

# STORAGE IN APPROVED MAGAZINES OF 155MM SEPARATE LOADING PROJECTILES, UNITIZED 8 ROUNDS PER 14-5/8" L X 29-1/8" W X 39-3/8" H PALLET UNIT

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● THE PROCEDURES HEREIN APPLY TO STANDARD 37-7/8" H THRU 39-3/8" H PALLET UNITS. HEIGHTS OF UNITS MAY VARY SLIGHTLY FROM THE DIMENSIONS SHOWN, HOWEVER, PROCEDURES SPECIFIED HEREIN WILL APPLY.

U.S. ARMY MATERIEL COMMAND DRAWING			
APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND <i>DAVID A. PISKOVIC</i> SMCAR-ESK	DRAFTSMAN	I. DEPPE	
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NOVEMBER 1991			
REVISION NO. 3	DECEMBER 1993	CLASS	DIVISION
SEE THE REVISION LISTING ON PAGE 2		DRAWING	FILE
		19	48
		4102/2	1-2-3-4-14 22PE1001

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 IN VARIOUS TYPES AND SIZES OF MAGAZINES. THE STORAGE PROCEDURES DEPICTED FOR THE SPECIFIC TYPES OF MAGAZINES MAY ALSO BE UTILIZED TO STORE PALLET UNITS 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 FOLLOWED.
- C. CAUTION: THE ALLOWABLE "EXPLOSIVE LIMIT" ESTABLISHED FOR A MAGAZINE IS NOT TO BE EXCEEDED. STORAGE OF SOME SPECIFIC TYPES OF SEPARATE LOADING PROJECTILES MUST ALSO COMPLY WITH CURRENT DIRECTIVES AND OTHER REGULATORY REQUIREMENTS, IN ADDITION TO THOSE SPECIFIED IN THIS DRAWING.
- D. THREE (3) PALLET UNITS CAN BE HANDLED BY A FORKLIFT TRUCK AS ONE LOAD, IF THE LENGTH OF THE FORK TINES IS ADEQUATE TO PROVIDE FULL-LENGTH OR NEARLY FULL-LENGTH BEARING UNDER THE LOAD BEING HANDLED. OTHER APPLICABLE SAFETY CONTROLS (DIRECTIVES, REGULATIONS, ECT.) MUST BE OBSERVED. SEE NOTE "G" BELOW FOR ADDITIONAL REQUIREMENTS.
- E. STACK-STABILIZING DUNNAGE PIECES CONSISTING OF 2" X 4" MATERIAL WILL BE USED BETWEEN LAYERS OF PALLET UNITS TO PROVIDE CLEARANCE FOR THE FORK TINES OF THE FORKLIFT TRUCK FOR SAFE PLACEMENT OR REMOVAL OF UPPER LAYER PALLET UNITS. USUALLY, MOST 2" X 4" DUNNAGE PIECES WILL BE 42" LONG, HOWEVER, SOME 27" LONG PIECES WILL BE REQUIRED TO ACHIEVE THE STORAGE ARRANGEMENTS DEPICTED IN THIS DRAWING.
- F. IN CONJUNCTION WITH THE SPECIFIED STACK-LEVELING WEDGES AND/OR STACK-STABILIZING DUNNAGE, ADDITIONAL 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 BETWEEN STACKED UNITS 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. ALSO, "SHIMS" WILL BE USED IN LIEU OF SPECIFIED WEDGES IN STEEL ARCH TYPE MAGAZINES BECAUSE THE FLOOR SLOPES FROM THE REAR WALL TOWARD THE FRONT WALL. ADDITIONALLY "SHIMS" CAN BE USED WITHIN A CONCRETE ARCH TYPE MAGAZINE INSTEAD OF THE SPECIFIED WEDGES, PROVIDING THE MAGAZINE FLOOR DOES NOT SLOPE MORE THAN 1-1/4" FROM THE CENTER TO A SIDEWALL.
- G. TO FACILITATE STABLE AND SAFE HANDLING, BY A FORKLIFT TRUCK, IN STACKING THESE NARROW PALLET UNITS, THREE (3) PALLET UNITS SHOULD BE BUNDLED TOGETHER WITH TWO (2) STRAPS AS SPECIFIED IN AMC DRAWING 19-48-4076-20PE1001, REV. 1, TITLED "BUNDLING OF SEPARATE LOADING PROJECTILES FOR STORAGE AND TRANSPORT". OCCASIONALLY, PALLET UNITS WILL ALREADY BE BUNDLED WHEN THEY ARRIVE AT THE STORAGE LOCATION. THIS WILL NEGATE THE REQUIREMENT FOR BUNDLING UNITS PROVIDING THE UNITS ARE BUNDLED INTO THREE-PALLET BUNDLES WITH TWO (2) STRAPS AND ARE "ZINC COATED" STRAPS. LOOSE STRAPS SHOULD BE REPLACED. IN SOME INSTANCES, THE STORAGE PATTERN MAY REQUIRE SOME OF THE BUNDLED UNITS TO CONSIST OF ONLY TWO (2) PALLET UNITS AS IN "C" STACKS IN THE FRONTAL AREA OF A MAGAZINE AND FOR STORAGE IN CORBETTA MAGAZINES. BUNDLING STRAPS ARE NOT REQUIRED FOR PALLET UNITS STORED ONE-LAYER HIGH.

(GENERAL NOTES CONTINUED AT RIGHT)

## MATERIAL SPECIFICATIONS

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

STRAPPING, STEEL - - : ASTM D3953; FLAT STRAPPING, TYPE 1, HEAVY DUTY, FINISH B (GRADE 2).

SEAL, STRAP - - - - - : ASTM D3953; CLASS H, FINISH B (GRADE 2), DOUBLE NOTCH TYPE, STYLE I, II, OR IV.

## (GENERAL NOTES CONTINUED)

- H. STORED PALLET UNITS MUST NOT CONTACT THE WALLS OF A MAGAZINE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, UNITS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN AS NECESSARY.
- J. AISLE DIMENSIONS SHOWN FOR STORAGE PROCEDURES IN MAGAZINES MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS, VARIATIONS IN PALLET UNIT DIMENSIONS, AND/OR AVAILABLE MATERIALS HANDLING EQUIPMENT.
- K. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE AS PRESCRIBED BY LOCAL STANDARDS WILL NOT BE EXCEEDED.
- L. PORTIONS OF THE MAGAZINES, SUCH AS SIDEWALLS, END WALLS, AND ROOFS, HAVE NOT BEEN SHOWN IN THE STORAGE VIEWS FOR CLARITY PURPOSES.
- M. IF THE AVAILABLE MHE PERMITS, ADDITIONAL PALLETIZED UNITS MAY BE STORED WITHIN THE FRONTAL AREA AND/OR OTHER AVAILABLE AREA OF THE MAGAZINE.
- N. 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.
- P. STORAGE OF MULTIPLE LOTS IN A MAGAZINE WILL REQUIRE CAREFUL PREPLANNING SO AS TO ENSURE MHE ACCESSIBILITY TO ANY LOT IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE APPLICABLE "SPECIAL NOTES" SECTIONS OF THE MULTIPLE-LOT STORAGE PROCEDURES TYPICALLY SHOWN ON PAGE 22 THRU 28.
- Q. SOME "LIGHT" PALLETIZED UNITS MAY BE OFFERED FOR STORAGE. A "LIGHT" PALLET UNIT WILL CONTAIN NOT LESS THAN FOUR (4) PROJECTILES; (ONE IN EACH CORNER). IF 9 ROUNDS OF PROJECTILES REMAIN IN A PRODUCTION RUN OR FROM A "LIGHT" SHIPMENT, TWO (2) "LIGHT" PALLETS WILL BE OFFERED, ONE WITH FOUR (4) PROJECTILES AND ONE WITH FIVE (5) PROJECTILES, WHICH IS PERMISSIBLE FOR STORAGE AND SHIPMENT. PALLET UNITS SHOULD BE PROVIDED WITH PROPER AND SECURE BANDING FOR STABILITY AND WEIGHT DISTRIBUTION IN HANDLING FOR PLACEMENT IN STORAGE. "LIGHT" PALLET UNITS WILL NOT BE BURIED IN STORAGE. THEY MUST BE POSITIONED ADJACENT TO AN AISLE, PREFERABLY IN FRONT OF THE LOT.
- R. SEPARATE LOADING PROJECTILES PRESENTLY STORED IN ACCORDANCE WITH A PRIOR APPROVED 19-48 SERIES DRAWING NEED NOT BE RE-STORED SOLELY TO CONFORM TO THE PROCEDURES SPECIFIED IN THIS DOCUMENT.
- S. IF THE QUANTITY FOR A MAGAZINE IS TO BE REDUCED FROM WHAT IS SHOWN - DUE TO THE PERMITTED "EXPLOSIVE LIMIT" OR FOR ANY OTHER REASON, SUCH AS A LIMITED QUANTITY TO BE STORED - THE DELINEATED PROCEDURES ARE TO BE ADJUSTED BY OMITTING STACKS RATHER THAN BY OMITTING LAYERS.

## REVISIONS

REVISION NO. 1, DATED NOVEMBER 1991 CONSISTS OF:

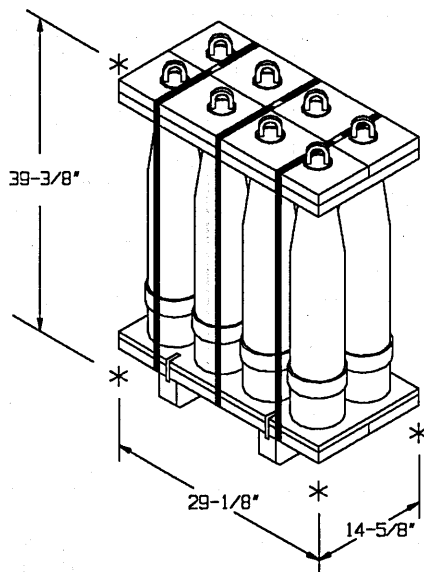
1. REVISING GENERAL NOTES "D", "E", AND "G".
2. ADDING MANDATORY REQUIREMENTS FOR BUNDLING UNITS WITH TWO (2) STRAPS.
3. CHANGING STACK-STABILIZING DUNNAGE BETWEEN LAYERS FROM 1" X 4" MATERIAL TO 2" X 4" MATERIAL.
4. UPDATING MATERIAL SPECIFICATIONS FOR STEEL STRAPPING AND SEALS.
5. UPDATING DRAWING FORMAT.

REVISION NO. 2, DATED JUNE 1993 CONSISTS OF:

1. REVISING GENERAL NOTES "D", "F", AND "G".
2. DELETING PROCEDURES FOR STORAGE IN OVAL ARCH AND STANDARD ABOVE GROUND MAGAZINES.
3. ADDING PROCEDURES FOR STORAGE IN STEEL ARCH MAGAZINES ON PAGES 16 AND 17.
4. DELETING "BUNDLING DETAIL" AND "SPECIAL NOTES" FROM PAGE 3.
5. ADDING REFERENCE TO AMC DRAWING 19-48-4076-20PE1001, REV. 1, TO GENERAL NOTE "G" FOR BUNDLING PROCEDURES.
6. CHANGING PAGE NUMBERS AS NECESSARY.

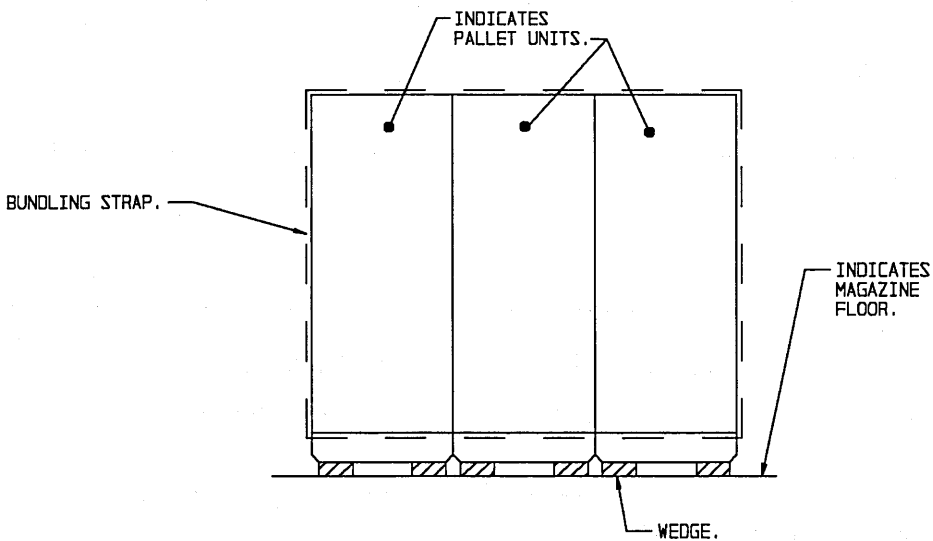
REVISION NO. 3, DATED DECEMBER 1993 CONSISTS OF:

1. CHANGING GENERAL NOTE "Q" REGARDING "LIGHT" PALLETS.
2. UPDATING MATERIAL SPECIFICATIONS FOR STEEL STRAPPING AND SEALS.



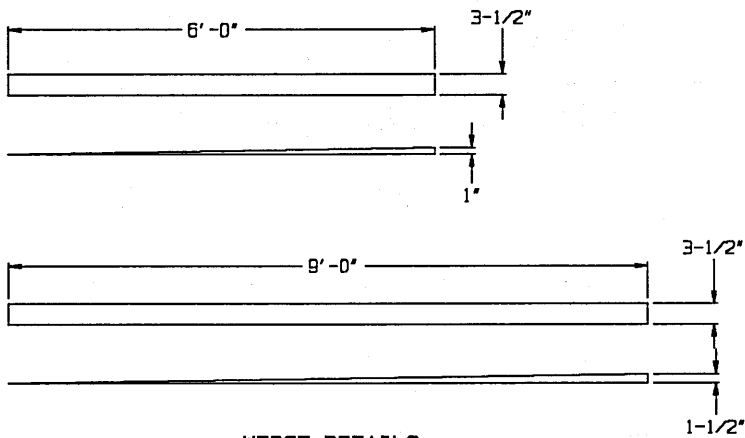
**155MM B/PALLET**

NOTE: HEIGHT OF UNIT MAY VARY SLIGHTLY.  
 UNIT WEIGHT - - - - - 810 LBS TO 890 LBS.



**WEDGE LOCATION DETAIL**

ISOMETRIC VIEWS WITHIN THIS DRAWING DO NOT DEPICT ALL WEDGES THAT ARE REQUIRED. WEDGES ARE SHOWN AT SOME LOCATIONS TO PROVIDE POSITIONING GUIDANCE.



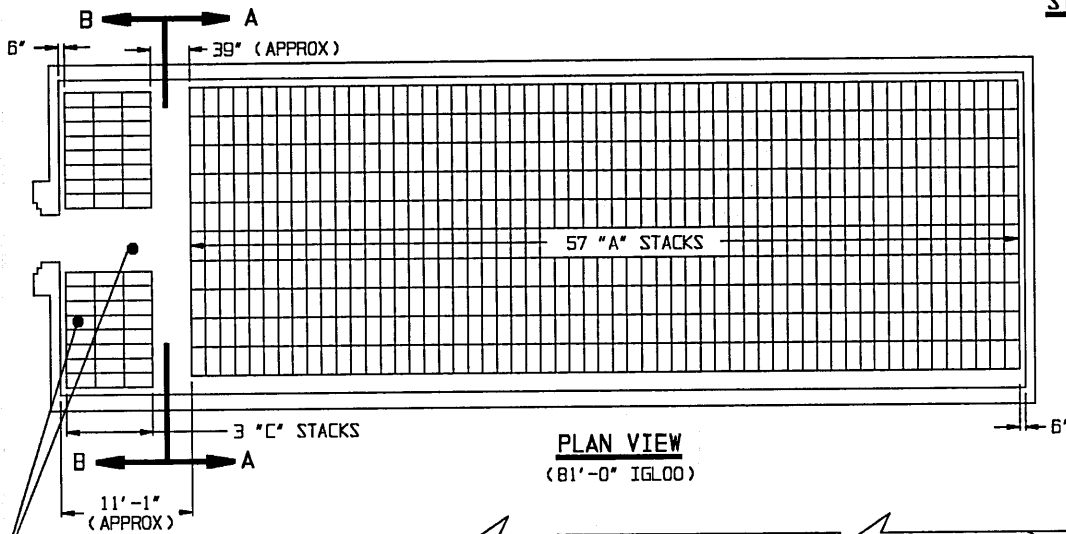
**WEDGE DETAILS**  
 2' X 4' MATERIAL

**DETAILS**

**STORAGE IN 81'-0" MAGAZINE**

(12'-9" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - -	1,449
PROJECTILES - - - -	11,592

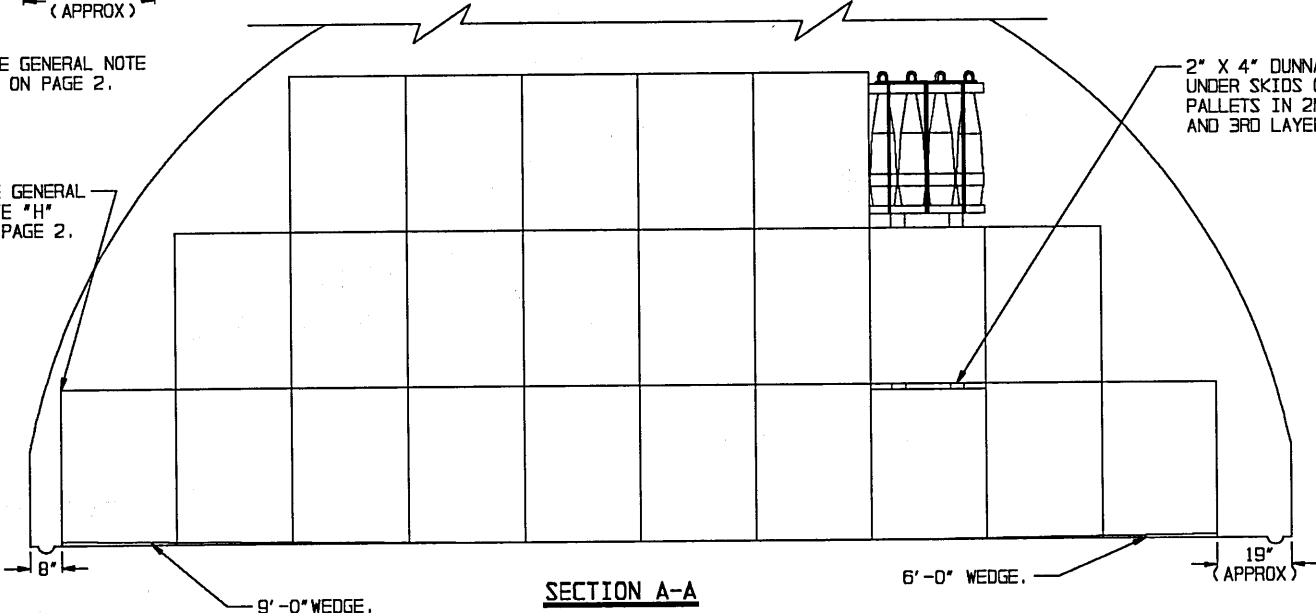


**PLAN VIEW**  
(81'-0" IGL00)

SEE GENERAL NOTE "M" ON PAGE 2.

SEE GENERAL NOTE "H" ON PAGE 2.

2" X 4" DUNNAGE UNDER SKIDS OF PALLETS IN 2ND AND 3RD LAYERS.



