

STORAGE IN 100' LONG BY 50' WIDE
 RECTANGULAR MAGAZINES OF
 PROPELLANTS AND COMPLETE ROUNDS
 PACKED IN METAL CONTAINERS, AND
 BULK POWDER, TNT, ETC. PACKED IN
 WOOD, FIBER, OR METAL CONTAINERS

REVISIONS				DRAFTSMAN PJB/dh	PROJ ENG RWF/WRF	INSTR (R1)
				CHECKER SRS/PJB	LOG ENGRG OFFICE W.F. Ernst	INSTR (R2)
1	MAY 86	WRF/WFE	J. Martin	APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND		
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						3M1000

DO NOT SCALE

GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1, AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE STORAGE PROCEDURES DEPICTED WITHIN THIS DOCUMENT ARE APPLICABLE FOR STORAGE OF PROPELLANTS AND COMPLETE ROUNDS, BULK POWDER, ETC., IN 100'-8" LONG BY 50'-0" WIDE RECTANGULAR MAGAZINES.
- C. THE STORAGE PROCEDURES DEPICTED HEREIN MAY ALSO BE UTILIZED TO STORE EXPLOSIVES IN CONTAINERS IN OTHER TYPES OF APPROVED MAGAZINES. MINOR ADJUSTMENTS MAY BE MADE TO FACILITATE STORAGE IN OTHER TYPES OF MAGAZINES, HOWEVER, THE BASIC PRINCIPLES AS DEPICTED HEREIN WILL BE COMPLIED WITH.
- D. WHEN USING BATTERY POWERED MHE IN RECTANGULAR MAGAZINES CONTAINING BULK PROPELLANT POWDER, THE MHE SHOULD BE TYPE EX RATED AND APPROPRIATELY LABELED FOR USE IN CLASS I, GROUP D HAZARDOUS LOCATIONS. IF BATTERY POWERED MHE OTHER THAN TYPE EX RATED IS TO BE USED, THE FOLLOWING CRITERIA WILL APPLY:
- (1) VAPOR CONCENTRATION TESTS SHALL BE MADE IN REMOTE SECTIONS OF THE MAGAZINE BY COMPETENT PERSONNEL. TESTS SHOULD BE MADE AS SOON AS THE MAGAZINE DOOR IS OPENED AND AT INTERVALS NOT TO EXCEED ONE (1) HOUR.
 - (2) IN ORDER TO AFFORD MAXIMUM ASSURANCE OF FREEDOM OF ANY CONCENTRATION OF CONTAMINATED VAPOR, A CONSISTENT ZERO (0) PERCENT READING IS REQUIRED.
 - (3) AN "EXPLOSIMETER", MODEL 2, MINE SAFETY APPLIANCE COMPANY, PITTSBURGH, PENNSYLVANIA, (OR EQUAL) SHALL BE USED IN CONDUCTING THE REQUIRED TESTS.
 - (4) BATTERY POWERED MHE MUST CONFORM STRICTLY TO THE REQUIREMENTS CITED IN DARCOM-R 385-100 CHAPTER 24.
- E. NOTICE: EXPLOSIVES MAY BE STORED IN MAGAZINES TO 1,000,000 POUNDS PROVIDING COMPLIANCE WITH DARCOM-R 385-100 CHAPTER 17 IS MAINTAINED. THE ALLOWABLE "EXPLOSIVE LIMIT" ESTABLISHED FOR A MAGAZINE IS NOT TO BE EXCEEDED.
- F. STORED ITEMS MUST NOT CONTACT THE WALLS OF A MAGAZINE. A MINIMUM OF THREE INCHES (3") WILL BE ALLOWED BETWEEN A SIDE WALL AND THE STORED ITEMS. A MINIMUM OF SIX INCHES (6") WILL BE ALLOWED BETWEEN THE REAR WALL AND CONTAINERS. CLEARANCE IS NOT REQUIRED BETWEEN STORED ITEMS AND THE BUILDING COLUMNS.
- G. AISLE DIMENSIONS SHOWN MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE MATERIAL HANDLING EQUIPMENT.
- H. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE AS PRESCRIBED BY LOCAL STANDARDS WILL NOT BE EXCEEDED.
- J. ALTHOUGH SPECIFIC PROCEDURES ARE NOT INCLUDED IN THIS DRAWING FOR STORING MULTIPLE-LOTS, THE BASIC STORAGE PATTERNS AS SHOWN MAY BE ADAPTED FOR THE STORING OF MORE THAN ONE LOT IN A MAGAZINE. SEE GENERAL NOTE "Y".
- K. WHEN STORING UNPALLETIZED CONTAINERS/BOXES AND THE ITEMS CONTAIN MORE THAN ONE LOT, THE LOTS WILL BE SEPARATED BY A 3" MINIMUM SPACE AND EACH LOT MUST BE ACCESSIBLE FROM AN AISLE TO PERMIT REMOVAL OF A LOT WITHOUT HANDLING OR RELOCATING ITEMS OF ANOTHER LOT. THE SPACING AND ACCESSIBILITY CRITERIA ALSO APPLY TO COMPATIBLE ITEMS WITH DIFFERENT NATIONAL STOCK NUMBERS BEING HAND STACKED IN THE SAME MANNER.
- L. STACK-STABILIZING DUNNAGE IN THE FORM OF "SHIMS" PROBABLY WILL BE REQUIRED TO ACHIEVE SOUND AND ACCEPTABLE STABLE STACKS. SHIM MATERIAL OF VARYING THICKNESSES WILL BE USED AS REQUIRED TO GAIN LEVEL OR NEARLY LEVEL STACKS AND SOLID BEARING WITHIN A STACK FROM THE FLOOR OF A MAGAZINE TO THE TOP OF THE STACK.
- M. A STACK IS IDENTIFIED AS THE CONTAINERS/BOXES IN A GROUP WHICH IS ONE PACKAGE LONG, FULL HEIGHT, AND EXTENDING ACROSS THE MAGAZINE FROM A 60-FOOT LONG SIDEWALL AND/OR A CENTER LINE TO AN ACCESS AISLE. A DOUBLE STACK IS TWO SINGLE STACKS HAVING SOME DUNNAGE WHICH IS COMMON TO BOTH STACKS.
- N. THE HEIGHT OF THE PACKAGE GUARD ON SOME FORKLIFT TRUCKS MAY NOT PERMIT PLACEMENT OF SOME TOP LAYER UNITS IN THE STACKS SHOWN IN THE PALLETIZED-STORAGE VIEWS HEREIN, UNLESS TWO UPPER PALLET UNITS ARE HANDLED AS ONE LIFT OR THE PACKAGE GUARD IS REMOVED (TINE CARRIAGE WILL IN MOST INSTANCES PROVIDE ADEQUATE PACKAGE GUARD PROTECTION). ONLY A FORKLIFT OF ADEQUATE CAPACITY WILL BE USED WHEN LIFTING TWO PALLET UNITS AS ONE LIFT.
- O. ANY "LIGHT" PALLET UNIT THAT DOES NOT CONTAIN A FULL QUANTITY WILL NOT BE BURIED IN STORAGE. IT MUST BE POSITIONED ADJACENT TO AN AISLE, PREFERABLY IN FRONT OF THE LOT OR ON TOP OF THE LAST STACK ADJACENT TO OR NEAREST THE MHE AISLE.
- P. IF AVAILABLE MHE PERMITS, ADDITIONAL PALLET UNITS MAY BE STORED WITHIN THE MHE AREA AND/OR OTHER AVAILABLE AREAS OF A MAGAZINE.
- Q. PROPELLANTS, COMPLETE ROUNDS, BULK POWDER, ETC., PRESENTLY STORED IN ACCORDANCE WITH A PRIOR APPROVED DRAWING NEED NOT BE RE-STORED SOLELY TO CONFORM TO THE PROCEDURES SPECIFIED IN THIS DOCUMENT.
- R. A STORAGE METHOD FOR PALLETIZED BOX/DRUM-PACKED BULK EXPLOSIVES ON PALLETS EQUIPPED WITH PALLET RACKS IS DELINEATED ON PAGE 44 THRU 46 AND 56 THRU 59. THIS METHOD CAN ALSO BE USED FOR STORING OTHER COMMODITIES AS IDENTIFIED IN THIS DRAWING. GENERALLY, WHEN COMPARED TO A "HAND-STACKED" STORAGE METHOD, THE STORAGE METHOD SHOWN ON PAGES 44 THRU 46 AND 56 THRU 59, WILL REQUIRE ABOUT 20 PERCENT MORE SPACE TO STORE THE SAME QUANTITY OF PACKAGES.
- S. UNLESS OTHERWISE SPECIFIED, DUNNAGE LUMBER THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 1" X 4" MATERIAL IS ACTUALLY 3/4" THICK BY 3-1/2" WIDE AND 2" X 4" MATERIAL IS ACTUALLY 1-1/2" THICK BY 3-1/2" WIDE.
- T. NOTICE: A STAGGERED NAILING PATTERN WILL BE USED WHEREVER POSSIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE ASSEMBLIES. ALSO, A STAGGERED NAILING PATTERN WILL BE USED 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 ON TO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.
- U. NAILING THROUGH ANY PORTION OF THE STORED BOXES AND/OR UNITS IS PROHIBITED.
- V. WHEN ANY STRAP IS SEALED AT AN END-OVER-END LAP JOINT, USE ONE (1) SEAL WITH TWO (2) PAIR OF CRIMPS TO SEAL THE JOINT.
- W. 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 0.454KG.
- X. PORTIONS OF THE MAGAZINES, SUCH AS ROOFS, HAVE NOT BEEN SHOWN IN THE STORAGE VIEWS FOR CLARITY PURPOSES.
- Y. WHEN STORING PALLETIZED CONTAINER/BOXES, THE LARGEST LOT SHOULD BE STORED IN THE REAR OR ON ONE SIDE OF THE MAGAZINE. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MATERIAL HANDLING EQUIPMENT. A SINGLE-LOT OF PALLET UNITS IS CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWENTY-FOUR (24) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THAT LOT. THE TERM "LIFT" MEANS HANDLING AND MOVING ONE OR MORE PALLET UNITS AT ONE TIME, PROVIDING THE CAPACITY OF THE MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER, THEY SHOULD BE SEPARATED BY AT LEAST 1' TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT. MIXED-LOT PALLET UNITS ARE ACCEPTABLE. A MIXED-LOT PALLET UNIT MAY HAVE FROM TWO LOTS PER PALLET UNIT UPWARDS TO AS MANY DIFFERENT LOTS AS THERE ARE CONTAINERS/BOXES WITHIN THAT UNIT. HOWEVER, ALL ITEMS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE. ALSO FOR MIXED-LOT PALLET UNITS, AN INSPECTION AISLE NOT LESS THAN 18" WIDE MUST BE PROVIDED ALONG AT LEAST ONE SIDE OF EACH STORED PALLET UNIT TO ACCOMPLISH INVENTORY AND INSPECTION OPERATIONS.
- Z. THE PRINCIPLES OF THE STORAGE PROCEDURES DEPICTED HEREIN MAY BE APPLIED FOR THE STORAGE OF CONTAINERS/BOXES WHICH ARE OF SIMILAR SIZE AND CONFIGURATION.

(GENERAL NOTES CONTINUED)

REVISIONS

REVISION NO. 1, DATED MAY 1986, CONSISTS OF:

1. CHANGING THE TITLE BLOCK FROM U.S. ARMY DARCOM DRAWING TO U.S. ARMY AMC DRAWING.
2. ADDING SPECIAL PROCEDURES ON PAGES 76 THRU 81 FOR STORAGE OF FIBERBOARD BOXES AND FIBERBOARD DRUMS IN GEOGRAPHICAL AREAS WHERE THE HUMIDITY IS HIGH.
3. ADDING PROCEDURES ON PAGES 82 AND 83 FOR COMPLETE ROUNDS IN PA98 AND PA104 CONTAINERS.
4. ADDING ALTERNATIVE PROCEDURES ON PAGE 84 FOR STORAGE OF POWDER, PROPELLANT, PACKED IN STEEL BOX, M2 AND MKVII.

REVISION NO. 2, DATED OCTOBER 1988, CONSISTS OF:

1. REMOVING PALLETIZED TNT FROM PAGES 42 AND 43, AND REPLACING WITH SMALL LOT STORAGE PROCEDURES.
2. UPDATING SPECIAL NOTES.

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MATERIAL SPECIFICATIONS

- LUMBER-----: SEE TM 743-200-1, DUNNAGE LUMBER, FED SPEC MM-L-751.
- NAILS-----: COMMON, FED SPEC FF-N-105.
- STRAPPING, STEEL-----: CLASS I, TYPE I OR II, HEAVY DUTY, FINISH B (GRADE 2), FED SPEC QQ-5-781.
- SEAL, STRAP-----: TYPE D, STYLE I, II, OR III, CLASS H, FINISH B (GRADE 2), FED SPEC QQ-5-781.

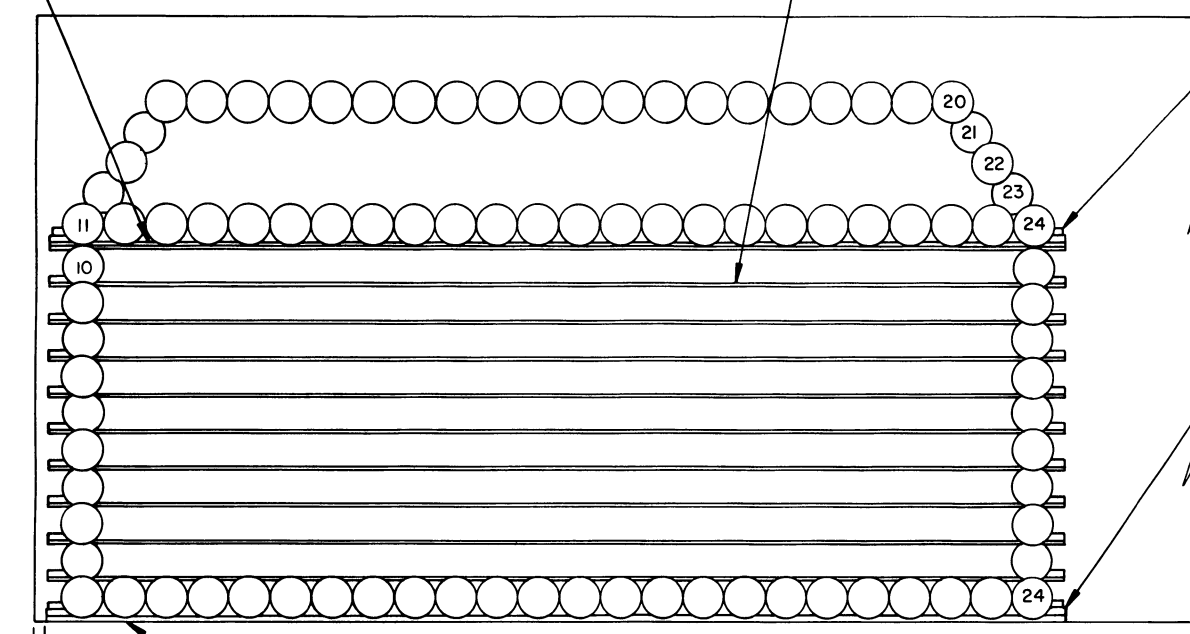
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INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPlice DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (8 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 9'-2" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINERS AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 5 ON THIS PAGE.

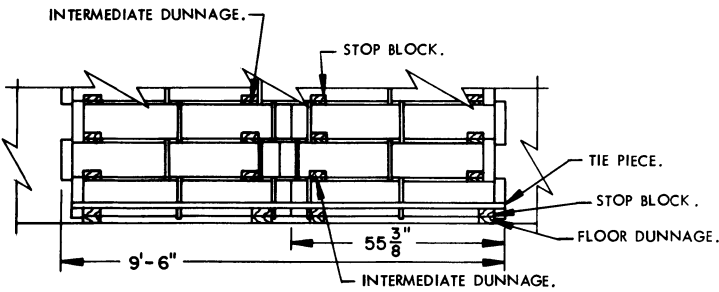
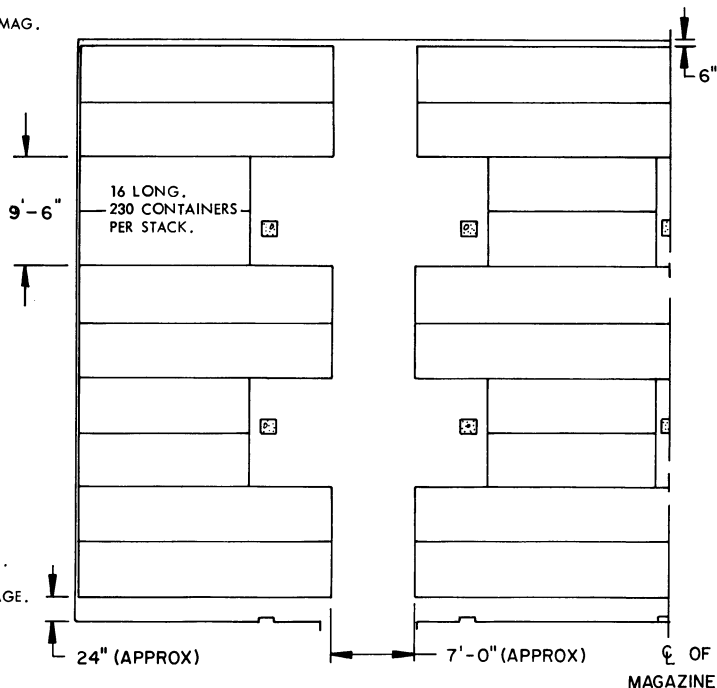
STOP BLOCK, 2" X 4" X 5" (44 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.



FLOOR DUNNAGE, 2" X 4" BY A LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
350 CONTAINERS PER STACK.
6,040 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 24 LONG	1" X 4"	511	171
	2" X 4"	84	56
SINGLE STACK 16 LONG	1" X 4"	320	107
	2" X 4"	66	44
	NAILS	N.O. REQD	POUNDS
SINGLE STACK 24 LONG	6d (2")	164	1
	10d (3")	36	3/4
SINGLE STACK 16 LONG	6d (2")	148	1
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW
1/2 OF MAGAZINE

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE M10A4 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL M10 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----55-3/8" LONG BY 10-15/32" DIAMETER.
- WHEN STORING THE M10A2 CONTAINER IT MAY BE NECESSARY TO ELIMINATE ONE (1) CONTAINER FROM EACH LAYER DUE TO SLIGHTLY LARGER DIAMETER OF THE CONTAINER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.

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(SPECIAL NOTES CONTINUED)

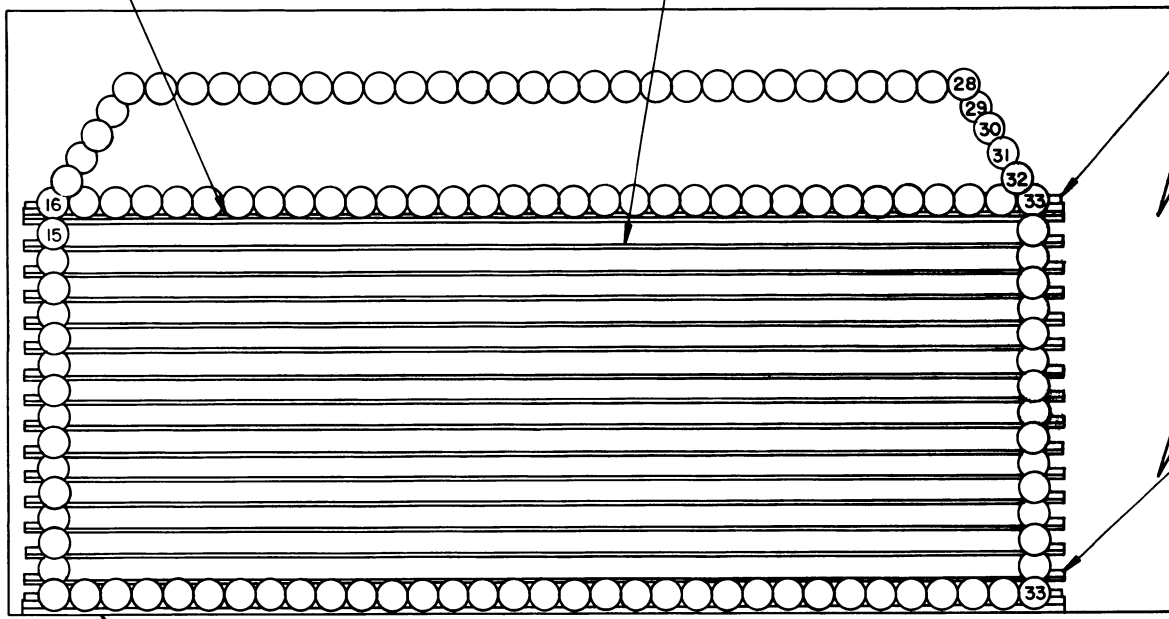
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.
- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
- ALL CONTAINERS POSITIONED ABOVE LAYER ELEVEN (11) ARE NESTED.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPlice DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (28 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 55" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINERS AND NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE SPECIAL NOTE 5 ON THIS PAGE.

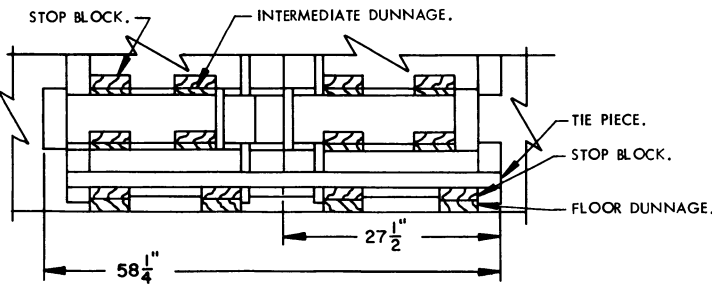
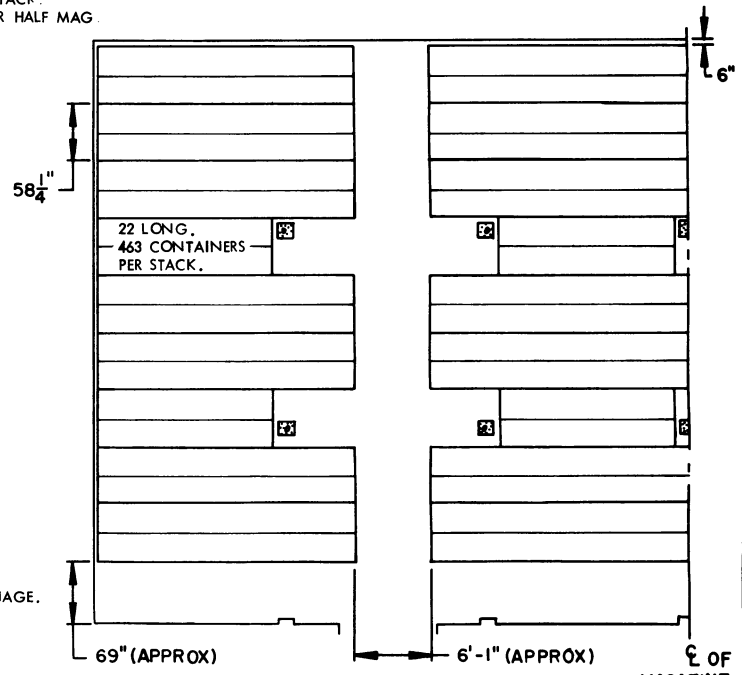
STOP BLOCK, 2" X 4" X 5" (64 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.



FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
705 CONTAINERS PER STACK.
23,444 CONTAINERS PER HALF MAG

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 33 LONG	1" X 4"	791	264
	2" X 4"	84	56
SINGLE STACK 22 LONG	1" X 4"	590	197
	2" X 4"	66	44
	NAILS	NO. REQD	POUNDS
SINGLE STACK 33 LONG	6d (2")	222	1-1/2
	10d (3")	36	3/4
SINGLE STACK 22 LONG	6d (2")	210	1-1/4
	10d (3")	36	3/4



PARTIAL END VIEW OF A DOUBLE STACK

PARTIAL PLAN VIEW
1/2 OF MAGAZINE

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE M13A2 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL M13 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----27-1/2" LONG BY 7-25/32" DIAMETER.
- WHEN STORING THE M13A1 CONTAINER IT MAY BE NECESSARY TO ELIMINATE SOME CONTAINERS FROM EACH LAYER DUE TO SLIGHTLY LARGER DIAMETER OF THE CONTAINER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE:** THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

(SPECIAL NOTES CONTINUED)

- NOTE:** JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
- ALL CONTAINERS POSITIONED ABOVE LAYER SIXTEEN (16) ARE NESTED.

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INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPlice DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (34 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

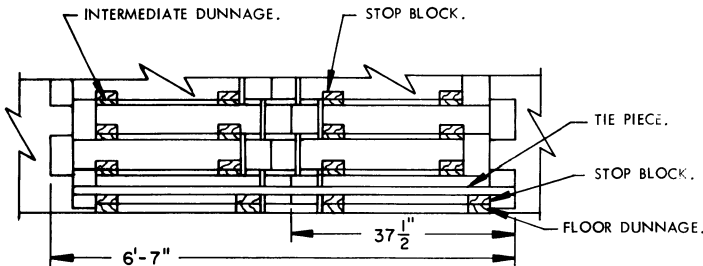
TIE PIECE, 2" X 4" X 6'-3" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.

STOP BLOCK, 2" X 4" X 5" (76 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.

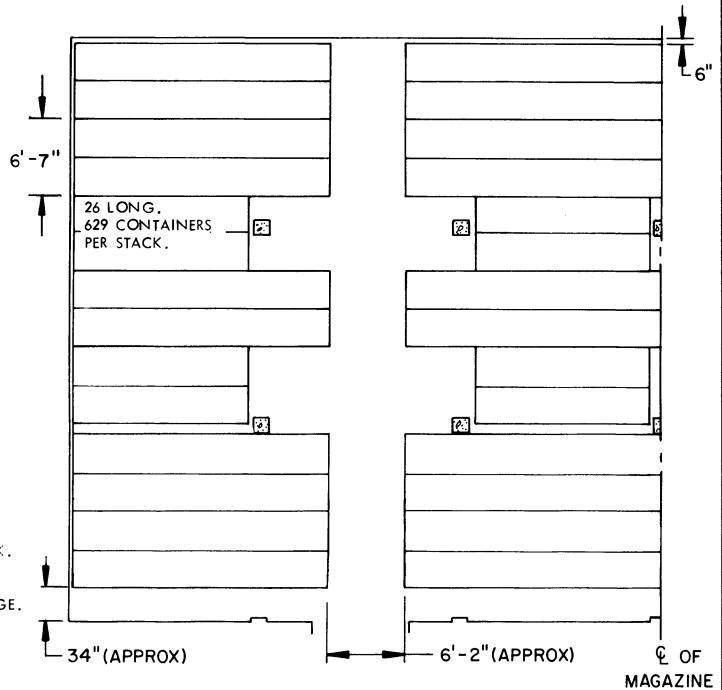
FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
929 CONTAINERS PER STACK.
23,612 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 38 LONG	1" X 4"	891	297
	2" X 4"	91	61
SINGLE STACK 26 LONG	1" X 4"	573	191
	2" X 4"	75	50
	NAILS	NO. REQD	POUNDS
SINGLE STACK 38 LONG	6d (2")	260	1-3/4
	10d (3")	36	3/4
SINGLE STACK 26 LONG	6d (2")	246	1-1/2
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE M14 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL M14 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----37-1/2" LONG BY 6-11/16" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.

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(SPECIAL NOTES CONTINUED)

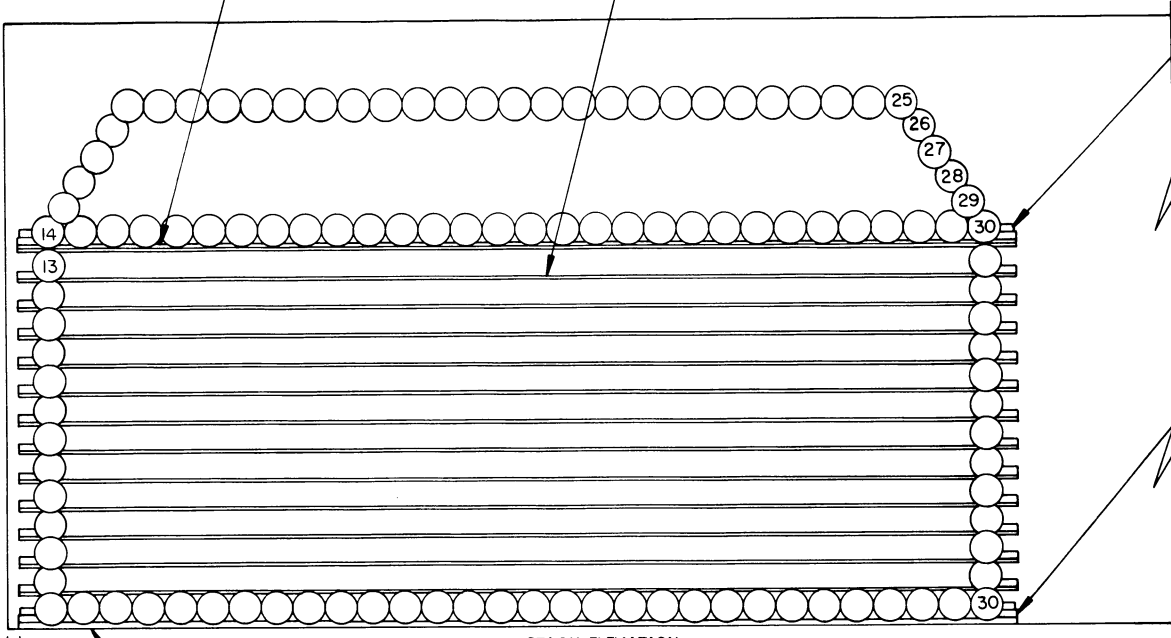
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ON ONLY THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.
- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
- ALL CONTAINERS POSITIONED ABOVE LAYER NINETEEN (19) ARE NESTED.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPlice DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (24 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 7'-1" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.

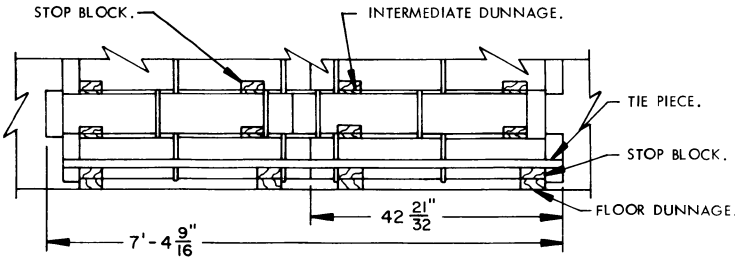
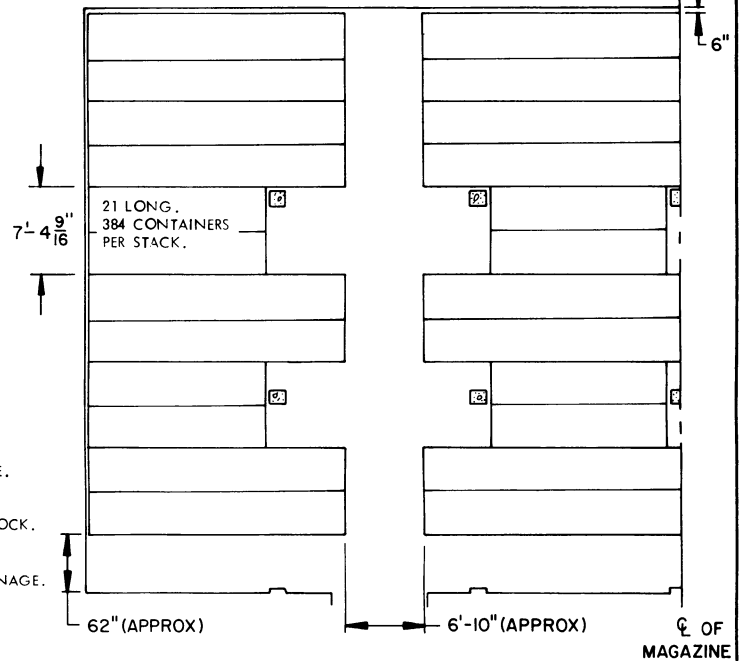
STOP BLOCK, 2" X 4" X 5" (56 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.



3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
555 CONTAINERS PER STACK.
11,952 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 30 LONG	1" X 4"	652	217
	2" X 4"	85	57
SINGLE STACK 21 LONG	1" X 4"	479	159
	2" X 4"	69	46
	NAILS	NO. REQD	POUNDS
SINGLE STACK 30 LONG	6d (2")	200	1-1/4
	10d (3")	36	3/4
SINGLE STACK 21 LONG	6d (2")	186	1-1/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE M16A3 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL M16 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----42-21/32" LONG BY 8-13/32" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.

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(SPECIAL NOTES CONTINUED)

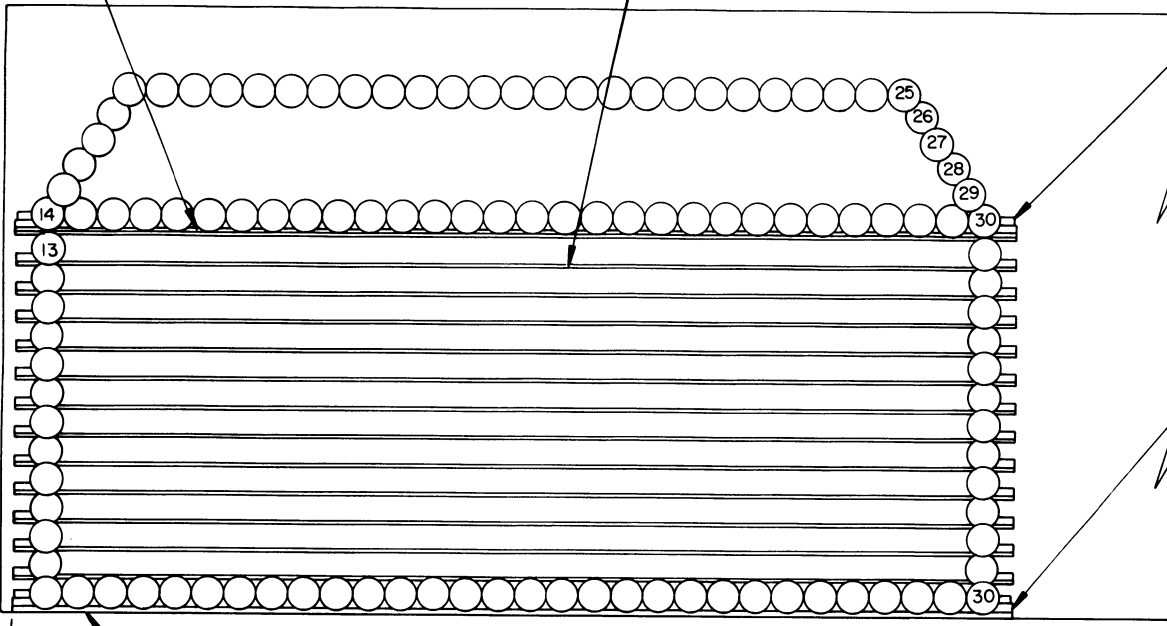
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.
- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
- ALL CONTAINERS POSITIONED ABOVE LAYER FOURTEEN (14) ARE NESTED.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPlice DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (24 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 52-1/2" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.

STOP BLOCK, 2" X 4" X 5" (56 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.



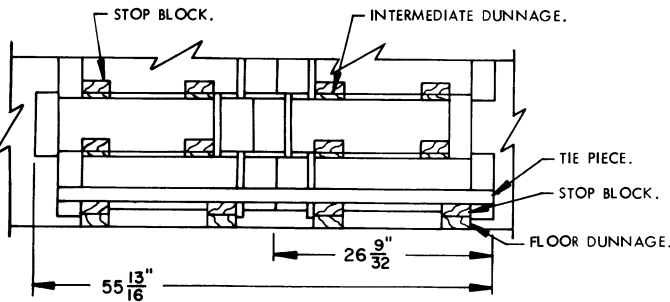
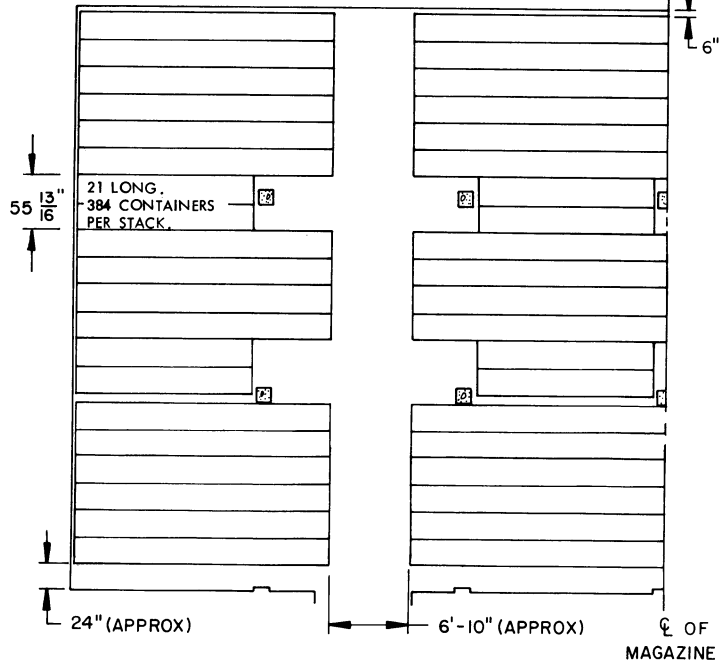
FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION

555 CONTAINERS PER STACK.
20,832 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 30 LONG	1" X 4"	652	217
	2" X 4"	79	53
SINGLE STACK 21 LONG	1" X 4"	429	143
	2" X 4"	63	42
	NAILS	NO. REQD	POUNDS
SINGLE STACK 30 LONG	6d (2")	200	1-1/4
	10d (3")	36	3/4
SINGLE STACK 21 LONG	6d (2")	186	1-1/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

(SPECIAL NOTES CONTINUED)

SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE M18A2 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL M18 SERIES CONTAINERS.
CONTAINER DIMENSIONS----26-9/32" LONG BY 8-13/32" DIAMETER.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
3. STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
4. NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

5. NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
6. THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
7. ALL CONTAINERS POSITIONED ABOVE LAYER FOURTEEN (14) ARE NESTED.

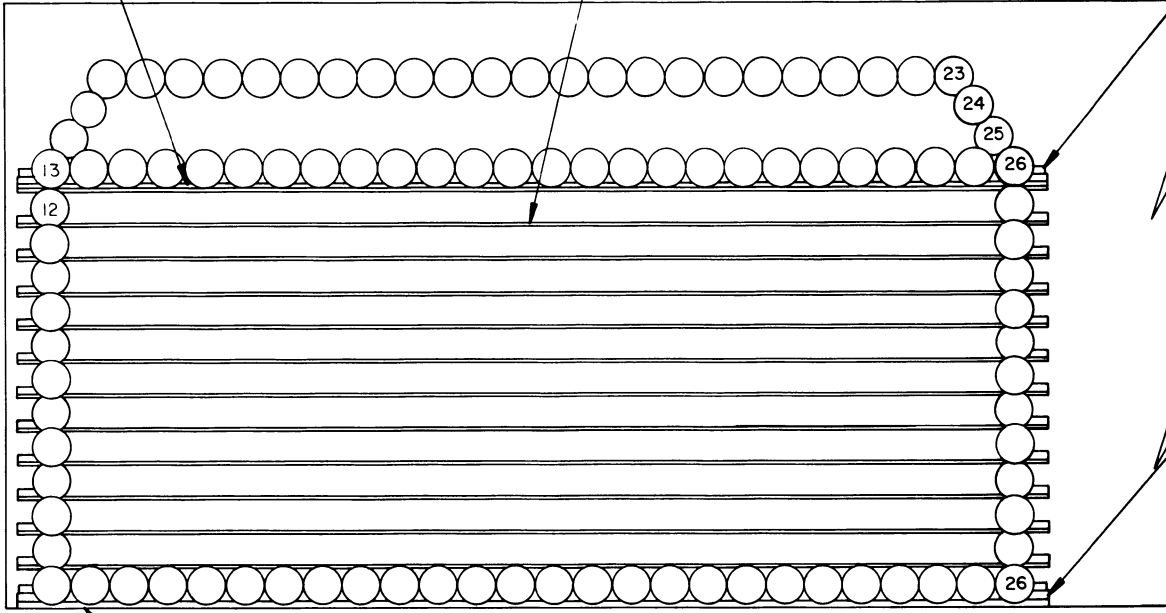
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INTERMEDIATE DUNNAGE, 1" X 4" B' LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPlice DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (22 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 58-1/2" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.

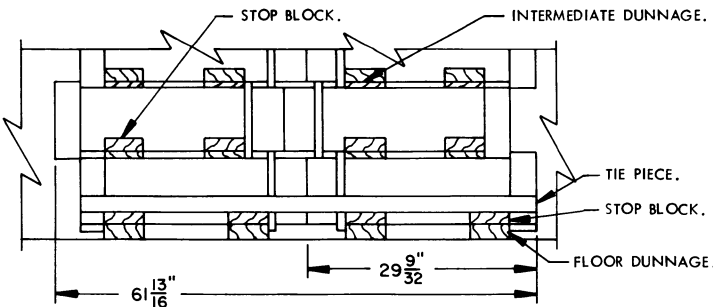
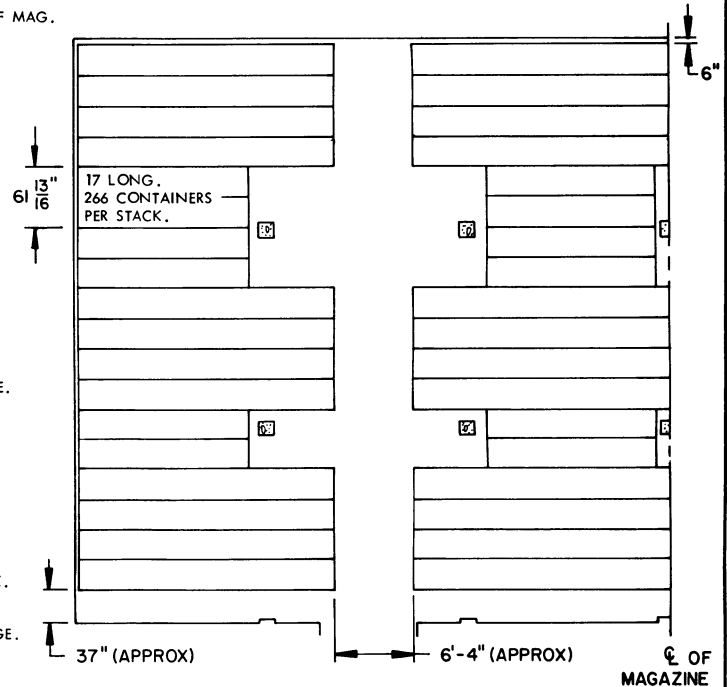
STOP BLOCK, 2" X 4" X 5" (52 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.



3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
410 CONTAINERS PER STACK.
13,032 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 26 LONG	1" X 4"	612	204
	2" X 4"	79	53
SINGLE STACK 17 LONG	1" X 4"	423	141
	2" X 4"	61	41
	NAILS	NO. REQD	POUNDS
SINGLE STACK 26 LONG	6d (2")	188	1-1/4
	10d (3")	36	3/4
SINGLE STACK 17 LONG	6d (2")	172	1-1/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE M19A2 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL M19 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----29-9/32" LONG BY 9-13/16" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

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(SPECIAL NOTES CONTINUED)

- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
- ALL CONTAINERS POSITIONED ABOVE LAYER THIRTEEN (13) ARE NESTED.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPLICE DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (24 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPLICE DETAIL" ON PAGE 74.

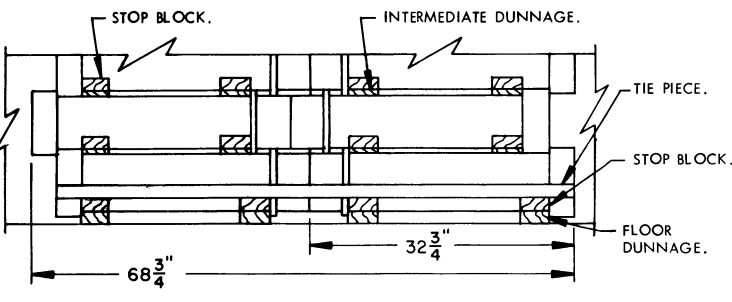
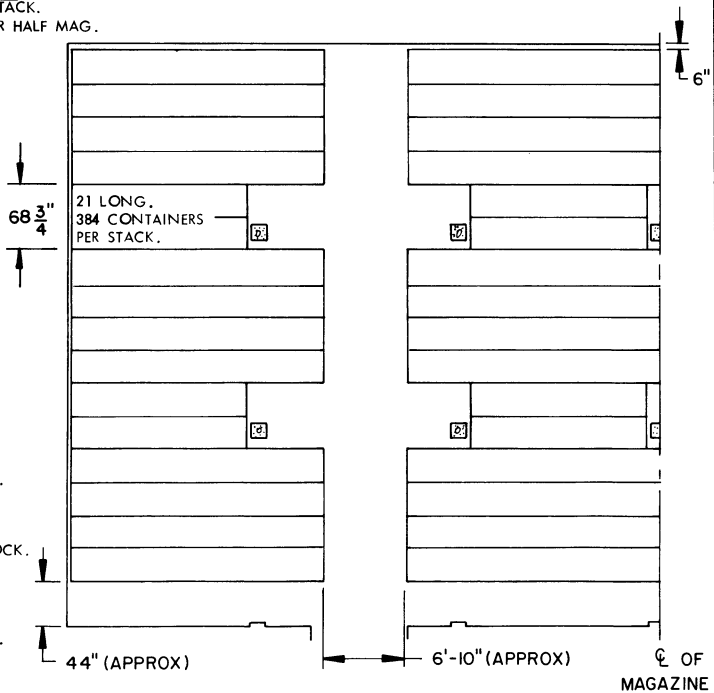
TIE PIECE, 2" X 4" X 65-1/2" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.

STOP BLOCK, 2" X 4" X 5" (56 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.

FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
555 CONTAINERS PER STACK.
16,392 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 30 LONG	1" X 4"	652	217
	2" X 4"	81	54
SINGLE STACK 21 LONG	1" X 4"	428	143
	2" X 4"	65	44
	NAILS	NO. REQD	POUNDS
SINGLE STACK 30 LONG	6d (2")	200	1-1/4
	10d (3")	36	3/4
SINGLE STACK 21 LONG	6d (2")	186	1-1/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW (1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE PA37 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA37 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----32-3/4" LONG BY 8-13/32" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

(SPECIAL NOTES CONTINUED)

- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
- ALL CONTAINERS POSITIONED ABOVE LAYER FOURTEEN (14) ARE NESTED.

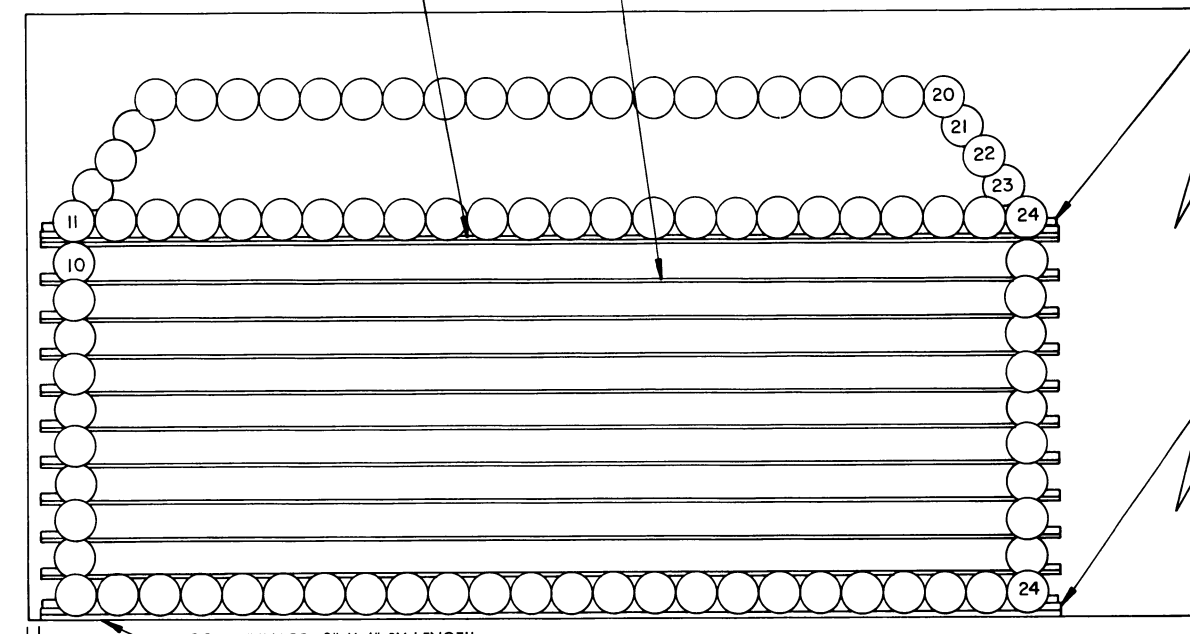
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INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPlice DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (9 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 6'-3-1/2" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.

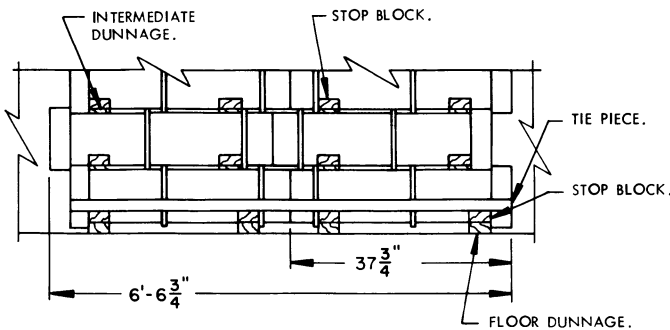
STOP BLOCK, 2" X 4" X 5" (44 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.



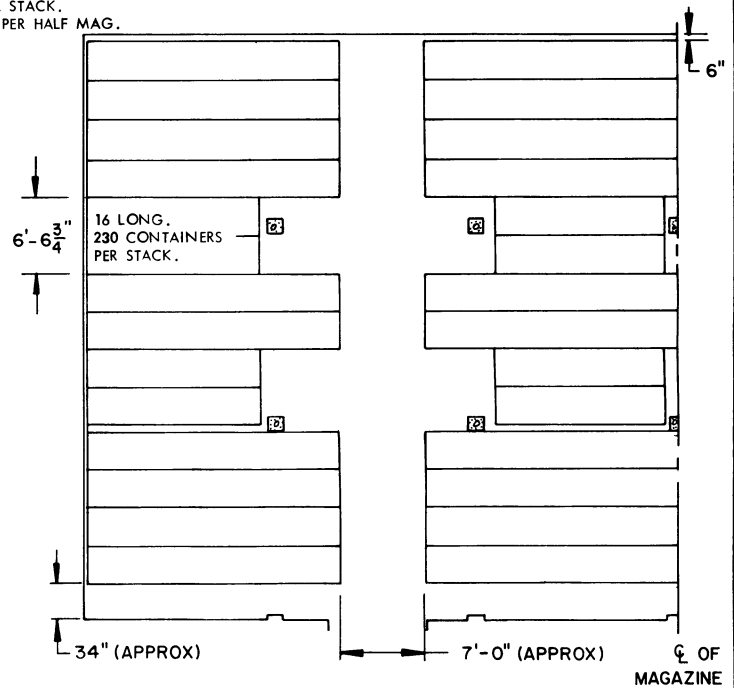
3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
350 CONTAINERS PER STACK.
18,840 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 24 LONG	1" X 4"	511	170
	2" X 4"	78	52
SINGLE STACK 16 LONG	1" X 4"	320	107
	2" X 4"	60	40
	NAILS	NO. REQD	POUNDS
SINGLE STACK 24 LONG	6d (2")	164	1
	10d (3")	36	3/4
SINGLE STACK 16 LONG	6d (2")	150	1
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE PA66 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA66 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----37-3/4" LONG BY 10-15/32" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

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(SPECIAL NOTES CONTINUED)

- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
- ALL CONTAINERS POSITIONED ABOVE LAYER ELEVEN (11) ARE NESTED.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPLICE DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (12 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPLICE DETAIL" ON PAGE 74.

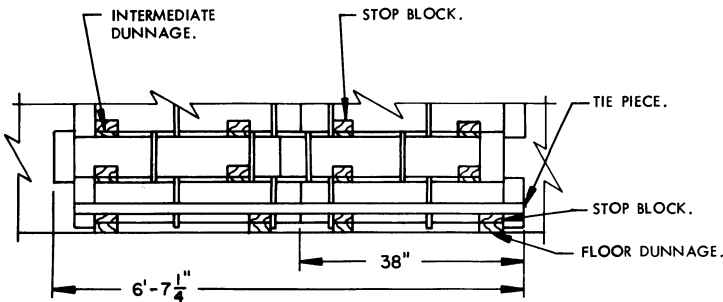
TIE PIECE, 2" X 4" X 6'-4" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.

STOP BLOCK, 2" X 4" X 5" (56 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.

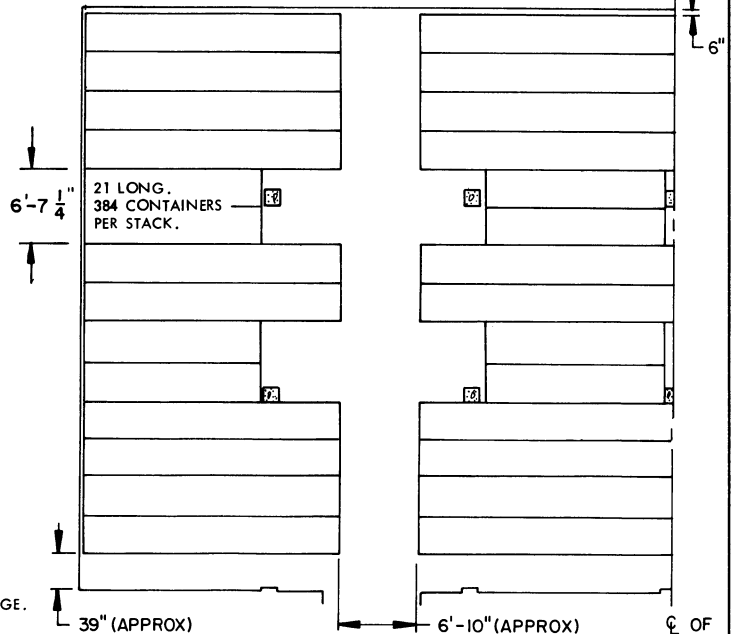
FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
555 CONTAINERS PER STACK.
14,172 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 30 LONG	1" X 4"	652	217
	2" X 4"	83	56
SINGLE STACK 21 LONG	1" X 4"	429	143
	2" X 4"	67	45
	NAILS	NO. REQD	POUNDS
SINGLE STACK 30 LONG	6d (2")	200	1-1/4
	10d (3")	36	3/4
SINGLE STACK 21 LONG	6d (2")	186	1-1/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE PA68 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA68 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----38" LONG BY 8-13/32" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

(SPECIAL NOTES CONTINUED)

- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
- ALL CONTAINERS POSITIONED ABOVE LAYER FOURTEEN (14) ARE NESTED.

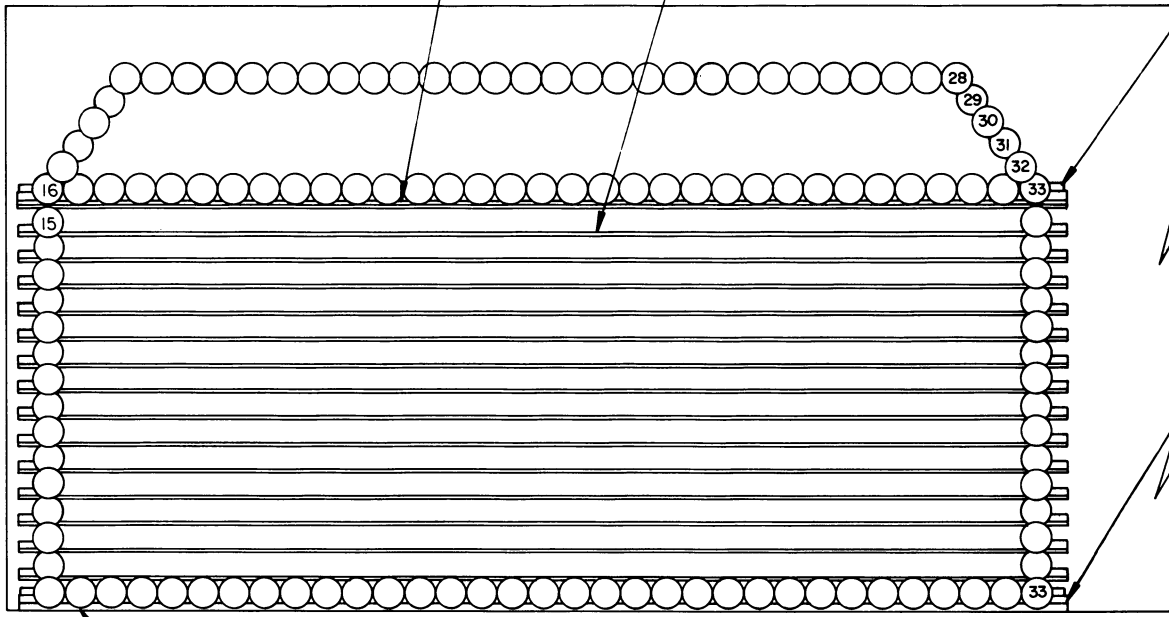
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INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPLICE DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (28 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPLICE DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 70-1/2" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.

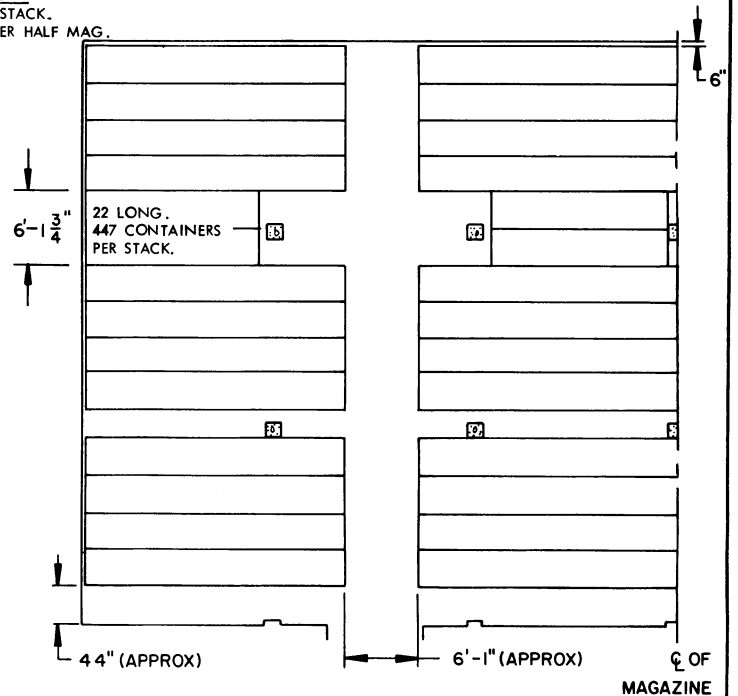
STOP BLOCK, 2" X 4" X 5" (64 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.



