
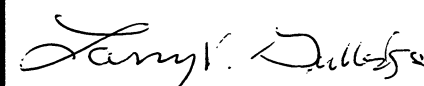




STORAGE IN APPROVED MAGAZINES OF CARTRIDGE, 120MM, PACKED 1 PER PA116 CYLINDRICAL METAL CONTAINER, UNITIZED 30 CONTAINERS PER 40" X 44" METAL PALLET

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NOTE: THIS DRAWING, INCLUDING REVISION NO. 1, SUPERSEDES AMC DRAWING NO. 19-48-4250/48-1-3-4-14-22PM1004, DATED APRIL 1996

U. S. ARMY MATERIEL COMMAND DRAWING				
APPROVED, U. S. ARMY INDUSTRIAL OPERATIONS COMMAND  AMSTA-AR-ESK	DRAFTSMAN	INGEBORG DEPPE		
APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL COMMAND  U. S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL	ENGINEER	M. DAEUMER		
	SUPPLY ENGINEERING DIVISION			
	LOGISTICS ENGINEERING OFFICE			
	AUGUST 1994			
	CLASS	DIVISION	DRAWING	FILE
REVISION NO. 1	OCTOBER 1996		19	48
SEE THE REVISION LISTING ON PAGE 2.		4250/ 48	1-2-3-4-14 22 PM1004	

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 COMPLETE ROUND 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. THE STORAGE PROCEDURES SPECIFIED HEREIN ARE APPLICABLE FOR THE 120MM COMPLETE ROUND PACKED IN THE PA116 SERIES CONTAINER AND INITIALIZED ON A 40" LONG BY 44" WIDE PALLET WITH COVER. SUBSEQUENT REFERENCE TO PALLET UNIT MEANS THE PALLET UNIT WITH AMMUNITION ITEMS.
- D. FOR PALLET UNIT DETAILS, REFER TO U.S. ARMY AMC INITIALIZATION DRAWING 19-48-4231/48-20PM1006 AND THE PICTORIAL VIEW ON PAGE 3. SEE NOTE "T" AT RIGHT.
- E. CAUTION: THE ALLOWABLE "EXPLOSIVE LIMIT" ESTABLISHED FOR A MAGAZINE IS NOT TO BE EXCEEDED. THIS LIMITATION MAY REQUIRE A QUANTITY REDUCTION FROM THE STORAGE AS SHOWN.
- F. 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.
- G. 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.
- H. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE AS PRESCRIBED BY LOCAL STANDARDS WILL NOT BE EXCEEDED.
- J. 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 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 TRUCK OF ADEQUATE CAPACITY WILL BE USED WHEN LIFTING TWO PALLET UNITS AS ONE LIFT.
- K. THE MATERIALS HANDLING EQUIPMENT (MHE) AREA SHOULD BE OF SUFFICIENT DIMENSION TO PERMIT "TURN-AROUND" OF MHE WHEN STORING IN MAGAZINE NOT EQUIPPED WITH PROPERLY SIZED APRONS FOR THAT PURPOSE. THE MHE AISLE IN ALL MAGAZINES IS BASED ON A FIGURE WHICH IS AT LEAST 7'-7" PLUS THE LENGTH OR WIDTH OF THE PALLET UNIT, AS APPLICABLE, OR THE LENGTH OF THE FORKLIFT TRUCK TINES (40") WHICHEVER IS THE GREATEST. IF THE AVAILABLE MHE PERMITS, ADDITIONAL PALLET UNITS MAY BE STORED WITHIN THE MHE AREA AND/OR OTHER AVAILABLE AREA OF THE MAGAZINE.
- L. THE USE OF "FLOOR DUNNAGE" UNDER METAL PALLETS IS OPTIONAL, ALTHOUGH THE USE OF THIS TYPE OF DUNNAGE IS DELINEATED WITHIN THIS STORAGE PROCEDURE DRAWING. THE PURPOSE OF FLOOR DUNNAGE IS TO HELP KEEP THE RUNNERS OF A PALLET DRY, THUS AIDING IN PREVENTING DETERIORATION DUE TO CORROSION. THEREFORE, FLOOR DUNNAGE SHOULD BE USED WHEN STORING IN A MAGAZINE THAT IS KNOWN TO HAVE A "DAMP" FLOOR. ALSO, IN LIEU OF USING ONE-INCH THICK FLOOR DUNNAGE AS SPECIFIED, THE USE OF THICKER FLOOR DUNNAGE MAY BE REQUIRED, AND SHOULD BE USED, TO ACHIEVE THE DESIRED OBJECTIVE. NOTE: ISOMETRIC VIEWS WITHIN THIS DRAWING DO NOT DEPICT ALL FLOOR DUNNAGE THAT IS REQUIRED WHEN DUNNAGE IS USED. FLOOR DUNNAGE IS SHOWN AT SOME LOCATIONS TO PROVIDE POSITIONING GUIDANCE.

MATERIAL SPECIFICATIONS

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

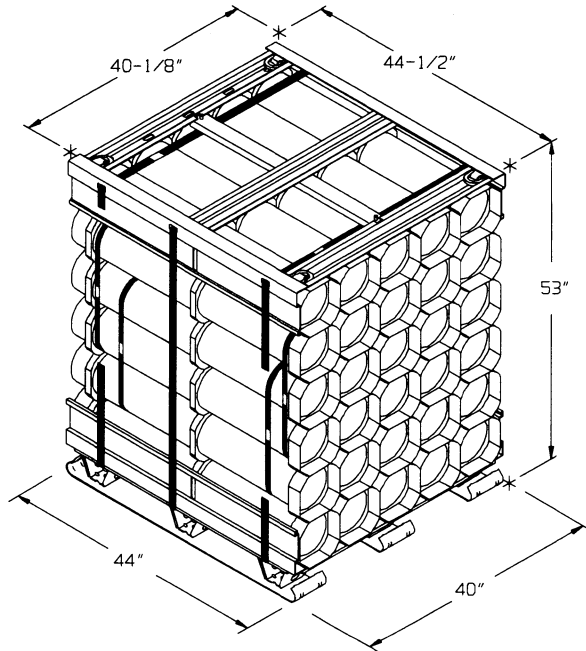
(GENERAL NOTES CONTINUED)

- M. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 1" X 6" MATERIAL IS ACTUALLY 3/4" THICK BY 5-1/2" WIDE.
- N. STORAGE OF MULTIPLE LOTS IN A MAGAZINE WILL REQUIRE CAREFUL PRE-PLANNING SO AS TO INSURE 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 PAGES 26 THRU 32.
- O. ALTHOUGH SPECIFIC PROCEDURES ARE INCLUDED IN THIS DRAWING FOR STORING MULTIPLE LOTS WITHIN ONE STRUCTURE, THE BASIC STORAGE PATTERNS AS SHOWN ON PAGES 4 THRU 25 CAN ALSO BE ADAPTED FOR THE STORING OF MORE THAN ONE LOT. LOTS WHEN STORED IN ACCORDANCE WITH A BASIC STORAGE PATTERN MAY BE STORED WITH ONE OR MORE ROWS USED FOR EACH LOT. A SPACE OF APPROXIMATELY 1" WILL HAVE TO BE LEFT BETWEEN ADJACENT ROWS CONTAINING DIFFERENT LOTS. IN BASIC STORAGE PATTERNS WHERE THE WIDTH OF A ROW IS ESTABLISHED BY THE 44-1/2" UNIT-DIMENSION, EACH ROW MAY BE A DIFFERENT LOT AND READILY REMOVABLE. IN BASIC STORAGE PATTERNS WHERE THE WIDTH OF A ROW IS ESTABLISHED BY THE 40-1/8" UNIT DIMENSION, A LOT MUST CONSIST OF TWO OR MORE ROWS TO PROVIDE ADEQUATE SPACE TO ACCOMMODATE THE WIDTH OF A FORKLIFT TRUCK FOR STORING OR REMOVING THE LOT. HOWEVER, WHEN THE SIZE OF THE LOT REQUIRES THE SPACE OF ONLY ONE ROW, IT IS PERMISSIBLE TO STORE THAT LOT WITH THE 44-1/2" UNIT-DIMENSION ESTABLISHING THE WIDTH OF THAT ROW, PROVIDING THE STORAGE PRINCIPLES SPECIFIED ARE FOLLOWED AS CLOSELY AS POSSIBLE. THE 1" SPACE BETWEEN LOTS, AS STATED ABOVE WILL NOT BE EXCEEDED SOLELY TO ACCOMMODATE THE WIDTH OF A FORKLIFT TRUCK. FOR ADDITIONAL REQUIREMENTS AND GUIDANCE, SEE THE SPECIAL NOTES FOR MULTIPLE-LOT STORAGE ON PAGES 26 THRU 32.
- P. ANY "LIGHT" PALLET UNIT THAT DOES NOT CONTAIN A FULL QUANTITY OF COMPLETE ROUNDS WILL NOT BE BURIED IN STORAGE. IT MUST BE POSITIONED ADJACENT TO AN AISLE, PREFERABLY IN FRONT OF THE LOT.
- Q. PORTIONS OF THE MAGAZINES, SUCH AS SIDEWALLS, END WALLS, AND ROOFS, HAVE NOT BEEN SHOWN IN THE STORAGE VIEWS FOR CLARITY PURPOSES.
- R. A PRODUCTION OR STORAGE FACILITY IS AUTHORIZED TO HAVE ONE INCOMPLETE, UNBANDIED PARTIAL UNIT LOAD PER LOT IN A STORAGE STRUCTURE. PRIOR TO SHIPMENT OF A PARTIAL UNIT, A LAYER MUST BE COMPLETED BY POSITIONING OF ONE OR MORE FILLER CONTAINERS AS DELINEATED BY DRAWING 19-48-4231/48-20PM1006. THE UNIT MUST THEN BE RE-BANDIED WITH THE SAME SIZE AND QUANTITY OF STRAPS AS THE ORIGINAL UNIT.
- S. WHEN STORING 120MM CARTRIDGES, DODAC'S 1315-C791 AND 1315-C792 THE OPENING END OF THE CONTAINERS FOR THE OUTER STACKS, SHALL BE LOCATED INWARD TO PROVIDE ADDITIONAL SECURITY WHILE IN STORAGE.
- T. SOME PALLETIZED UNITS OF 120MM CARTRIDGES IN PA116 CONTAINERS MAY HAVE A UNIT HEIGHT OF 51-3/4". THE PROCEDURES DEPICTED IN THIS DRAWING WILL ALSO APPLY TO THE STORAGE OF THE 51-3/4" HIGH UNITS. UNITS PRESENTLY STORED IN ACCORDANCE WITH A PREVIOUSLY APPROVED DRAWING NEED NOT BE RE-STORED SOLELY TO CONFORM WITH THE PROCEDURES DEPICTED IN THIS REVISED DRAWING.

REVISIONS

REVISION NO. 1, DATED OCTOBER 1996, CONSIST OF:

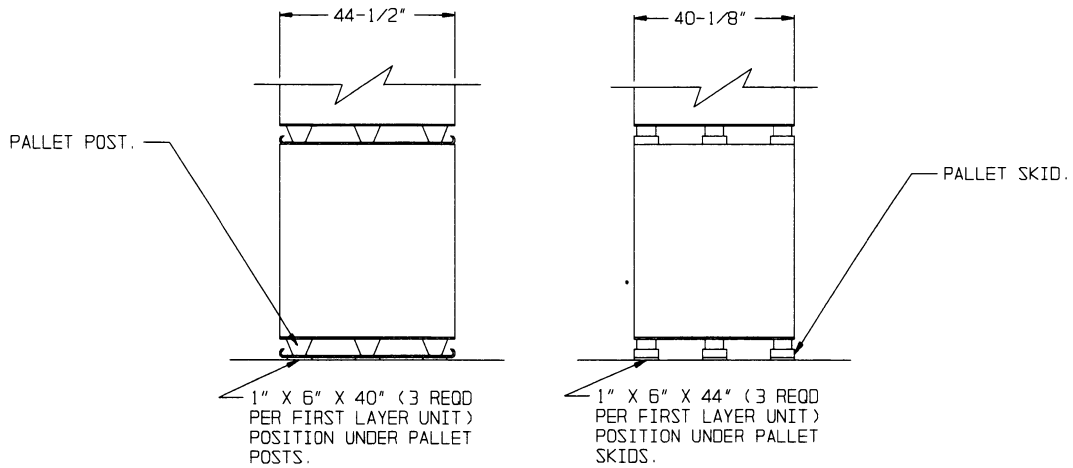
1. UPDATING DRAWING FORMAT.
2. CHANGING PALLET UNIT LENGTH DIMENSION FROM 40-1/2" TO 40-1/8", AND ADJUSTING STORAGE SPACE DIMENSIONS ACCORDINGLY.
3. ADDING GENERAL NOTE "T".
4. ADDING PROCEDURES FOR STEEL ARCH MAGAZINE.
5. CHANGING PAGE NUMBERS, AS APPLICABLE.



ISOMETRIC VIEW

30 CONTAINERS PER PALLET
 UNIT WEIGHT - - - - 2,444 LBS (APPROX)
 CUBE - - - - - 54.8 CUBIC FEET

NOTE: SOME PALLET UNITS MAY ONLY BE
 51-3/4" HIGH. SEE GENERAL NOTE
 "T" ON PAGE 2.



LOCATION "A"

LOCATION "B"

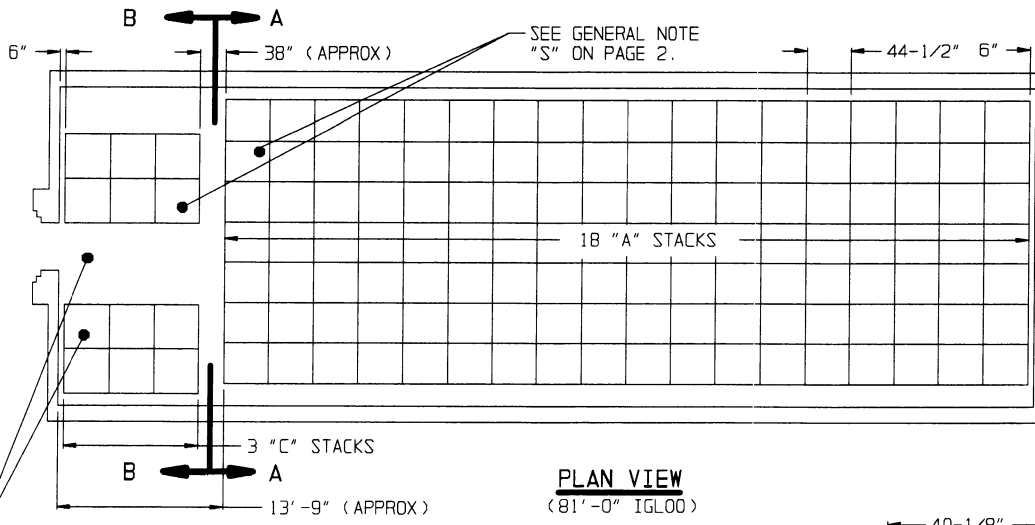
FLOOR DUNNAGE

SEE GENERAL NOTE
 "L" ON PAGE 2.

DETAILS

STORAGE IN 81'-0" IGLOO

(12'-9" HIGH)

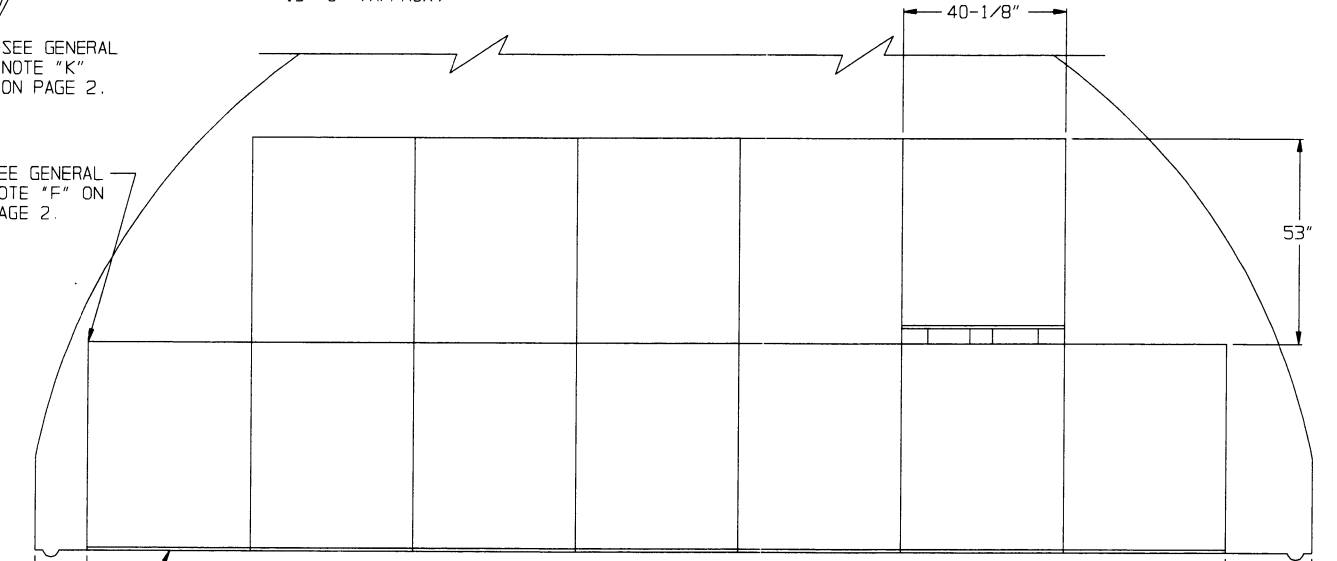


ITEM	QUANTITY
PALLET UNITS - - - -	234
PA116 CONTAINERS - -	7,020

PLAN VIEW
(81'-0" IGLOO)

SEE GENERAL NOTE "K" ON PAGE 2.

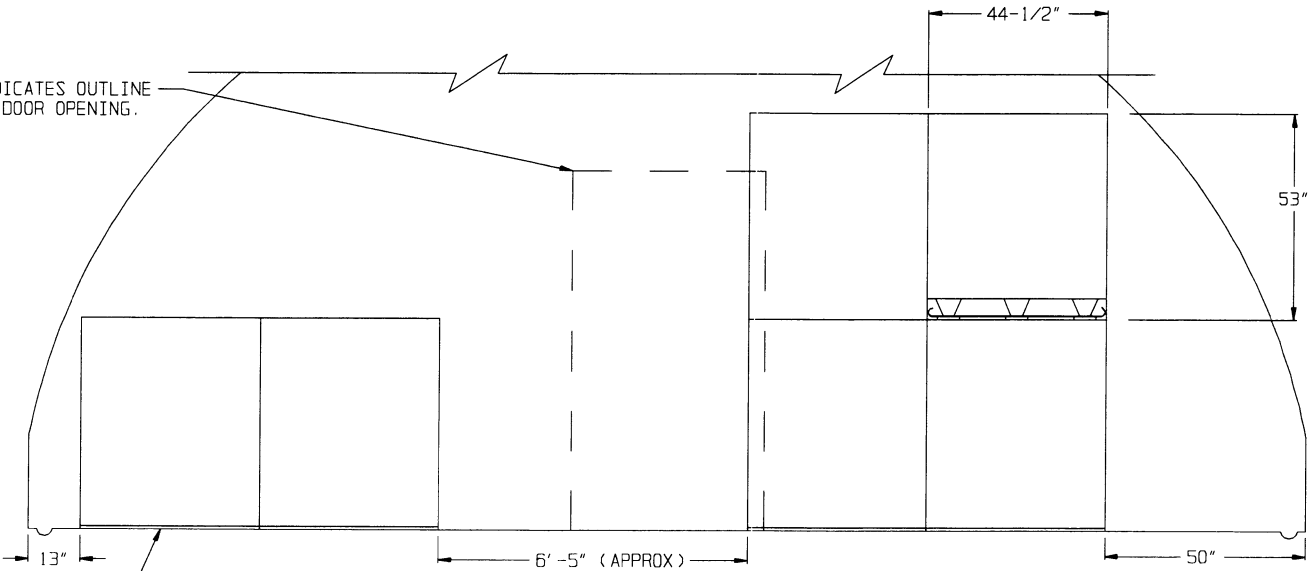
SEE GENERAL NOTE "F" ON PAGE 2.



SECTION A-A

FLOOR DUNNAGE, 1" X 6" X 40"
(21 REOD PER STACK). SEE LOCATION "A" DETAIL ON PAGE 3.
("A" STACK, 12 PALLET UNITS)

INDICATES OUTLINE OF DOOR OPENING.