**SECTION A-A**

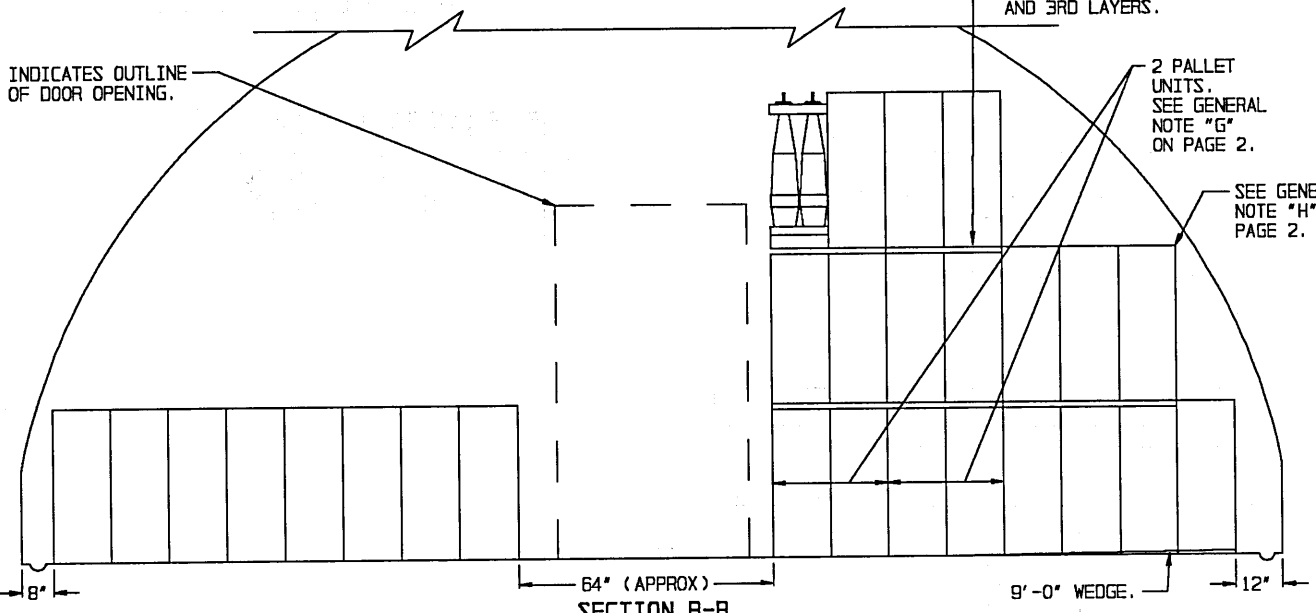
(\*A\* STACK, 24 PALLET UNITS)

INDICATES OUTLINE OF DOOR OPENING.

2" X 4" DUNNAGE UNDER SKIDS OF PALLETS IN 2ND AND 3RD LAYERS.

2 PALLET UNITS. SEE GENERAL NOTE "G" ON PAGE 2.

SEE GENERAL NOTE "H" ON PAGE 2.



**SECTION B-B**

(\*C\* STACK, 27 PALLET UNITS)

**STORAGE IN 60'-8" MAGAZINE**

(12'-9" HIGH)

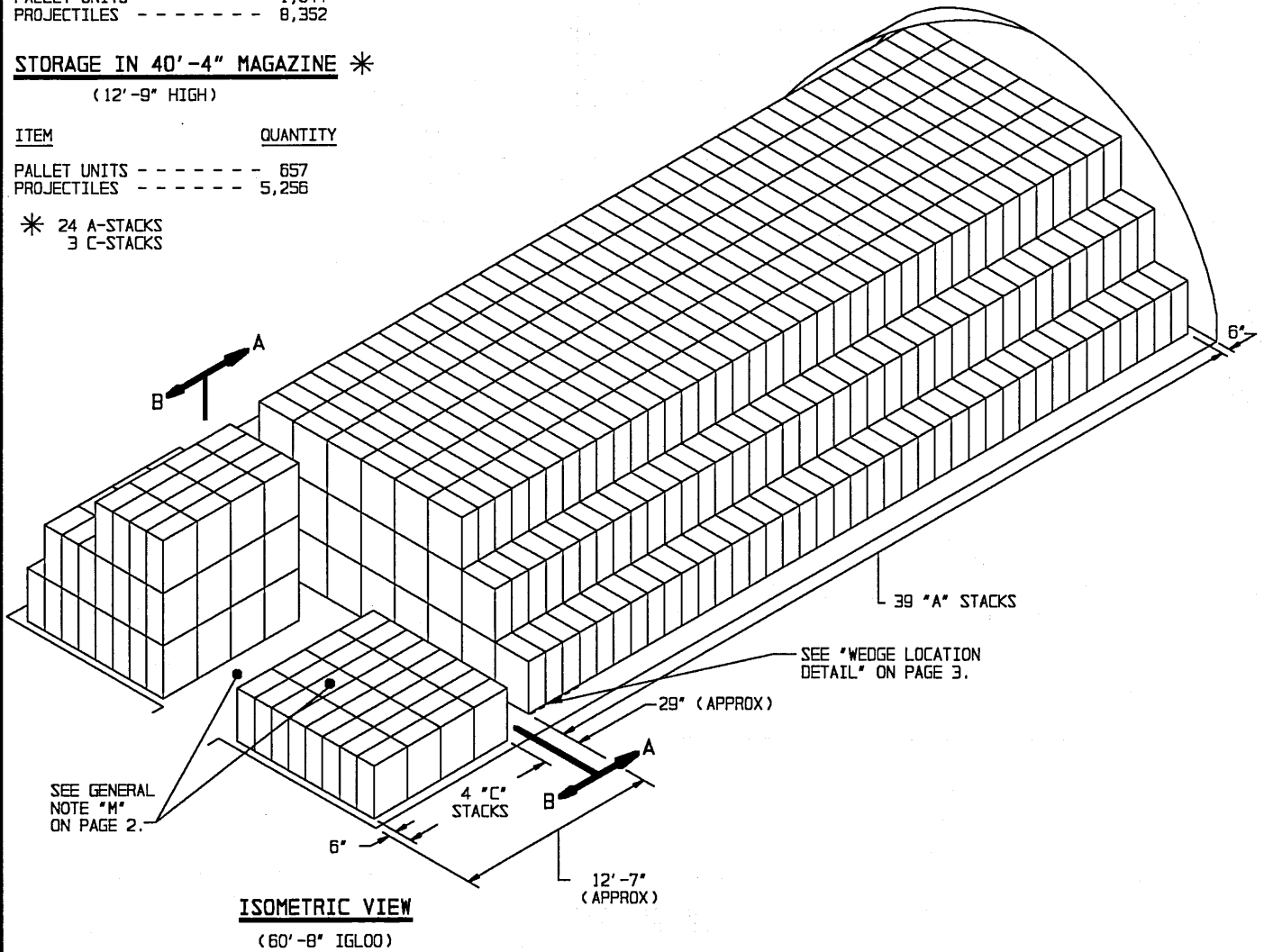
ITEM	QUANTITY
PALLET UNITS -----	1,044
PROJECTILES -----	8,352

**STORAGE IN 40'-4" MAGAZINE \***

(12'-9" HIGH)

ITEM	QUANTITY
PALLET UNITS -----	657
PROJECTILES -----	5,256

\* 24 A-STACKS  
3 C-STACKS



FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2. FOR "WEDGE DETAILS" SEE PAGE 3.

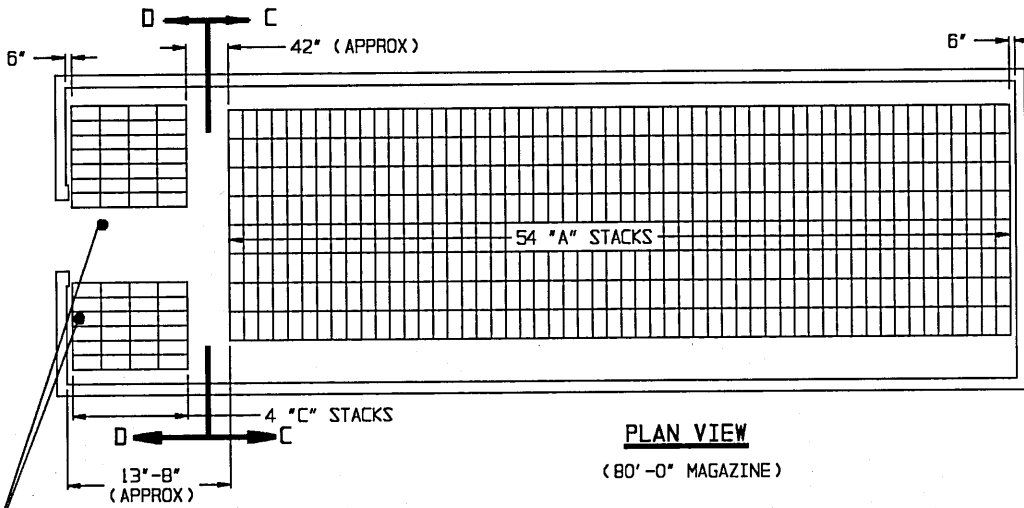
BILL OF MATERIAL (PER STACK)				
TYPE STACK	WEDGES		2" X 4" DUNNAGE LUMBER**	
	6'-0"	9'-0"	LINEAR FEET	BOARD FEET
A	2 REQD	2 REQD	32.67	21.78
C		2 REQD	25.00	16.67

\*\* SEE GENERAL NOTES "E" AND "F" ON PAGE 2.

**STORAGE IN 80'-0" MAGAZINE**

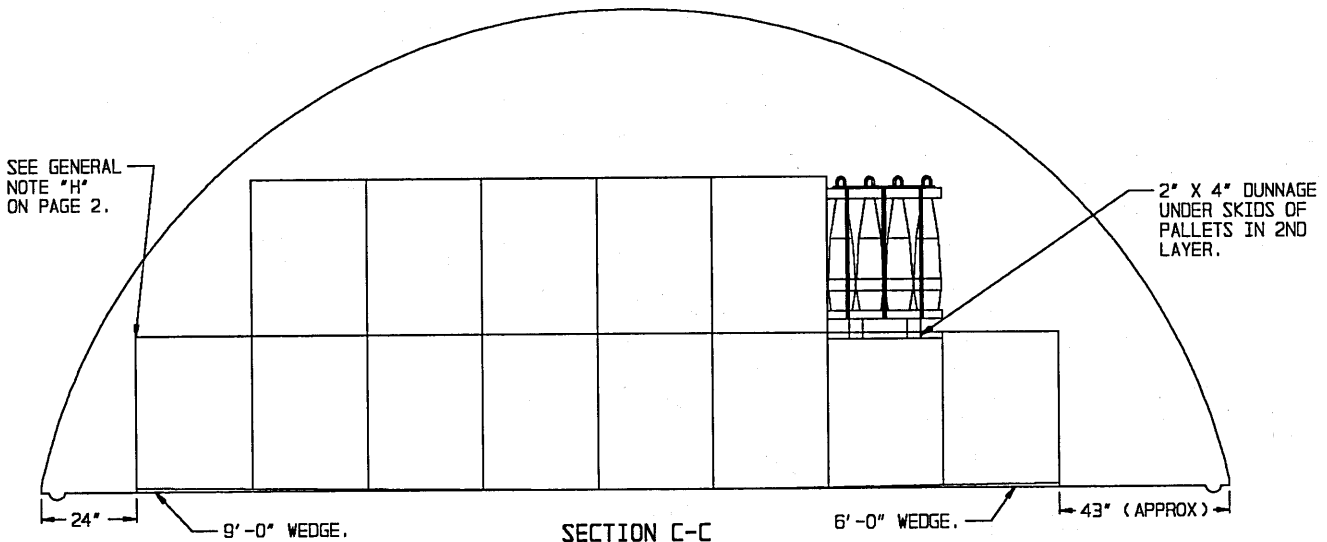
(10'-0" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - -	828
PROJECTILES - - - -	6,624



**PLAN VIEW**  
(80'-0" MAGAZINE)

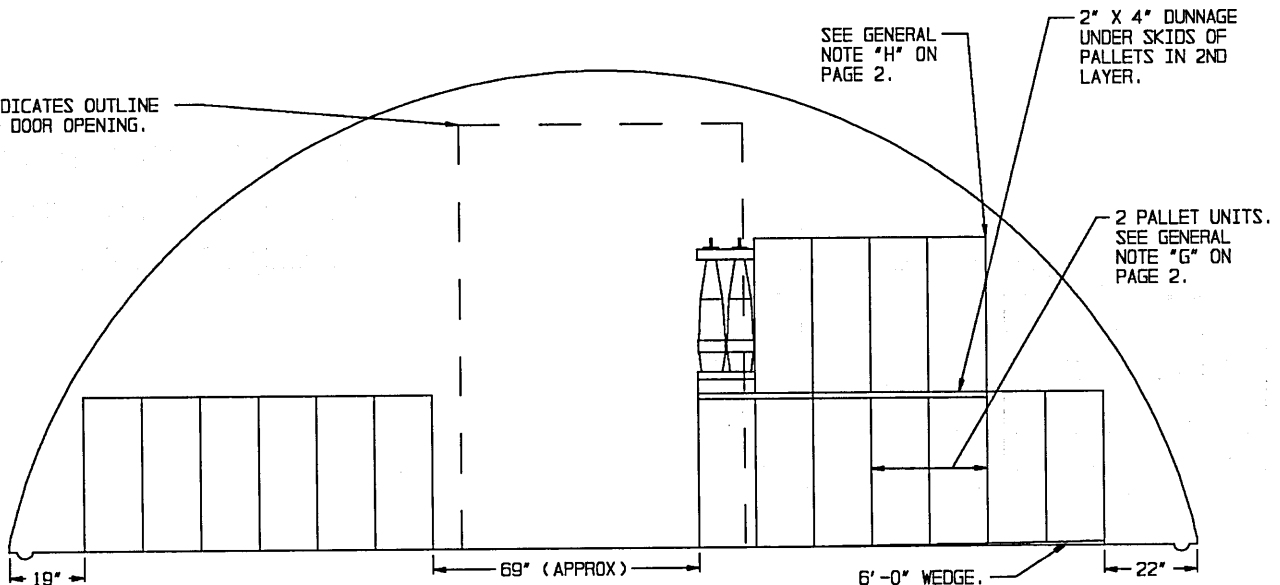
SEE GENERAL NOTE "M" ON PAGE 2.



**SECTION C-C**  
(\*A\* STACK, 14 PALLET UNITS)

SEE GENERAL NOTE "H" ON PAGE 2.

INDICATES OUTLINE OF DOOR OPENING.



**SECTION D-D**  
(\*C\* STACK, 18 PALLET UNITS)

SEE GENERAL NOTE "H" ON PAGE 2.

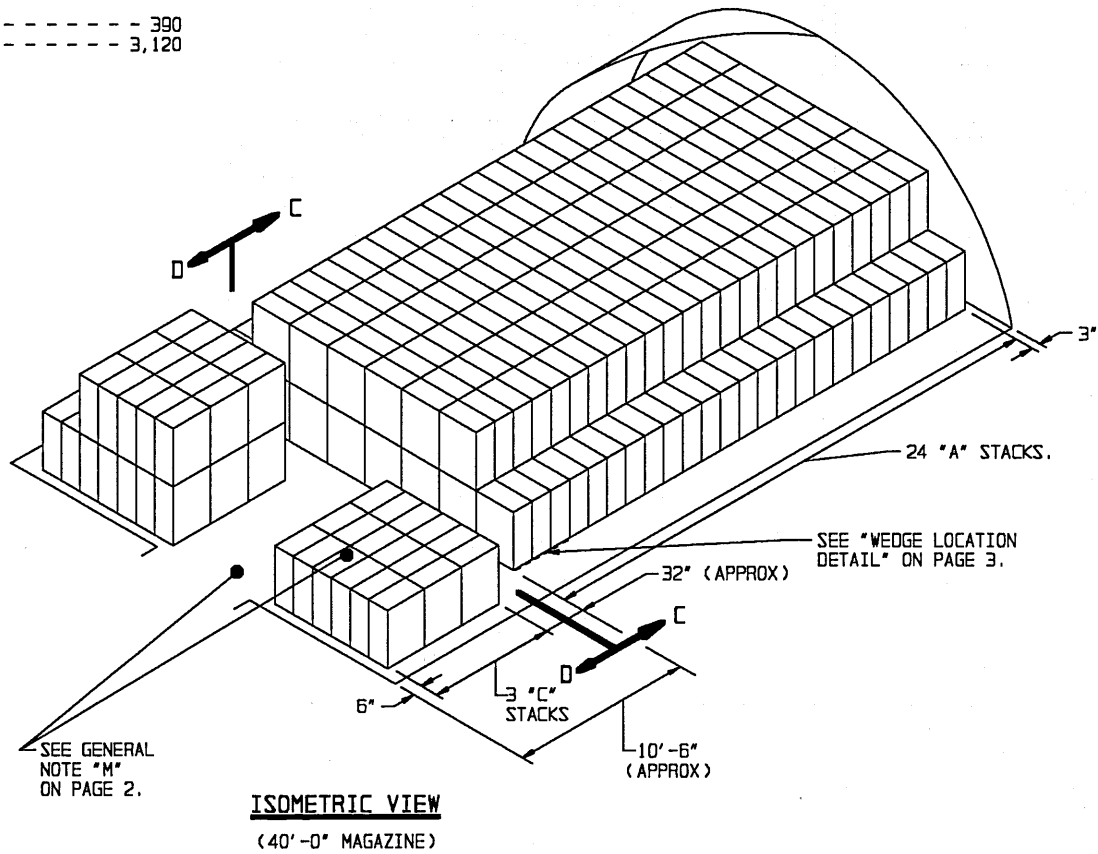
2' X 4" DUNNAGE UNDER SKIDS OF PALLET IN 2ND LAYER.

2 PALLET UNITS. SEE GENERAL NOTE "G" ON PAGE 2.

**STORAGE IN 40'-0" MAGAZINE**

(10'-0" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - - -	390
PROJECTILES - - - - -	3,120

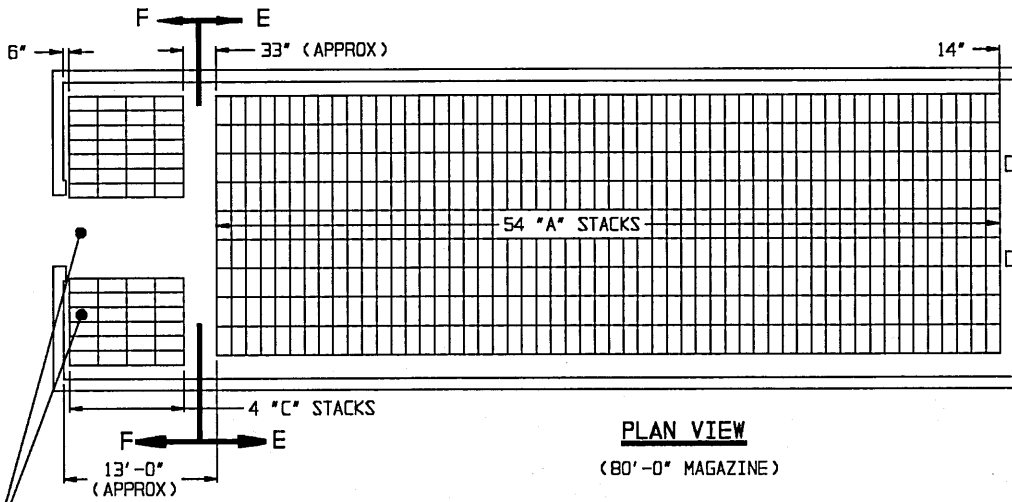


FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2. FOR "WEDGE DETAILS" SEE PAGE 3.

BILL OF MATERIAL (PER STACK)				
TYPE STACK	WEDGES		2" X 4" DUNNAGE LUMBER *	
	6'-0"	9'-0"	LINEAR FEET	BOARD FEET
A	2 REOD	2 REOD	14.00	9.33
C	2 REOD		11.50	7.67

\* SEE GENERAL NOTES "E" AND "F" ON PAGE 2.