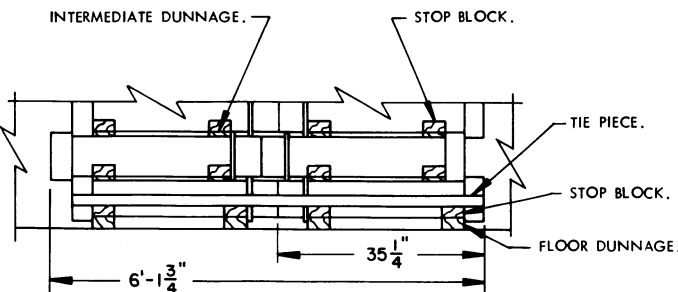
3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
678 CONTAINERS PER STACK.
18,060 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 33 LONG	1" X 4"	757	252
	2" X 4"	86	58
SINGLE STACK 22 LONG	1" X 4"	476	159
	2" X 4"	69	46
	NAILS	NO. REQD	POUNDS
SINGLE STACK 33 LONG	6d (2")	224	1-1/2
	10d (3")	36	3/4
SINGLE STACK 22 LONG	6d (2")	210	1-1/4
	10d (3")	36	3/4



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)



PARTIAL END VIEW OF DOUBLE STACK

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE PA75 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA75 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----35-1/4" LONG BY 7-25/32" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

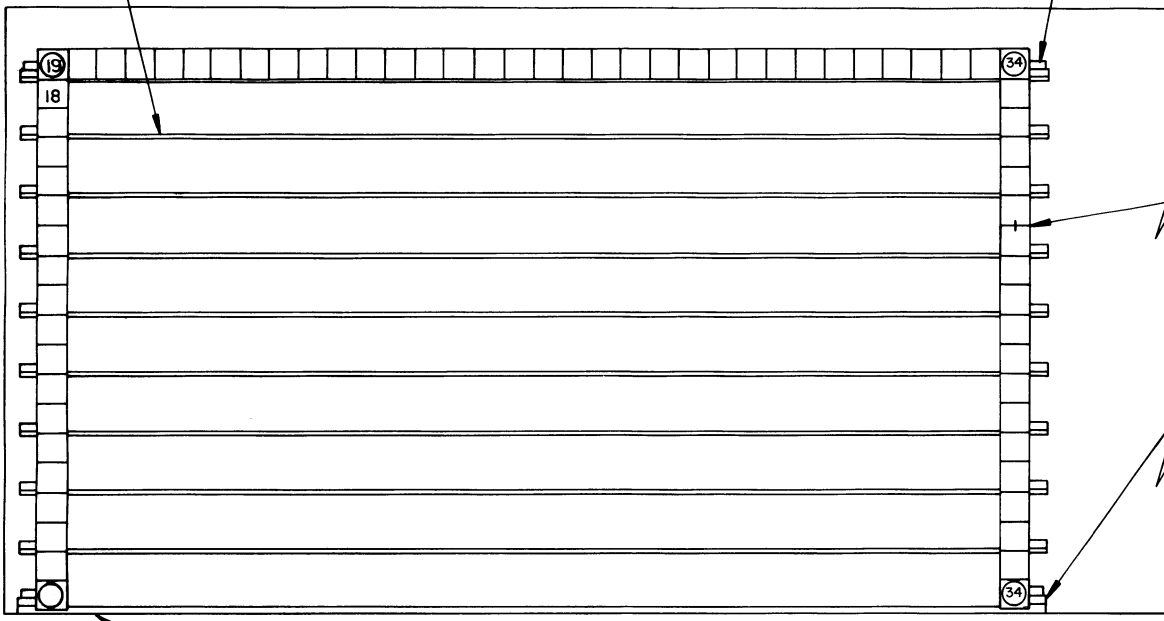
(SPECIAL NOTES CONTINUED)

- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
- ALL CONTAINERS POSITIONED ABOVE LAYER SIXTEEN (16) ARE NESTED.

(CONTINUED AT RIGHT)

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (18 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 72" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINERS AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.



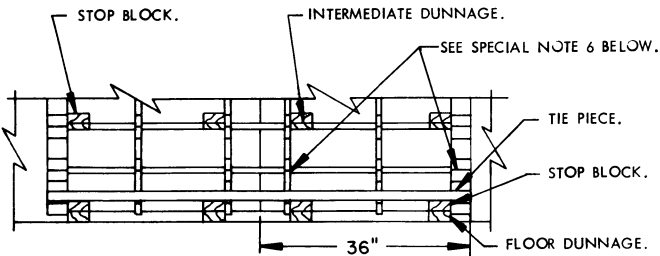
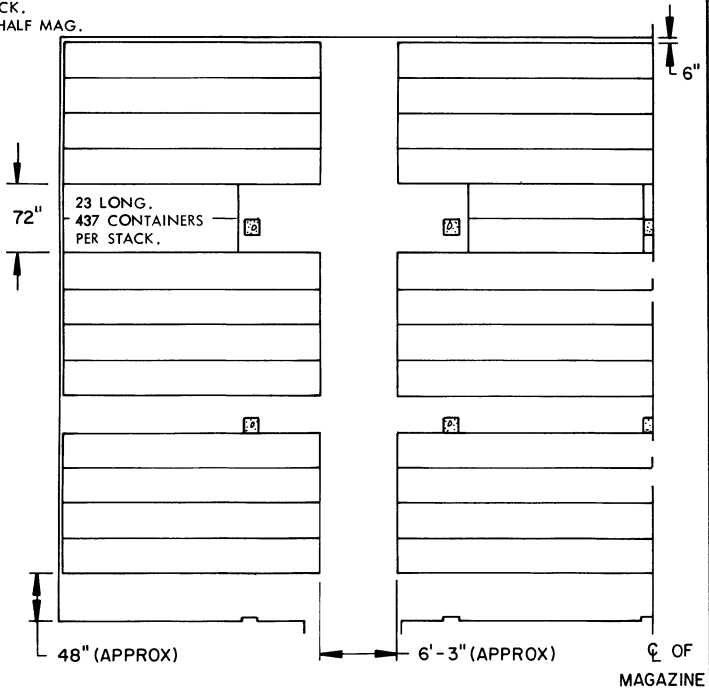
SEE SPECIAL NOTE 6 BELOW.

STOP BLOCK, 2" X 4" X 5" (40 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.

FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
646 CONTAINERS PER STACK.
17,252 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 34 LONG	1" X 4"	425	142
	2" X 4"	76	51
SINGLE STACK 23 LONG	1" X 4"	271	90
	2" X 4"	59	40
	NAILS	NO. REQD	POUNDS
SINGLE STACK 34 LONG	6d (2")	108	3/4
	10d (3")	36	3/4
SINGLE STACK 23 LONG	6d (2")	108	3/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

(SPECIAL NOTES CONTINUED)

SPECIAL NOTES:

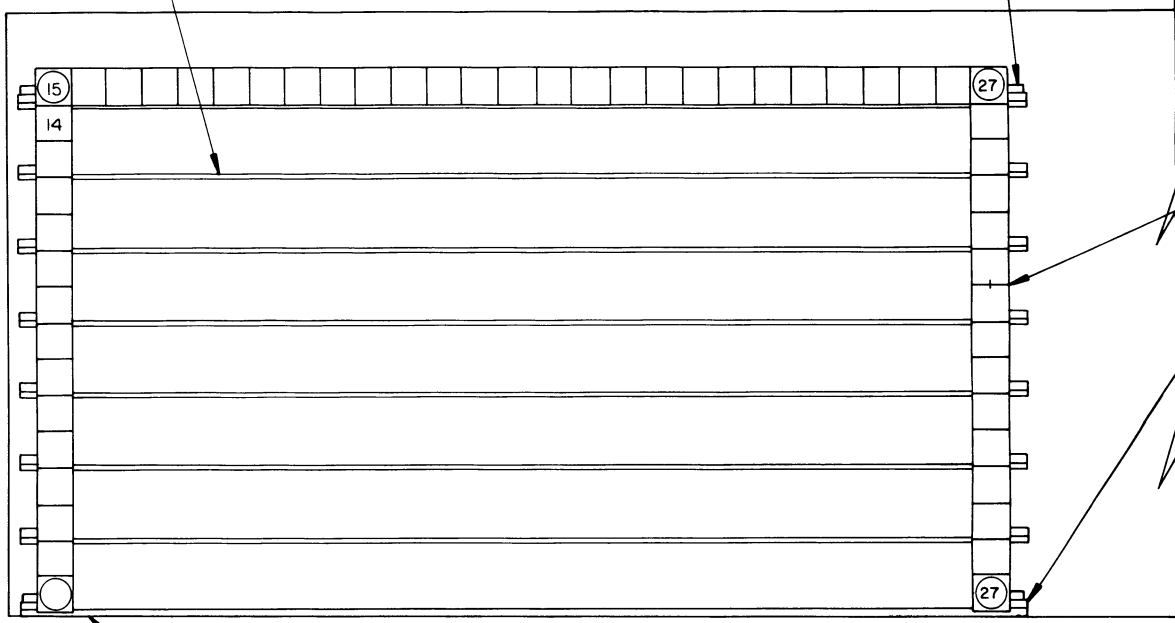
- STORAGE AS SHOWN IS FOR THE PA91 CONTAINER. USE THE SAME STORAGE FORMAT FOR ALL PA91 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----36" LONG BY 7-1/2" WIDE BY 7-1/2" HIGH.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- NOTE: THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

(CONTINUED AT RIGHT)

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (14 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 6'-1" (4 REQD PER STACK), POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.



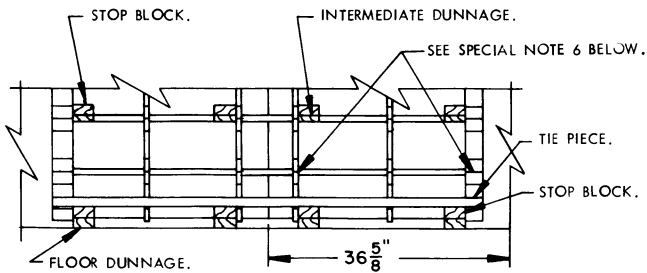
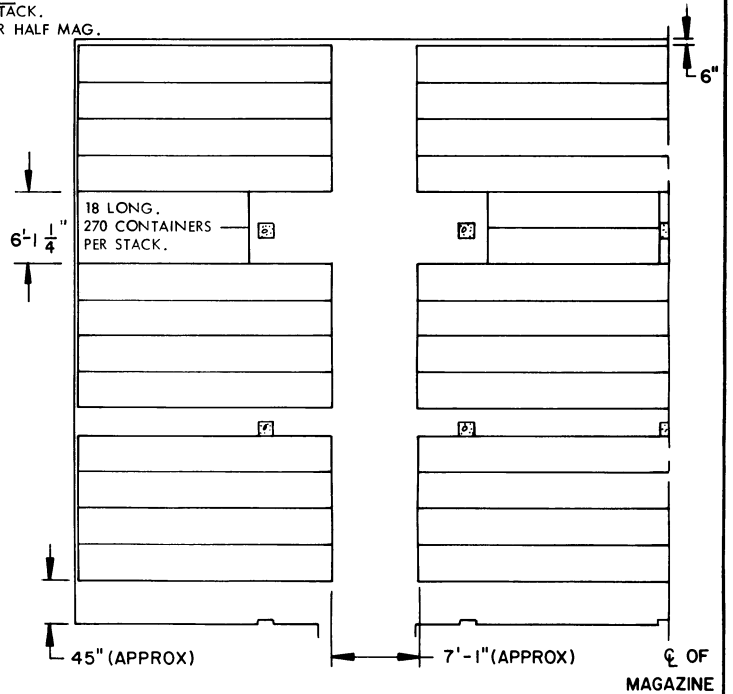
SEE SPECIAL NOTE 6 BELOW.

STOP BLOCK, 2" X 4" X 5" (32 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.

3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
405 CONTAINERS PER STACK.
10,800 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 27 LONG	1" X 4"	325	108
	2" X 4"	72	48
SINGLE STACK 18 LONG	1" X 4"	204	68
	2" X 4"	55	37
	NAILS	NO. REQD	POUNDS
SINGLE STACK 27 LONG	6d (2")	84	1/2
	10d (3")	36	3/4
SINGLE STACK 18 LONG	6d (2")	84	1/2
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

(SPECIAL NOTES CONTINUED)

SPECIAL NOTES:

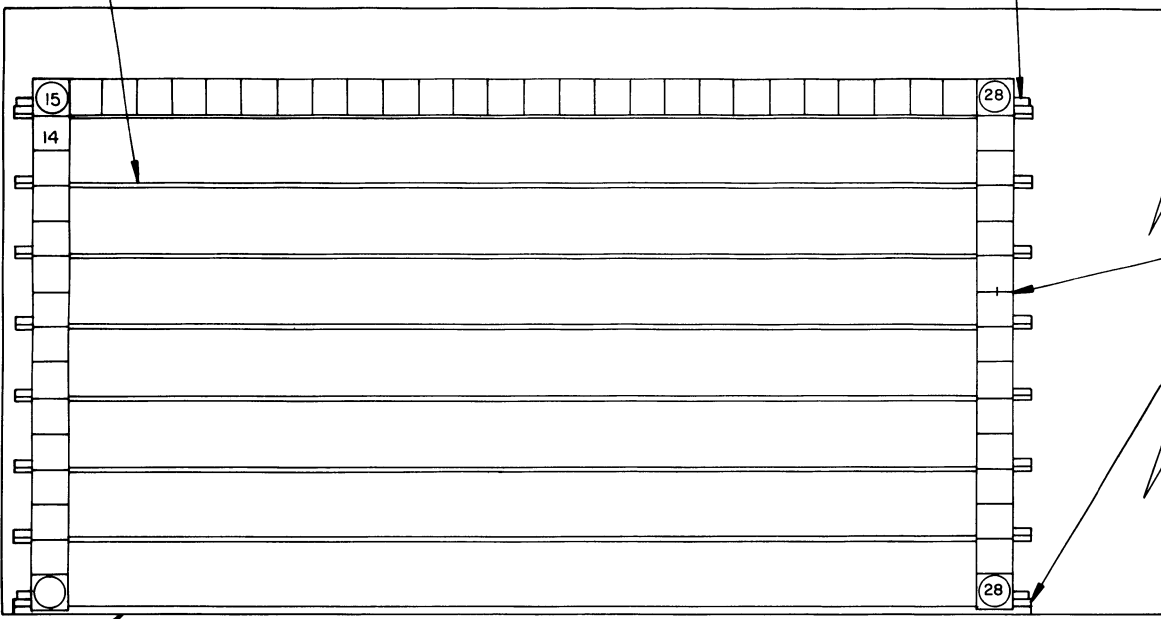
- STORAGE AS SHOWN IS FOR THE PA92 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA92 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----36-5/8" LONG BY 9-1/4" WIDE BY 9-1/4" HIGH.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- NOTE: THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

(CONTINUED AT RIGHT)

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (14 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPLICE DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 56" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.



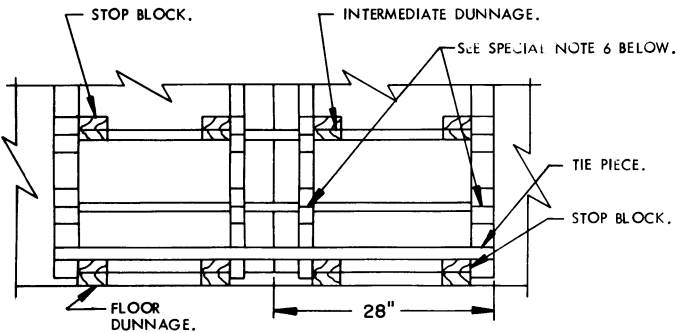
SEE SPECIAL NOTE 6 BELOW.

STOP BLOCK, 2" X 4" X 5" (32 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.

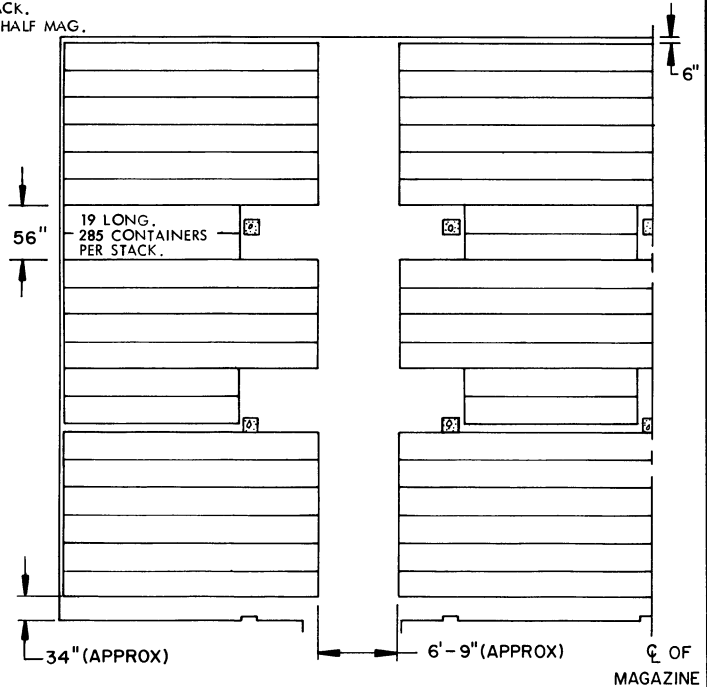
3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
420 CONTAINERS PER STACK.
1,5720 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 28 LONG	1" X 4"	327	109
	2" X 4"	70	47
SINGLE STACK 19 LONG	1" X 4"	209	70
	2" X 4"	45	30
	NAILS	NO. REQD	POUNDS
SINGLE STACK 28 LONG	6d (2")	84	1/2
	10d (3")	36	3/4
SINGLE STACK 19 LONG	6d (2")	84	1/2
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

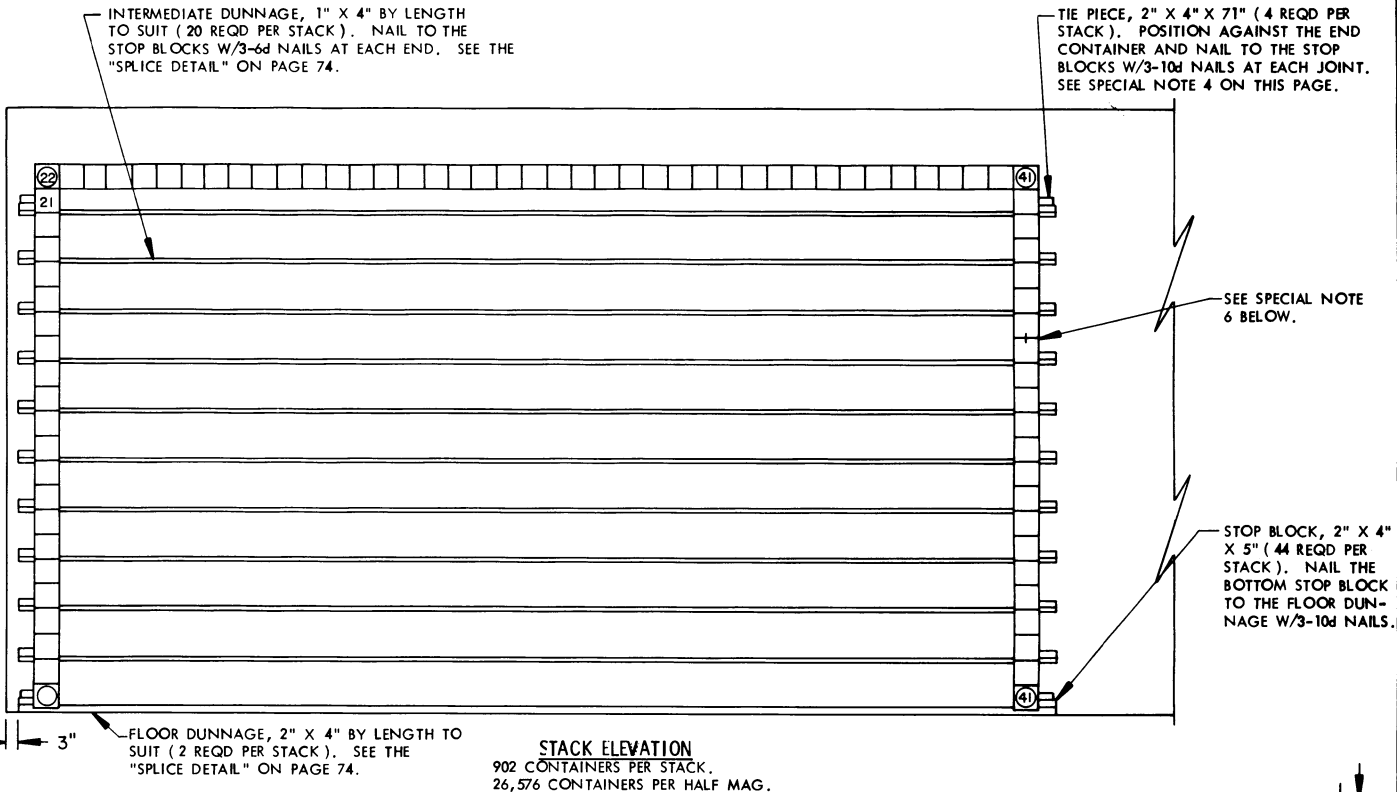
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE PA93 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA93 SERIES CONTAINERS.
CONTAINER DIMENSIONS----28" LONG BY 9" WIDE BY 9" HIGH.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
3. STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.

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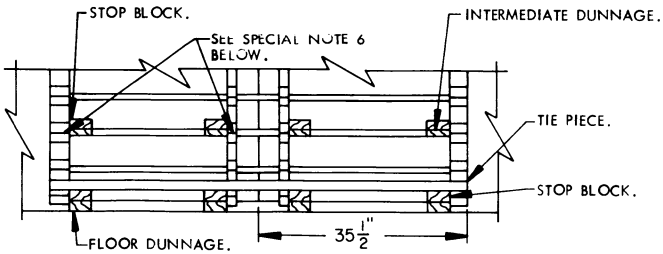
(SPECIAL NOTES CONTINUED)

4. NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.
5. NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
6. NOTE: THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

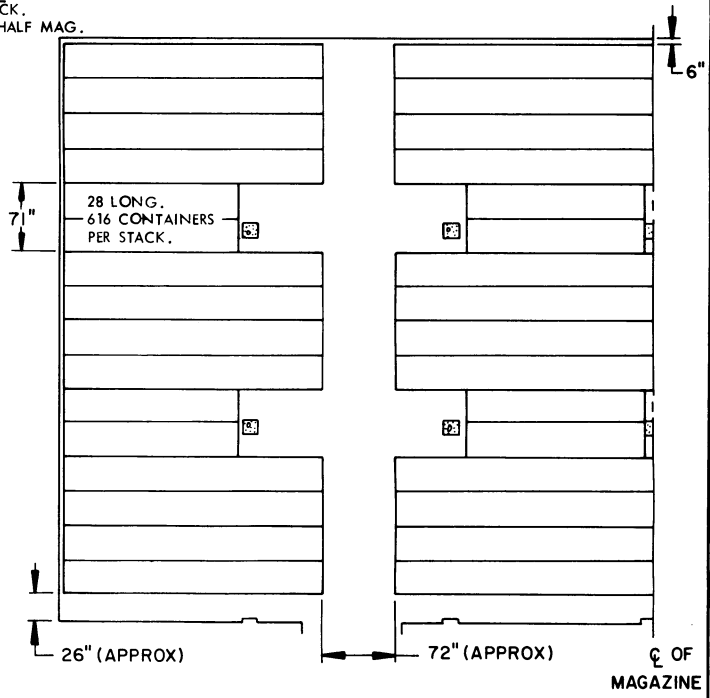


STACK ELEVATION
 902 CONTAINERS PER STACK.
 26,576 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 41 LONG	1" X 4"	474	158
	2" X 4"	78	52
SINGLE STACK 28 LONG	1" X 4"	305	102
	2" X 4"	61	41
	NAILS	NO. REQD	POUNDS
SINGLE STACK 41 LONG	6d (2")	120	3/4
	10d (3")	36	3/4
SINGLE STACK 28 LONG	6d (2")	120	3/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
 (1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE PA94 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA94 SERIES CONTAINERS.
 CONTAINER DIMENSIONS-----35-1/2" LONG BY 6-1/4" WIDE BY 6-1/4" HIGH.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE:** THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

(CONTINUED AT RIGHT)

- (SPECIAL NOTES CONTINUED)
- NOTE:** JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
 - NOTE:** THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (18 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 50" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON PAGE 7.

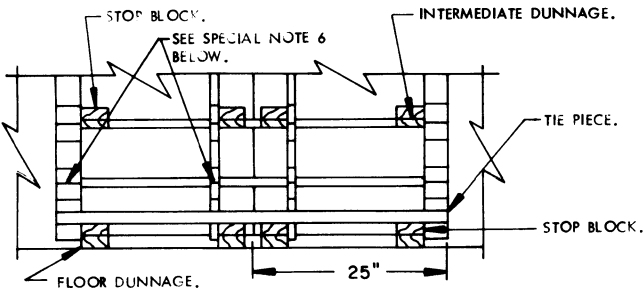
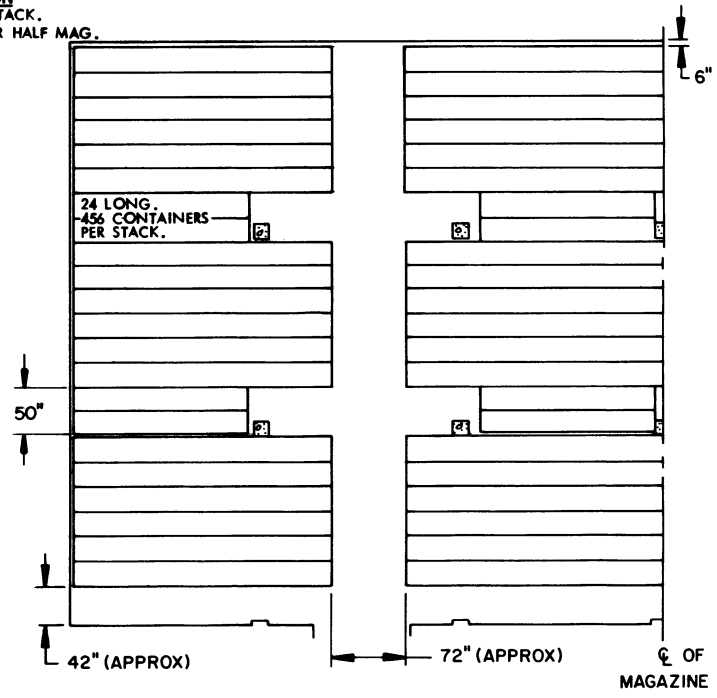
SEE SPECIAL NOTE 6 BELOW.

STOP BLOCK, 2" X 4" X 5" (40 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.

3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
684 CONTAINERS PER STACK.
28,272 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 36 LONG	1" X 4"	427	143
	2" X 4"	73	49
SINGLE STACK 24 LONG	1" X 4"	269	90
	2" X 4"	55	37
	NAILS	NO. REQD	POUNDS
SINGLE STACK 36 LONG	6d (2")	108	3/4
	10d (3")	36	3/4
SINGLE STACK 24 LONG	6d (2")	108	3/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

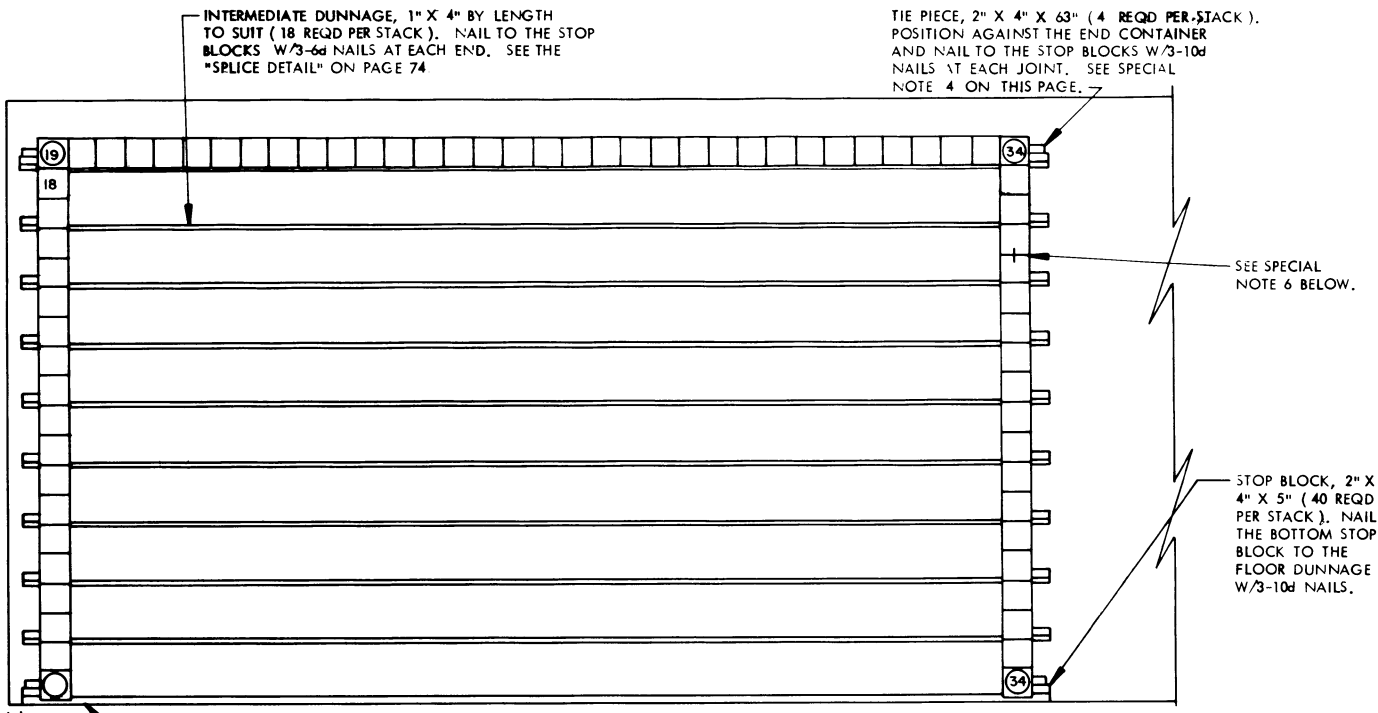
SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE PA95 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA95 SERIES CONTAINERS.
CONTAINER DIMENSIONS----25" LONG BY 7-1/8" WIDE BY 7-1/8" HIGH.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

(SPECIAL NOTES CONTINUED)

- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- NOTE: THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

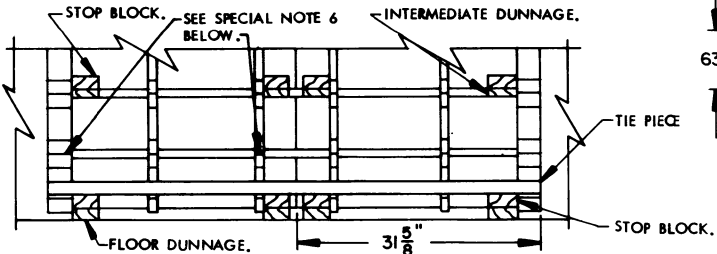
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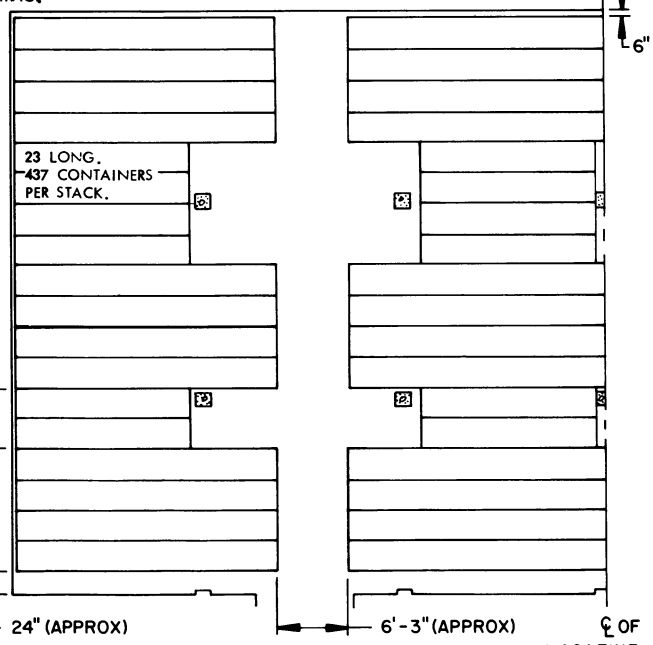
3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
 646 CONTAINERS PER STACK.
 20,748 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 34 LONG	1" X 4"	424	142
	2" X 4"	75	50
SINGLE STACK 23 LONG	1" X 4"	271	90
	2" X 4"	58	39
	NAILS	NO. REQD	POUNDS
SINGLE STACK 34 LONG	6d (2")	108	3/4
	10d (3")	36	3/4
SINGLE STACK 23 LONG	6d (2")	108	3/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
 (1/2 OF MAGAZINE)

SPECIAL NOTES:

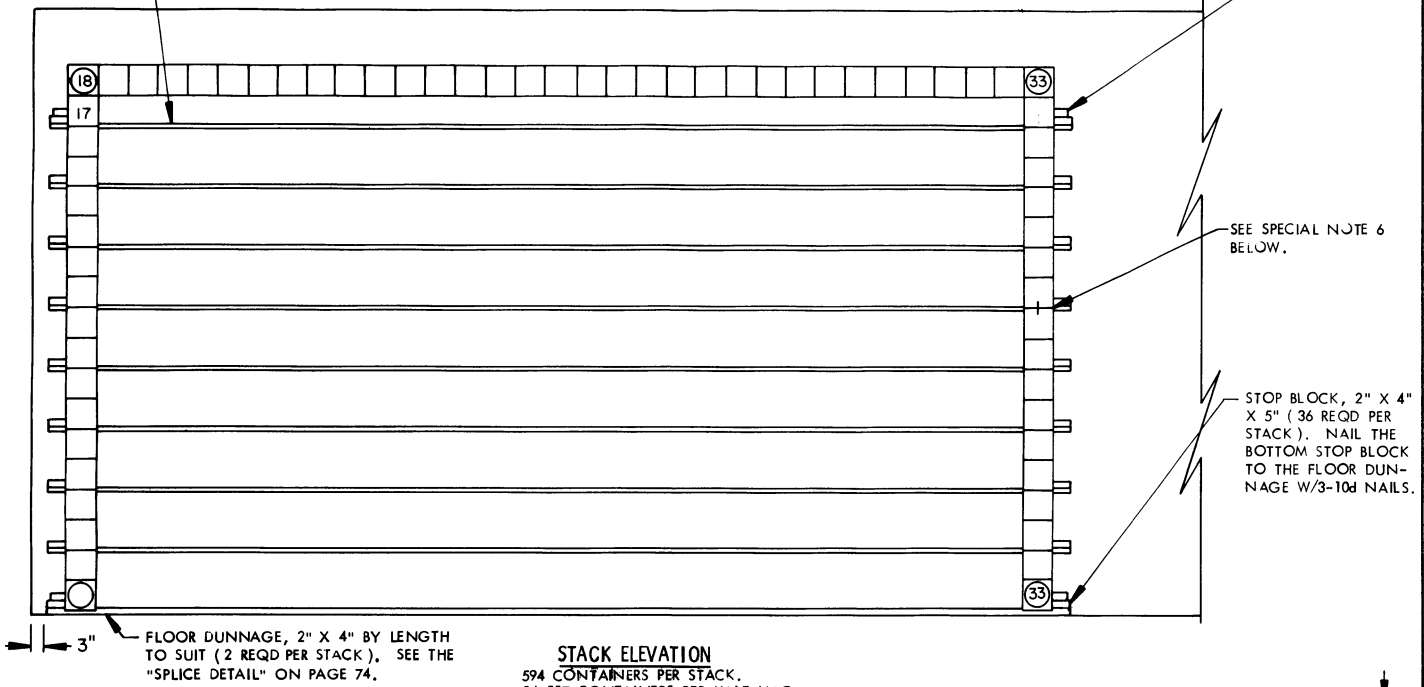
- STORAGE AS SHOWN IS FOR THE PA96 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA96 SERIES CONTAINERS.
 CONTAINER DIMENSIONS ----- 31-5/8" LONG BY 7-1/2" WIDE BY 7-1/2" HIGH.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE:** THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.
- NOTE:** JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.

(CONTINUED AT RIGHT)

- (SPECIAL NOTES CONTINUED)
- NOTE:** THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (16 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPLICE DETAIL" ON PAGE 74.

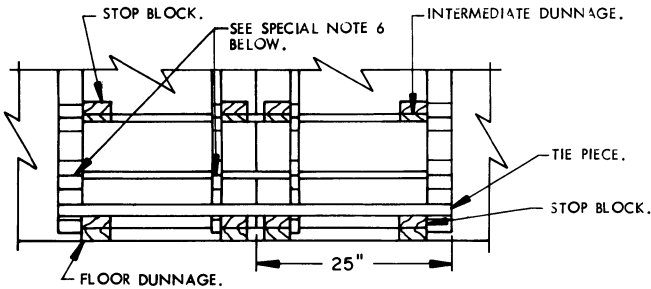
TIE PIECE, 2" X 4" X 50" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.



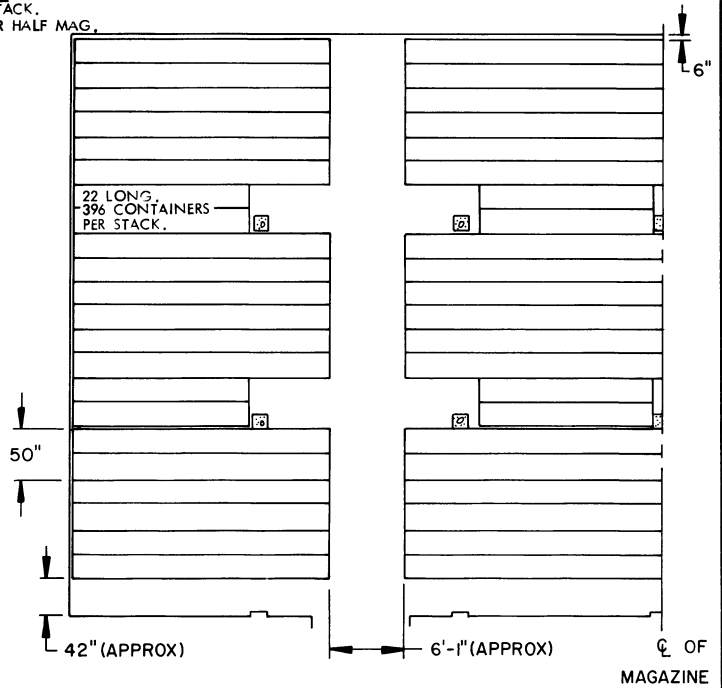
FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
594 CONTAINERS PER STACK.
24,557 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 33 LONG	1" X 4"	379	126
	2" X 4"	71	48
SINGLE STACK 22 LONG	1" X 4"	238	80
	2" X 4"	54	36
	NAILS	NO. REQD	POUNDS
SINGLE STACK 33 LONG	6d (2")	96	3/4
	10d (3")	36	3/4
SINGLE STACK 22 LONG	6d (2")	96	3/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE PA97 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA97 SERIES CONTAINERS.
CONTAINER DIMENSIONS----25" LONG BY 7-3/4" WIDE BY 7-3/4" HIGH.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE:** THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

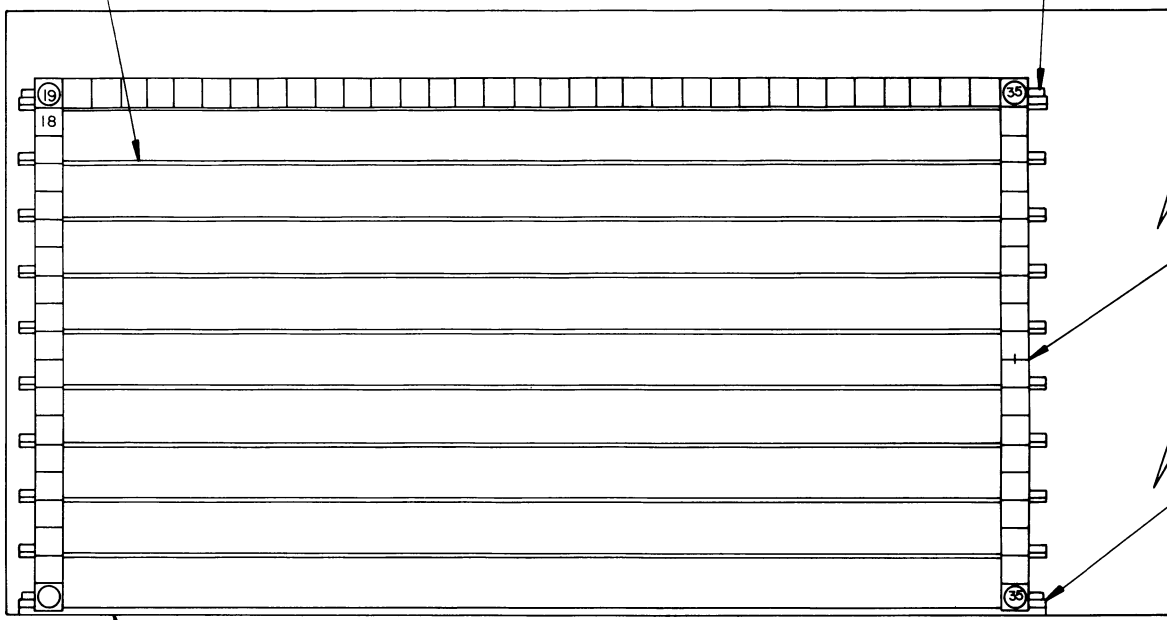
(SPECIAL NOTES CONTINUED)

- NOTE:** JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- NOTE:** THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

(CONTINUED AT RIGHT)

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (18 REQD PER STACK), NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 64" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.



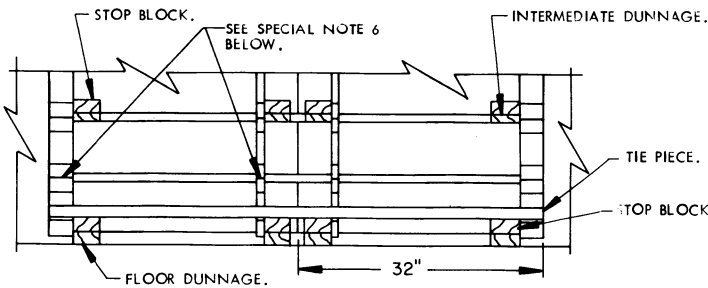
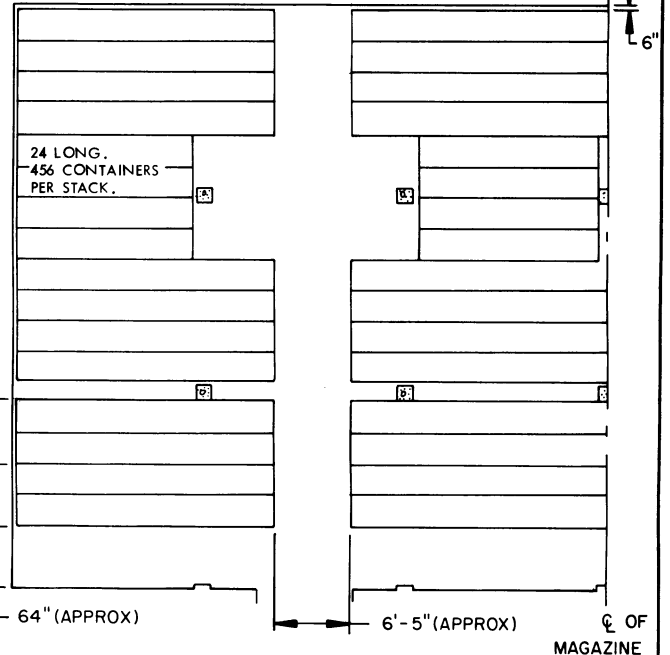
SEE SPECIAL NOTE 6 BELOW.

STOP BLOCK, 2" X 4" X 5" (40 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.

FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
665 CONTAINERS PER STACK.
19,608 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 35 LONG	1" X 4" 2" X 4"	423 75	141 50
SINGLE STACK 24 LONG	1" X 4" 2" X 4"	273 58	91 39
	NAILS	NO. REQD	POUNDS
SINGLE STACK 35 LONG	6d (2") 10d (3")	108 36	3/4 3/4
SINGLE STACK 24 LONG	6d (2") 10d (3")	108 36	3/4 3/4



PARTIAL END VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE PA99 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA99 SERIES CONTAINERS.
CONTAINER DIMENSIONS----32" LONG BY 7-1/4" WIDE BY 7-1/4" HIGH.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE:** THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

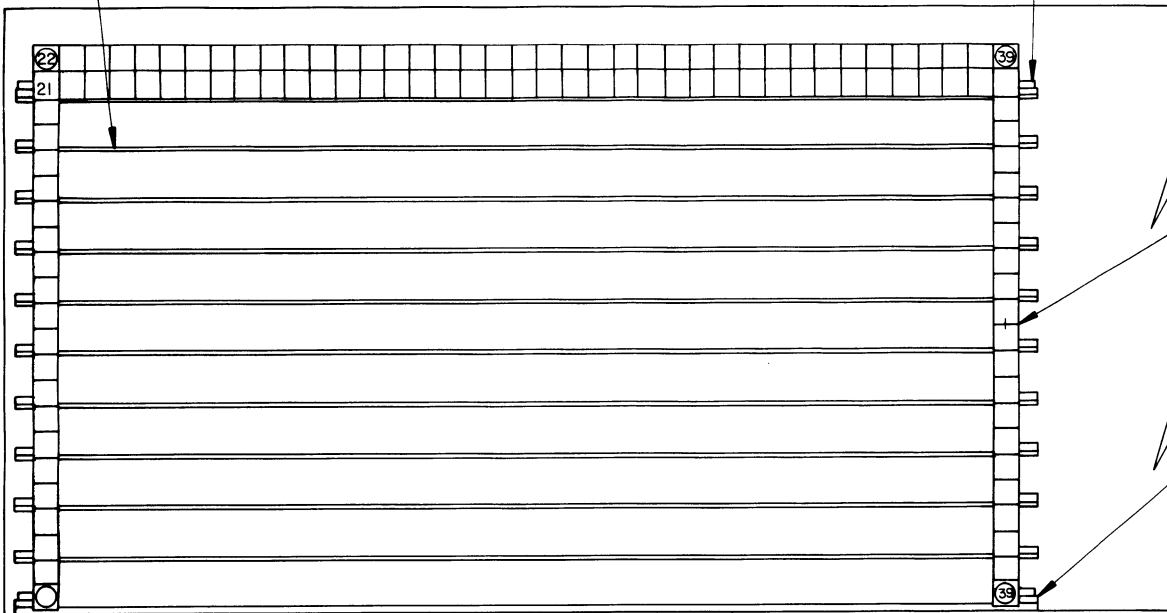
(SPECIAL NOTES CONTINUED)

- NOTE:** JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- NOTE:** THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

(CONTINUED AT RIGHT)

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (20 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 63" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.



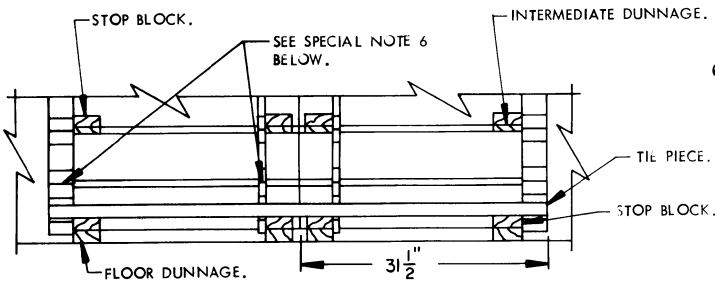
SEE SPECIAL NOTE 6 BELOW.

STOP BLOCK, 2" X 4" X 5" (44 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.

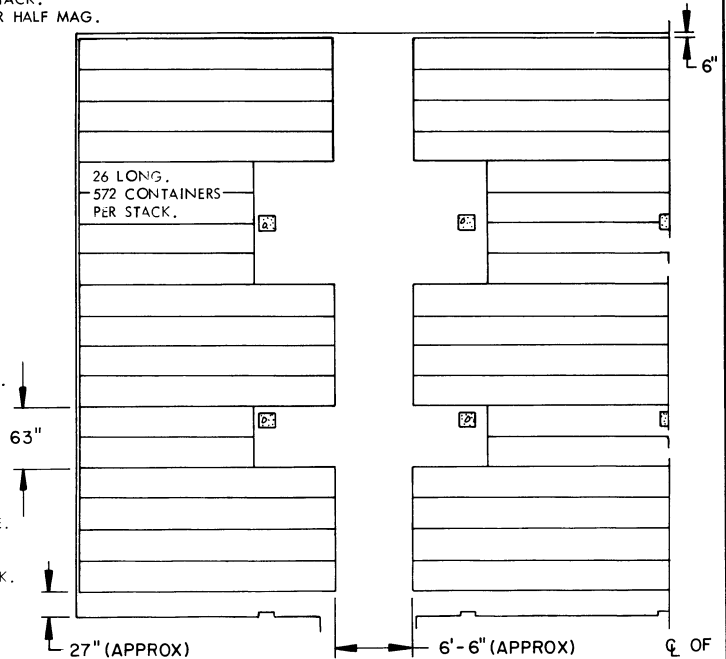
3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
858 CONTAINERS PER STACK.
27,456 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 39 LONG	1" X 4" 2" X 4"	425 87	142 58
SINGLE STACK 26 LONG	1" X 4" 2" X 4"	295 69	99 46
	NAILS	NO. REQD	POUNDS
SINGLE STACK 39 LONG	6d (2") 10d (3")	120 36	3/4 3/4
SINGLE STACK 26 LONG	6d (2") 10d (3")	120 36	3/4 3/4



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE PA100 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA100 SERIES CONTAINERS.
CONTAINER DIMENSIONS----31-1/2" LONG BY 6-1/2" WIDE BY 6-1/2" HIGH.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE:** THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

(CONTINUED AT RIGHT)

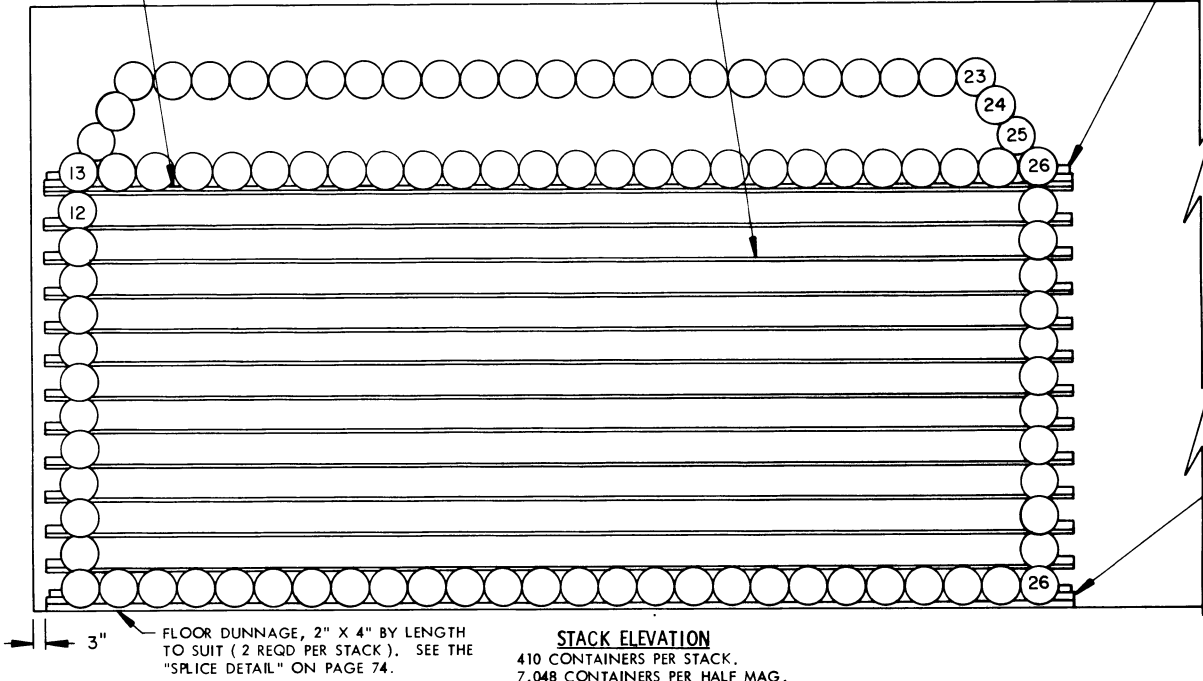
(SPECIAL NOTES CONTINUED)

- NOTE:** JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- NOTE:** THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

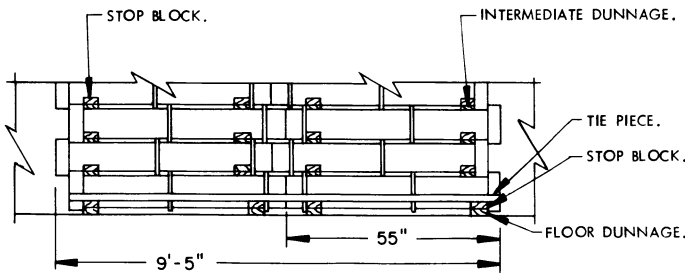
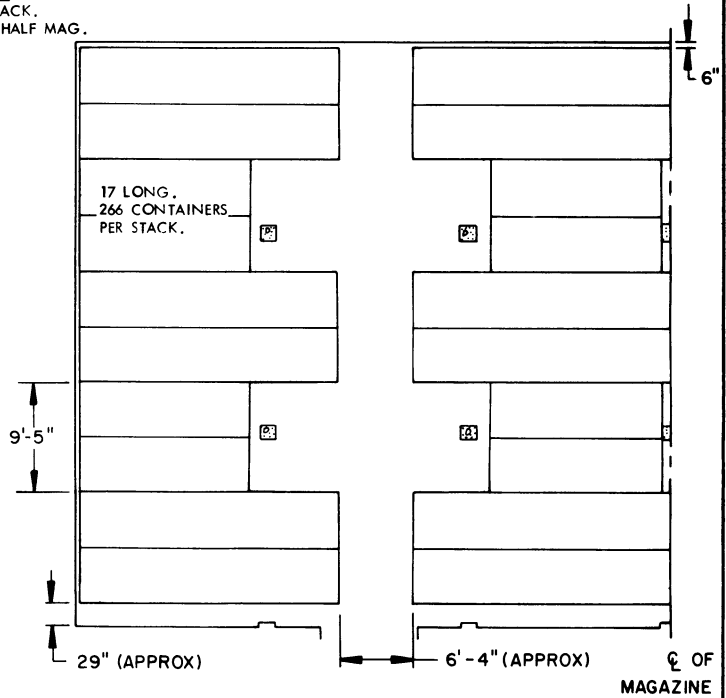
INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). NAIL THE FIRST PIECE TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/1-6d NAIL EVERY 12" AND CLINCH. SEE THE "SPlice DETAIL" ON PAGE 74.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (22 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 9'-2" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON THIS PAGE.



BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 26 LONG	1" X 4"	612	204
	2" X 4"	88	59
SINGLE STACK 17 LONG	1" X 4"	423	141
	2" X 4"	69	46
	NAILS	N.O. REQD	POUNDS
SINGLE STACK 26 LONG	6d (2")	188	1-1/2
	10d (3")	36	3/4
SINGLE STACK 17 LONG	6d (2")	172	1-1/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK

**PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)**

SPECIAL NOTES:

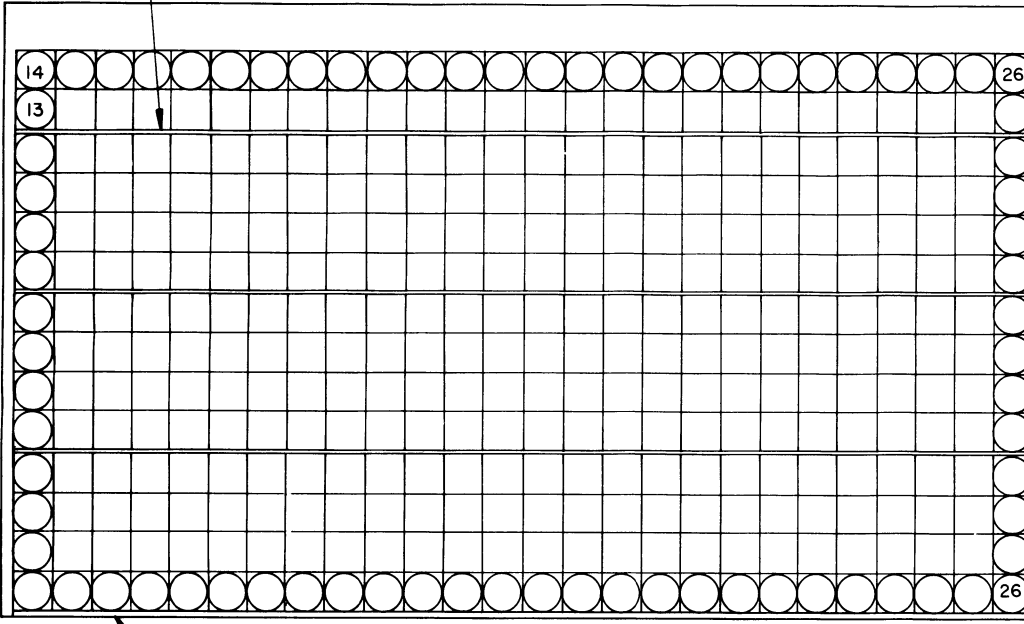
- STORAGE AS SHOWN IS FOR THE M460 CONTAINER W/O PROTECTIVE COVER. USE THIS SAME STORAGE FORMAT FOR ALL M460 SERIES CONTAINERS W/O PROTECTIVE COVER.
CONTAINER DIMENSIONS-----55" LONG BY 9-13/16 DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
- NOTE:** THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.

(SPECIAL NOTES CONTINUED)

- NOTE:** JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE INTERMEDIATE DUNNAGE POSITIONED IMMEDIATELY UNDER THE NESTED CONTAINERS AT THE TOP OF THE STACK WILL BE OF DOUBLE THICKNESS 1" X 4" MATERIAL.
- ALL CONTAINERS POSITIONED ABOVE LAYER THIRTEEN (13) ARE NESTED.

(CONTINUED AT RIGHT)

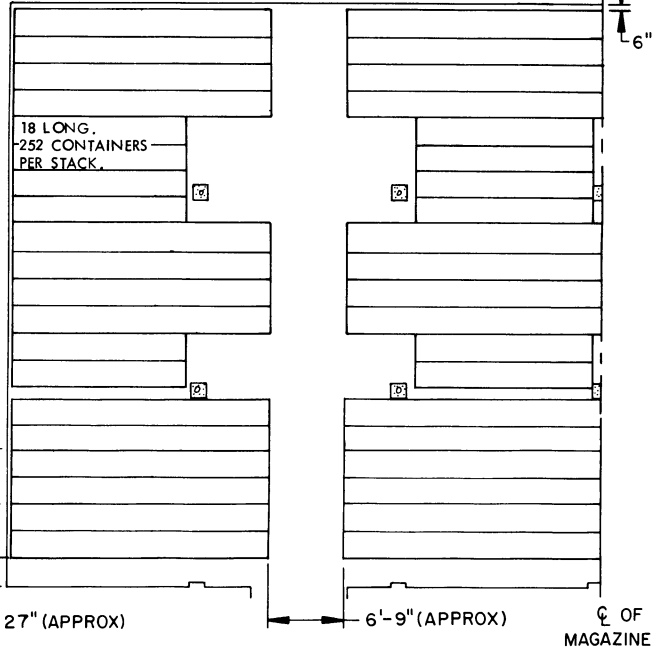
INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (6 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.



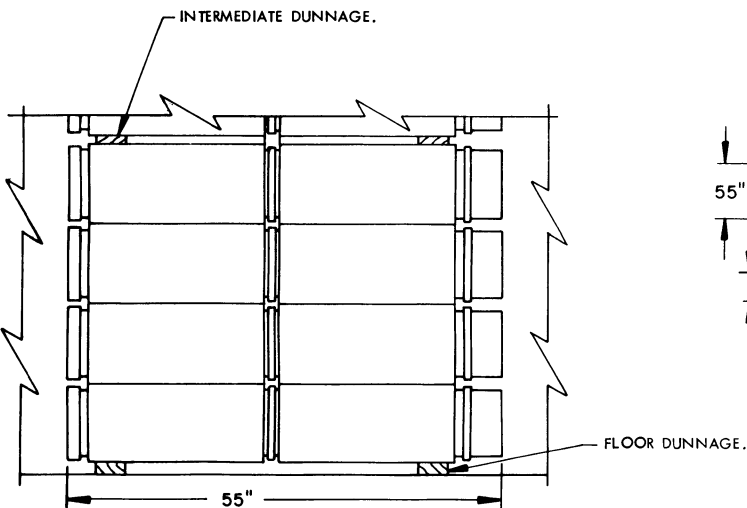
FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
 364 CONTAINERS PER STACK.
 6,608 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 26 LONG	1" X 4"	140	47
	2" X 4"	47	32
SINGLE STACK 18 LONG	1" X 4"	90	30
	2" X 4"	30	20



PLAN VIEW
 (1/2 OF MAGAZINE)



PARTIAL END VIEW OF STACK

SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE M460 CONTAINER WITH THE PROTECTIVE COVER. USE THIS SAME STORAGE FORMAT FOR ALL M460 SERIES CONTAINERS HAVING THE PROTECTIVE COVER.