SECTION B-B

FLOOR DUNNAGE, 1" X 6" X 44"
(12 REOD PER STACK). SEE LOCATION "B" DETAIL ON PAGE 3.
("C" STACK, 6 PALLET UNITS)

STORAGE IN 60'-8" IGL00

(12'-9" HIGH)

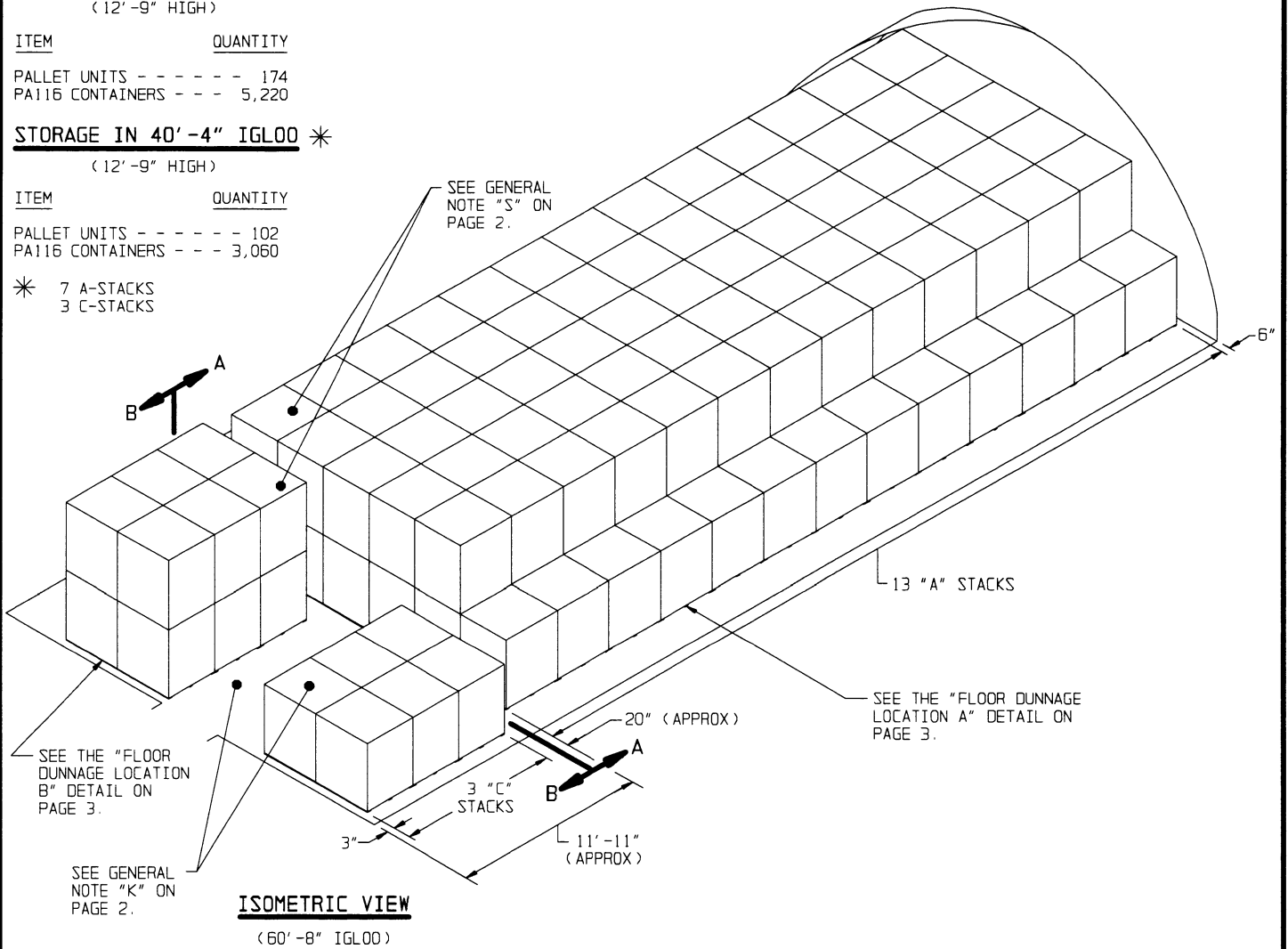
ITEM	QUANTITY
PALLET UNITS - - - - -	174
PA116 CONTAINERS - - - -	5,220

STORAGE IN 40'-4" IGL00 *

(12'-9" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - - -	102
PA116 CONTAINERS - - - -	3,060

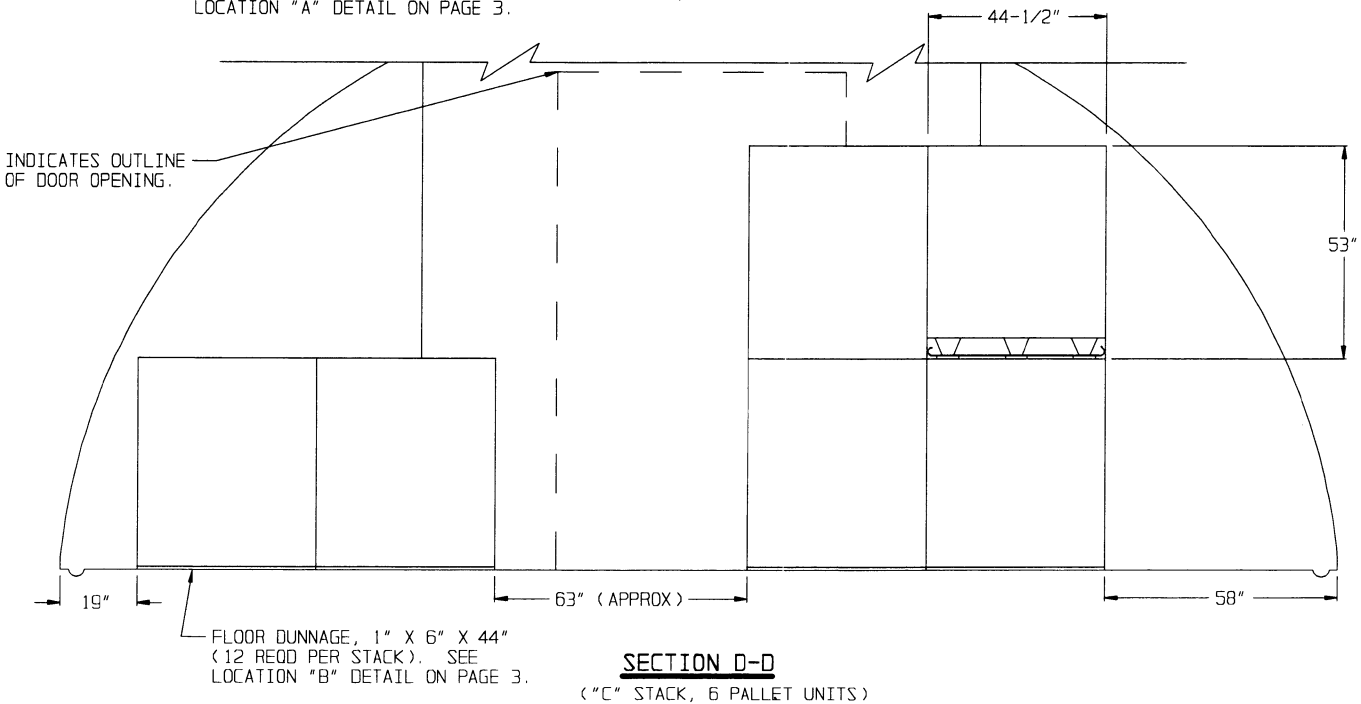
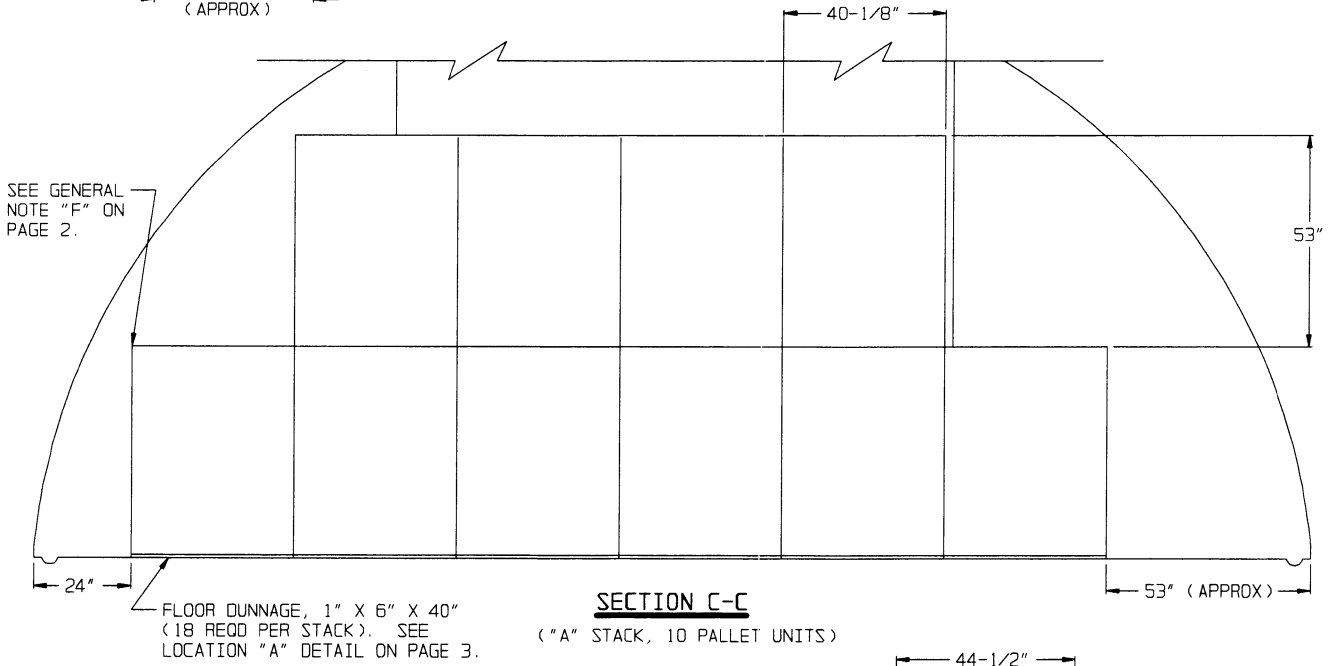
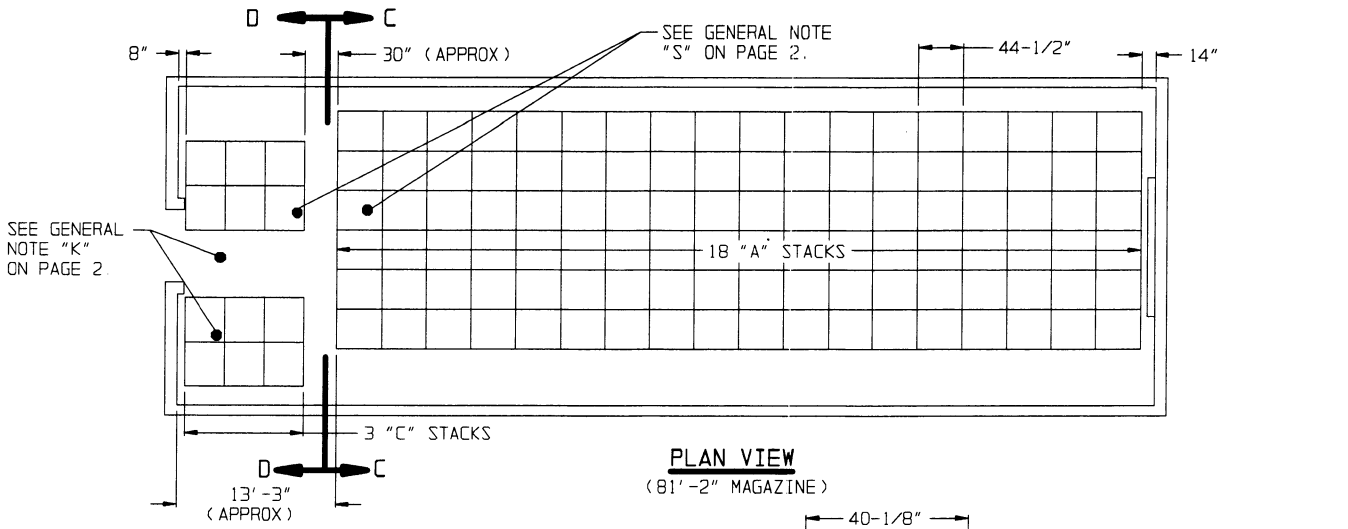
* 7 A-STACKS
3 C-STACKS



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

BILL OF MATERIAL (PER STACK) * *		
TYPE STACK	1" X 6" DUNNAGE LUMBER	
	LINEAR FEET	BOARD FEET
A	70	35
C	44	22

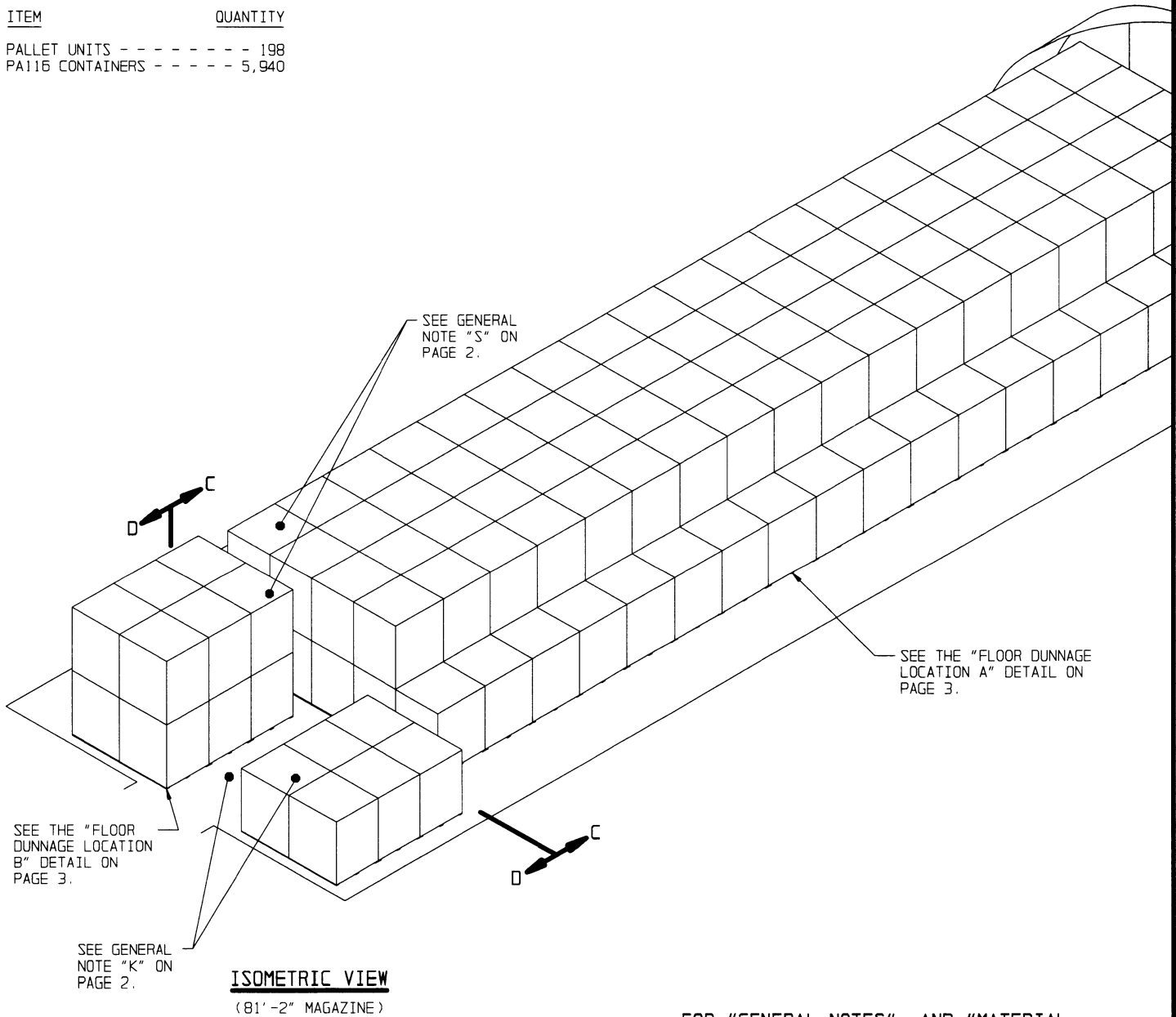
* * SEE GENERAL NOTE "L" ON PAGE 2.



STORAGE IN 81'-2" MAGAZINE

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

ITEM	QUANTITY
PALLET UNITS - - - - -	198
PA116 CONTAINERS - - - - -	5,940



ISOMETRIC VIEW
(81'-2" MAGAZINE)

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

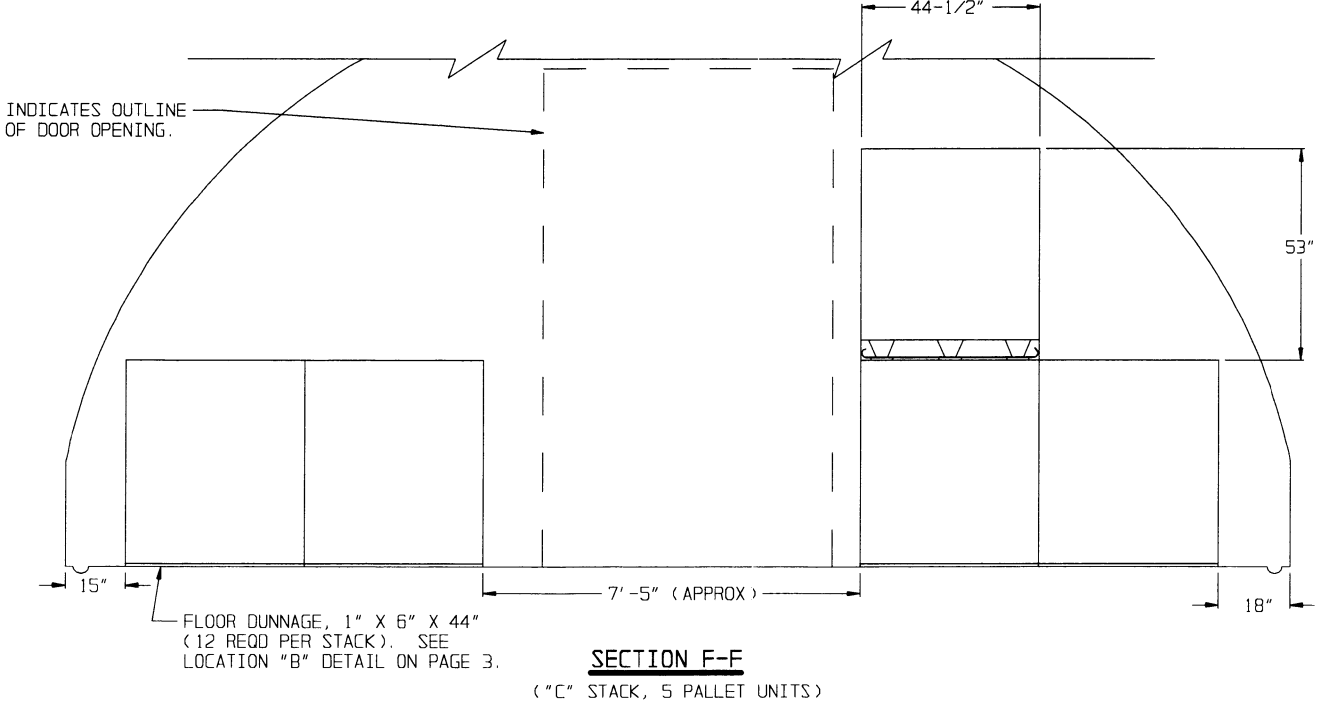
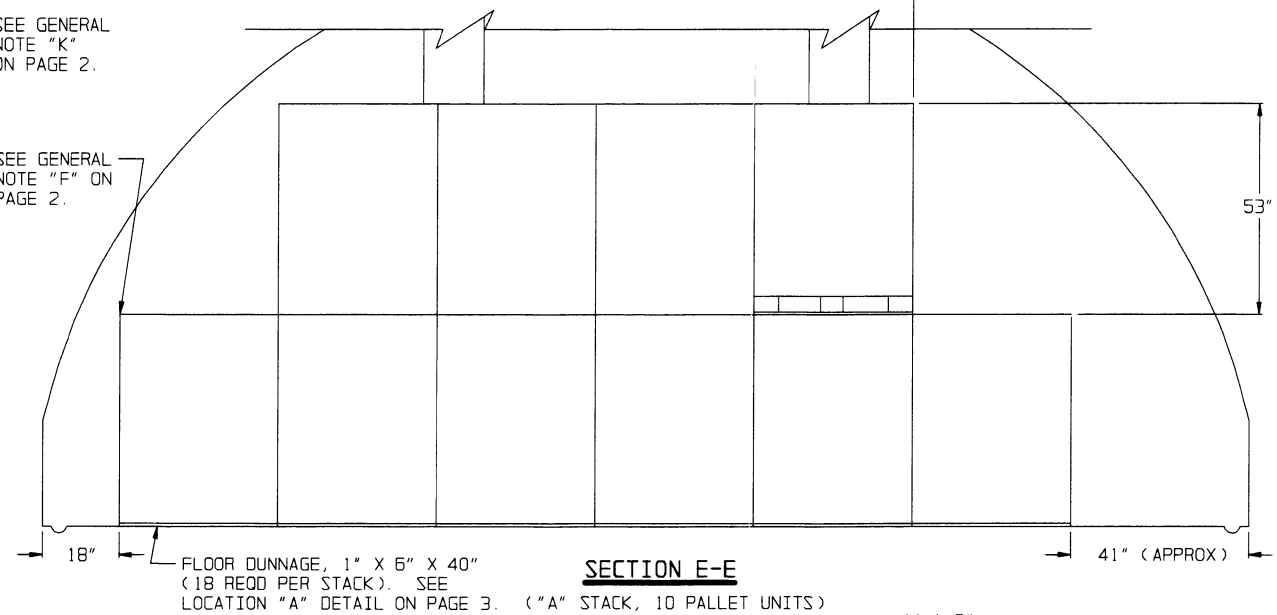
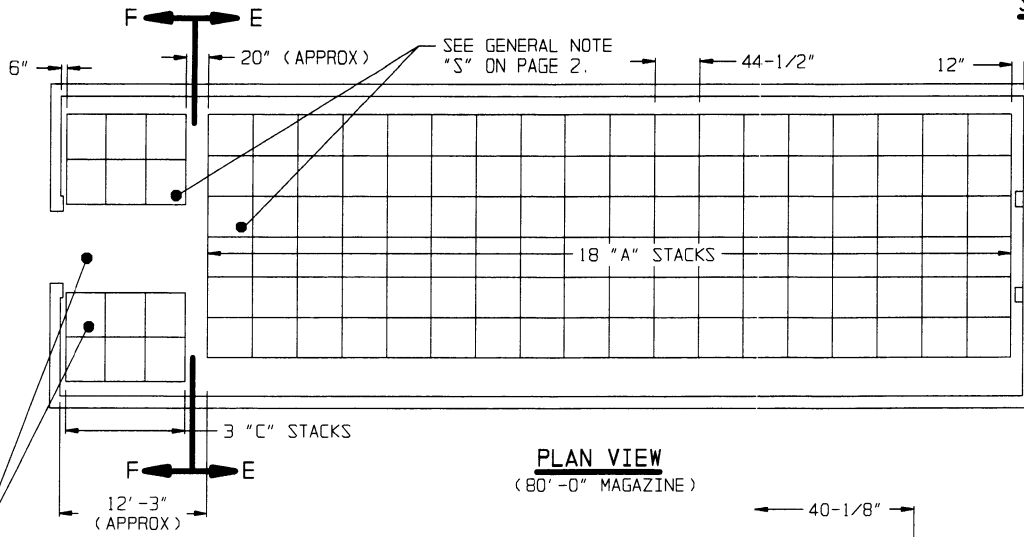
BILL OF MATERIAL (PER STACK) *		
TYPE STACK	1" X 6" DUNNAGE LUMBER	
	LINEAR FEET	BOARD FEET
A	60	30
C	44	22

* SEE GENERAL NOTE "L" ON PAGE 2.

