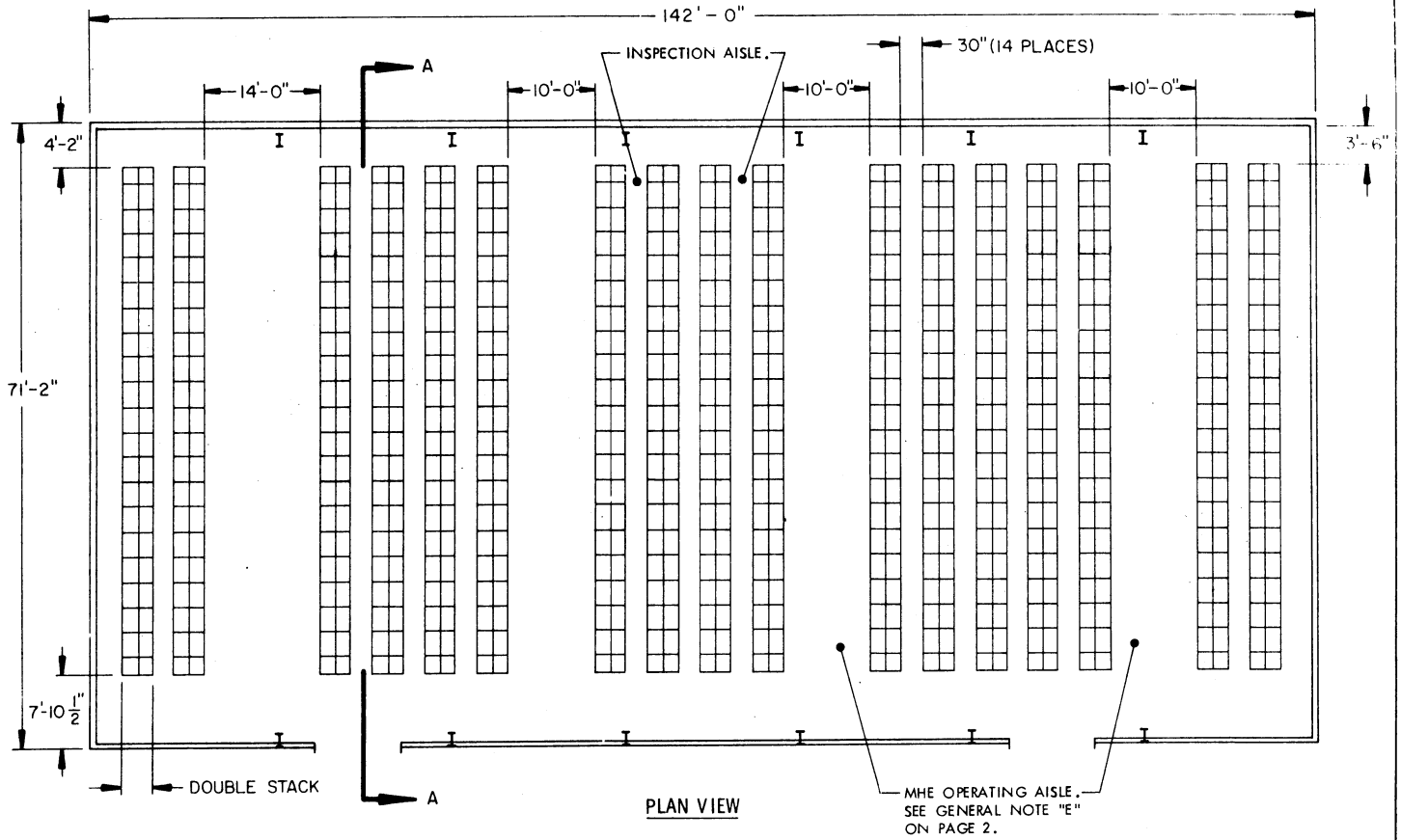


STORAGE IN NON-STANDARD ABOVE
GROUND MAGAZINES OF PROJECTILE,
CHEMICAL, 105 MM, PACKED 24
PER PALLET

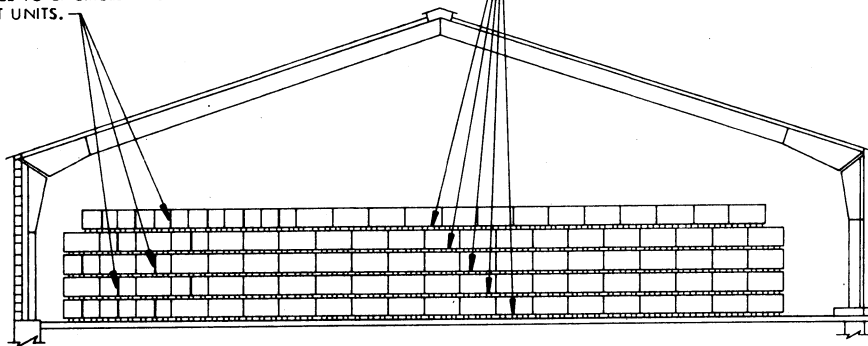
REVISIONS				DRAWNMAN	PROJ ENG
				<i>R. Max</i>	<i>MWD / J. J. J.</i>
				<i>R. J. J.</i>	<i>J. J. J.</i>
				APPROVED, U. S. ARMY ARMAMENT MATERIEL READINESS COMMAND	
				<i>John S. Chodera</i>	
				APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)	
				<i>W. J. J.</i>	
				DARCOM AMMO CENTER	