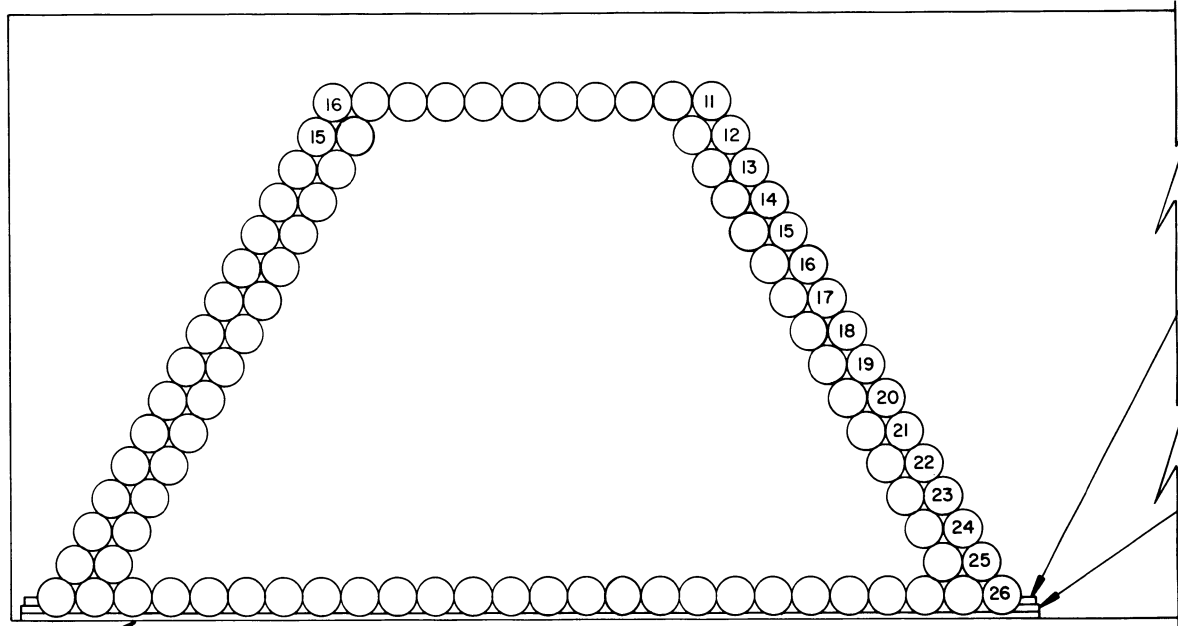
CONTAINER DIMENSIONS-----55" LONG BY 9-15/16" WIDE BY 9-15/16" HIGH.

2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.

(SPECIAL NOTES CONTINUED)

3. NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.

(CONTINUED AT RIGHT)



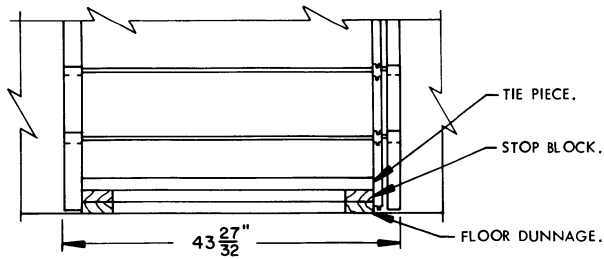
3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
 296 CARTRIDGE TANKS PER STACK.
 6,928 CARTRIDGE TANKS PER HALF MAG.

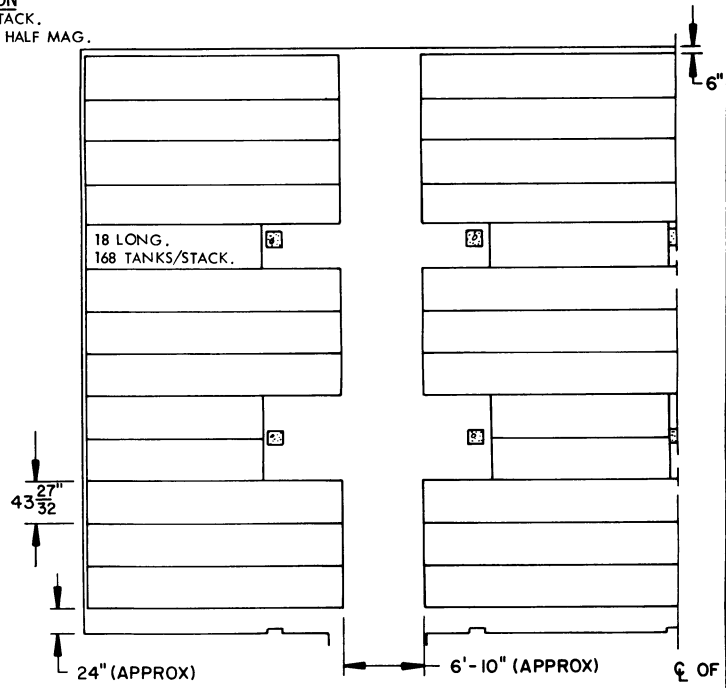
TIE PIECE, 2" X 4" X 38" (2 REQD PER STACK). POSITION AGAINST THE END TANK AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH END.

STOP BLOCK, 2" X 4" X 5" (4 REQD PER STACK). NAIL TO THE FLOOR DUNNAGE W/3-10d NAILS.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 26 LONG	2" X 4"	55	37
SINGLE STACK 18 LONG	2" X 4"	39	26
	NAILS	NO. REQD	POUNDS
SINGLE STACK 26 LONG	10d (3")	24	1/2
SINGLE STACK 18 LONG	10d (3")	24	1/2



PARTIAL END VIEW OF STACK



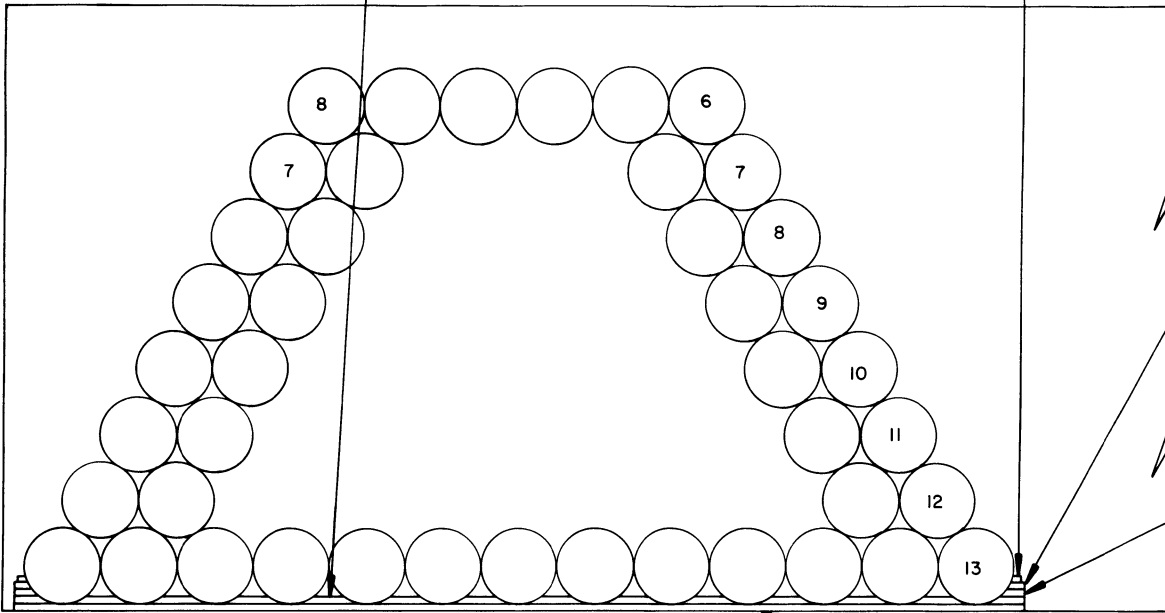
PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE MK4 CARTRIDGE TANK FOR 6"/47. USE THIS SAME STORAGE FORMAT FOR ALL MK4 CARTRIDGE TANK MODS.
 TANK DIMENSIONS-----43-27/32" LONG BY 9-21/32" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF TANKS PER LAYER IN A STACK.
- NOTE:** JOINTS IN FLOOR DUNNAGE MUST BE STAGGERED.

FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). LAMINATE THE SECOND PIECE TO THE FIRST W/1-10d NAIL EVERY 24". SEE THE "SPLICE DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 48" (2 REQD PER STACK). POSITION AGAINST THE END TANK AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH END.



TOP STOP BLOCK, 2" X 4" X 5" (4 REQD PER STACK). NAIL TO THE BOTTOM STOP BLOCK W/3-10d NAILS.

BOTTOM STOP BLOCK, 2" X 4" X 6-1/2" (4 REQD PER STACK). NAIL TO THE FLOOR DUNNAGE W/3-10d NAILS.

STACK ELEVATION

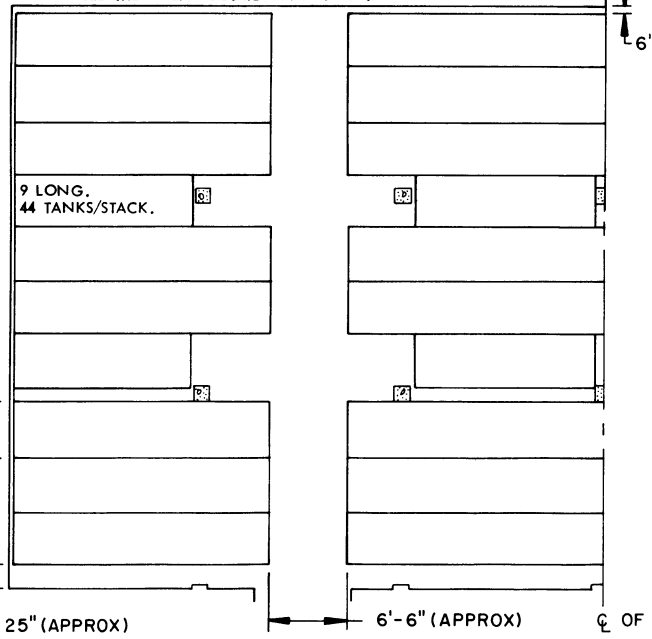
76 POWDER TANKS PER STACK.
1,392 POWDER TANKS PER HALF MAG.

FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). LAMINATE THE SECOND PIECE TO THE FIRST W/1-10d NAIL EVERY 24". SEE THE "SPLICE DETAIL" ON PAGE 74.

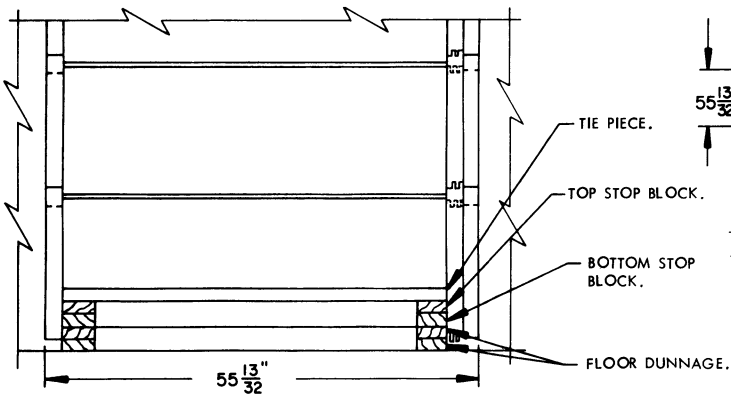
3"

BILL OF MATERIAL (PER STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 13 LONG	2" X 4"	106	71
SINGLE STACK 9 LONG	2" X 4"	73	49
	NAILS	NO. REQD	POUNDS
SINGLE STACK 13 LONG	10d (3")	56	1
SINGLE STACK 9 LONG	10d (3")	50	1



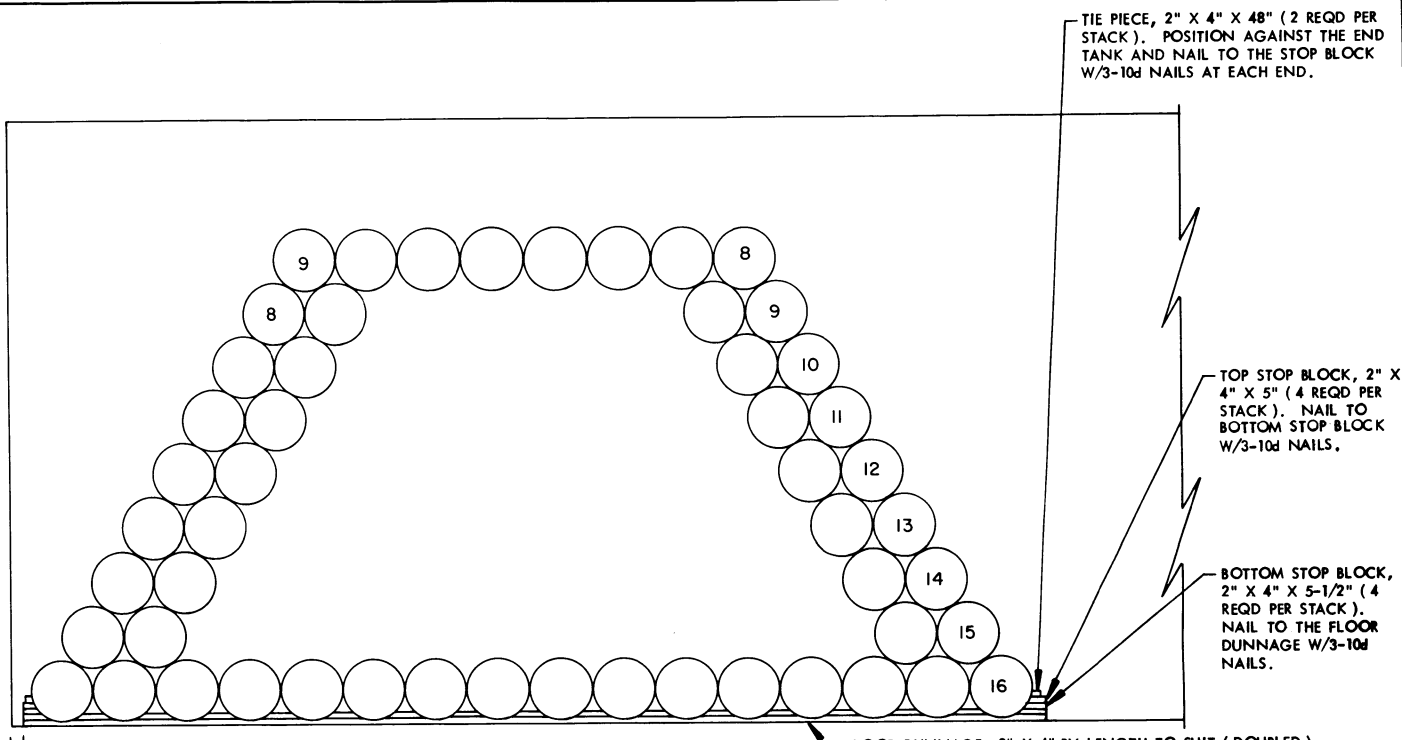
PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)



PARTIAL END VIEW OF STACK

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE MK IV POWDER TANK FOR 16"/50. USE THIS SAME STORAGE FORMAT FOR ALL MK IV POWDER TANK MODS.
TANK DIMENSIONS-----55-13/32" LONG BY 19-1/2" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF TANKS PER LAYER IN A STACK.
- NOTE: JOINTS IN FLOOR DUNNAGE MUST BE STAGGERED.

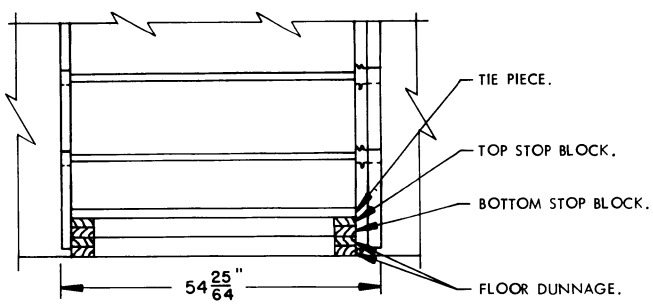


STACK ELEVATION

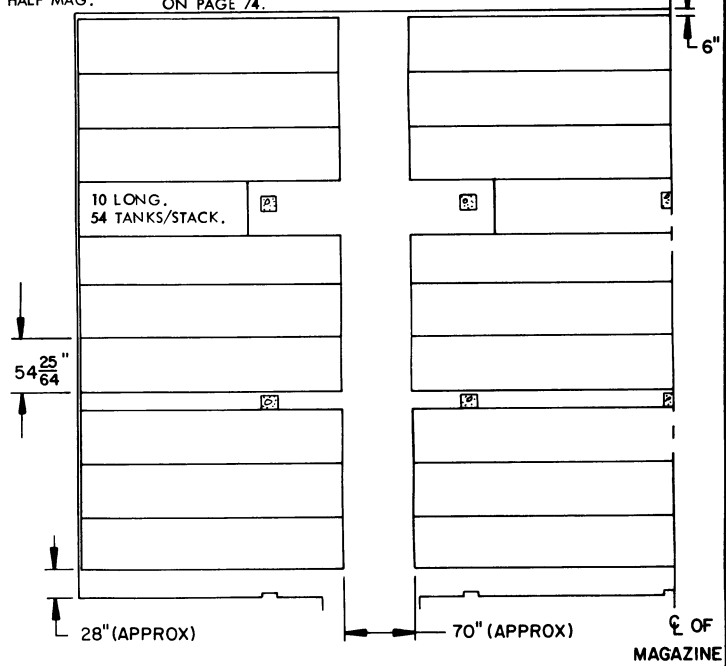
108 POWDER TANKS PER STACK.
2,052 POWDER TANKS PER HALF MAG.

FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (DOUBLED)
(2 REQD PER STACK). LAMINATE THE SECOND PIECE TO THE
FIRST W/1-10d NAIL EVERY 24". SEE THE "SPLICE DETAIL"
ON PAGE 74.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 16 LONG	2" X 4"	108	72
SINGLE STACK 10 LONG	2" X 4"	69	46
	NAILS	NO. REQD	POUNDS
SINGLE STACK 16 LONG	10d (3")	58	1
SINGLE STACK 10 LONG	10d (3")	50	1



PARTIAL END VIEW OF STACK

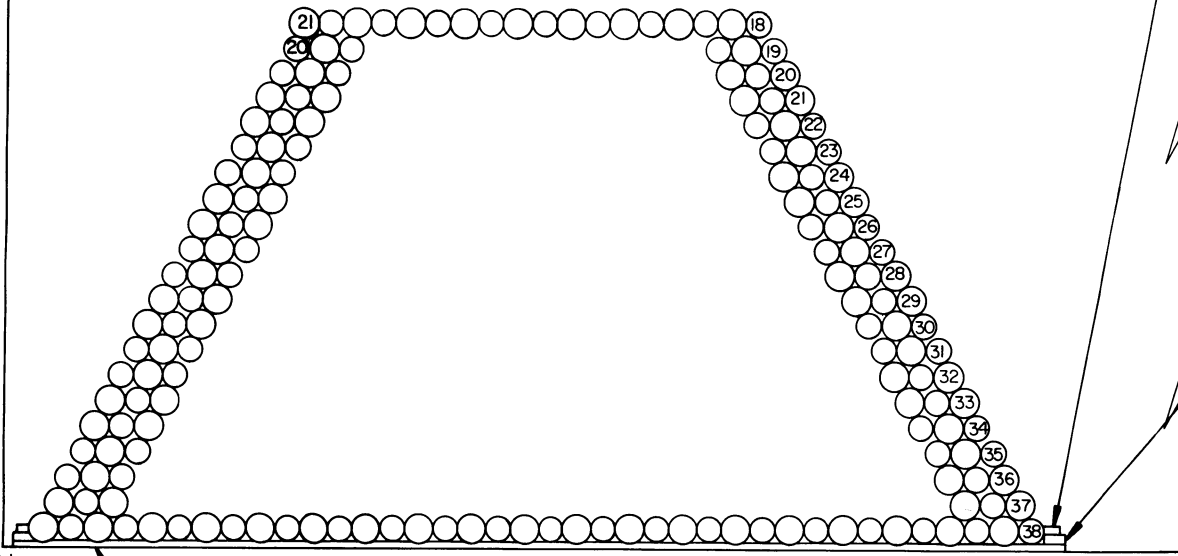


PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE MK8, MOD. 0 POWDER TANK FOR 16". USE THIS SAME STORAGE FORMAT FOR ALL MK8 POWDER TANK MODS.
TANK DIMENSIONS-----54-25/64" LONG BY 16-1/4" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF TANKS PER LAYER IN A STACK.
- NOTE: JOINTS IN FLOOR DUNNAGE MUST BE STAGGERED.

TIE PIECE, 2" X 4" X 21"
(2 REQD PER STACK).
POSITION AGAINST THE
END TANK AND NAIL
TO THE STOP BLOCKS
W/3-10d NAILS AT EACH
END.

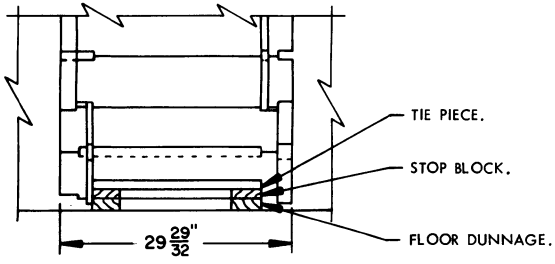


STOP BLOCK, 2" X
4" X 5" (4 REQD PER
STACK). NAIL TO
THE FLOOR DUN-
NAGE W/3-10d
NAILS.

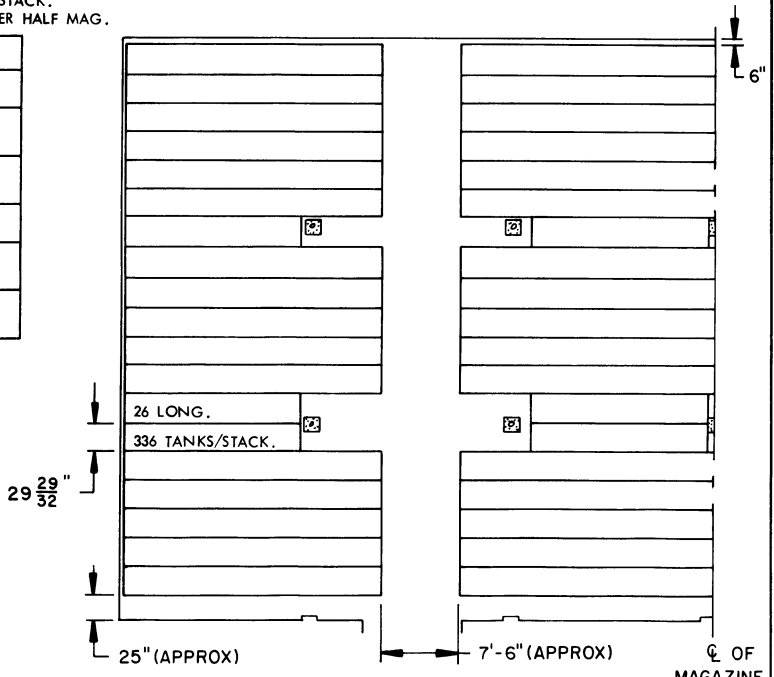
3" FLOOR DUNNAGE, 2" X 4" BY LENGTH
TO SUIT (2 REQD PER STACK). SEE THE
"SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
588 TANKS PER STACK.
20,832 TANKS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 38 LONG	2" X 4"	53	35
SINGLE STACK 26 LONG	2" X 4"	31	21
	NAILS	NO. REQD	POUNDS
SINGLE STACK 38 LONG	10d (3")	24	1/2
SINGLE STACK 26 LONG	10d (3")	24	1/2



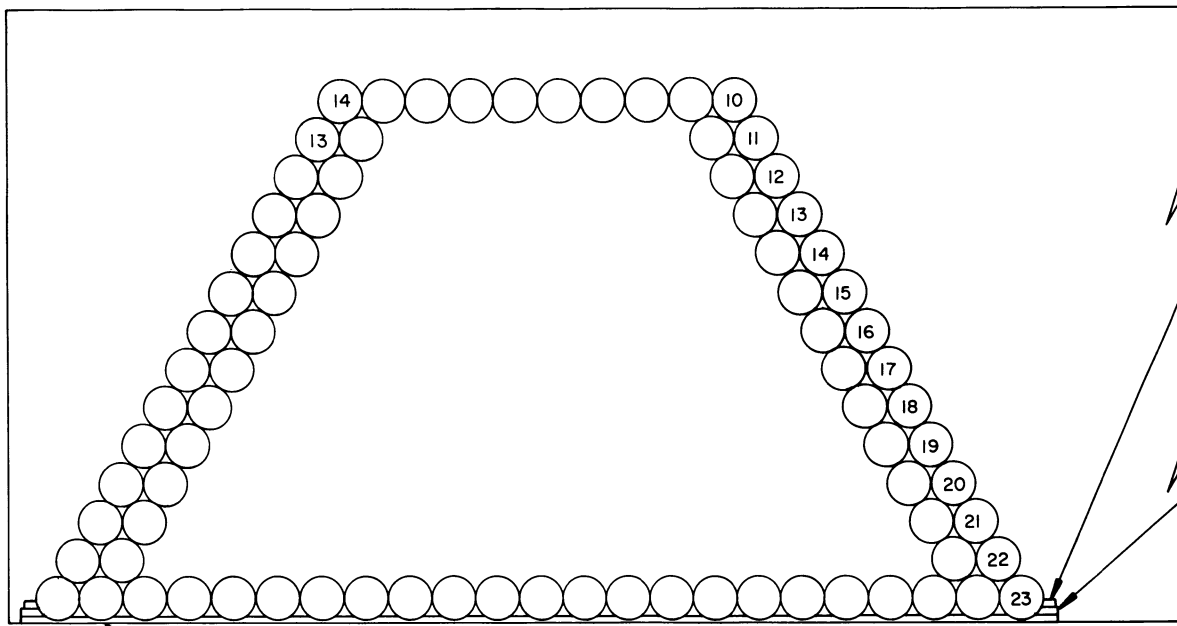
PARTIAL END VIEW OF STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE MK9, MOD. 1 AND MK15, MOD. 1 CARTRIDGE TANKS FOR 5"/38. USE THIS SAME STORAGE FORMAT FOR ALL MK9 AND MK15 CARTRIDGE TANK MODS.
TANK DIMENSIONS-----29-29/32" LONG BY 7-15/32" DIAMETER.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CARTRIDGE TANKS PER LAYER IN A STACK.
3. NOTE: JOINTS IN FLOOR DUNNAGE MUST BE STAGGERED.



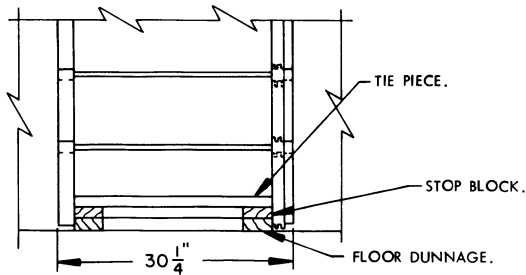
FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
231 CONTAINERS PER STACK.
7,924 CONTAINERS PER HALF MAG.

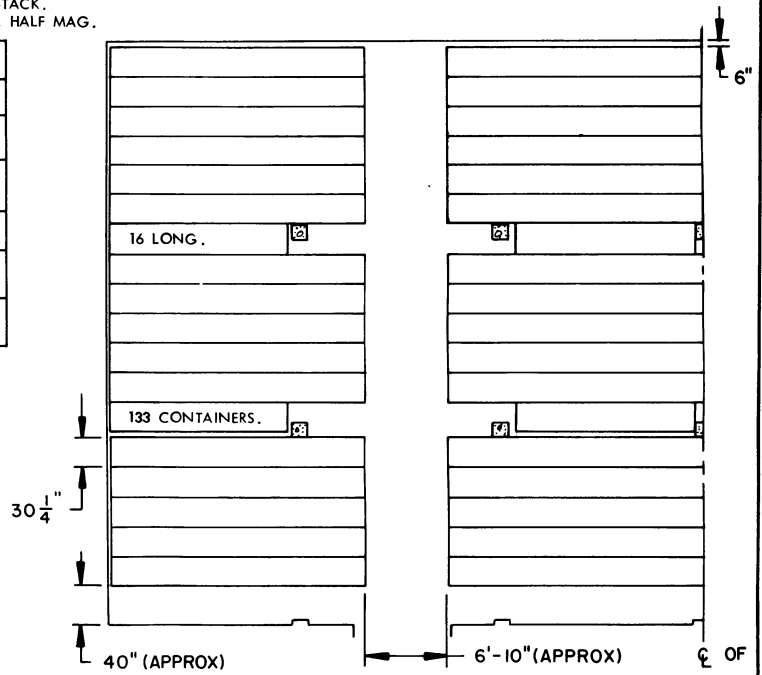
TIE PIECE, 2" X 4" X 25" (2 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH END.

STOP BLOCK, 2" X 4" X 5" (4 REQD PER STACK). NAIL TO THE FLOOR DUNNAGE W/3-10d NAILS.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 23 LONG	2" X 4"	53	36
SINGLE STACK 16 LONG	2" X 4"	37	25
	NAILS	NO. REQD	POUNDS
SINGLE STACK 23 LONG	10d (3")	24	1/2
SINGLE STACK 16 LONG	10d (3")	24	1/2



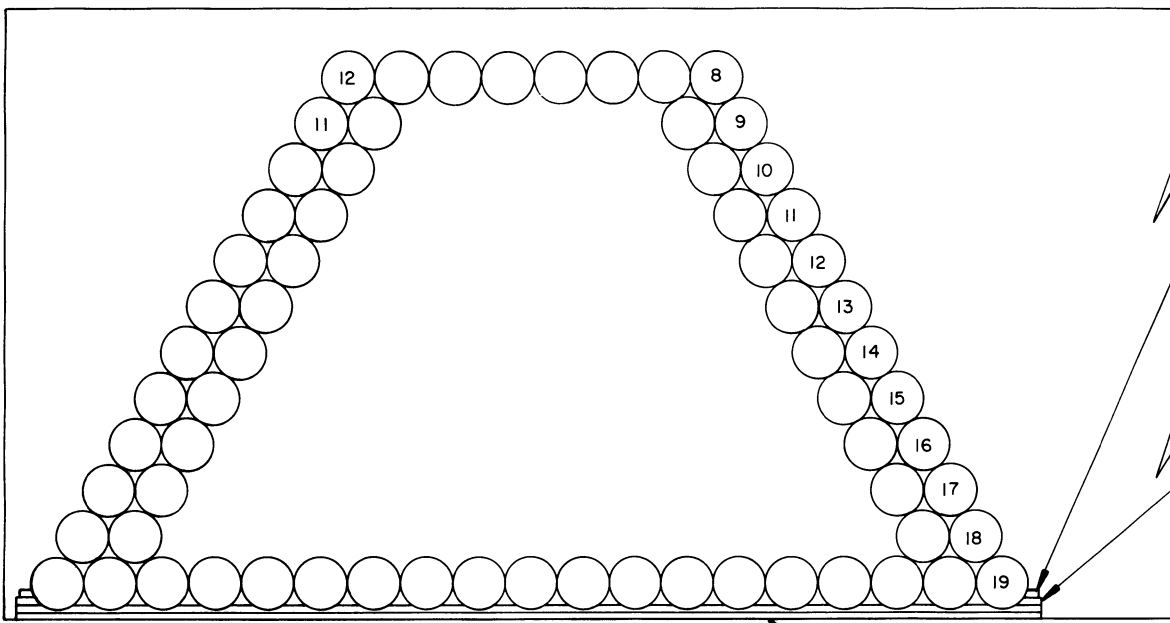
PARTIAL END VIEW OF STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE MK10, MOD. 1 POWDER TANK FOR 8"/55. USE THIS SAME STORAGE FORMAT FOR ALL MK10 POWDER TANK MODS.
TANK DIMENSIONS-----30-1/4" LONG BY 10-59/64" DIAMETER.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF POWDER TANKS PER LAYER IN A STACK.
3. NOTE: JOINTS IN FLOOR DUNNAGE MUST BE STAGGERED.



TIE PIECE, 2" X 4" X 45" (2 REQD PER STACK). POSITION AGAINST THE END TANK AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH END.

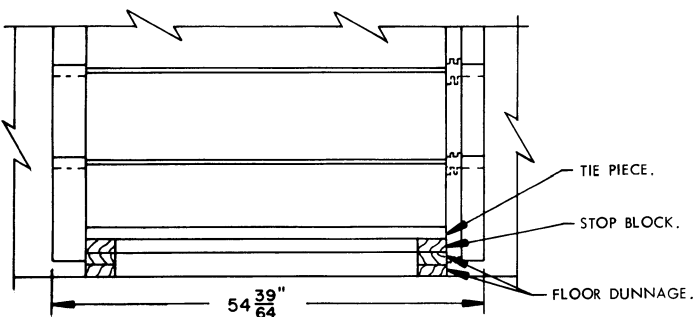
STOP BLOCK, 2" X 4" X 5" (4 REQD PER STACK). NAIL TO THE FLOOR DUNNAGE W/3-10d NAILS.

STACK ELEVATION

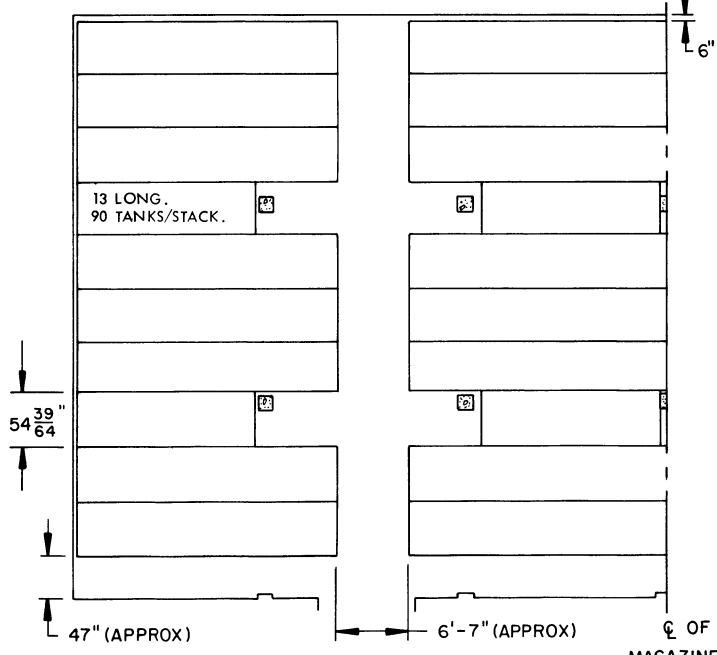
162 CARTRIDGE TANKS PER STACK.
2,952 CARTRIDGE TANKS PER HALF MAG.

FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (DOUBLED) (2 REQD PER STACK). LAMINATE THE SECOND PIECE TO THE FIRST W/1-10d NAIL EVERY 24". SEE THE "SPlice DETAIL" ON PAGE 74.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 19 LONG	2" X 4"	103	69
SINGLE STACK 13 LONG	2" X 4"	70	47
	NAILS	NO. REQD	POUNDS
SINGLE STACK 19 LONG	10d (3")	44	3/4
SINGLE STACK 13 LONG	10d (3")	38	3/4



PARTIAL END VIEW OF STACK

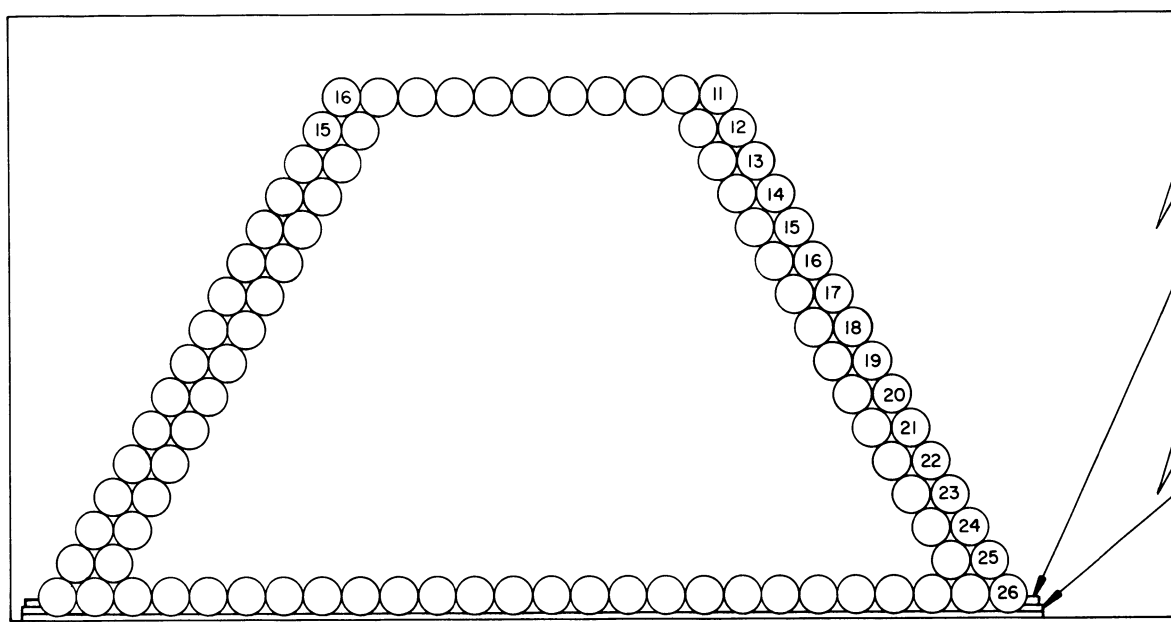


PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE MK11, MOD. 0 AND MK13, MOD. 0 CARTRIDGE TANKS FOR 8"/55. USE THIS SAME STORAGE FORMAT FOR ALL MK11 AND MK13 CARTRIDGE TANK MODS.

TANK DIMENSIONS-----54-39/64" LONG BY 13-5/16" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF TANKS PER LAYER IN A STACK.
- NOTE:** JOINTS IN FLOOR DUNNAGE MUST BE STAGGERED.



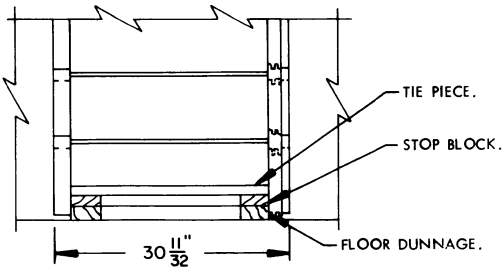
TIE PIECE, 2" X 4" X 24" (2 REQD PER STACK). POSITION AGAINST THE END TANK AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH END.

STOP BLOCK, 2" X 4" X 5" (4 REQD PER STACK). NAIL TO THE FLOOR DUNNAGE W/3-10d NAILS.

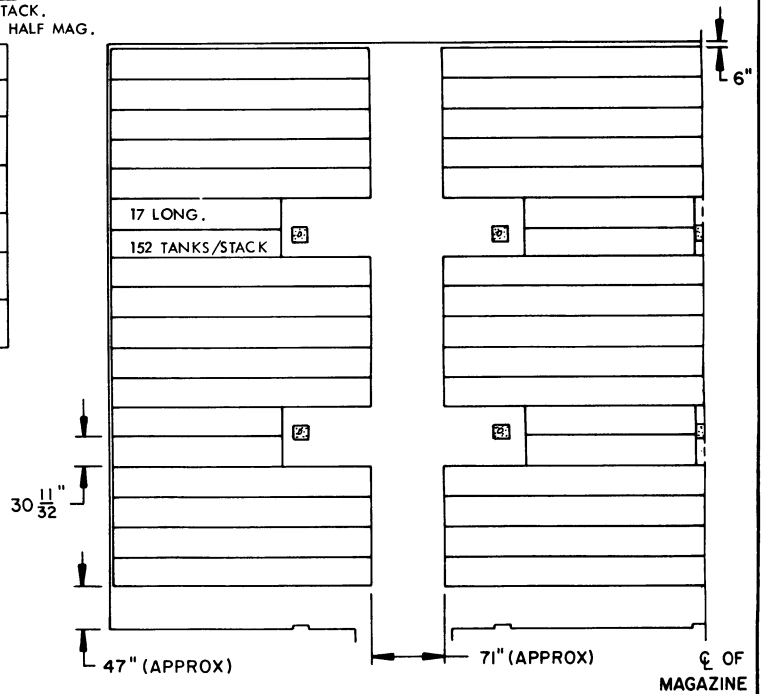
3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
 296 POWDER TANKS PER STACK.
 9,504 POWDER TANKS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 26 LONG	2" X 4"	53	36
SINGLE STACK 17 LONG	2" X 4"	35	24
	NAILS	NO. REQD	POUNDS
SINGLE STACK 26 LONG	10d (3")	24	1/2
SINGLE STACK 17 LONG	10d (3")	24	1/2



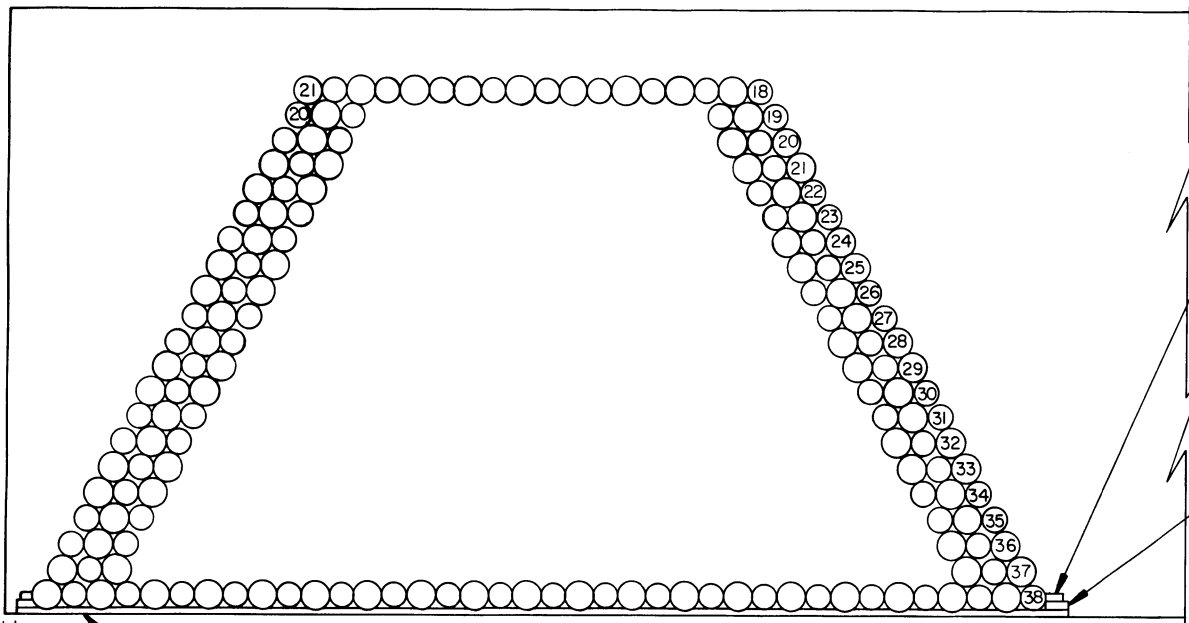
PARTIAL END VIEW OF STACK



PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE ONE-HALF REDUCED CHARGE IN THE MK13, MOD.. 0 POWDER TANK FOR 8"/55. USE THIS SAME STORAGE FORMAT FOR ALL MK13 POWDER TANK MODS.
 POWDER TANK DIMENSIONS-----30-11/32" LONG BY 9-7/8" DIAMETER.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF TANKS PER LAYER IN A STACK.
3. NOTE: JOINTS IN FLOOR DUNNAGE MUST BE STAGGERED.



TIE PIECE, 2" X 4" X 27" (2 REQD PER STACK). POSITION AGAINST THE END TANK AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH END.

STOP BLOCK, 2" X 4" X 5" (4 REQD PER STACK). NAIL TO THE FLOOR DUNNAGE W/3-10d NAILS.

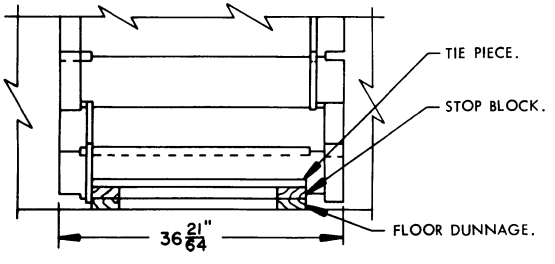
STACK ELEVATION

588 CARTRIDGE TANKS PER STACK.
16,632 CARTRIDGE TANKS PER HALF MAG.

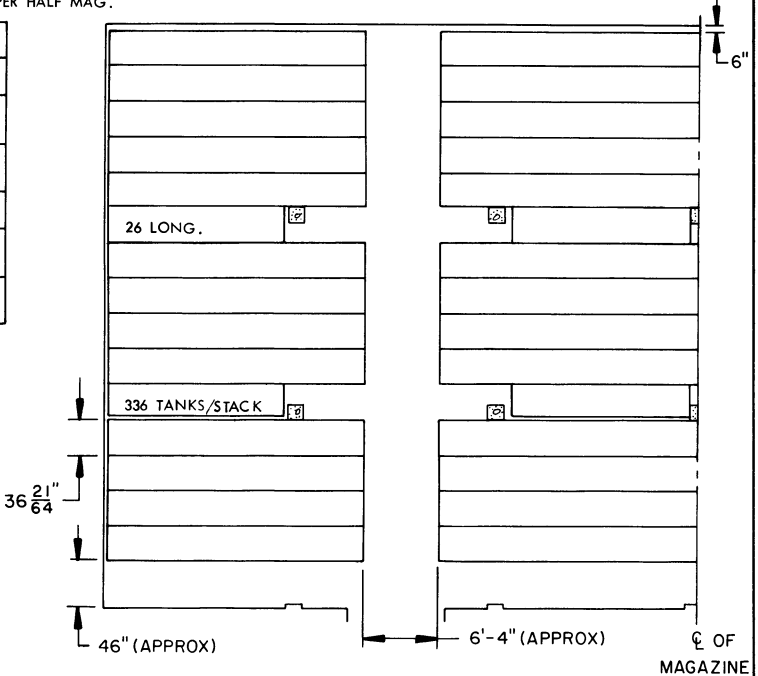
3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD). SEE THE "SPLICE DETAIL" ON PAGE 74.

BILL OF MATERIAL (PER STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 38 LONG	2" X 4"	54	36
SINGLE STACK 26 LONG	2" X 4"	37	25
	NAILS	NO. REQD	POUNDS
SINGLE STACK 38 LONG	10d (3")	24	1/2
SINGLE STACK 26 LONG	10d (3")	24	1/2



PARTIAL END VIEW OF STACK



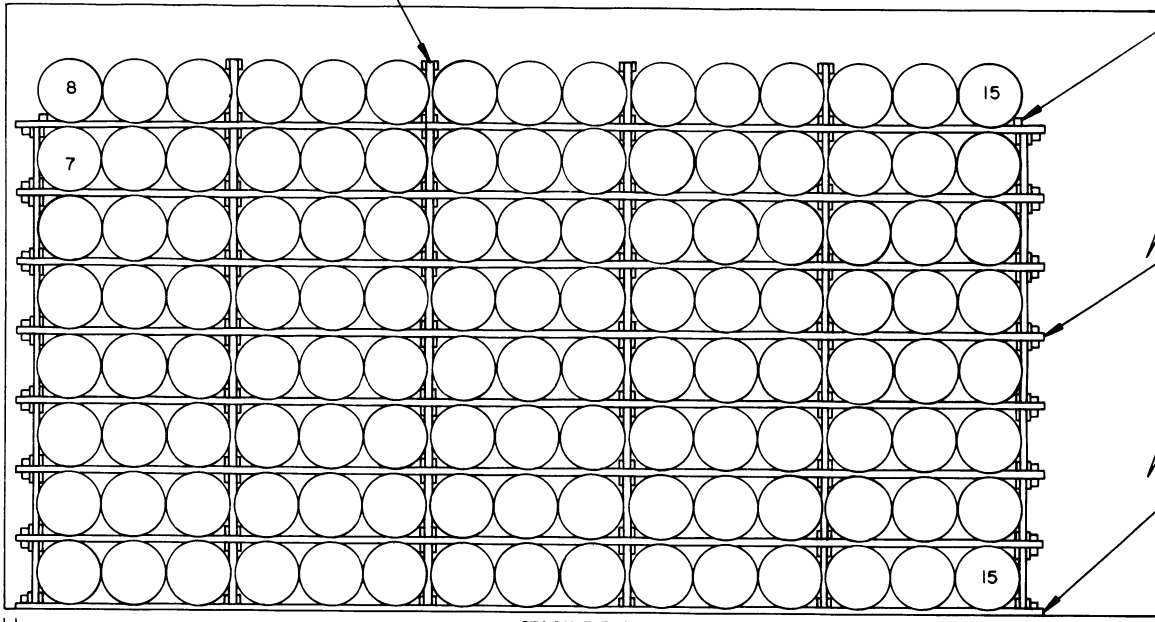
PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE MK14, MOD. 1 AND MK21, MOD. 0 CARTRIDGE TANKS FOR 5¹/54. USE THIS SAME STORAGE FORMAT FOR ALL MK14 AND MK21 CARTRIDGE TANK MODS.
TANK DIMENSIONS-----36-21/64" LONG BY 7-15/32" DIAMETER.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF TANKS PER LAYER IN A STACK.
3. NOTE: JOINTS IN FLOOR DUNNAGE MUST BE STAGGERED.

SEPARATOR ASSEMBLY (46 REQD PER STACK). SEE THE "SEPARATOR ASSEMBLY A" DETAIL ON PAGE 74.

TIE PIECE, 2" X 2" X 44" (30 REQD PER STACK). POSITION AS SHOWN AND NAIL TO INTERMEDIATE DUNNAGE OR FLOOR DUNNAGE W/2-10d NAILS AT EACH JOINT.



INTERMEDIATE DUNNAGE, 2" X 4" BY CUT TO EXTEND 1" BEYOND THE TIE PIECE (14 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

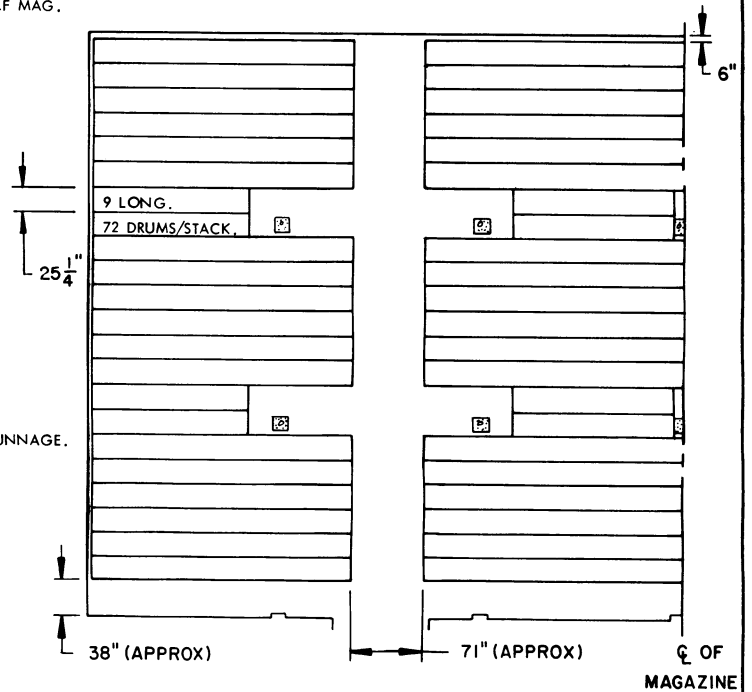
FLOOR DUNNAGE, 2" X 4" BY CUT TO EXTEND 1" BEYOND THE TIE PIECE (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION

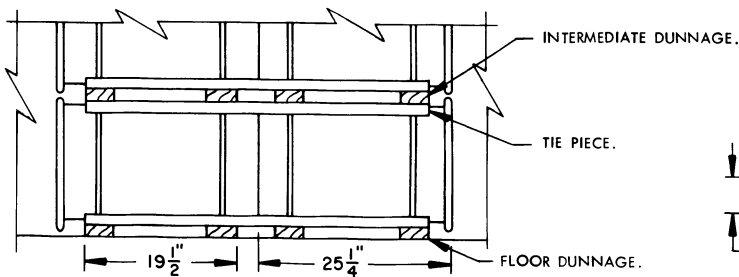
120 DRUMS PER STACK.
4,896 DRUMS PER HALF MAG.

BILL OF MATERIAL (PER STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 15 LONG	1" X 3"	299	75
	2" X 2"	55	19
	2" X 4"	504	336
SINGLE STACK 9 LONG	1" X 3"	195	49
	2" X 2"	55	19
	2" X 4"	297	198
	NAILS	NO. REQD	POUNDS
SINGLE STACK 15 LONG	6d (2")	736	4-1/2
	10d (3")	120	2
SINGLE STACK 9 LONG	6d (2")	480	3
	10d (3")	120	2



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)



PARTIAL END VIEW OF DOUBLE STACK

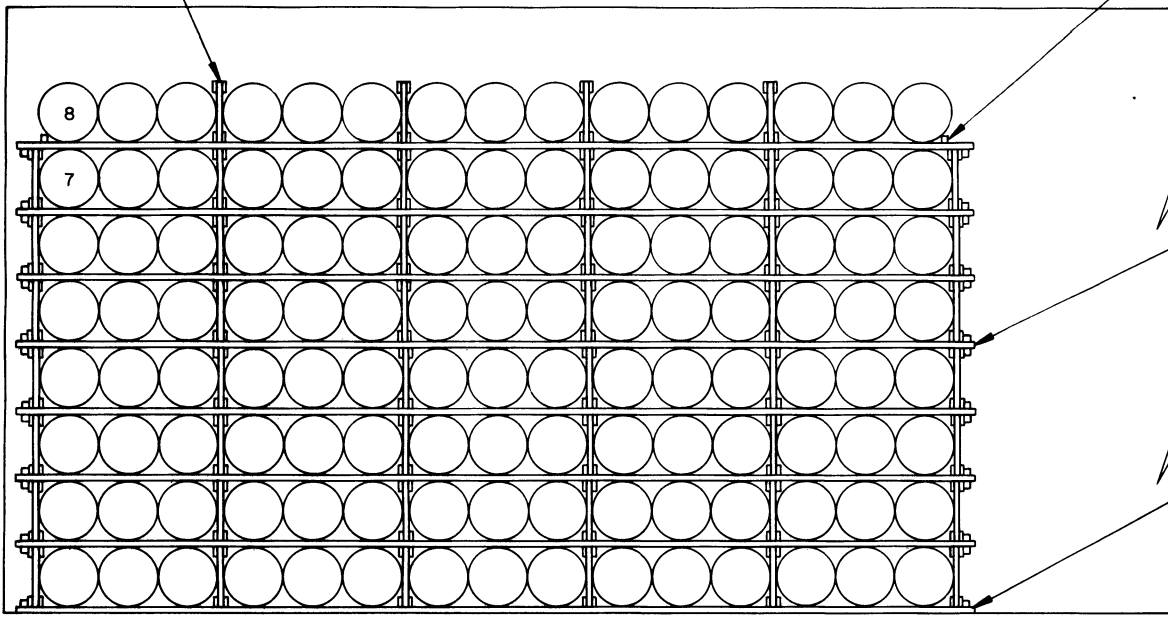
SEPARATOR ASSEMBLY A HAS BEEN OMITTED FROM EACH LAYER FOR CLARITY. SEE PAGE 74 FOR THE DETAIL.

SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR PROPELLING CHARGES FOR THE 105MM HOWITZER PACKED IN METAL DRUM.
DRUM DIMENSIONS-----25-1/4" LONG BY 16-7/8" DIAMETER.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF DRUMS PER LAYER IN A STACK.
3. STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
4. JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.

SEPARATOR ASSEMBLY (46 REQD PER STACK). SEE THE "SEPARATOR ASSEMBLY B DETAIL" ON PAGE 74.

TIE PIECE, 2" X 2" X 48" (30 REQD PER STACK). POSITION AS SHOWN AND NAIL TO INTERMEDIATE DUNNAGE OR FLOOR DUNNAGE W/2-10d NAILS AT EACH JOINT.



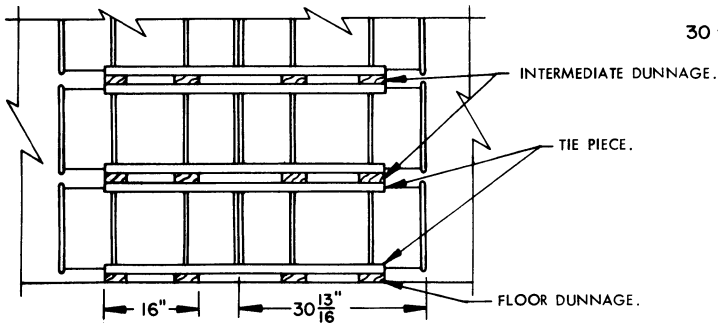
INTERMEDIATE DUNNAGE, 2" X 4" BY CUT TO EXTEND 1" BEYOND THE TIE PIECE (14 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

FLOOR DUNNAGE, 2" X 4" BY CUT TO EXTEND 1" BEYOND THE TIE PIECES (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

STACK ELEVATION
120 DRUMS PER STACK.
4,224 DRUMS PER HALF MAG.

BILL OF MATERIAL (PER STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 15 LONG	1" X 3"	246	62
	2" X 2"	60	20
	2" X 4"	462	309
SINGLE STACK 11 LONG	1" X 3"	203	51
	2" X 2"	60	20
	2" X 4"	334	223
	NAILS	NO. REQD	POUNDS
SINGLE STACK 15 LONG	6d (2")	736	4-1/2
	10d (3")	120	2
SINGLE STACK 11 LONG	6d (2")	608	3-3/4
	10d (3")	120	2

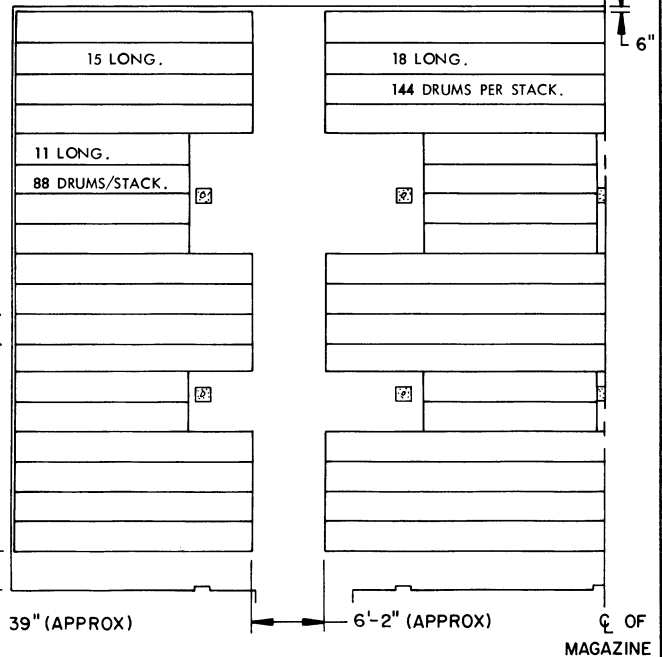


PARTIAL END VIEW OF DOUBLE STACK

SEPARATOR ASSEMBLY B HAS BEEN OMITTED FROM EACH LAYER FOR CLARITY. SEE THE DETAIL ON PAGE 74.