STORAGE IN 80'-0" MAGAZINE

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

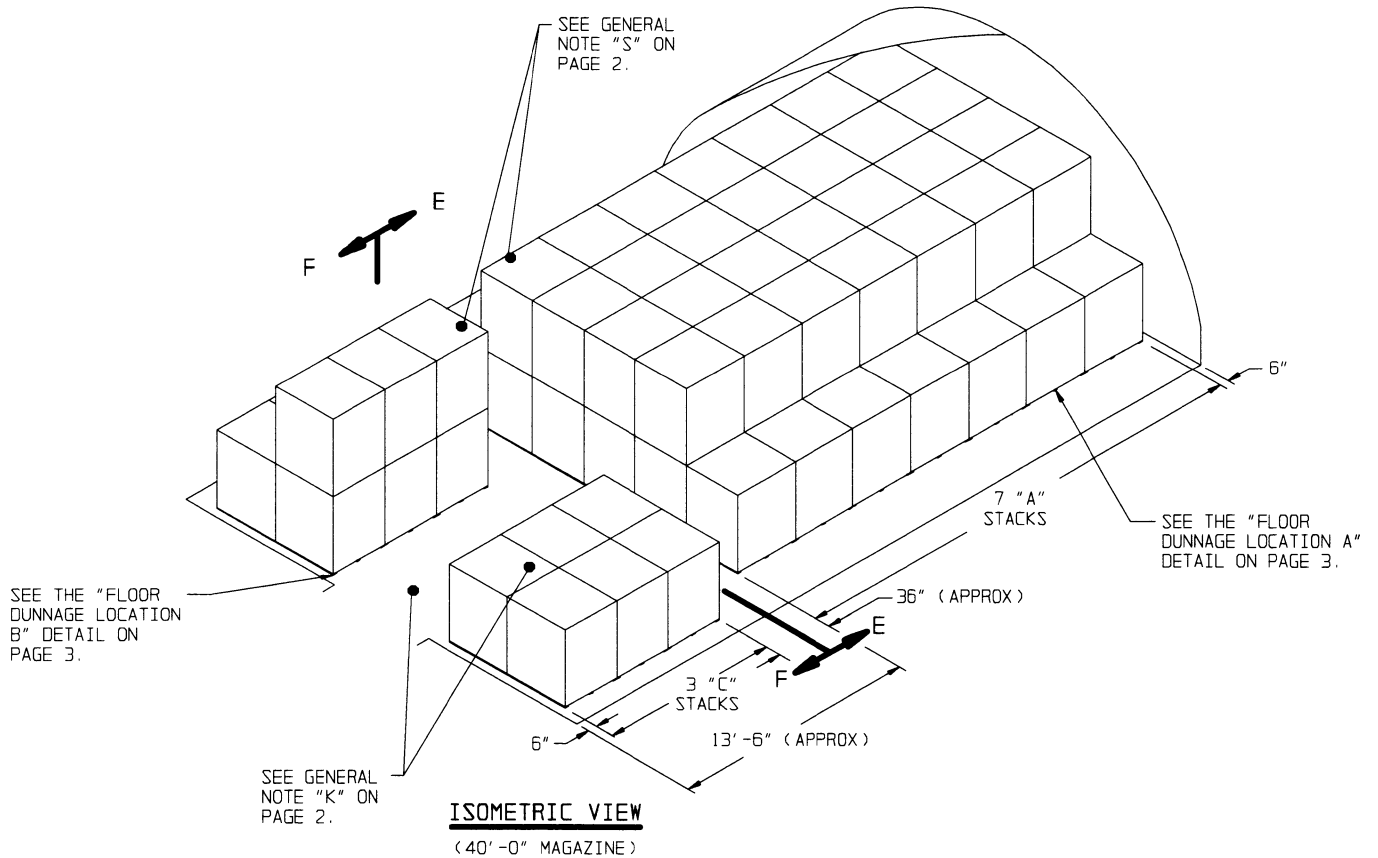
ITEM	QUANTITY
PALLET UNITS - - - -	195
PA116 CONTAINERS - -	5,850



STORAGE IN 40'-0" MAGAZINE

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

ITEM	QUANTITY
PALLET UNITS - - - - -	85
PA116 CONTAINERS - - - - -	2,550



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

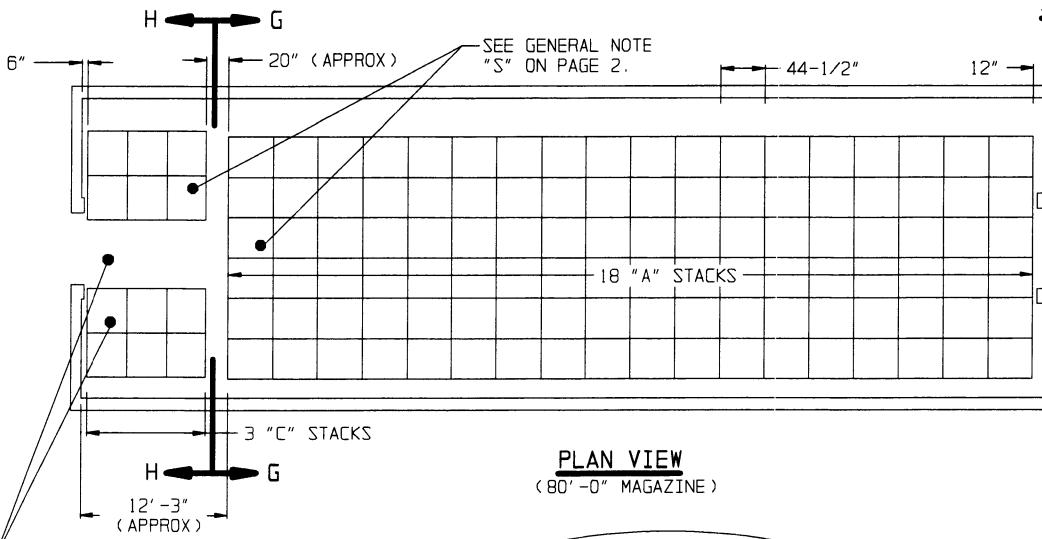
BILL OF MATERIAL (PER STACK) *		
TYPE STACK	1" X 6" DUNNAGE LUMBER	
	LINEAR FEET	BOARD FEET
A	60	30
C	44	22

* SEE GENERAL NOTE "L" ON PAGE 2.

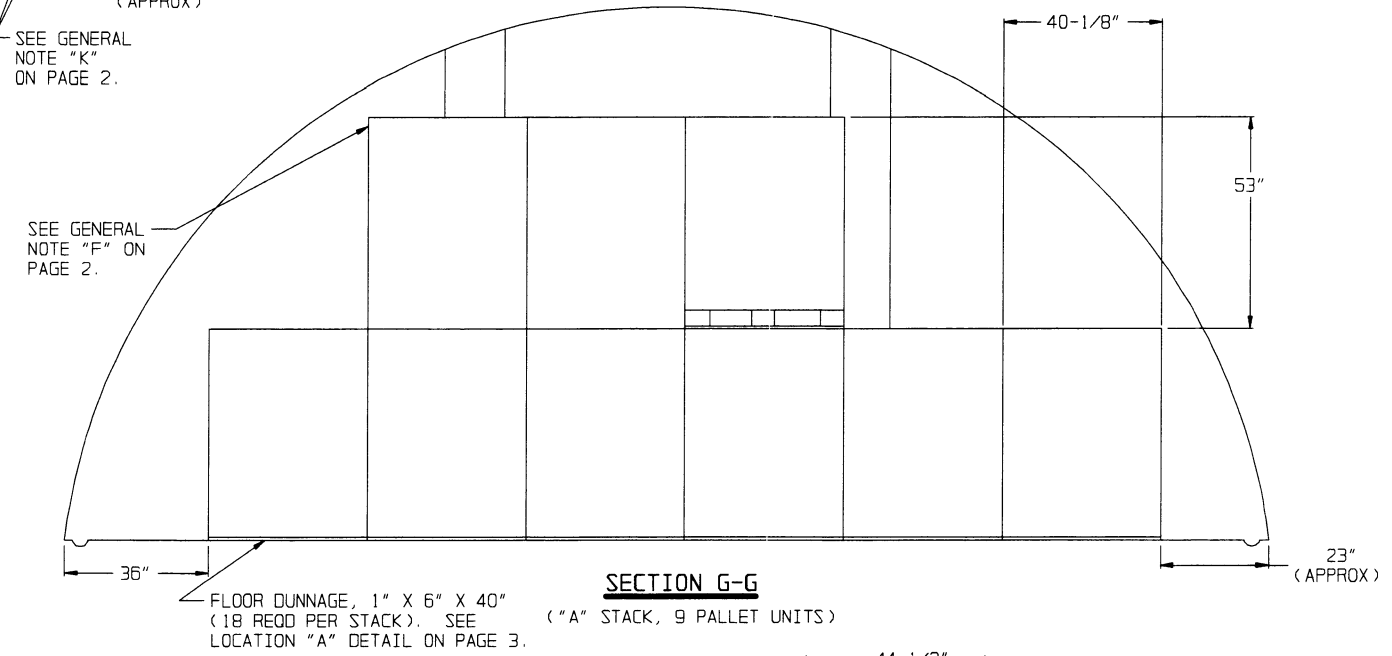
STORAGE IN 80'-0" MAGAZINE

(11'-0" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - -	177
PA116 CONTAINERS - - -	5,310

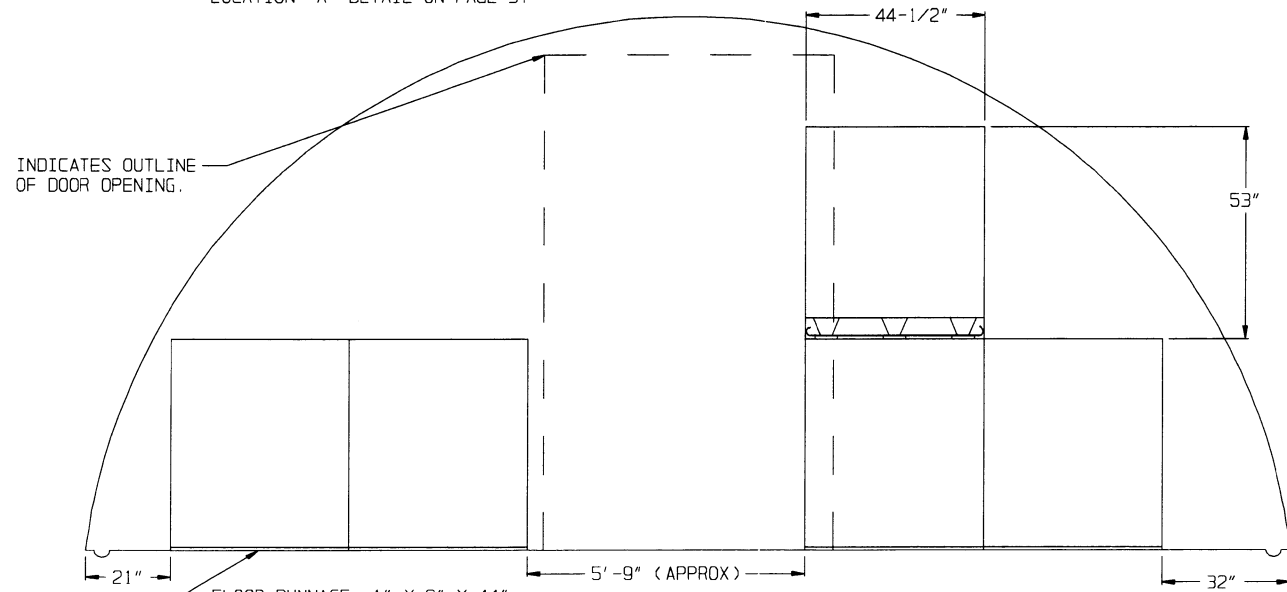


PLAN VIEW
(80'-0" MAGAZINE)



SECTION G-G

FLOOR DUNNAGE, 1" X 6" X 40"
(18 REOD PER STACK). SEE LOCATION "A" DETAIL ON PAGE 3.
("A" STACK, 9 PALLET UNITS)



SECTION H-H

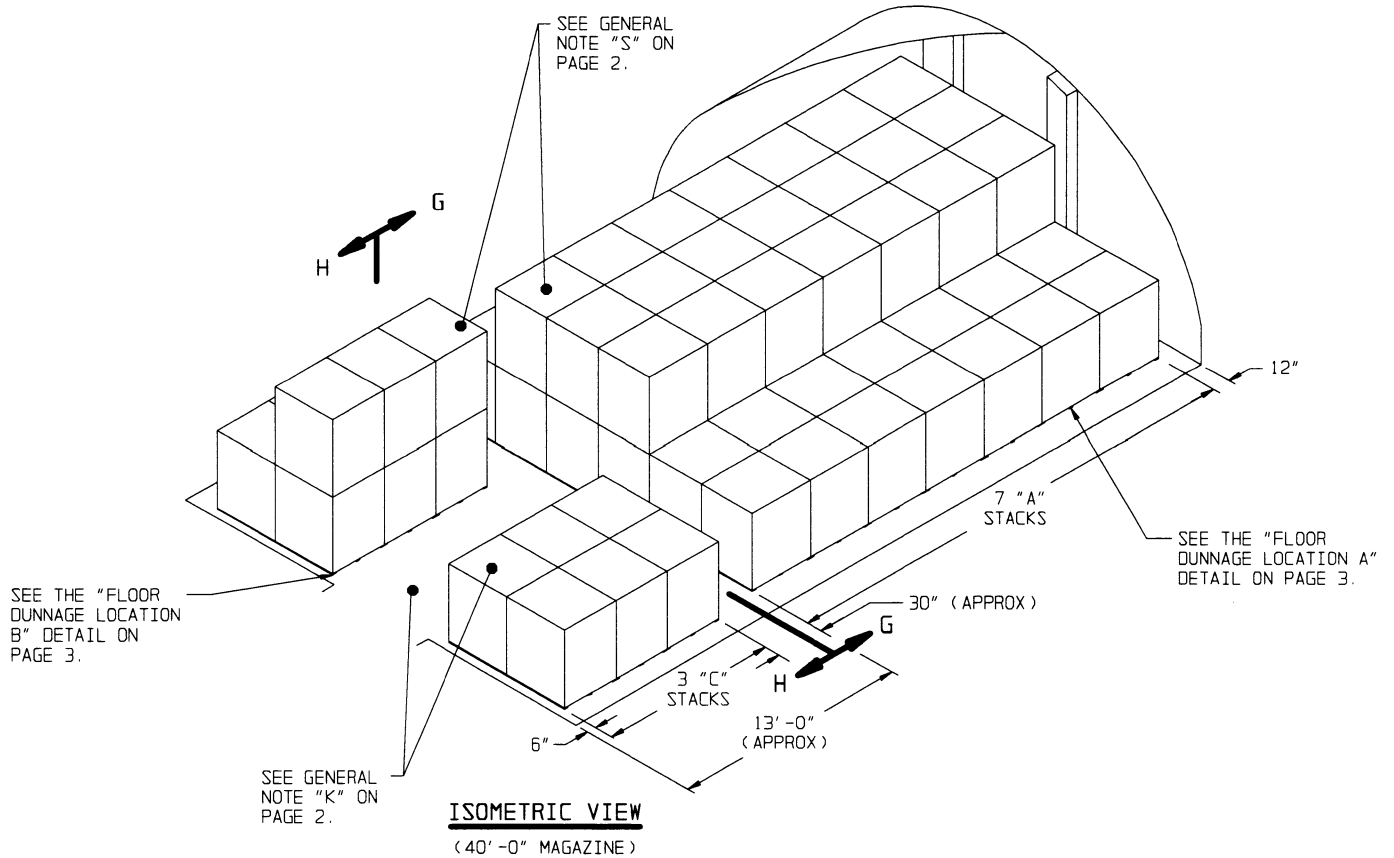
FLOOR DUNNAGE, 1" X 6" X 44"
(12 REOD PER STACK). SEE LOCATION "B" DETAIL ON PAGE 3.
("C" STACK, 5 PALLET UNITS)

INDICATES OUTLINE OF DOOR OPENING.

STORAGE IN 40'-0" MAGAZINE

(11'-0" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - - -	78
PA116 CONTAINERS - - - - -	2,340



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

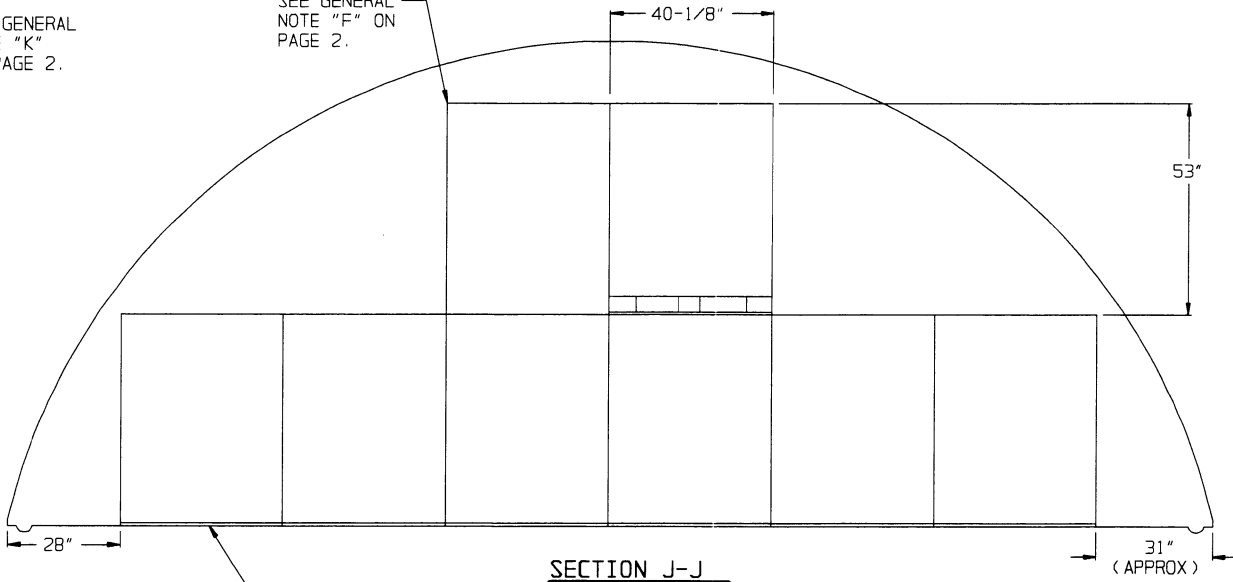
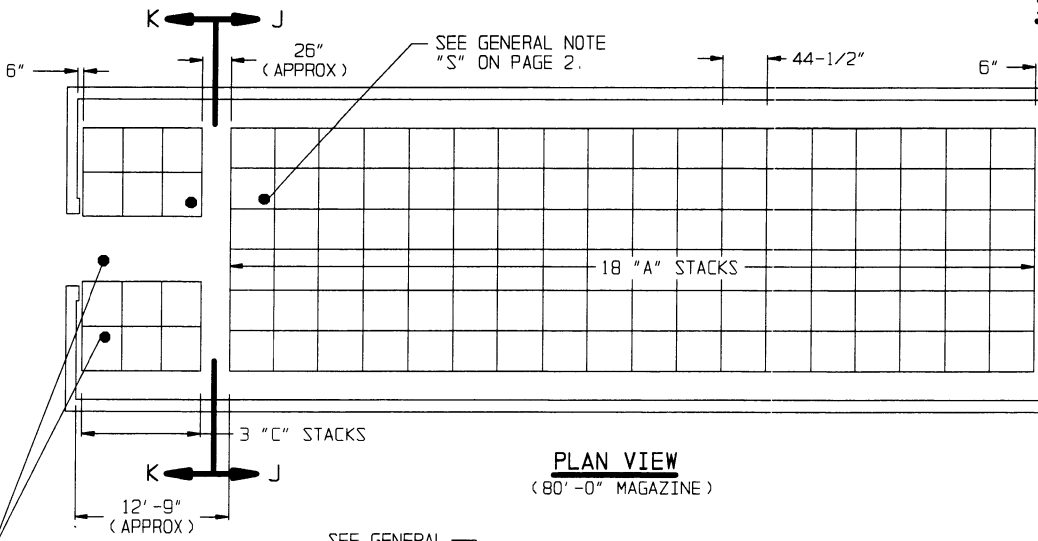
BILL OF MATERIAL (PER STACK) *		
TYPE STACK	1" X 6" DUNNAGE LUMBER	
	LINEAR FEET	BOARD FEET
A	60	30
C	44	22

* SEE GENERAL NOTE "L" ON PAGE 2.