**STORAGE IN 80'-0" MAGAZINE**



(11'-0" HIGH)

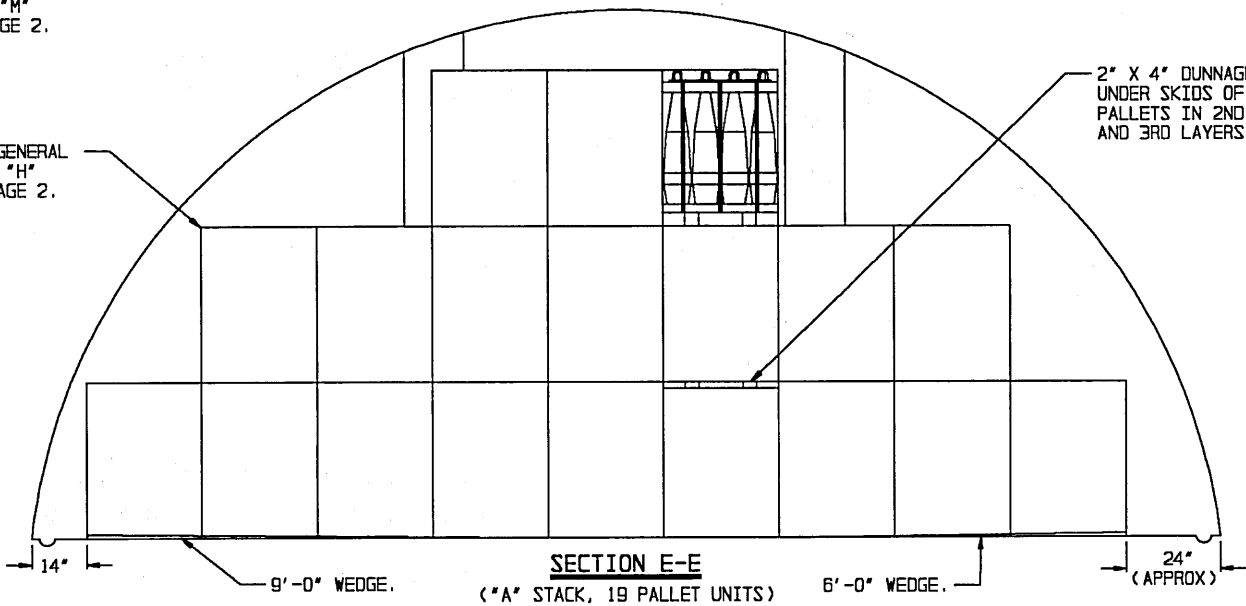
ITEM	QUANTITY
PALLET UNITS - - - -	1,110
PROJECTILES - - - -	8,880

**PLAN VIEW**  
(80'-0" MAGAZINE)

SEE GENERAL NOTE "M" ON PAGE 2.

SEE GENERAL NOTE "H" ON PAGE 2.

2" X 4" DUNNAGE UNDER SKIDS OF PALLETS IN 2ND AND 3RD LAYERS.

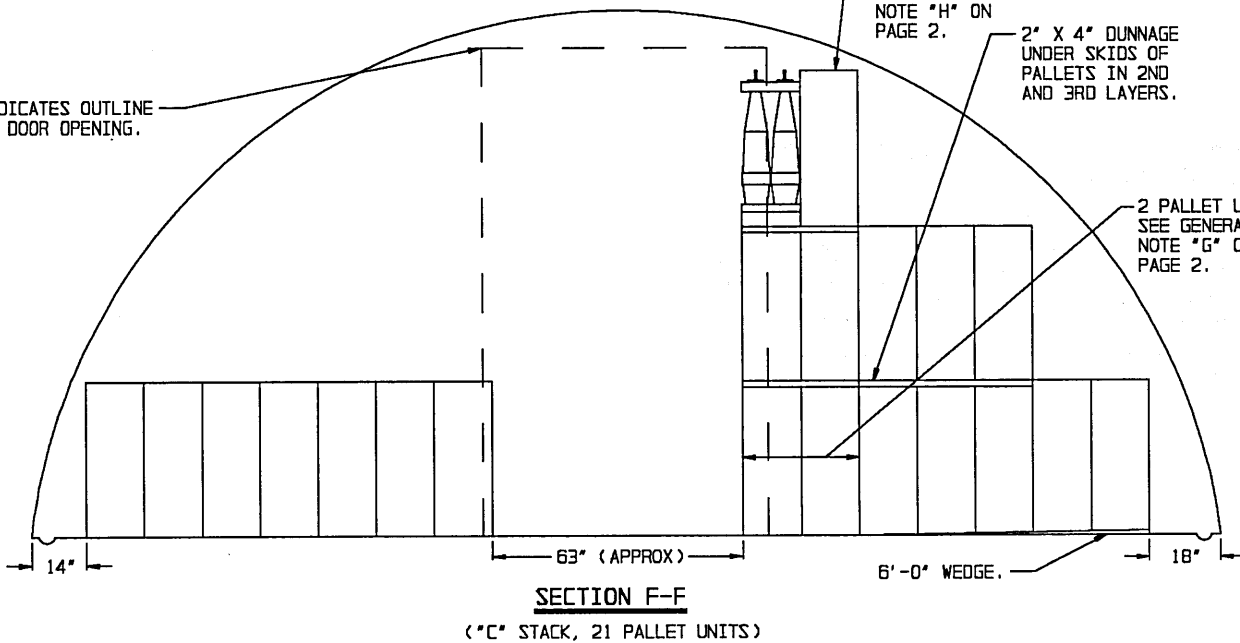


INDICATES OUTLINE OF DOOR OPENING.

SEE GENERAL NOTE "H" ON PAGE 2.

2" X 4" DUNNAGE UNDER SKIDS OF PALLETS IN 2ND AND 3RD LAYERS.

2 PALLET UNITS. SEE GENERAL NOTE "G" ON PAGE 2.

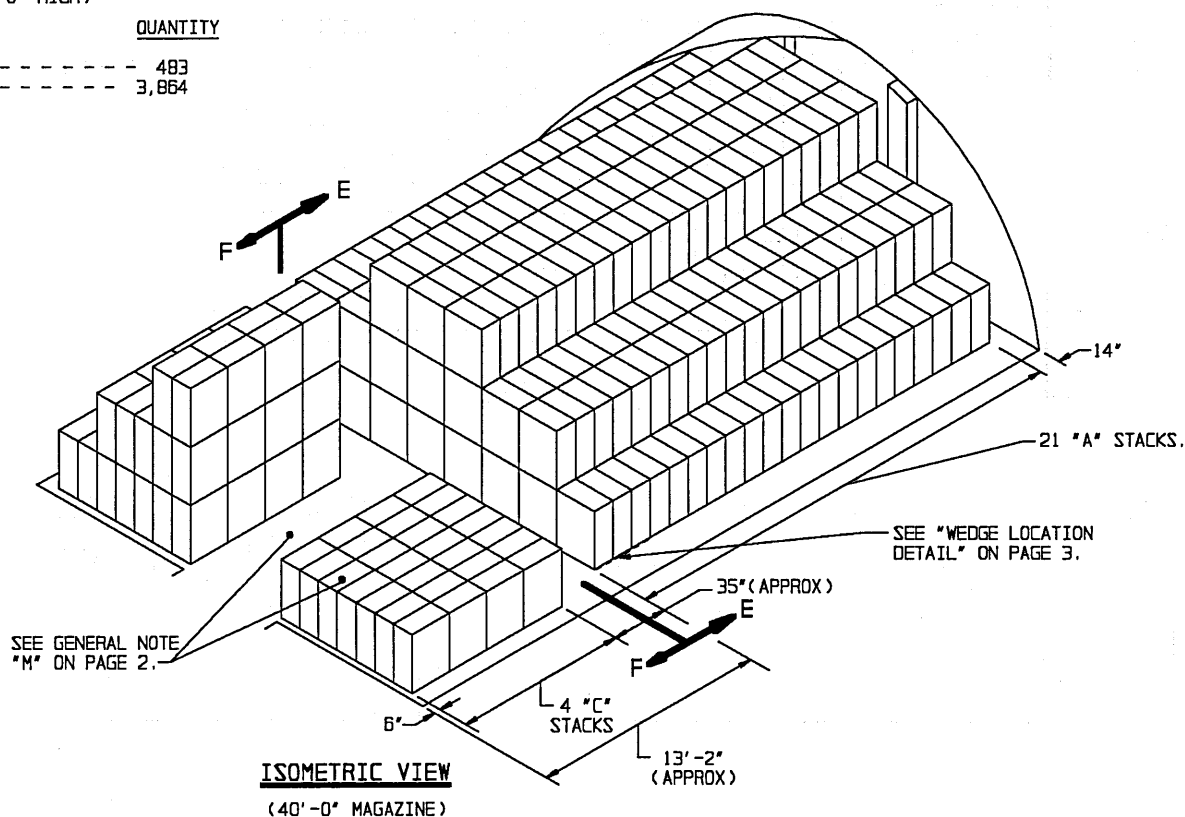




**STORAGE IN 40'-0" MAGAZINE**

(11'-0" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - - -	483
PROJECTILES - - - - -	3,864

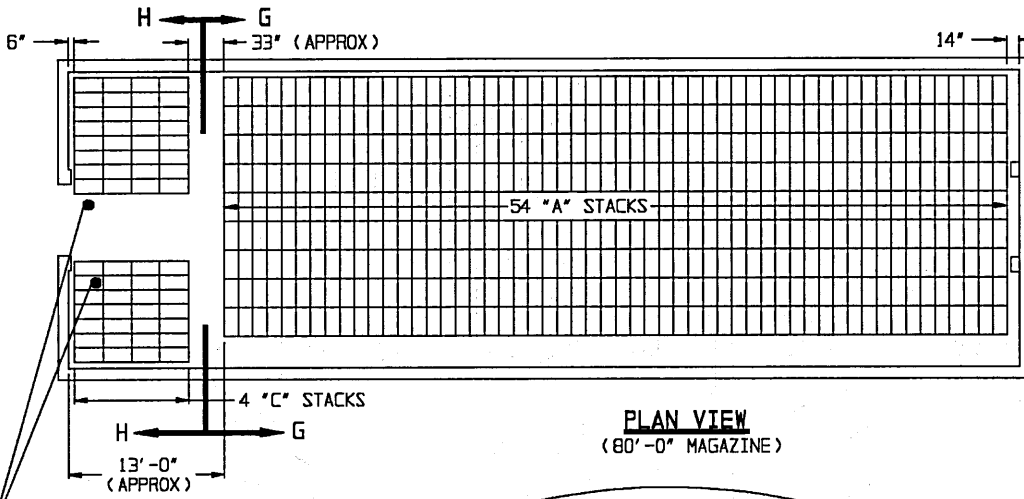


FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2. FOR "WEDGE DETAILS", SEE PAGE 3.

BILL OF MATERIAL (PER STACK)				
TYPE STACK	WEDGES		2" X 4" DUNNAGE LUMBER *	
	6'-0"	9'-0"	LINEAR FEET	BOARD FEET
A	2 REQD	2 REQD	23.33	15.55
C	2 REQD		16.00	10.67

\* SEE GENERAL NOTES "E" AND "F" ON PAGE 2.

**STORAGE IN 80'-0" MAGAZINE**



(12'-1-3/4" HIGH)

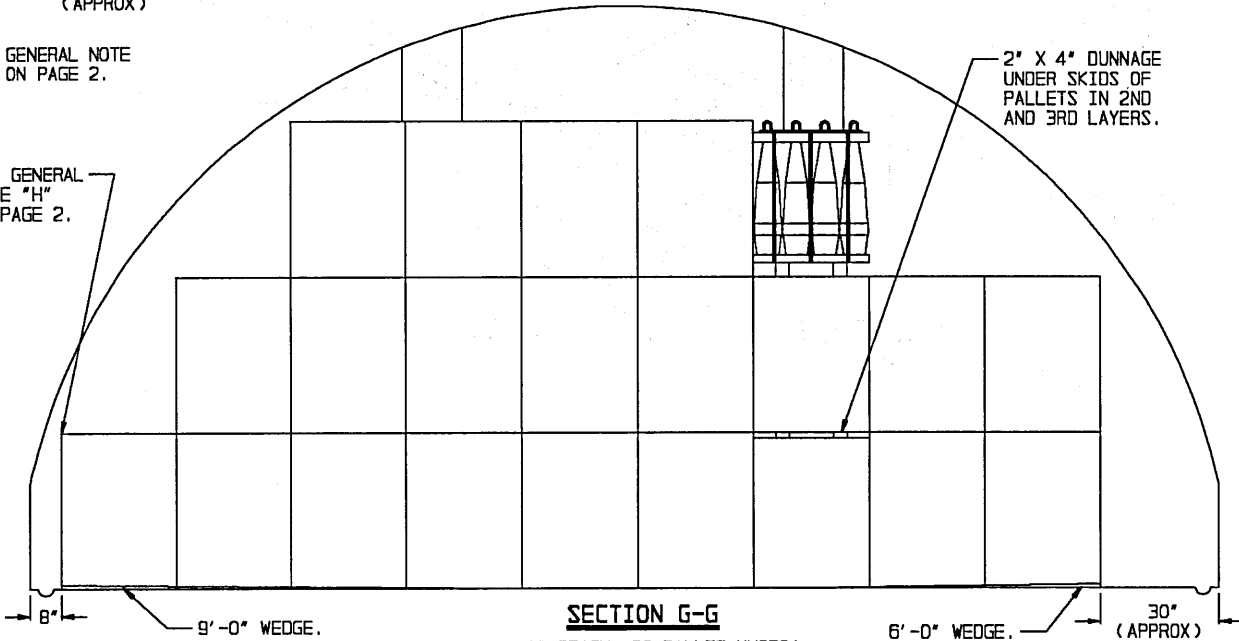
ITEM	QUANTITY
PALLET UNITS - - - -	1,288
PROJECTILES - - - -	10,304

**PLAN VIEW**  
(80'-0" MAGAZINE)

SEE GENERAL NOTE "M" ON PAGE 2.

SEE GENERAL NOTE "H" ON PAGE 2.

2" X 4" DUNNAGE UNDER SKIDS OF PALLETS IN 2ND AND 3RD LAYERS.

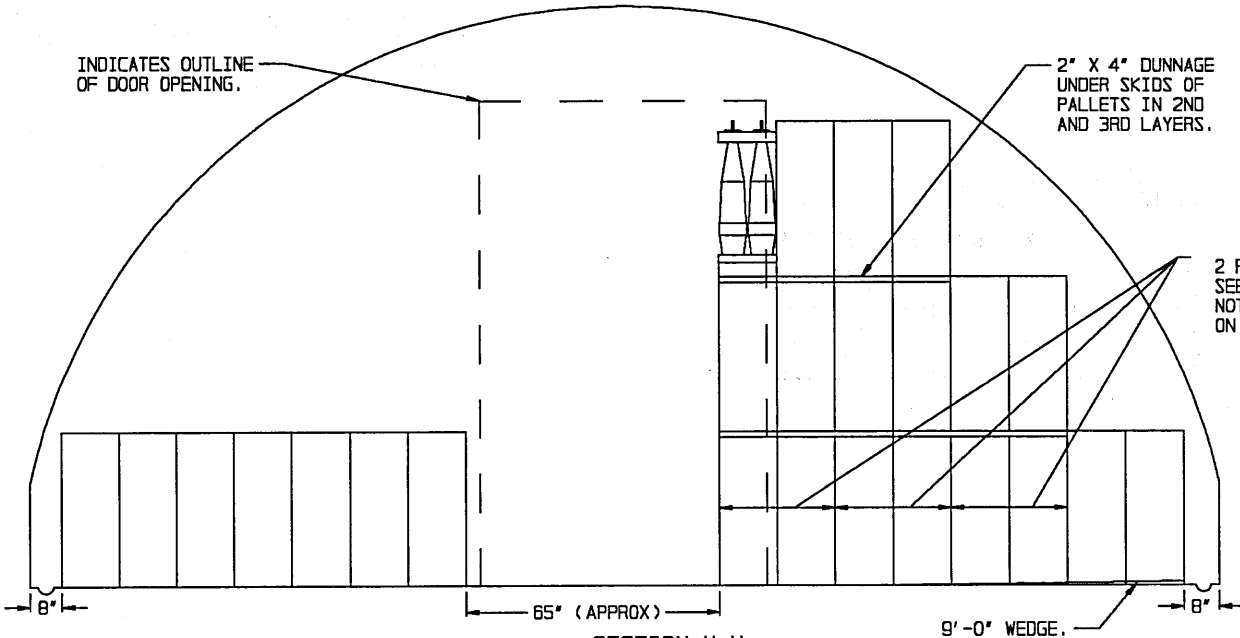


**SECTION G-G**  
(\*A" STACK, 22 PALLET UNITS)

INDICATES OUTLINE OF DOOR OPENING.

2" X 4" DUNNAGE UNDER SKIDS OF PALLETS IN 2ND AND 3RD LAYERS.

2 PALLET UNITS  
SEE GENERAL NOTE "G" ON PAGE 2.

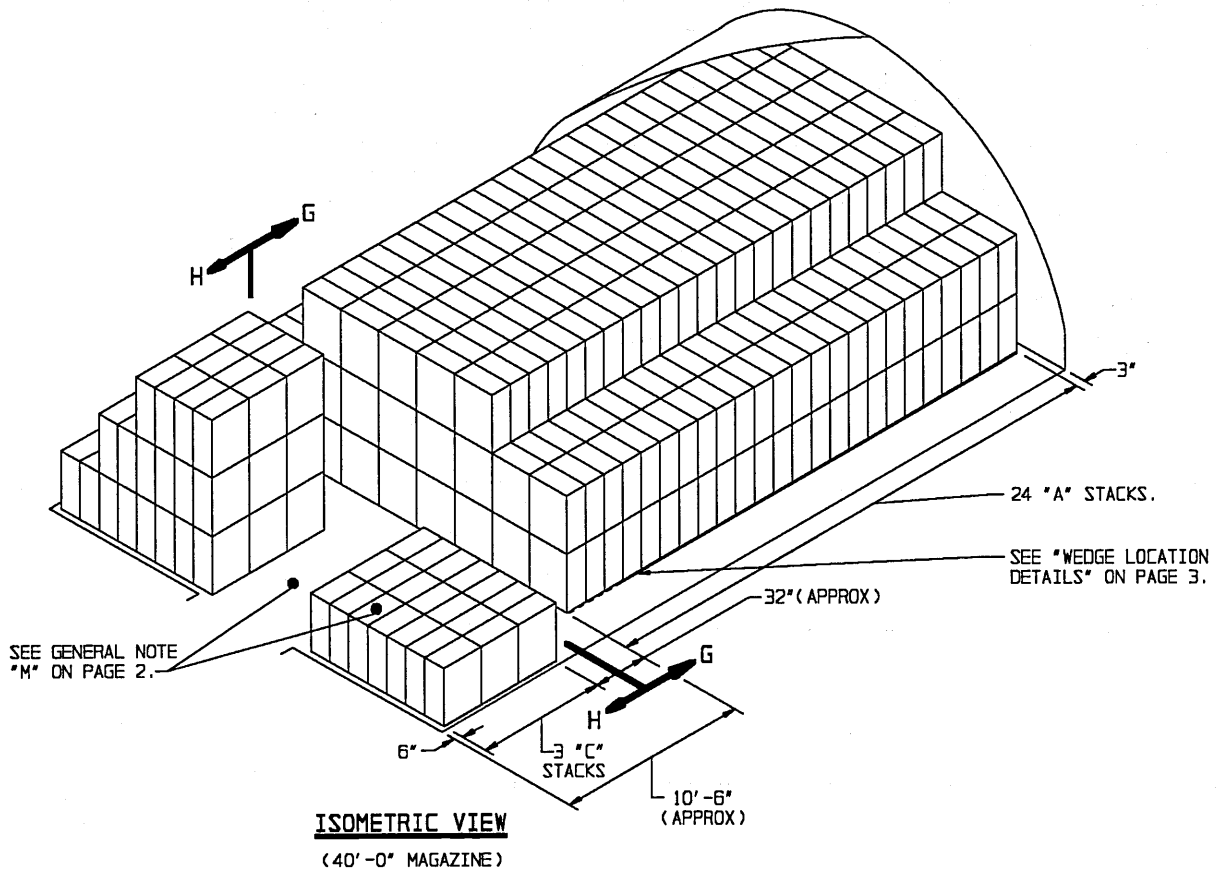


**SECTION H-H**  
(\*C" STACK, 25 PALLET UNITS)

**STORAGE IN 40'-0" MAGAZINE**

(12'-1-3/4" HIGH)