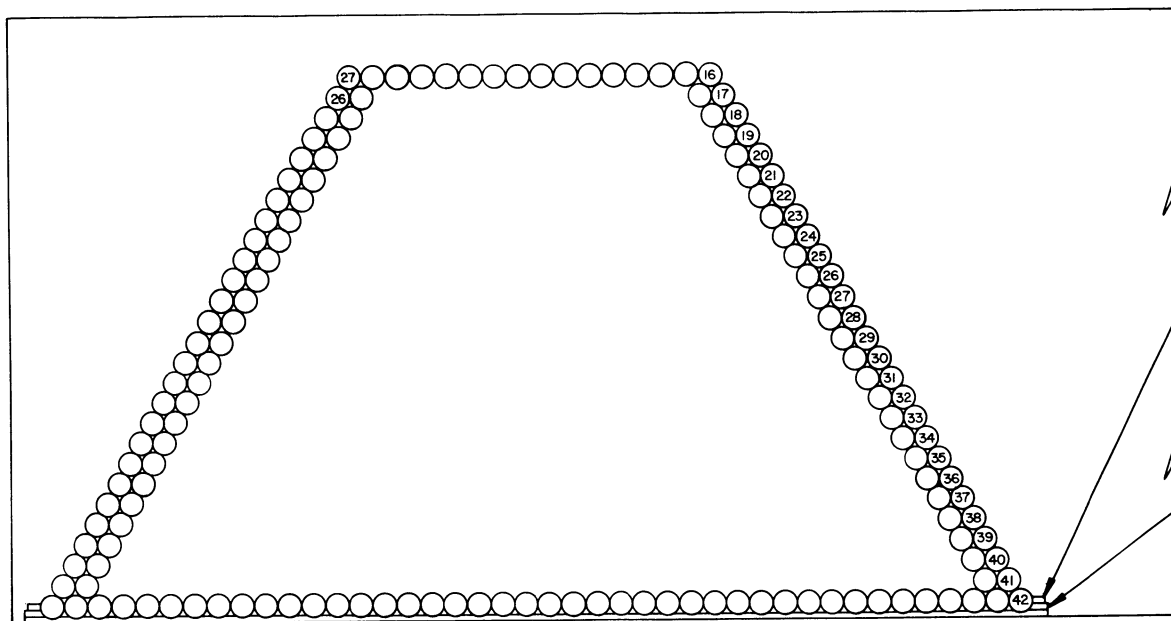
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE PROPELLING CHARGES FOR THE 75MM AND 105MM HOWITZER PACKED IN METAL DRUM.
DRUM DIMENSIONS-----30-13/16" LONG BY 15" DIAMETER.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF DRUMS PER LAYER IN A STACK.
3. STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
4. JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

OF MAGAZINE

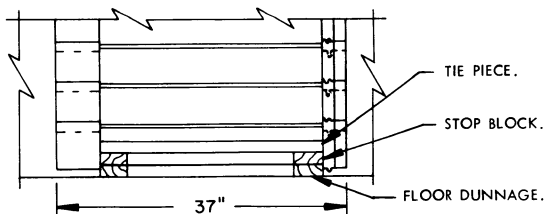


STACK ELEVATION

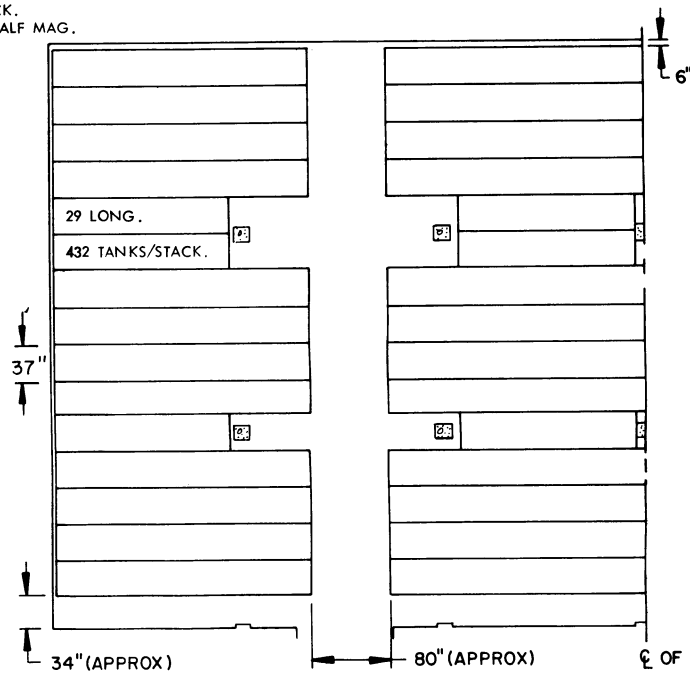
783 CARTRIDGE TANKS PER STACK.
21,384 CARTRIDGE TANKS PER HALF MAG.

BILL OF MATERIAL (PER STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 42 LONG	2" X 4"	54	36
SINGLE STACK 29 LONG	2" X 4"	37	25
	NAILS	NO. REQD	POUNDS
SINGLE STACK 42 LONG	10d (3")	24	1/2
SINGLE STACK 29 LONG	10d (3")	24	1/2



PARTIAL END VIEW OF STACK



**PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)**

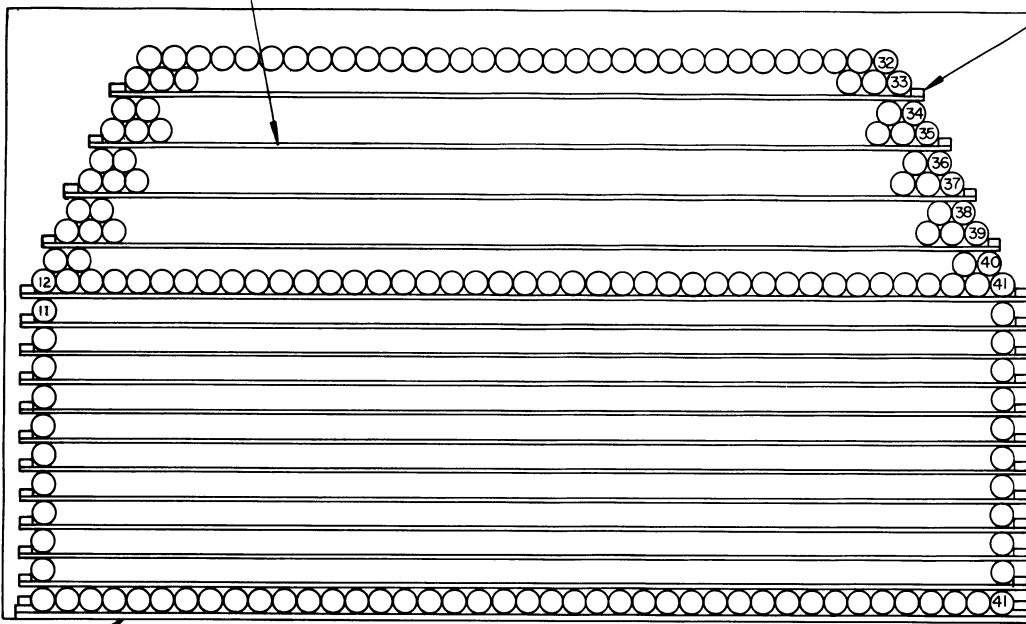
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE MK5, MOD. 2 CARTRIDGE TANK FOR 3"/50. USE THIS SAME STORAGE FORMAT FOR ALL MK5 CARTRIDGE TANK MODS.
TANK DIMENSIONS-----37" LONG BY 5-63/64" DIAMETER.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF TANKS PER LAYER IN A STACK.
3. NOTE: JOINTS IN FLOOR DUNNAGE MUST BE STAGGERED.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (30 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 37" (32 REQD PER STACK). POSITION AGAINST THE END CONTAINERS. NAIL THE TWO TIE PIECES POSITIONED ON THE STOP BLOCKS W/3-10d NAILS AT EACH END. THE INTERMEDIATE DUNNAGE WILL BE NAILED TO THE REMAINING TIE PIECES W/3-6d NAILS AT EACH END.

STOP BLOCK, 2" X 4" X 5" (4 REQD PER STACK). NAIL TO THE FLOOR DUNNAGE W/3-10d NAILS.



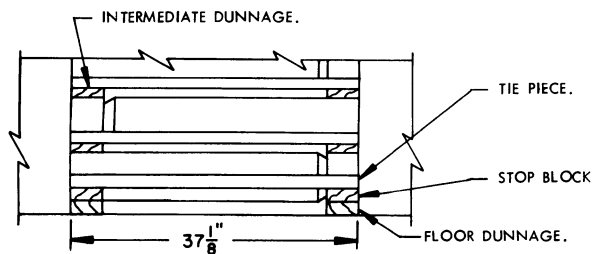
STACK ELEVATION

816 CONTAINERS PER STACK.
22,842 CONTAINERS PER HALF MAG.

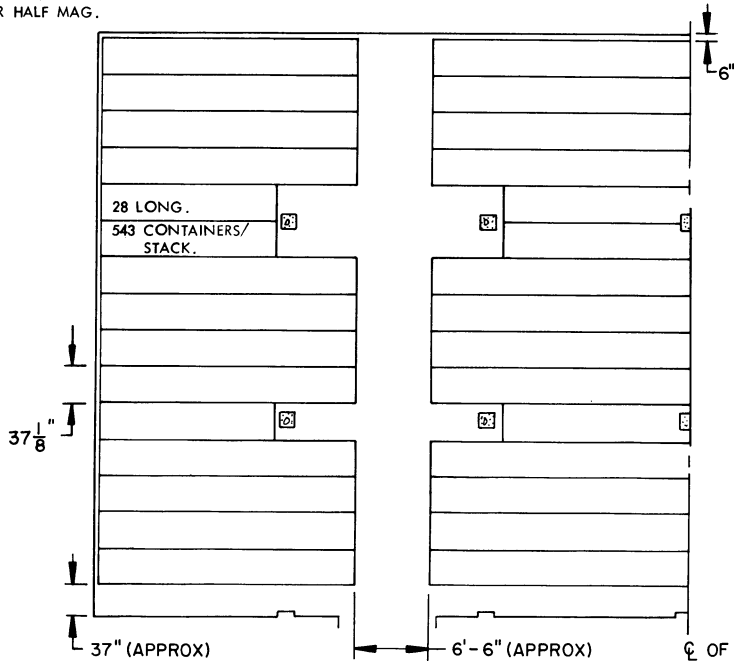
3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

BILL OF MATERIAL (PER STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 41 LONG	1" X 4"	683	228
	2" X 4"	148	99
SINGLE STACK 28 LONG	1" X 4"	434	145
	2" X 4"	131	88
	NAILS	NO. REQD	POUNDS
SINGLE STACK 41 LONG	6d (2")	180	1-1/4
	10d (3")	24	1/2
SINGLE STACK 28 LONG	6d (2")	180	1-1/4
	10d (3")	24	1/2



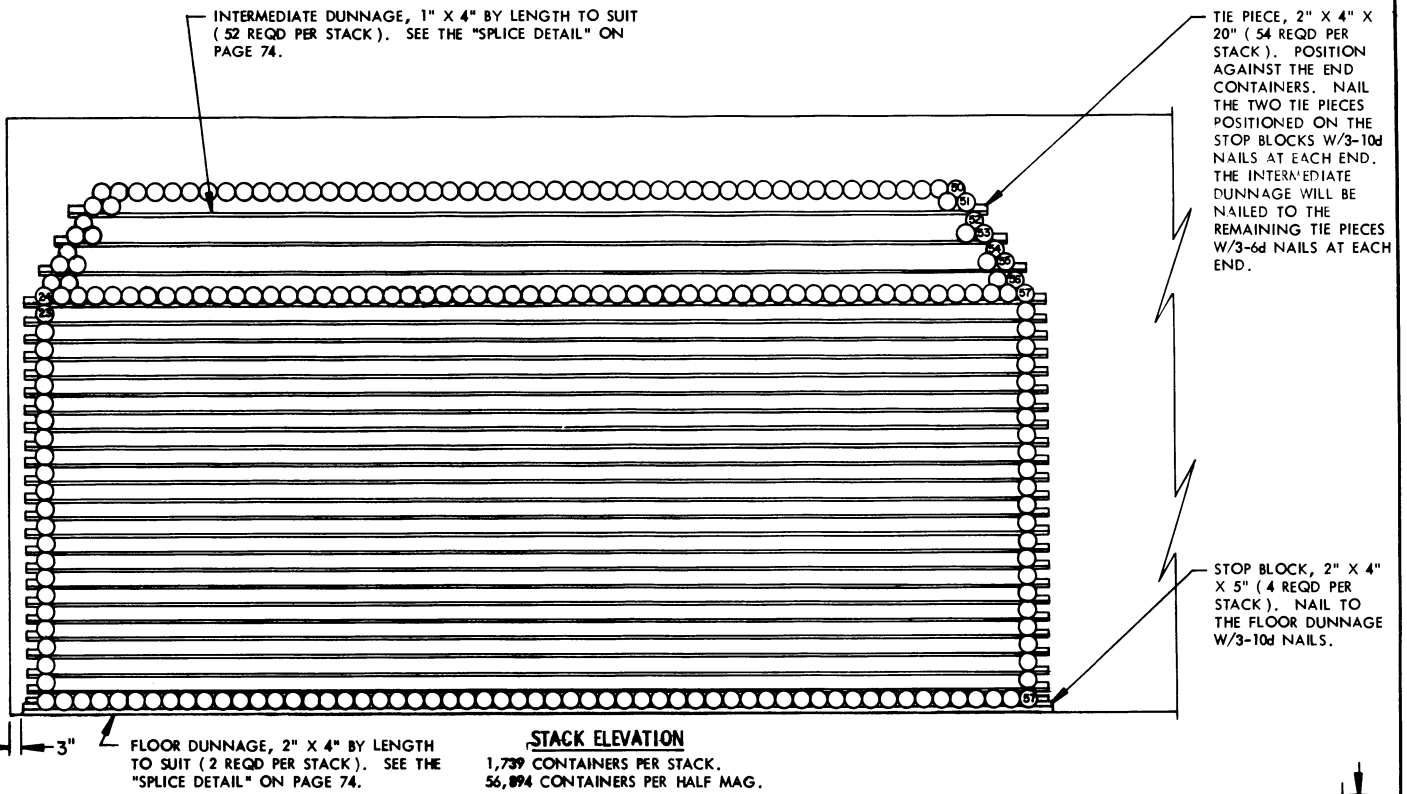
PARTIAL END VIEW OF STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

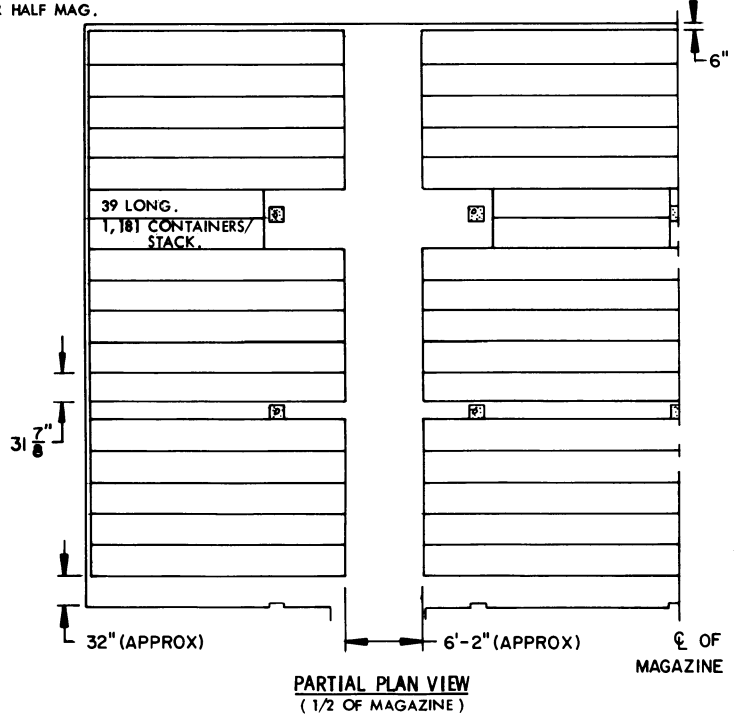
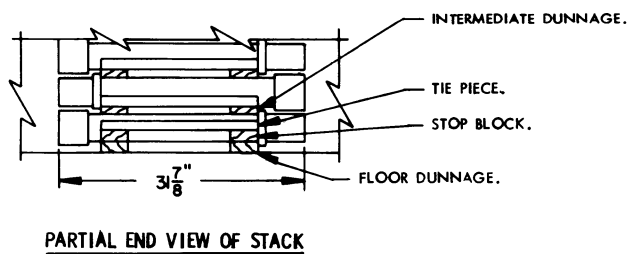
SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE M152 SERIES CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL M152 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----37-1/8" LONG BY 6-1/8" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.



BILL OF MATERIAL (PER STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 57 LONG	1" X 4"	1,229	410
	2" X 4"	140	94
SINGLE STACK 39 LONG	1" X 4"	795	265
	2" X 4"	123	82
	NAILS	NO. REQD	POUNDS
SINGLE STACK 57 LONG	6d (2")	312	2
	10d (3")	24	1/2
SINGLE STACK 39 LONG	6d (2")	312	2
	10d (3")	24	1/2

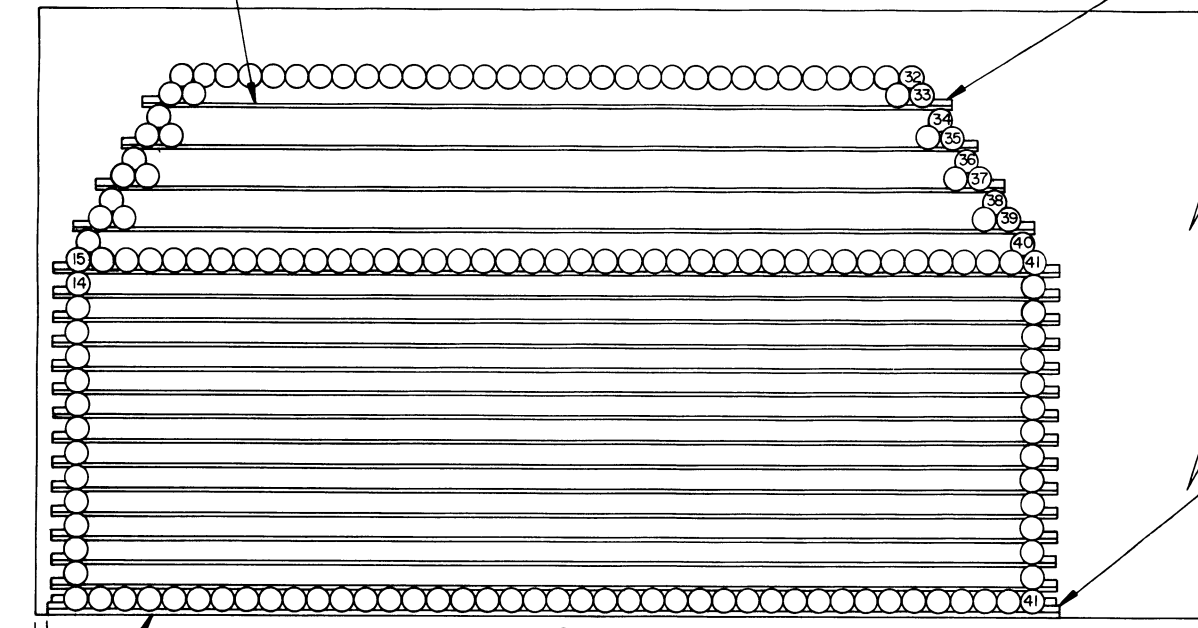


- SPECIAL NOTES:**
- STORAGE AS SHOWN IS FOR THE M154 SERIES CONTAINERS. USE THIS SAME STORAGE FORMAT FOR ALL M154 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----31-7/8" LONG BY 4-1/2" DIAMETER.
 - THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
 - NOTE:** JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (36 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 29" (38 REQD PER STACK). POSITION AGAINST THE END CONTAINERS. NAIL THE TWO TIE PIECES POSITIONED ON THE STOP BLOCKS W/3-10d NAILS AT EACH END. THE INTERMEDIATE DUNNAGE WILL BE NAILED TO THE REMAINING TIE PIECES W/3-6d NAILS AT EACH END.

STOP BLOCK, 2" X 4" X 5" (4 REQD PER STACK). NAIL TO THE FLOOR DUNNAGE W/3-10d NAILS.



STACK ELEVATION

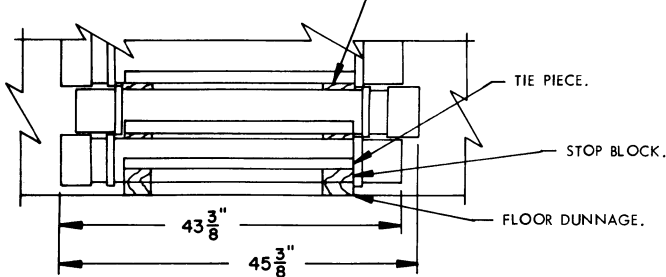
939 CONTAINERS PER STACK.
21,816 CONTAINERS PER HALF MAG.

FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPlice DETAIL" ON PAGE 74.

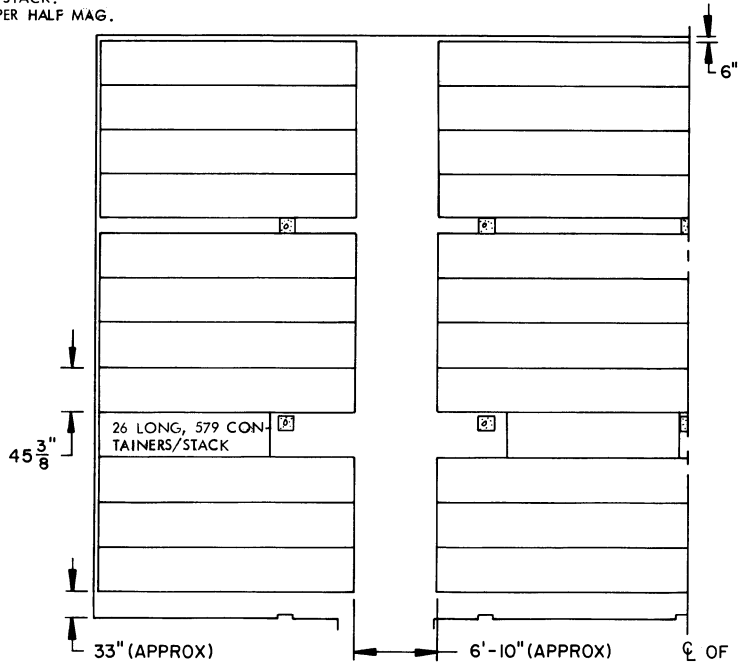
BILL OF MATERIAL (PER STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 41 LONG	1" X 4"	816	272
	2" X 4"	141	94
SINGLE STACK 26 LONG	1" X 4"	482	161
	2" X 4"	122	82
	NAILS	NO. REQD	POUNDS
SINGLE STACK 41 LONG	6d (2")	216	1-1/2
	10d (3")	24	1/2
SINGLE STACK 26 LONG	6d (2")	216	1-1/2
	10d (3")	24	1/2

INTERMEDIATE DUNNAGE.



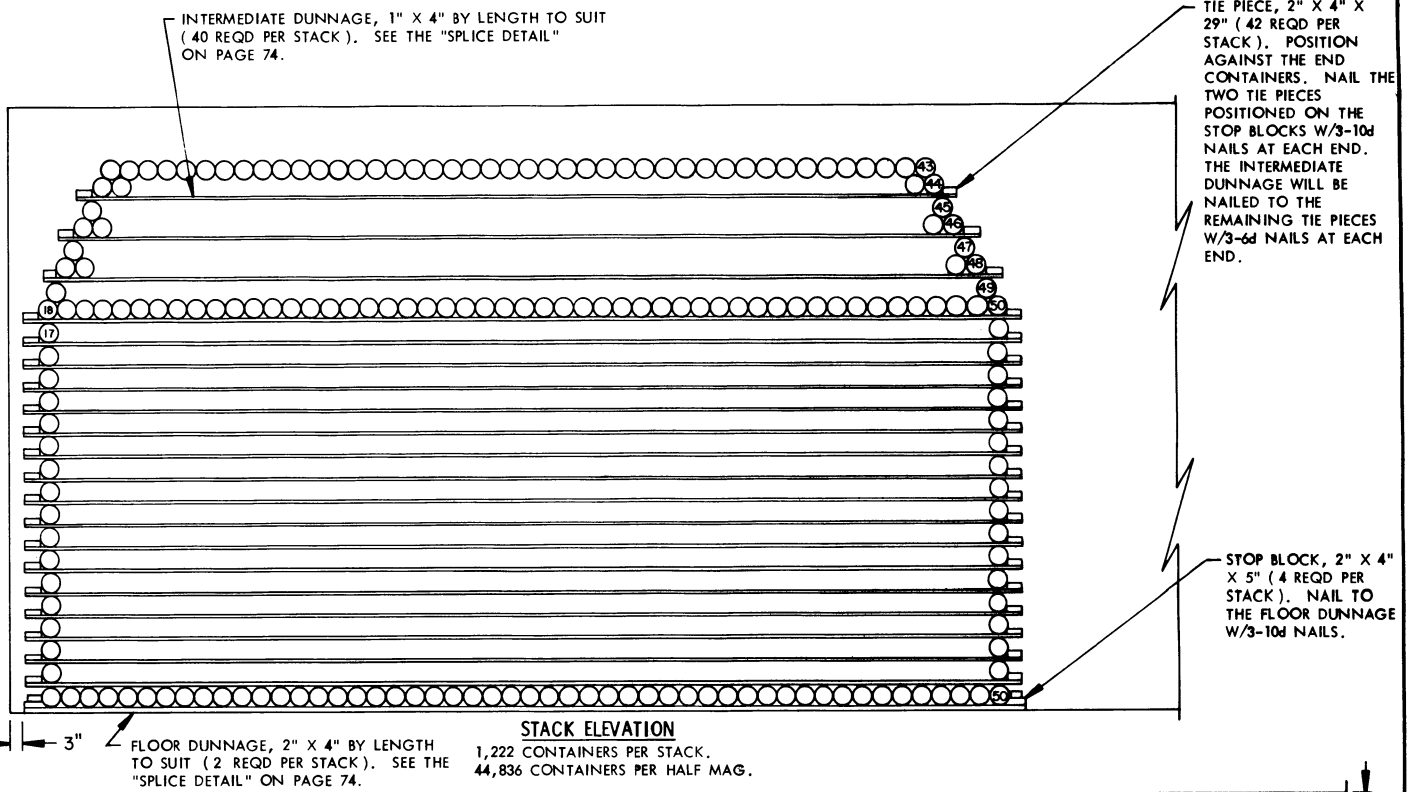
PARTIAL END VIEW OF STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

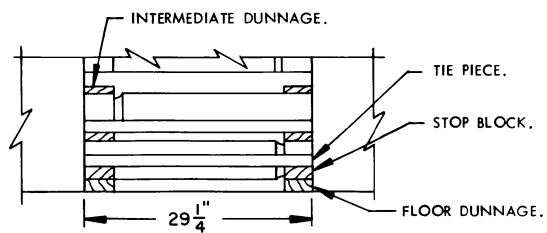
SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE M159 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL M159 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----43-3/8" LONG BY 6-1/8" DIAMETER.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.

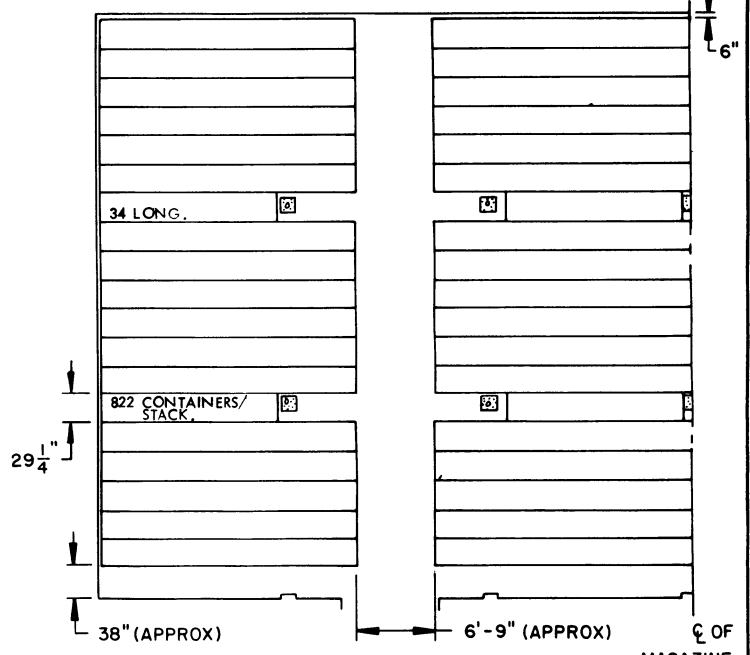


BILL OF MATERIAL (PER STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 50 LONG	1" X 4"	924	308
	2" X 4"	150	100
SINGLE STACK 34 LONG	1" X 4"	590	197
	2" X 4"	132	89
	NAILS	NO. REQD	POUNDS
SINGLE STACK 50 LONG	6d (2")	240	1-1/2
	10d (3")	24	1/2
SINGLE STACK 34 LONG	6d (2")	240	1-1/2
	10d (3")	24	1/2



PARTIAL END VIEW OF STACK

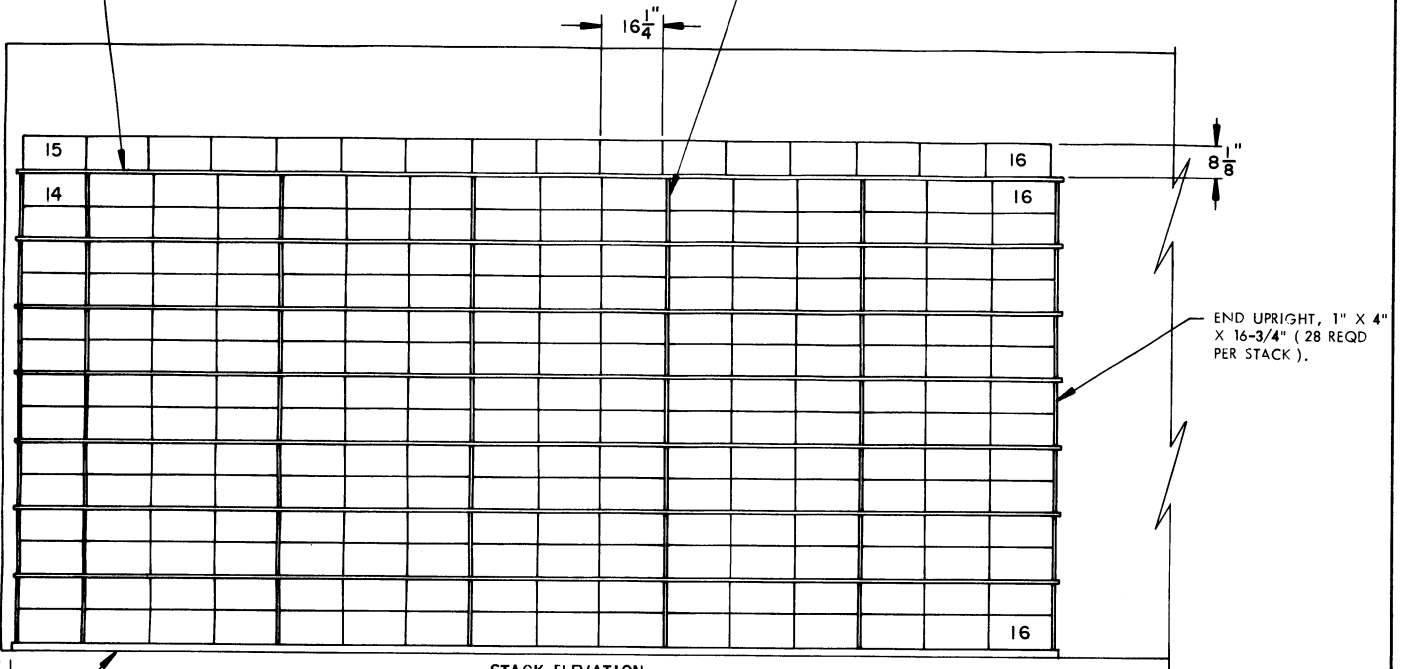


**PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)**

- SPECIAL NOTES:**
- STORAGE AS SHOWN IS FOR THE M173 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL M173 AND T53 SERIES CONTAINERS.
CONTAINER DIMENSIONS-----29-1/4" LONG BY 5" DIAMETER.
 - THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK.
 - NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.

INTERMEDIATE DUNNAGE, 1" X 4" BY CUT TO EXTEND 1/2" BEYOND THE END UPRIGHTS (14 REQD PER STACK). SEE SPECIAL NOTE 3 ON PAGE 43.

INTERMEDIATE UPRIGHT, 1" X 4" X 16-1/4" (70 REQD PER STACK). SEE SPECIAL NOTES 3 AND 6 ON PAGE 43.

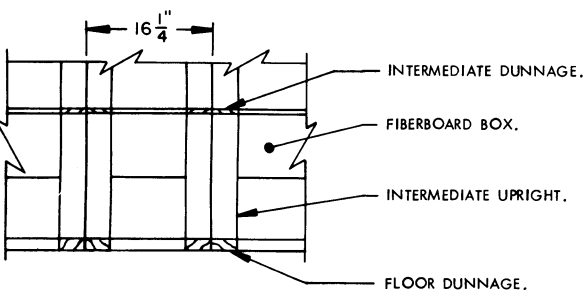


STACK ELEVATION

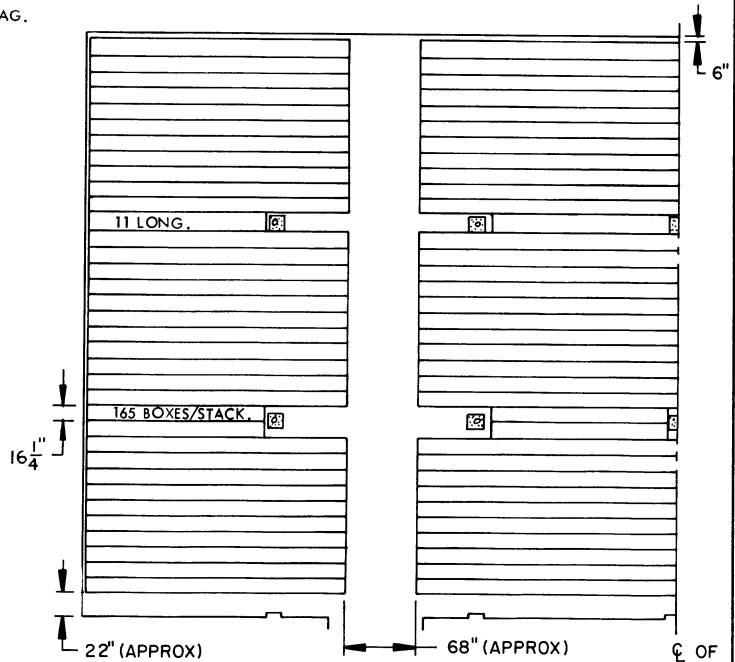
FLOOR DUNNAGE, 2" X 4" BY CUT TO EXTEND 1/2" BEYOND THE END UPRIGHTS (2 REQD PER STACK).

240 BOXES PER STACK.
16,350 BOXES PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 16 LONG	1" X 4"	445	149
	2" X 4"	45	30
SINGLE STACK 11 LONG	1" X 4"	311	104
	2" X 4"	31	21



PARTIAL END VIEW OF STACK



**PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)**

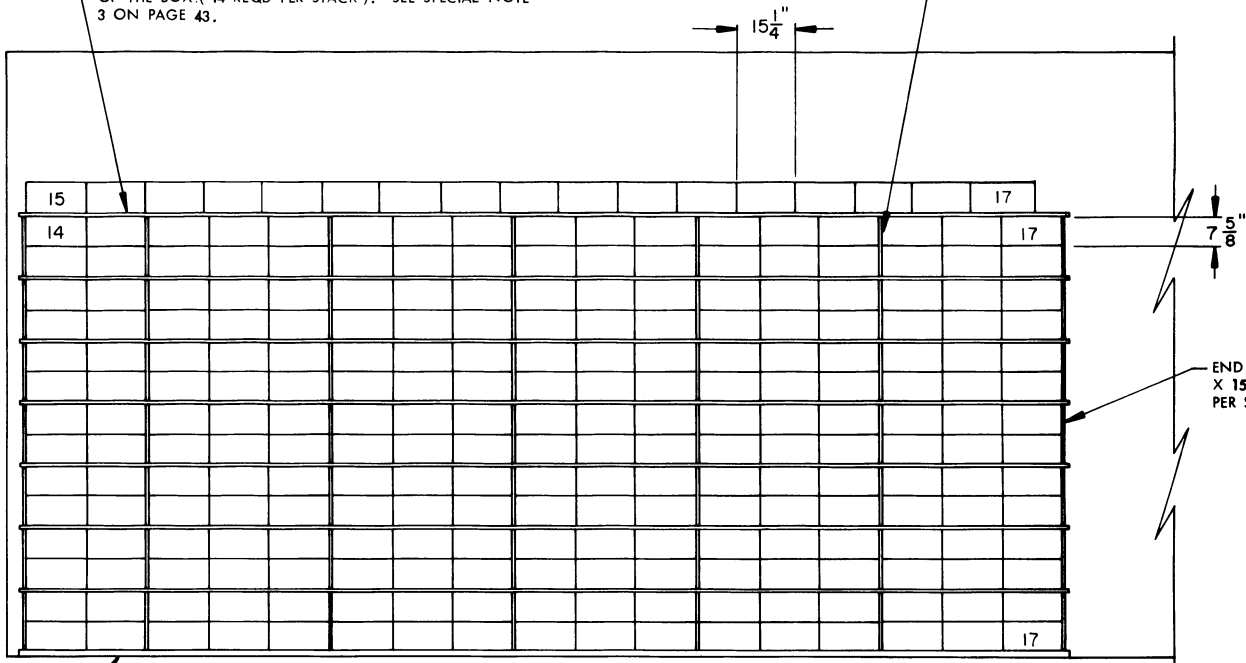
THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 654,000 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2 AND SPECIAL NOTE 2 AT THE TOP OF PAGE 43.

FOR "SPECIAL NOTES" REFER TO PAGE 43.

STORAGE METHOD A
TNC, PENTOLITE, POTASSIUM PICRATE, COMP D-2,
MAX 2, AND MOX 2B (PACKED IN FIBERBOARD BOX)

INTERMEDIATE DUNNAGE, 1" X 4" BY CUT TO EXTEND 1/2" BEYOND THE END UPRIGHTS OR THE OUTSIDE EDGE OF THE BOX. (14 REQD PER STACK). SEE SPECIAL NOTE 3 ON PAGE 43.

INTERMEDIATE UPRIGHT, 1" X 4" X 15-1/4" (70 REQD PER STACK). SEE SPECIAL NOTES 3 AND 6 ON PAGE 43.

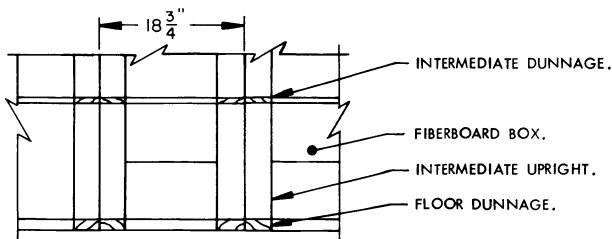


END UPRIGHT, 1" X 4" X 15-3/4" (28 REQD PER STACK).

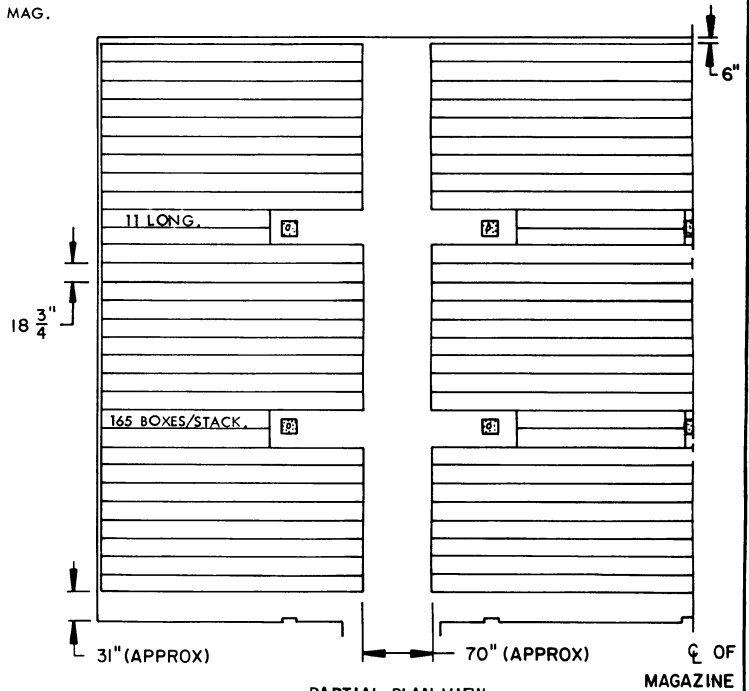
3" FLOOR DUNNAGE, 2" X 4" BY CUT TO EXTEND 1/2" BEYOND THE END UPRIGHTS (2 REQD PER STACK).

STACK ELEVATION
255 BOXES PER STACK.
14,580 BOXES PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 17 LONG	1" X 4"	436	146
	2" X 4"	45	30
SINGLE STACK 11 LONG	1" X 4"	292	98
	2" X 4"	28	19



PARTIAL END VIEW OF STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

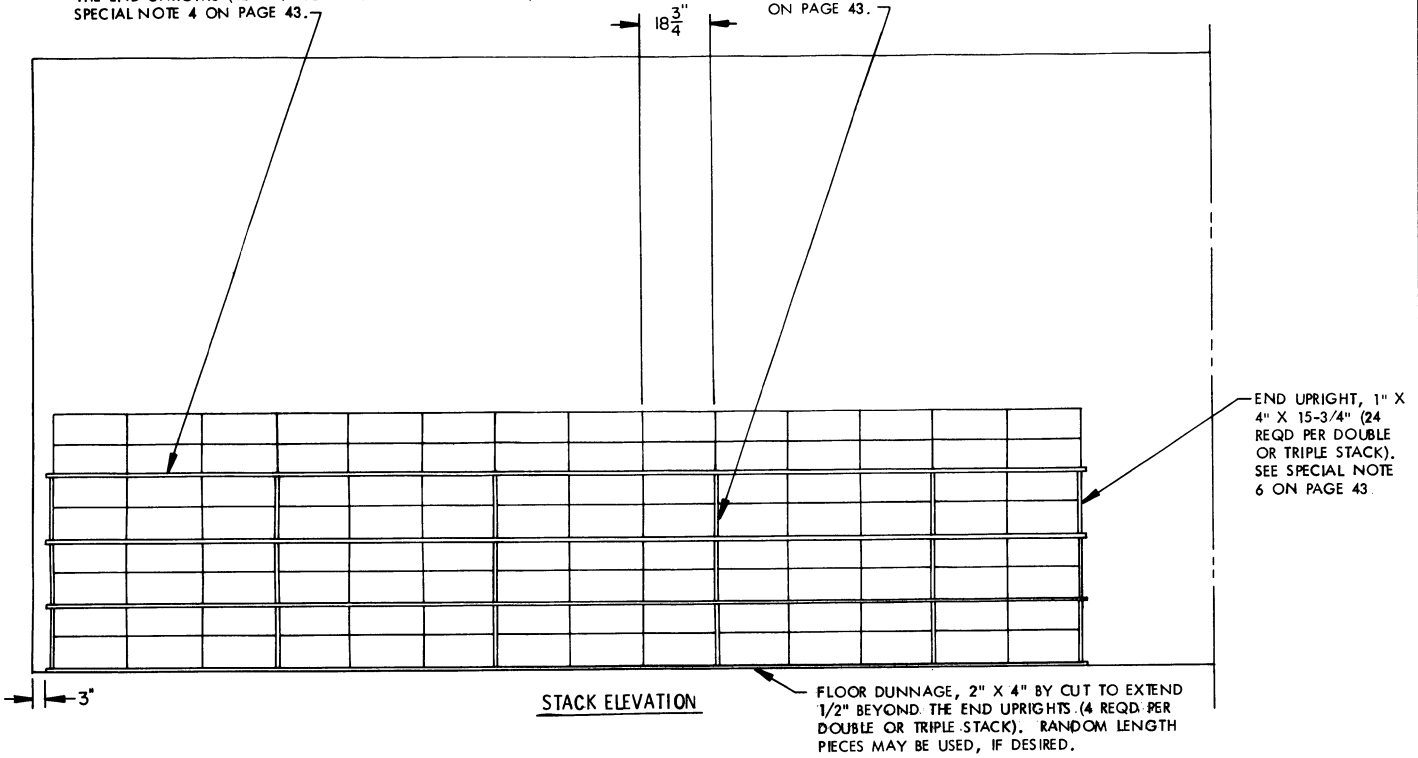
THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE OF 50-POUND BOXES IS 729,000 POUNDS. THE EXPLOSIVE WEIGHT OF 55-POUND BOXES IS 801,900 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2 AND SPECIAL NOTE 2 AT THE BOTTOM OF PAGE 43.

FOR "SPECIAL NOTES" REFER TO PAGE 43.

STORAGE METHOD A
TNT, ALL COMP A, ALL COMP B, COMP C-3 AND C-4, EXPLOSIVE D,
CYCLOTOL, OCTOL, PBX, TETRYL, TOVEX, AND PBXN6 (PACKED IN FIBERBOARD BOX)

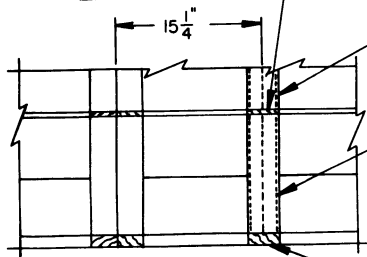
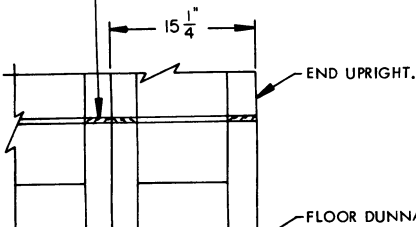
INTERMEDIATE DUNNAGE, 1" X 4" BY CUT TO EXTEND 1/2" BEYOND THE END UPRIGHTS (12 REQD PER DOUBLE OR TRIPLE STACK). SEE SPECIAL NOTE 4 ON PAGE 43.

INTERMEDIATE UPRIGHT, 1" X 4" X 15-1/4" (48 REQD PER DOUBLE OR TRIPLE STACK). SEE SPECIAL NOTE 6 ON PAGE 43.

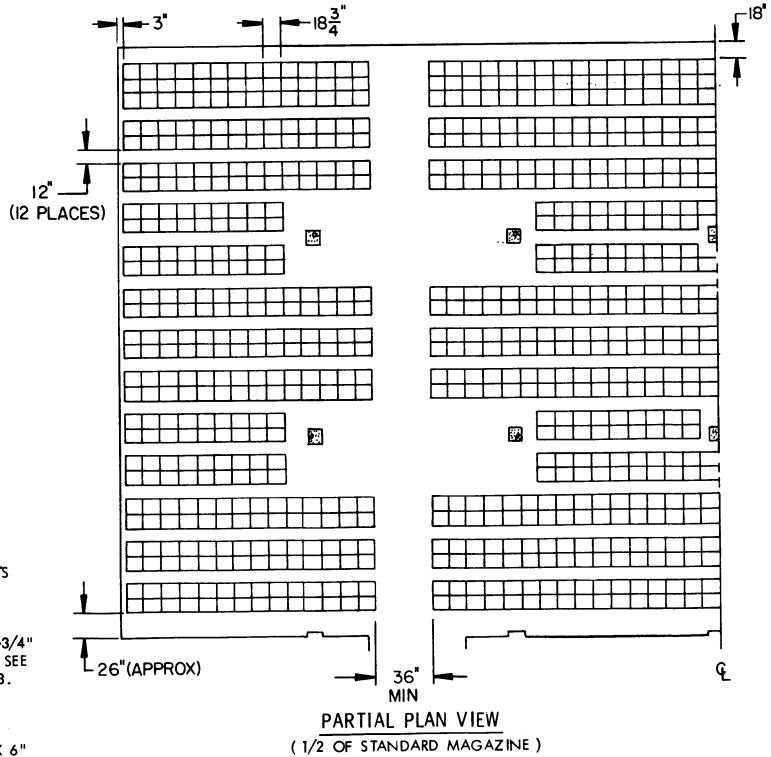


FLOOR DUNNAGE, 2" X 4" BY CUT TO EXTEND 1/2" BEYOND THE END UPRIGHTS (4 REQD PER DOUBLE OR TRIPLE STACK). RANDOM LENGTH PIECES MAY BE USED, IF DESIRED.

INTERMEDIATE DUNNAGE.



FLOOR DUNNAGE, 2" X 6" BY CUT TO EXTEND 1/2" BEYOND THE END UPRIGHTS (1 REQD PER TRIPLE STACK). RANDOM LENGTH PIECES MAY BE USED, IF DESIRED.



BILL OF MATERIAL

DOUBLE STACK (14 UNITS LONG)			TRIPLE STACK (14 UNITS LONG)		
LUMBER	LINEAR FEET	BOARD FEET	LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	361	121	1" X 4"	361	121
2" X 4"	90	60	1" X 6"	91	46
			2" X 4"	90	60
			2" X 6"	23	23

SMALL LOT STORAGE OF

TNT, ALL COMP A, ALL COMP B, COMP C-3 & C-4, EXPLOSIVE D, CYCLOTOL, OCTOL, PBX AND TETRYL (PACKED IN FIBERBOARD CONTAINERS)

SPECIAL NOTES FOR PAGE 40:

1. STORAGE AS SHOWN IS FOR TNC AND SIMILAR BULK EXPLOSIVES PACKED IN FIBERBOARD BOX NO. 2. FOR DETAILS OF BOX SEE PICATINNY ARSENAL DRAWING NO. 7548645.

DIMENSIONS ----- 16-1/4" LONG BY 16-1/4" WIDE BY 8-1/8" HIGH.
EXPLOSIVE WEIGHT ----- 40 POUNDS.
2. SIMILAR BULK EXPLOSIVES INCLUDE:

ITEM	EXPL WT/BX	EXPLOSIVE WEIGHT PER 1/2 MAGAZINE
(a) PENTOLITE	35 LBS	572,250 LBS
(b) POTASSIUM PICRATE	35 LBS	572,250 LBS
(c) COMPOSITION D-2	30 LBS	490,500 LBS
(d) MAX 2	50 LBS	817,500 LBS
(e) MCX 2B	50 LBS	817,500 LBS
3. RANDOM LENGTH MATERIAL, OF NOT LESS THAN 48" LENGTHS, MAY BE USED FOR THE 1" X 4" INTERMEDIATE DUNNAGE. INTERMEDIATE DUNNAGE WILL BE POSITIONED ALONG THE TOP EDGES OF THE BOXES AS SHOWN IN THE "PARTIAL END VIEW OF STACK" DETAIL. THE JOINTS IN THE INTERMEDIATE DUNNAGE MUST NOT BE LOCATED CLOSER THAN 6" FROM AN INTERMEDIATE UPRIGHT PIECE. JOINTS OF INTERMEDIATE DUNNAGE PIECES ALONG ONE SIDE OF THE BOXES WITHIN A LAYER OF A STACK WILL BE STAGGERED A DISTANCE OF AT LEAST ONE BOX FROM THOSE JOINTS OF DUNNAGE ALONG THE OTHER SIDE OF THE BOXES. ALSO, JOINTS IN AN UPPER LAYER OF INTERMEDIATE DUNNAGE WILL BE OFFSET FROM THE JOINTS IN THE NEXT LOWER LAYER OF DUNNAGE BY A DISTANCE EQUAL TO OR GREATER THAN THE BOX-DIMENSIONS WHICH IS PARALLEL TO THE DUNNAGE.
4. CAUTION: TNC PACKED IN FIBERBOARD BOXES OF THE SIZE SHOWN AND SIMILAR BULK EXPLOSIVES PACKED IN FIBERBOARD BOXES WHICH ARE APPROXIMATELY THE SAME HEIGHT MUST NOT BE STACKED MORE THAN FIFTEEN (15) BOXES HIGH.
5. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.
6. WHEN STORING BOXES OF A HEIGHT OTHER THAN 8-1/8", THE LENGTH OF THE UPRIGHT PIECES MUST BE ADJUSTED TO COMPLY WITH THE FOLLOWING CRITERIA:
 - A. INTERMEDIATE UPRIGHT PIECES MUST BE OF A LENGTH EQUAL TO THE HEIGHT OF TWO BOXES.
 - B. END UPRIGHT PIECES MUST BE 1/2" LONGER THAN INTERMEDIATE UPRIGHT PIECES.
7. STORAGE AS SHOWN IS FOR FIBERBOARD BOXES CONTAINING TNC. THE PROCEDURES ARE APPLICABLE FOR ALL THE ITEMS LISTED IN SPECIAL NOTE 2. FULL STACKS ARE SHOWN IN THE PLAN VIEW ON PAGE 40. ADDITIONAL STACKS OF ANY OF THE LISTED ITEMS MAY BE STORED PROVIDED THE EXPLOSIVE LIMIT FOR THE MAGAZINE IS NOT EXCEEDED.
8. THE STORAGE PROCEDURES ON PAGE 40 SHOULD ONLY BE USED IN GEOGRAPHICAL AREAS WHICH HAVE LOW HUMIDITY LEVELS. FOR PROCEDURES APPLICABLE TO THE STORAGE OF TNC AND SIMILAR BULK EXPLOSIVE IN GEOGRAPHICAL AREAS HAVING HIGH HUMIDITY, REFER TO THE PROCEDURES ON PAGE 76.

SPECIAL NOTES FOR PAGE 41:

1. STORAGE AS SHOWN IS FOR TNT AND SIMILAR BULK EXPLOSIVES PACKED IN FIBERBOARD BOX NO. 4. FOR DETAILS OF THE BOX SEE PICATINNY ARSENAL DRAWING NO. 7548645.

DIMENSIONS ----- 18-3/4" LONG BY 15-1/4" WIDE BY 7-5/8" HIGH.
EXPLOSIVE WEIGHT ----- 50 OR 55 POUNDS.
2. SIMILAR BULK EXPLOSIVES INCLUDE:

ITEM	EXPL WT/BX	EXPLOSIVE WEIGHT PER 1/2 MAGAZINE
(a) TNT.	50 LBS	729,000 LBS
(b) TNT.	55 LBS	801,900 LBS
(c) ALL COMPOSITION A.	60 LBS	874,800 LBS
(d) ALL COMPOSITION B.	60 LBS	874,800 LBS
(e) COMPOSITION C-3 AND C-4	60 LBS	874,800 LBS
(f) EXPLOSIVE D.	50 LBS	729,000 LBS
(g) CYCLOTOL.	60 LBS	874,800 LBS
(h) OCTOL.	60 LBS	874,800 LBS
(i) PBX.	60 LBS (MAX)	874,800 LBS (MAX)
(k) TETRYL.	60 LBS	874,800 LBS
(l) TOVEX.	50 LBS	729,000 LBS
(m) PBXN 6.	50 LBS	729,000 LBS
3. RANDOM LENGTH MATERIAL, OF NOT LESS THAN 48" LENGTHS, MAY BE USED FOR THE 1" X 4" INTERMEDIATE DUNNAGE. INTERMEDIATE DUNNAGE WILL BE POSITIONED ALONG THE TOP EDGES OF THE BOXES AS SHOWN IN THE "PARTIAL END VIEW OF STACK" DETAIL. THE JOINTS IN THE INTERMEDIATE DUNNAGE MUST NOT BE LOCATED CLOSER THAN 6" FROM AN INTERMEDIATE UPRIGHT PIECE. JOINTS OF INTERMEDIATE DUNNAGE PIECES ALONG ONE SIDE OF THE BOXES WITHIN A LAYER OF A STACK WILL BE STAGGERED A DISTANCE OF AT LEAST ONE BOX FROM THOSE JOINTS OF DUNNAGE ALONG THE OTHER SIDE OF THE BOXES. ALSO, JOINTS IN AN UPPER LAYER OF INTERMEDIATE DUNNAGE WILL BE OFFSET FROM THE JOINTS IN THE NEXT LOWER LAYER OF DUNNAGE BY A DISTANCE EQUAL TO OR GREATER THAN THE BOX-DIMENSION WHICH IS PARALLEL TO THE DUNNAGE.
4. CAUTION: TNT PACKED IN FIBERBOARD BOXES OF THE SIZE SHOWN AND SIMILAR BULK EXPLOSIVES PACKED IN FIBERBOARD BOXES WHICH ARE APPROXIMATELY THE SAME HEIGHT MUST NOT BE STACKED MORE THAN FIFTEEN (15) BOXES HIGH.

(CONTINUED AT RIGHT)

(SPECIAL NOTES CONTINUED)

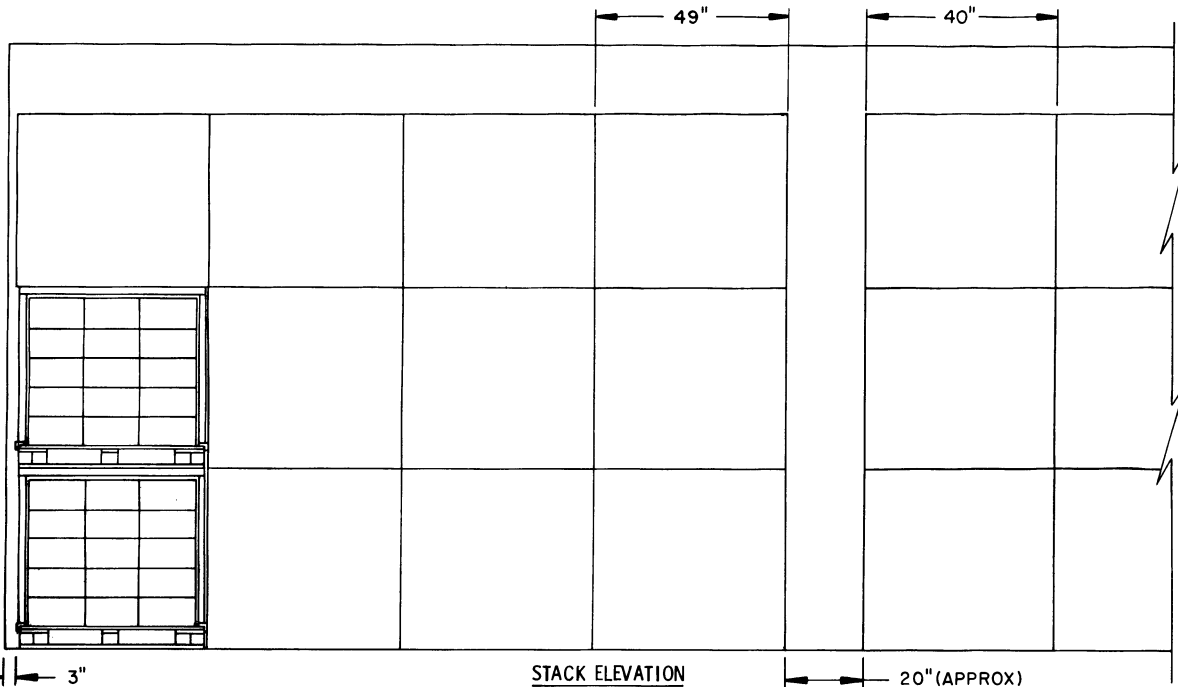
5. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.
6. WHEN STORING BOXES OF A HEIGHT OTHER THAN 7-5/8", THE LENGTH OF THE UPRIGHT PIECES MUST BE ADJUSTED TO COMPLY WITH THE FOLLOWING CRITERIA:
 - A. INTERMEDIATE UPRIGHT PIECES MUST BE OF A LENGTH EQUAL TO THE HEIGHT OF TWO BOXES.
 - B. END UPRIGHT PIECES MUST BE 1/2" LONGER THAN INTERMEDIATE UPRIGHT PIECES.
7. STORAGE AS SHOWN IS FOR FIBERBOARD BOXES CONTAINING 50 POUNDS OF TNT. THE PROCEDURES ARE ALSO APPLICABLE FOR 55-POUND BOXES OF TNT AND FOR ALL THE ITEMS LISTED IN SPECIAL NOTE 2. ADDITIONAL STACKS OF ALL ITEMS MAY BE STORED IF THE SPACE PERMITS AND PROVIDED THE EXPLOSIVE LIMIT FOR THE MAGAZINE IS NOT EXCEEDED.
8. THE STORAGE PROCEDURES ON PAGE 41 SHOULD ONLY BE USED IN GEOGRAPHICAL AREAS WHICH HAVE LOW HUMIDITY LEVELS. FOR PROCEDURES APPLICABLE TO THE STORAGE OF TNT AND SIMILAR BULK EXPLOSIVES IN GEOGRAPHICAL AREAS HAVING HIGH HUMIDITY, REFER TO THE PROCEDURES ON PAGE 78.