STORAGE IN 80'-0" MAGAZINE

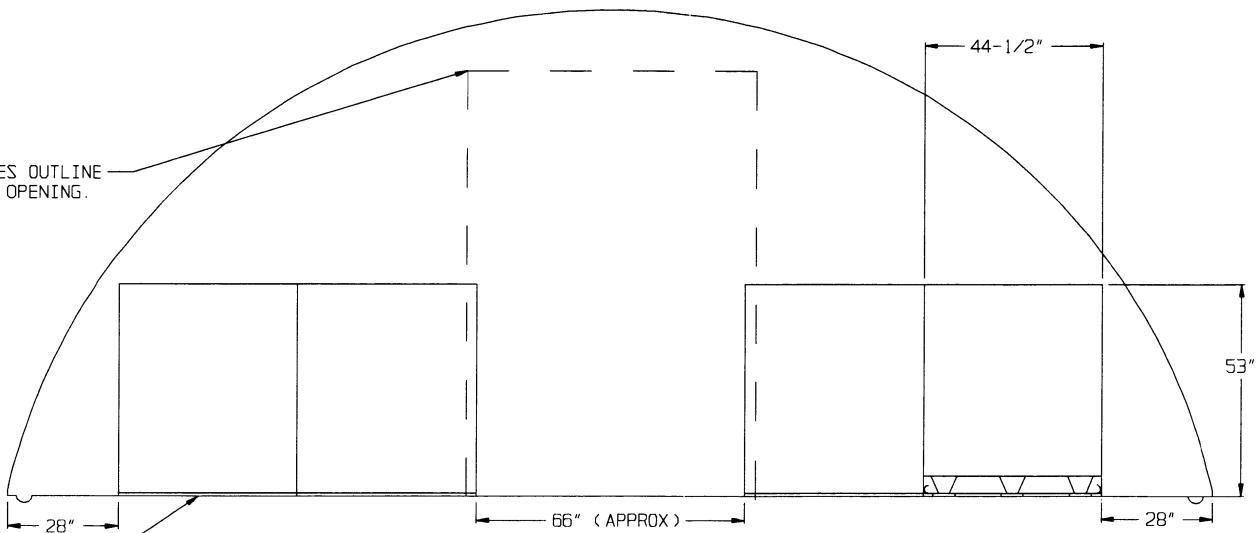
(10'-0" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - -	156
PA116 CONTAINERS - - -	4,680



FLOOR DUNNAGE, 1" X 6" X 40"
(18 REOD PER STACK). SEE
LOCATION "A" DETAIL ON PAGE 3.

INDICATES OUTLINE
OF DOOR OPENING.

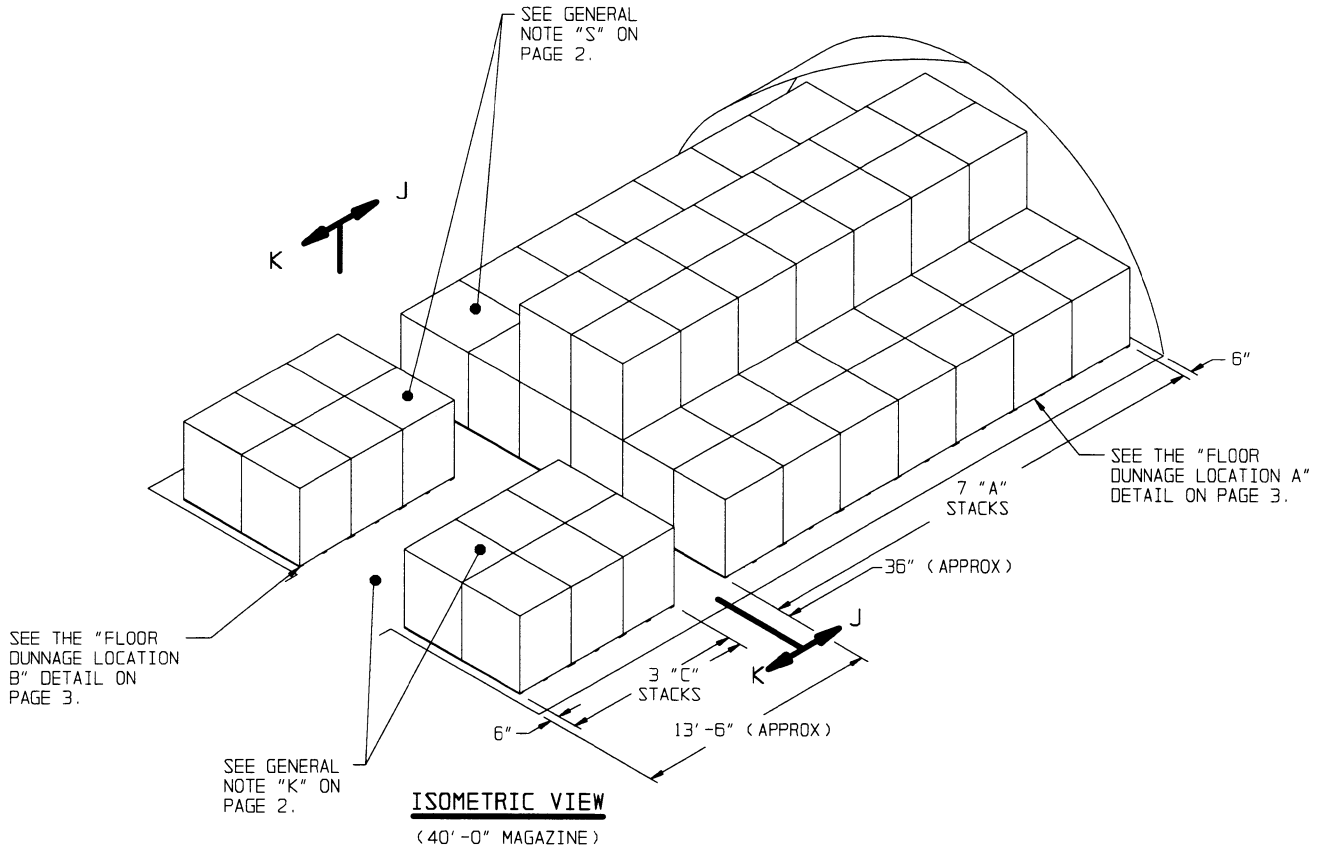


FLOOR DUNNAGE, 1' X 6" X 44"
(12 REOD PER STACK). SEE
LOCATION "B" DETAIL ON PAGE 3.

STORAGE IN 40'-0" MAGAZINE

(10'-0" HIGH)

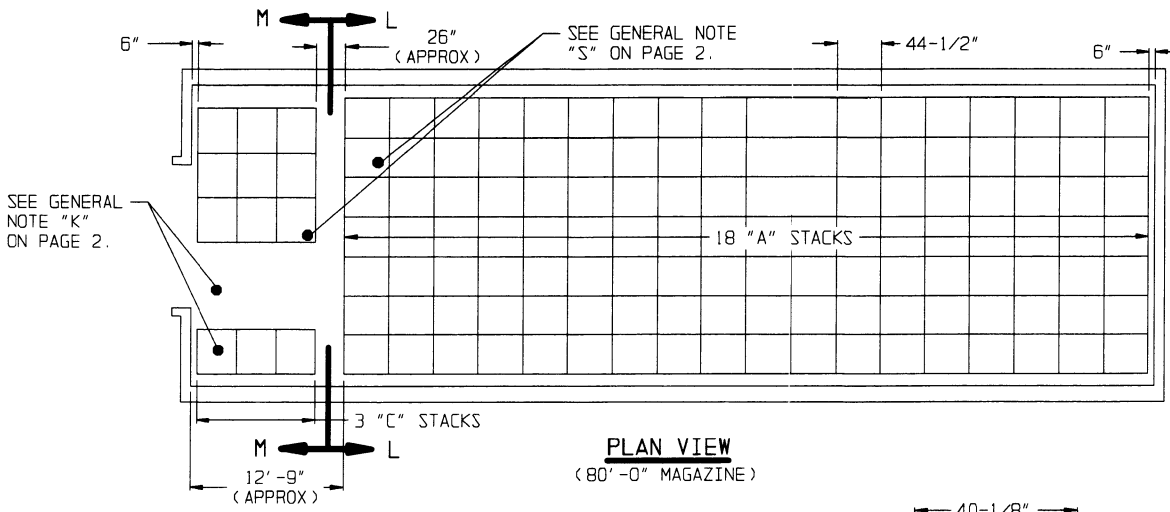
ITEM	QUANTITY
PALLET UNITS - - - - -	68
PA116 CONTAINERS - - - - -	2,040



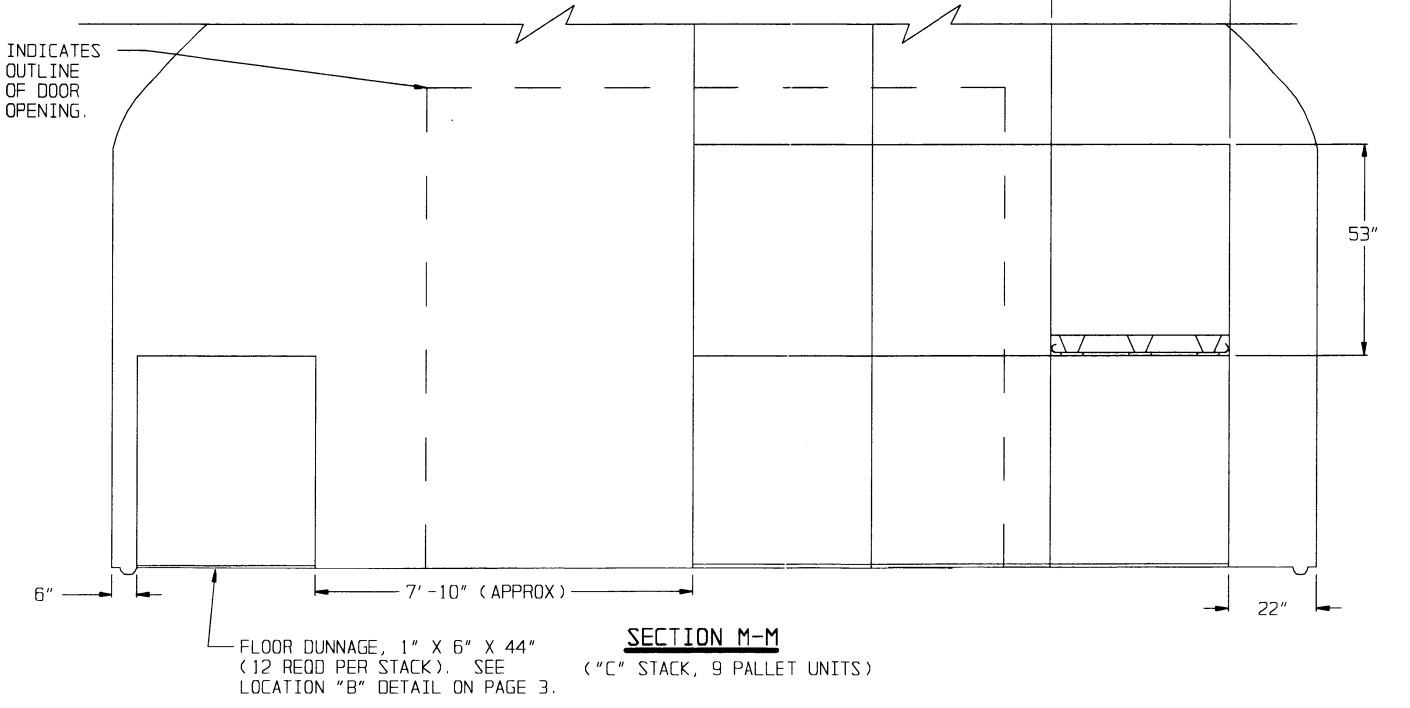
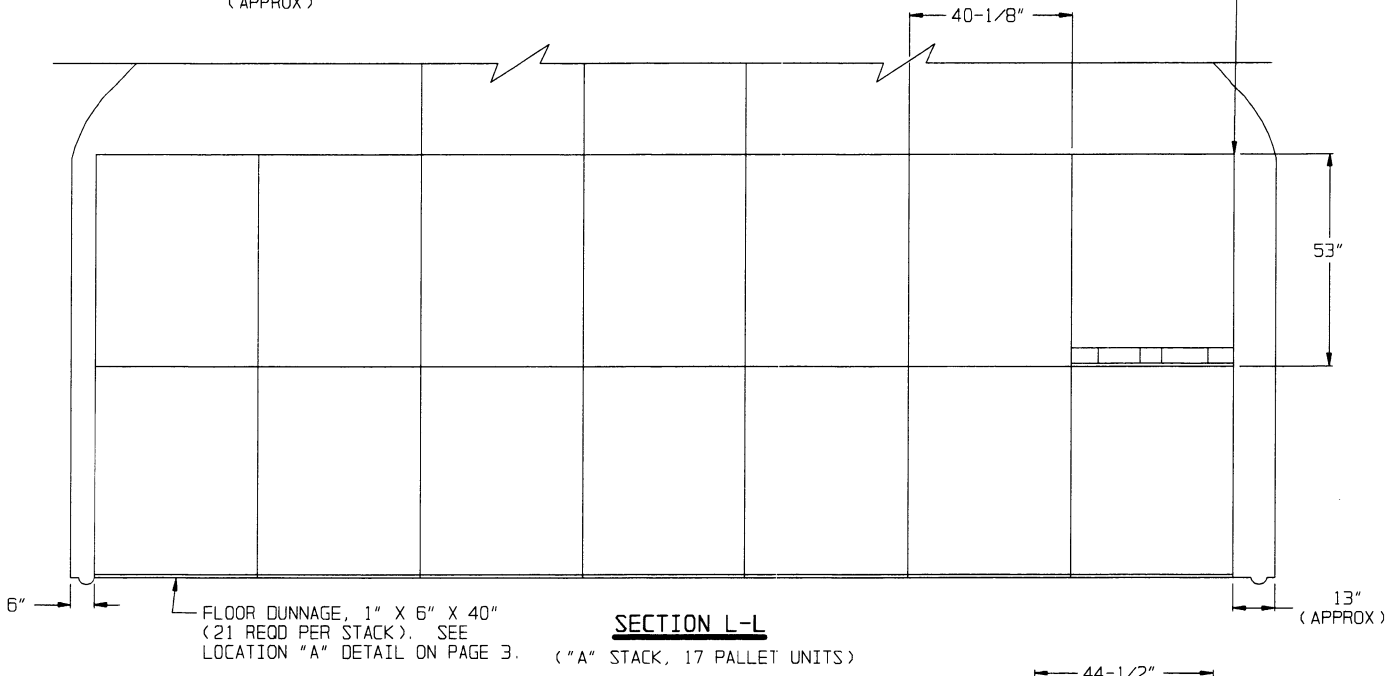
FOR "GENERAL NOTES", AND "MATERIAL SPECIFICATIONS" SEE PAGE 2.

BILL OF MATERIAL (PER STACK) *		
TYPE STACK	1" X 6" DUNNAGE LUMBER	
	LINEAR FEET	BOARD FEET
A	60	30
C	44	22

* SEE GENERAL NOTE "L" ON PAGE 2.



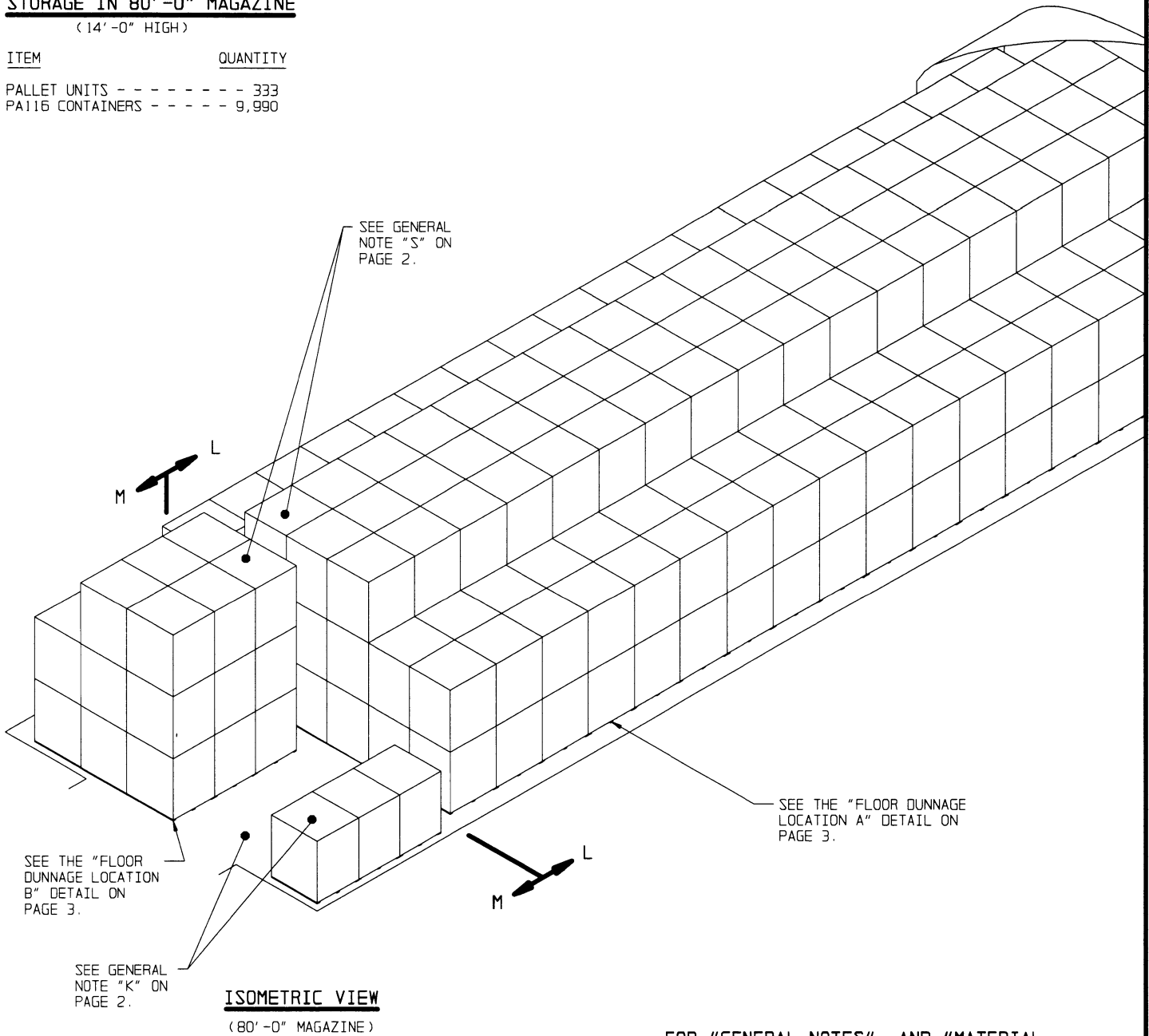
SEE GENERAL NOTE "F" ON PAGE 2.