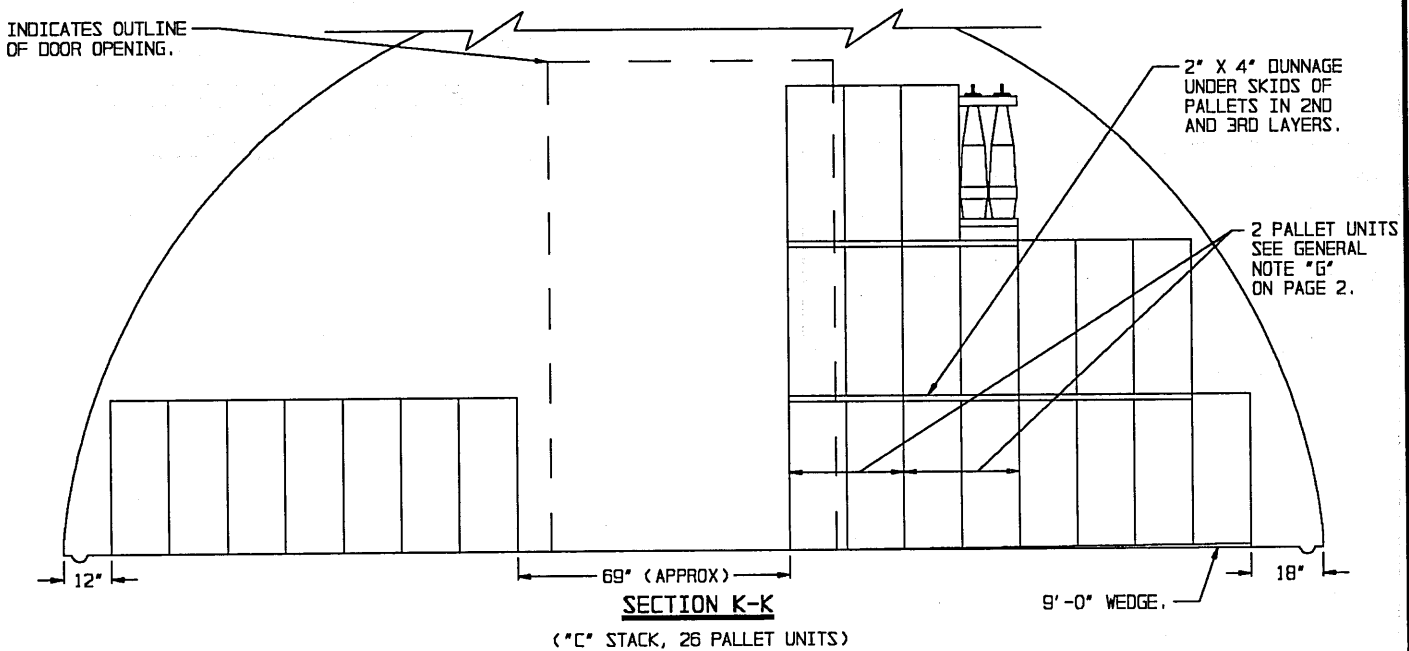
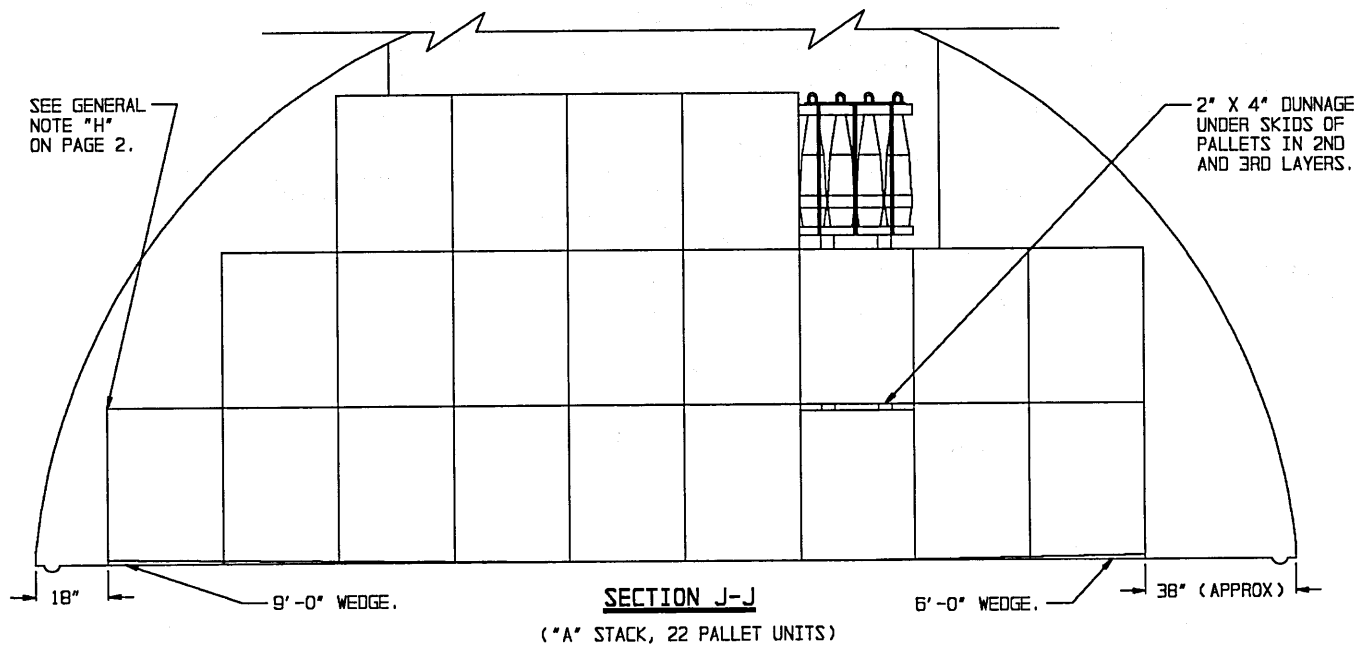
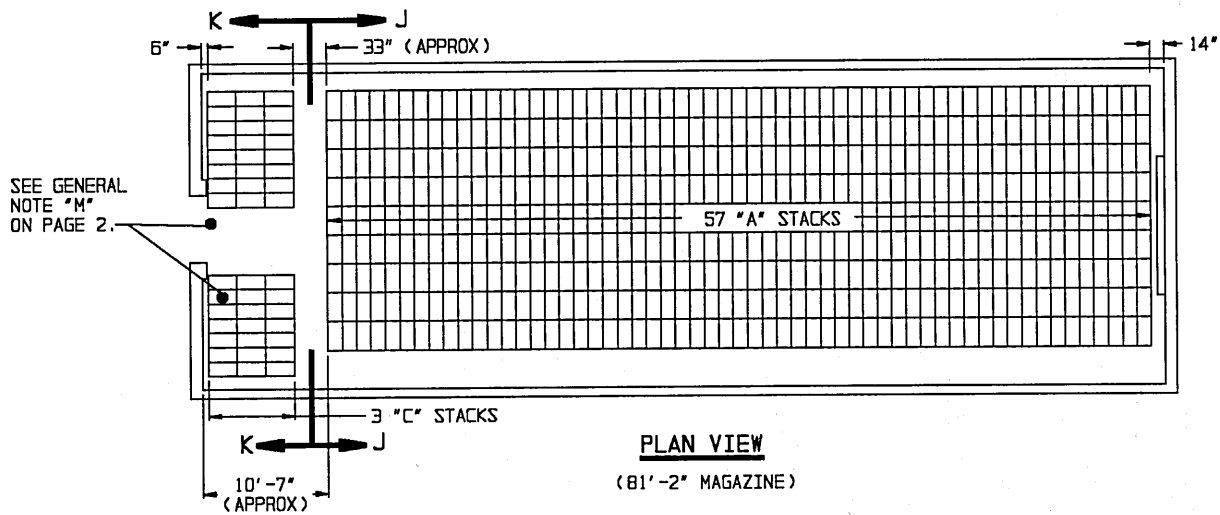
ITEM	QUANTITY
PALLET UNITS-----	603
PROJECTILES-----	4,824



FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2. FOR "WEDGE DETAILS", SEE PAGE 3.

BILL OF MATERIAL (PER STACK)				
TYPE STACK	WEDGES		2" X 4" DUNNAGE LUMBER *	
	6'-0"	9'-0"	LINEAR FEET	BOARD FEET
A	2 REOD	2 REOD	30.33	20.22
C		2 REOD	22.50	15.00

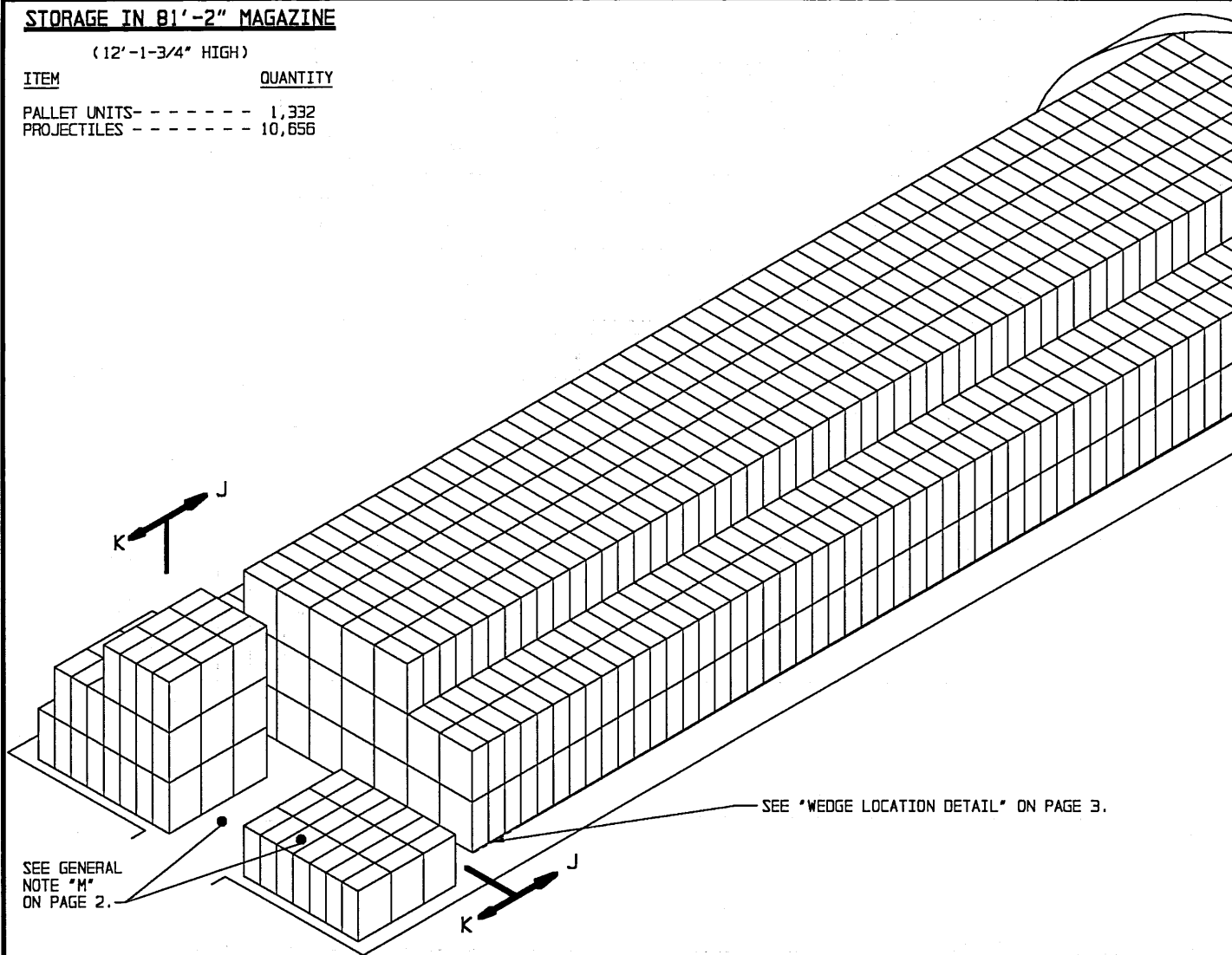
\* SEE GENERAL NOTES "E" AND "F" ON PAGE 2.



**STORAGE IN 81'-2" MAGAZINE**

(12'-1-3/4" HIGH)

ITEM	QUANTITY
PALLET UNITS-----	1,332
PROJECTILES-----	10,656



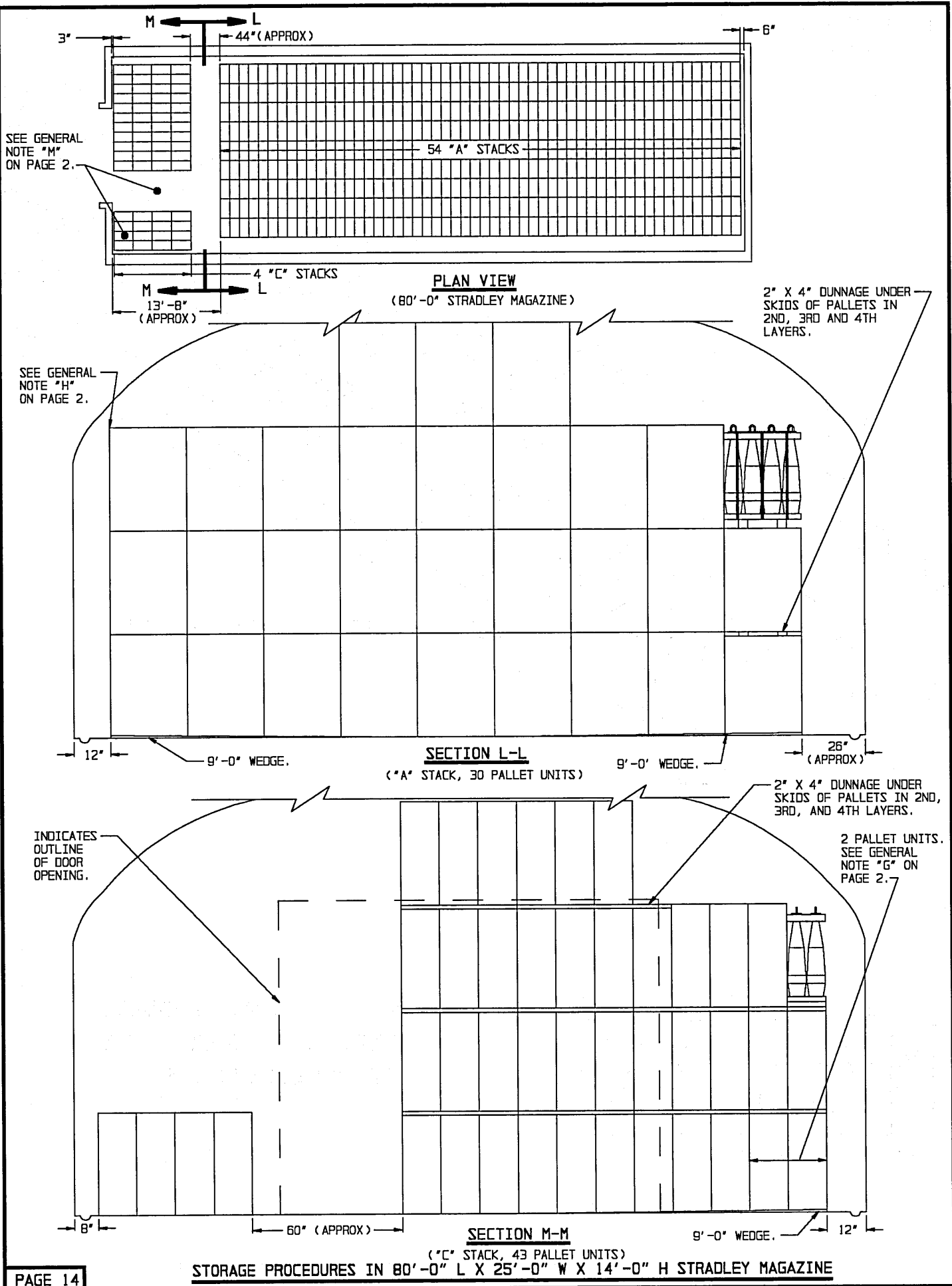
**ISOMETRIC VIEW**

(81'-2" MAGAZINE)

BILL OF MATERIAL (PER STACK)				
TYPE STACK	WEDGES		2" X 4" DUNNAGE LUMBER *	
	6'-0"	9'-0"	LINEAR FEET	BOARD FEET
A	2 REOD	2 REOD	30.33	20.22
C		2 REOD	25.00	16.67

\* SEE GENERAL NOTES "E" AND "F" ON PAGE 2.

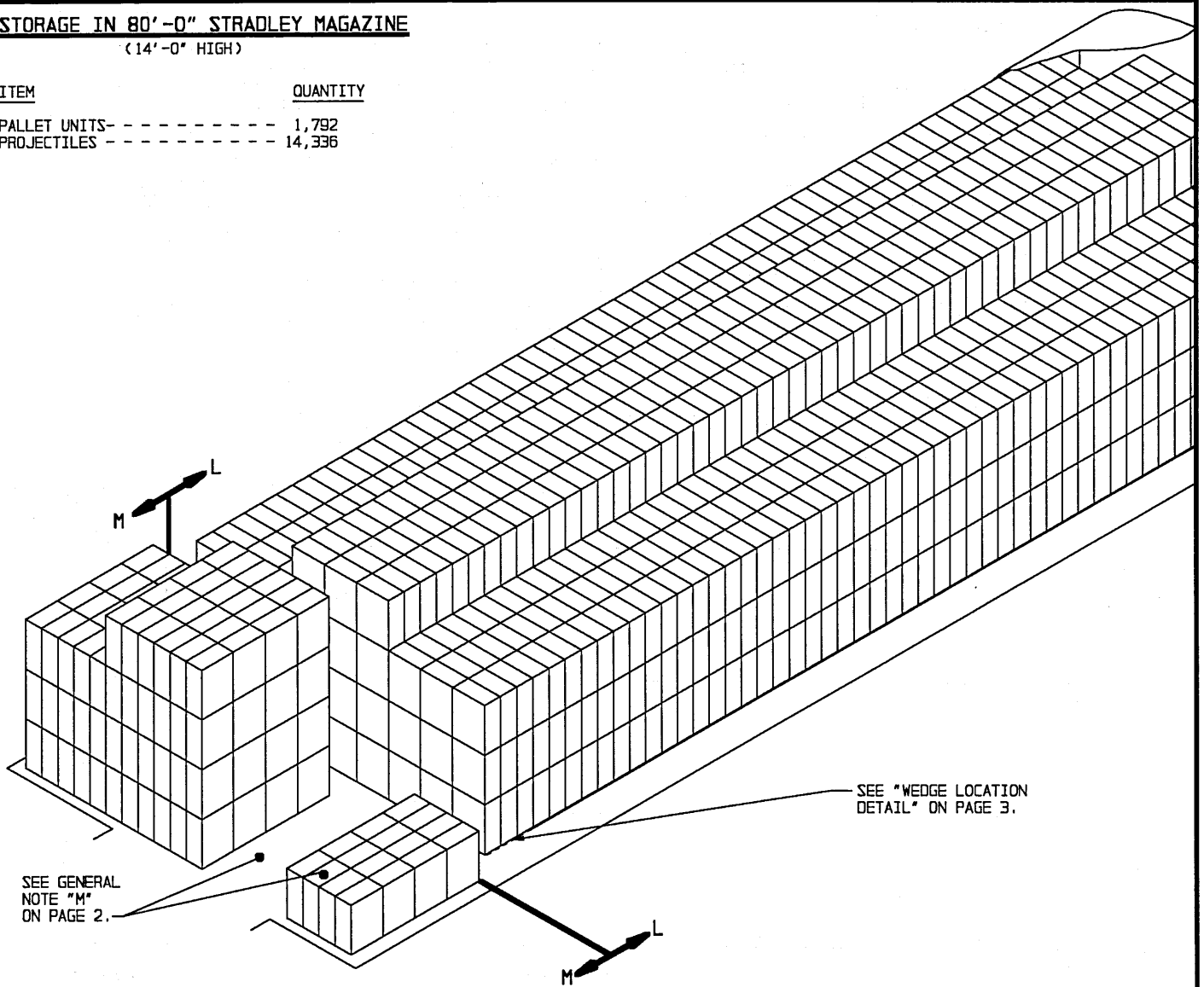
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2. FOR "WEDGE DETAILS" SEE PAGE 3.