				U. S. ARMY DARCOM DRAWING	
				MARCH 1977	
				CLASS	DIVISION
				19	48
				DRAWING	FILE
				4516	CB 10P1

DO NOT SCALE



BUNDLING STRAP, 1-1/4" X .035" X 11'-6" LONG
STEEL STRAPPING (1 REQD PER TWO PALLET UNITS).
INSTALL TO ENCIRCLE TWO LATERALLY ADJACENT
PALLET UNITS.

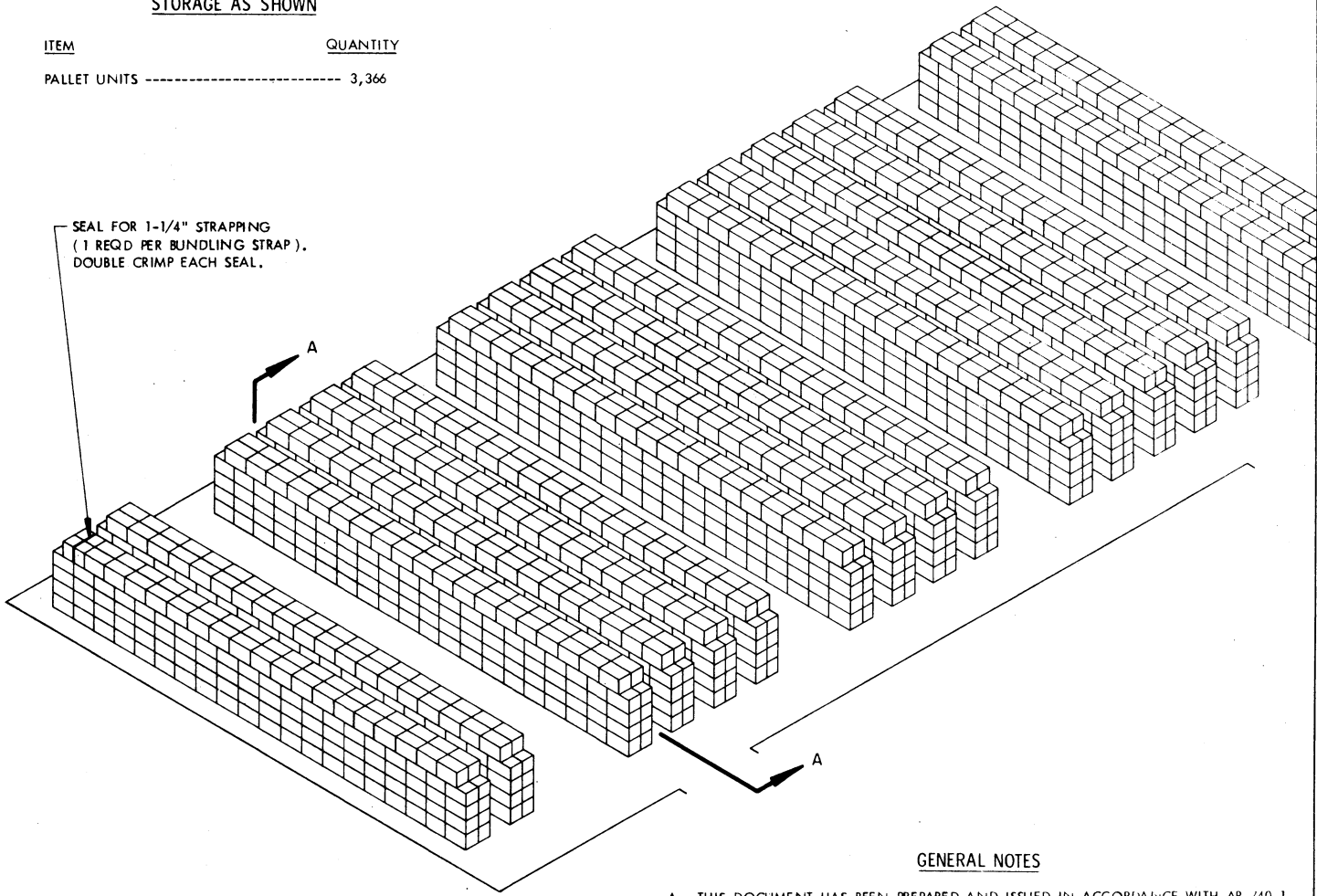
RISER, 2" X 4" X 40" FOR A DOUBLE-STACK (3 REQD UNDER
EACH TWO LATERALLY ADJACENT PALLET UNITS). SEE THE
"UNIT AND DUNNAGE PLACEMENT DETAILS" ON PAGE 4.