STORAGE IN 80'-0" MAGAZINE

(14'-0" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - - -	333
PA116 CONTAINERS - - - - -	9,990

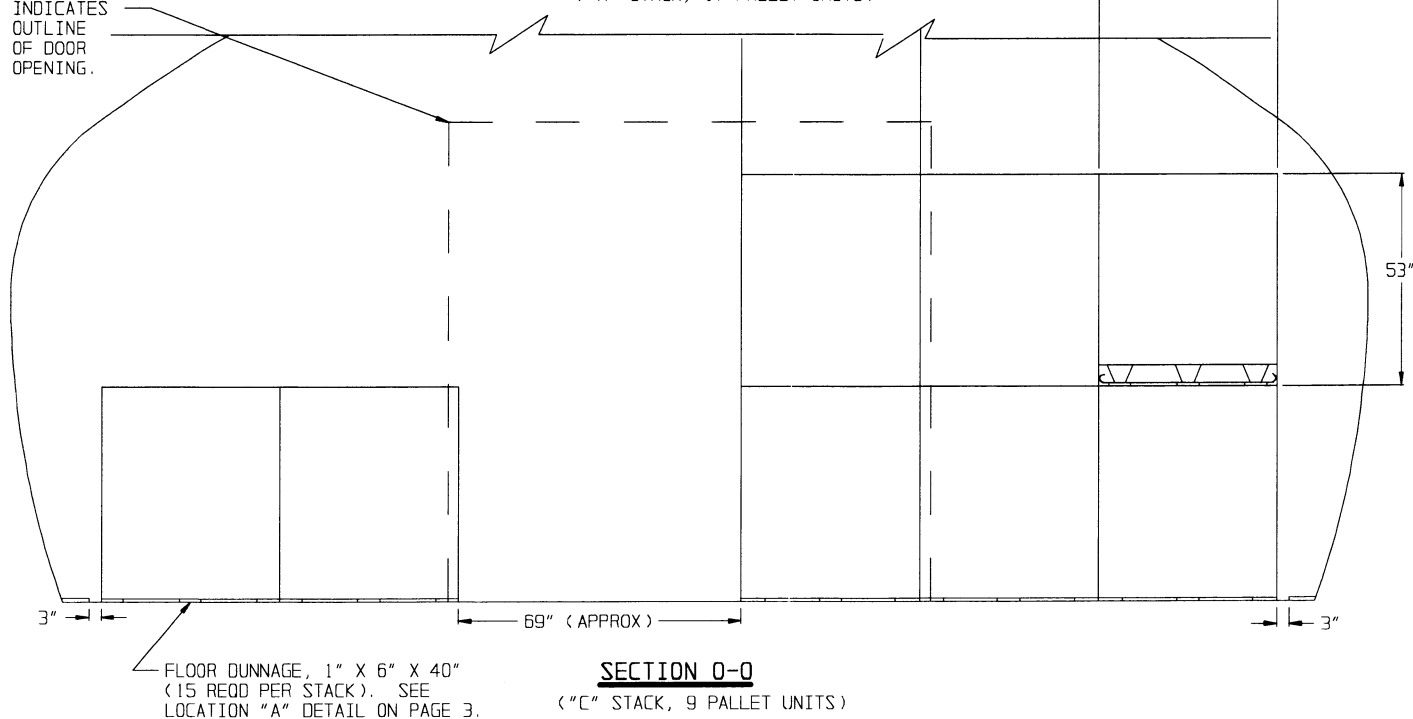
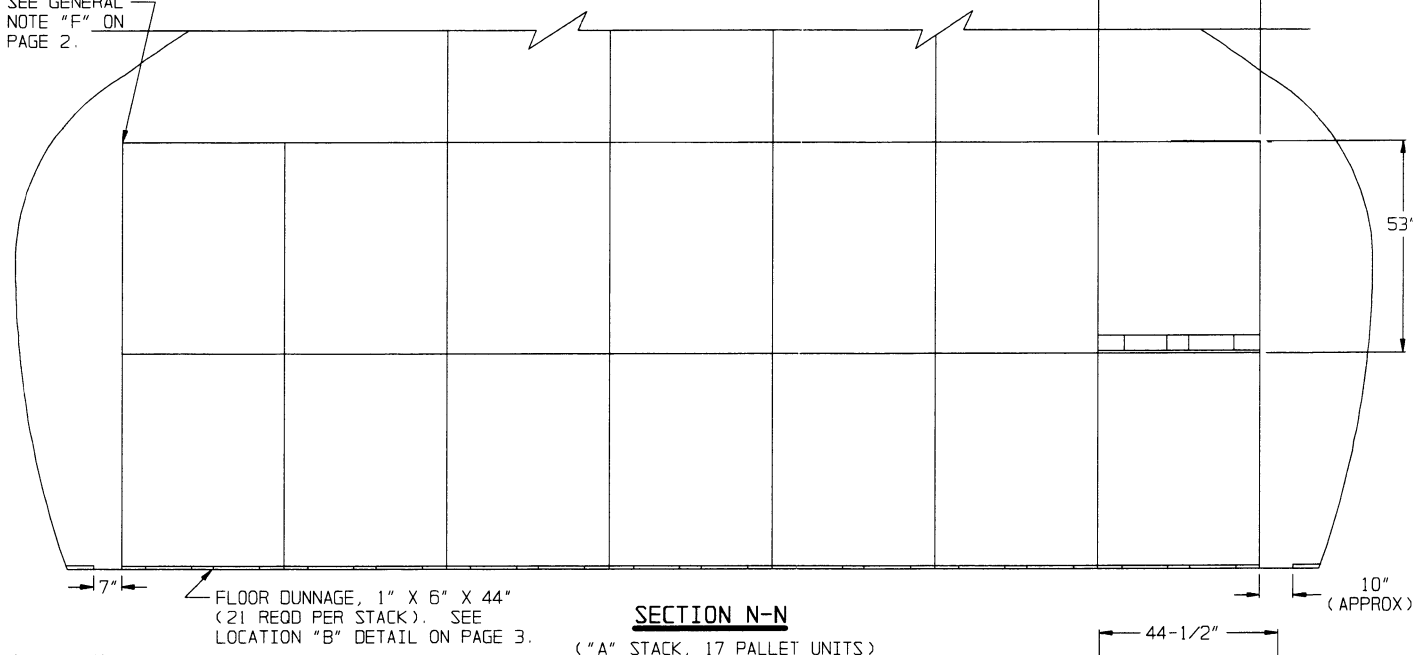
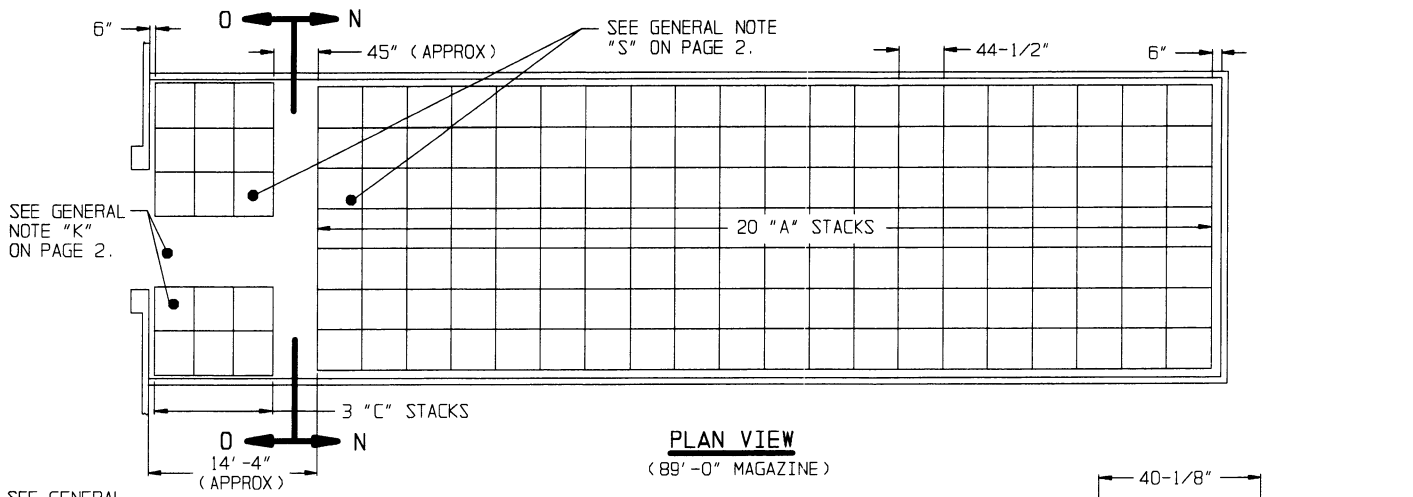


ISOMETRIC VIEW
(80'-0" MAGAZINE)

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

BILL OF MATERIAL (PER STACK) *		
TYPE STACK	1" X 6" DUNNAGE LUMBER	
	LINEAR FEET	BOARD FEET
A	70	35
C	44	22

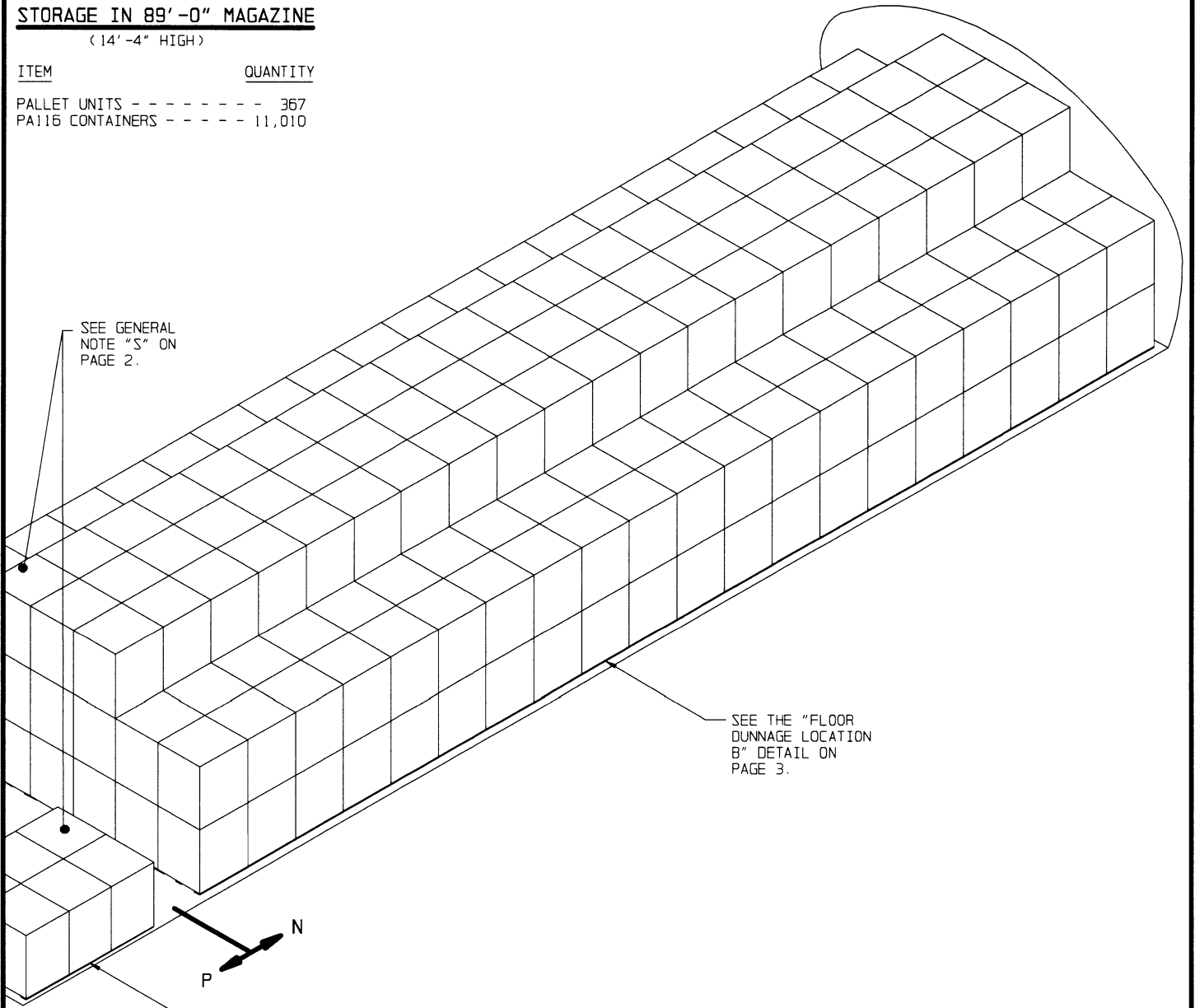
* SEE GENERAL NOTE "L" ON PAGE 2.



STORAGE IN 89'-0" MAGAZINE

(14'-4" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - - -	367
PA116 CONTAINERS - - - - -	11,010



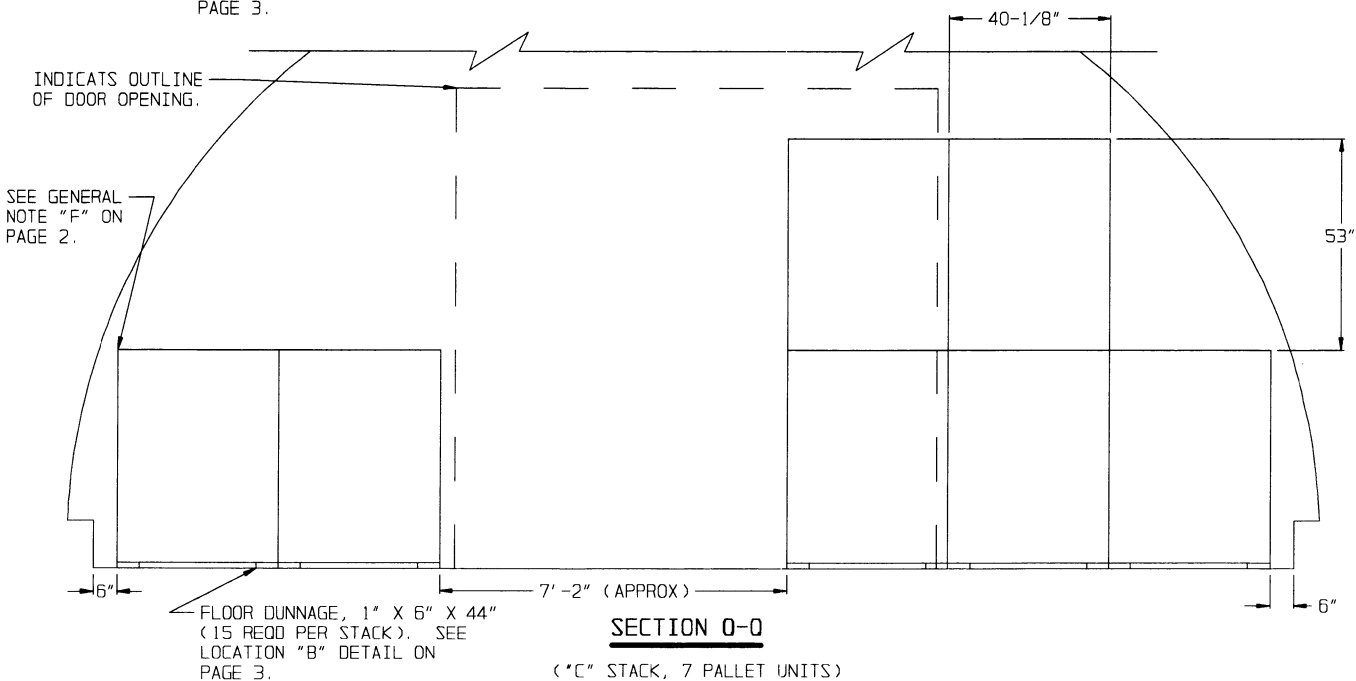
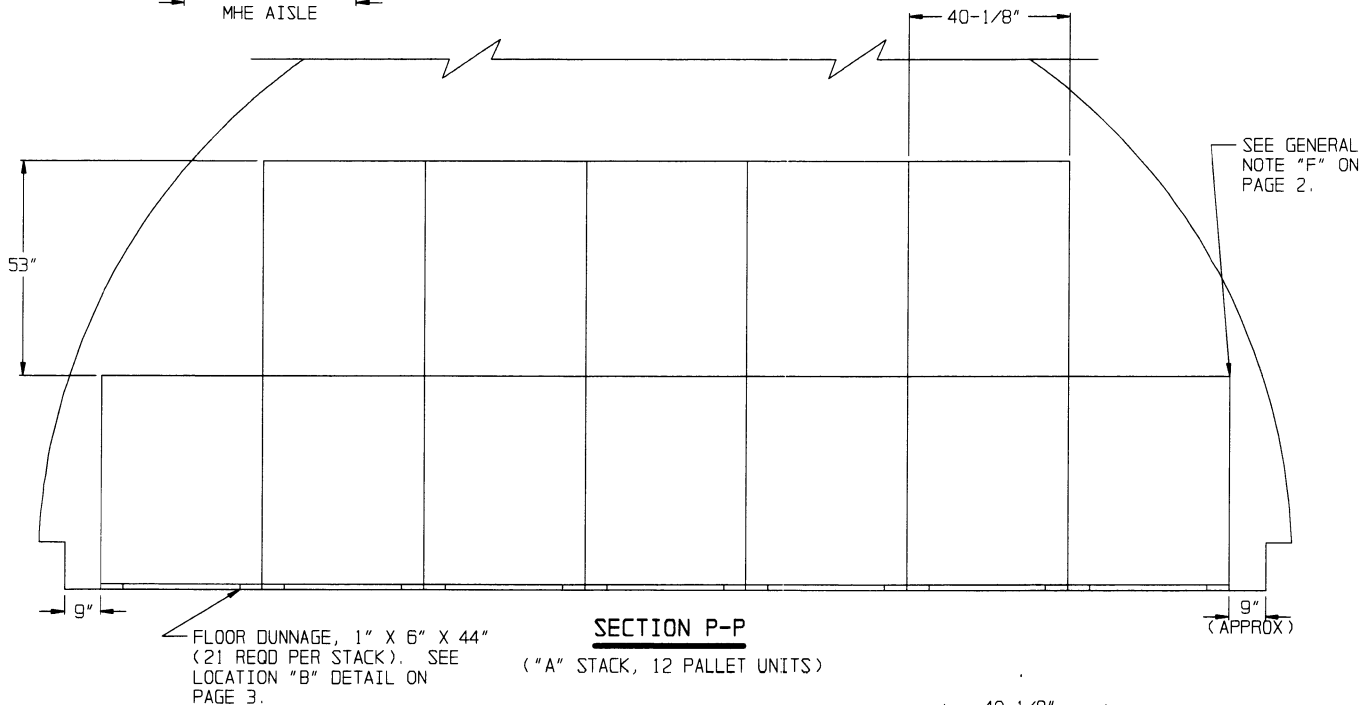
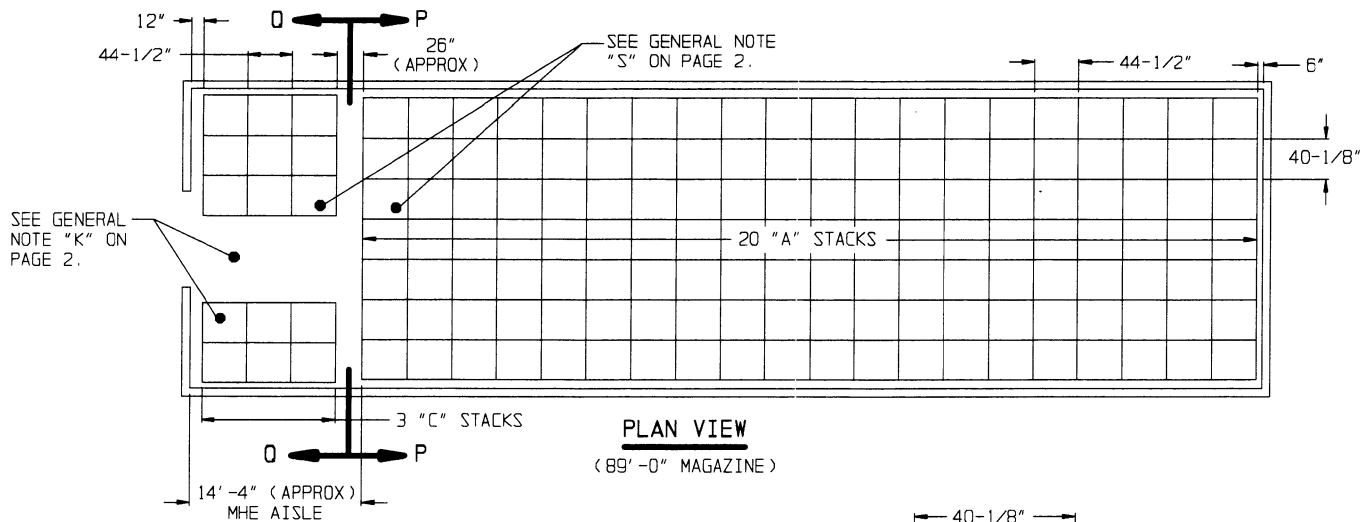
ISOMETRIC VIEW
(89'-0" MAGAZINE)

SEE THE "FLOOR DUNNAGE LOCATION A" DETAIL ON PAGE 3.

