VIEW

BILL OF MATERIAL

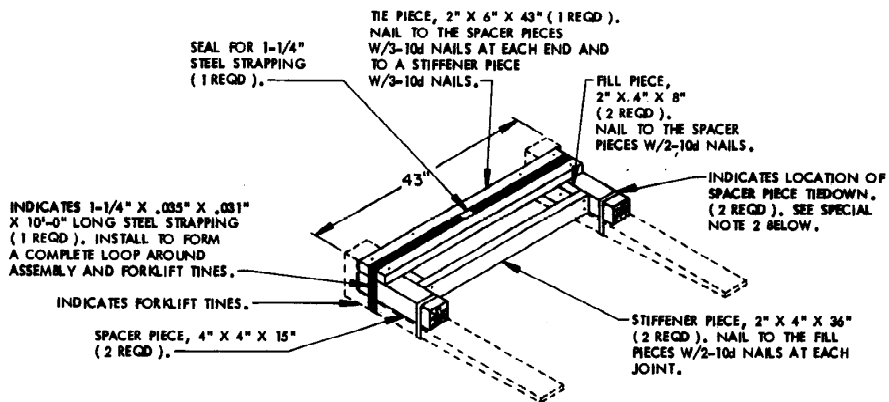
| KEY NO. | NOMENCLATURE | QTY REQD |
|---------|---|----------|
| 1 | BOTTOM, STEEL, SHEET, HOT ROLLED, LOW CARBON, COMMERCIAL QUALITY, 3/16", PER ASTM A569, FSC 9515 | 2 |
| 2 | SIDE STEEL, HOT ROLLED, LOW CARBON, COMMERCIAL QUALITY, 3/16", PER ASTM A569, FSC 9515 | 2 |
| 3 | TOP, STEEL, HOT ROLLED, LOW CARBON, COMMERCIAL QUALITY, 3/16", PER ASTM A569, FSC 9515 | 2 |
| 4 | BRACE, STEEL, ANGLE, BAR SIZE, 2 INCH X 2 INCH X 3/16 INCH, PER ASTM A36, FSC 9520 | 1 |
| 5 | POCKET, STEEL CHANNEL, STRUCTURAL, 6 INCH @ 13.0 LBS/FT PER ASTM A36, FSC 9520 | 2 |
| 6 | TOP SPACER, STEEL, SHEET, HOT ROLLED, LOW CARBON, COMMERCIAL QUALITY, 3/16", PER ASTM A569, FSC 9515 | 1 |
| 7 | LOWER SPACER, STEEL, SHEET, HOT ROLLED, LOW CARBON, COMMERCIAL QUALITY, 3/16" PER ASTM A569, FSC 9515 | 1 |
| 8 | EXTENSION, STEEL, ANGLE, BAR SIZE, 2 INCH X 2 INCH X 3/16 INCH, PER ASTM A36, FSC 9520 | 1 |
| 9 | MACHINE SCREW, 82° FLAT COUNTERSUNK HEAD, CROSS RECESSED, 1/2-13 UNC-2A X 1 INCH LONG, MS 35190-342, FSC 5805 | 4 |
| | WASHER, LOCK, 1/2 INCH NOMINAL, MS 35330-48, FSC 5910 | 4 |
| | NUT, PLAIN, HEXAGON, 1/2-13 UNC-2B, FSC 5310 | 4 |

RECTANGULAR STRUCTURAL TUBING, 6" X 3" X 3/16" X 15" LONG (1 REQD.).



PUSH ASSEMBLY B

TWO OF THESE ASSEMBLIES MUST BE PLACED ON THE TINES (ONE PER TINE) OF THE FORKLIFT TRUCK WHEN USED TO PUSH THE CANISTERS INTO THE MILVAN CONTAINER. SEE SPECIAL NOTE 1 BELOW.



PUSH ASSEMBLY C

THIS ASSEMBLY IS SHOWN AS AN ALTERNATIVE TO PUSH ASSEMBLIES A AND B AND MAY BE USED IF THE MATERIALS FOR EITHER OF THE OTHER ASSEMBLIES ARE NOT AVAILABLE. SEE SPECIAL NOTE 2 AT LEFT.

SPECIAL NOTES:

1. PUSH ASSEMBLIES "A" AND "B", AS DETAILED ON PAGE 15 AND ABOVE, ARE THE PREFERRED HANDLING AIDS TO BE USED IN THE LOADING OF MISSILE CANISTERS INTO A MILVAN CONTAINER. PUSH ASSEMBLY "A" HAS BEEN DESIGNED TO BE COMPATIBLE WITH MOST FORKLIFT TRUCKS COMMONLY USED FOR CANISTER HANDLING. PUSH ASSEMBLY "B" IS DESIGNED FOR USE WITH A FORKLIFT TRUCK HAVING A TINE LENGTH OF 40" AND A TINE WIDTH OF 4" TO 5-1/2".
2. PUSH ASSEMBLY "C" IS ALSO DESIGNED FOR USE WITH A FORKLIFT TRUCK HAVING 40" LONG TINES. THIS ASSEMBLY, HOWEVER, WILL NOT BE USED UNLESS MATERIAL TO CONSTRUCT ASSEMBLIES "A" AND "B" IS UNAVAILABLE OR THESE PREFERRED ASSEMBLIES CANNOT BE CONSTRUCTED IN TIME TO SUPPORT CANISTER OUTLOADING OPERATIONS. EXTREME CAUTION MUST BE EXERCISED WHEN USING PUSH ASSEMBLY "C" TO AVOID CAUSING DAMAGE TO THE CANISTERS. **NOTE:** PRIOR TO THE USE OF ASSEMBLY "C" FOR CANISTER LOADING OPERATIONS, THE ASSEMBLY MUST BE SECURED TO THE FORKLIFT TRUCK TINES IN THREE LOCATIONS AS DEPICTED IN THE DETAIL AT RIGHT. SECUREMENT MAY BE ACCOMPLISHED BY UTILIZING STEEL STRAPPING, WEB STRAPPING, PLASTIC STRAPPING, WIRE, ETC., PROVIDED THAT THE MOVEMENT OF THE ASSEMBLY DURING CANISTER LOADING IS MINIMAL.
3. DURING FABRICATION OF ALL PUSH ASSEMBLIES DETAILED HEREIN, STRICT DIMENSIONAL ADHERENCE MUST BE MAINTAINED FOR ALL REQUIRED ASSEMBLY PIECES TO ENSURE PROPER CLEARANCE BETWEEN CANISTER ENDS AND FORKLIFT TRUCK MASTS, ETC.