SECTION A-A
99 PALLETS PER SINGLE STACK.

STORAGE AS SHOWN

ITEM QUANTITY
 PALLET UNITS ----- 3,366



ISOMETRIC VIEW

GENERAL NOTES

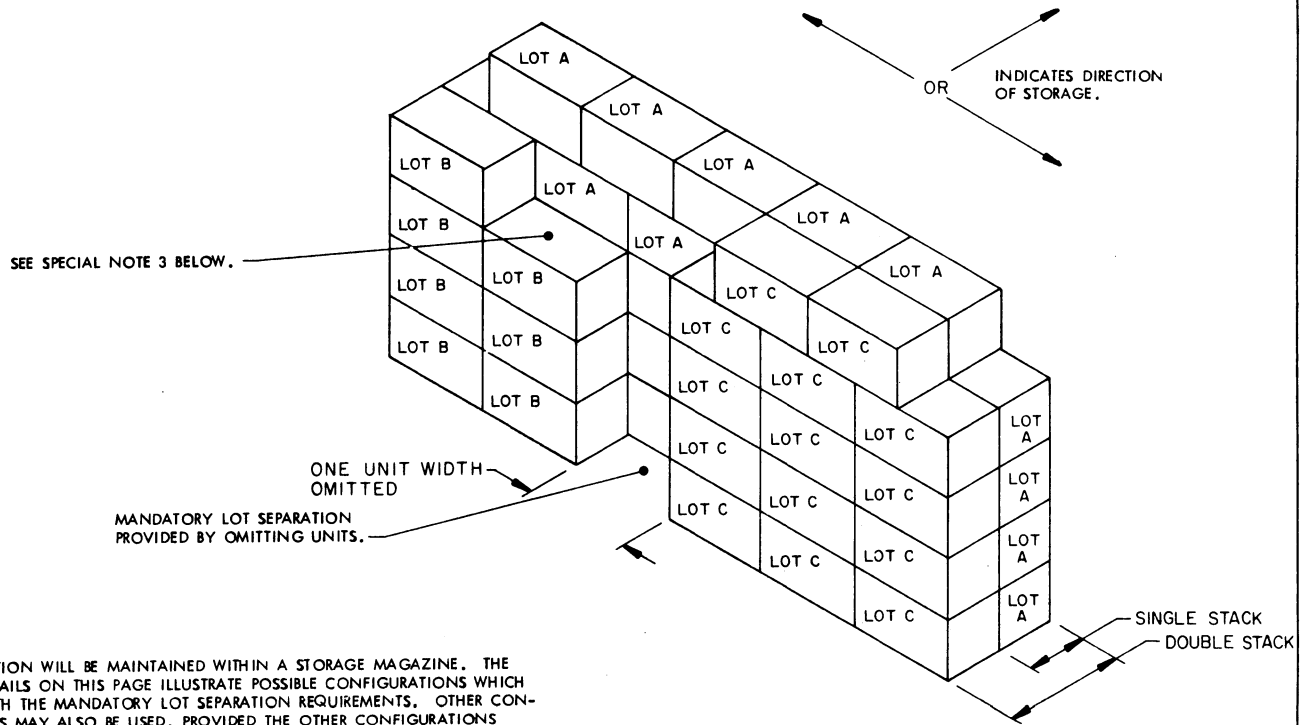
- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1, AND AUGMENTS TM 743-200-1 (CHAPTER 5), TM 9-1300-206 (CHAPTER 4), AND TM 3-250.
- B. PALLET UNIT DETAILS:
 DIMENSIONS ---- 20-1/2" LONG X 35-1/2" WIDE X 20" HIGH (APPROX).
 GROSS WEIGHT-- 799 POUNDS (APPROX).
- C. THE STORAGE PLAN DEPICTED HEREIN IS DESIGNED SPECIFICALLY FOR NON-STANDARD ABOVE GROUND MAGAZINES AT TOOELE ARMY DEPOT, AREA 2, SOUTH AREA.
- D. NOTE: THE PROCEDURES DEPICTED IN THIS STORAGE DRAWING ARE FOR 24-PROJECTILE PALLET UNITS. HOWEVER, THESE PROCEDURES CAN ALSO BE USED FOR STORING 15-PROJECTILE PALLET UNITS SIX LAYERS HIGH. THE QUANTITY OF PALLET UNITS PER STACK WILL BE INCREASED ACCORDINGLY.
- E. AISLE DIMENSIONS SHOWN IN THIS DRAWING MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE MATERIALS HANDLING EQUIPMENT; HOWEVER, THIRTY-INCH (30") MINIMUM ACCESS AISLES WILL BE PROVIDED, AS SHOWN TO FACILITATE INSPECTION. THE MHE OPERATING AISLES MAY BE AT LOCATIONS OTHER THAN