**STORAGE IN 80'-0" STRADLEY MAGAZINE**

(14'-0" HIGH)

ITEM	QUANTITY
PALLET UNITS-----	1,792
PROJECTILES-----	14,336

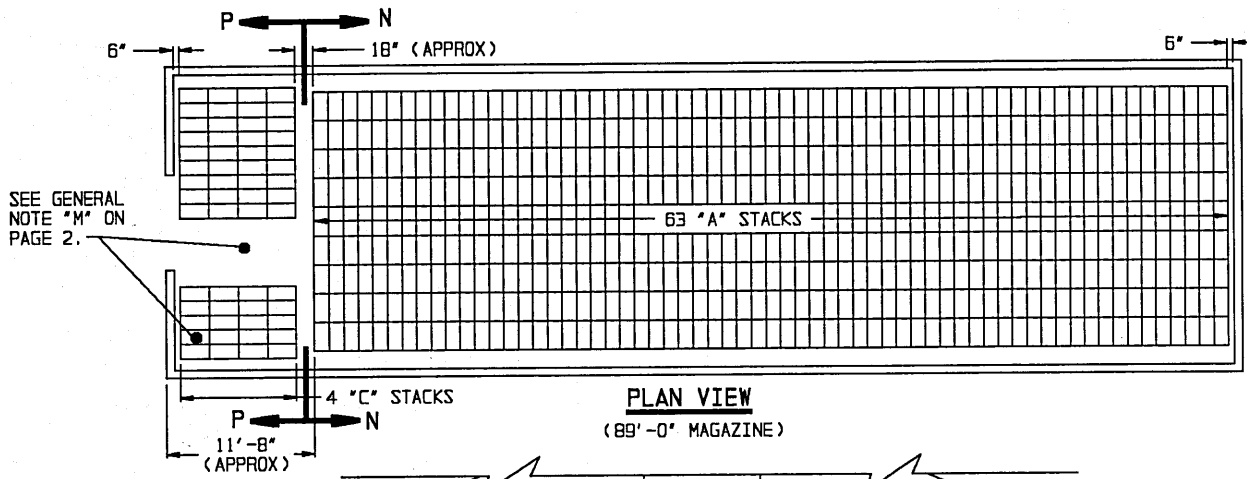


**ISOMETRIC VIEW**  
(80'-0" STRADLEY MAGAZINE)

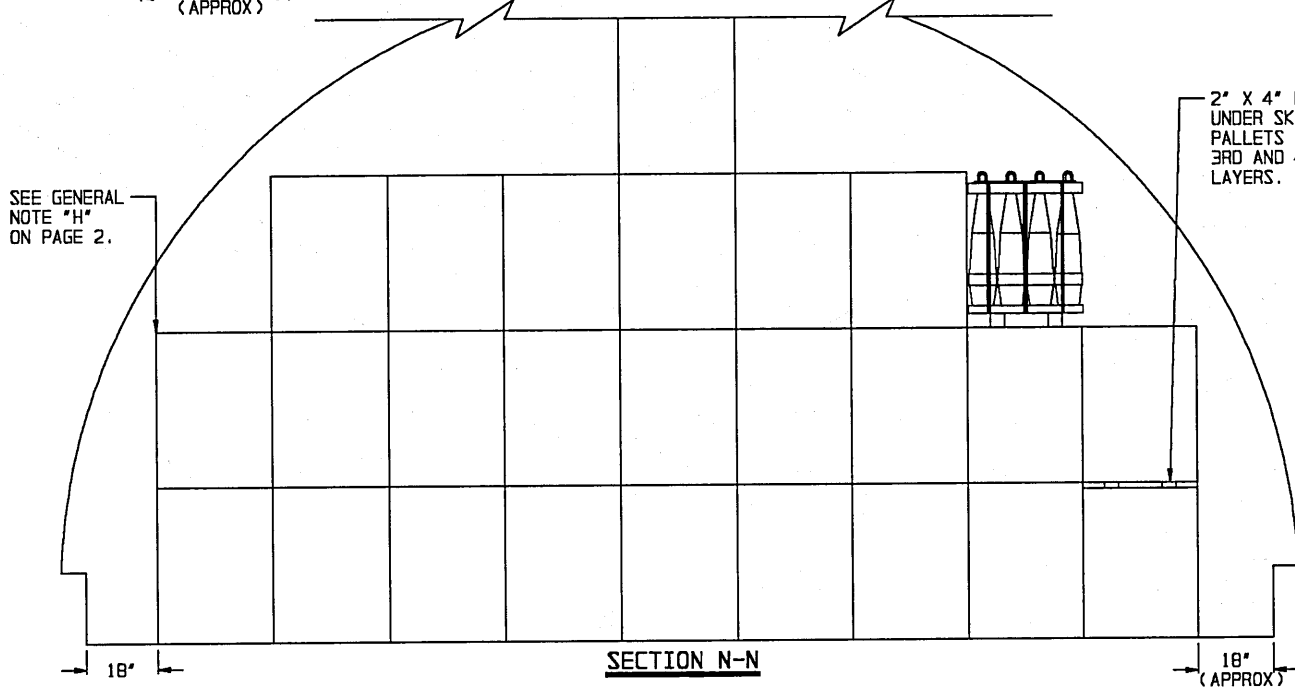
BILL OF MATERIAL (PER STACK)			
TYPE STACK	WEDGES	2" X 4" DUNNAGE LUMBER *	
		9'-0" LINEAR FEET	BOARD FEET
A	4 REOD	49.00	32.67
C	2 REOD	65.00	43.33

\* SEE GENERAL NOTES "E" AND "F" ON PAGE 2.

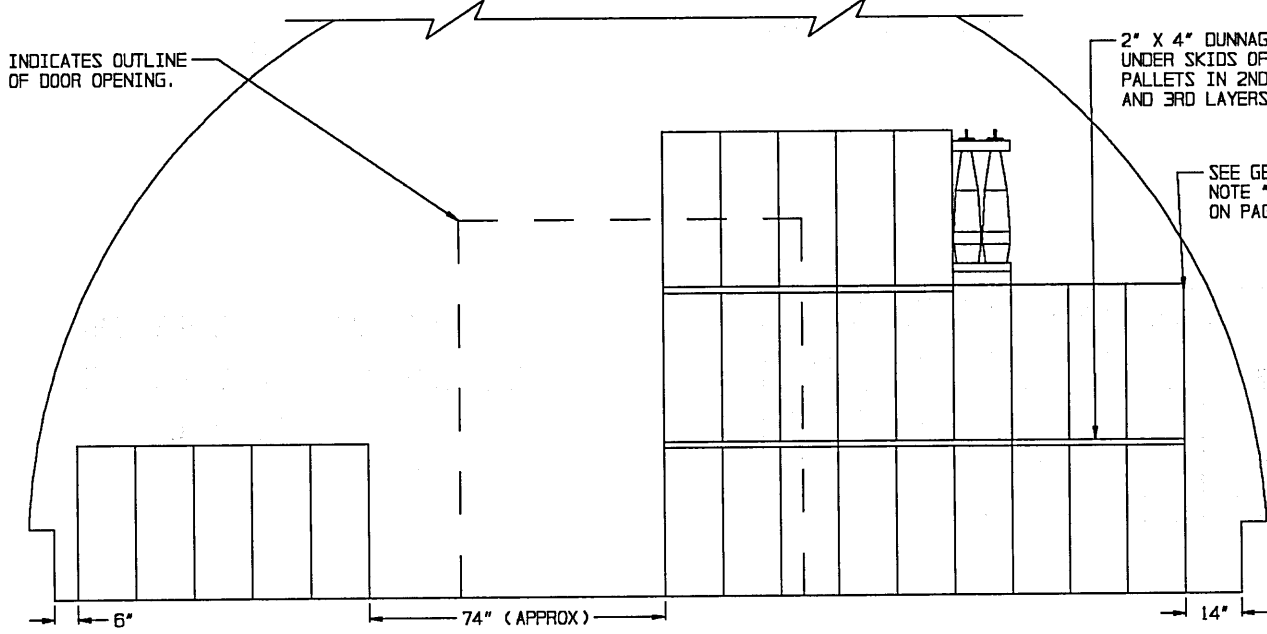
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2. FOR "WEDGE DETAILS" SEE PAGE 3.



**PLAN VIEW**  
(89'-0" MAGAZINE)



**SECTION N-N**  
("A" STACK, 26 PALLET UNITS)



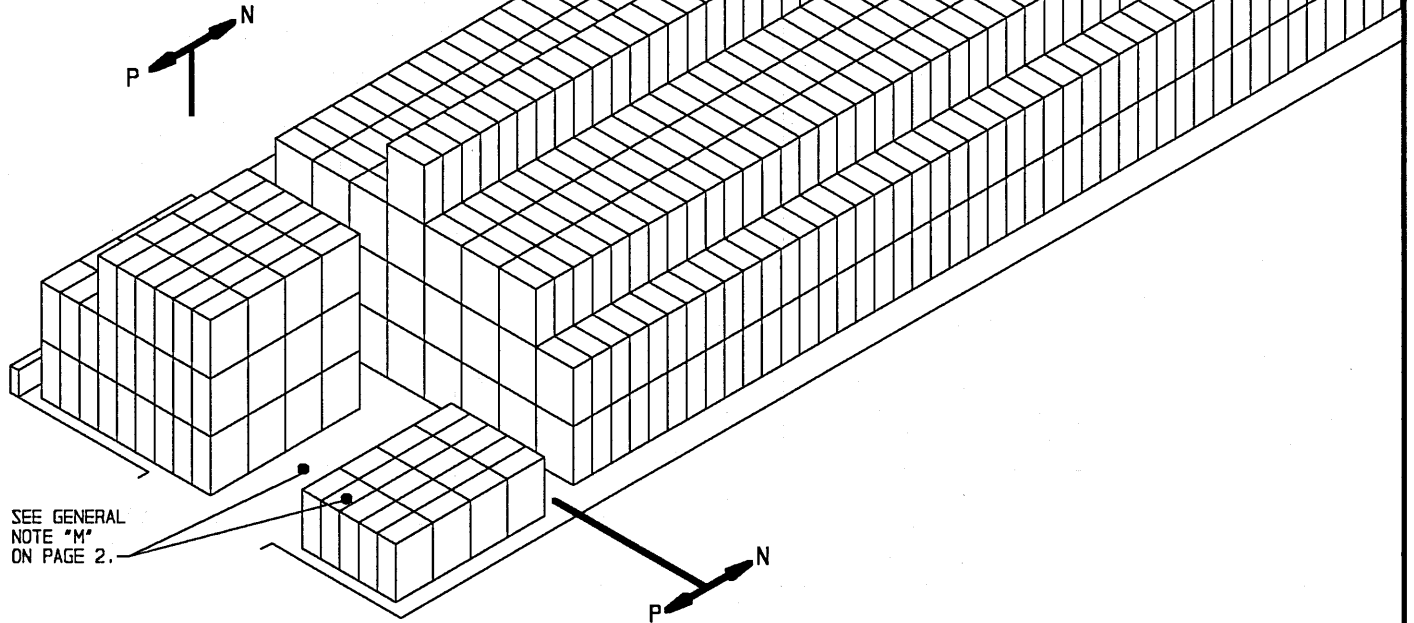
**SECTION P-P**  
("C" STACK, 29 PALLET UNITS)

**STORAGE PROCEDURES IN 89'-0" L X 24'-11" W X 13'-6" H STEEL ARCH MAGAZINE**



**STORAGE IN 89'-0" MAGAZINE**  
(13'-6" HIGH)

ITEM	QUANTITY
PALLET UNITS-----	1,754
PROJECTILES-----	14,032



**ISOMETRIC VIEW**  
(89'-0" MAGAZINE)

FOR "GENERAL NOTES", AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

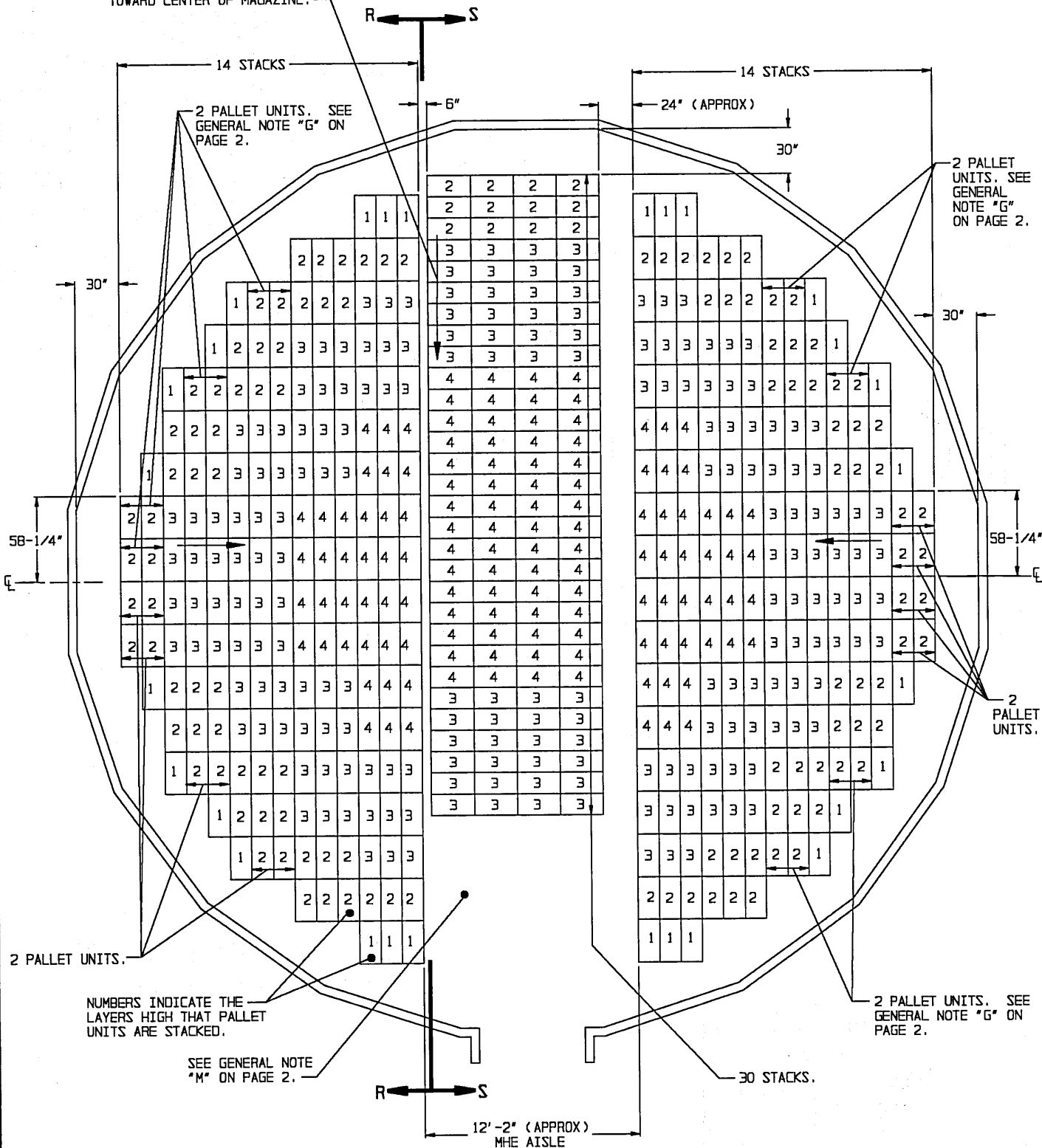
BILL OF MATERIAL (PER STACK)		
TYPE STACK	2" X 4" DUNNAGE LUMBER *	
	LINEAR FEET	BOARD FEET
A	39.67	26.58
C	35.00	23.45

\* SEE GENERAL NOTES \*E\* AND \*F\* ON PAGE 2.

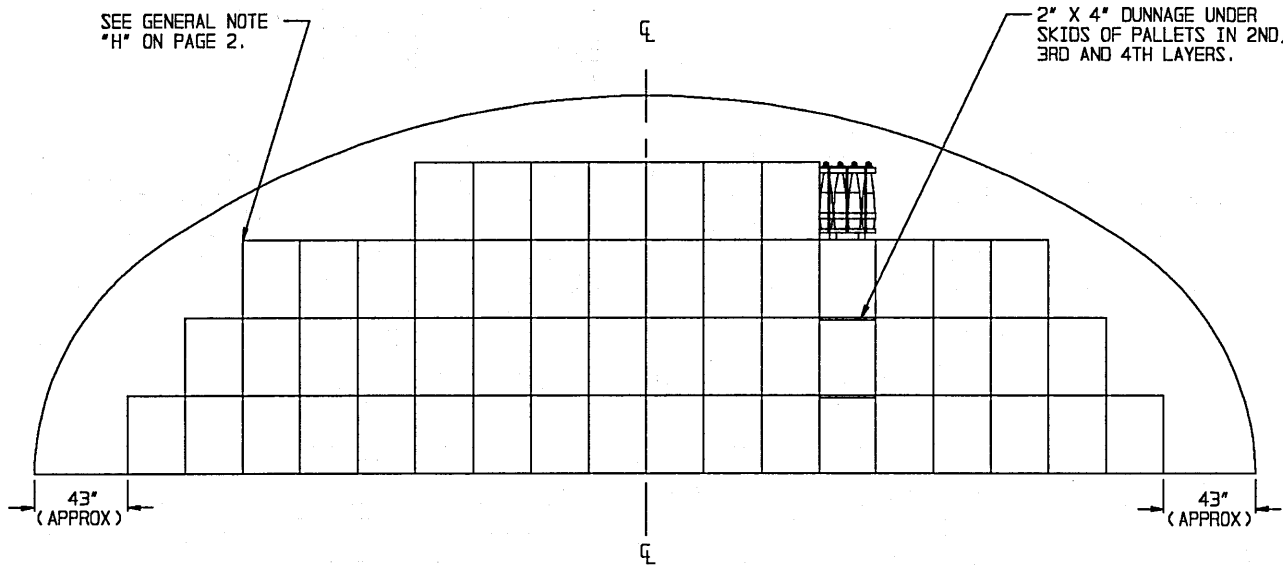
**STORAGE IN 52'-0" DIA MAGAZINE**

ITEM	QUANTITY
PALLET UNITS - - - - -	1,424
PROJECTILES - - - - -	11,392

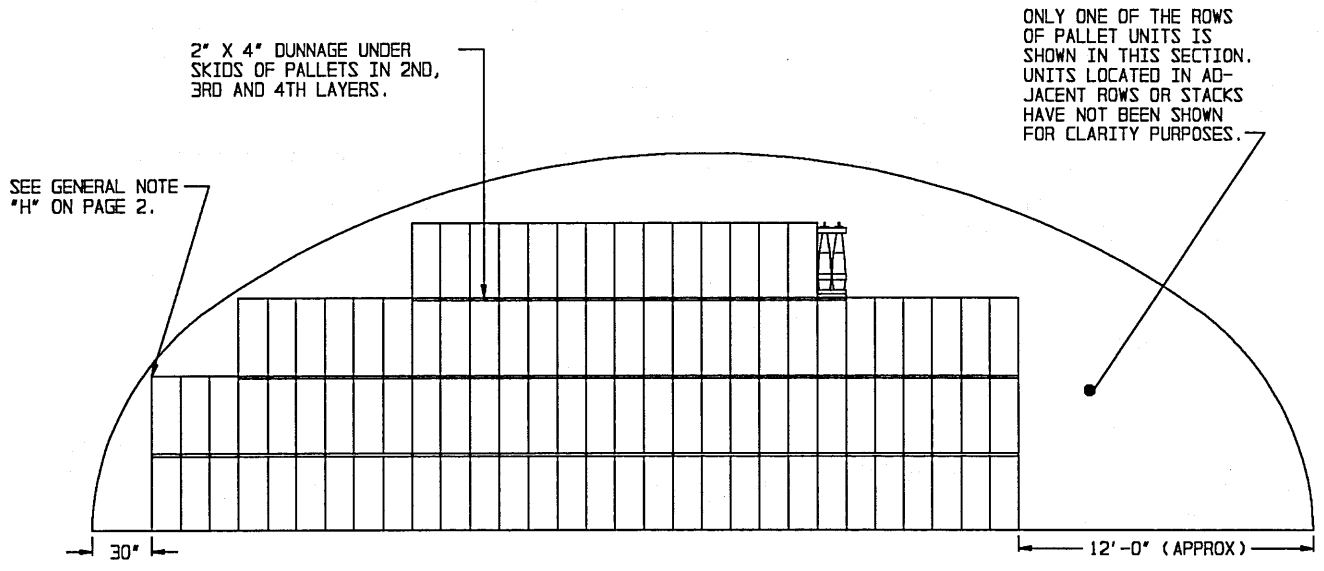
ARROWS INDICATE DIRECTION OF STORAGE FROM WALLS TOWARD CENTER OF MAGAZINE.