SPECIAL NOTES FOR PAGE 42:

1. STORAGE AS SHOWN IS TYPICAL ONLY, AND APPLIES TO NUMEROUS SMALL LOTS OF TNT AND SIMILAR BULK EXPLOSIVES PACKED IN FIBERBOARD BOX NO. 4. FOR DETAILS OF THE BOX, SEE PICATINNY ARSENAL DRAWING NO. 7548645.

DIMENSIONS ----- 18-3/4" LONG BY 15-1/4" WIDE BY 7-5/8" HIGH.
EXPLOSIVE WEIGHT -- 50 POUNDS. SEE SPECIAL NOTE 7.
2. SIMILAR BULK EXPLOSIVES INCLUDE:

ITEM	
(a) ALL COMPOSITION A.	(f) OCTOL.
(b) ALL COMPOSITION B.	(g) PBX.
(c) COMPOSITION C-3 AND C-4	(h) TETRYL.
(d) EXPLOSIVE D.	(i) TOVEX.
(e) CYCLOTOL.	(k) PBXN 6
	(l) TNC.
3. IF PALLETIZED BOXES ARE TO BE STORED, REFER TO U.S. ARMY AMC DRAWING 19-48-4097-1-3-4-14-22PA1009 FOR PROCEDURES TO BE USED. FOR UNITIZATION PROCEDURES (SIDE PANEL METHOD) REFER TO USAMC AMMUNITION CENTER DRAWING C-AMXSV-4071. FOR UNITIZATION PROCEDURES (STRETCH NET METHOD) REFER TO U.S. ARMY AMC DRAWING 19-48-4177/1-20PA1007.
4. RANDOM LENGTH MATERIAL, OF NOT LESS THAN 48" LENGTHS, MAY BE USED FOR THE 1" X 4" AND/OR THE 1" X 6" INTERMEDIATE DUNNAGE PIECES. THE JOINTS IN THE INTERMEDIATE DUNNAGE PIECES MUST BE APPROXIMATELY CENTERED BETWEEN THE INTERMEDIATE UPRIGHT PIECES. THE JOINTS OF ADJACENT INTERMEDIATE DUNNAGE PIECES IN A LAYER WILL BE STAGGERED AT LEAST 18" FROM EACH OTHER. ALSO, THE JOINTS OF THE INTERMEDIATE DUNNAGE PIECES IN AN UPPER LAYER WILL BE STAGGERED AT LEAST 18" FROM THE JOINTS IN THE NEXT LOWER LAYER.
5. CAUTION: TNT PACKED IN FIBERBOARD BOXES OF THE SIZE SHOWN AND SIMILAR BULK EXPLOSIVES PACKED IN FIBERBOARD BOXES WHICH ARE APPROXIMATELY THE SAME HEIGHT MUST NOT BE STACKED MORE THAN EIGHT (8) BOXES HIGH.
6. WHEN STORING BOXES OF A HEIGHT OTHER THAN 7-5/8", THE LENGTH OF THE UPRIGHT PIECES MUST BE ADJUSTED TO COMPLY WITH THE FOLLOWING CRITERIA:
 - A. INTERMEDIATE UPRIGHT PIECES MUST BE OF A LENGTH EQUAL TO THE HEIGHT OF TWO BOXES.
 - B. END UPRIGHT PIECES MUST BE 1/2" LONGER THAN INTERMEDIATE UPRIGHT PIECES.
7. STORAGE AS SHOWN IS FOR FIBERBOARD BOXES CONTAINING 50 POUNDS OF TNT. THE EXPLOSIVE WEIGHT FOR THE ITEM LISTED IN THIS NOTE AND IN SPECIAL NOTE 2 ABOVE WILL VARY FROM 40 TO 60 POUNDS. NOTE THAT BOXES ARE STORED WITH THE LABELS FACING A 12" AISLE FOR EASIER IDENTIFICATION.
8. GENERALLY, THE LARGEST LOT SHOULD BE STORED IN THE REAR OR ON ONE SIDE OF THE MAGAZINE. THE TRIPLE STACK IN THE REAR OF THE MAGAZINE MAY ONLY CONTAIN TWO SEPARATE LOTS SINCE IDENTIFICATION OF THE BURIED ROW WOULD NOT BE POSSIBLE.
9. A DOUBLE STACK MAY CONSIST OF EITHER ONE INDIVIDUAL LOT, OR TWO SEPARATE LOTS, AS LONG AS THE SIDE OF THE BOX DISPLAYING THE LABEL FACES THE 12" AISLE.

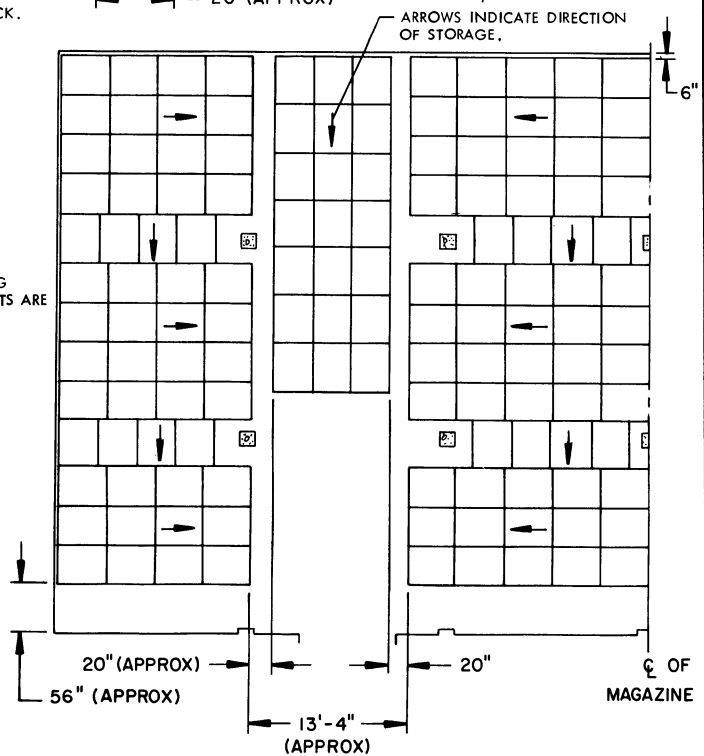


STACK ELEVATION
12 PALLET UNITS PER STACK.
360 BOXES PER STACK.

SPECIAL NOTES:

1. EACH UPPER PALLET WITHIN A ROW OR STACK DOES NOT REQUIRE A PALLET RACK. HOWEVER, EACH PALLET WHICH VERTICALLY SUPPORTS ANOTHER PALLET DOES REQUIRE THE USE OF A PALLET RACK, INSTALLED AS TYPICALLY SHOWN BY THE "RACK INSTALLATION" DETAIL ON PAGE 45. THE STACK SHOWN IN THE STACK ELEVATION WILL REQUIRE EIGHT PALLET RACKS. THE STORAGE ARRANGEMENT DELINEATED ABOVE SHOWS A TYPICAL STORAGE METHOD BASED ON THE 30-BOX PALLET UNIT DISPLAYED ON PAGE 45. ADJUSTMENTS MAY BE MADE AS REQUIRED TO THE STORAGE METHOD SHOWN TO COMPENSATE FOR A DIFFERENT SIZE PALLET UNIT. DIFFERENT TYPE AND SIZE PALLETS CAN BE USED WITH PALLET RACKS.
2. PALLET RACKS ARE ONLY SHOWN ON THE PALLETS WHICH ARE VERTICALLY SUPPORTING ANOTHER PALLET WITHIN THE STORAGE VIEW SHOWN ABOVE. ONLY FULL PALLET UNITS ARE SHOWN. IF A PARTIAL UNIT IS STORED, A PALLET CAN BE USED UNDER IT, OR IN LIEU OF A PALLET, A SHEET OF 3/4" THICK PLYWOOD MAY BE USED TO SUPPORT A PARTIAL UNIT. CAUTION: THE EXPLOSIVE WEIGHT LIMIT FOR THE MAGAZINE IS NOT TO BE EXCEEDED.
3. THE PALLET RACK DEPICTED IN THE "RACK INSTALLATION" DETAIL ON PAGE 45 IS DESIGNATED IN TM 743-200-1 CHAPTER 5, AS A PALLET SUPPORT SET. THE PALLET RACK SHOWN IS MIL SPEC MIL-S-21859 (NSN-3990-00-542-4771) FOR A 40" X 48" PALLET). A TIE ROD MUST BE INSTALLED TO TIE THE BASES OF THE TWO VERTICAL FRAME MEMBERS TOGETHER. OTHER TYPE PALLET RACKS MAY ALSO BE USED.
4. WHEN WIDE-TYPE PALLET RACKS ARE USED, A SUPPORT BLOCK 5-1/2" LONG BY 2-1/2" WIDE BY CUT-TO-FIT IN HEIGHT MUST BE POSITIONED UNDER THE WING OF THE PALLET AT EACH CORNER BETWEEN THE BOTTOM DECK BOARD AND THE STRINGER BOARD OF THE PALLET TO SUPPORT THE VERTICAL MEMBERS OF THE PALLET RACK. THE SUPPORT BLOCK IS REQUIRED FOR WING-END TYPE PALLETS. STACKING OF BOX PALLET UNITS EQUIPPED WITH WIDE-TYPE PALLET RACKS CAN BE ACCOMPLISHED BY SIDE-HANDLING OR END HANDLING WITH A FORKLIFT TRUCK, AS DESIRED, TO PRODUCE MOST EFFICIENT SPACE UTILIZATION.
5. WHEN NARROW-TYPE PALLET RACKS ARE USED, A SUPPORT BLOCK 4" X 4" X 8" (4 REQD PER FIRST LAYER UNIT) WILL BE REQUIRED AS SHOWN ON PAGE 46. THE HEIGHT OF THE BLOCKS WILL BE AS REQUIRED FOR EITHER THE FLUSH STRINGER TYPE OR FLUSH POST TYPE PALLET, SO AS TO TRANSMIT THE WEIGHT OF THE UPPER UNITS TO THE MAGAZINE FLOOR, THROUGH THE VERTICAL MEMBERS OF THE PALLET RACKS DOWN THROUGH THE SUPPORT BLOCKS.
6. WHEN STORING BOX PALLET UNITS OF CONTAINERS OTHER THAN FIBERBOARD BOXES, PALLET RACKS CAN ONLY BE USED IF THE HEIGHT OF THE CONTAINERS DOES NOT EXCEED THE HEIGHT OF THE PALLET RACK. IF NARROW-TYPE PALLET RACKS ARE USED AND THE HEIGHT OF THE CONTAINERS DOES NOT PERMIT THE PALLET STRINGERS OF AN UPPER PALLET UNIT TO BEAR DIRECTLY ON THE TOP HORIZONTAL MEMBERS OF THE PALLET RACK, AS SHOWN IN THE STACKING PROCEDURES FOR END-HANDLED UNITS ON PAGE 46, SPANNER ASSEMBLIES MUST BE USED BETWEEN LAYERS OF UNITS SO THAT THE WEIGHT OF AN UPPER UNIT DOES NOT CONTACT THE TOP OF THE CONTAINERS OF THE LOWER UNIT. IF WIDE-TYPE PALLET RACKS ARE USED AND THE BOTTOM DECK BOARDS (RUNNERS) OF THE UPPER PALLET BEAR DIRECTLY ON THE TOP HORIZONTAL MEMBERS OF THE PALLET RACK, SPANNER ASSEMBLIES WILL NOT BE REQUIRED. IF NARROW TYPE PALLET RACKS ARE USED AND THE PALLET IS BEING SIDE-HANDLED, A SPANNER ASSEMBLY MUST BE USED TO PERMIT THE REMOVAL OF THE FORKLIFT TINES.

(CONTINUED ON PAGE 45)

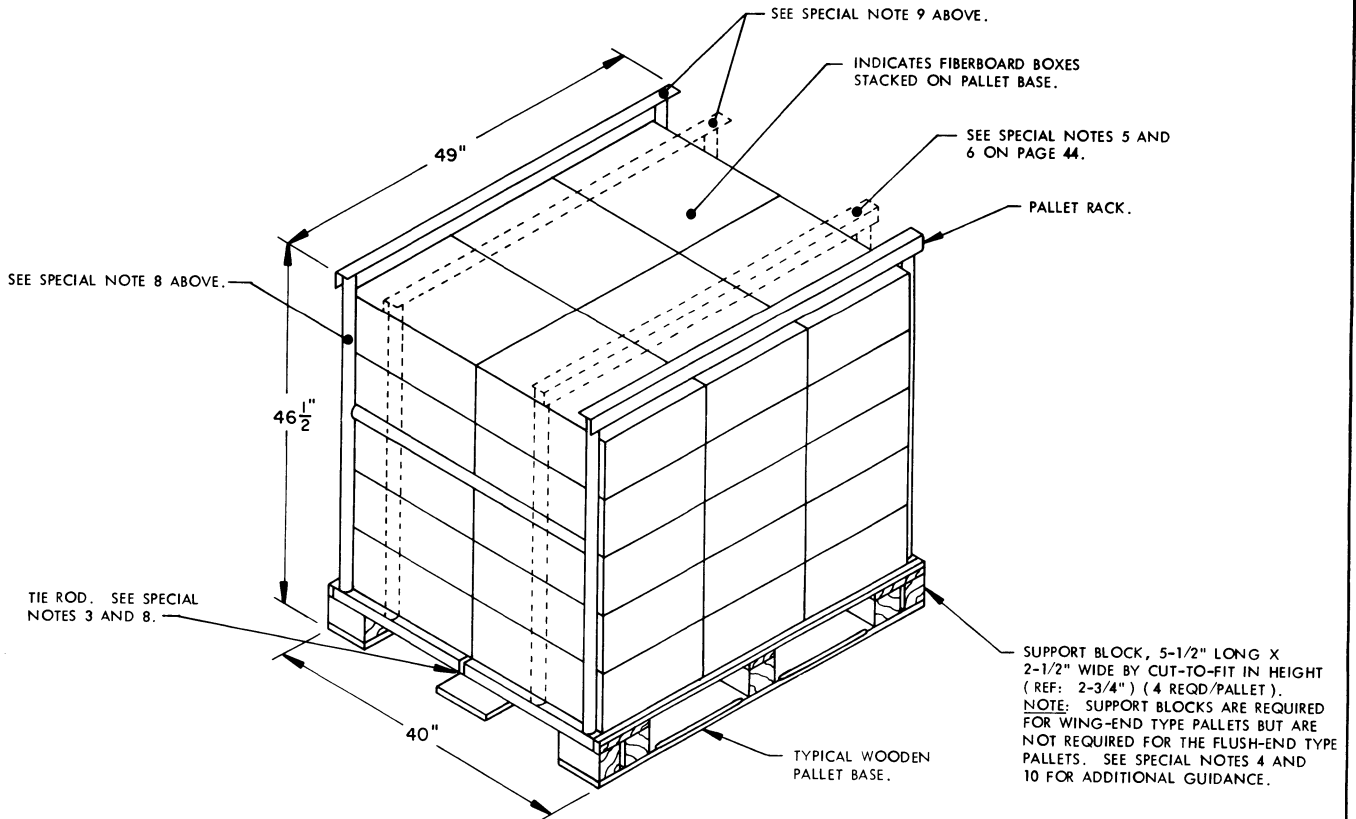


PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 612,000 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

(SPECIAL NOTES CONTINUED FROM PAGE 44)

7. THE FIBERBOARD BOXES, DRUMS, OR OTHER CONTAINERS STORED ON THE PALLET BASES MUST BE OF A SIZE WHICH WILL FIT BETWEEN THE VERTICAL FRAME MEMBERS OF THE PALLET RACK. HOWEVER, A SLIGHT OVERHANG AT THE OTHER TWO SIDES OF A PALLET IS PERMITTED. THE USE OF AN OVERHANG PATTERN MAY BE BENEFICIAL DUE TO THE SIZE OF THE UNIT PACK BEING STORED.
8. METAL-TO-METAL PINCH POINTS WITHIN A PALLET RACK ASSEMBLY MUST BE KEPT FREE OF EXPLOSIVE MATERIAL. FOR EXAMPLE, PIECES OF FIBERBOARD OR HEAVY PAPER SHOULD BE USED TO COVER ENDS OF TIE RODS, AND SLIP TYPE SOCKET JOINTS OF THE ASSEMBLY MUST BE CLEANED BEFORE ASSEMBLING PALLET RACK.
9. IF A RACK HAS PALLET LOCATING DEVICES ATTACHED TO THE TOP HORIZONTAL MEMBERS AND THEY INTERFERE WITH PROPER STACKING, PIECES OF WOODEN DUNNAGE SHOULD BE USED ON TOP OF THE HORIZONTAL MEMBERS TO PROVIDE A LEVEL SURFACE FOR AN UPPER BOX PALLET UNIT.
10. SHIMS OF REQUIRED THICKNESS PLYWOOD WILL BE USED IN CONJUNCTION WITH 4" X 4" X 8" SUPPORT BLOCKS TO PROVIDE SOLID CONTACT WITH THE STRINGER BOARD OF THE PALLET UNIT.
11. PALLETIZATION OF ITEMS IS SOLELY FOR THE CONVENIENCE OF STORAGE AND WILL NOT BE USED FOR SHIPPING ITEMS.



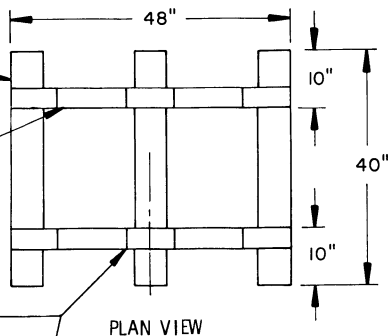
RACK INSTALLATION

A TYPICAL PALLET UNIT IS SHOWN WITH A PALLET RACK INSTALLED ON A 4-WAY ENTRY, WING-END TYPE PALLET (MIL-P-15011). USE OF FLUSH-END TYPE PALLETS NEGATES THE REQUIREMENT FOR SUPPORT BLOCKS.

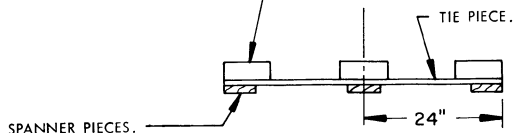
SPANNER PIECE, 2" X 6" X 40" (3 REQD).
NAIL THROUGH THE TIE PIECES TO EACH
SUPPORT BLOCK W/2-12d NAILS.

TIE PIECE, 1" X 4" X 48" (2 REQD).
NAIL TO THE SUPPORT BLOCKS
W/2-6d NAILS EACH.

SUPPORT BLOCK, 4" X 4" X 8"
(6 REQD). SEE SPECIAL NOTE
5 ON PAGE 44 AND SPECIAL
NOTE 10 ON PAGE 45.

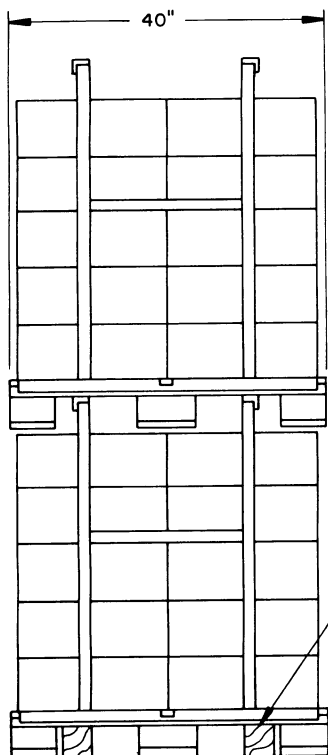


PLAN VIEW



END VIEW

SPANNER ASSEMBLY

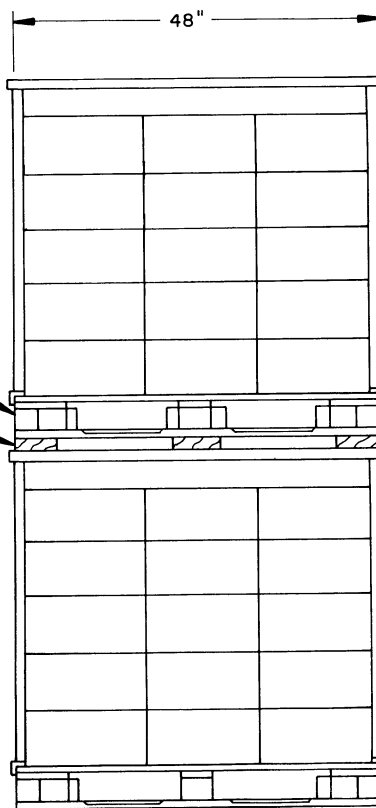


STACKING PROCEDURES FOR END-HANDLED PALLET UNITS

PROVIDE SHIMS AS REQUIRED.
SEE SPECIAL NOTE 10 ON
PAGE 45.

SPANNER ASSEMBLY. REQUIRED
BETWEEN LAYERS WHEN
PALLET UNITS ARE SIDE-HANDLED.

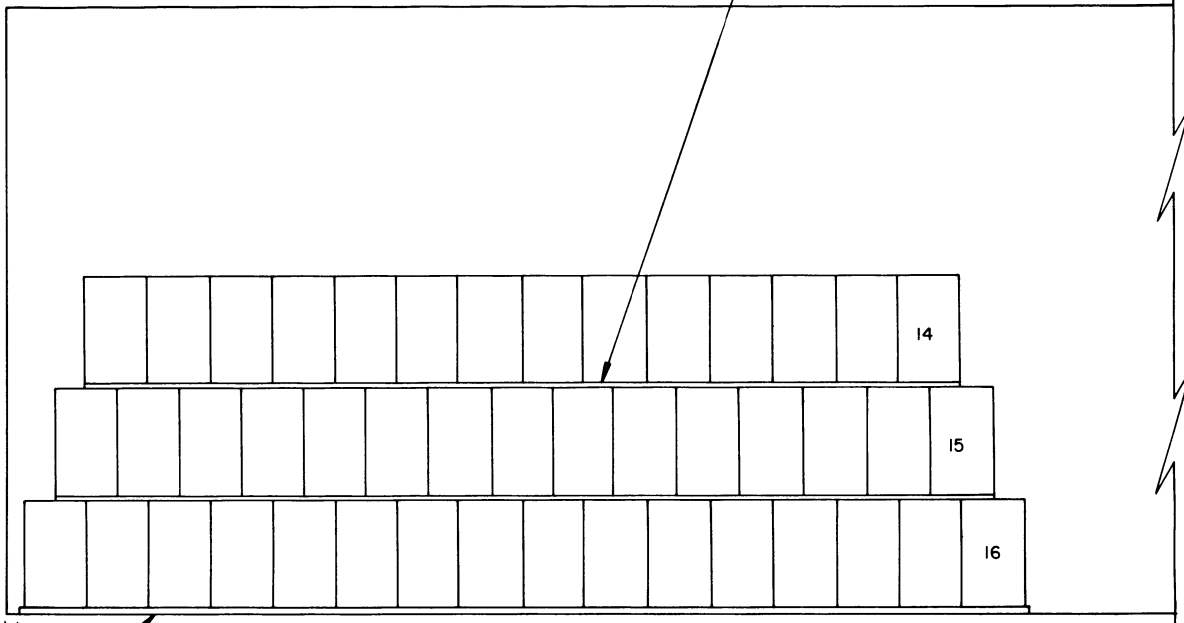
4" X 4" X 8" SUPPORT BLOCK (4
REQD PER FIRST LAYER UNIT EQUIPPED
WITH NARROW-TYPE PALLET RACK).
POSITION TO BE UNDER THE VERTICAL
MEMBERS OF THE PALLET RACK. SEE
SPECIAL NOTE 5 ON PAGE 44 AND
SPECIAL NOTE 10 ON PAGE 45.



STACKING PROCEDURES FOR SIDE-HANDLED PALLET UNITS

NOTE: IF DESIRED, IN LIEU OF 4" X 4" MATERIAL, TWO
PIECES OF 2" X 4" MATERIAL MAY BE POSITIONED ON EDGE
AND LAMINATED.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (4 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

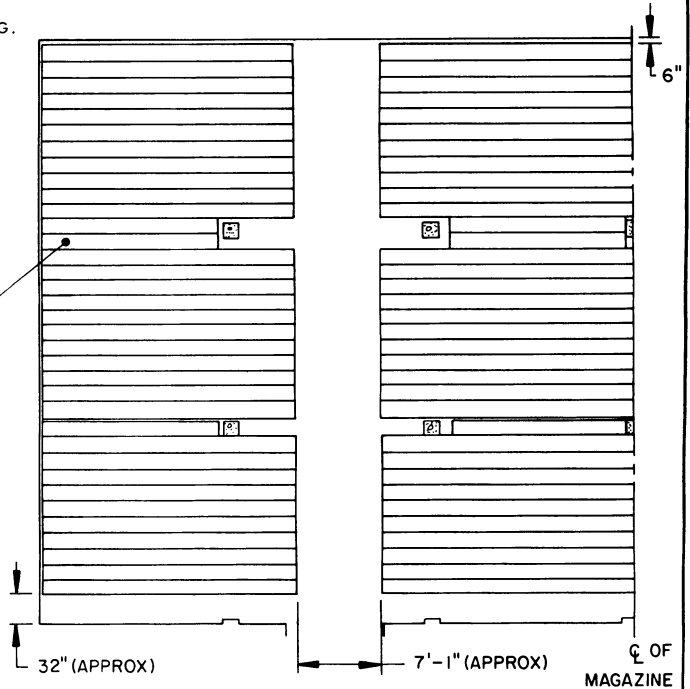


3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
45 DRUMS PER STACK.
3,060 DRUMS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 16 LONG	1" X 4"	84	28
	2" X 4"	47	32
SINGLE STACK 11 LONG	1" X 4"	51	17
	2" X 4"	30	20

11-LONG STACK,
30 DRUMS PER STACK.

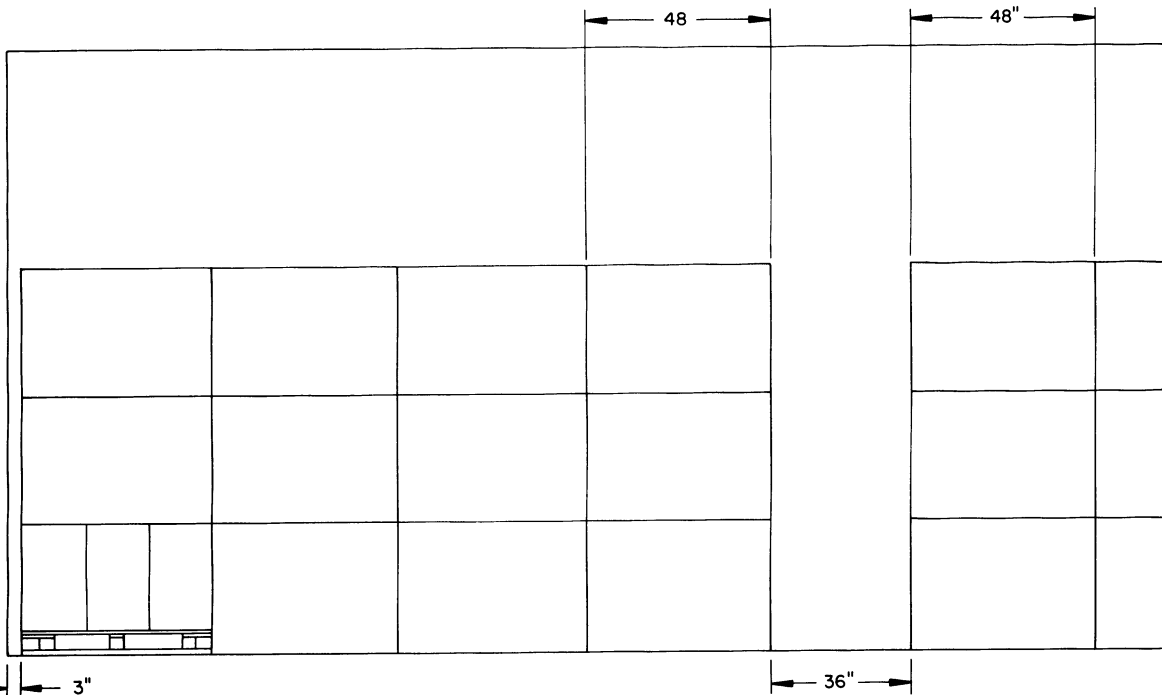


PLAN VIEW
(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 428,400 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

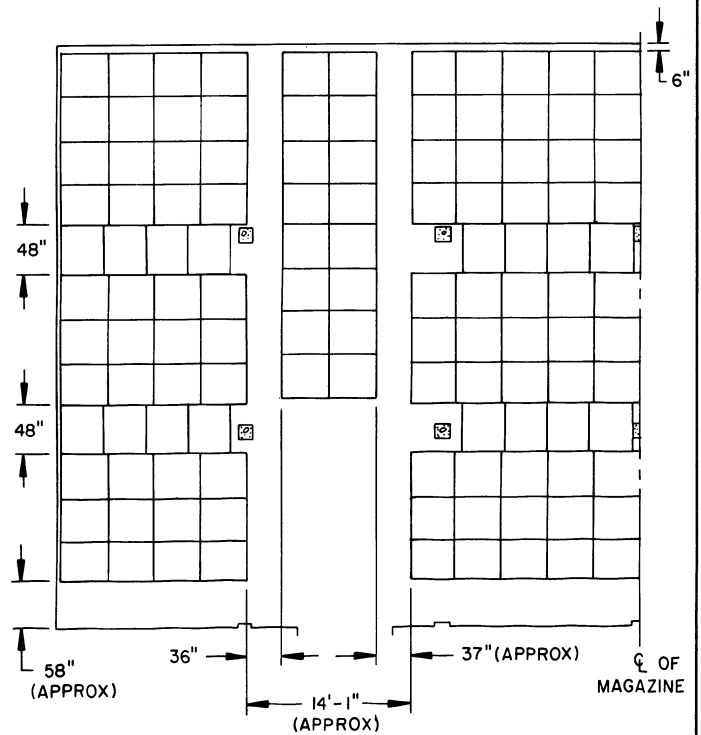
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR FIBERBOARD DRUMS.
DRUM DIMENSIONS-----27" HIGH BY 16" DIAMETER.
2. FIBERBOARD DRUMS, EXCEPT FOR DINITROGUANIDINE AS SHOWN ON PAGE 61 WILL NOT BE STACKED MORE THAN THREE LAYERS HIGH.
3. THE DRUMS IN EACH LAYER WILL BE STAGGERED ABOVE THE DRUMS IN THE LAYER UNDERNEATH, AS SHOWN.
4. NOTE: JOINTS IN INTERMEDIATE AND FLOOR DUNNAGE WILL BE STAGGERED.
5. NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF DRUMS PER LAYER.



STACK ELEVATION

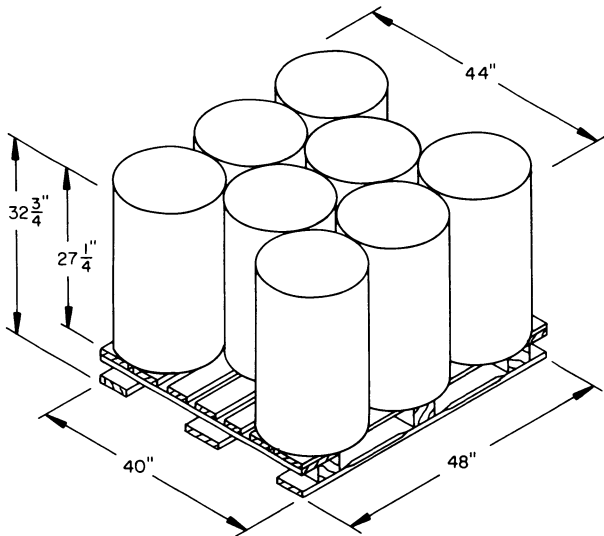
12 PALLET PER STACK
96 DRUMS PER STACK



PARTIAL PLAN VIEW

(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 409,920 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.



TYPICAL PALLET UNIT A

DRUM SIZE ----- 16" DIA X 27-1/4" HIGH (TYPICAL)

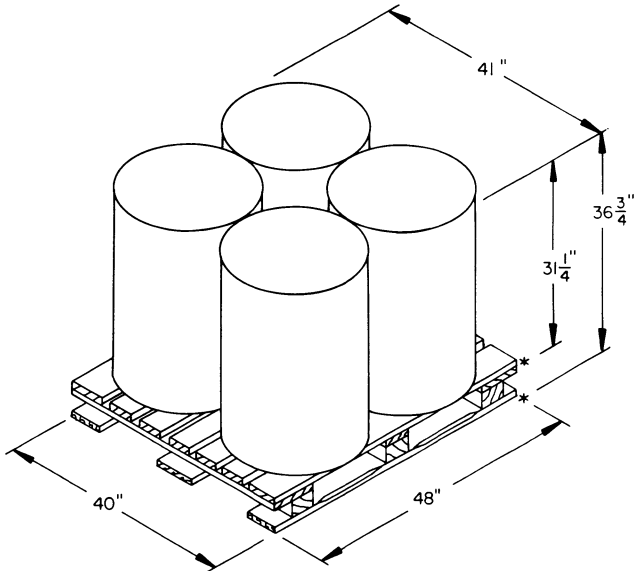
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR FIBERBOARD DRUMS OF VARIOUS SIZES PLACED ON 40" X 48" PALLETS.

TYPICAL PALLET UNIT DIMENSIONS:

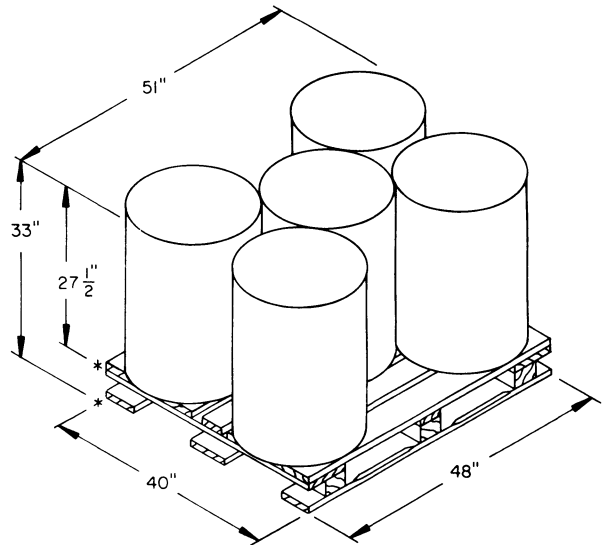
UNIT A -----	44"L X 48"W X 32-3/4"H
UNIT B -----	42"L X 48"W X 36-3/4"H
UNIT C -----	40"L X 51"W X 33"H

2. THE DRUM SIZES SHOWN ARE TYPICAL; ANY SIZE DRUM MAY BE PLACED ON A PALLET FOR STORAGE PURPOSES. ANY SIZE PALLET MAY BE USED, HOWEVER A SIZE SHOULD BE SELECTED WHICH WILL BE NEARLY FILLED WITH DRUMS IN ORDER TO PROVIDE GOOD STACKABILITY. ALSO, A PALLET SIZE SHOULD BE SELECTED THAT WILL PROVIDE FOR FULL OR ALMOST FULL BEARING OF THE DRUMS ON A PALLET. **OVERHANG OF DRUMS ON A PALLET IS LIMITED TO NOT MORE THAN TWO INCHES (2").**
3. PALLETIZED DRUMS WILL NOT BE STACKED MORE THAN THREE LAYERS HIGH.
4. PALLETIZATION OF DRUMS IS SOLELY FOR THE CONVENIENCE OF STORAGE AND WILL NOT BE USED FOR SHIPPING OF DRUMS.



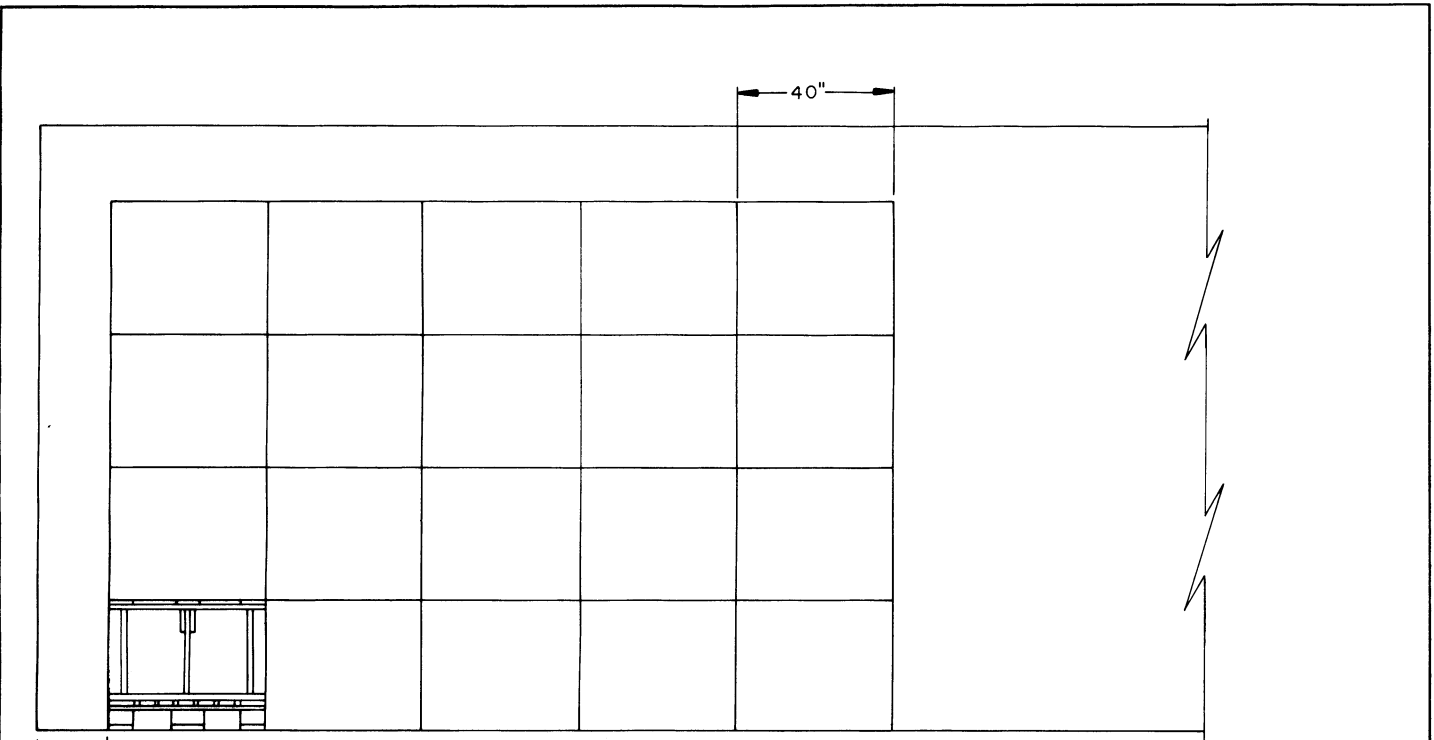
TYPICAL PALLET UNIT B

DRUM SIZE ----- 20 1/2" DIA X 31-1/4" HIGH (TYPICAL)

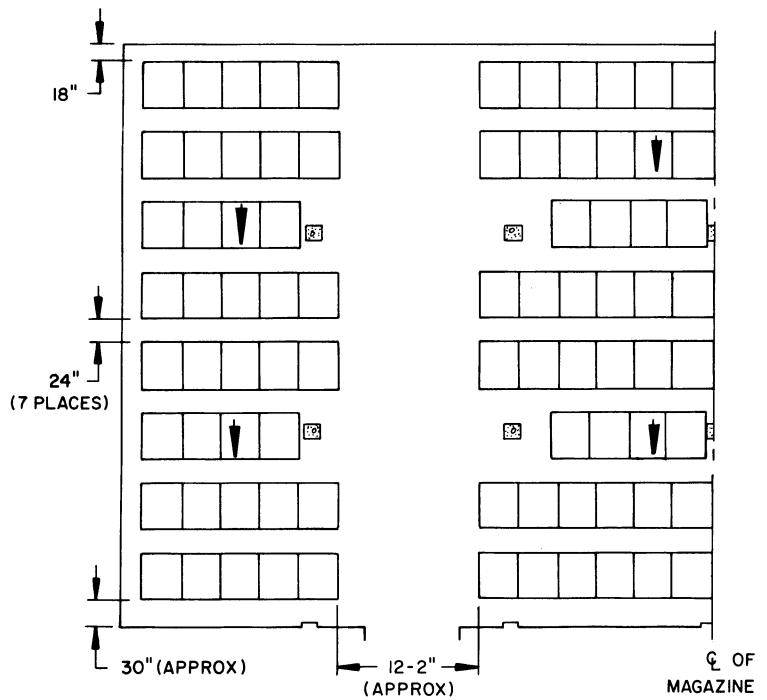


TYPICAL PALLET UNIT C

DRUM SIZE ----- 19" DIA X 27-1/2" HIGH (TYPICAL)



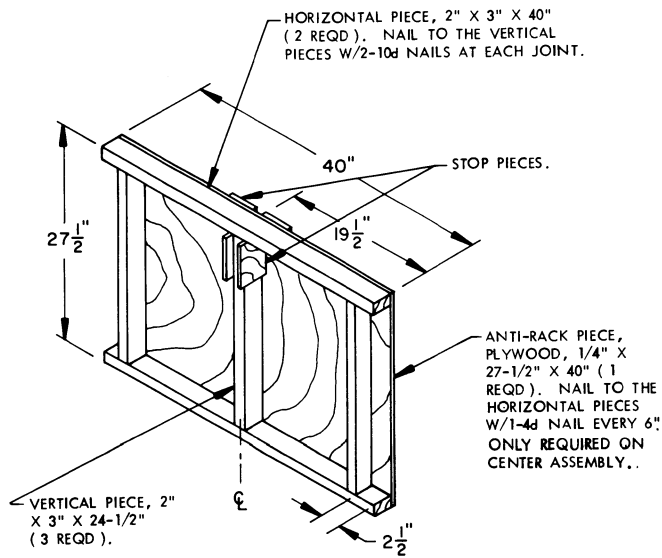
STACK ELEVATION



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

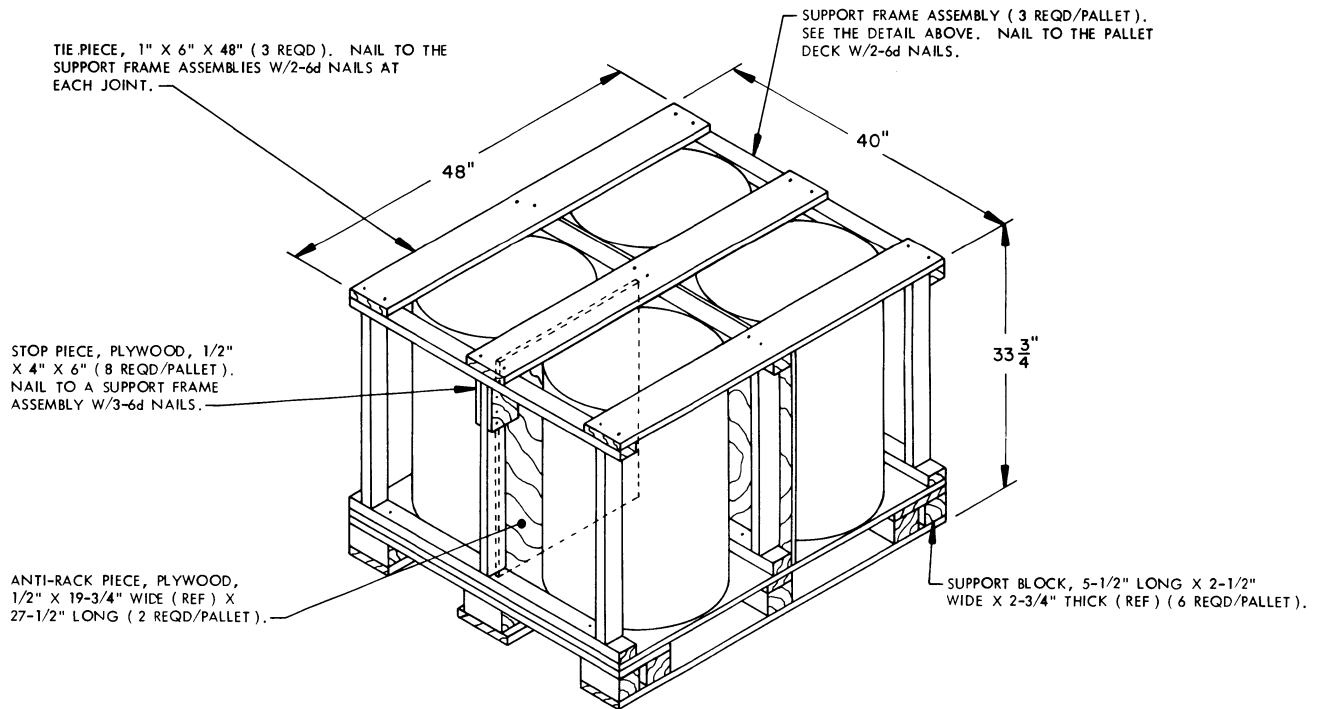
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE RDX, WET, IN FIBERBOARD DRUMS (PALLETIZED).
PALLET UNIT DIMENSIONS --- 40" LONG BY 48" WIDE BY 33-3/4" HIGH.
2. THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL DRUMS.
3. PALLETIZATION OF DRUMS IS SOLELY FOR THE CONVENIENCE OF STORAGE, AND MAY NOT BE USED FOR SHIPPING OF THIS ITEM.



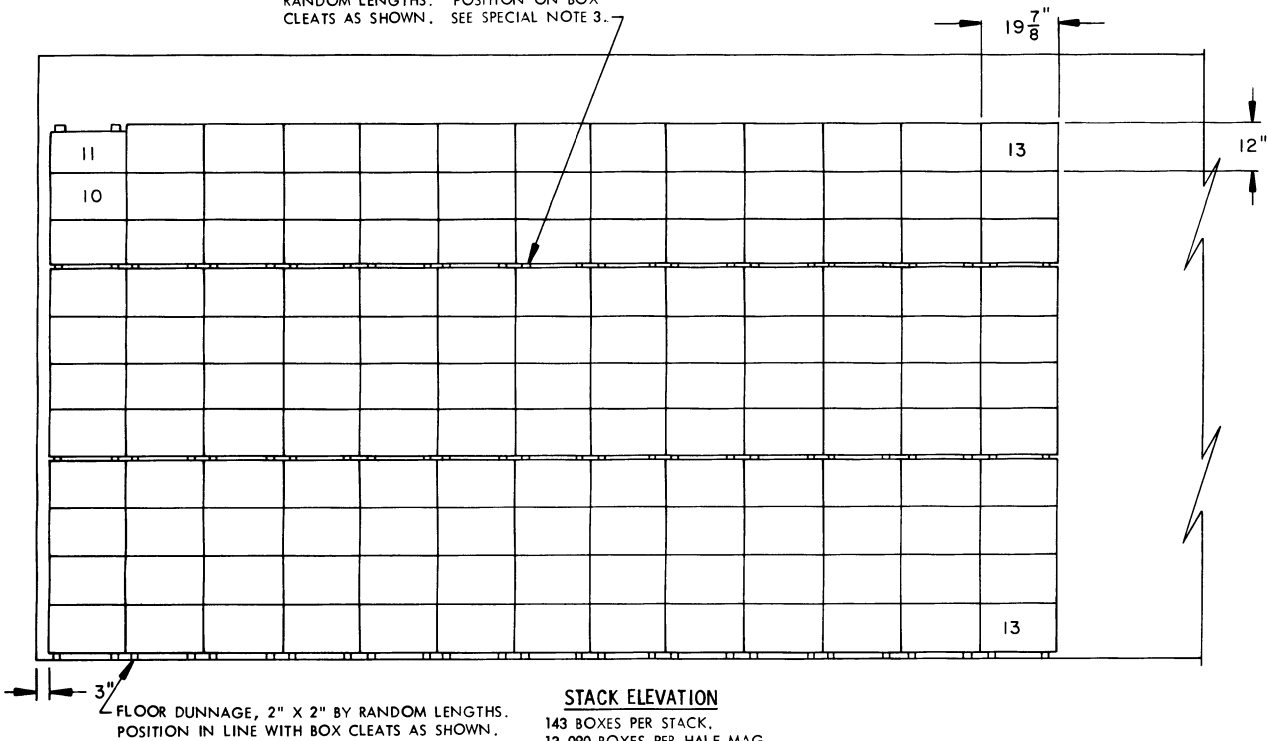
SUPPORT FRAME ASSEMBLY

THE DETAIL ABOVE DEPICTS THE CENTER SUPPORT FRAME ASSEMBLY. OMIT THE 1/4" PLYWOOD ANTI-RACK PIECE AND THE TWO STOP PIECES WHICH ARE NAILED THRU IT, FOR THE TWO OUTER ASSEMBLIES.



PALLET UNIT

INTERMEDIATE DUNNAGE, 1" X 2" BY
RANDOM LENGTHS. POSITION ON BOX
CLEATS AS SHOWN. SEE SPECIAL NOTE 3.



STACK ELEVATION

143 BOXES PER STACK.
13,090 BOXES PER HALF MAG.

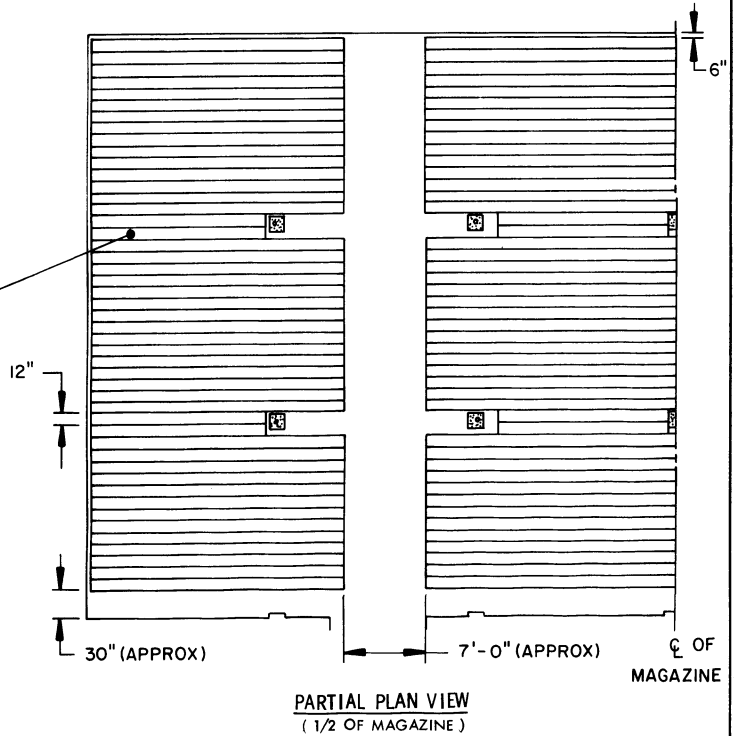
FLOOR DUNNAGE, 2" X 2" BY RANDOM LENGTHS.
POSITION IN LINE WITH BOX CLEATS AS SHOWN.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 13 LONG	1" X 2"	52	9
	2" X 2"	26	9
SINGLE STACK 9 LONG	1" X 2"	36	6
	2" X 2"	18	6

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR A WOODEN BOX.
BOX DIMENSIONS -- 19-7/8"
LONG BY 12" WIDE BY 12" HIGH.
- WHENEVER PRACTICABLE THE LARGEST LOT SHOULD
BE STORED IN THE REAR OF THE MAGAZINE. LOTS
WILL NOT BE MIXED WITHIN STACKS. A THREE INCH
(3") SEPARATION WILL BE ALLOWED BETWEEN AD-
JACENT LOTS. SMALL LOTS AND/OR PARTIAL STACKS
MAY BE STORED IN THE FRONT OF THE MAGAZINE.
- INTERMEDIATE DUNNAGE MUST BE USED ON EVERY
FOURTH AND EIGHTH LAYERS.
- THE NUMBERS SHOWN IN THE STACK ELEVATION
INDICATE THE QUANTITY OF BOXES PER LAYER.

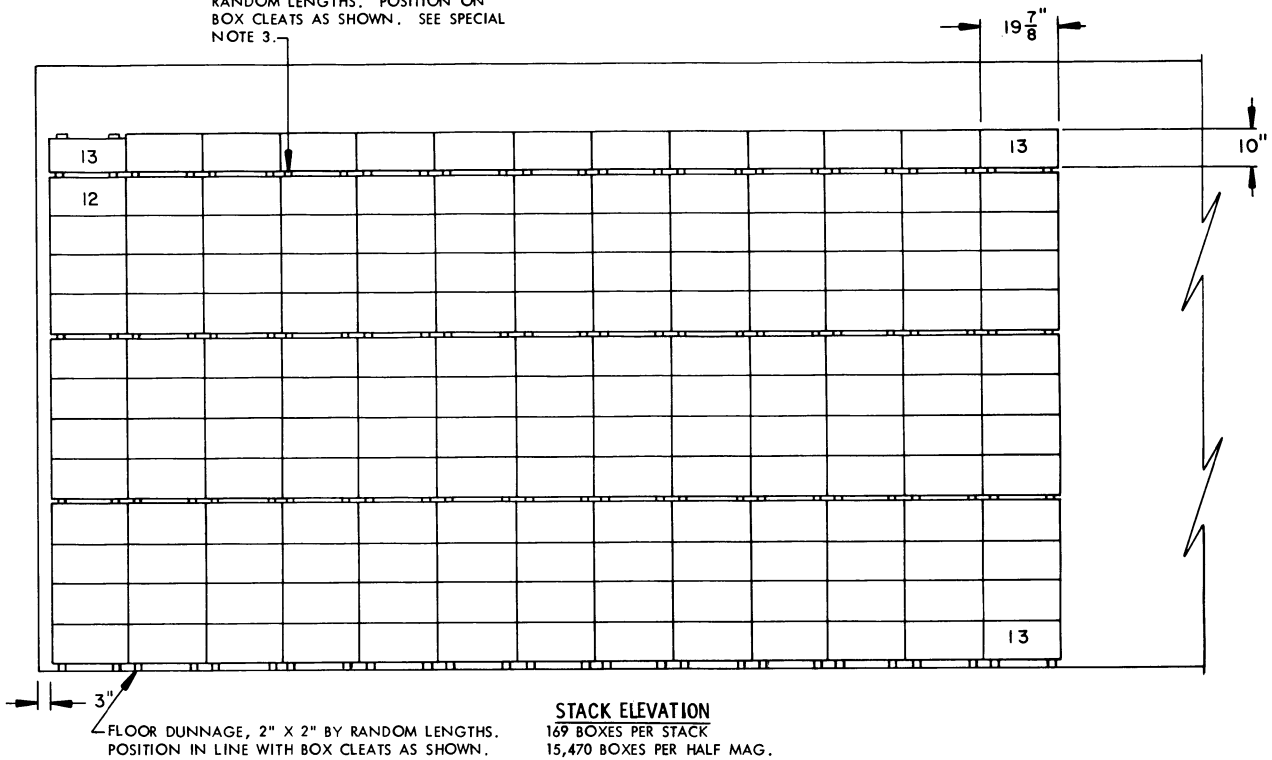
9- LONG STACK.
99 BOXES
PER STACK.



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE
IS 661,700 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

INTERMEDIATE DUNNAGE, 1" X 2" BY RANDOM LENGTHS. POSITION ON BOX CLEATS AS SHOWN. SEE SPECIAL NOTE 3.



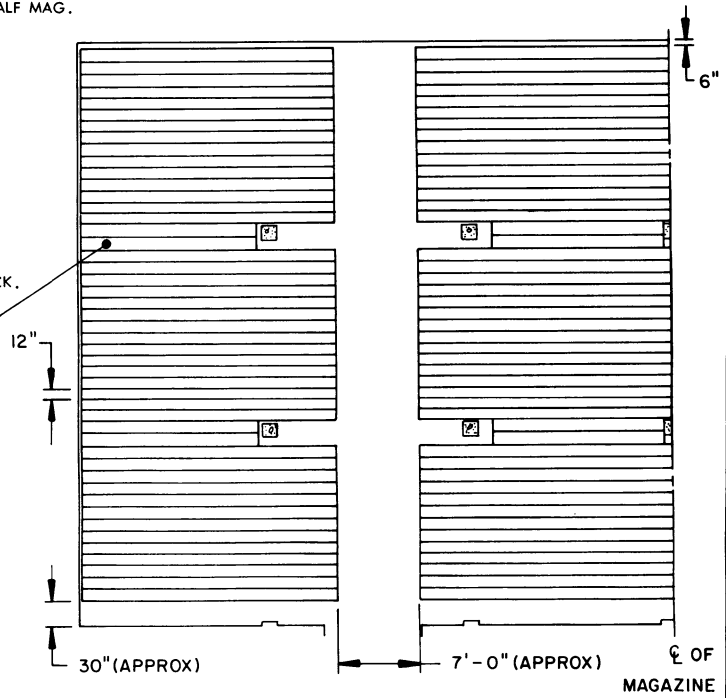
STACK ELEVATION
 169 BOXES PER STACK
 15,470 BOXES PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 13 LONG	1" X 2"	78	13
	2" X 2"	26	9
SINGLE STACK 9 LONG	1" X 2"	54	9
	2" X 2"	18	6

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR A WOODEN BOX.
 BOX DIMENSIONS --- 19-7/8" LONG BY 12" WIDE BY 10" HIGH.
- WHENEVER PRACTICABLE THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE MAGAZINE. LOTS WILL NOT BE MIXED WITHIN STACKS. A THREE INCH (3") SEPARATION WILL BE ALLOWED BETWEEN ADJACENT LOTS. SMALL LOTS AND/OR PARTIAL STACKS MAY BE STORED IN THE FRONT OF THE MAGAZINE.
- INTERMEDIATE DUNNAGE MUST BE USED ON EVERY FOURTH, EIGHTH AND TWELFTH LAYERS.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER.

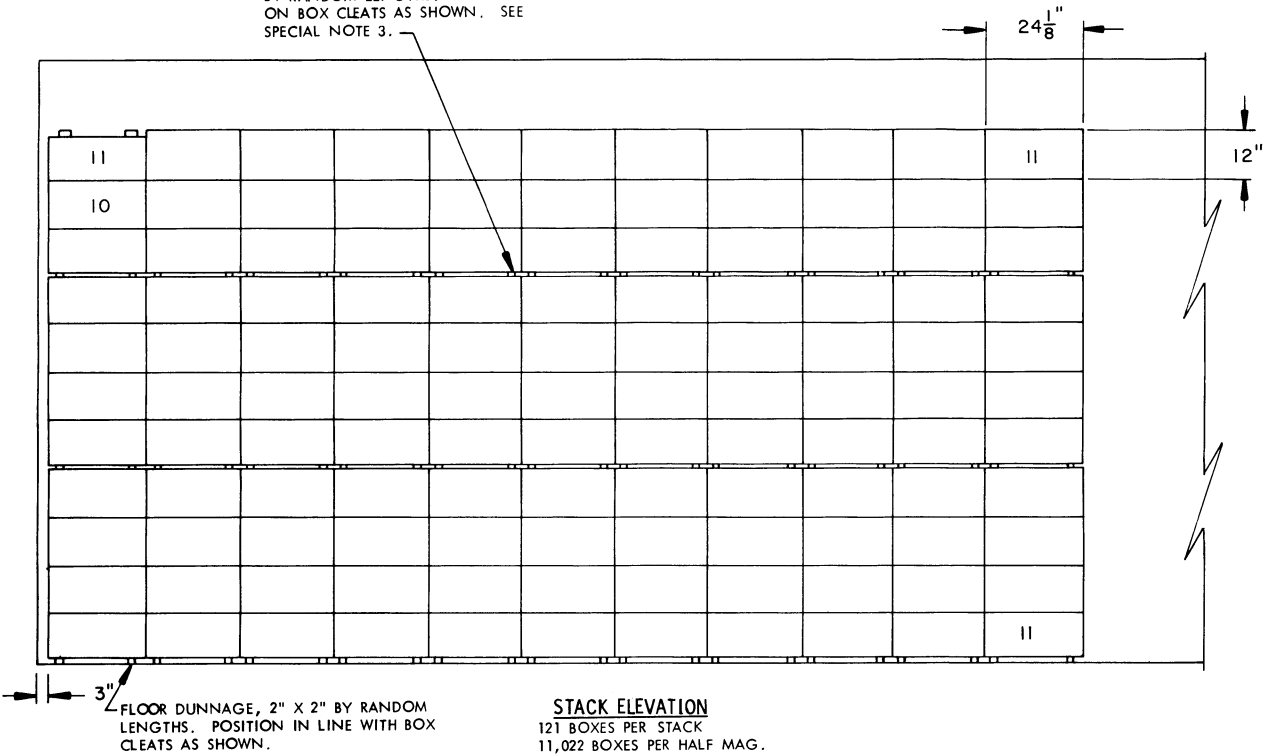
9-LONG STACK,
 117 BOXES
 PER STACK.