SHOWN. ALSO, THE LOCATION OF THE 4 AND/OR 5 DOUBLE-STACK GROUPINGS MAY BE INTERMIXED AS DESIRED, HOWEVER, NOT MORE THAN 5 DOUBLE-STACKS WILL BE LOCATED BETWEEN MHE OPERATING AISLES.
- F. STORED PALLETS MUST NOT CONTACT THE WALLS OF THE MAGAZINE.
- G. THE MAGAZINE MUST COMPLY WITH ALL REQUIREMENTS AND BE APPROVED FOR THE STORAGE OF CHEMICAL ITEMS.
- H. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE AS PRESCRIBED BY LOCAL STANDARDS WILL NOT BE EXCEEDED.
- J. A COMBINATION OF MATERIAL HANDLING EQUIPMENT (MHE), SUCH AS FORK-LIFT TRUCKS, PALLET JACKS, AND OTHER APPROVED EQUIPMENT, MAY BE USED TO PLACE AND/OR REMOVE UNITS WITHIN A STACK.
- K. REFER TO PAGE 4 FOR GUIDANCE RELATIVE TO LOT SEPARATION REQUIREMENTS WHEN STORING MULTIPLE LOTS WITHIN A MAGAZINE.
- L. OTHER COMPATIBLE ITEMS MAY BE STORED IN A MAGAZINE WHICH IS PARTIALLY FILLED WITH THE DESIGNATED ITEM.
- M. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE 2" X 4" MATERIAL IS ACTUALLY 1-1/2" THICK BY 3-1/2" WIDE.
- N. WHEN ANY STRAP IS SEALED AT AN END-OVER-END LAP JOINT, A MINIMUM OF ONE (1) SEAL WITH TWO (2) PAIR OF CRIMPS PER SEAL MUST BE USED TO SEAL THE JOINT.