**PLAN VIEW**



**SECTION R-R**

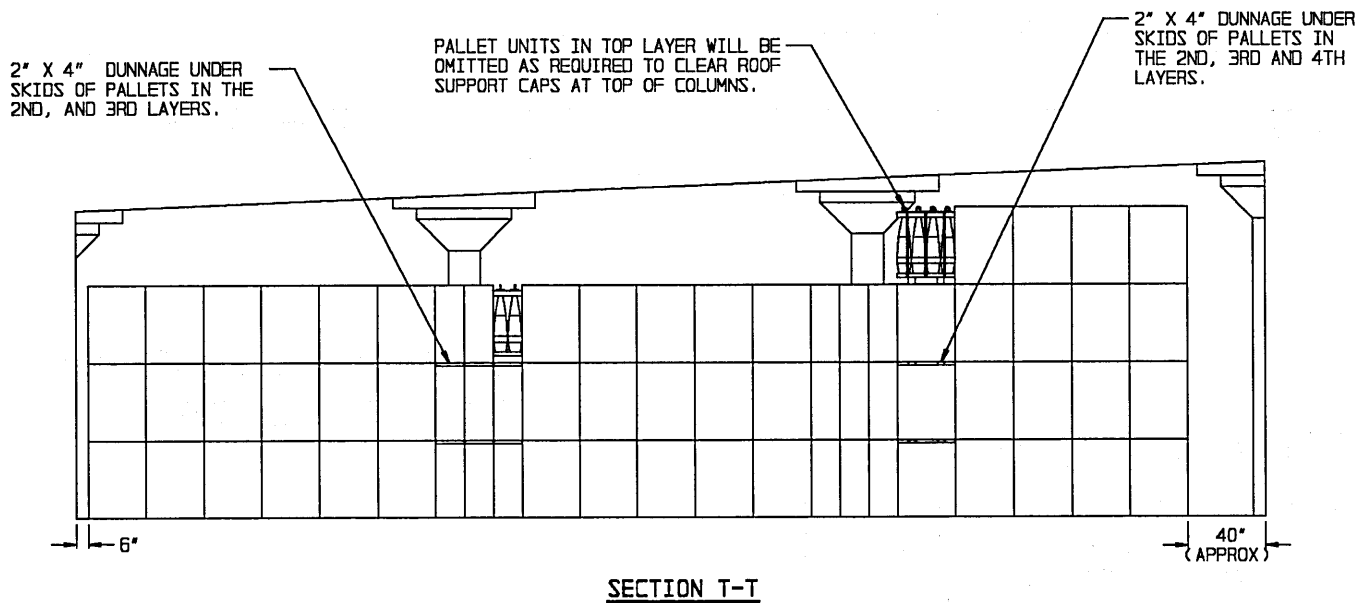
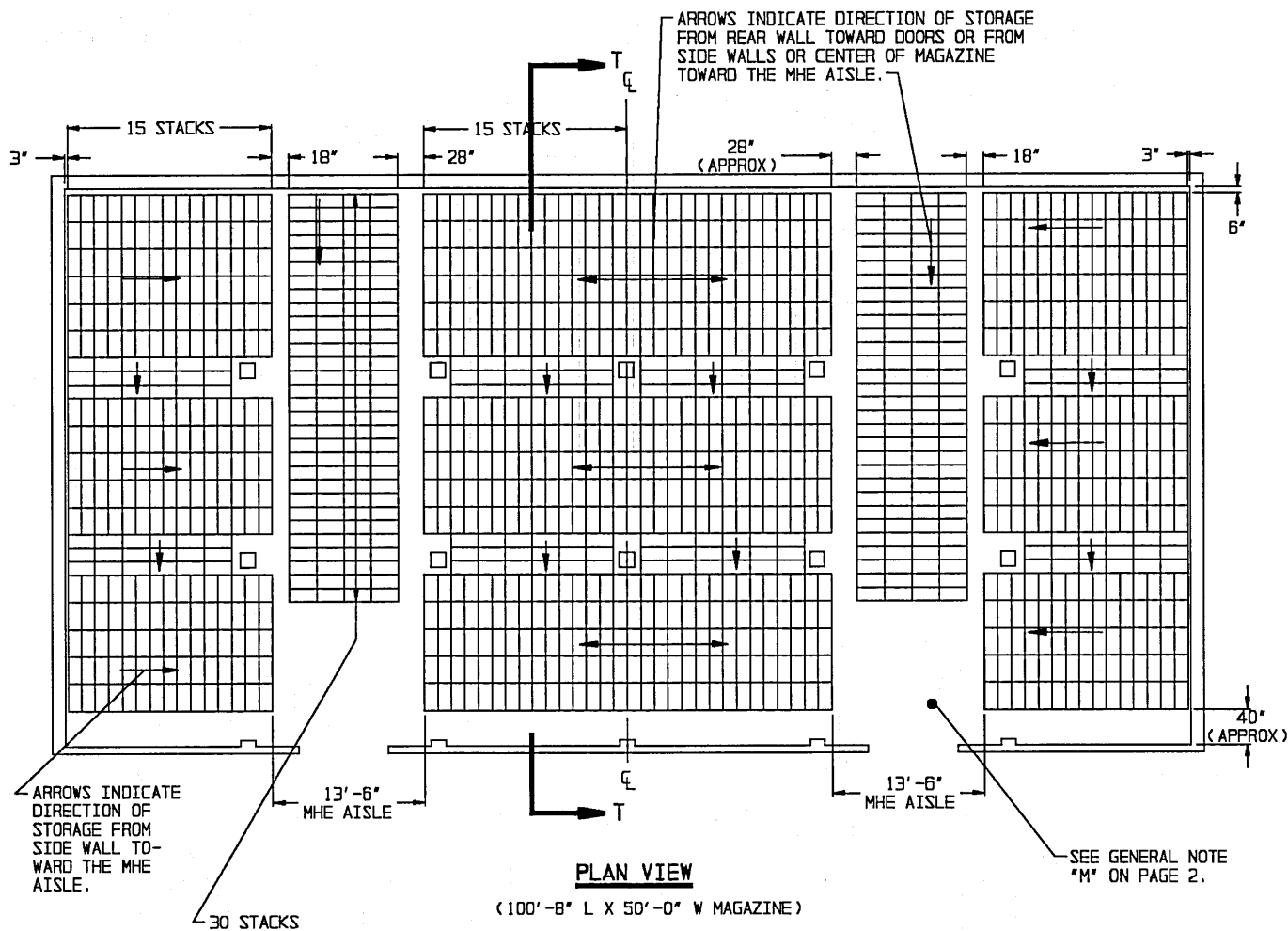


**SECTION S-S**

FOR "GENERAL NOTES", AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

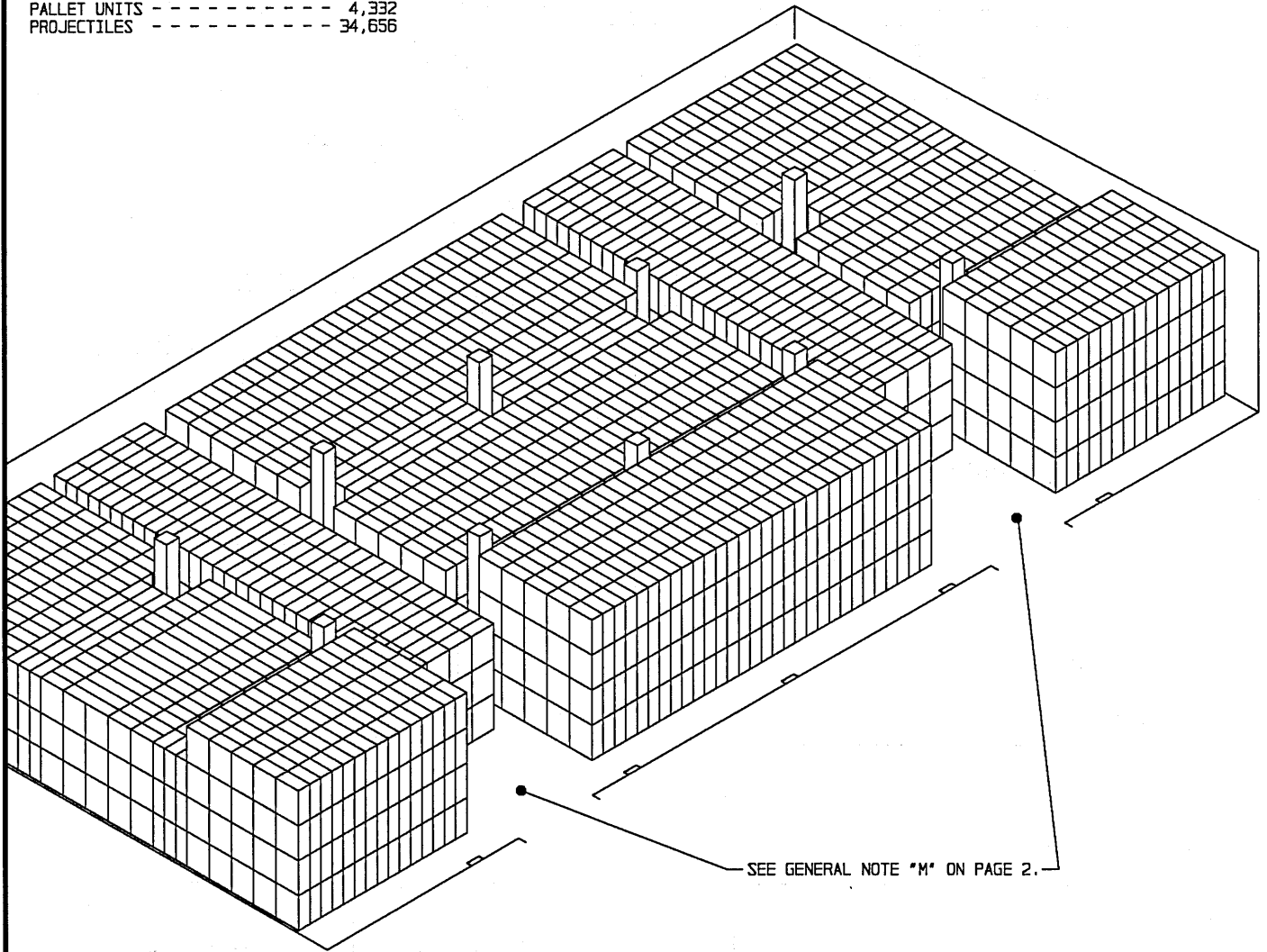
BILL OF MATERIAL (PER PALLET STACK)		
STACK HEIGHT	2" X 4" DUNNAGE LUMBER *	
	LINEAR FEET	BOARD FEET
2	2.33	1.55
3	4.66	3.11
4	7.00	4.67

\* SEE GENERAL NOTES "E" AND "F" ON PAGE 2.



**STORAGE IN 100'-8" X 50'-0" MAGAZINE**

ITEM	QUANTITY
PALLET UNITS - - - - -	4,332
PROJECTILES - - - - -	34,656

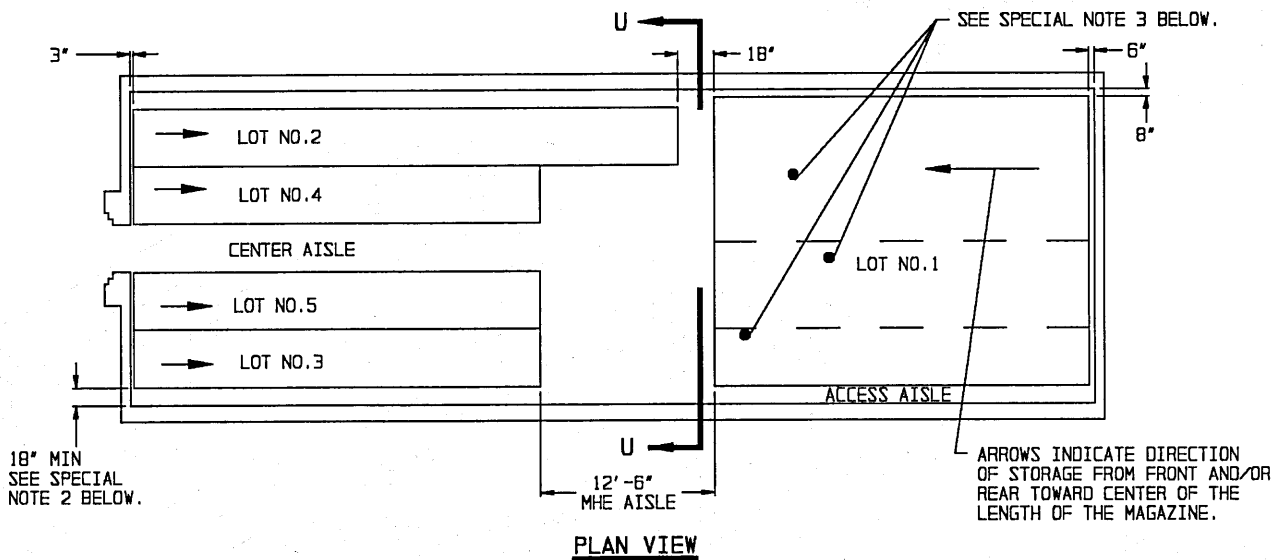


**ISOMETRIC VIEW**  
(100'-8" L X 50'-0" W MAGAZINE)

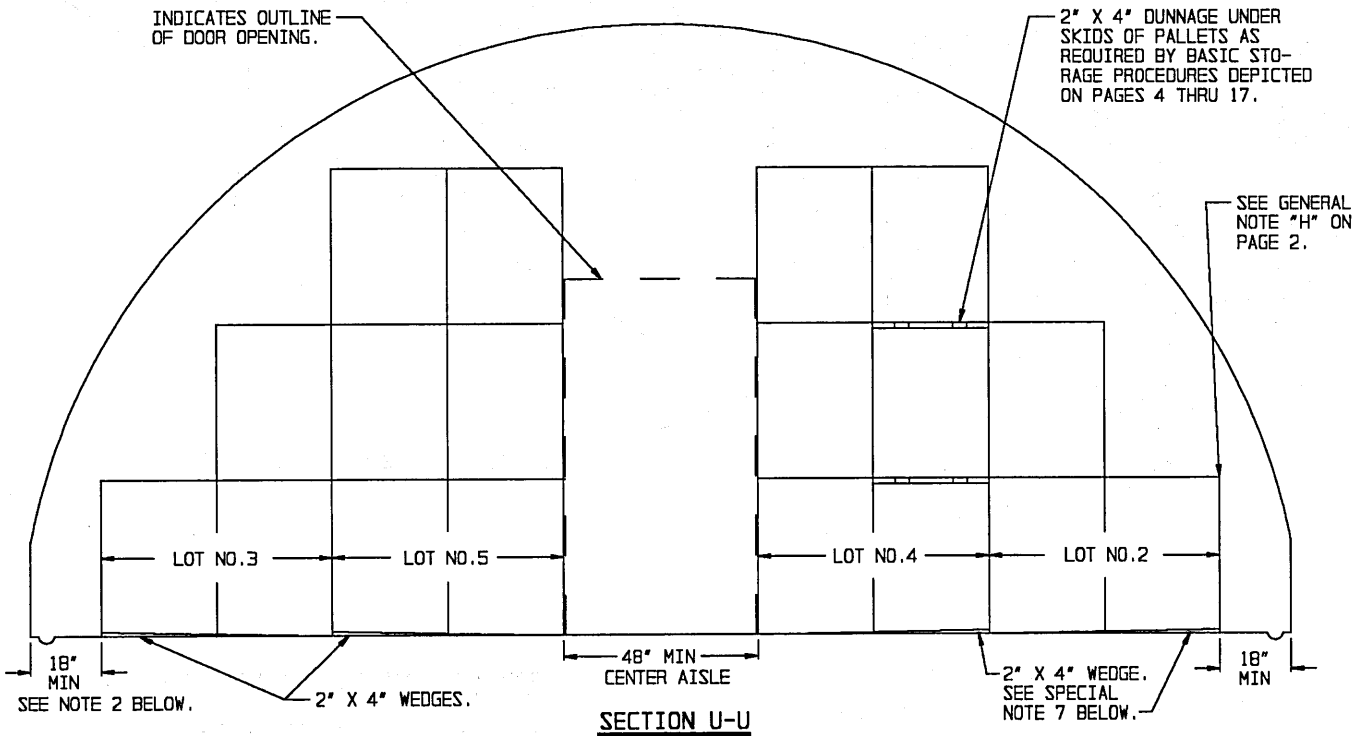
**FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.**

BILL OF MATERIAL (PER PALLET STACK)		
STACK HEIGHT	2" X 4" DUNNAGE LUMBER *	
	LINEAR FEET	BOARD FEET
3	4.66	3.11
4	7.00	4.67

\* SEE GENERAL NOTES "E" AND "F" ON PAGE 2.