PARTIAL PLAN VIEW
 (1/2 OF MAGAZINE).

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 773,500 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

INTERMEDIATE DUNNAGE, 1" X 2" BY RANDOM LENGTHS. POSITION ON BOX CLEATS AS SHOWN. SEE SPECIAL NOTE 3.



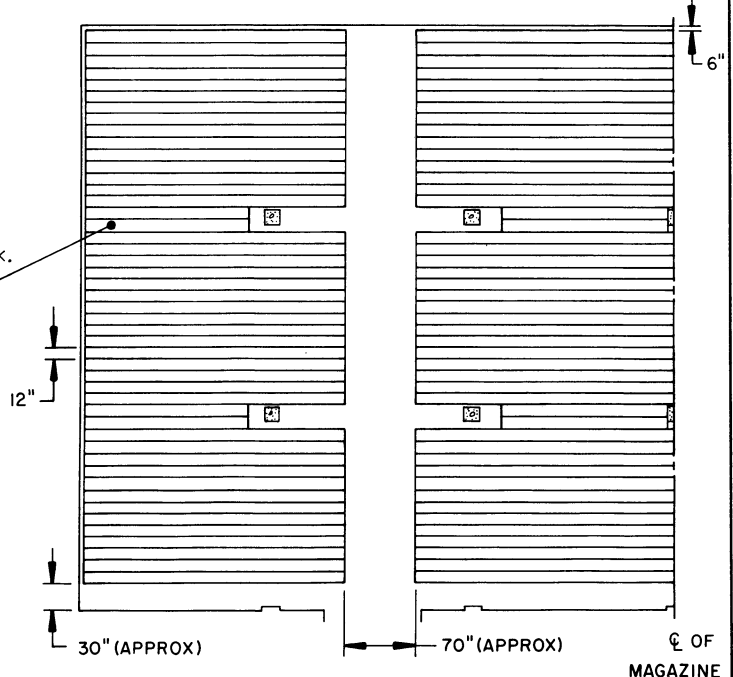
STACK ELEVATION
121 BOXES PER STACK
11,022 BOXES PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 11 LONG	1" X 2"	44	8
	2" X 2"	22	8
SINGLE STACK 7 LONG	1" X 2"	28	5
	2" X 2"	14	5

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR A WOODEN BOX.
BOX DIMENSIONS --- 24-1/8" LONG BY 12" WIDE BY 12" HIGH.
- WHENEVER PRACTICABLE THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE MAGAZINE. LOTS WILL NOT BE MIXED WITHIN STACKS. A THREE INCH (3") SEPARATION WILL BE ALLOWED BETWEEN ADJACENT LOTS. SMALL LOTS AND/OR PARTIAL STACKS MAY BE STORED IN THE FRONT OF THE MAGAZINE.
- INTERMEDIATE DUNNAGE MUST BE USED ON EVERY FOURTH AND EIGHTH LAYERS.
- THE NUMBERS SHOWN ON THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER.

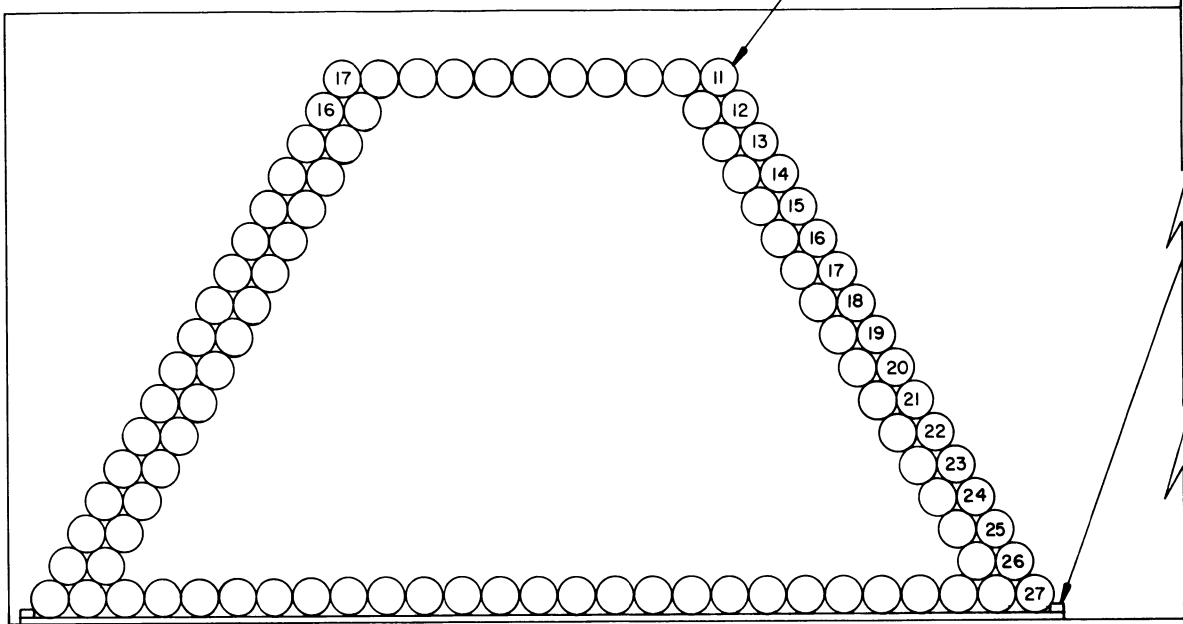
7 - LONG STACK.
77 BOXES
PER STACK.



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 568,700 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

NUMBERS INDICATE THE QUANTITY OF DRUMS PER LAYER.



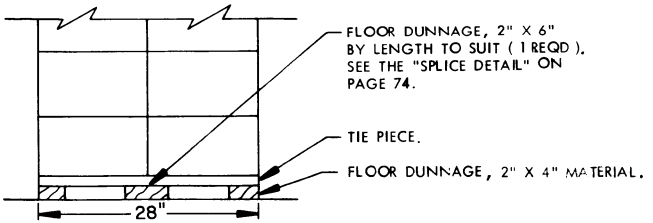
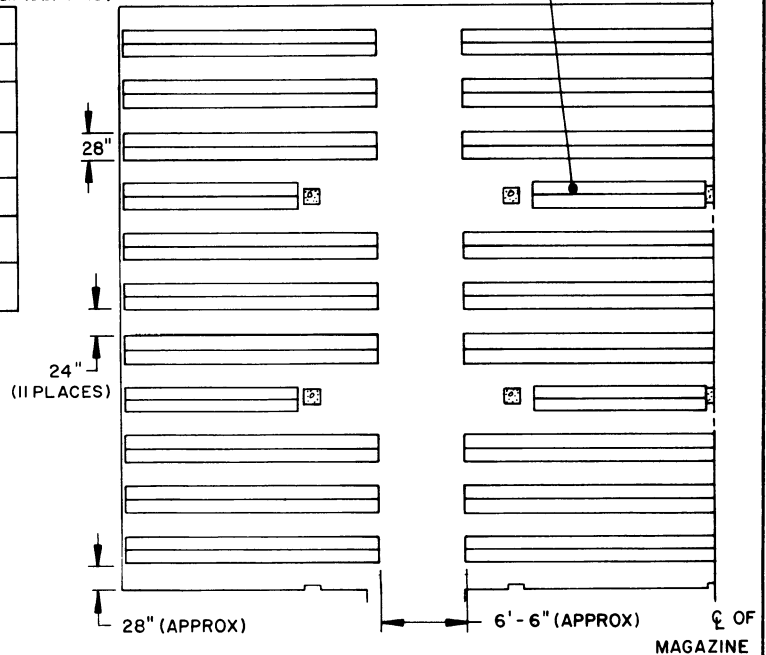
TIE PIECE, 2" X 4" X 28" (2 REQD PER STACK). NAIL TO FLOOR DUNNAGE W/3-10d NAILS AT EACH JOINT.

3" FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD). SEE THE "SPLICE DETAIL" ON PAGE 74.

STACK ELEVATION
323 DRUMS PER STACK.
12,988 DRUMS PER HALF MAG.

18- LONG STACK
170 DRUMS PER STACK.

BILL OF MATERIAL (PER DOUBLE STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
DOUBLE STACK 27 LONG	2" X 4" 2" X 6"	52 24	35 24
DOUBLE STACK 18 LONG	2" X 4" 2" X 6"	38 17	26 17
	NAILS	NO. REQD	POUNDS
DOUBLE STACK 27 LONG	10d (3")	18	1/2
DOUBLE STACK 18 LONG	10d (3")	18	1/2



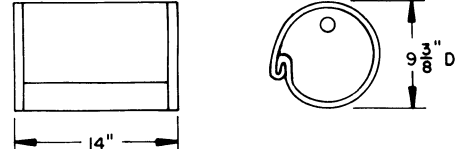
PARTIAL END VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR A METAL DRUM.
DRUM DIMENSIONS --- 14" HIGH BY 9-3/8" DIAMETER.
2. STAGGER ALL JOINTS IN FLOOR DUNNAGE.
3. THE OPENING END OF ALL DRUMS MUST BE FACING THE AISLE.
4. CAUTION: ALL NAILING MUST BE DONE OUTSIDE OF THE MAGAZINE.
5. THE WATER SHED SEAM ON THE DRUM MUST BE TURNED DOWN TO AVOID GATHERING OF MOISTURE.
6. THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL DRUMS.

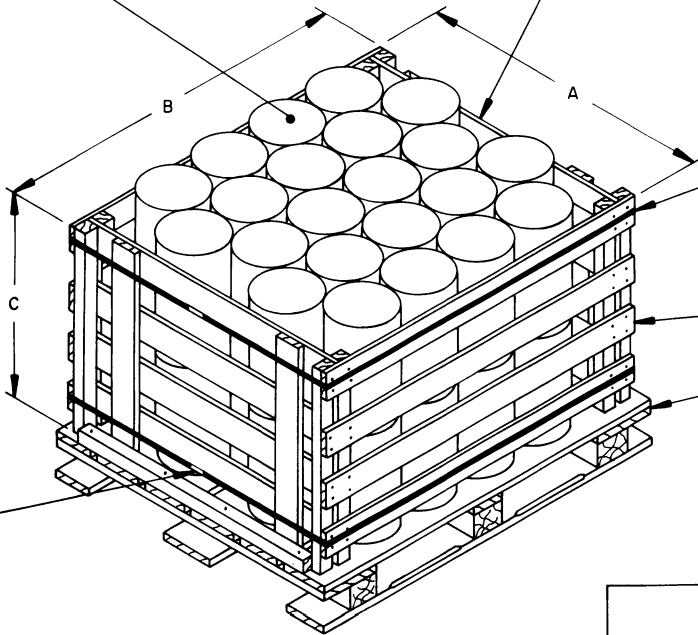
THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 324,700 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.



DRUM DETAIL
SEE SPECIAL NOTE 5.

INDICATES BLACK POWDER
PACKED IN METAL DRUM.
POSITION EACH DRUM
WITH THE OPENING END
AT THE TOP.

END PANEL (2 REQD). INSERT EACH END
BETWEEN CLEATS OF SIDE PANELS AS SHOWN.
SEE THE DETAIL ON PAGE 57.



STRAP, STEEL, 3/4" X .025" BY
LENGTH TO ENCIRCLE THE BOX
(2 REQD). WIDER STRAPPING
MAY BE USED.

SIDE PANEL (2 REQD). SEE
THE DETAIL ON PAGE 57.

PALLET, 40" X 48".

SEAL, STRAP, SAME SIZE AS
STRAP (2 REQD). DOUBLE
NOTCH EACH SEAL.

BOX PALLET UNIT
44 DRUMS 8-1/4" D X 13-3/4" H (2 LAYERS)

BOX PALLET OF METAL DRUMS DIMENSIONAL CHART			
DRUM SIZE	DIMENSION		
	A	B	C
8-1/4" D X 13-3/4" H	39"	46-1/2"	26"
8" D X 16" H	38"	45-1/4"	30-1/2"
6" D X 14" H	39-1/2"	45-3/4"	27"
6" D X 7-1/2" H	39-1/2"	45-3/4"	28"

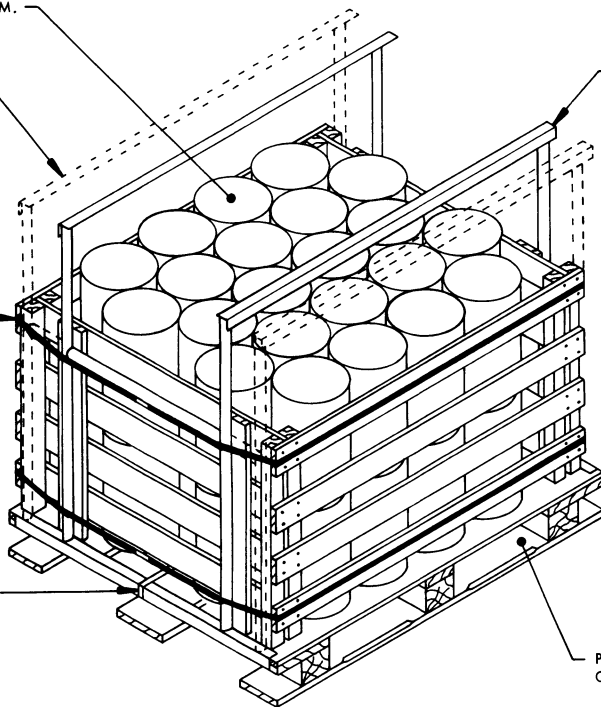
INDICATES BLACK POWDER
PACKED IN METAL DRUM.

INDICATES WIDE PALLET RACK.
SEE SPECIAL NOTE 4 ON PAGE 44.

INDICATES NARROW PALLET RACK.

STRAP, STEEL, 3/4" X .025"
BY LENGTH TO ENCIRCLE
THE BOX PALLET UNIT AND
PALLET RACK (2 REQD).

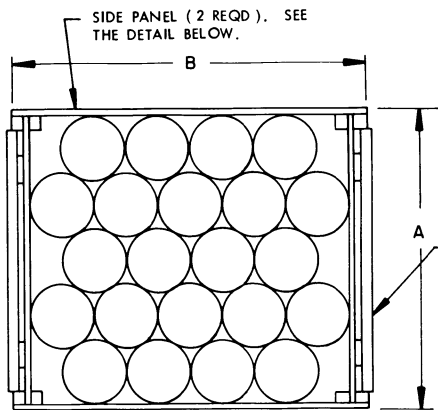
A TIE ROD MUST BE INSTALLED TO
TIE THE BASES OF THE TWO VER-
TICAL FRAME MEMBERS TOGETHER.



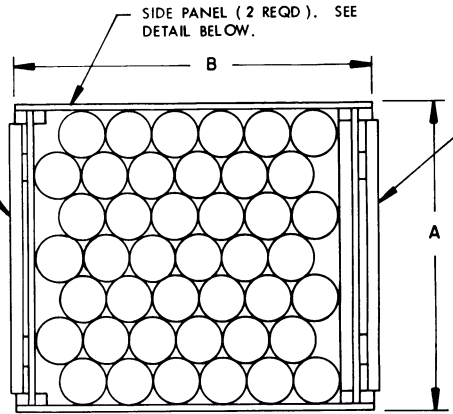
PALLET, 40" X 48" (1 REQD) SEE
GENERAL NOTE "R" ON PAGE 2.

APPLICATION OF PALLET RACKS

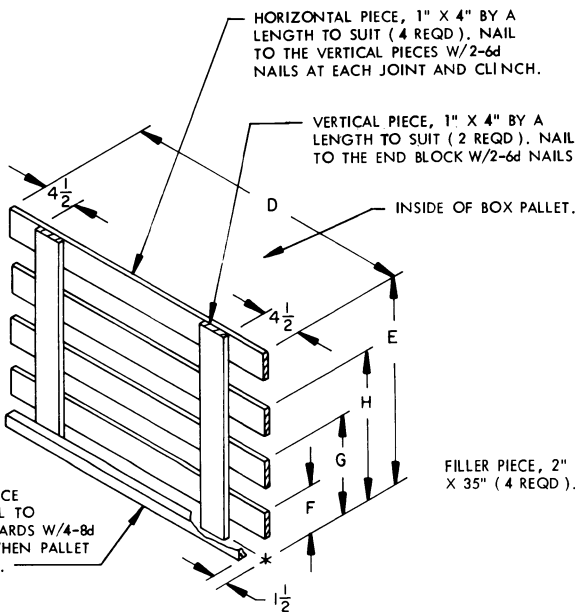
A NARROW PALLET RACK IS SHOWN. THE DOTTED LINES
INDICATE A WIDE PALLET RACK. SEE THE SPECIAL NOTES
ON PAGE 44 AND 45 FOR GUIDANCE IN THE USE OF
PALLET RACKS.



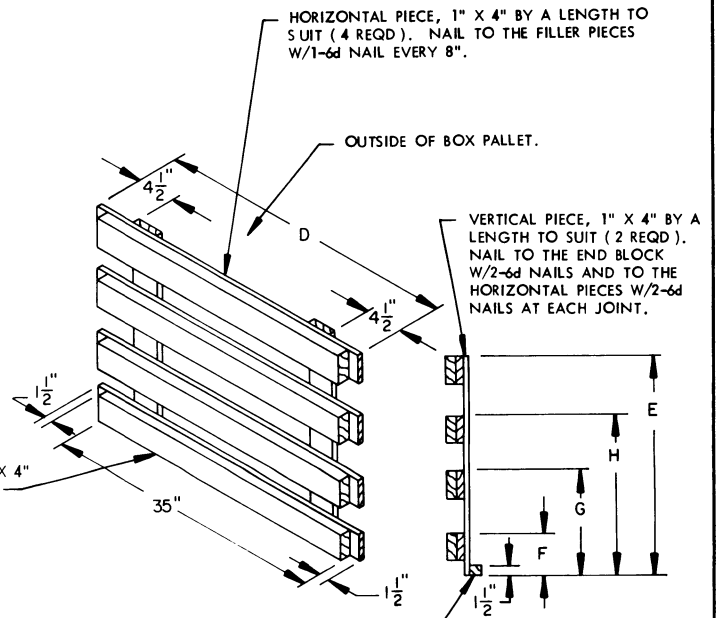
PLAN VIEW A
44 DRUMS 8" D X 16" H (2 LAYERS)



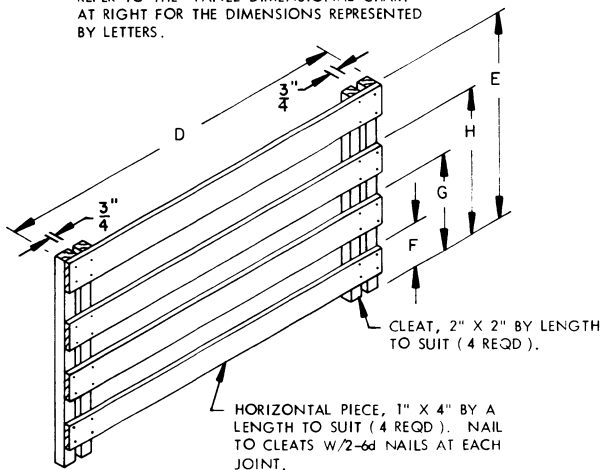
PLAN VIEW B
168 DRUMS 6" D X 7-1/2" H (4 LAYERS)
OR
84 DRUMS 6" D X 14" H (2 LAYERS)



END PANEL A
REFER TO THE "PANEL DIMENSIONAL CHART" AT RIGHT FOR THE DIMENSIONS REPRESENTED BY LETTERS.

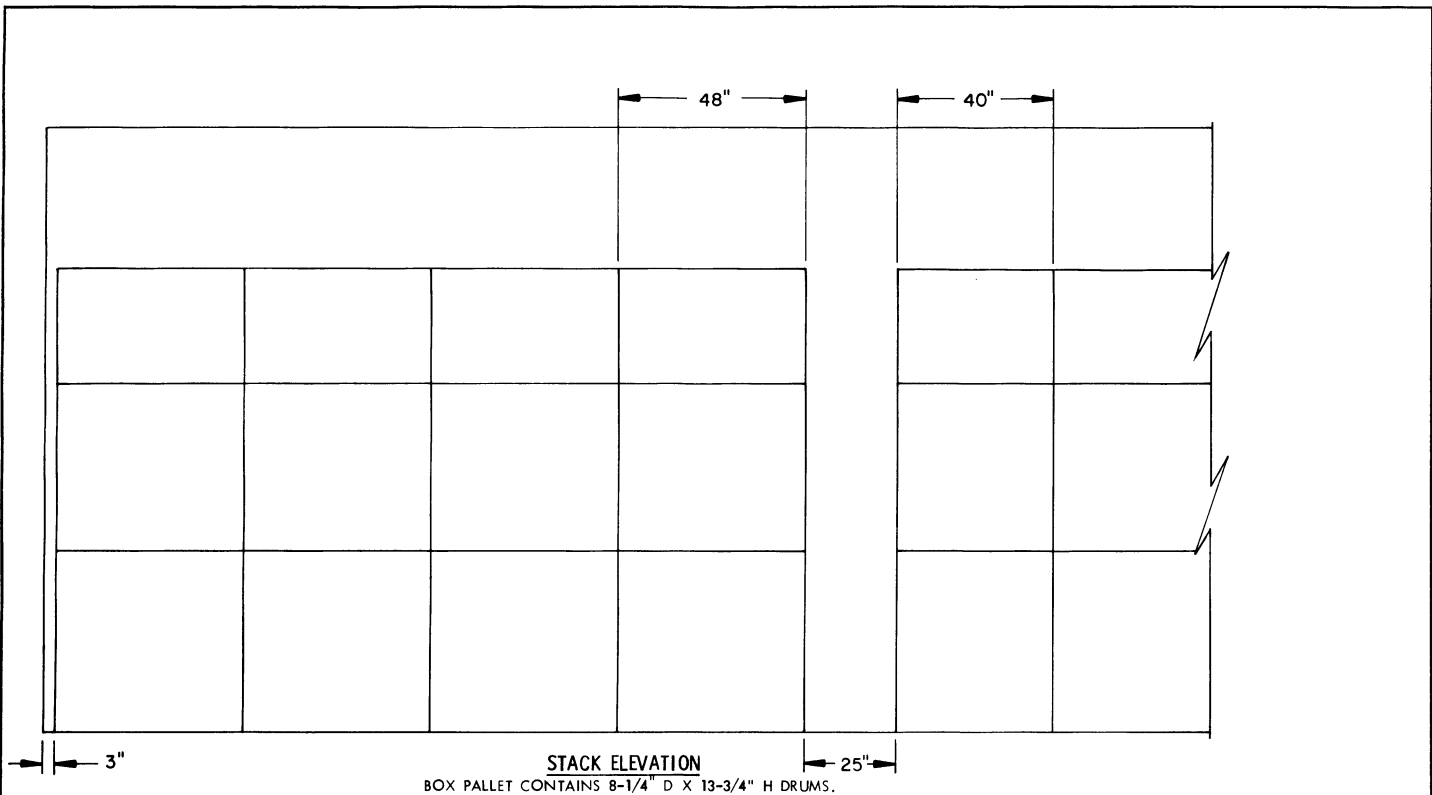


END PANEL B
ONLY ONE REQUIRED FOR BOX PALLET UNIT IN PLAN VIEW B.



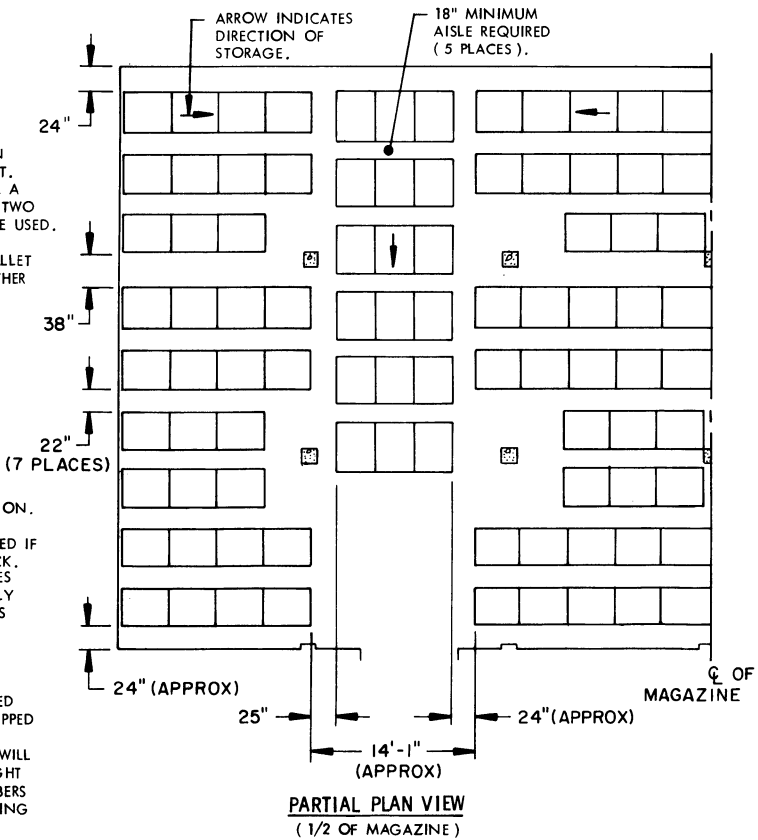
SIDE PANEL
REFER TO THE "PANEL DIMENSIONAL CHART" AT RIGHT FOR THE DIMENSIONS REPRESENTED BY LETTERS.

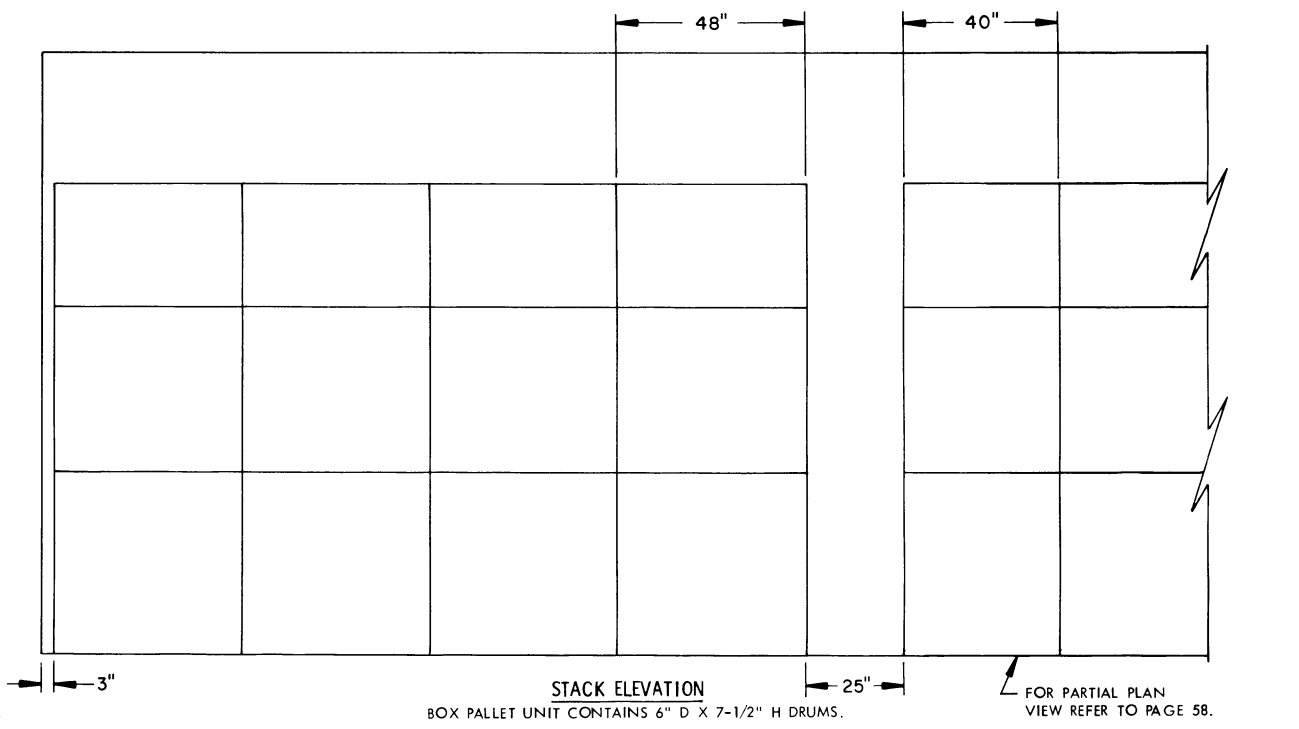
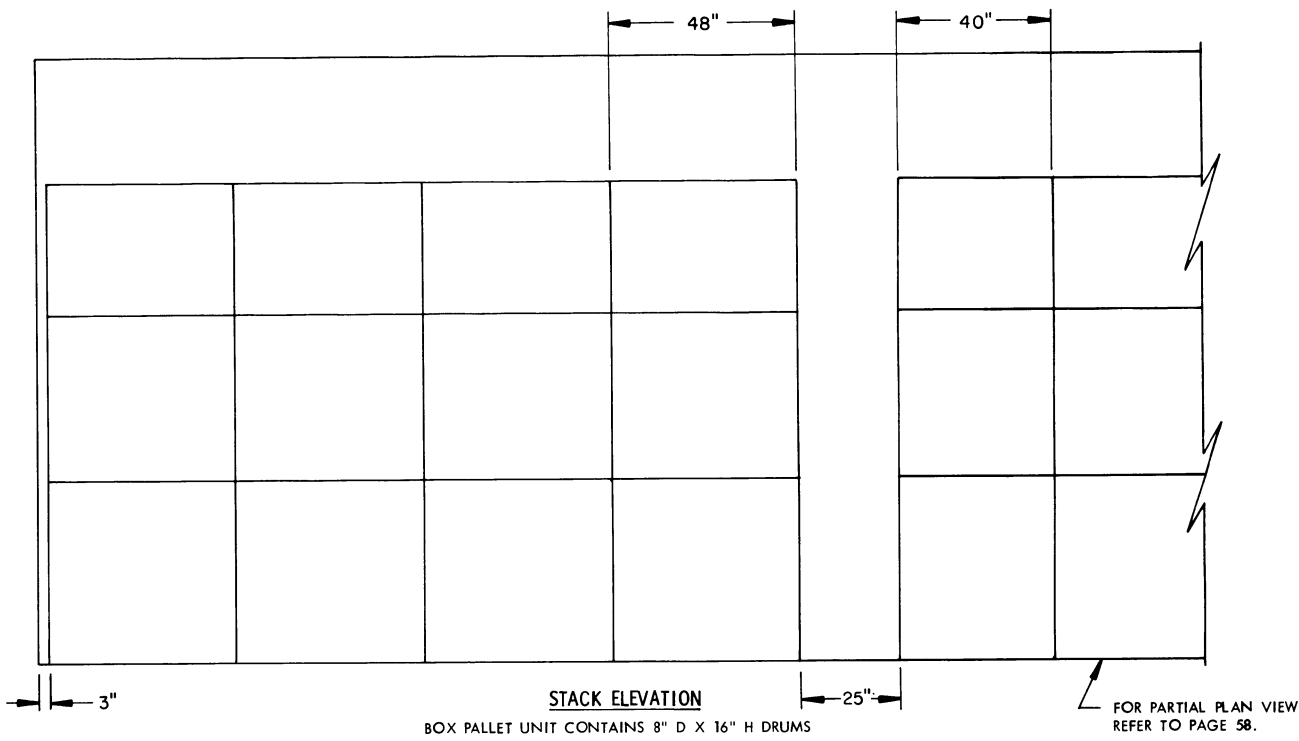
PANEL DIMENSIONAL CHART					
DRUM SIZE	END PANEL DIMENSION				
	D	E	F	G	H
8-1/4" D X 13-3/4" H	37-1/2"	26"	5-3/4"	12-1/4"	18-3/4"
8" D X 16" H	36-1/2"	30-1/2"	5-3/4"	14-1/2"	21"
6" D X 14" H	38"	26-1/2"	5-1/2"	12-1/2"	20-1/2"
6" D X 7-1/2" H	38"	28"	5-1/2"	13"	20-1/2"
DRUM SIZE	SIDE PANEL DIMENSION				
	D	E	F	G	H
8-1/4" D X 13-3/4" H	46-1/2"	26"	5-3/4"	12-1/4"	18-3/4"
8" D X 16" H	45-1/4"	30-1/2"	5-3/4"	14-1/2"	21"
6" D X 14" H	45-3/4"	26-1/2"	5-1/2"	12-1/2"	20-1/2"
6" D X 7-1/2" H	45-3/4"	28"	5-1/2"	13"	20-1/2"



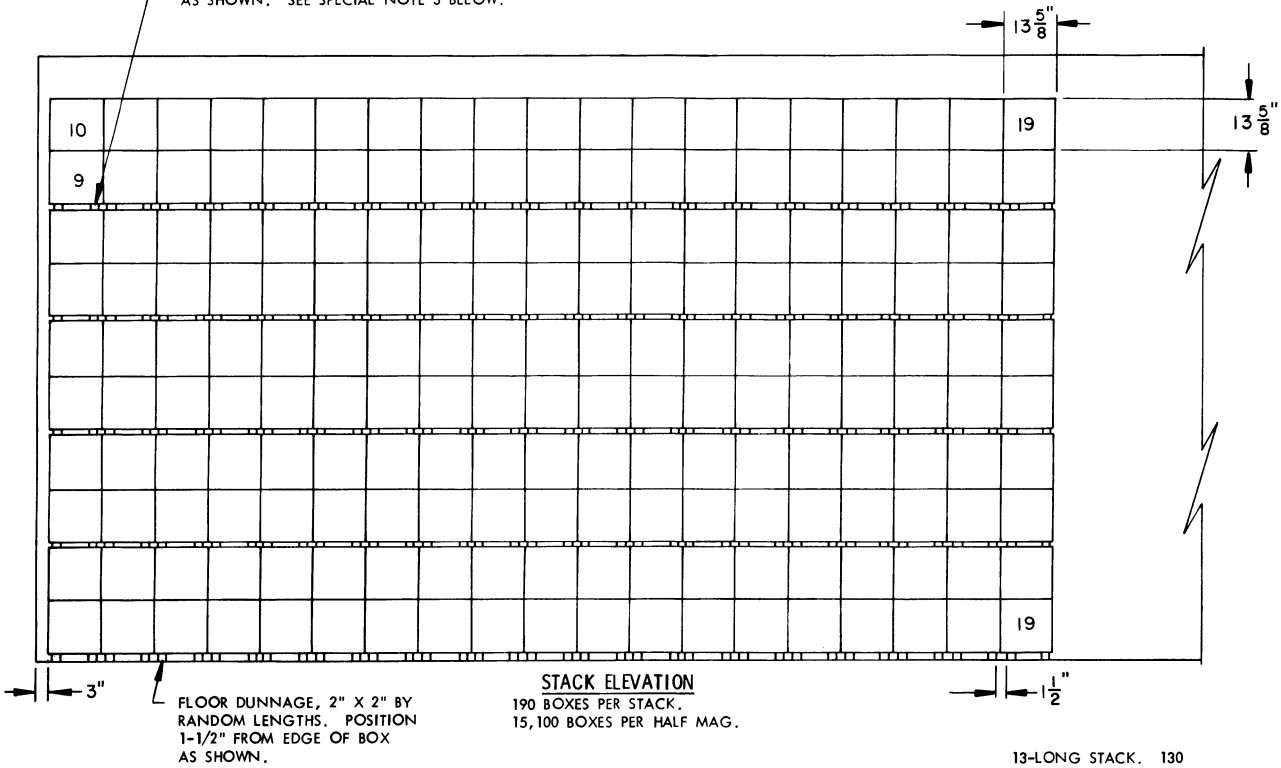
SPECIAL NOTES:

1. THE PROCEDURES DEPICTED ON PAGES 56 THROUGH 59 SPECIFICALLY APPLY TO STORAGE OF BLACK POWDER (PACKED IN METAL DRUM) (PALLETIZED) AND USING NARROW-TYPE PALLET RACKS FOR STACKING PALLET UNITS. SEE GENERAL NOTE "R" ON PAGE 2.
2. THE PALLET RACK DEPICTED IN THE "APPLICATION OF PALLET RACK" DETAIL ON PAGE 56 IS DESIGNATED IN TM 743-200-1 CHAPTER 5, AS A PALLET SUPPORT SET. THE PALLET RACK SHOWN IS MIL SPEC MIL-S-21859 (NSN 3990-00-542-4771 FOR A 40" X 48" PALLET). A TIE ROD MUST BE INSTALLED TO TIE THE BASES OF THE TWO VERTICAL FRAME MEMBERS TOGETHER. OTHER TYPE PALLET RACKS MAY ALSO BE USED.
3. ONE-HIGH LAYER PALLET UNITS AND TOP-LAYER UNITS DO NOT REQUIRE A PALLET RACK. HOWEVER, EACH BOX PALLET UNIT WHICH VERTICALLY SUPPORTS ANOTHER PALLET UNIT DOES REQUIRE THE USE OF A PALLET RACK.
4. IF WIDE-TYPE PALLET RACKS ARE USED, AS SHOWN BY DOTTED LINES ON THE "APPLICATION OF PALLET RACK" DETAIL ON PAGE 56, AND THE BOTTOM DECK BOARDS (RUNNERS) OF THE UPPER PALLET UNIT BEAR DIRECTLY ON THE TOP HORIZONTAL MEMBERS OF THE PALLET RACK, SPANNER ASSEMBLIES WILL NOT BE REQUIRED. HOWEVER, A SUPPORT BLOCK 5-1/2" LONG BY 2-1/2" WIDE BY CUT-TO-FIT IN HEIGHT MUST BE POSITIONED UNDER THE WING OF THE PALLET AT EACH CORNER BETWEEN THE BOTTOM DECK BOARD AND THE STRINGER BOARD OF THE PALLET TO SUPPORT THE VERTICAL MEMBERS OF THE PALLET RACK. STACKING OF BOX PALLET UNITS EQUIPPED WITH WIDE-TYPE PALLET RACKS CAN BE ACCOMPLISHED BY SIDE-HANDLING OR END HANDLING WITH A FORKLIFT TRUCK, AS DESIRED, TO PRODUCE MOST EFFICIENT SPACE UTILIZATION.
5. WHEN STORING BOX PALLET UNITS OF DRUMS, PALLET RACKS CAN ONLY BE USED IF THE HEIGHT OF THE DRUMS DOES NOT EXCEED THE HEIGHT OF THE PALLET RACK. IF NARROW-TYPE PALLET RACKS ARE USED AND THE HEIGHT OF THE DRUMS DOES NOT PERMIT THE PALLET STRINGERS OF AN UPPER PALLET UNIT TO BEAR DIRECTLY ON THE TOP HORIZONTAL MEMBERS OF THE PALLET RACK, SPANNER ASSEMBLIES MUST BE USED BETWEEN LAYERS OF UNITS SO THAT THE WEIGHT OF AN UPPER UNIT DOES NOT CONTACT THE TOP OF THE DRUMS OF THE LOWER UNIT.
6. IF FLUSH STRINGER TYPE OR FLUSH POST TYPE PALLETS, 40" X 48", ARE USED FOR BOX PALLET UNITS, SUPPORT BLOCKS, AS SPECIFIED, WILL NOT BE REQUIRED WHEN THE PALLET UNIT IS EQUIPPED WITH A WIDE-TYPE PALLET RACK. IF EQUIPPED WITH A NARROW-TYPE PALLET RACK, HOWEVER, SUPPORT BLOCKS WILL BE REQUIRED AT LOCATIONS SHOWN ON PAGE 46. THE HEIGHT OF THE BLOCKS WILL BE AS REQUIRED FOR THE SPECIFIC PALLET USED, SO AS TO TRANSMIT THE WEIGHT OF THE UPPER UNITS TO THE MAGAZINE FLOOR, THROUGH THE VERTICAL MEMBERS OF THE PALLET RACKS DOWN THROUGH THE SUPPORT BLOCKS. SEE THE STACKING PROCEDURES ON PAGE 46.
7. IF A RACK HAS PALLET LOCATING DEVICES ATTACHED TO THE TOP HORIZONTAL MEMBERS AND THEY INTERFERE WITH PROPER STACKING, PIECES OF WOODEN DUNNAGE SHOULD BE USED ON TOP OF THE HORIZONTAL MEMBERS TO PROVIDE A LEVEL SURFACE FOR AN UPPER BOX PALLET UNIT.
8. SHIMS OF REQUIRED THICKNESS PLYWOOD WILL BE USED IN CONJUNCTION WITH 4" X 4" X 8" SUPPORT BLOCKS TO PROVIDE SOLID CONTACT WITH THE STRINGER BOARD OF THE PALLET UNIT.
9. PALLETIZATION OF DRUMS IS SOLELY FOR THE CONVENIENCE OF STORAGE, AND WILL NOT BE USED FOR SHIPPING OF THIS ITEM.

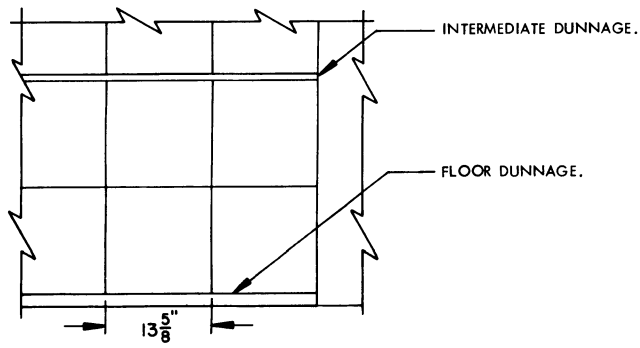




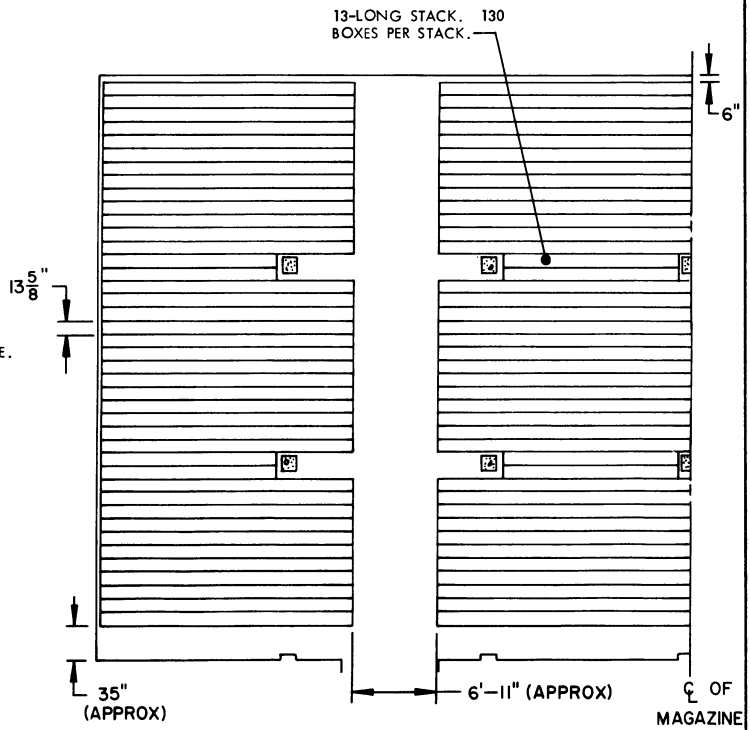
INTERMEDIATE DUNNAGE, 1" X 2" BY RANDOM LENGTHS. POSITION 1-1/2" FROM EDGE OF BOX AS SHOWN. SEE SPECIAL NOTE 3 BELOW.



BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK	1" X 2"	173	29
19 LONG	2" X 2"	44	15
SINGLE STACK	1" X 2"	119	20
13 LONG	2" X 2"	30	10



PARTIAL END VIEW OF STACKS



PLAN VIEW
(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 755,000 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

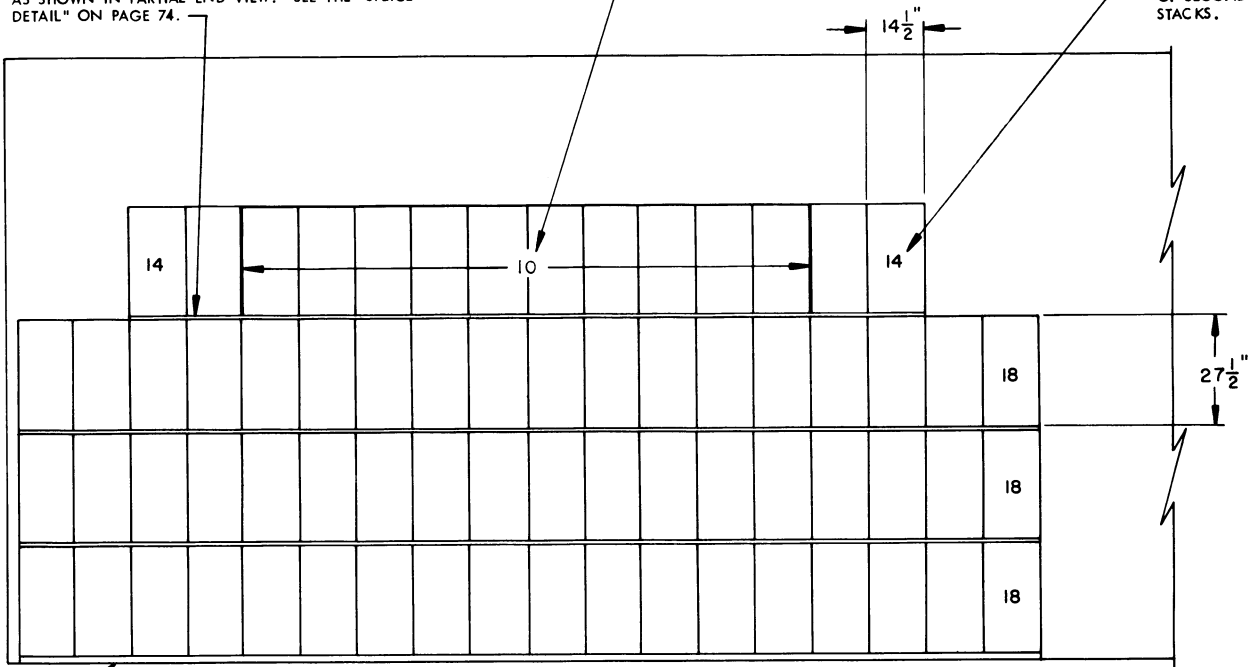
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR A WOODEN BOX.
BOX DIMENSIONS-----13-5/8" LONG BY 13-5/8" WIDE BY 13-5/8" HIGH.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.
3. INTERMEDIATE DUNNAGE MUST BE USED ON EVERY SECOND, FOURTH, SIXTH, AND EIGHTH LAYERS.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (18 PER LOT). POSITION 1-1/2" FROM EDGE OF DRUM AS SHOWN IN PARTIAL END VIEW. SEE THE "SPlice DETAIL" ON PAGE 74.

INDICATES NUMBER OF DRUMS IN TOP ROW/LAYER OF FIRST OF EACH THREE STACKS.

INDICATES NUMBERS OF DRUMS IN TOP ROW/LAYER OF SECOND AND THIRD STACKS.

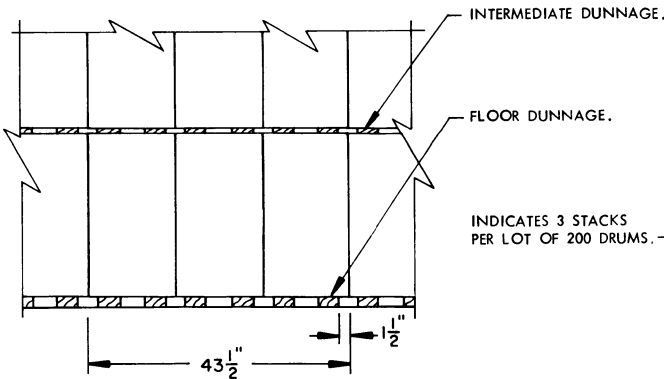


FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (6 REQD PER LOT). POSITION 1-1/2" FROM EDGE OF DRUM. SEE THE "SPlice DETAIL" ON PAGE 74.

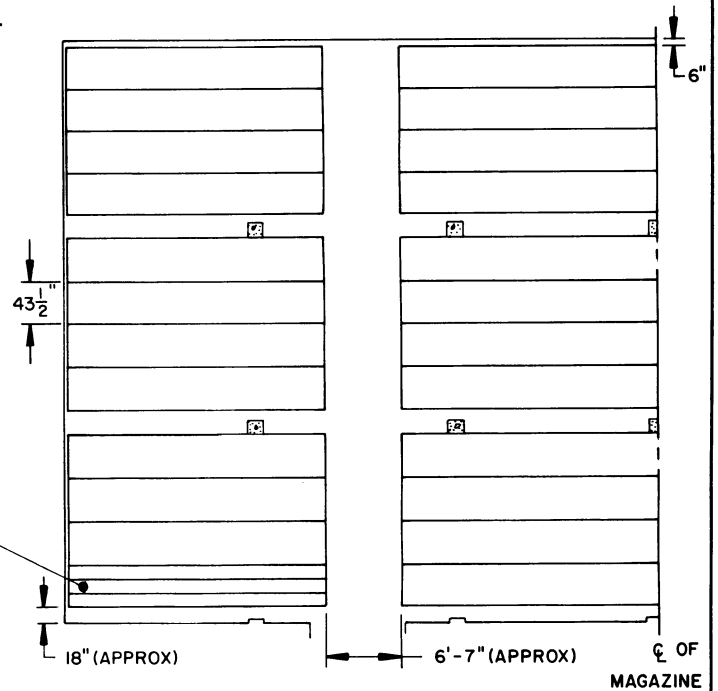
STACK ELEVATION
200 DRUMS PER LOT.
4,800 DRUMS PER HALF MAG.

BILL OF MATERIAL (PER LOT)

LOT	LUMBER	LINEAR FEET	BOARD FEET
	1" X 4"	380	127
	2" X 4"	141	94



PARTIAL END VIEW OF STACKS

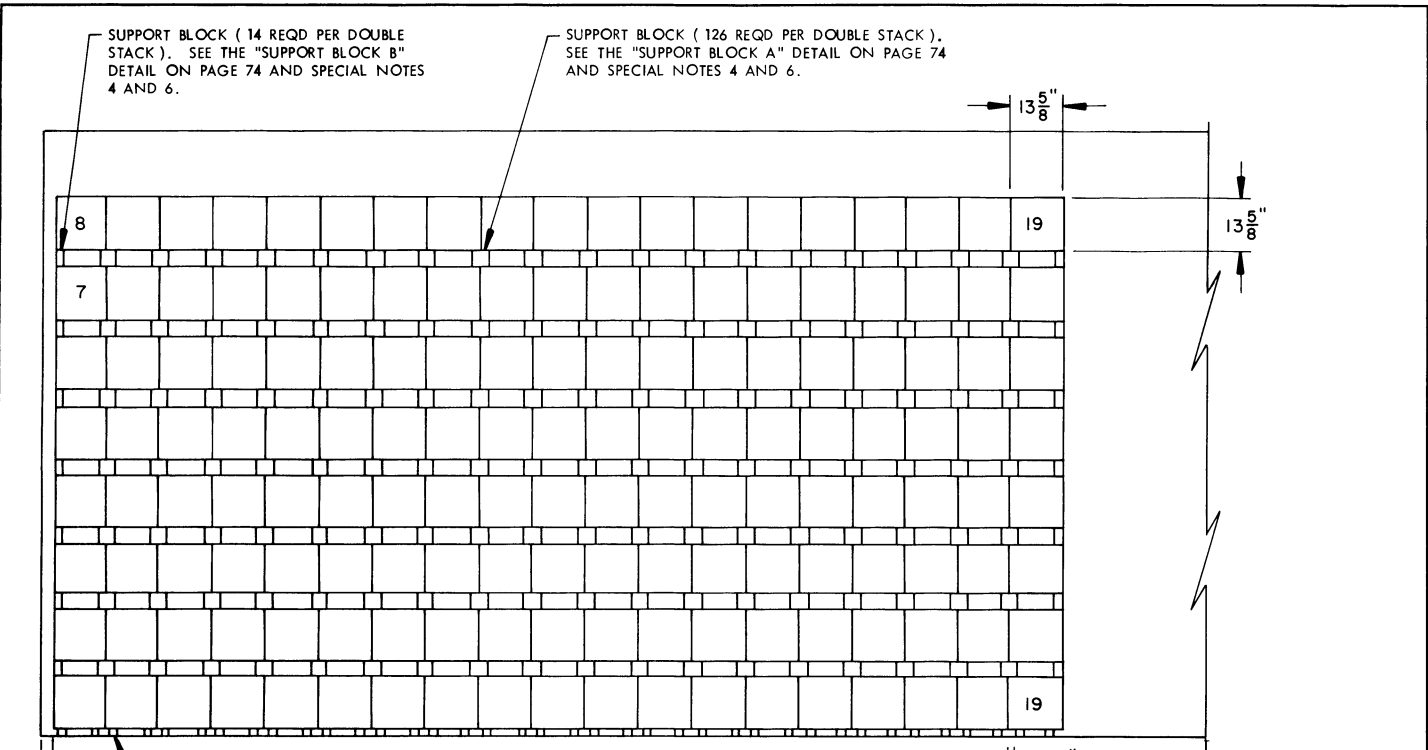


PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR FIBERBOARD DRUMS.
DIMENSIONS-----27-1/2" HIGH BY 14-1/2" DIAMETER.
- DRUMS WILL BE STORED IN LOTS OF 200 (10,000 LBS) TWO (2) STACKS OF 68 DRUMS AND ONE (1) STACK OF 64 DRUMS AS SHOWN IN THE STACK ELEVATION AND PARTIAL PLAN VIEW.

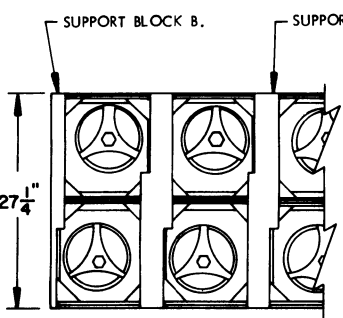
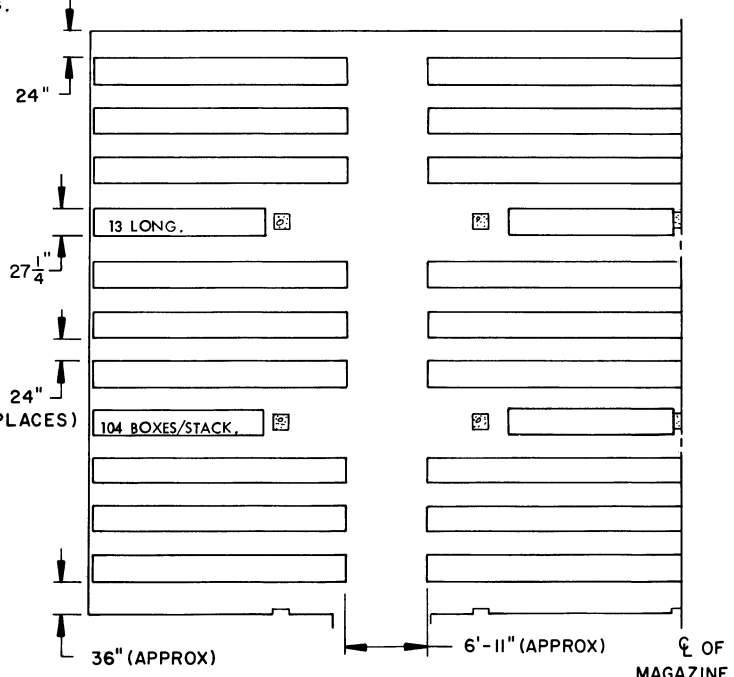
STORAGE METHOD A
NITROGUANIDINE (PACKED IN FIBERBOARD DRUMS)



FLOOR DUNNAGE, 2" X 2" X 27"
(38 REQD PER DOUBLE STACK).
POSITION 1-1/2" FROM EDGE OF
BOX AS SHOWN.

STACK ELEVATION
152 BOXES PER STACK.
6,304 BOXES PER HALF MAG.

BILL OF MATERIAL (PER DOUBLE STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
DOUBLE STACK 19 LONG	2" X 2"	86	29
	2" X 4"	32	22
	4" X 4"	284	379
DOUBLE STACK 13 LONG	2" X 2"	59	20
	2" X 4"	32	22
	4" X 4"	189	252



PARTIAL PLAN VIEW OF DOUBLE STACK

PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

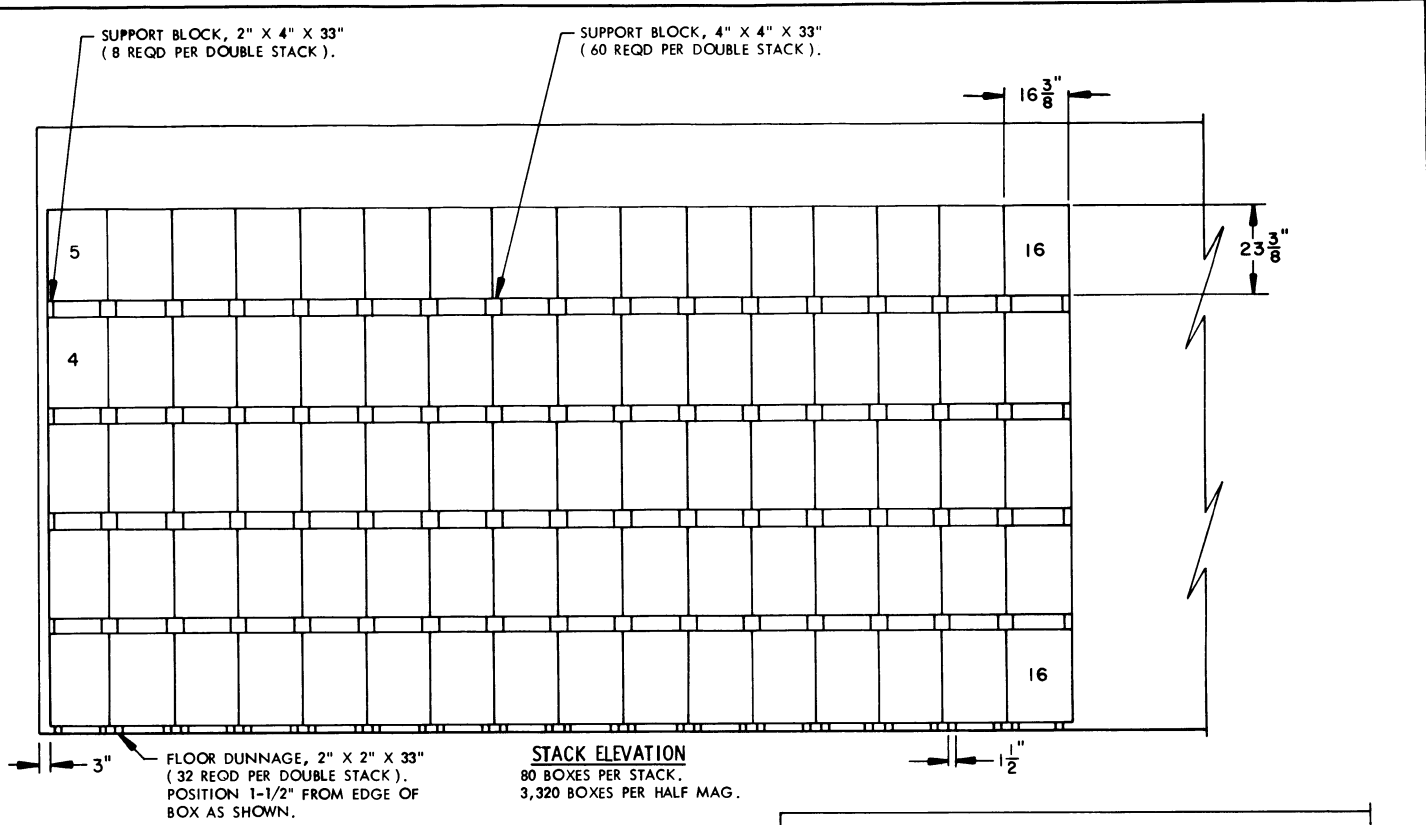
1. STORAGE AS SHOWN IS FOR THE M18 WOODEN BOX.
BOX DIMENSIONS-----13-5/8" LONG BY 13-5/8" WIDE BY 13-5/8"HIGH.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.
3. STORE IN DOUBLE STACK FOR BETTER STABILITY. SEE THE "PARTIAL PLAN VIEW OF DOUBLE STACK" ON THIS PAGE.
4. SUPPORT BLOCK A AND SUPPORT BLOCK B MAY BE FABRICATED FROM 1" X 4" AND 2" X 4" MATERIAL.
5. THE BOXES MUST BE POSITIONED WITH THE LIDS NEAREST TO THE LATERAL AISLES.