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

BILL OF MATERIAL (PER STACK) *		
TYPE STACK	1" X 6" DUNNAGE LUMBER	
	LINEAR FEET	BOARD FEET
A	78	39
C	50	25

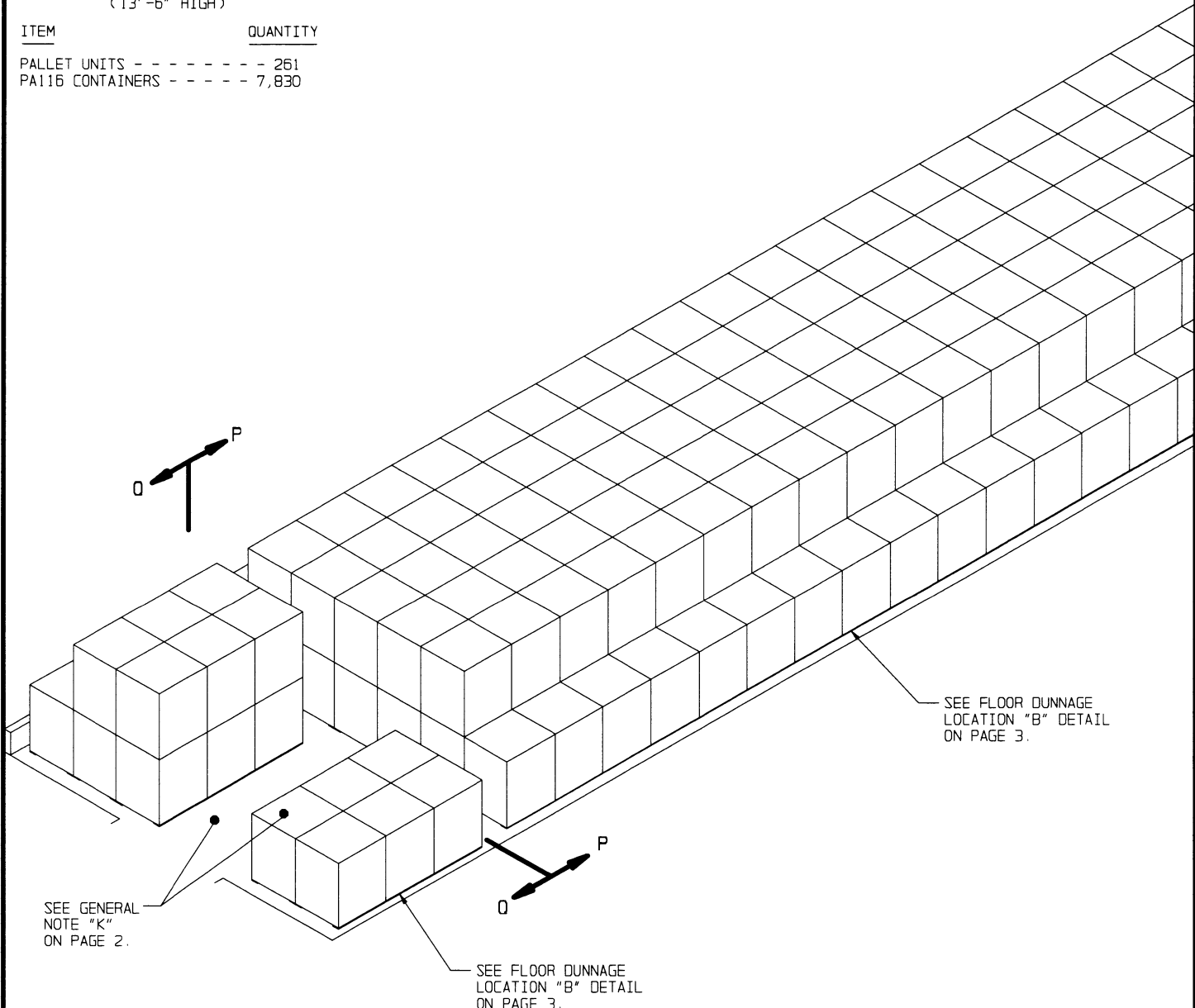
* SEE GENERAL NOTE "L" ON PAGE 2.



STORAGE IN 89'-0" MAGAZINE

(13'-6" HIGH)

ITEM	QUANTITY
PALLET UNITS - - - - -	261
PA116 CONTAINERS - - - - -	7,830



ISOMETRIC VIEW

(89'-0" MAGAZINE)

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

BILL OF MATERIAL (PER STACK) *		
TYPE STACK	1" X 6" DUNNAGE LUMBER	
	LINEAR FEET	BOARD FEET
A	78	39
C	56	28

* SEE GENERAL NOTE "L" ON PAGE 2.

STORAGE IN 52'-0" DIA MAGAZINE

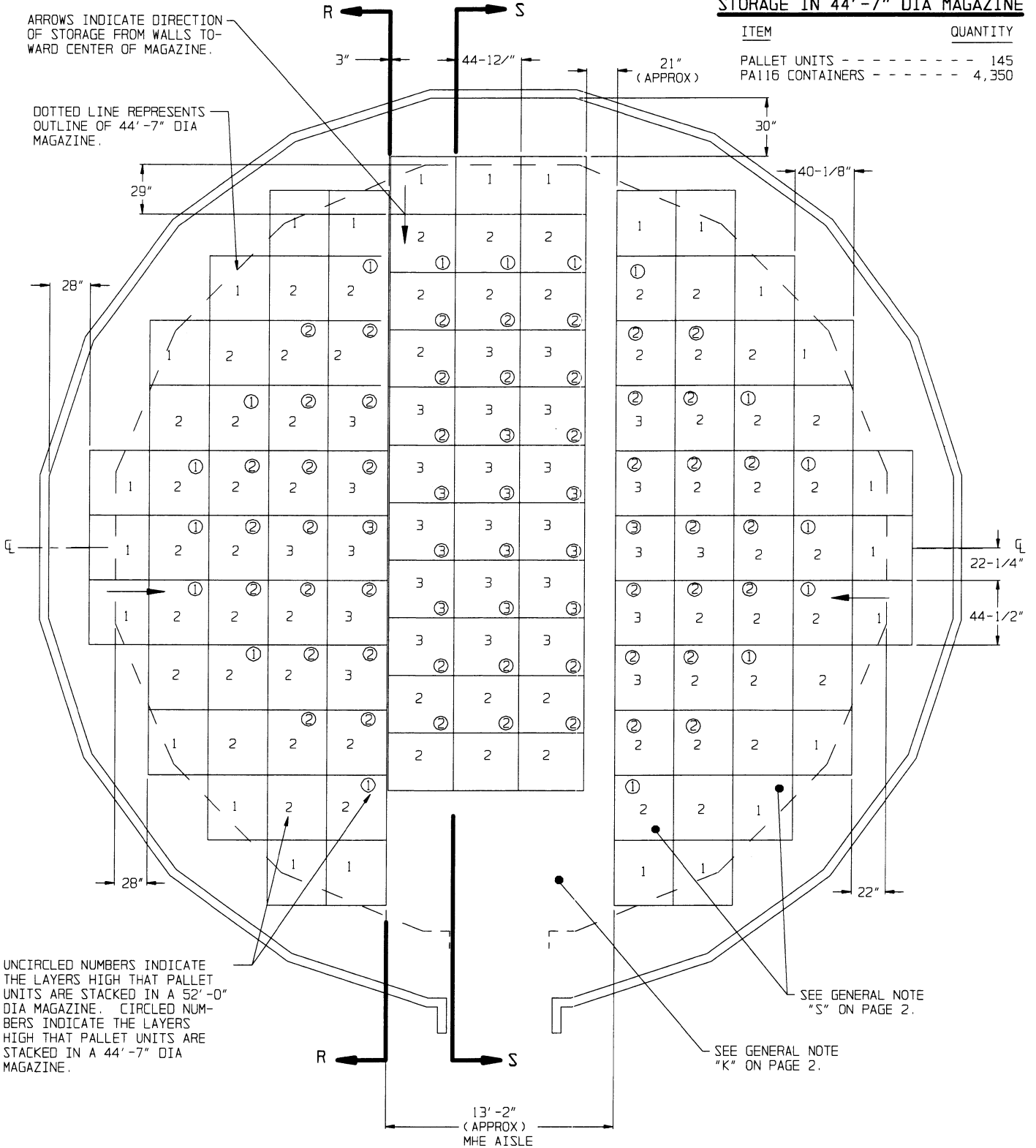
ITEM	QUANTITY
PALLET UNITS - - - - -	234
PA116 CONTAINERS - - - - -	7,020

STORAGE IN 44'-7" DIA MAGAZINE

ITEM	QUANTITY
PALLET UNITS - - - - -	145
PA116 CONTAINERS - - - - -	4,350

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

DOTTED LINE REPRESENTS OUTLINE OF 44'-7" DIA MAGAZINE.



UNCIRCLED NUMBERS INDICATE THE LAYERS HIGH THAT PALLET UNITS ARE STACKED IN A 52'-0" DIA MAGAZINE. CIRCLED NUMBERS INDICATE THE LAYERS HIGH THAT PALLET UNITS ARE STACKED IN A 44'-7" DIA MAGAZINE.

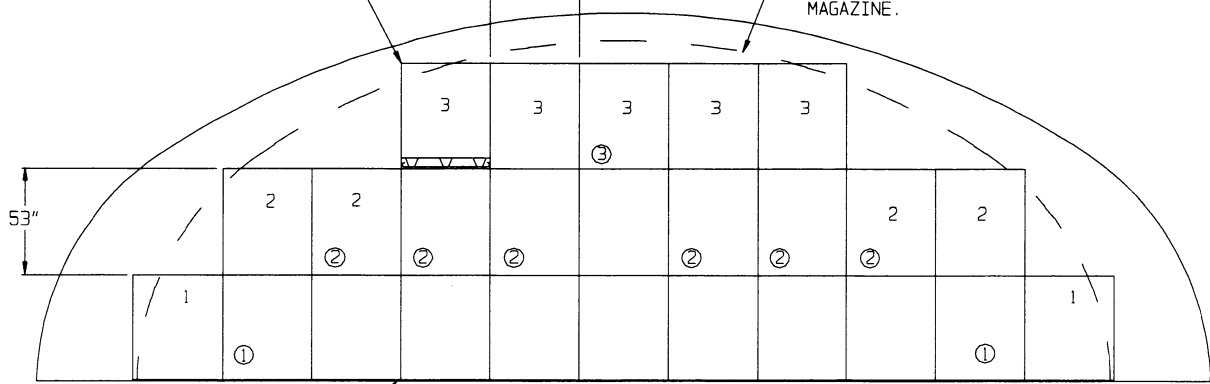
PLAN VIEW

(52'-0" DIA MAGAZINE)

SEE GENERAL NOTE "F" ON PAGE 2.

44'-1/2"

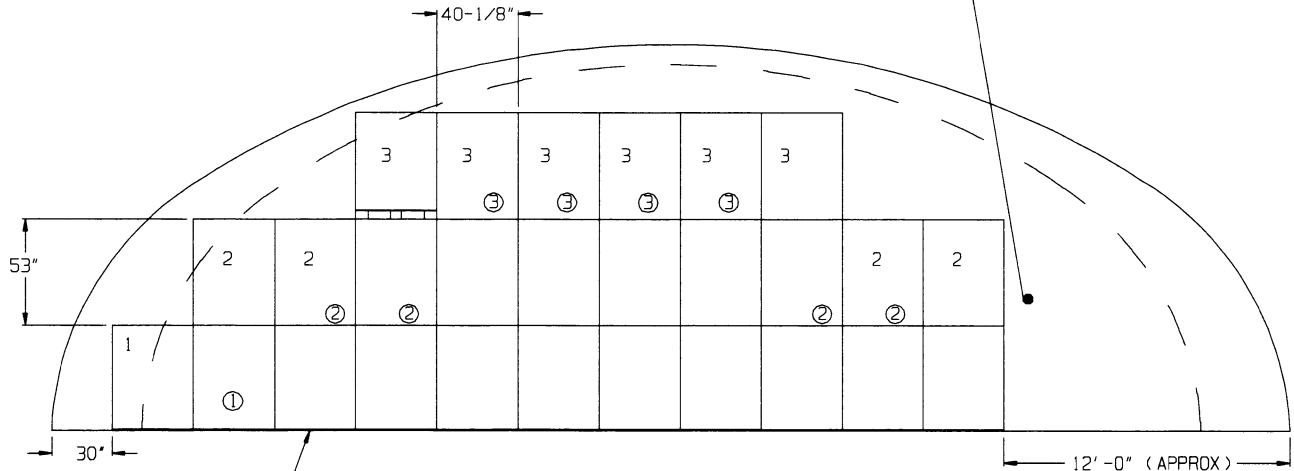
DOTTED LINE REPRESENTS
OUTLINE OF 44'-7" DIA
MAGAZINE.



FLOOR DUNNAGE, 1" X 6"
X 40" (3 REED PER PALLET
STACK). SEE THE "FLOOR
DUNNAGE LOCATION A" DE-
TAIL ON PAGE 3.

SECTION R-R

ONLY ONE OF THE ROWS OF PALLETS IS
SHOWN IN THIS SECTION. UNITS LOCA-
TED IN ADJACENT ROWS OR STACKS HAVE
BEEN OMITTED FOR CLARITY PURPOSES.



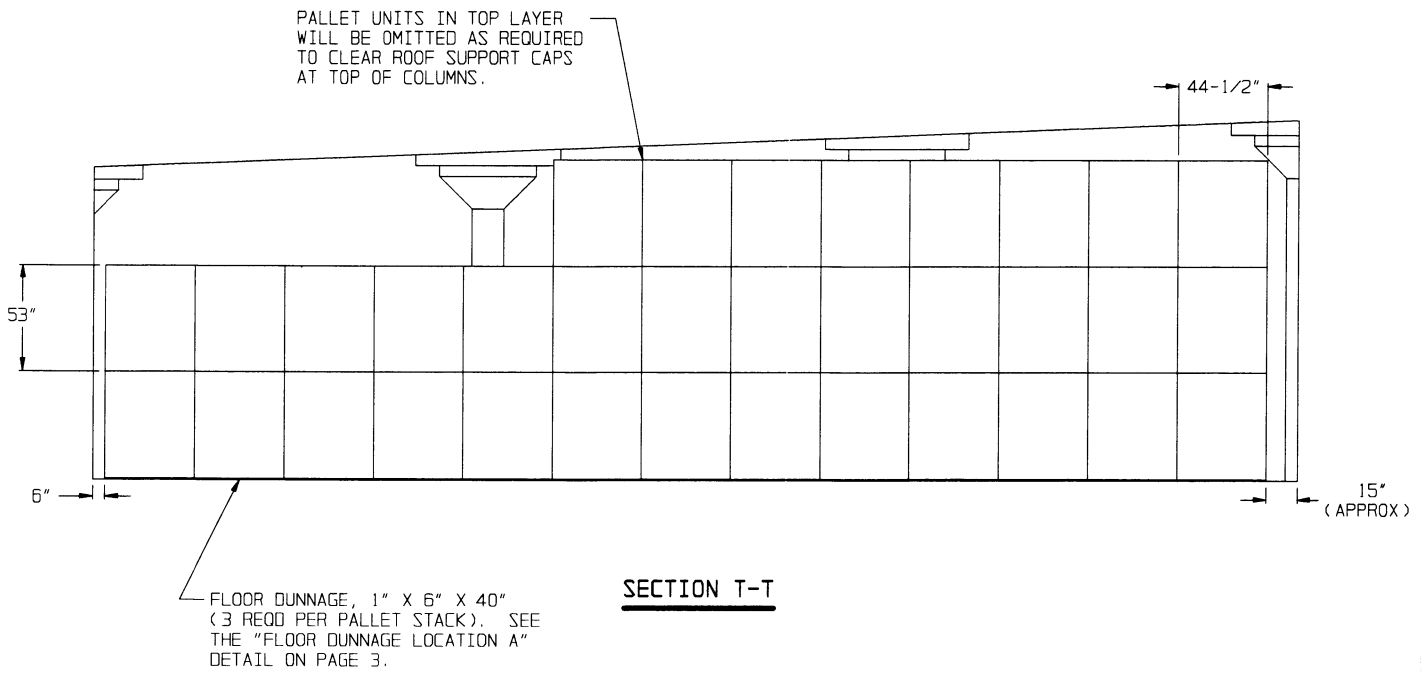
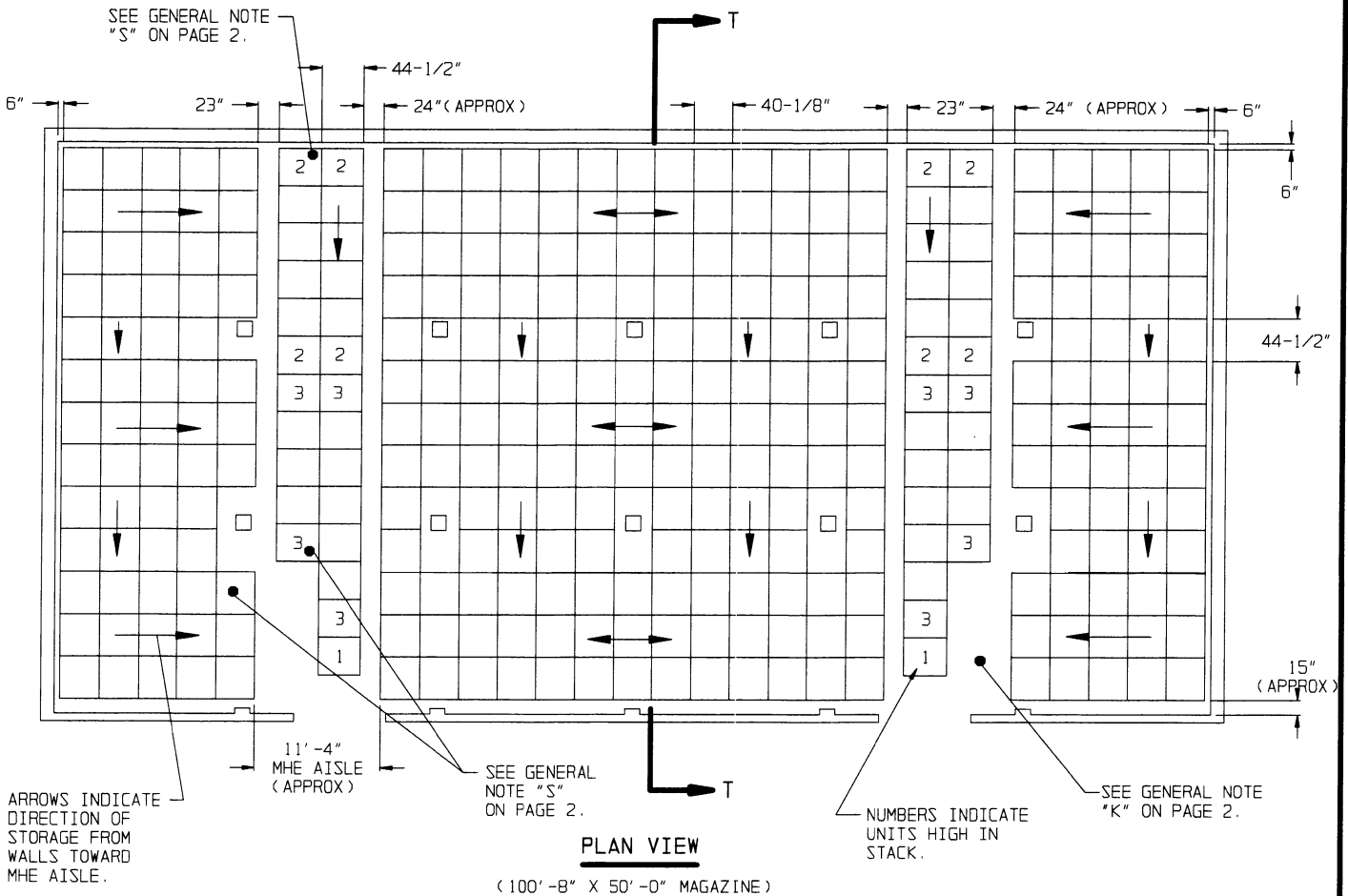
FLOOR DUNNAGE, 1" X 6" X
44" (3 REED PER PALLET
STACK). SEE THE "FLOOR
DUNNAGE LOCATION B" DE-
TAIL ON PAGE 3.

SECTION S-S

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

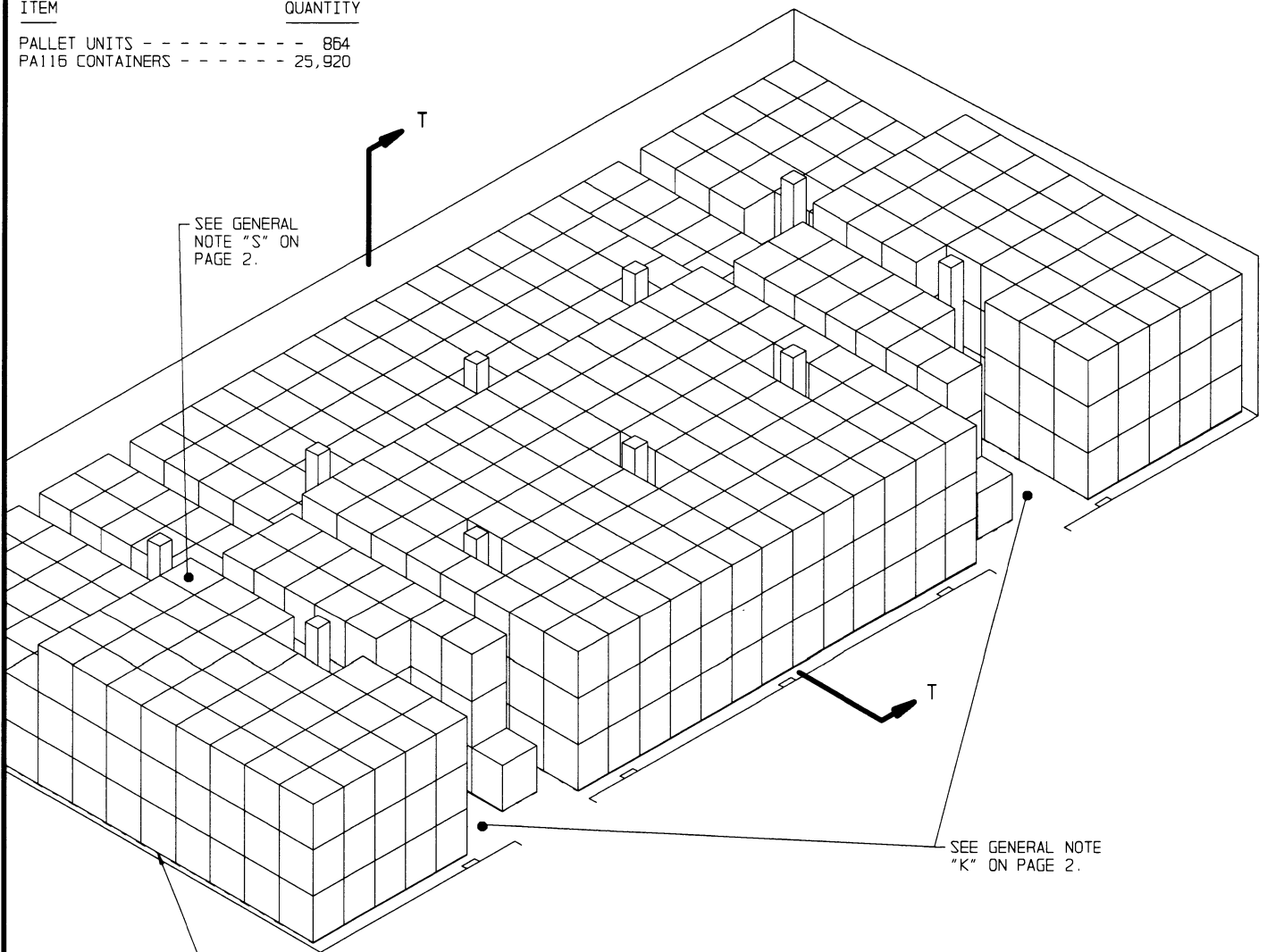
BILL OF MATERIAL (PER FIRST LAYER PALLET UNIT)*		
LUMBER	LINEAR FEET	BOARD FEET
1" X 6"	10	5

* SEE GENERAL NOTE "L" ON PAGE 2.