**PLAN VIEW**



**SECTION U-U**

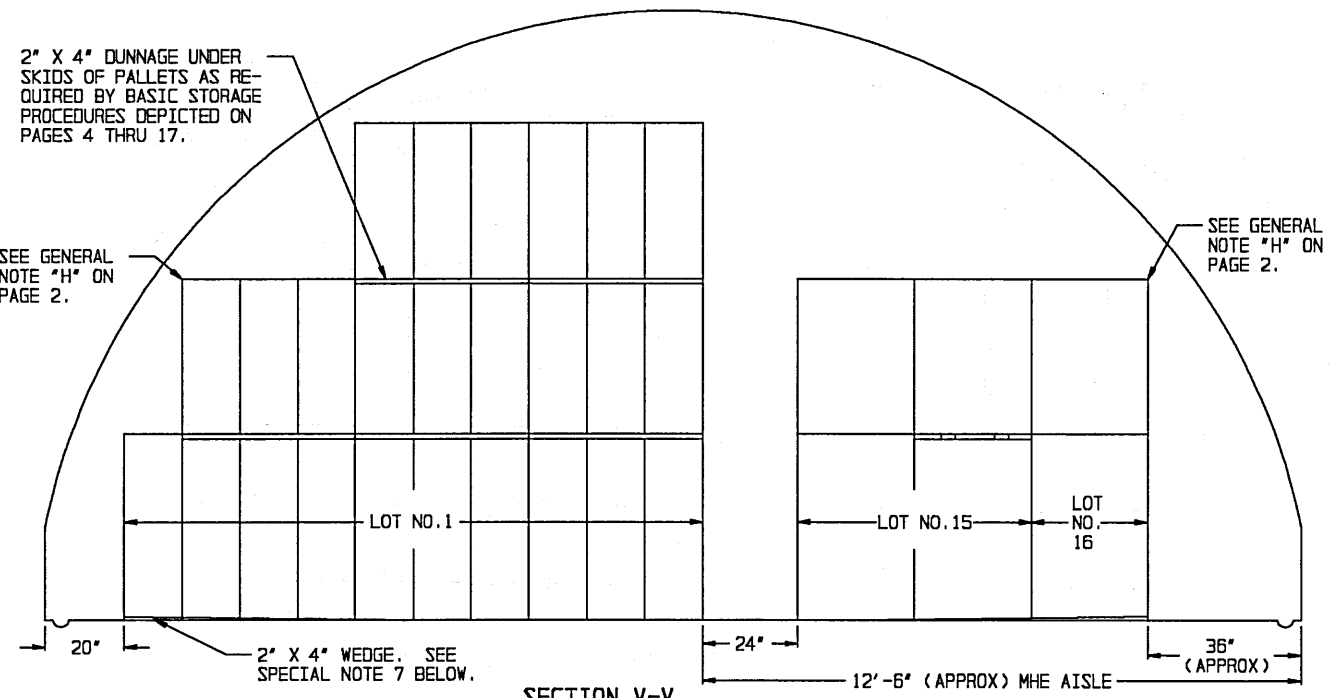
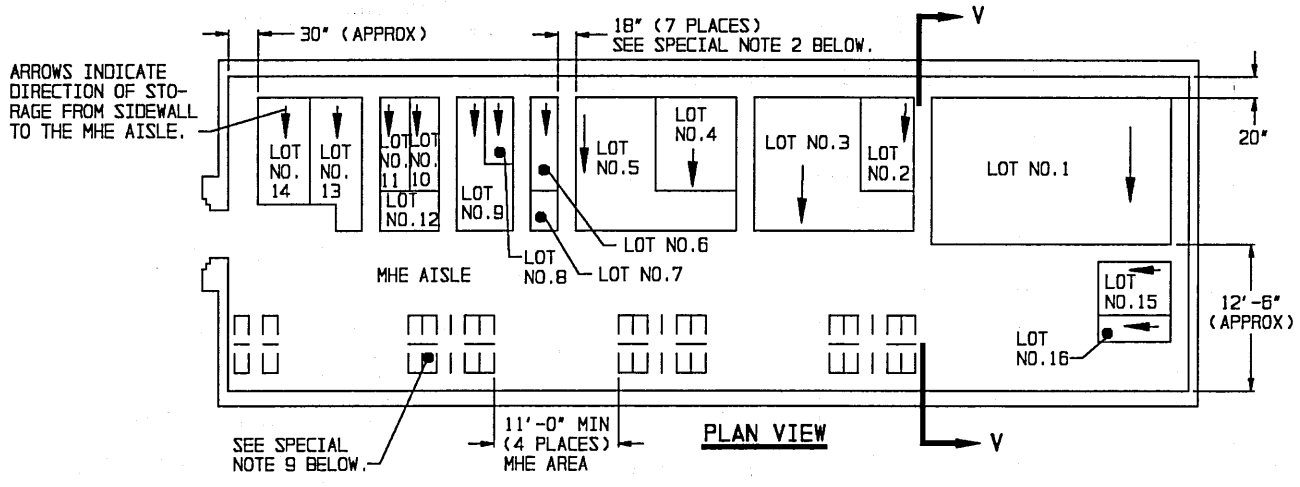
**SPECIAL NOTES:**

1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY AND APPLY TO RELATIVELY LARGE LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AN INSPECTION/INVENTORY AISLE MUST BE PROVIDED AT ONE SIDE OR END OF EACH LOT.
3. GENERALLY, THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE MAGAZINE. HOWEVER, THE REAR AREA MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING ROWS SIMILAR TO THOSE SHOWN IN THE FRONTAL AREA. A CENTER AISLE WILL NOT BE REQUIRED IN THE REAR AREA AS LONG AS EACH LOT IS ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.
4. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. A SINGLE-LOT OF PALLET UNITS IS CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS

(SPECIAL NOTES CONTINUED AT RIGHT).

**(SPECIAL NOTES CONTINUED)**

5. HAVE TO BE MADE TO GAIN ACCESS TO THAT LOT. THE TERM "LIFT" MEANS HANDLING AND MOVING NOT MORE THAN THREE (3) PALLET UNITS OF PROJECTILES AT ONE TIME.
6. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDE-WALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
7. EACH LOT MUST BE STORED TWO (2) UNITS (MINIMUM) WIDE TO ACCOMMODATE WIDTH OF MHE DURING OPERATIONS, EXCEPT FOR A ROW ADJACENT TO A CENTER AISLE.
8. LENGTH OF 2" X 4" WEDGES WILL BE DETERMINED BY THE WIDTH OF THE LOT IN ROWS. WEDGES WILL NOT EXTEND INTO THE AISLES OR UNDER ADJACENT LOTS.
9. 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.

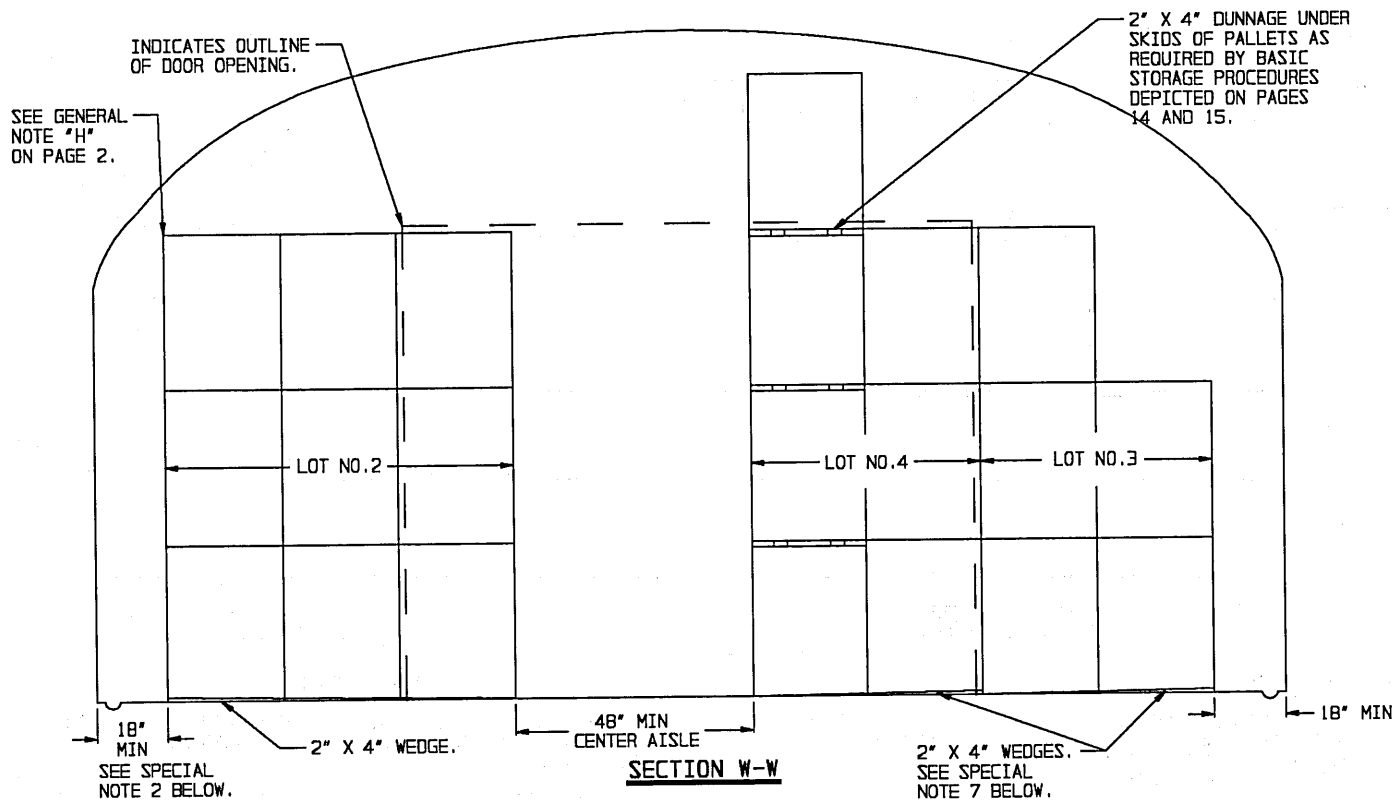
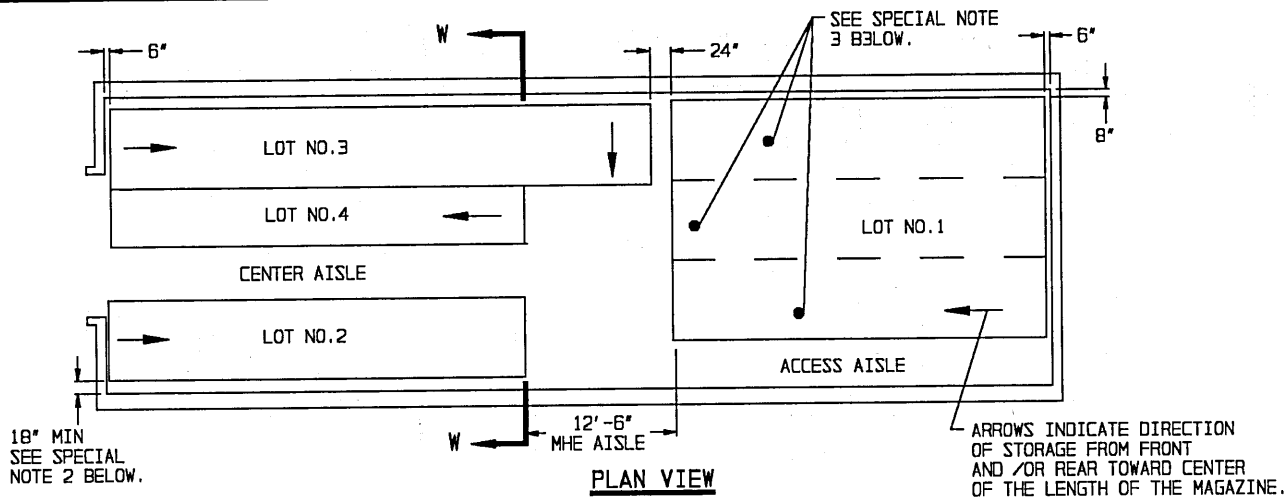


**SPECIAL NOTES:**

1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY AND APPLY TO STORAGE OF NUMEROUS SMALL LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
  2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 18" WIDE MUST BE PROVIDED AT ONE SIDE OF EACH "BURIED" LOT.
  3. GENERALLY, THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE MAGAZINE. HOWEVER, THE REAR AREA MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING STACKS SIMILAR TO THOSE SHOWN IN THE FRONTAL AREA. AN MHE AISLE WILL BE REQUIRED ON ONE SIDE OF THE MAGAZINE, AND EACH LOT MUST BE ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.
  4. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. A SINGLE-LOT OF PALLET UNITS IS CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THAT LOT. THE TERM "LIFT" MEANS HANDLING AND MOVING NOT MORE THAN THREE (3) PALLET UNITS OF PROJECTILES AT ONE TIME.
  5. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDEWALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
  6. EACH LOT MUST BE STORED TWO (2) UNITS (MINIMUM) WIDE TO ACCOMMODATE WIDTH OF MHE DURING OPERATIONS, EXCEPT FOR A ROW ADJACENT TO AN INSPECTION/INVENTORY AISLE.
- (SPECIAL NOTES CONTINUED AT RIGHT).

**(SPECIAL NOTES CONTINUED)**

7. LENGTH OF 2" X 4" WEDGES WILL BE DETERMINED BY THE WIDTH OF THE LOT IN ROWS. WEDGES WILL NOT EXTEND INTO THE AISLES OR UNDER ADJACENT LOTS.
8. 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.
9. AREAS INCLOSED BY DOTTED LINES INDICATE LOCATIONS WHERE ADDITIONAL LOTS OR ITEMS MAY BE STORED, THAT ARE FROM THE LOT OR LOTS WHICH ARE DIRECTLY OR ALMOST DIRECTLY ACROSS THE CENTER AISLE ON THE OTHER SIDE OF THE MAGAZINE. COMPLIANCE WITH ALL OF THE MULTIPLE-LOT CRITERIA AS SET FORTH ON THIS PAGE MUST BE OBSERVED. THE SIZE OF THE LOTS BEING STORED AND THE CRITERIA OF SPECIAL NOTE 4, RELATIVE TO "12 LIFTS", WILL BE MAJOR FACTORS IMPACTING ON THE NUMBER OF UNIT LOADS THAT CAN BE STORED IN AN "ADDITIONAL STORAGE LOCATION". MORE OR FEWER STACKS THAN SHOWN MAY BE STORED AT ANY ONE OF THE ADDITIONAL STORAGE LOCATIONS. AN 11-FOOT MHE OPERATING AREA HAS BEEN SPECIFIED FOR ACCESS TO EACH "ADDITIONAL LOCATION" BY FORKLIFT TRUCK. THIS OPERATING AREA IS BASED ON REQUIREMENTS OF FORKLIFT TRUCKS COMMONLY USED IN STORAGE MAGAZINES. THE MHE OPERATING AREA CAN BE ENLARGED AS REQUIRED TO SUIT AVAILABLE FORKLIFT TRUCKS AND SHOULD BE MADE SMALLER IF AVAILABLE MHE PERMITS. A "CENTER AISLE" (SPACE BETWEEN STORAGE ON ONE SIDE OF A MAGAZINE AND AN "ADDITIONAL STORAGE LOCATION") IS TO BE AT LEAST 48 INCHES WIDE. AN AISLE SLIGHTLY WIDER THAN 48 INCHES WILL ENHANCE FORKLIFT TRUCK MOVEMENT WITHIN A MAGAZINE; HOWEVER, THIS AISLE SHOULD NOT BE MADE WIDER IF A LOSS IN STORAGE RESULTS.



**SPECIAL NOTES:**

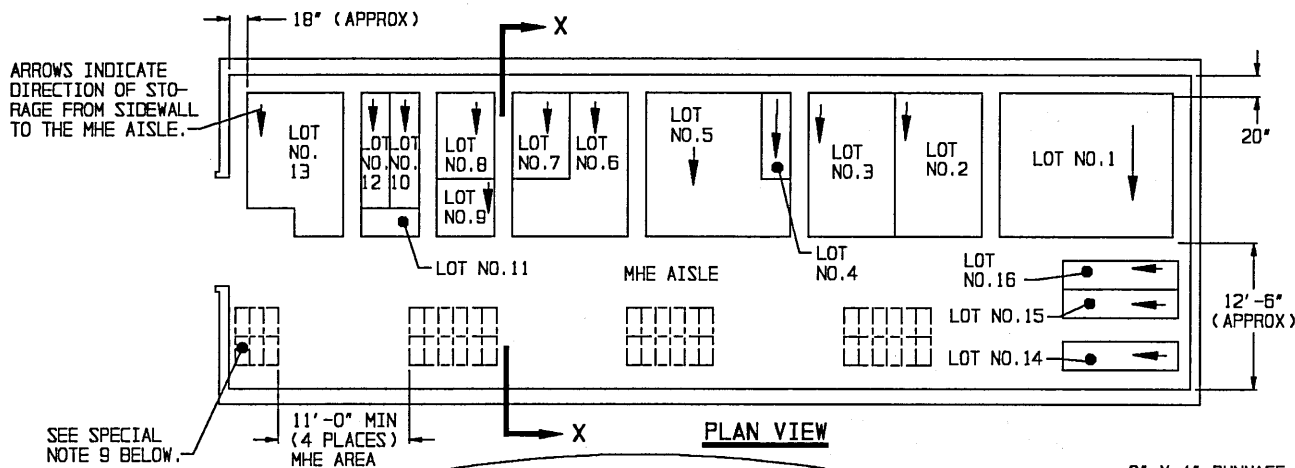
1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY AND APPLY TO RELATIVELY LARGE LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AN INSPECTION/INVENTORY AISLE MUST BE PROVIDED AT ONE SIDE OR END OF EACH LOT.
3. GENERALLY, THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE MAGAZINE. HOWEVER, THE REAR AREA MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING ROWS SIMILAR TO THOSE SHOWN IN THE FRONTAL AREA. A CENTER AISLE WILL NOT BE REQUIRED IN THE REAR AREA AS LONG AS EACH LOT IS ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.
4. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. A SINGLE-LOT OF PALLET UNITS IS CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR

**(SPECIAL NOTES CONTINUED)**

5. LOTS HAVE TO BE MADE TO GAIN ACCESS TO THAT LOT. THE TERM "LIFT" MEANS HANDLING AND MOVING NOT MORE THAN THREE (3) PALLET UNITS OF PROJECTILES AT ONE TIME.
6. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDEWALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
7. EACH LOT MUST BE STORED TWO (2) UNITS (MINIMUM) WIDE TO ACCOMMODATE WIDTH OF MHE DURING OPERATIONS, EXCEPT FOR A ROW ADJACENT TO A CENTER AISLE.
8. LENGTH OF 2" X 4" WEDGES WILL BE DETERMINED BY THE WIDTH OF THE LOT IN ROWS. WEDGES WILL NOT EXTEND INTO THE AISLES OR UNDER ADJACENT LOTS.
9. 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.

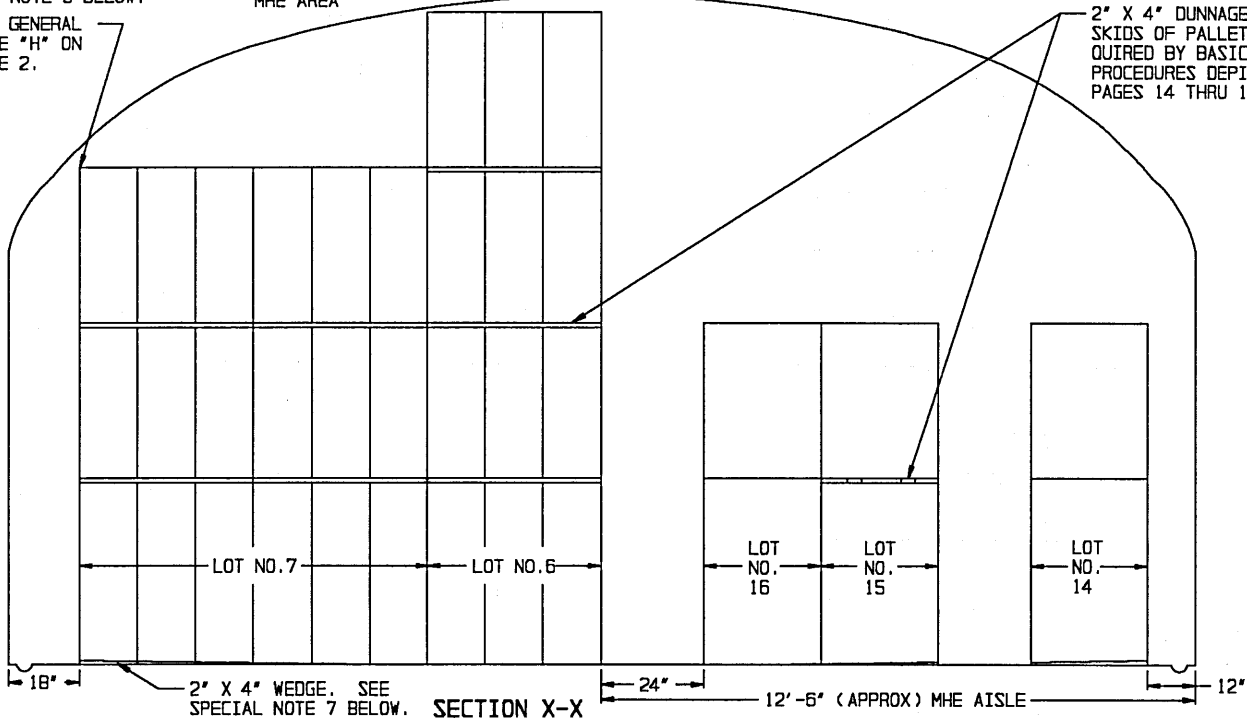
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SEE SPECIAL NOTE 9 BELOW.