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 315,200 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

(SPECIAL NOTES CONTINUED)

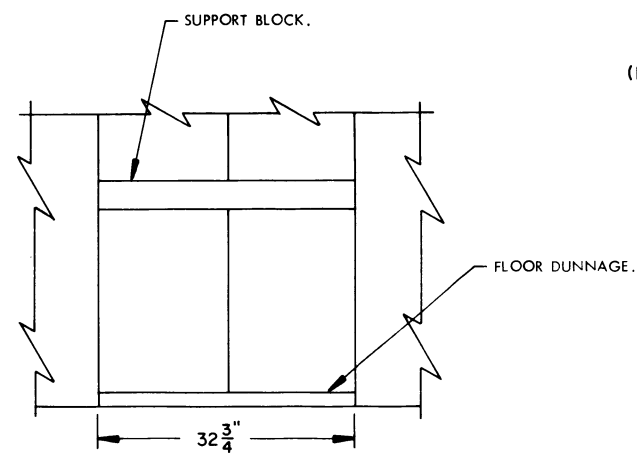
6. SUPPORT BLOCK A AND SUPPORT BLOCK B MUST BE POSITIONED AS SHOWN IN "PARTIAL PLAN VIEW OF DOUBLE STACK" TO PERMIT REMOVAL OF LID.
7. THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL BOXES.

(CONTINUED AT RIGHT)

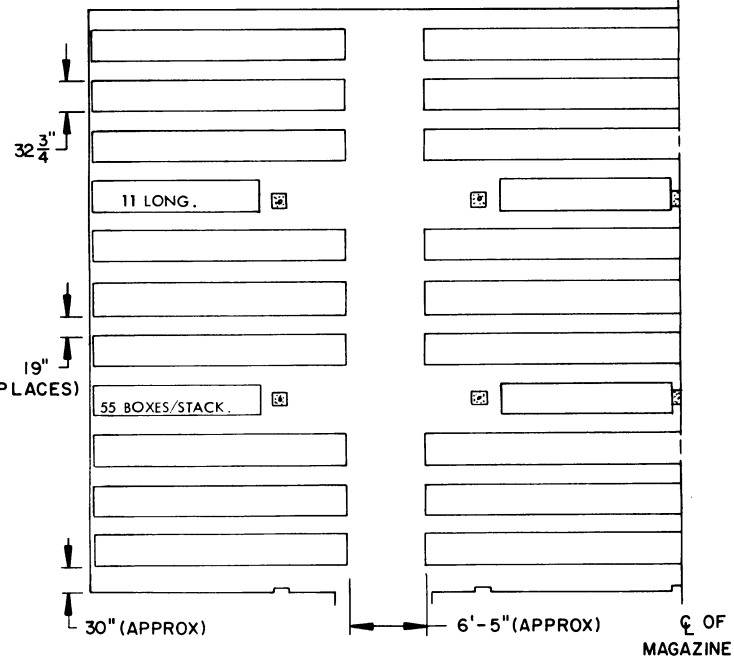


STACK ELEVATION
 80 BOXES PER STACK.
 3,320 BOXES PER HALF MAG.

BILL OF MATERIAL (PER DOUBLE STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
DOUBLE STACK 16 LONG	2" X 2"	88	30
	2" X 4"	22	15
	4" X 4"	165	220
DOUBLE STACK 11 LONG	2" X 2"	61	21
	2" X 4"	22	15
	4" X 4"	110	147



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 310,000 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

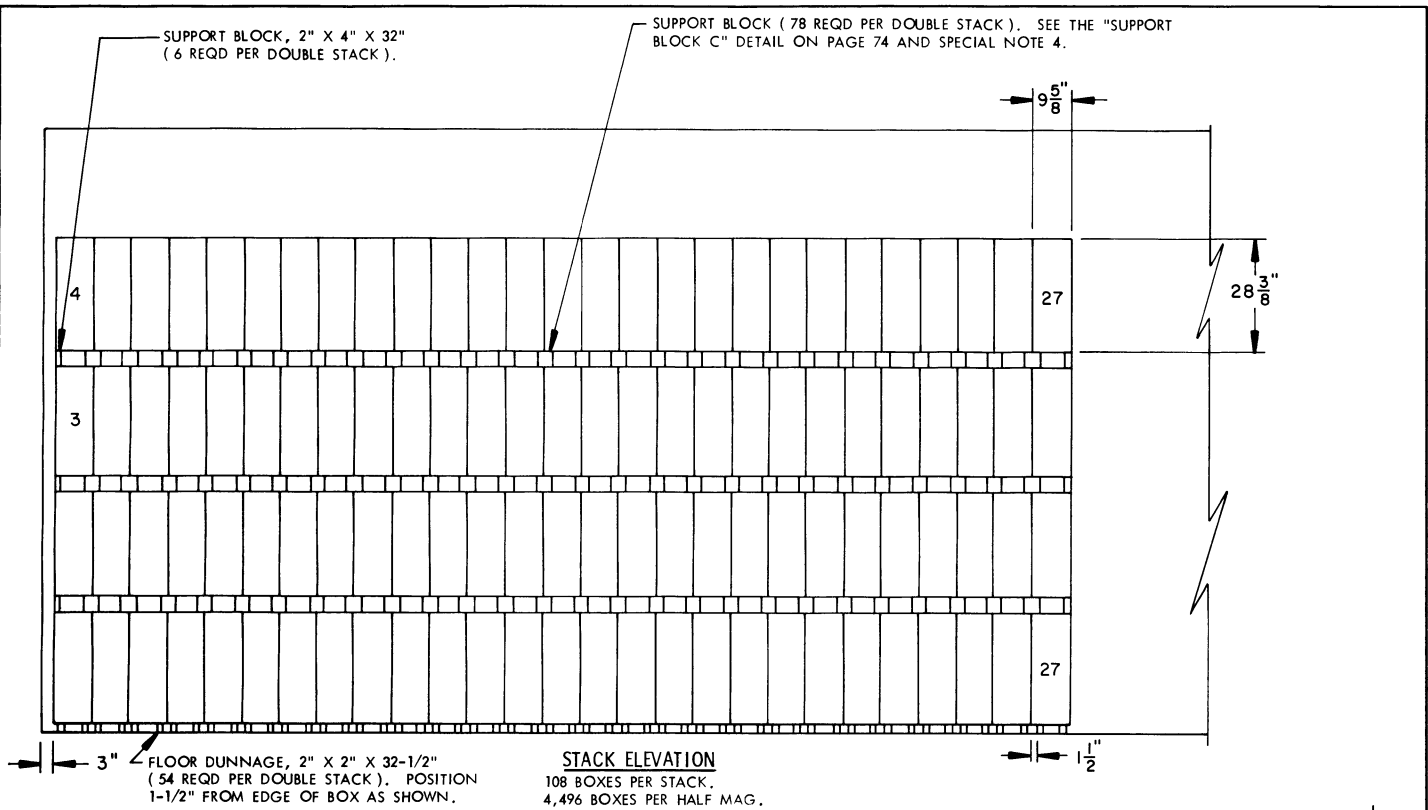
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE M17 WOODEN BOX.
 BOX DIMENSIONS-----16-3/8" LONG BY 16-3/8" WIDE BY 23-3/8" HIGH.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.

(SPECIAL NOTES CONTINUED)

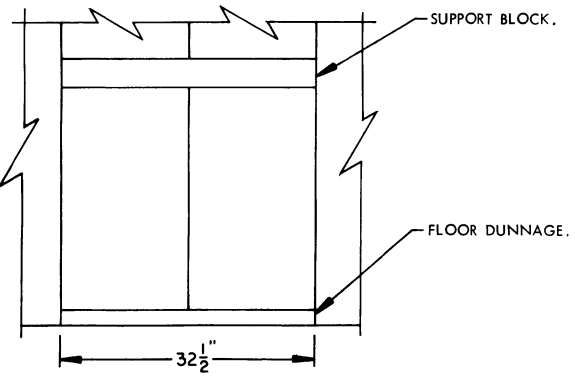
3. STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
4. THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL BOXES.

(CONTINUED AT RIGHT)

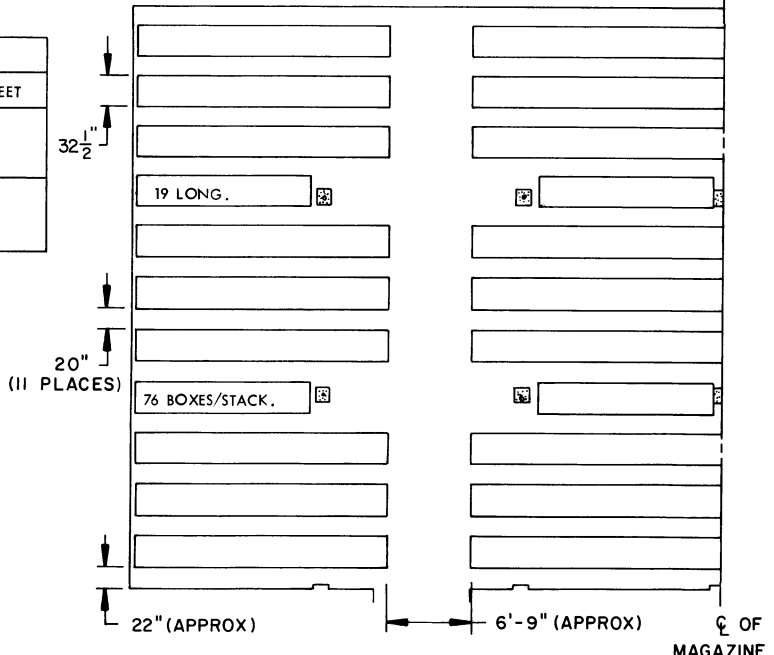


STACK ELEVATION
 108 BOXES PER STACK.
 4,496 BOXES PER HALF MAG.

BILL OF MATERIAL (PER DOUBLE STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
DOUBLE STACK 27 LONG	2" X 2"	147	49
	2" X 4"	16	11
	4" X 4"	208	278
DOUBLE STACK 19 LONG	2" X 2"	103	35
	2" X 4"	16	11
	4" X 4"	144	92



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
 (1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 494,560 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

(SPECIAL NOTES CONTINUED)

SPECIAL NOTES:

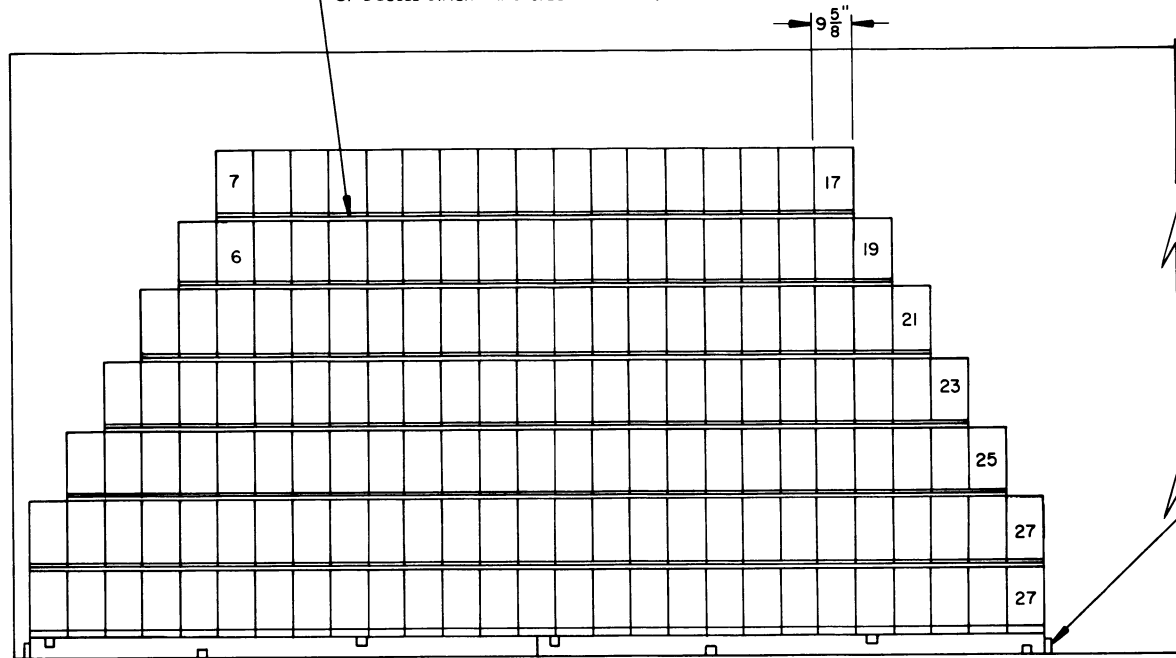
1. STORAGE AS SHOWN IS FOR THE M2 AND MK VII STEEL BOX.
 BOX DIMENSIONS-----16-1/4" LONG BY 9-5/8" WIDE BY 28-3/8" HIGH.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.
3. STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
4. SUPPORT BLOCK C MAY BE FABRICATED FROM 1" X 4" AND 2" X 4" MATERIAL.
5. THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL BOXES.

6. CONTAINERS MAY BE STACKED TO ALLOW EASE OF ACCESS FOR INSPECTION BASED ON OPERATIONAL AND STORAGE CONDITIONS. THE SELECTION OF A STORAGE PROCEDURE FROM THAT DEPICTED ON THIS PAGE, ON PAGE 65, OR ON PAGE 84 IS THE OPTION OF THE STORING ACTIVITY.

(CONTINUED AT RIGHT)

STORAGE METHOD A
POWDER, PROPELLANT (PACKED IN STEEL BOX, M2 AND MK VII)

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (24 REQD PER DOUBLE STACK). SEE THE "PARTIAL END VIEW OF DOUBLE STACK" AND SPECIAL NOTE 5.



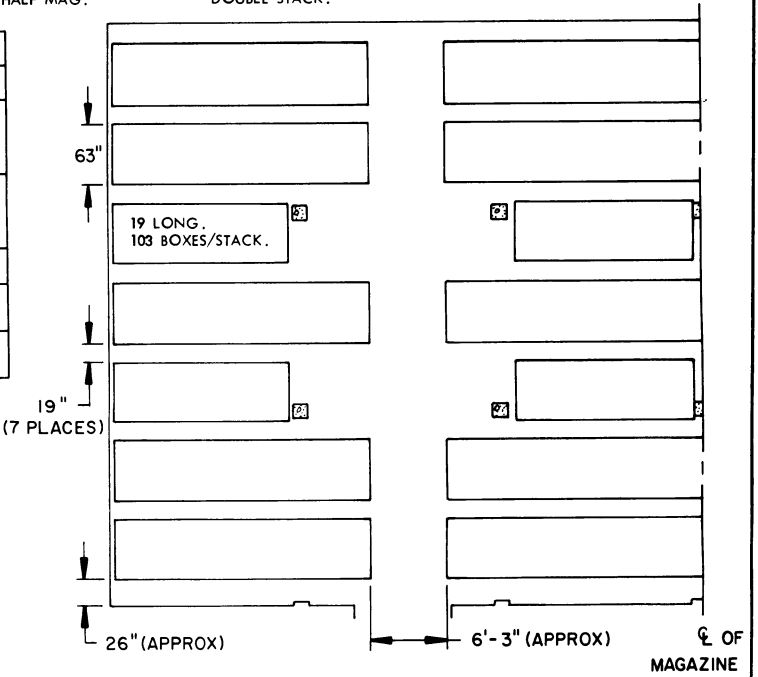
TIE PIECE, 2" X 4" X 50" (2 REQD PER DOUBLE STACK). NAIL TO THE FLOOR ASSEMBLY W/2-10d NAILS AT EACH END.

FLOOR ASSEMBLY (4 REQD PER DOUBLE STACK). SEE THE "FLOOR ASSEMBLY A" DETAIL ON PAGE 75.

STACK ELEVATION
159 BOXES PER STACK.
4,004 BOXES PER HALF MAG.

NOTE: THE "FLOOR ASSEMBLY B" DETAIL ON PAGE 75 WILL BE USED WITH THE 19 BOX LONG DOUBLE STACK.

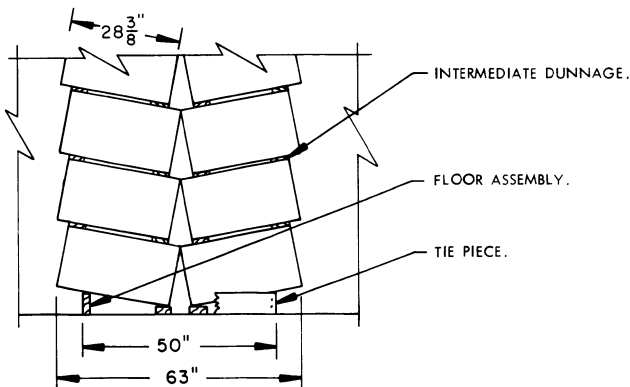
BILL OF MATERIAL (PER DOUBLE STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
DOUBLE STACK 27 LONG	1" X 4"	451	151
	2" X 4"	52	35
	2" X 6"	73	73
DOUBLE STACK 19 LONG	1" X 4"	270	90
	2" X 4"	39	26
	2" X 6"	60	60
	NAILS	NO. REQD	POUNDS
DOUBLE STACK 27 LONG	10d (3")	40	3/4
DOUBLE STACK 19 LONG	10d (3")	40	3/4



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 440,440 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

(SPECIAL NOTES CONTINUED)



PARTIAL END VIEW OF DOUBLE STACK

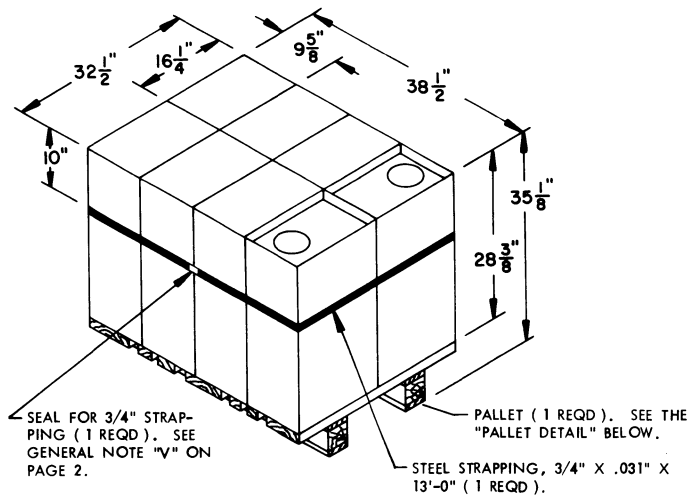
SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE M2 AND MK VII STEEL BOX.
BOX DIMENSIONS-----16-1/4" LONG BY 9-5/8" WIDE BY 28-3/8" HIGH.
- THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.

(CONTINUED AT RIGHT)

STORAGE METHOD B
POWDER, PROPELLANT (PACKED IN STEEL BOX, M2 AND MK VII)

- BOXES MUST BE STORED IN DOUBLE STACKS AS SHOWN.
- PRIOR TO PLACING BULK PROPELLANT IN ANGULAR STORAGE AS SHOWN, TRIAL BOXES SHOULD BE PLACED IN TYPICAL ANGLE STORAGE AND THE COVER REMOVED TO ACTUALLY DETERMINE THAT THE ANGLE OF FLOW OF THE CONTAINED PROPELLANT IS ENOUGH TO PREVENT LEAKAGE WHEN FUTURE TEST PAPERS ARE INSERTED.
- NOTE: JOINTS IN THE INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL BOXES.
- REFER TO PAGES 64 AND 84 FOR ALTERNATIVE STORAGE PROCEDURES.

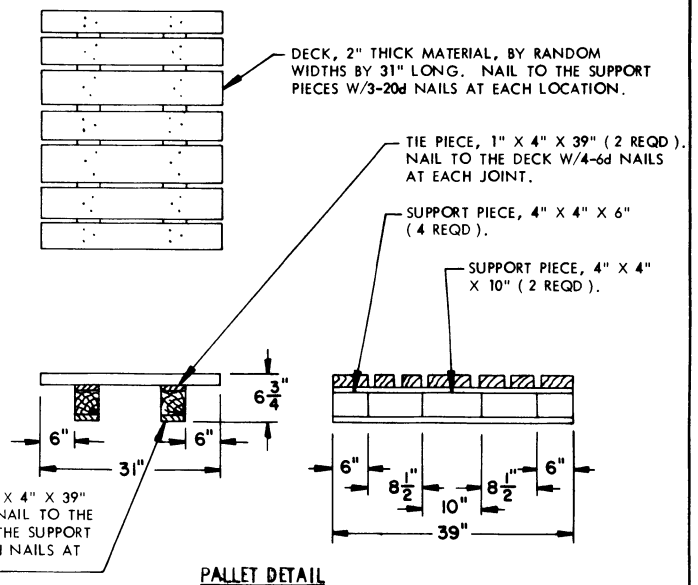


PALLETIZED BOXES
(EIGHT (8) BOXES PER PALLET .)

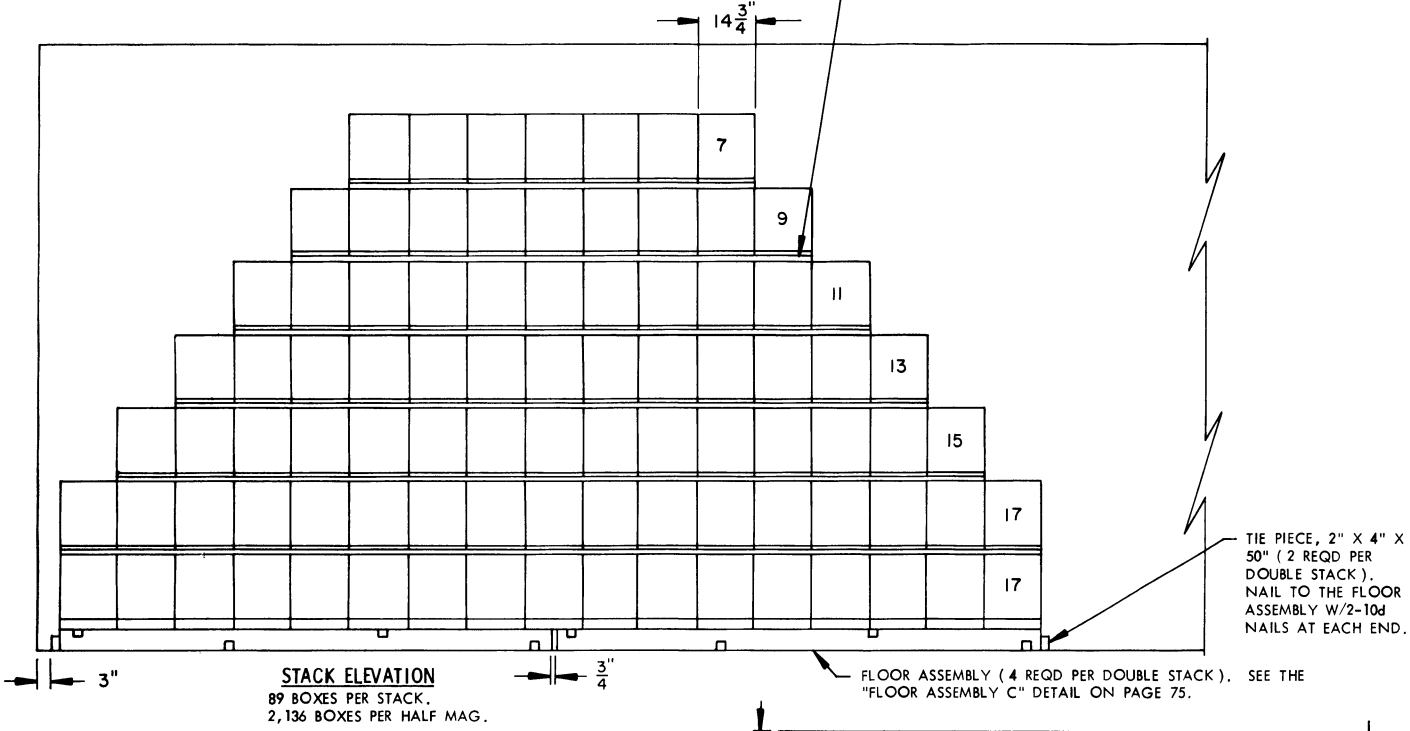
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE M2 AND MK VII STEEL BOX (PALLETIZED) .
PALLETIZED UNIT DIMENSIONS-----38-1/2" LONG BY 32-1/2" WIDE BY 35-1/8" HIGH.
2. THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL BOXES.
3. PALLETIZATION OF BOXES IS SOLELY FOR THE CONVENIENCE OF STORAGE AND MAY NOT BE USED FOR SHIPPING OF THIS ITEM.

BILL OF MATERIAL (PER PALLET)		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	13	5
2" X 4"	13	9
2" X 6"	6	6
4" X 4"	4	6
NAILS	NO. REQD	POUNDS
6d (2")	48	1/2
20d (4")	18	3/4
STEEL STRAPPING, 3/4" X .031"----- 13' REQD -----		1 LB
SEAL FOR 3/4" STRAPPING----- 1 REQD -----		NIL



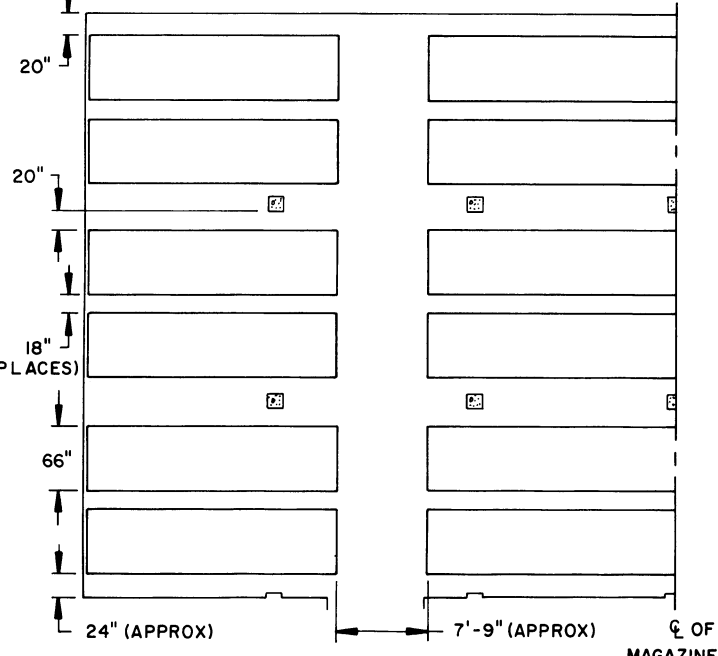
INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (24 REQD PER DOUBLE STACK). SEE THE "PARTIAL END VIEW OF DOUBLE STACK" AND SPECIAL NOTE 5.



TIE PIECE, 2" X 4" X 50" (2 REQD PER DOUBLE STACK). NAIL TO THE FLOOR ASSEMBLY W/2-10d NAILS AT EACH END.

BILL OF MATERIAL (PER DOUBLE STACK)

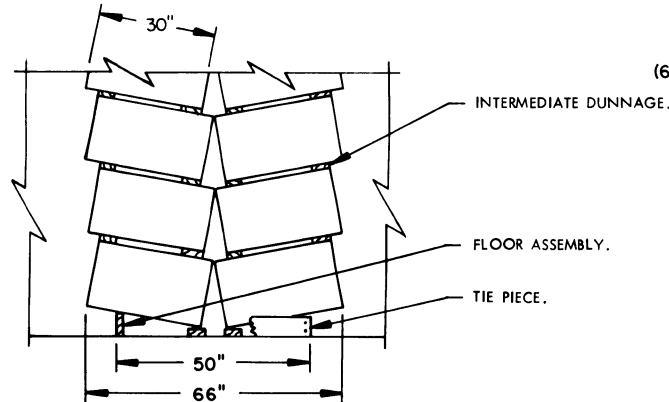
DOUBLE STACK 17 LONG	LUMBER	LINEAR FEET	BOARD FEET
	1" X 4"	354	118
2" X 4"	50	34	
2" X 6"	72	72	
NAILS		NO. REQD	POUNDS
10d (3")		40	3/4



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 320,400 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

(SPECIAL NOTES CONTINUED)

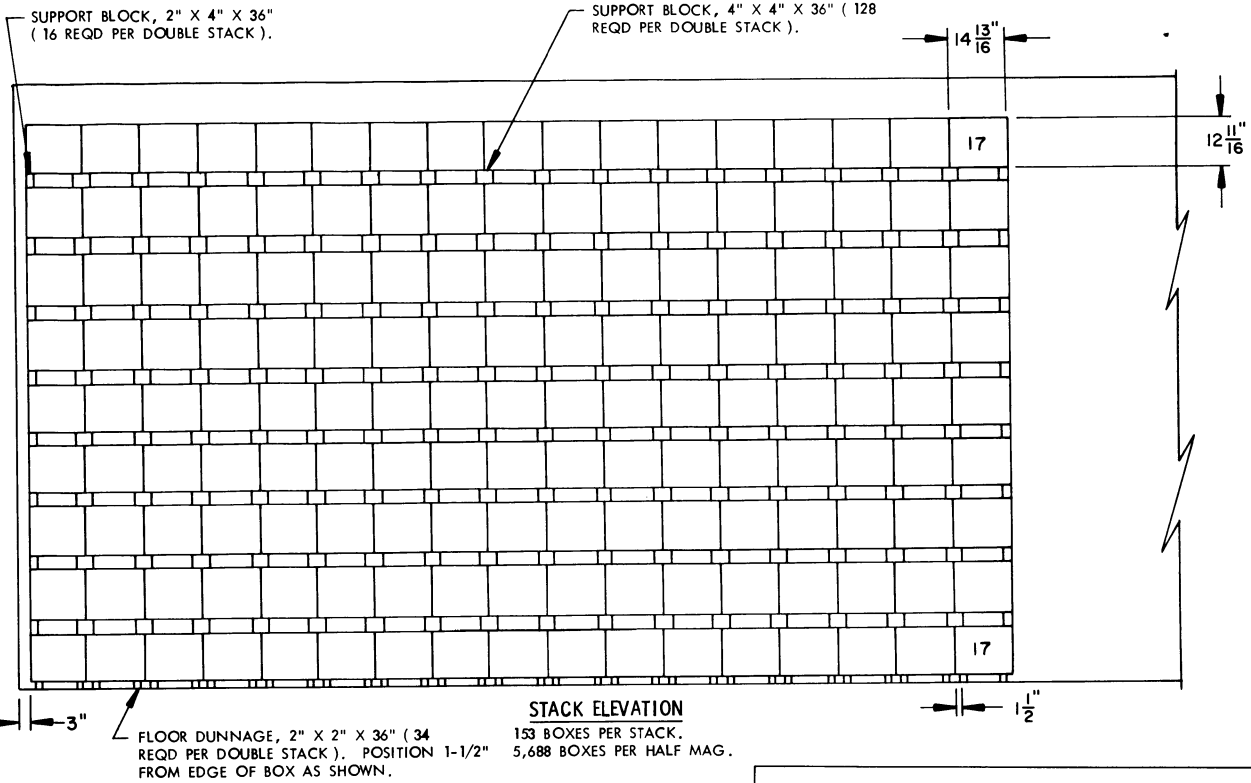


PARTIAL END VIEW OF DOUBLE STACK

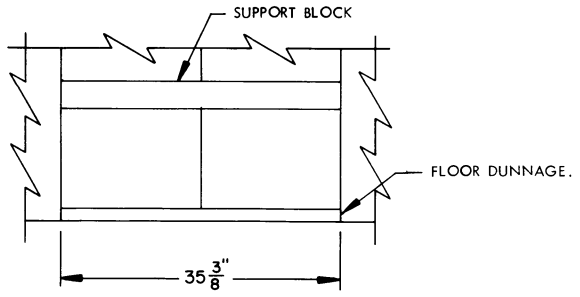
SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE METAL-LINED WOODEN BOX.
BOX DIMENSIONS-----17-3/4" LONG BY 14-3/4" WIDE BY 30" HIGH.
 - THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.
 - BOXES MUST BE STORED IN DOUBLE STACKS AS SHOWN.
- (CONTINUED AT RIGHT)

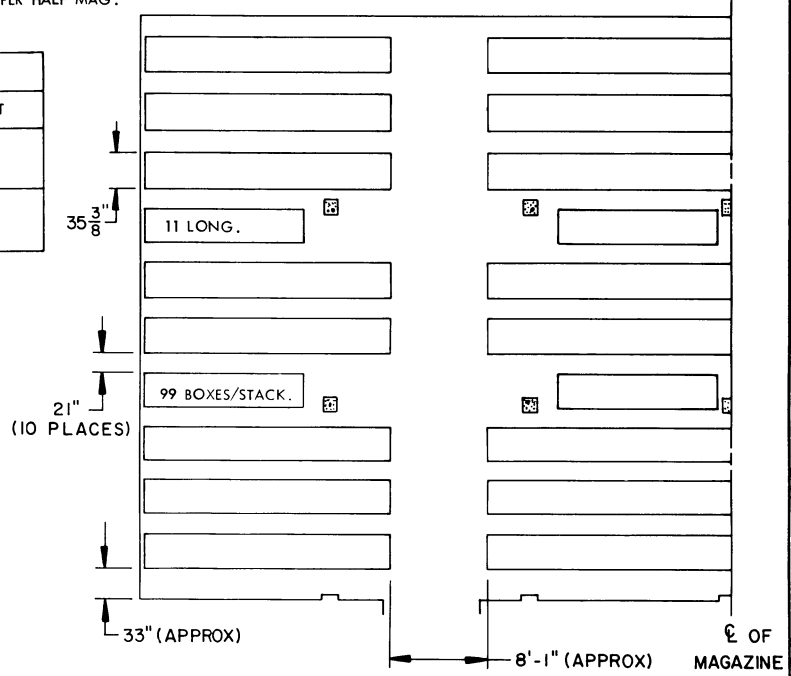
- PRIOR TO PLACING BULK PROPELLANT IN ANGULAR STORAGE AS SHOWN, TRIAL BOXES SHOULD BE PLACED IN TYPICAL ANGLE STORAGE AND THE COVER REMOVED TO ACTUALLY DETERMINE THAT THE ANGLE OF FLOW OF THE CONTAINED PROPELLANT IS ENOUGH TO PREVENT LEAKAGE WHEN FUTURE TEST PAPERS ARE INSERTED.
- NOTE: JOINTS IN THE INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL BOXES.



BILL OF MATERIAL (PER DOUBLE STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
DOUBLE STACK 17 LONG	2" X 2"	102	34
	2" X 4"	48	32
	4" X 4"	384	512
DOUBLE STACK 11 LONG	2" X 2"	66	22
	2" X 4"	48	32
	4" X 4"	240	320



PARTIAL END VIEW OF DOUBLE STACK

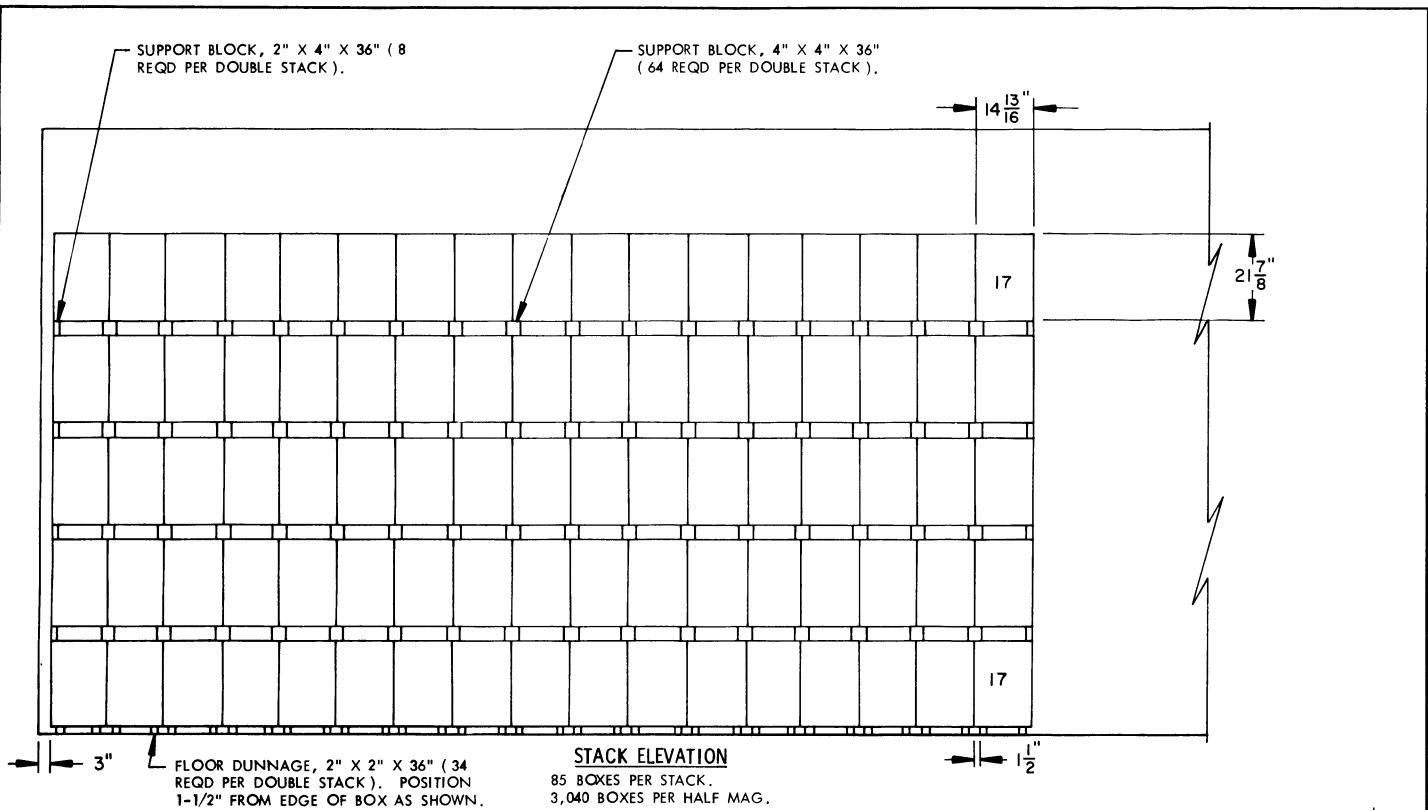


PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

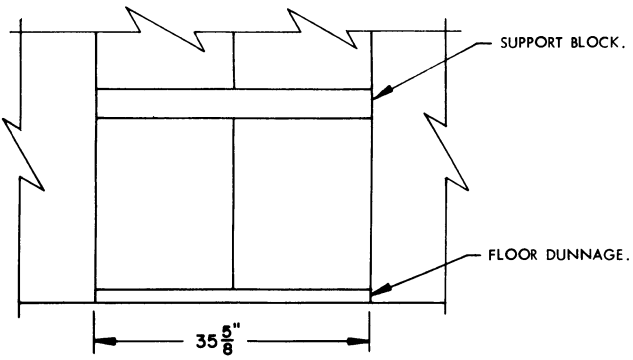
THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 284,400 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

SPECIAL NOTES:

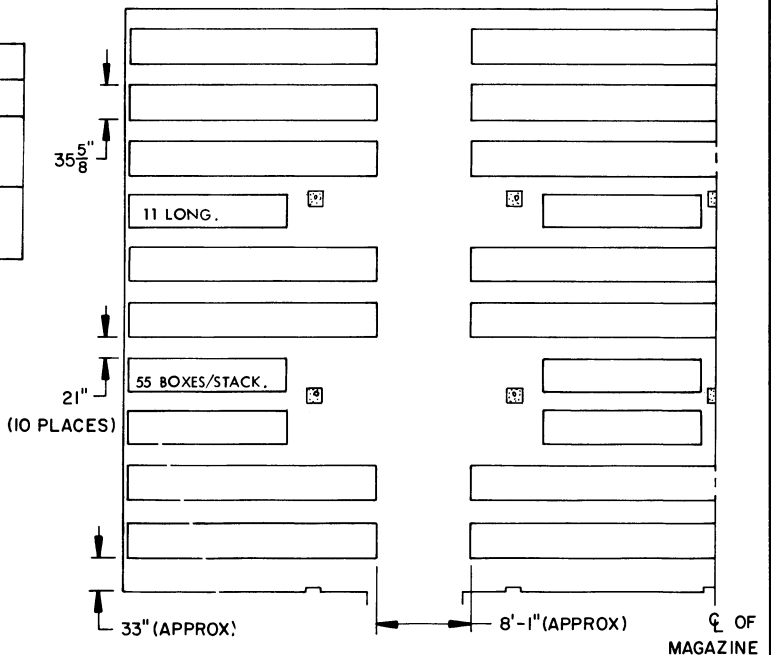
1. STORAGE AS SHOWN IS FOR A WOODEN BOX.
BOX DIMENSIONS-----17-13/16" LONG BY 14-13/16" WIDE BY 12-11/16" HIGH.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.
3. STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
4. THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL BOXES.



BILL OF MATERIAL (PER DOUBLE STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
DOUBLE STACK 17 LONG	2" X 2"	102	34
	2" X 4"	24	16
	4" X 4"	192	256
DOUBLE STACK 11 LONG	2" X 2"	66	22
	2" X 4"	24	16
	4" X 4"	120	160



PARTIAL END VIEW OF DOUBLE STACK

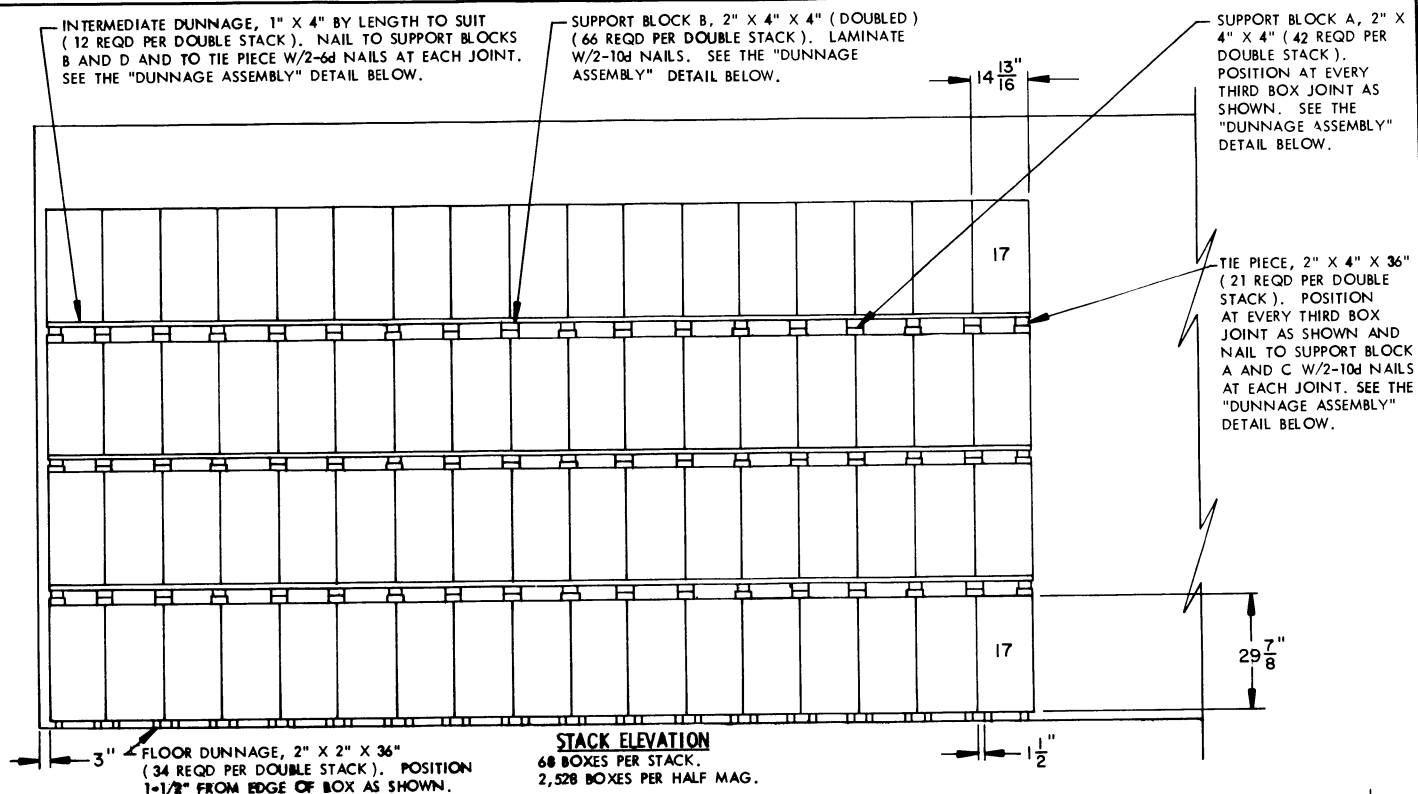


**PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)**

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 304,000 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

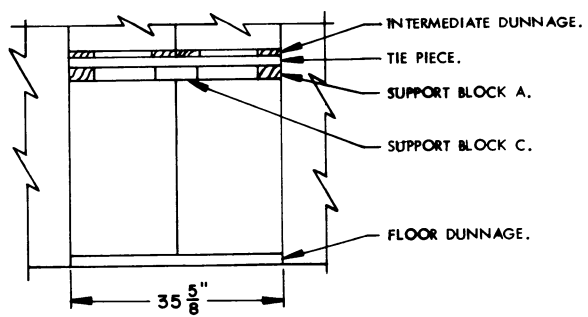
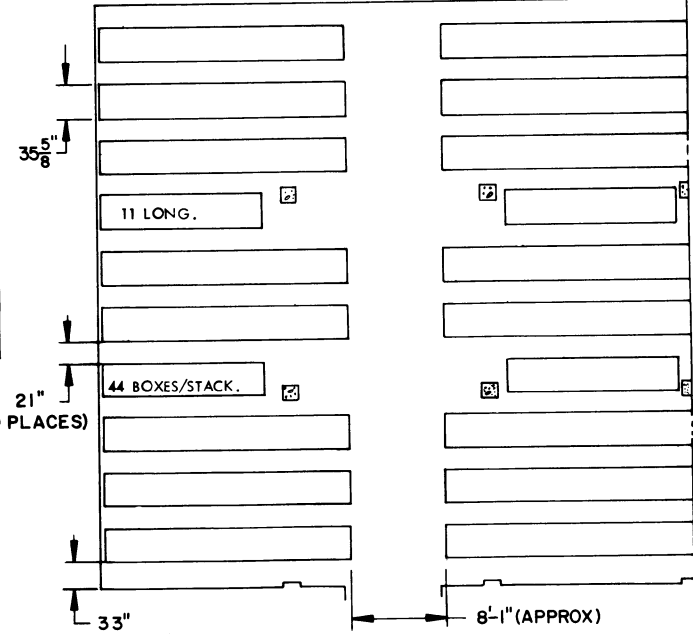
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR A WOODEN BOX.
BOX DIMENSIONS-----17-13/16" LONG BY 14-13/16" WIDE BY 21-7/8" HIGH.
2. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.
3. STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
4. THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL BOXES.

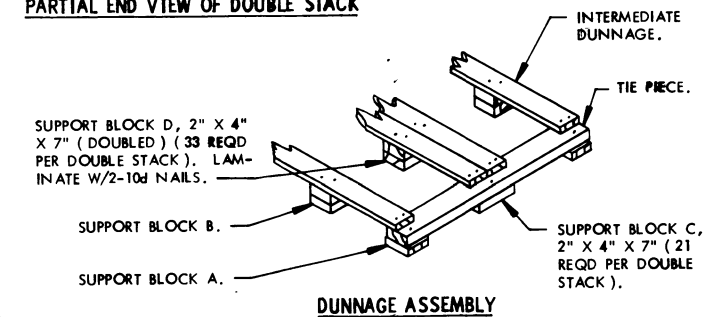


BILL OF MATERIAL (PER DOUBLE STACK)

	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 17 LONG	1" X 4"	252	84
	2" X 2"	102	34
	2" X 4"	172	115
SINGLE STACK 11 LONG	1" X 4"	163	55
	2" X 2"	66	22
	2" X 4"	118	79
	NAILS	NO. REQD	POUNDS
SINGLE STACK 17 LONG	6d (2")	432	2-3/4
	10d (3")	238	4
SINGLE STACK 11 LONG	6d (2")	288	1-3/4
	10d (3")	174	2-3/4



PARTIAL END VIEW OF DOUBLE STACK

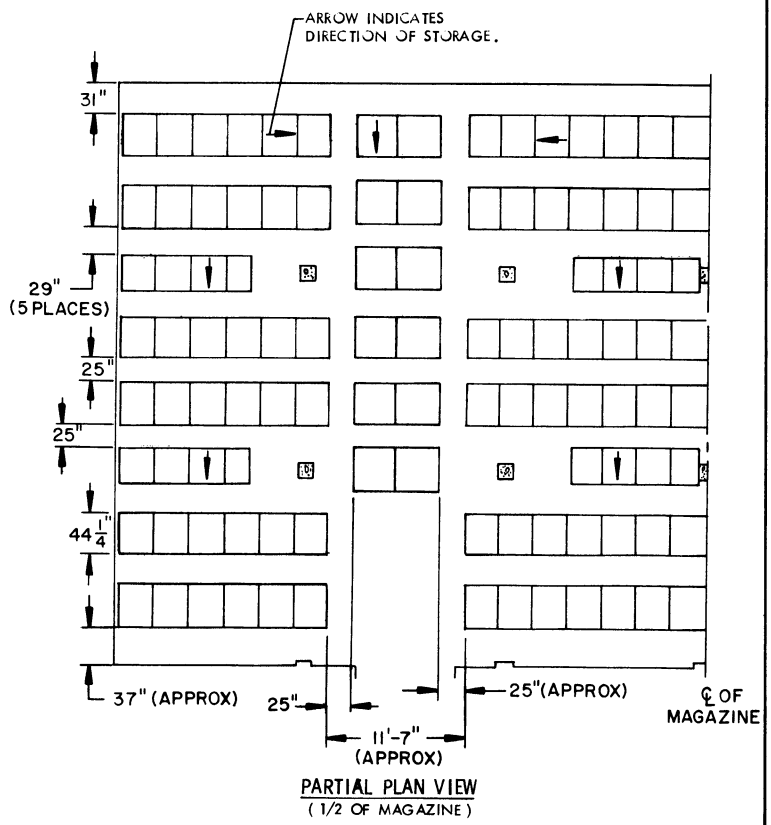
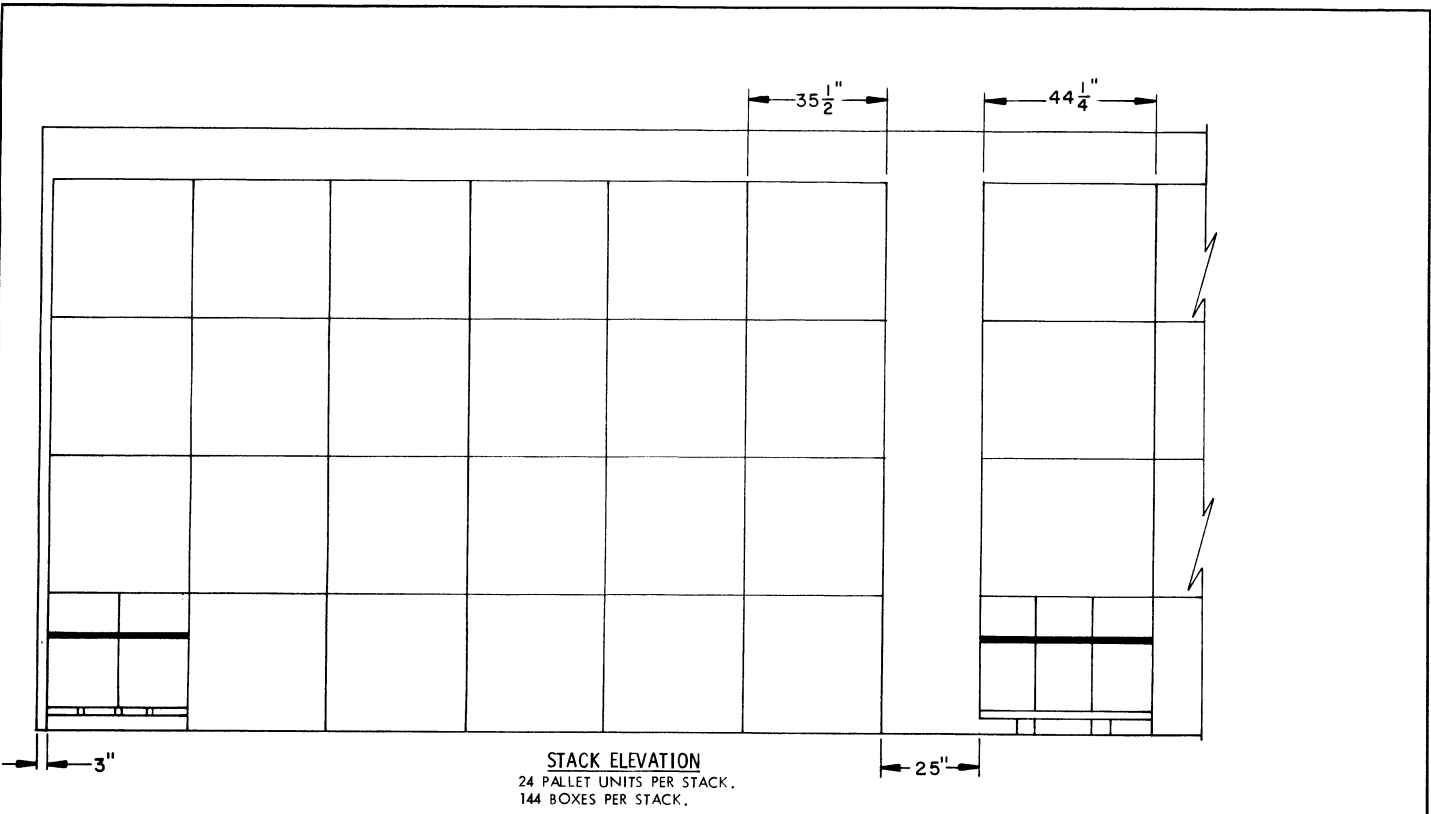


DUNNAGE ASSEMBLY

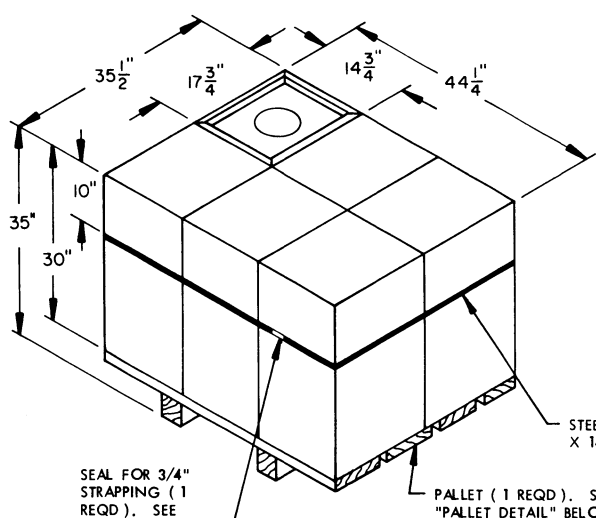
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR A WOODEN BOX.
2. BOX DIMENSIONS---17-13/16" LONG BY 14-13/16" WIDE BY 29-7/8" HIGH.
3. THE NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK.
4. STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.
5. THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL BOXES.

**PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)**



THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 324,000 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.



SEAL FOR 3/4" STRAPPING (1 REQD). SEE GENERAL NOTE "V" ON PAGE 2.

STEEL STRAPPING, 3/4" X .031" X 14'-0" (1 REQD).

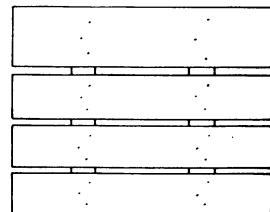
PALLET (1 REQD). SEE "PALLET DETAIL" BELOW.

PALLETIZED BOXES
SIX (6) BOXES PER PALLET.

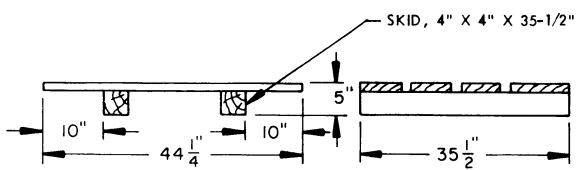
SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR THE METAL-LINED WOODEN BOX (PALLETIZED). PALLET UNIT DIMENSIONS-----35-1/2" LONG BY 44-1/4" WIDE BY 35" HIGH.
2. THE METHOD OF STORAGE SHOWN PERMITS INSPECTION OF INDIVIDUAL BOXES.
3. PALLETIZATION OF BOXES IS SOLELY FOR THE CONVENIENCE OF STORAGE AND MAY NOT BE USED FOR SHIPPING OF THIS ITEM.

BILL OF MATERIAL (PER PALLET)		
LUMBER	LINEAR FEET	BOARD FEET
2" X 8"	11	15
2" X 12"	4	8
4" X 4"	6	8
NAILS	NO. REQD	POUNDS
20d (4")	24	1
STEEL STRAPPING, 3/4" X .031"-----14' REQD -----1 LB		
SEAL FOR 3/4" STRAPPING-----1 REQD -----NIL		

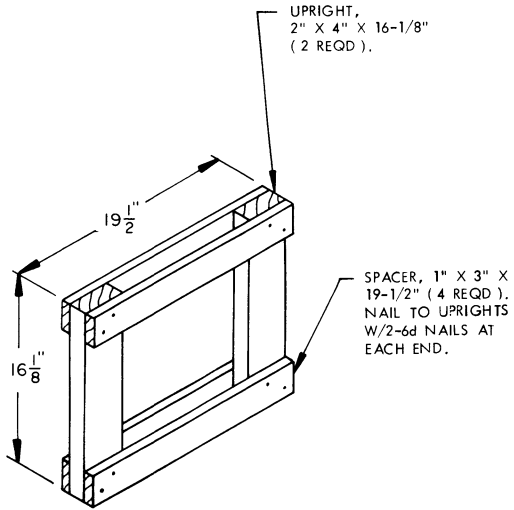


DECK, 2" THICK MATERIAL BY RANDOM WIDTH BY 44-1/4" LONG. NAIL TO SKIDS W/3-20d NAILS AT EACH LOCATION.

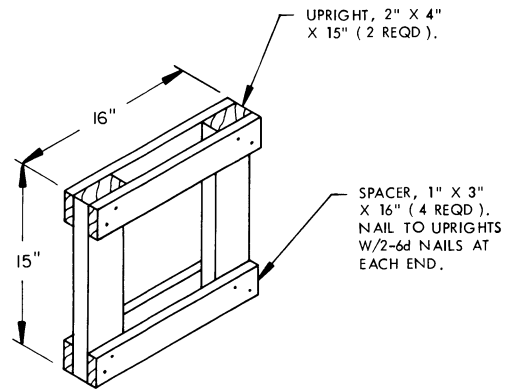


SKID, 4" X 4" X 35-1/2" (2 REQD).

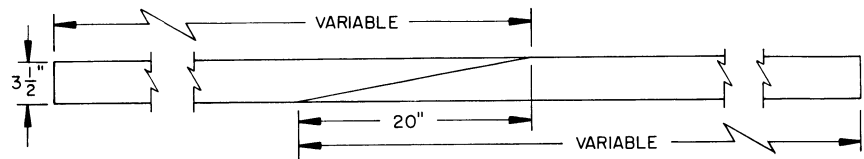
PALLET DETAIL



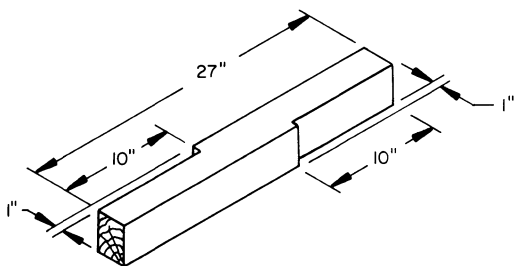
SEPARATOR ASSEMBLY A
FOR USE IN THE STORAGE SHOWN ON PAGE 33.