BILL OF MATERIAL (PER DOUBLE-STACK)

LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	990	660
STEEL STRAPPING, 1-1/4" X .035"	1,139' REQD	163 LBS
SEALS FOR 1-1/4" STRAPPING	99 REQD	5 LBS

MATERIAL SPECIFICATIONS

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

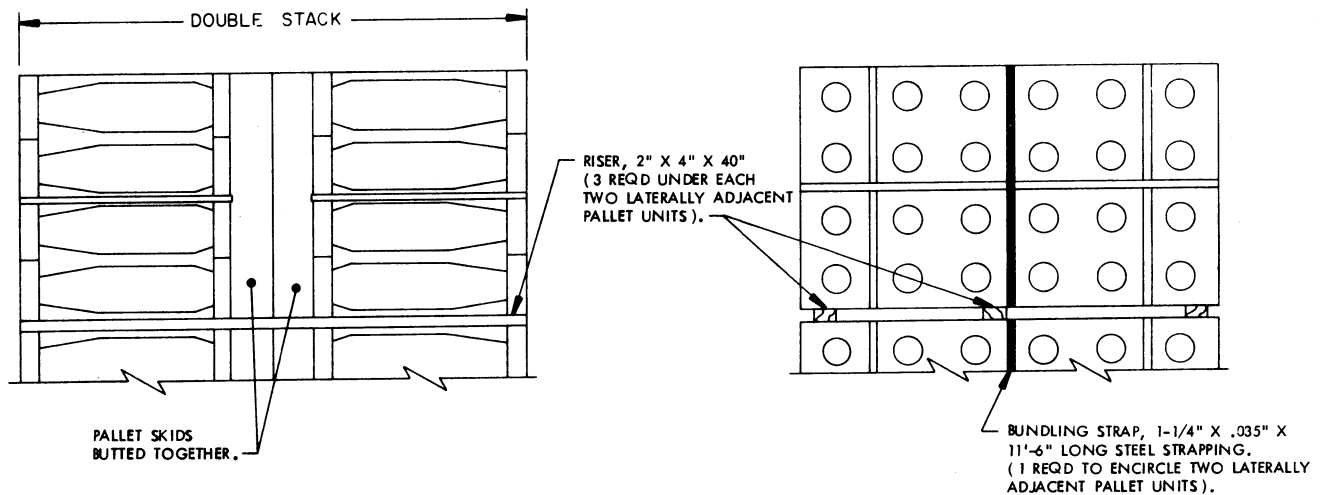


TYPICAL LOT SEPARATION DETAIL

SPECIAL NOTES:

1. LOT SEPARATION WILL BE MAINTAINED WITHIN A STORAGE MAGAZINE. THE TYPICAL DETAILS ON THIS PAGE ILLUSTRATE POSSIBLE CONFIGURATIONS WHICH COMPLY WITH THE MANDATORY LOT SEPARATION REQUIREMENTS. OTHER CONFIGURATIONS MAY ALSO BE USED, PROVIDED THE OTHER CONFIGURATIONS COMPLY WITH THE BASIC REQUIREMENTS STATED HEREIN.
2. RELATIVE TO A DOUBLE-STACK CONFIGURATION, AS DEPICTED, UNITS OF ONE LOT IN A SINGLE STACK WILL NOT REQUIRE SEPARATION FROM UNITS OF A DIFFERENT LOT IN THE OTHER SINGLE STACK. HOWEVER, WHEN STORING MULTIPLE LOTS WITHIN A MAGAZINE, DIFFERENT LOTS WILL BE SEPARATED WITHIN A SINGLE STACK AS SHOWN.
3. ONE LOT WILL NOT BE STACKED ON TOP OF ANOTHER LOT.

MULTIPLE LOT STORAGE REQUIREMENTS



UNIT AND DUNNAGE PLACEMENT DETAILS