SEE GENERAL NOTE "H" ON PAGE 2.



**SPECIAL NOTES:**

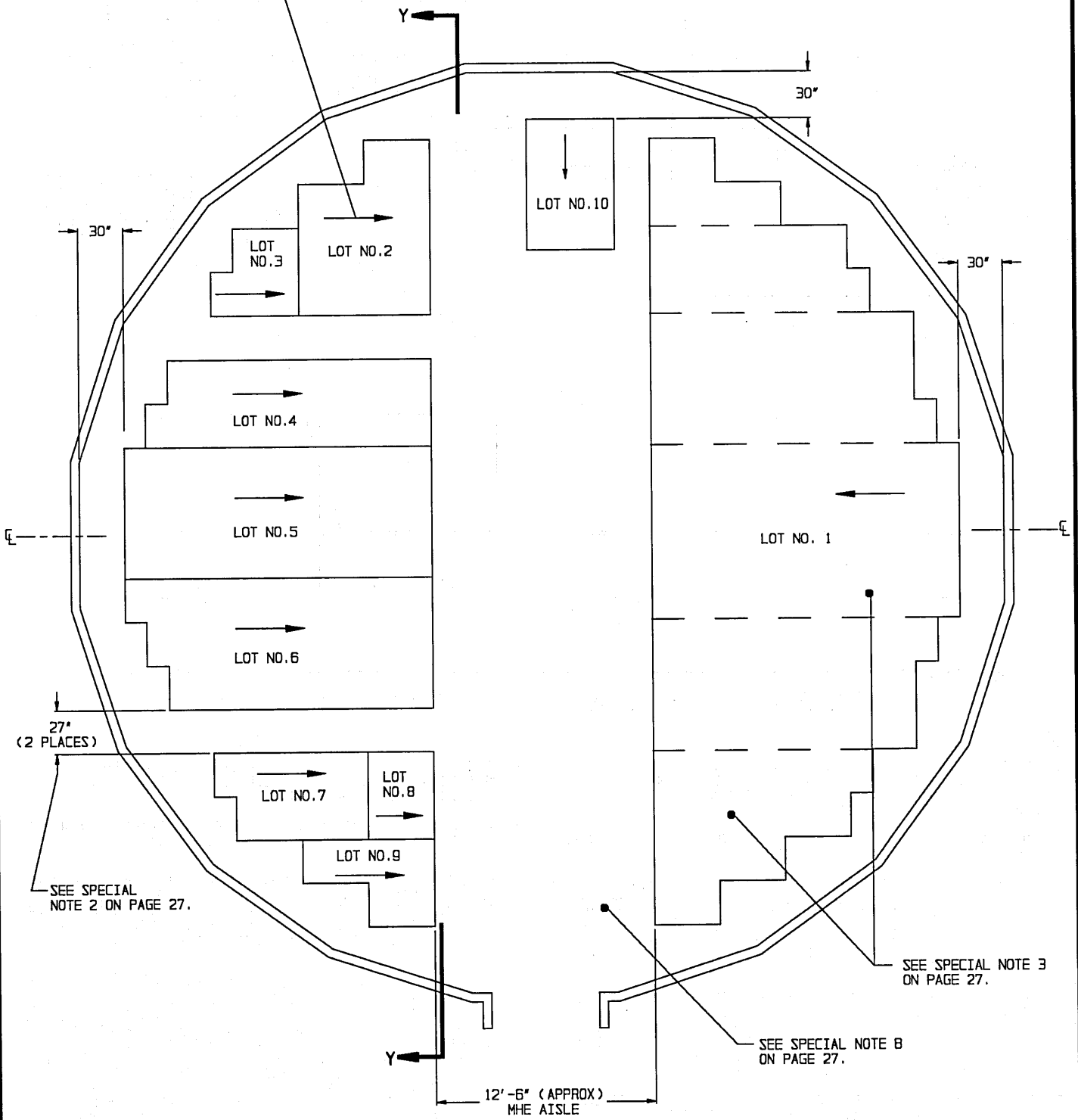
1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY AND APPLY TO STORAGE OF NUMEROUS SMALL LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 18" WIDE MUST BE PROVIDED AT ONE SIDE OF EACH "BURIED" LOT.
3. GENERALLY, THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE MAGAZINE. HOWEVER, THE REAR AREA MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING STACKS SIMILAR TO THOSE SHOWN IN THE FRONTAL AREA. AN MHE AISLE WILL BE REQUIRED ON ONE SIDE OF THE MAGAZINE, AND EACH LOT MUST BE ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.
4. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. A SINGLE-LOT OF PALLET UNITS IS CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THAT LOT. THE TERM "LIFT" MEANS HANDLING AND MOVING NOT MORE THAN THREE (3) PALLET UNITS OF PROJECTILES AT ONE TIME.
5. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDEWALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
6. EACH LOT MUST BE STORED TWO (2) UNITS (MINIMUM) WIDE TO ACCOMMODATE WIDTH OF MHE DURING OPERATIONS, EXCEPT FOR A ROW ADJACENT TO AN INSPECTION/INVENTORY AISLE.

(SPECIAL NOTES CONTINUED AT RIGHT).

**(SPECIAL NOTES CONTINUED)**

7. LENGTH OF 2" X 4" WEDGES WILL BE DETERMINED BY THE WIDTH OF THE LOT IN ROWS. WEDGES WILL NOT EXTEND INTO THE AISLES OR UNDER ADJACENT LOTS.
8. 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.
9. AREAS INCLOSED BY DOTTED LINES INDICATE LOCATIONS WHERE ADDITIONAL LOTS OR ITEMS MAY BE STORED, THAT ARE FROM THE LOT OR LOTS WHICH ARE DIRECTLY OR ALMOST DIRECTLY ACROSS THE CENTER AISLE ON THE OTHER SIDE OF THE MAGAZINE. COMPLIANCE WITH ALL OF THE MULTIPLE-LOT CRITERIA AS SET FORTH ON THIS PAGE MUST BE OBSERVED. THE SIZE OF THE LOTS BEING STORED AND THE CRITERIA OF SPECIAL NOTE 4, RELATIVE TO "12 LIFTS", WILL BE MAJOR FACTORS IMPACTING ON THE NUMBER OF UNIT LOADS THAT CAN BE STORED IN AN "ADDITIONAL STORAGE LOCATION". MORE OR FEWER STACKS THAN SHOWN MAY BE STORED AT ANY ONE OF THE ADDITIONAL STORAGE LOCATIONS. AN 11-FOOT MHE OPERATING AREA HAS BEEN SPECIFIED FOR ACCESS TO EACH "ADDITIONAL LOCATION" BY FORKLIFT TRUCK. THIS OPERATING AREA IS BASED ON REQUIREMENTS OF FORKLIFT TRUCKS COMMONLY USED IN STORAGE MAGAZINES. THE MHE OPERATING AREA CAN BE ENLARGED AS REQUIRED TO SUIT AVAILABLE FORKLIFT TRUCKS AND SHOULD BE MADE SMALLER IF AVAILABLE MHE PERMITS. A "CENTER AISLE" (SPACE BETWEEN STORAGE ON ONE SIDE OF A MAGAZINE AND AN "ADDITIONAL STORAGE LOCATION" IS TO BE AT LEAST 48 INCHES WIDE. AN AISLE SLIGHTLY WIDER THAN 48 INCHES WILL ENHANCE FORKLIFT TRUCK MOVEMENT WITHIN A MAGAZINE; HOWEVER, THIS AISLE SHOULD NOT BE MADE WIDER IF A LOSS IN STORAGE RESULTS.

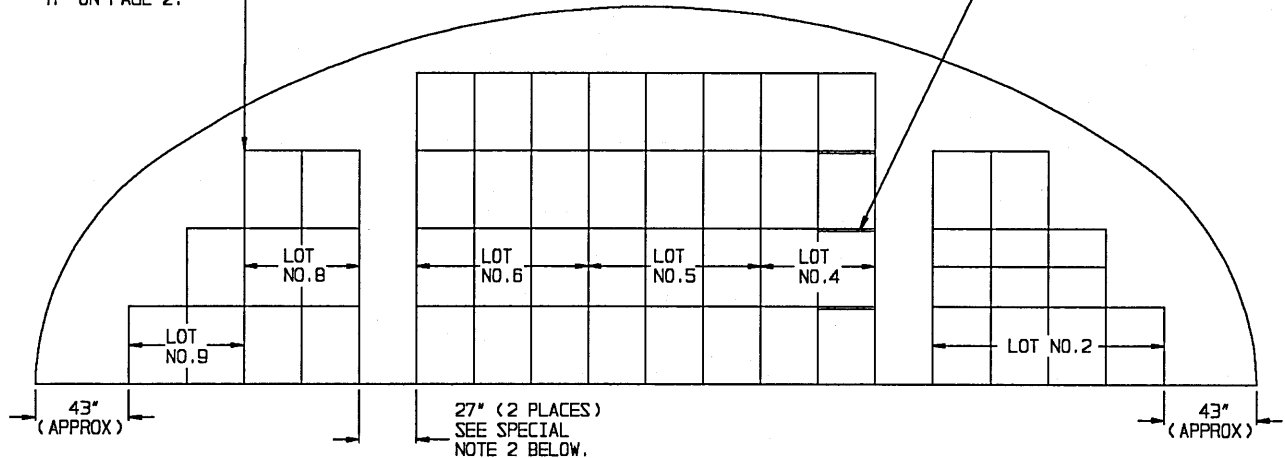
ARROWS INDICATE DIRECTION  
OF STORAGE FROM WALLS  
TOWARD MHE AISLE.



PLAN VIEW

SEE GENERAL NOTE  
"H" ON PAGE 2.

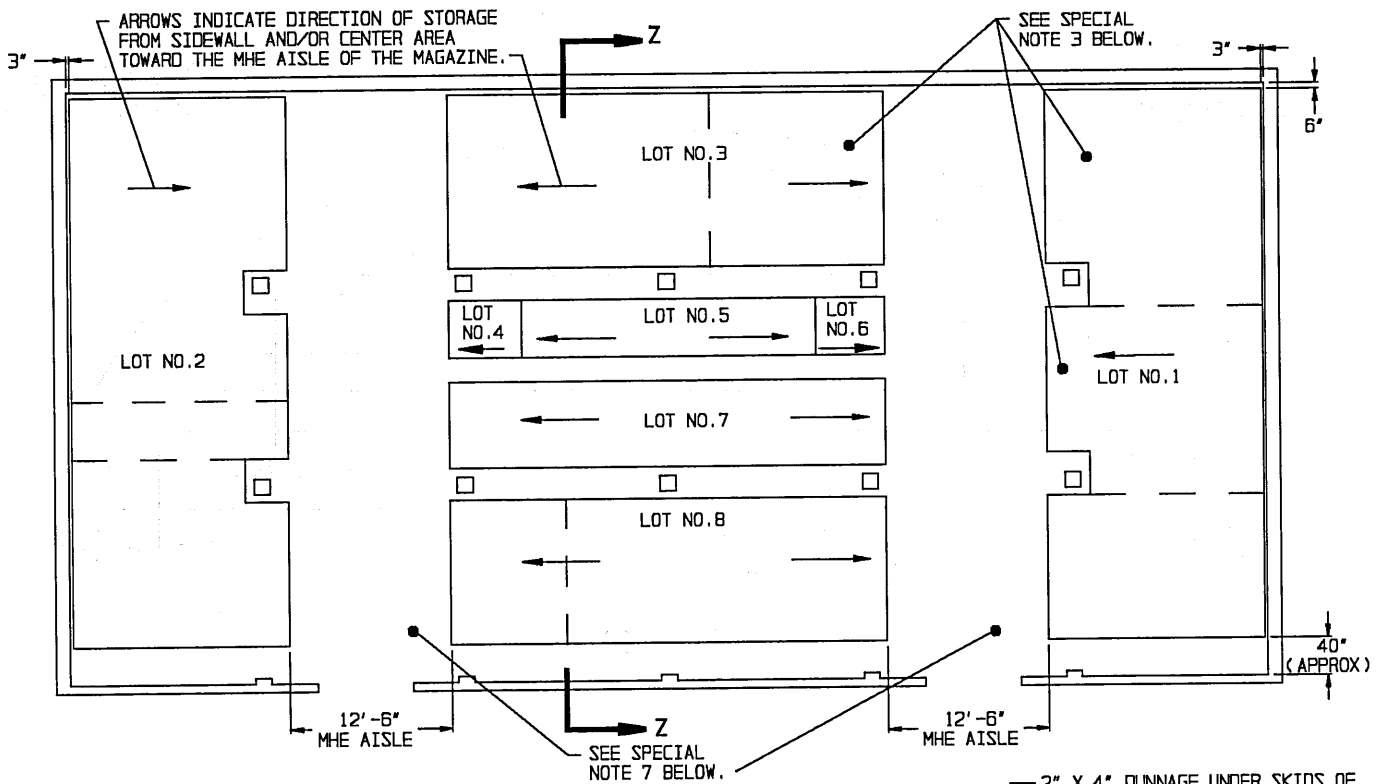
2" X 4" DUNNAGE UNDER SKIDS  
OF PALLETS AS REQUIRED BY  
BASIC STORAGE PROCEDURES  
DEPICTED ON PAGES 18 AND 19.



### SECTION Y-Y

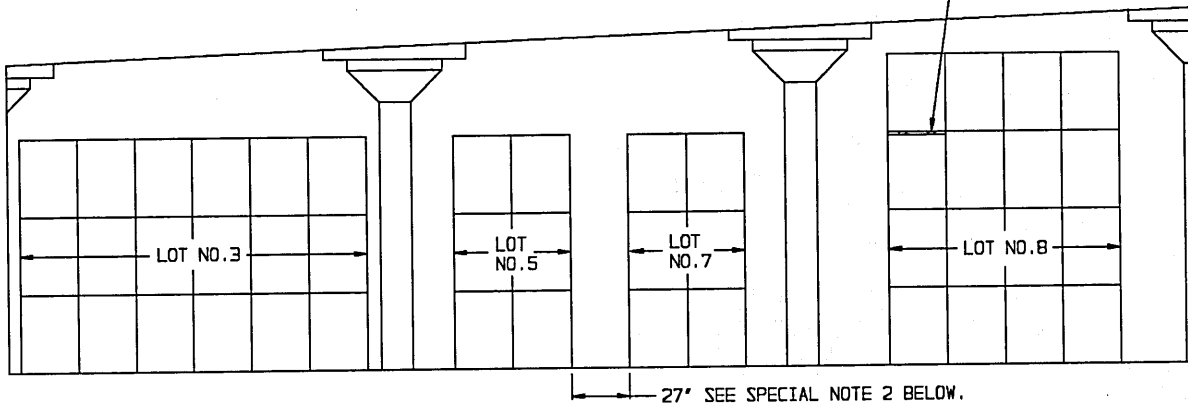
#### SPECIAL NOTES:

1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ARE TYPICAL ONLY AND APPLY TO RELATIVELY LARGE LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 18" WIDE MUST BE PROVIDED AT ONE SIDE OF EACH "BURIED" LOT.
3. GENERALLY, THE LARGEST LOT SHOULD BE STORED ON ONE SIDE OF THE MAGAZINE. HOWEVER, BOTH SIDES MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING ROWS SIMILAR TO THOSE SHOWN ON THE LEFT SIDE. EACH ADDITIONAL LOT MUST BE ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.
4. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. A SINGLE-LOT OF PALLET UNITS IS CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THAT LOT. THE TERM "LIFT" MEANS HANDLING AND MOVING NOT MORE THAN THREE (3) PALLET UNITS OF PROJECTILES AT ONE TIME.
5. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE WALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
6. EACH LOT MUST BE STORED TWO (2) UNITS (MINIMUM) WIDE TO ACCOMMODATE WIDTH OF THE MHE DURING OPERATIONS, EXCEPT FOR A ROW ADJACENT TO AN INSPECTION/INVENTORY AISLE.
7. 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.
8. THE MHE AISLE MAY BE USED TO STORE ONE OR MORE STACKS OF ADDITIONAL LOTS OR ADDITIONAL ITEMS THAT ARE FROM A LOT ADJACENT TO THE MHE AISLE. THIS ADDITIONAL STORAGE IS TO BE ARRANGED IN A MANNER SIMILAR TO ARRANGEMENTS DEPICTED ON PAGES 23 AND 25 FOR THE "ADDITIONAL STORAGE LOCATIONS" (SHOWN BY DOTTED LINES). ADEQUATE SPACE FOR MHE OPERATION, AS DESCRIBED ON PAGES 23 AND 25, MUST BE MADE AVAILABLE FOR THE ADDITIONAL STORAGE. ALSO COMPLIANCE WITH ALL OF THE MULTIPLE-LOT CRITERIA AS SET FORTH ON THIS PAGE MUST BE OBSERVED.



**PLAN VIEW**

2" X 4" DUNNAGE UNDER SKIDS OF PALLETS AS REQUIRED BY BASIC STORAGE PROCEDURES DEPICTED ON PAGES 20 AND 21.



**SECTION Z-Z**

**SPECIAL NOTES:**

(SPECIAL NOTES CONTINUED).

1. THE STORAGE PLANS SHOWN ARE TYPICAL ONLY. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 18" WIDE MUST BE PROVIDED AT ONE SIDE OF EACH "BURIED" LOT.
3. GENERALLY, THE LARGEST LOT SHOULD BE STORED IN THE REAR OR ON ONE SIDE OF THE MAGAZINE. HOWEVER, THESE AREAS MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING ROWS SIMILAR TO THOSE SHOWN IN THE CENTER AREA OR AS TYPICALLY INDICATED BY DOTTED LINES. EACH ADDITIONAL LOT MUST BE ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.
4. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. 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 NOT MORE THAN THREE (3) PALLET UNITS OF PROJECTILES AT ONE TIME.

5. 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.
6. EACH LOT MUST BE STORED TWO (2) UNITS (MINIMUM) WIDE TO ACCOMMODATE WIDTH OF MHE DURING OPERATIONS, EXCEPT FOR A ROW ADJACENT TO AN INSPECTION/INVENTORY AISLE.
7. THE MHE AISLE MAY BE USED TO STORE ONE OR MORE STACKS OF ADDITIONAL LOTS OR ADDITIONAL ITEMS THAT ARE FROM A LOT ADJACENT TO THE MHE AISLE. THIS ADDITIONAL STORAGE IS TO BE ARRANGED IN A MANNER SIMILAR TO ARRANGEMENTS DEPICTED ON PAGES 23 AND 25 FOR THE "ADDITIONAL STORAGE LOCATIONS" (SHOWN BY DOTTED LINES). ADEQUATE SPACE FOR MHE OPERATION, AS DESCRIBED ON PAGES 23 AND 25, MUST BE MADE AVAILABLE FOR THE ADDITIONAL STORAGE. ALSO, COMPLIANCE WITH ALL OF THE MULTIPLE-LOT CRITERIA AS SET FORTH ON THIS PAGE MUST BE OBSERVED.

(SPECIAL NOTES CONTINUED AT RIGHT).