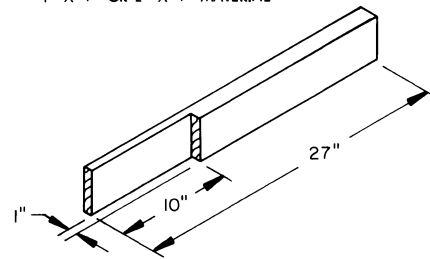
SEPARATOR ASSEMBLY B
FOR USE IN THE STORAGE SHOWN ON PAGE 34.



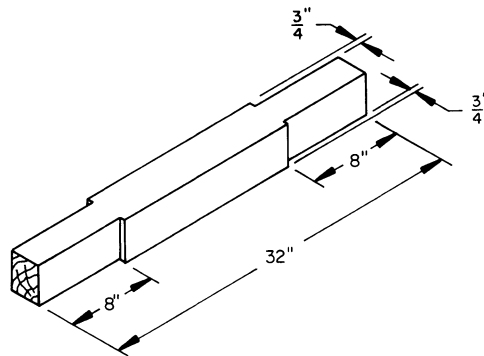
SPLICE DETAIL
1" X 4" OR 2" X 4" MATERIAL



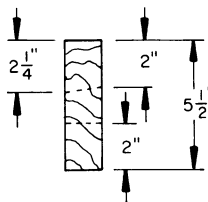
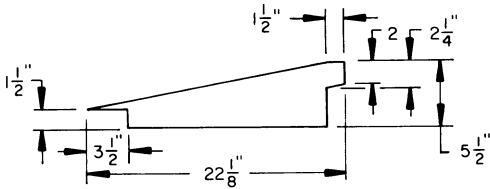
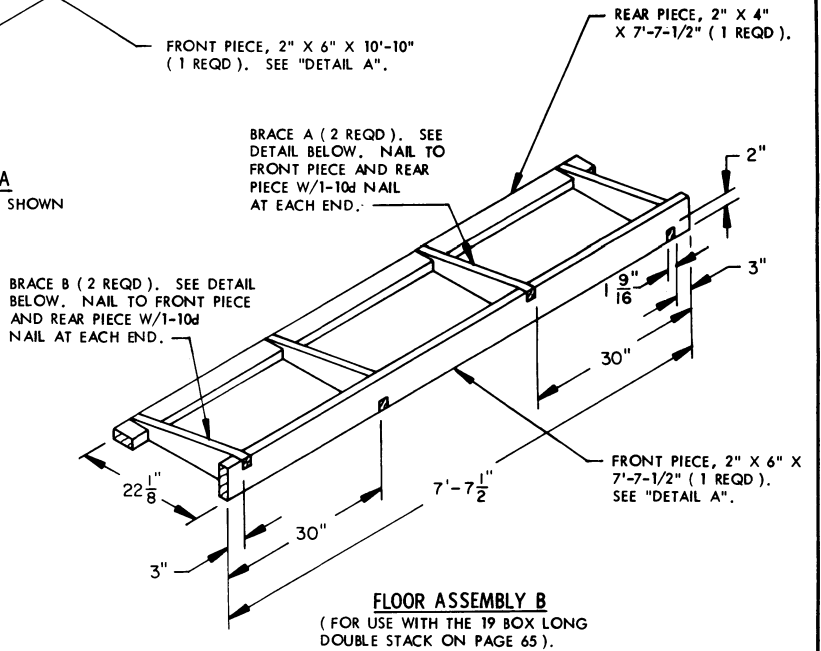
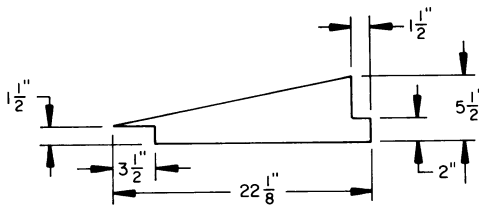
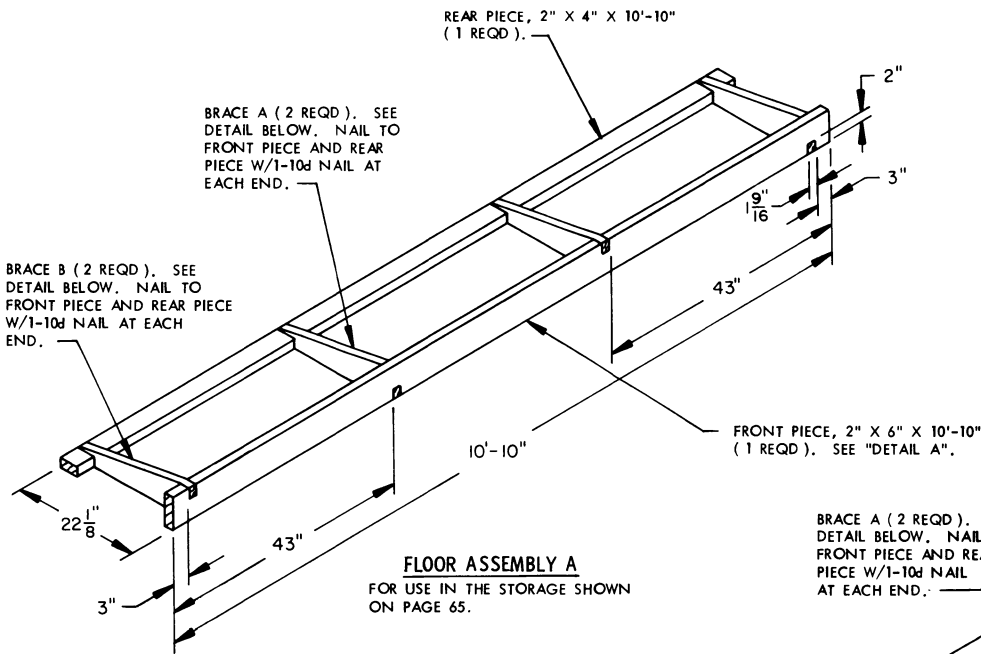
SUPPORT BLOCK A
4" X 4" MATERIAL. SEE SPECIAL NOTE 4 ON PAGE 62.



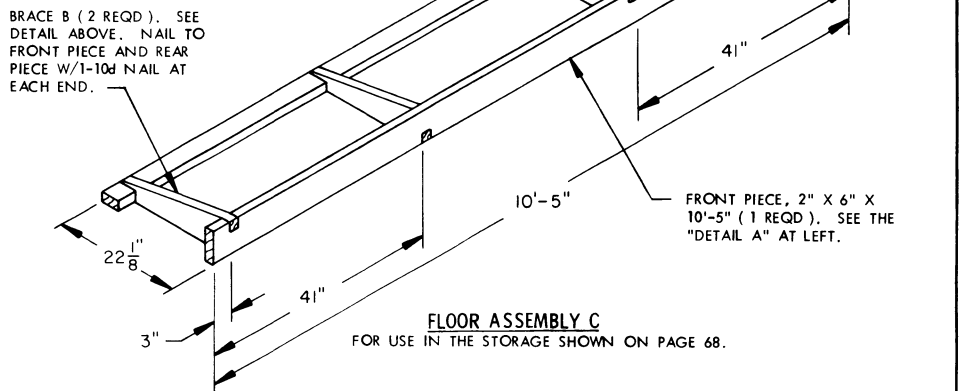
SUPPORT BLOCK B
2" X 4" MATERIAL. SEE SPECIAL NOTE 4 ON PAGE 62.



SUPPORT BLOCK C
4" X 4" MATERIAL. SEE SPECIAL NOTE 4 ON PAGE 64.



THE END VIEW OF THE FRONT
PIECE DEPICTED ABOVE SHOWS
DIMENSIONS OF THE NOTCHES.



DETAILS

SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR TNC AND SIMILAR BULK EXPLOSIVES PACKED IN FIBERBOARD BOX NO. 2. FOR DETAILS OF BOX SEE DRAWING NO. 7548645.

DIMENSIONS ----- 16-1/4" LONG BY 16-1/4" WIDE BY 8-1/8" HIGH.
EXPLOSIVE WEIGHT --40 POUNDS.

2. SIMILAR BULK EXPLOSIVES INCLUDE:

<u>ITEM</u>	<u>EXPL WT/BX</u>	<u>EXPLOSIVE WEIGHT PER 1/2 MAGAZINE</u>
(a) PENTOLITE	35 LBS	455,700 LBS
(b) POTASSIUM PICRATE	35 LBS	455,700 LBS
(c) COMPOSITION D-2	30 LBS	390,600 LBS
(d) MAX 2	50 LBS	651,000 LBS
(e) MOX 2B	50 LBS	651,000 LBS

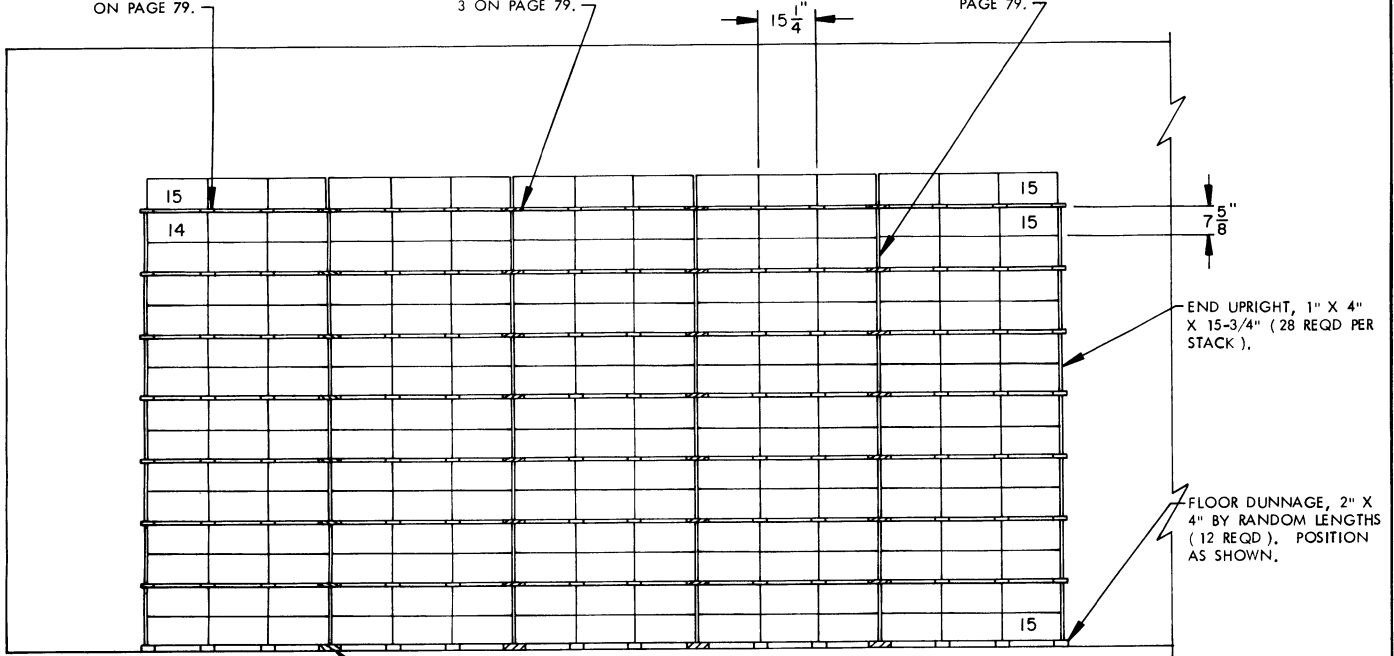
3. RANDOM LENGTH MATERIAL, OF NOT LESS THAN 48" LENGTHS, MAY BE USED FOR THE 1" X 4" AND 1" X 6" INTERMEDIATE DUNNAGE. 1" X 4" INTERMEDIATE DUNNAGE WILL BE CENTERED ON THE TOP EDGE OF THE BOX ABOVE THE END UPRIGHTS AND/OR ON THE JOINT OF TWO BOXES; 1" X 6" INTERMEDIATE DUNNAGE WILL BE CENTERED ON THE INTERMEDIATE UPRIGHTS AS SHOWN IN THE "STACK ELEVATION VIEW". THE JOINTS IN THE INTERMEDIATE DUNNAGE PIECES MUST BE LOCATED APPROXIMATELY CENTERED BETWEEN THE INTERMEDIATE AND/OR END UPRIGHT PIECES. JOINTS OF INTERMEDIATE DUNNAGE ALONG THE ENDS OF THE BOXES WITHIN A LAYER WILL BE STAGGERED A DISTANCE OF AT LEAST ONE BOX FROM THOSE JOINTS ALONG THE OTHER END OF THE BOXES. ALSO, JOINTS IN AN UPPER LAYER OF INTERMEDIATE DUNNAGE WILL BE OFF-SET FROM THE JOINTS IN THE NEXT LOWER LAYER OF DUNNAGE BY AT LEAST 16".
4. **CAUTION:** TNC PACKED IN FIBERBOARD BOXES OF THE SIZE SHOWN AND SIMILAR BULK EXPLOSIVES PACKED IN FIBERBOARD BOXES WHICH ARE APPROXIMATELY THE SAME HEIGHT MUST NOT BE STACKED MORE THAN FIFTEEN (15) BOXES HIGH.
5. THE NUMBERS SHOWN ON THE RIGHT SIDE OF THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK. THE NUMBERS SHOWN ON THE LEFT SIDE INDICATE THE NUMBER OF LAYERS OF BOXES IN A STACK.
6. WHEN STORING BOXES OF A HEIGHT OTHER THAN 8-1/8", THE LENGTH OF THE UPRIGHT PIECES MUST BE ADJUSTED TO COMPLY WITH THE FOLLOWING CRITERIA:
- A. INTERMEDIATE UPRIGHT PIECES MUST BE OF A LENGTH EQUAL TO THE HEIGHT OF TWO BOXES.
 - B. END UPRIGHT PIECES MUST BE 1/2" LONGER THAN INTERMEDIATE UPRIGHT PIECES.
7. STORAGE AS SHOWN IS FOR FIBERBOARD BOXES CONTAINING TNC. THE PROCEDURES ARE APPLICABLE FOR ALL THE ITEMS LISTED IN SPECIAL NOTE 2. FULL STACKS ARE SHOWN IN THE PLAN VIEW ON PAGE 76. ADDITIONAL STACKS OF ANY OF THE LISTED ITEMS MAY BE STORED PROVIDED THE EXPLOSIVE LIMIT FOR THE MAGAZINE IS NOT EXCEEDED.
8. THE STORAGE PROCEDURES ON PAGE 76 SHOULD ONLY BE USED IN GEOGRAPHICAL AREAS WHICH HAVE HIGH HUMIDITY LEVELS. FOR PROCEDURES APPLICABLE TO THE STORAGE OF TNC AND SIMILAR BULK EXPLOSIVES IN GEOGRAPHICAL AREAS HAVING LOW HUMIDITY, REFER TO THE PROCEDURES ON PAGES 40 AND 43.

STORAGE METHOD B
TNC, PENTOLITE, POTASSIUM PICRATE, COMP D-2,
MAX 2, AND MOX 2B (PACKED IN FIBERBOARD BOX)

INTERMEDIATE DUNNAGE, 1" X 4" BY RANDOM LENGTHS (84 REQD PER STACK). SEE SPECIAL NOTE 3 ON PAGE 79.

INTERMEDIATE DUNNAGE, 1" X 6" BY RANDOM LENGTHS (28 REQD PER STACK). SEE SPECIAL NOTE 3 ON PAGE 79.

INTERMEDIATE UPRIGHT, 1" X 4" X 15-1/4" (56 REQD PER STACK). SEE SPECIAL NOTES 3 AND 6 ON PAGE 79.

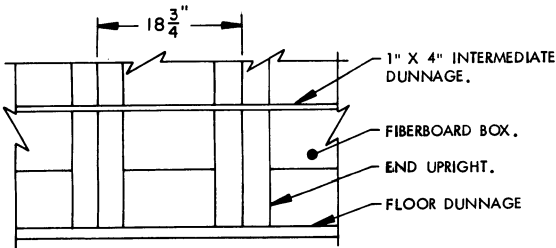


STACK ELEVATION

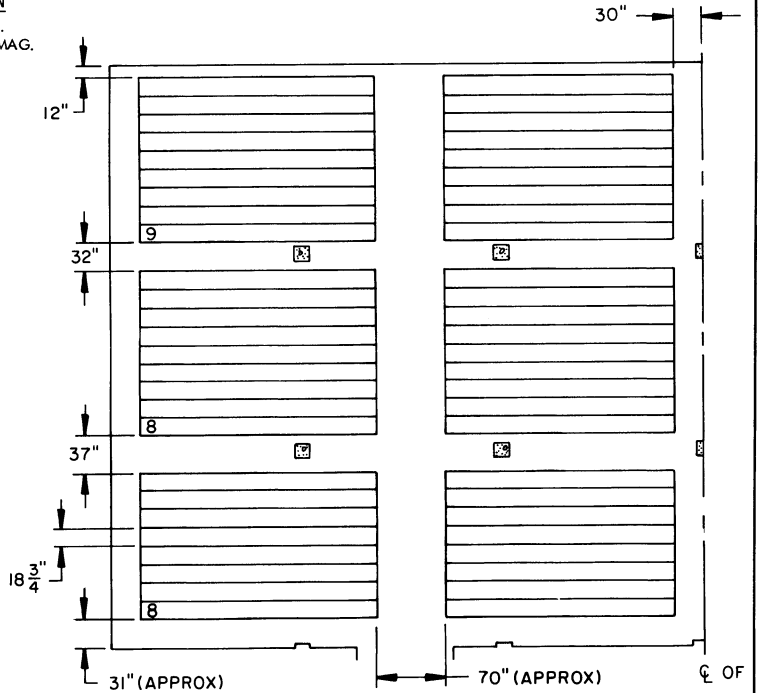
225 BOXES PER STACK.
11,700 BOXES PER HALF MAG.

FLOOR DUNNAGE, 2" X 6" BY RANDOM LENGTHS (4 REQD). CENTER UNDER THE INTERMEDIATE UPRIGHTS AS SHOWN.

BILL OF MATERIAL (PER STACK)		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	240	80
1" X 6"	44	22
2" X 4"	19	13
2" X 6"	7	7



PARTIAL END VIEW OF STACK



PARTIAL PLAN VIEW

(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE OF 50-POUND BOXES IS 585,000 POUNDS. THE EXPLOSIVE WEIGHT OF 55-POUND BOXES IS 643,800 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2 AND SPECIAL NOTE 2 ON PAGE 79.

FOR "SPECIAL NOTES", REFER TO PAGE 79.

STORAGE METHOD B

TNT, ALL COMP A, ALL COMP B, COMP C-3 AND C-4, EXPLOSIVE D
TOVEX, PBXN6, CYCLOTOL, OCTOL, PBX AND TETRYL (PACKED IN FIBERBOARD BOX)

SPECIAL NOTES:

1. STORAGE AS SHOWN IS FOR TNT AND SIMILAR BULK EXPLOSIVES PACKED IN FIBERBOARD BOX NO. 4. FOR DETAILS OF THE BOX SEE PICATINNY ARSENAL DRAWING NO. 7548645.

DIMENSIONS -----18-3/4" LONG BY 15-1/4" WIDE BY 7-5/8" HIGH, EXPLOSIVE WEIGHT --50 OR 55 POUNDS.

2. SIMILAR BULK EXPLOSIVES INCLUDE:	EXPL WT/BX	EXPLOSIVE WEIGHT PER 1/2 MAGAZINE
(a) TNT	50 LBS	585,000 LBS
(b) TNT	55 LBS	643,500 LBS
(c) ALL COMPOSITION A	60 LBS	702,000 LBS
(d) ALL COMPOSITION B	60 LBS	702,000 LBS
(e) COMPOSITION C-3 AND C-4	60 LBS	702,000 LBS
(f) EXPLOSIVE D	50 LBS	585,000 LBS
(g) CYCLOTOL	60 LBS	702,000 LBS
(h) OCTOL	60 LBS	702,000 LBS
(i) PBX	60 LBS (MAX)	702,000 LBS (MAX)
(k) TETRYL	60 LBS	702,000 LBS
(l) TOVEX	50 LBS	585,000 LBS
(m) PBXN 6	50 LBS	585,000 LBS

3. RANDOM LENGTH MATERIAL, OF NOT LESS THAN 48" LENGTHS, MAY BE USED FOR THE 1" X 4" AND 1" X 6" INTERMEDIATE DUNNAGE. 1" X 4" INTERMEDIATE DUNNAGE WILL BE CENTERED ON THE TOP EDGE OF THE BOX ABOVE THE END UPRIGHTS AND/OR ON THE JOINT OF TWO BOXES; 1" X 6" INTERMEDIATE DUNNAGE WILL BE CENTERED ON THE INTERMEDIATE UPRIGHTS AS SHOWN IN THE "STACK ELEVATION VIEW". THE JOINTS IN THE INTERMEDIATE DUNNAGE MUST NOT BE LOCATED CLOSER THAN 6" FROM AN INTERMEDIATE UPRIGHT PIECE. JOINTS OF INTERMEDIATE DUNNAGE ALONG THE ENDS OF THE BOXES WITHIN A LAYER WILL BE STAGGERED A DISTANCE OF AT LEAST ONE BOX FROM THOSE JOINTS ALONG THE OTHER END OF THE BOXES. ALSO, JOINTS IN AN UPPER LAYER OF INTERMEDIATE DUNNAGE WILL BE OFF-SET FROM THE JOINTS IN THE NEXT LOWER LAYER OF DUNNAGE BY A DISTANCE EQUAL TO OR GREATER THAN THE BOX DIMENSION PARALLEL TO THE DUNNAGE.

4. CAUTION: TNT PACKED IN FIBERBOARD BOXES OF THE SIZE SHOWN AND SIMILAR BULK EXPLOSIVES PACKED IN FIBERBOARD BOXES WHICH ARE APPROXIMATELY THE SAME HEIGHT MUST NOT BE STACKED MORE THAN FIFTEEN (15) BOXES HIGH.

5. THE NUMBERS SHOWN ON THE RIGHT SIDE OF THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK. THE NUMBERS SHOWN ON THE LEFT SIDE INDICATE THE NUMBER OF LAYERS OF BOXES IN A STACK.

6. WHEN STORING BOXES OF A HEIGHT OTHER THAN 7-5/8", THE LENGTH OF THE UPRIGHT PIECES MUST BE ADJUSTED TO COMPLY WITH FOLLOWING CRITERIA:

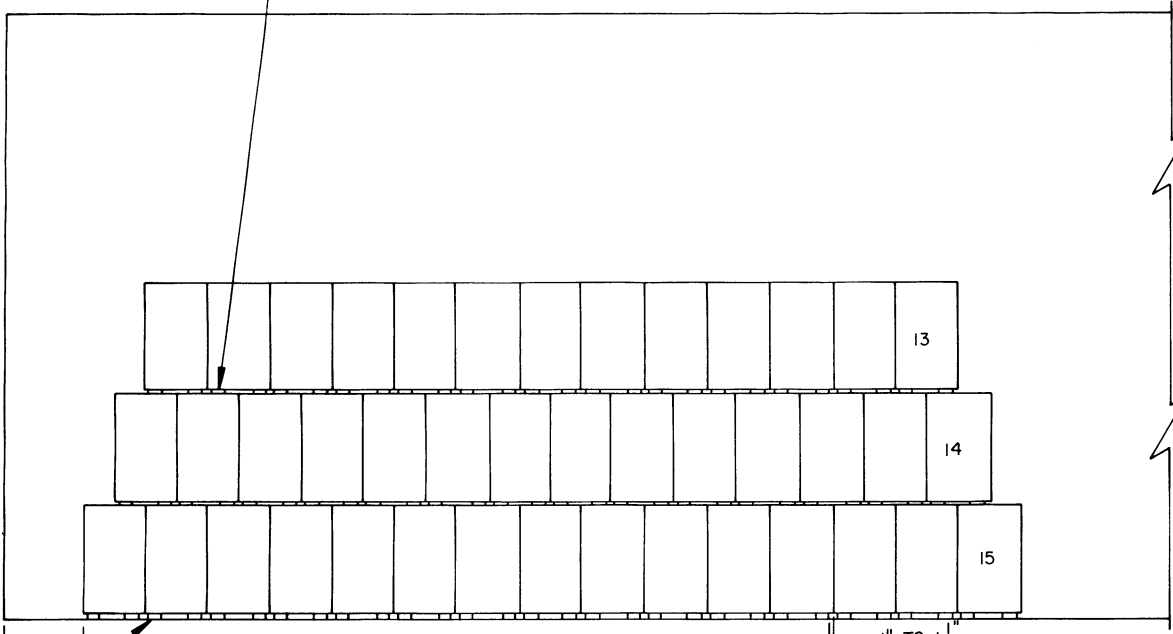
- A. INTERMEDIATE UPRIGHT PIECES MUST BE OF A LENGTH EQUAL TO THE HEIGHT OF TWO BOXES.
- B. END UPRIGHT PIECES MUST BE 1/2" LONGER THAN INTERMEDIATE UPRIGHT PIECES.

7. STORAGE AS SHOWN IS FOR FIBERBOARD BOXES CONTAINING 50 POUNDS OF TNT. THE PROCEDURES ARE ALSO APPLICABLE FOR 55-POUND BOXES OF TNT AND FOR ALL THE ITEMS LISTED IN SPECIAL NOTE 2. ADDITIONAL STACKS OF ALL ITEMS MAY BE STORED IF THE SPACE PERMITS AND PROVIDED THE EXPLOSIVE LIMIT FOR THE MAGAZINE IS NOT EXCEEDED.

8. THE STORAGE PROCEDURES ON PAGE 78 SHOULD ONLY BE USED IN GEOGRAPHICAL AREAS WHICH HAVE HIGH HUMIDITY LEVELS. FOR PROCEDURES APPLICABLE TO THE STORAGE OF TNT AND SIMILAR BULK EXPLOSIVES IN GEOGRAPHICAL AREAS HAVING LOW HUMIDITY, REFER TO THE PROCEDURES ON PAGES 41 AND 43.

STORAGE METHOD B
 TNT, ALL COMP A, ALL COMP B, COMP C-3 AND C-4, EXPLOSIVE D,
 CYCLOTOL, OCTOL, PBX, TETRYL, TOVEX AND PBXN6 (PACKED IN FIBERBOARD BOX)

INTERMEDIATE DUNNAGE, 1" X 4" BY RANDOM LENGTHS (54 REQD). POSITION 1" TO 1-1/2" FROM EDGE OF BOX AS SHOWN. SEE THE "SPLICE DETAIL" ON PAGE 74 AND SPECIAL NOTE 4 BELOW.



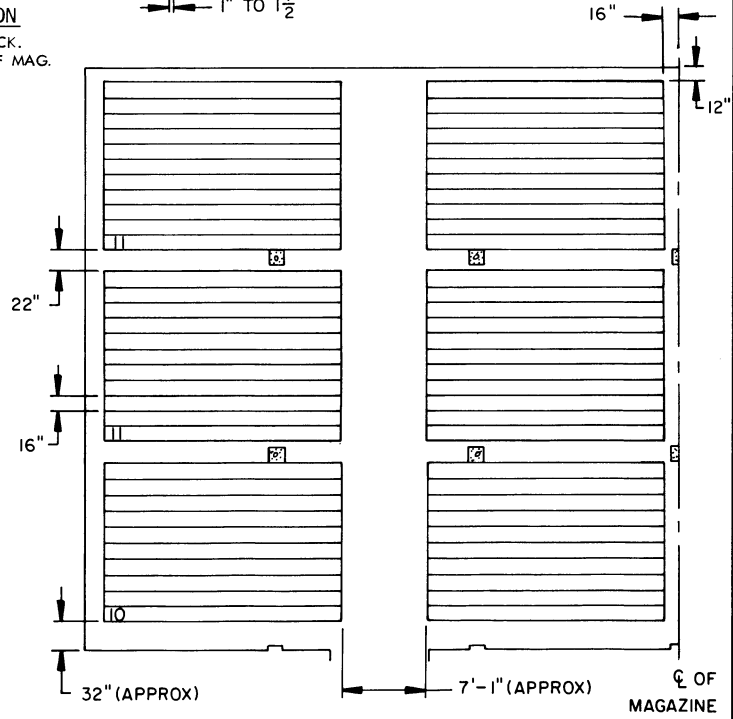
STACK ELEVATION
42 DRUMS PER STACK.
2,688 DRUMS PER HALF MAG.

FLOOR DUNNAGE, 2" X 4" BY RANDOM LENGTHS (30 REQD). POSITION 1" TO 1-1/2" FROM EDGE OF BOX AS SHOWN. SEE THE "SPLICE DETAIL" ON PAGE 74 AND SPECIAL NOTE 4 BELOW.

BILL OF MATERIAL (PER STACK)		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	72	24
2" X 4"	40	27

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR FIBERBOARD DRUMS.
DRUM DIMENSIONS -----27" HIGH BY 16" DIAMETER.
EXPLOSIVE WEIGHT -----140 POUNDS
- FIBERBOARD DRUMS, EXCEPT FOR NITROGUANIDINE AS SHOWN ON PAGE 81 WILL NOT BE STACKED MORE THAN THREE LAYERS HIGH.
- THE DRUMS IN EACH LAYER WILL BE STAGGERED ABOVE THE DRUMS IN THE LAYER UNDERNEATH, AS SHOWN.
- NOTE: JOINTS IN INTERMEDIATE AND FLOOR DUNNAGE WILL BE STAGGERED.
- NUMBERS SHOWN IN THE STACK ELEVATION INDICATE THE QUANTITY OF DRUMS PER LAYER.
- THE PROCEDURES SHOWN ON THIS PAGE SHOULD ONLY BE USED WHEN STORING FIBERBOARD DRUMS SUCH AS THESE IN GEOGRAPHICAL AREAS IN WHICH THERE IS A HIGH HUMIDITY LEVEL. FOR PROCEDURES APPLICABLE TO THE STORAGE OF FIBERBOARD DRUMS IN GEOGRAPHICAL AREAS WHICH HAVE LOW HUMIDITY LEVELS, REFER TO THE STORAGE PROCEDURES ON PAGE 47.



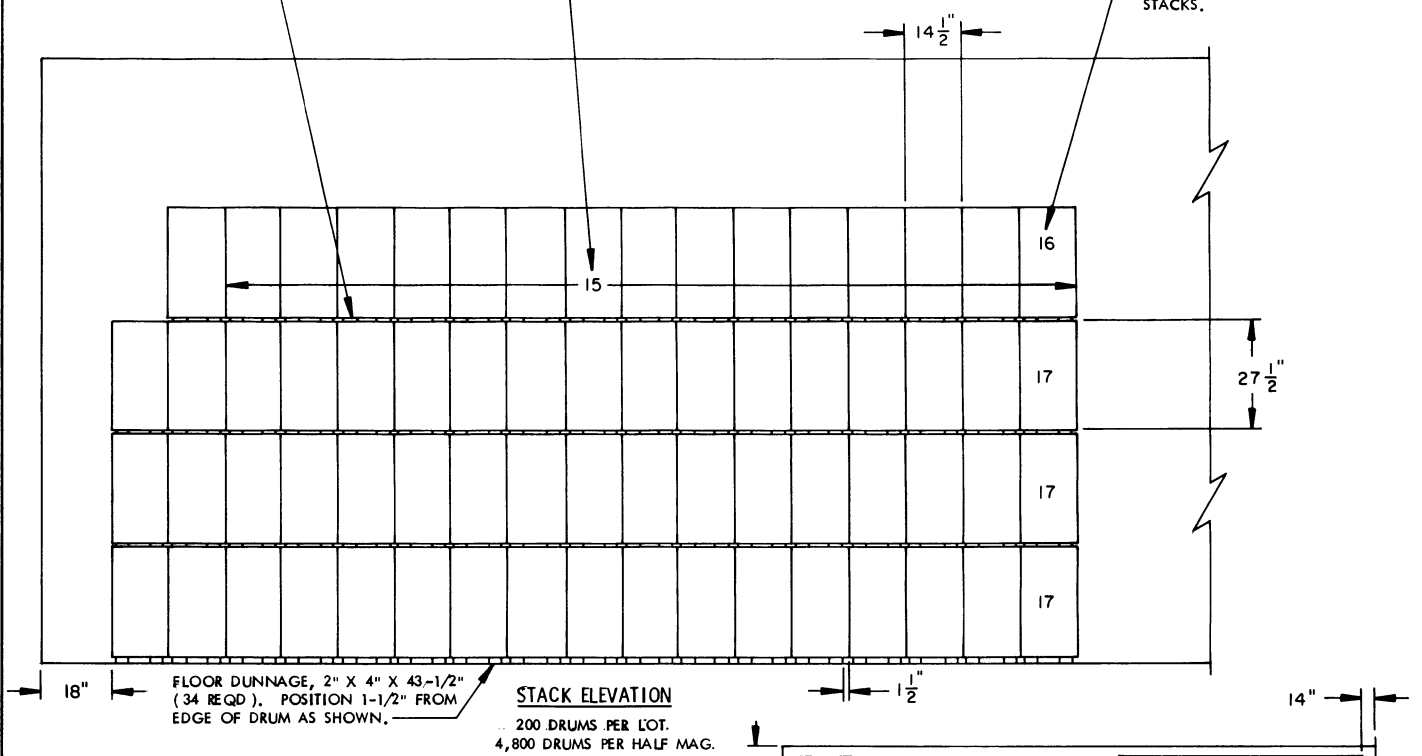
PLAN VIEW
(1/2 OF MAGAZINE)

THE EXPLOSIVE WEIGHT FOR 1/2 OF A MAGAZINE AS SHOWN ABOVE IS 376,320 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

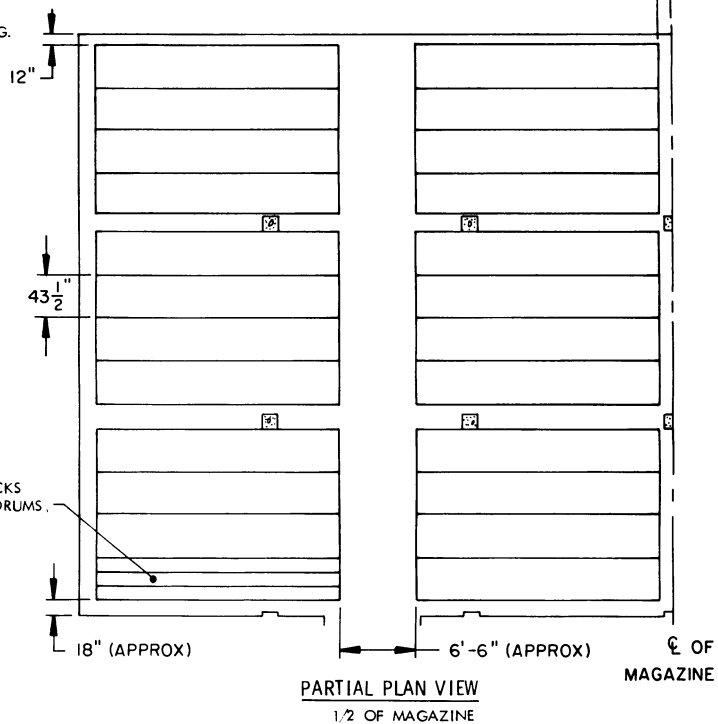
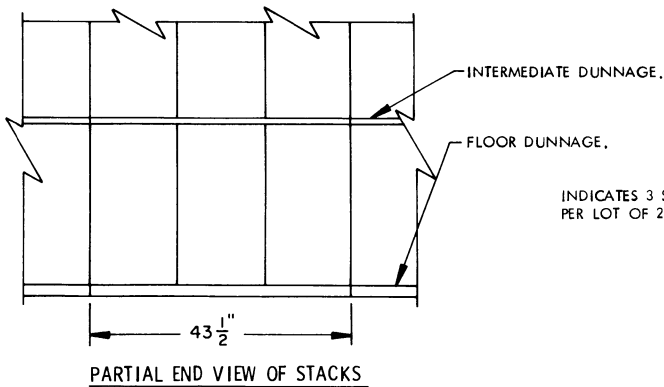
INTERMEDIATE DUNNAGE, 1" X 4" X 43-1/2"
(100 REQD PER LOT). POSITION 1-1/2" FROM
EDGE OF DRUM AS SHOWN.

INDICATES NUMBER OF DRUMS IN TOP ROW/LAYER
OF FIRST OF EACH THREE STACKS.

INDICATES NUMBERS OF
DRUMS IN TOP ROW/LAYER
OF SECOND AND THIRD
STACKS.



BILL OF MATERIAL (PER LOT)			
	LUMBER	LINEAR FEET	BOARD FEET
LOT	1" X 4"	363	121
	2" X 4"	124	83



SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR FIBERBOARD DRUMS.
DIMENSIONS -----27-1/2" HIGH BY 14-1/2" DIAMETER.
EXPLOSIVE WEIGHT --50 POUNDS.
- DRUMS WILL BE STORED IN LOTS OF 200 (10,000 LBS) TWO (2) STACKS OF 67 DRUMS AND ONE (1) STACK OF 66 DRUMS AS SHOWN IN THE STACK ELEVATION AND PARTIAL PLAN VIEW.
- NOTE: THE STORAGE PROCEDURES SHOWN ON THIS PAGE SHOULD ONLY BE USED WHEN STORING FIBERBOARD DRUMS OF NITROGUANIDINE IN GEOGRAPHICAL AREAS IN WHICH THERE IS A HIGH HUMIDITY LEVEL. FOR GEOGRAPHICAL AREAS WHICH HAVE LOW HUMIDITY LEVELS, USE THE STORAGE PROCEDURES ON PAGE 61.

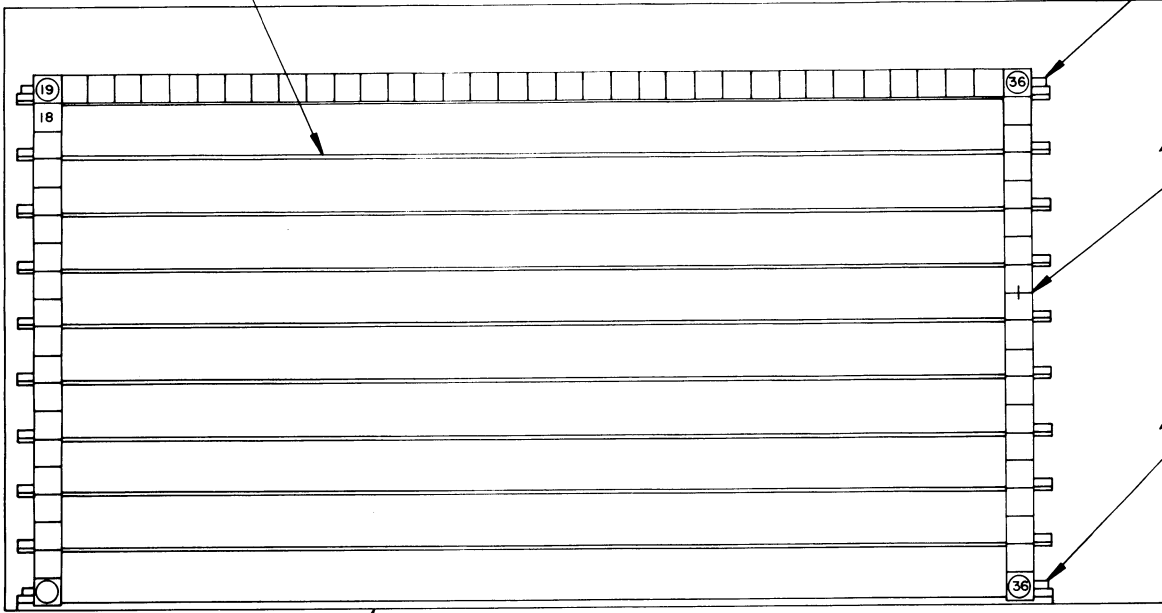
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(SPECIAL NOTES CONTINUED)

- NITROGUANIDINE PACKED IN A 14.5" DIAMETER BY 17.04" HIGH DRUM AND PALLETIZED IN ACCORDANCE WITH NAVAL SEA SYSTEMS COMMAND DRAWING NR-53/827 WILL BE STORED BY USING THE PROCEDURES SHOWN IN U.S. ARMY AMC (DARCOM) DRAWING 19-48-4118-1-2-3-4-14-22PA1002.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (18 REQD PER STACK), NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPLICE DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 7'-3-1/4" (4 REQD PER STACK), POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4.



SEE SPECIAL NOTE 6 BELOW.

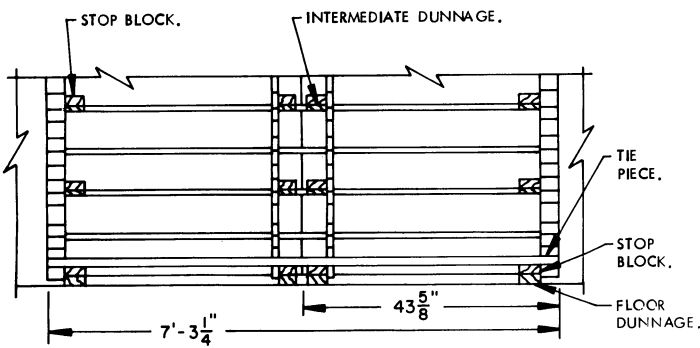
STOP BLOCK, 2" X 4" X 5" (40 REQD PER STACK). NAIL THE BOTTOM STOP BLOCK TO THE FLOOR DUNNAGE W/3-10d NAILS.

STACK ELEVATION

684 CONTAINERS PER STACK.
15,504 CONTAINERS PER HALF MAG.

FLOOR DUNNAGE, 2" X 4" BY LENGTH TO SUIT (2 REQD PER STACK). SEE THE "SPLICE DETAIL" ON PAGE 74.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 36 LONG	1" X 4"	427	143
	2" X 4"	71	48
SINGLE STACK 24 LONG	1" X 4"	269	90
	2" X 4"	53	36
	NAILS	NO. REQD	POUNDS
SINGLE STACK 36 LONG	6d (2")	108	3/4
	10d (3")	36	3/4
SINGLE STACK 24 LONG	6d (2")	108	3/4
	10d (3")	36	3/4

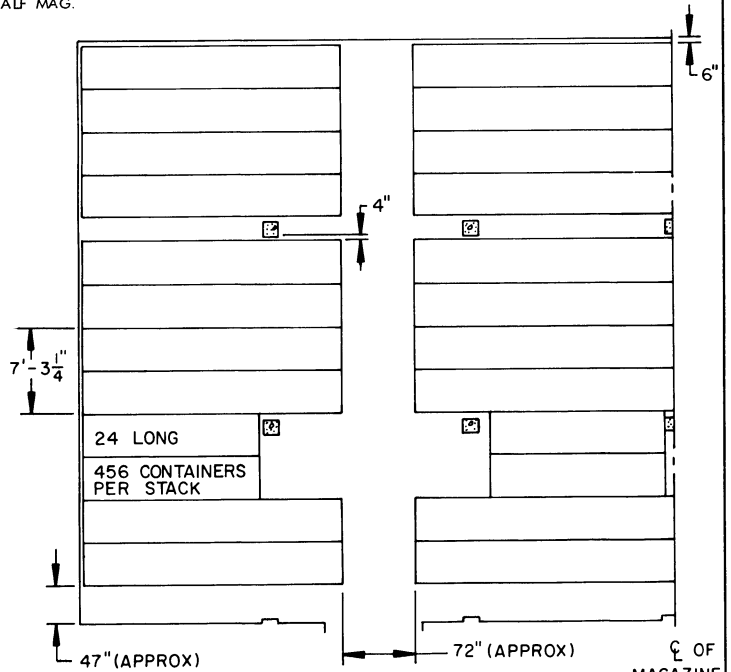


PARTIAL END VIEW OF DOUBLE STACK

SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE PA98 CONTAINER, USE THIS SAME STORAGE FORMAT FOR ALL PA98 SERIES CONTAINERS.
CONTAINER DIMENSIONS- 43-5/8" LONG BY 7-1/8" WIDE BY 7-1/8" HIGH.
- THE NUMBERS SHOWN ON THE RIGHT SIDE OF THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK. THE NUMBERS ON THE LEFT SIDE OF THE STACK INDICATE THE NUMBER OF CONTAINERS HIGH IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.

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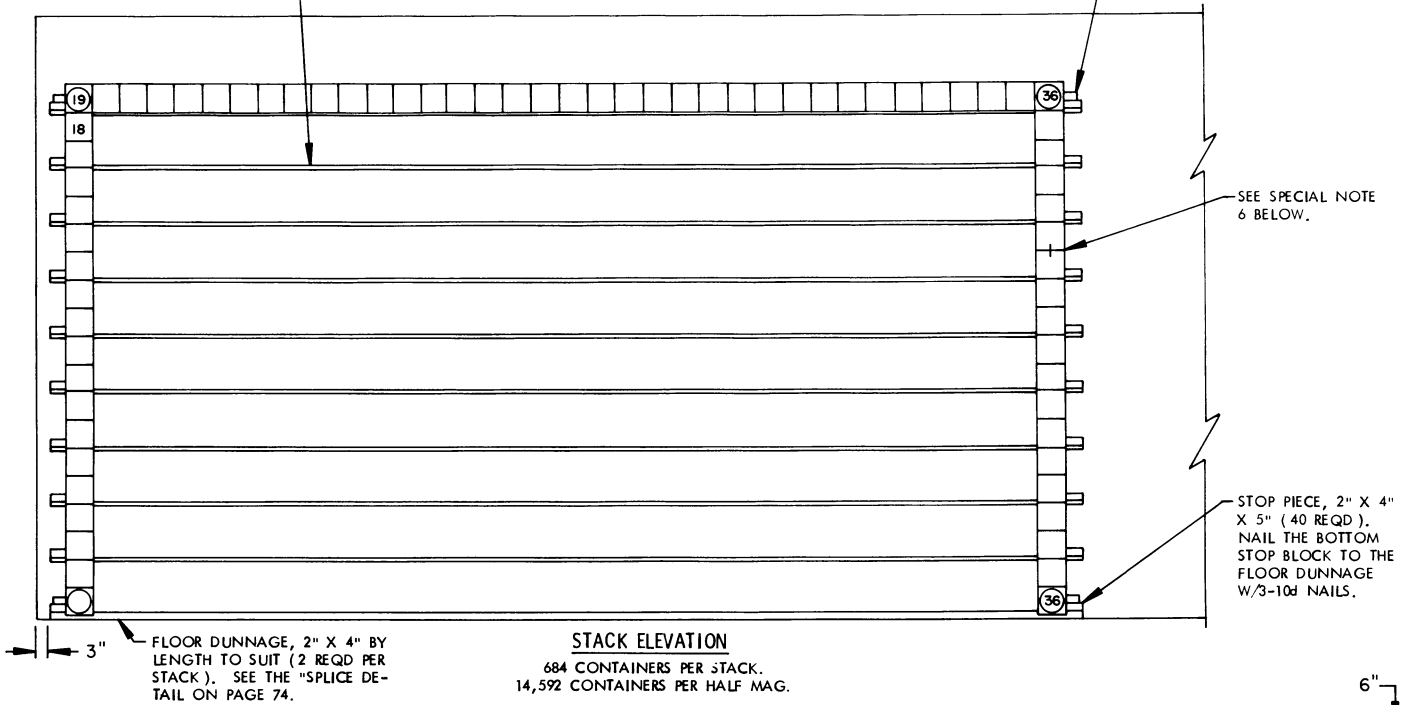
PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

(SPECIAL NOTES CONTINUED)

- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.
- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- NOTE: THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

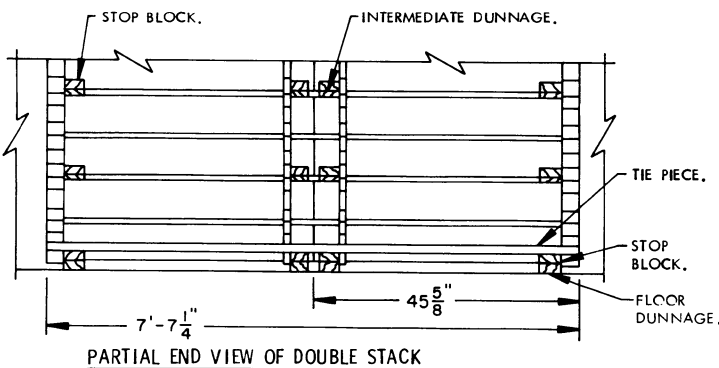
INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (18 REQD PER STACK). NAIL TO THE STOP BLOCKS W/3-6d NAILS AT EACH END. SEE THE "SPLICE DETAIL" ON PAGE 74.

TIE PIECE, 2" X 4" X 7'-7-1/4" (4 REQD PER STACK). POSITION AGAINST THE END CONTAINER AND NAIL TO THE STOP BLOCKS W/3-10d NAILS AT EACH JOINT. SEE SPECIAL NOTE 4.

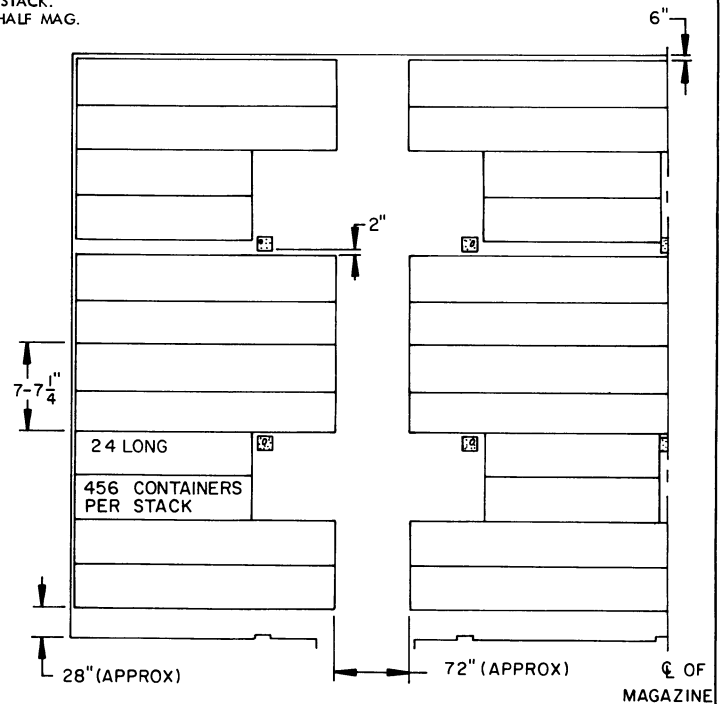


STACK ELEVATION
684 CONTAINERS PER STACK.
14,592 CONTAINERS PER HALF MAG.

BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
SINGLE STACK 36 LONG	1" X 4"	427	143
	2" X 4"	73	49
SINGLE STACK 24 LONG	1" X 4"	269	90
	2" X 4"	54	36
	NAILS	NO. REQD	POUNDS
SINGLE STACK 36 LONG	6d (2")	108	3/4
	10d (3")	36	3/4
SINGLE STACK 24 LONG	6d (2")	108	3/4
	10d (3")	36	3/4



PARTIAL END VIEW OF DOUBLE STACK



PARTIAL PLAN VIEW
(1/2 OF MAGAZINE)

SPECIAL NOTES:

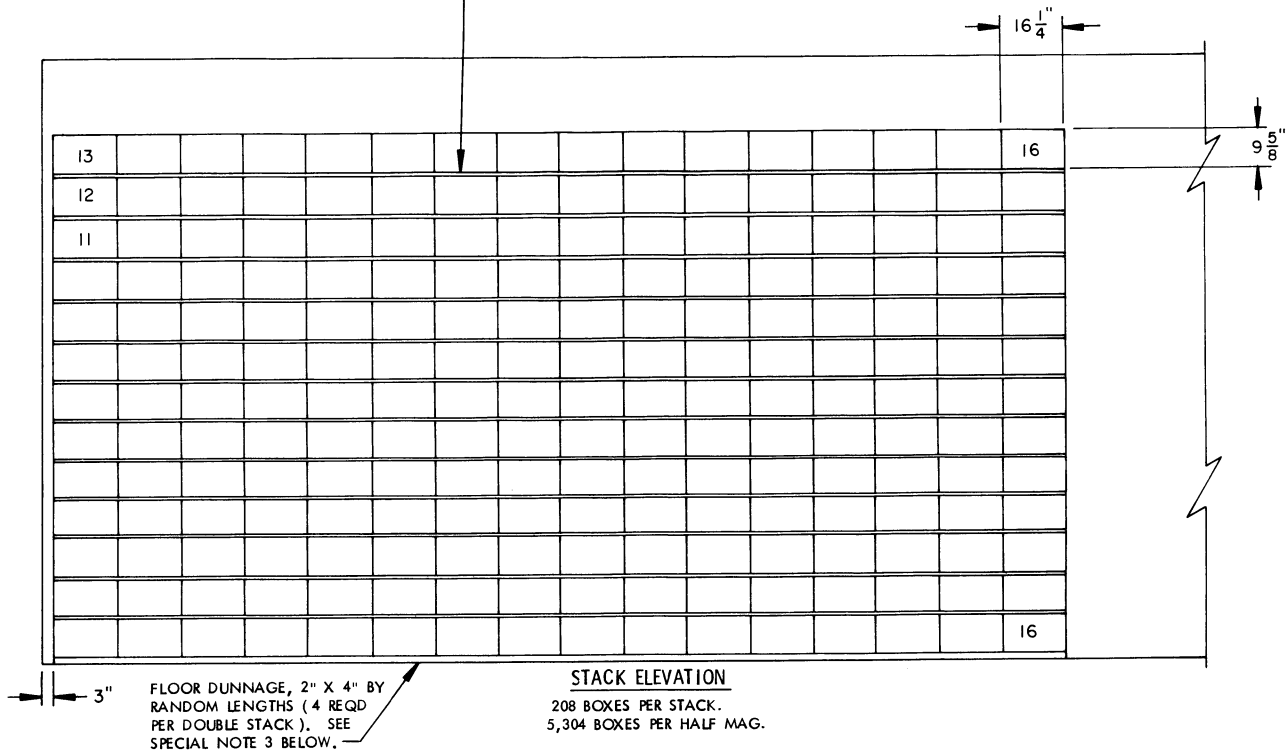
- STORAGE AS SHOWN IS FOR THE PA104 CONTAINER. USE THIS SAME STORAGE FORMAT FOR ALL PA104 SERIES CONTAINERS.
CONTAINER DIMENSIONS - 45-5 7/8" LONG BY 7-1 7/8" WIDE BY 7-1 7/8" HIGH.
- THE NUMBERS SHOWN ON THE RIGHT SIDE OF THE STACK ELEVATION INDICATE THE QUANTITY OF CONTAINERS PER LAYER IN A STACK. THE NUMBERS ON THE LEFT SIDE INDICATE THE NUMBER OF CONTAINERS HIGH IN A STACK.
- STORE IN DOUBLE STACKS FOR BETTER STABILITY. SEE THE "PARTIAL END VIEW OF DOUBLE STACK" ON THIS PAGE.

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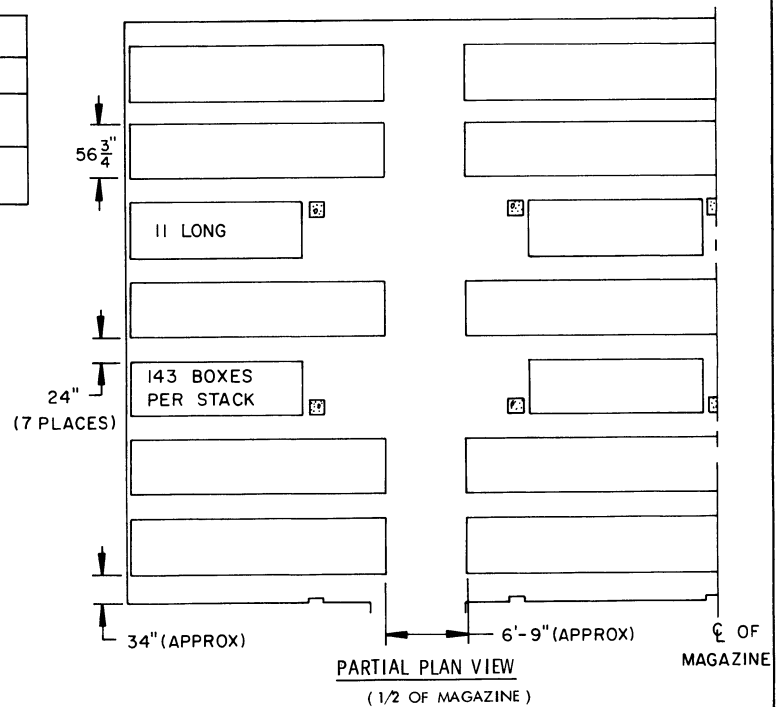
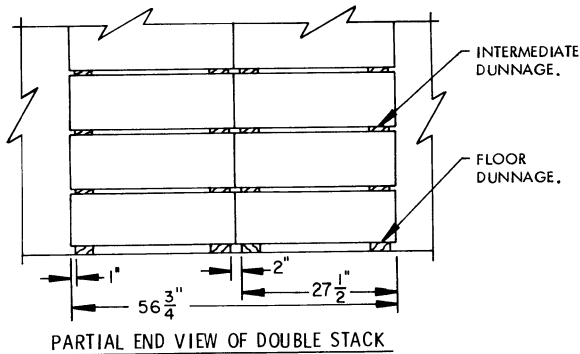
(SPECIAL NOTES CONTINUED)

- NOTE: THE "TIE PIECE" EQUALS THE APPROXIMATE LENGTH OF TWO (2) CONTAINERS AND AIDS IN STABILIZING THE STACKS. A "TIE PIECE" IS USED ONLY ON THE BOTTOM LAYER AND TOP LAYER OF DUNNAGE.
- NOTE: JOINTS IN INTERMEDIATE DUNNAGE MUST BE STAGGERED BOTH HORIZONTALLY AND VERTICALLY.
- NOTE: THE INTERLOCKING PINS ON EACH END OF A CONTAINER MUST INTERLOCK VERTICALLY WITH THE CONTAINER IN THE NEXT LAYER.

INTERMEDIATE DUNNAGE, 1" X 4" BY
RANDOM LENGTHS (24 REQD PER
STACK). SEE SPECIAL NOTE 3 BELOW.



BILL OF MATERIAL (PER STACK)			
	LUMBER	LINEAR FEET	BOARD FEET
DOUBLE STACK 16 LONG	1" X 4"	560	187
	2" X 4"	47	32
DOUBLE STACK 11 LONG	1" X 4"	358	120
	2" X 4"	30	20



SPECIAL NOTES:

- STORAGE AS SHOWN IS FOR THE M2 AND MK VII STEEL BOX.
BOX DIMENSIONS --- 16-1/4" LONG BY 9-5/8" WIDE BY 28-3/8" HIGH.
EXPLOSIVE WEIGHT - 110 POUNDS PER BOX.
- THE NUMBERS SHOWN ON THE RIGHT SIDE OF THE STACK ELEVATION INDICATE THE QUANTITY OF BOXES PER LAYER IN A STACK. THE NUMBERS ON THE LEFT SIDE INDICATE THE NUMBER OF BOXES HIGH IN A STACK.
- RANDOM LENGTH MATERIAL, OF NOT LESS THAN 48", MAY BE USED FOR THE 1" X 4" INTERMEDIATE DUNNAGE PIECES. THE JOINTS IN THE INTERMEDIATE DUNNAGE SHOULD BE CENTERED UNDER THE LENGTHS OF THE BOX, AND LATERALLY ADJACENT JOINTS MUST BE LOCATED AT LEAST 16" FROM EACH OTHER. ALSO, THE JOINTS IN AN UPPER LAYER OF A ROW MUST BE STAGGERED AT LEAST 16" FROM THE JOINTS IN THE NEXT LOWER LAYER.
- CONTAINERS MAY BE STACKED TO ALLOW EASE OF ACCESS FOR INSPECTION BASED ON OPERATIONAL AND STORAGE CONDITIONS. THE SELECTION OF A STORAGE PROCEDURE FROM THOSE DEPICTED ON PAGE 64, PAGE 65 OR ON THIS PAGE IS THE OPTION OF THE STORING ACTIVITY.

THE EXPLOSIVE WEIGHT FOR 1/2 OF MAGAZINE AS SHOWN ABOVE IS 583,440 POUNDS. SEE GENERAL NOTE "E" ON PAGE 2.

STORAGE METHOD C

POWDER, PROPELLANT (PACKED IN STEEL BOX, M2 AND MK VII)