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

ITEM	QUANTITY
PALLET UNITS - - - - -	864
PA116 CONTAINERS - - - - -	25,920



SEE THE "FLOOR DUNNAGE LOCATION A" DETAIL ON PAGE 3.

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

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

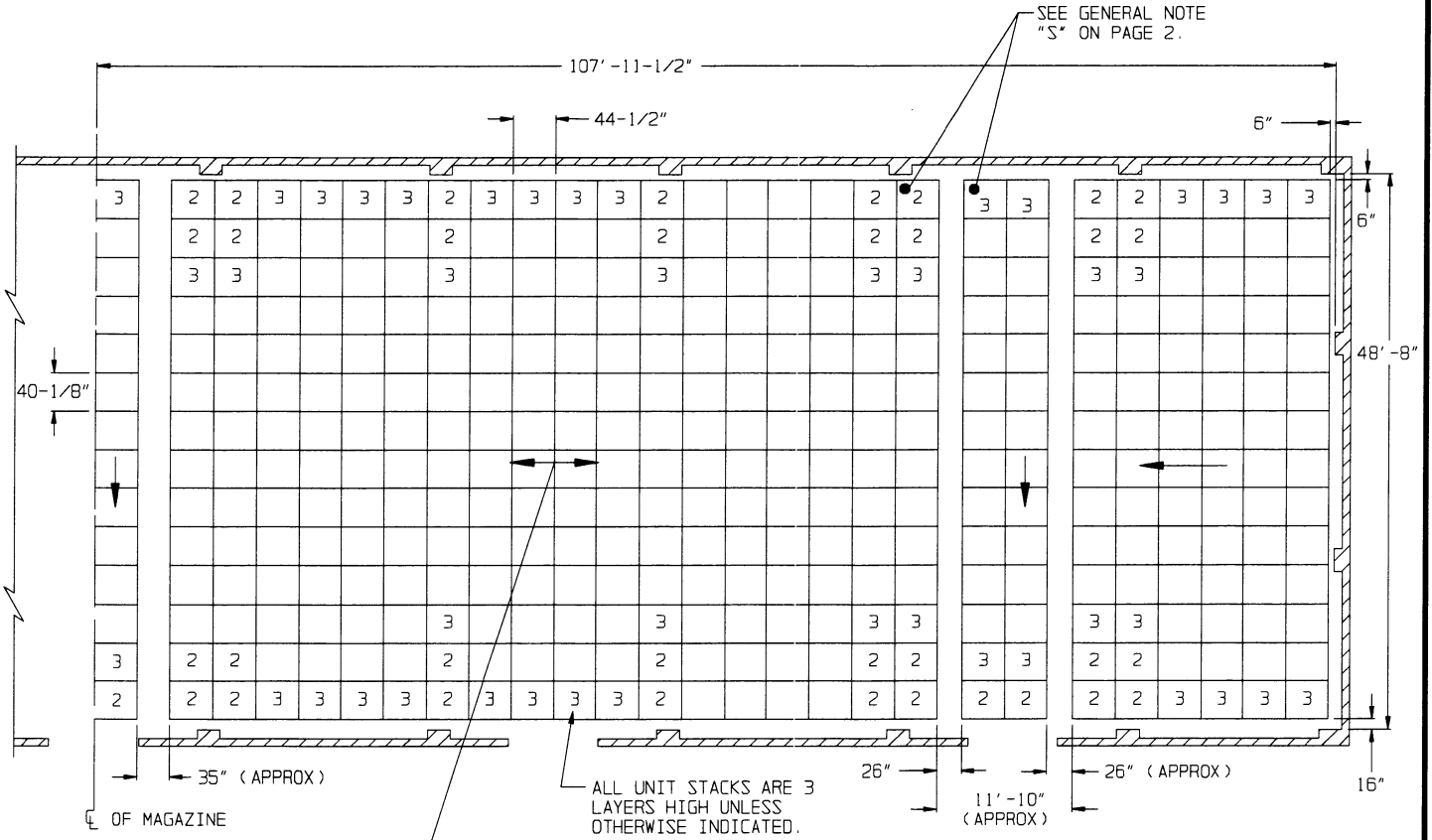
SPECIAL NOTE:

1. IF THE QUANTITY FOR A MAGAZINE IS TO BE REDUCED FROM WHAT IS SHOWN DUE TO THE PERMITTED "EXPLOSIVE LIMIT" OF 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.

BILL OF MATERIAL (PER FIRST LAYER PALLET UNIT)*		
LUMBER	LINEAR FEET	BOARD FEET
1" X 6"	10	5

* SEE GENERAL NOTE "L" ON PAGE 2.

SEE GENERAL NOTE
"S" ON PAGE 2.



PLAN VIEW

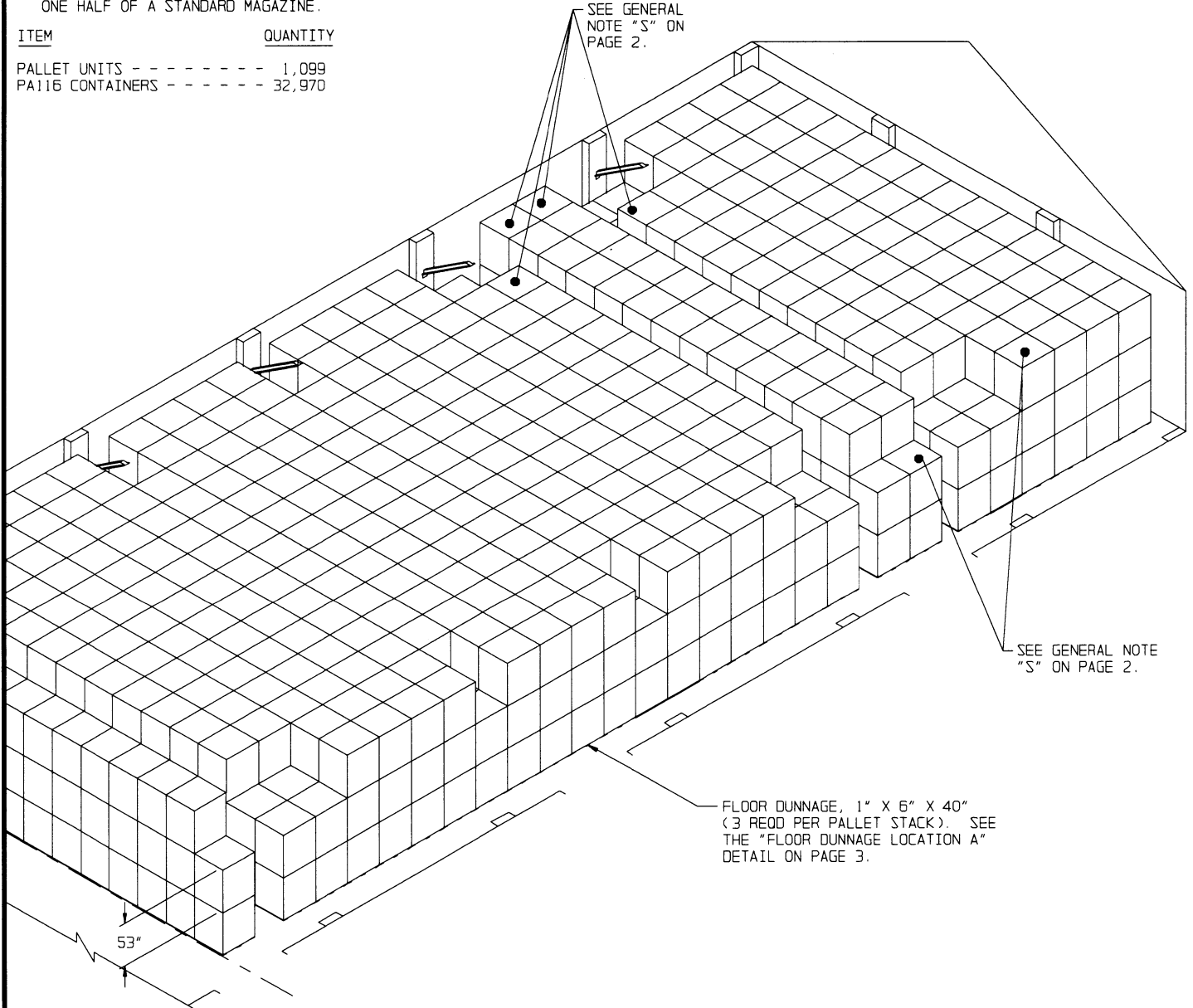
ARROWS INDICATE DIRECTION
OF STORAGE FROM WALLS
TOWARD MHE AISLE.

ONE HALF OF A STANDARD MAGAZINE SHOWN.

STORAGE AS SHOWN

ONE HALF OF A STANDARD MAGAZINE.

ITEM	QUANTITY
PALLET UNITS - - - - -	1,099
PA116 CONTAINERS - - - - -	32,970



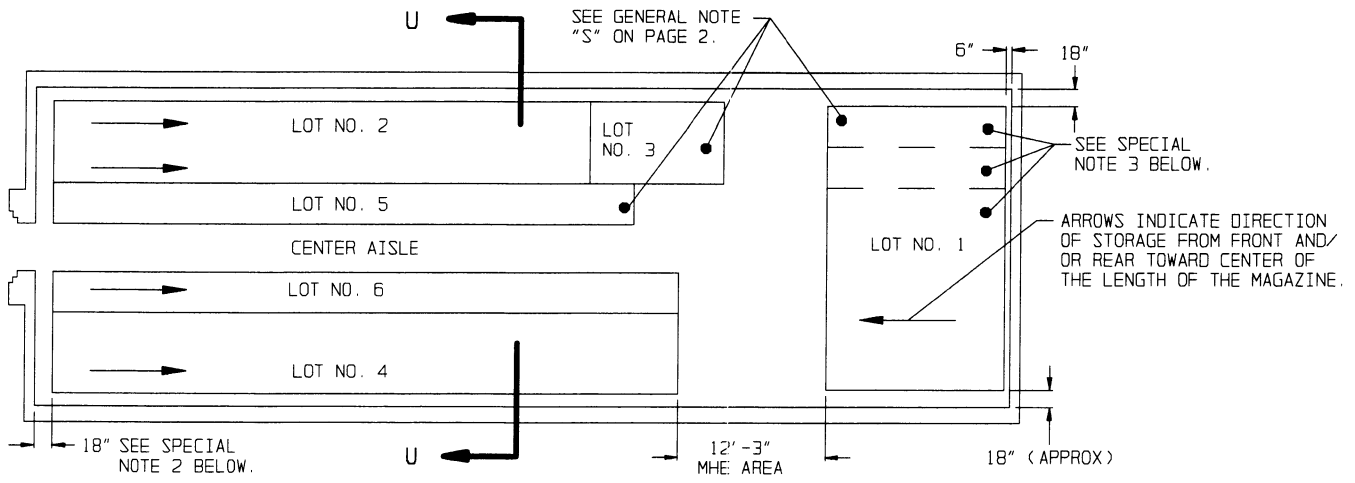
ISOMETRIC VIEW

(ONE-HALF OF A STANDARD MAGAZINE SHOWN)

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

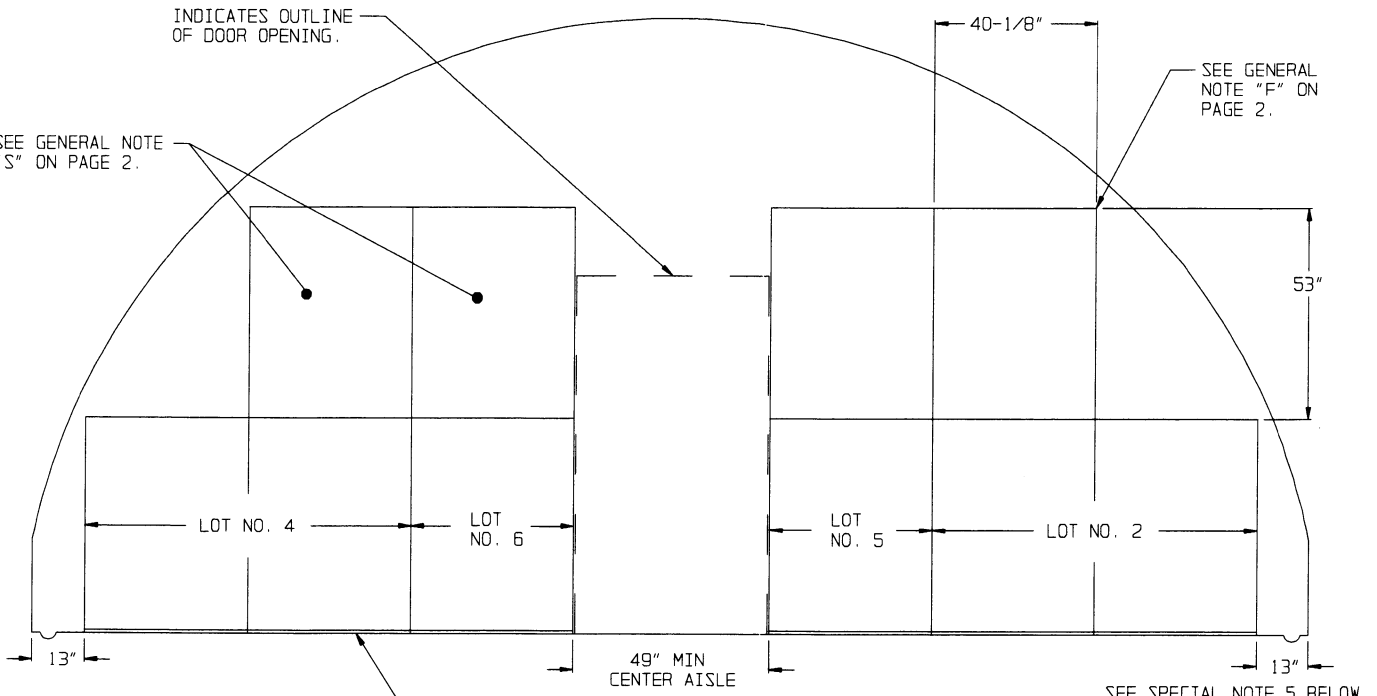
BILL OF MATERIAL (PER FIRST LAYER PALLET UNIT)*		
LUMBER	LINEAR FEET	BOARD FEET
1" X 6"	10	5

* SEE GENERAL NOTE "L" ON PAGE 2.



PLAN VIEW

(81'-0" IGLOO SHOWN)



SECTION U-U

FLOOR DUNNAGE, 1" X 6" X 40"
(3 REOD PER PALLET STACK).
SEE THE "FLOOR DUNNAGE LOCA-
TION A" DETAIL ON PAGE 3.

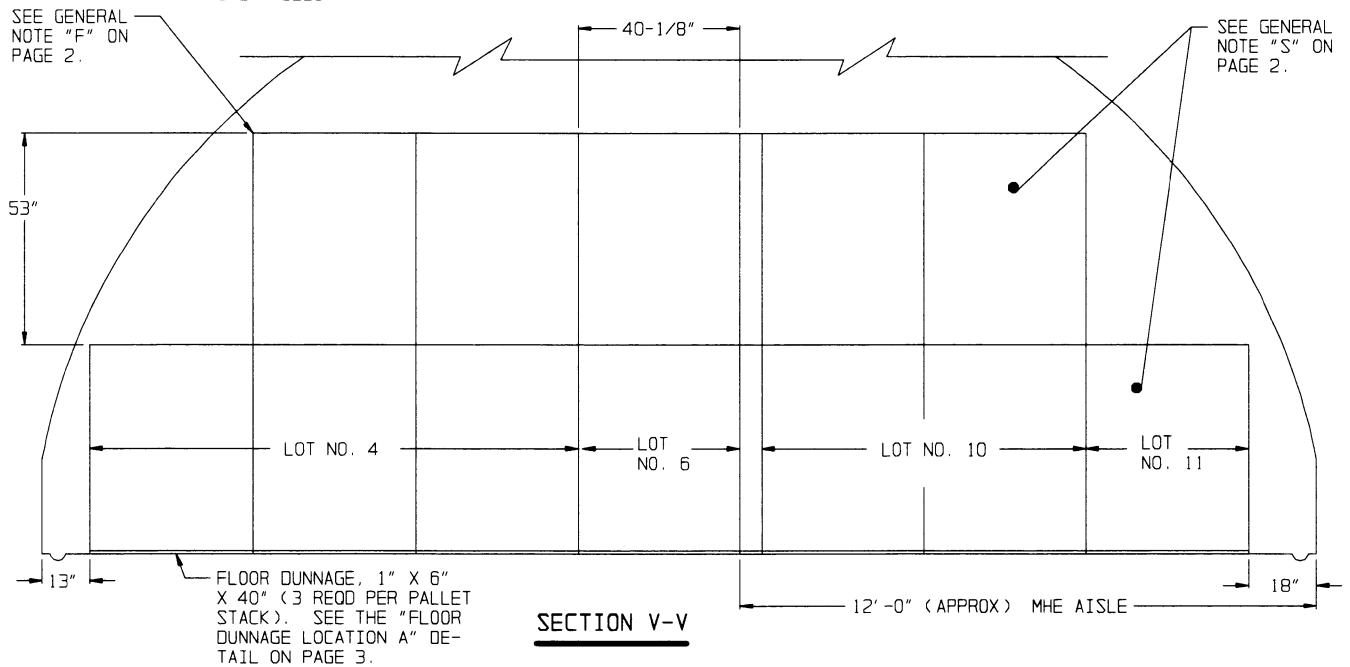
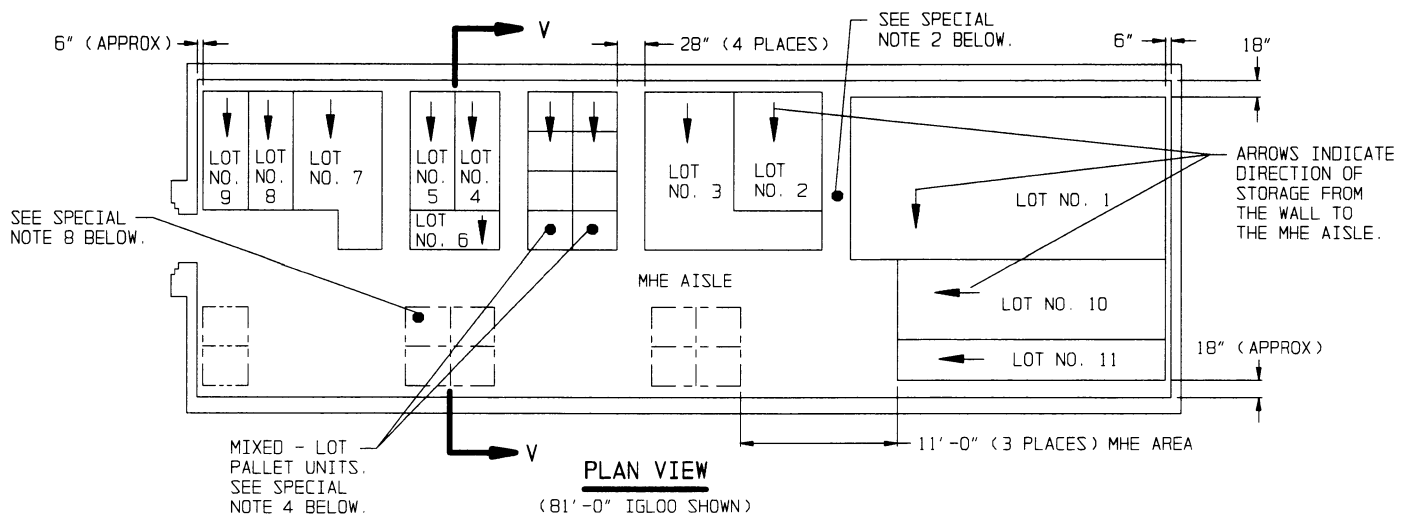
SPECIAL NOTES:

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.

(CONTINUED AT RIGHT)

(SPECIAL NOTES CONTINUED)

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. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF THE MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
5. FOR STORAGE OF MULTIPLE-LOTS, THE DISTANCE FROM THE SIDE WALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR THE MHE.
6. 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:

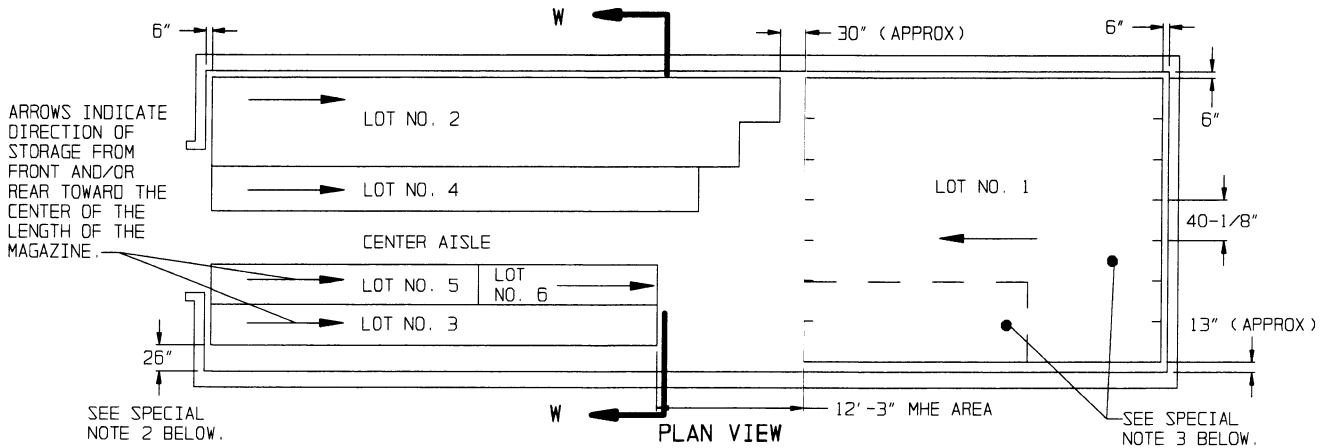
1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY AND APPLY TO STORAGE OF NUMEROUS SMALL LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 18" MUST BE PROVIDED AT ONE SIDE OF EACH "BURIED" 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. A MIXED-LOT PALLET UNIT MAY HAVE FROM TWO LOTS PER PALLET UNIT UPWARD TO AS MANY DIFFERENT LOTS AS COMPLETE ROUNDS WITHIN THAT UNIT. HOWEVER, ALL COMPLETE ROUNDS AND LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.
5. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. PALLET UNITS OF A SINGLE-LOT OR MIXED-LOT PALLET UNITS ARE CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THE SINGLE-LOT OR MIXED-LOT UNITS. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF THE MHE PERMITS AND SAFE HANDLING IS NOT JEOPARDIZED.

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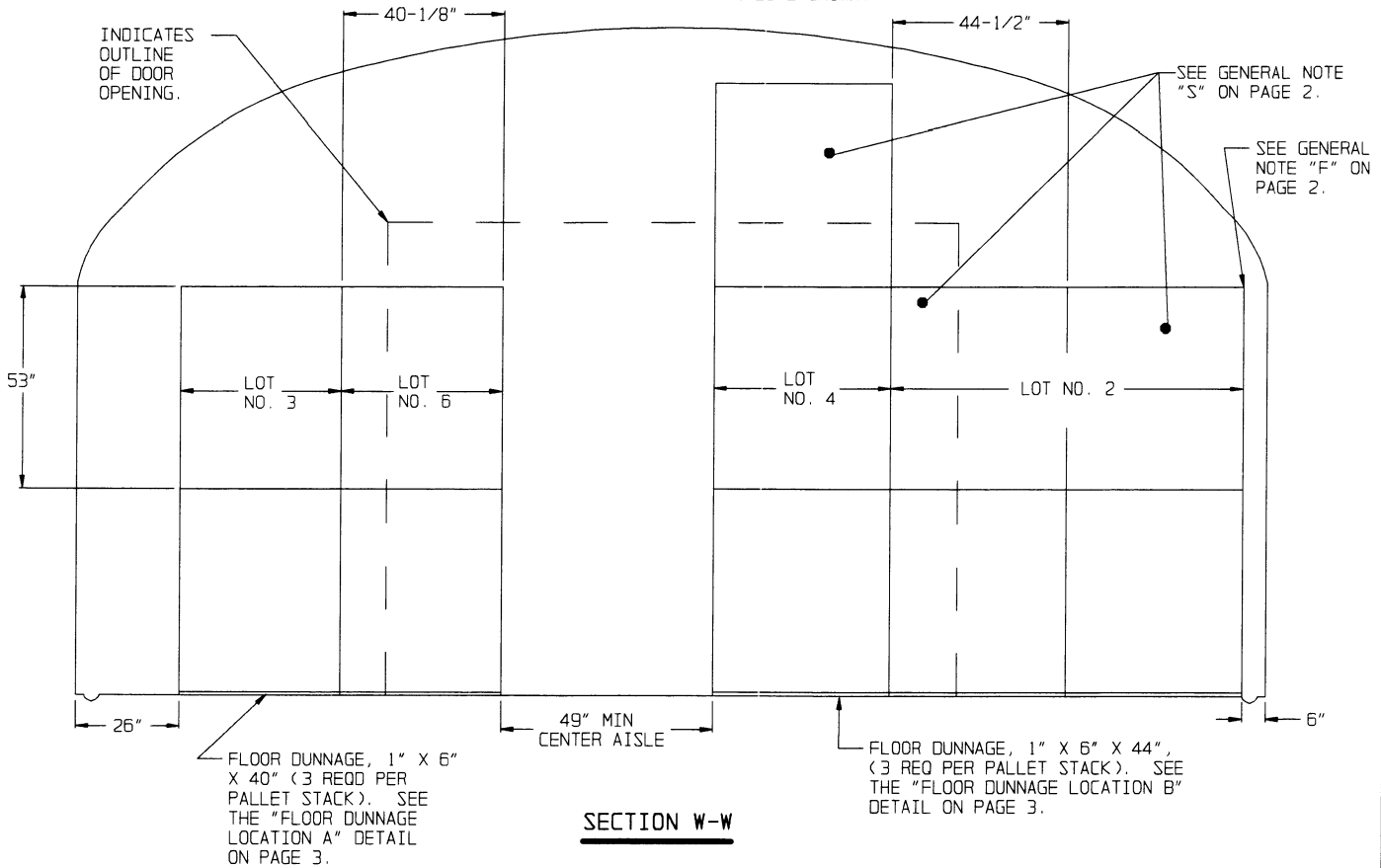
(SPECIAL NOTES CONTINUED)

6. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDE-WALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
7. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER, THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVABLE OF EITHER LOT.
8. AREAS ENCLOSED BY DOTTED LINES INDICATE LOCATIONS WHERE ADDITIONAL LOTS MAY BE STORED OR WHERE ADDITIONAL 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 5, RELATIVE TO "12" LIFTS" WILL BE MAJOR FACTORS IMPACTING ON THE NUMBER OF PALLET UNITS 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'-0" 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 49 INCHES WIDE. AN AISLE SLIGHTLY WIDER THAN 49 INCHES WILL ENHANCE FORKLIFT TRUCK MOVEMENT WITHIN A MAGAZINE; HOWEVER, THIS AISLE SHOULD NOT BE MADE WIDER IF A LOSS IN STORAGE RESULTS.

TYPICAL MULTIPLE-LOT STORAGE IN IGLOO AND ARCH TYPE MAGAZINES



PLAN VIEW
(80'-0" STRADLEY MAGAZINE SHOWN)



SECTION W-W

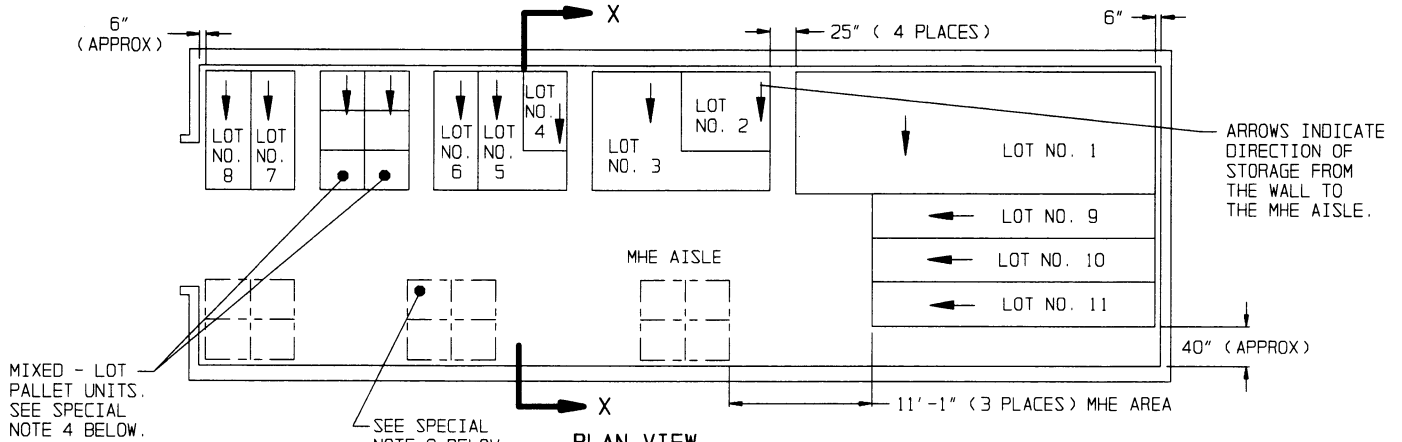
SPECIAL NOTES:

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.

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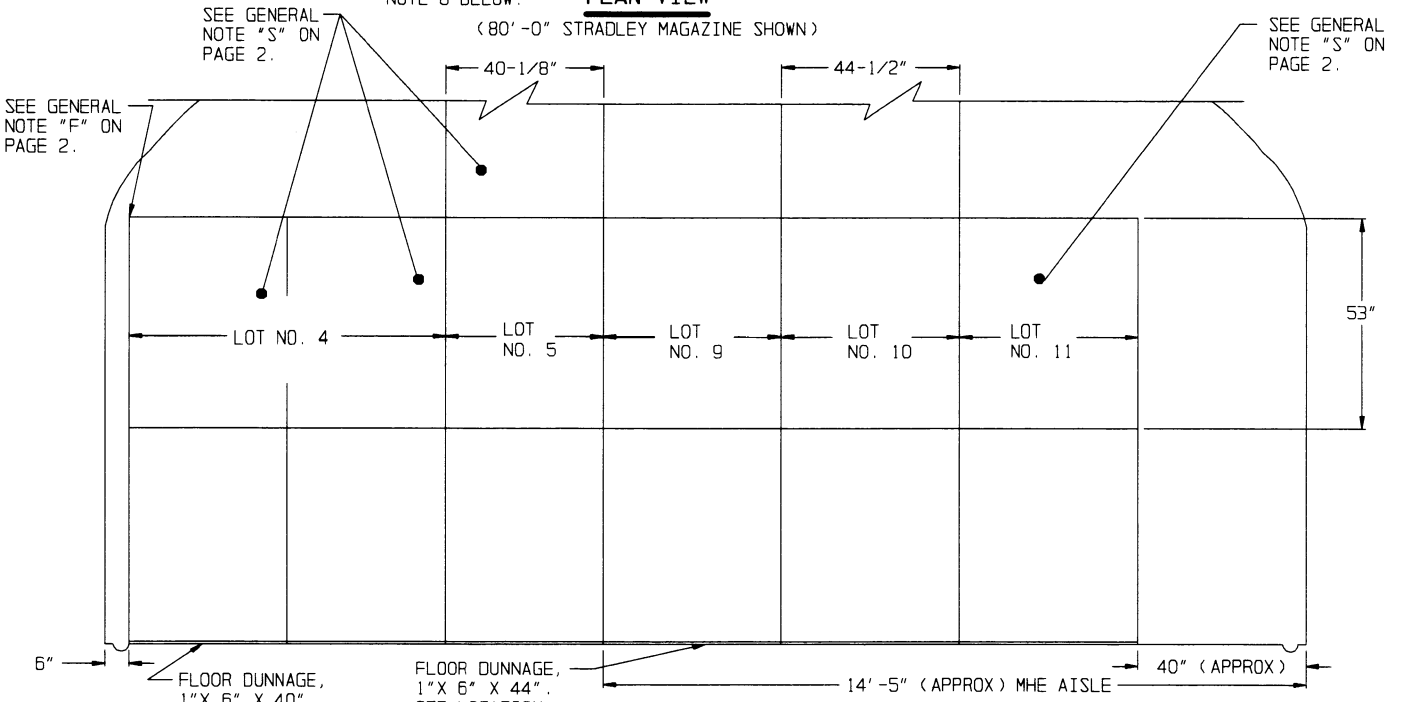
(SPECIAL NOTES CONTINUED)

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. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF THE MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
5. FOR STORAGE OF MULTIPLE-LOTS, THE DISTANCE FROM THE SIDE WALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR THE MHE.
6. 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.



PLAN VIEW

(80'-0" STRADLEY MAGAZINE SHOWN)



SECTION X-X

SPECIAL NOTES:

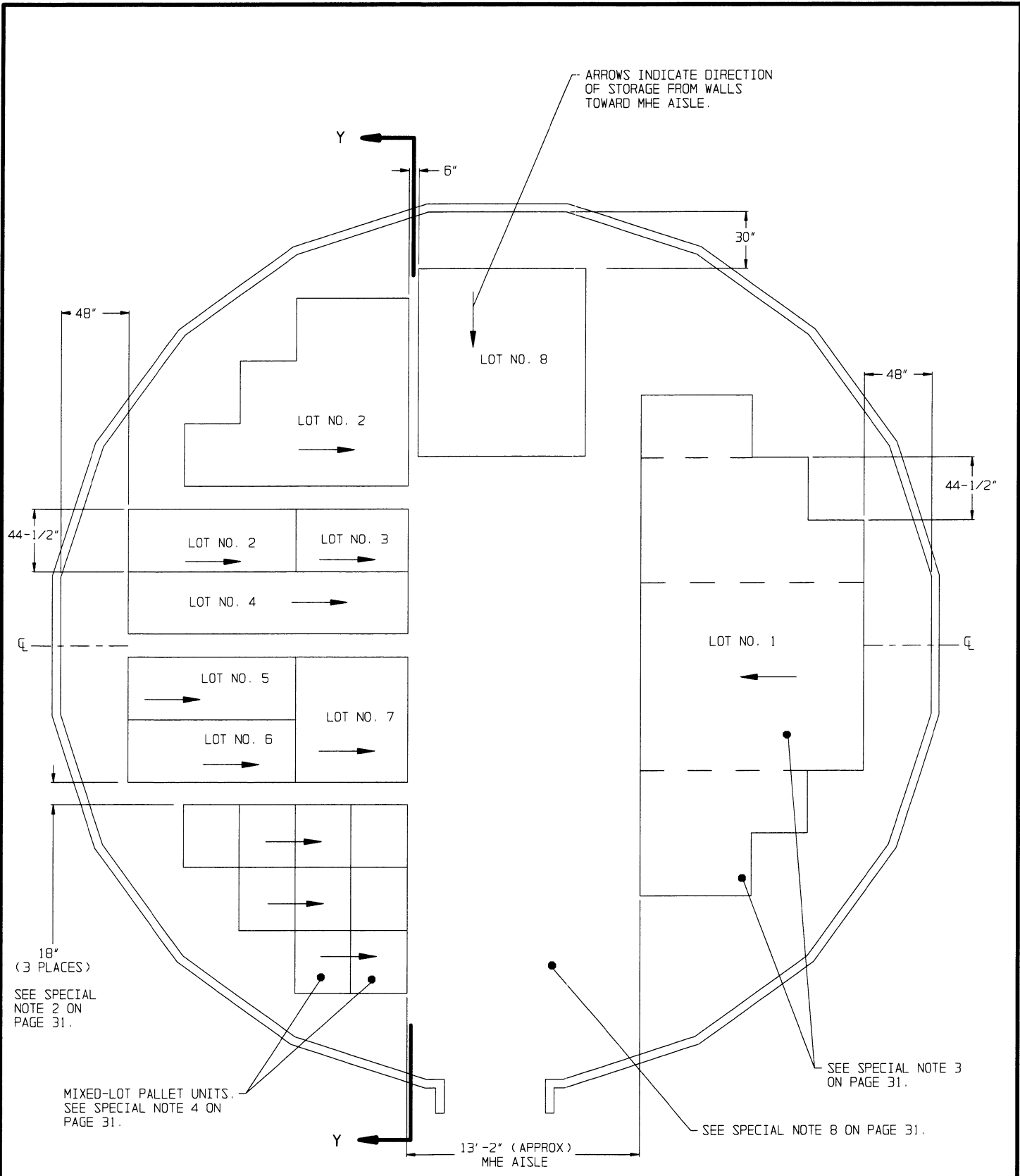
1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY AND APPLY TO STORAGE OF NUMEROUS SMALL LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 18" MUST BE PROVIDED AT ONE SIDE OF EACH "BURIED" 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. A MIXED-LOT PALLET UNIT MAY HAVE FROM TWO LOTS PER PALLET UNIT UPWARDS TO AS MANY DIFFERENT LOTS AS COMPLETE ROUNDS WITHIN THAT UNIT. HOWEVER, ALL COMPLETE ROUNDS AND LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.
5. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. PALLET UNITS OF A SINGLE-LOT OR MIXED-LOT PALLET UNITS ARE CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THE SINGLE-LOT OR MIXED-LOT UNITS. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF THE MHE PERMITS AND SAFE HANDLING IS NOT JEOPARDIZED.

(SPECIAL NOTES CONTINUED)

6. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDE-WALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
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. AREAS ENCLOSED BY DOTTED LINES INDICATE LOCATIONS WHERE ADDITIONAL LOTS MAY BE STORED OR WHERE ADDITIONAL 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 5, RELATIVE TO "12" LIFTS", WILL BE MAJOR FACTORS IMPACTING ON THE NUMBER OF PALLET UNITS 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'-1" 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 49 INCHES WIDE. AN AISLE SLIGHTLY WIDER THAN 49 INCHES WILL ENHANCE FORKLIFT TRUCK MOVEMENT WITHIN A MAGAZINE; HOWEVER, THIS AISLE SHOULD NOT BE MADE WIDER IF A LOSS IN STORAGE RESULTS.

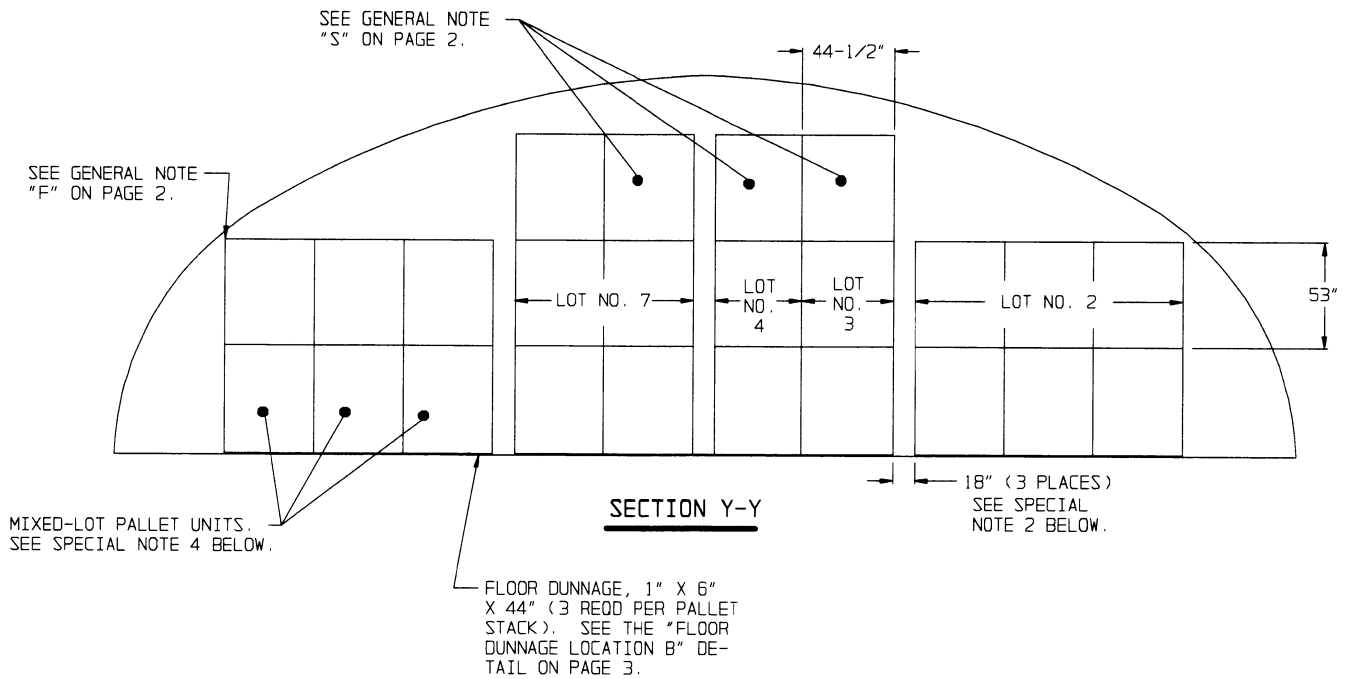
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TYPICAL MULTIPLE-LOT STORAGE IN STRADLEY AND OVAL-ARCH TYPE MAGAZINES



PLAN VIEW

(52'-0" DIA MAGAZINE)



SPECIAL NOTES:

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 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. A MIXED-LOT PALLET UNIT MAY HAVE FROM TWO LOTS PER PALLET UNIT UPWARDS TO AS MANY DIFFERENT LOTS AS COMPLETE ROUNDS WITHIN THAT UNIT. HOWEVER, ALL COMPLETE ROUNDS AND LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.
5. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. PALLET UNITS OF A SINGLE-LOT OR MIXED-LOT PALLET UNITS ARE CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THE SINGLE-LOT OR MIXED-LOT UNITS. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF THE MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
6. FOR STORAGE OF MULTIPLE-LOTS, THE DISTANCE FROM THE WALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR THE MHE.
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 27 AND 29 FOR THE "ADDITIONAL STORAGE LOCATIONS" SHOWN BY DOTTED LINES). ADEQUATE SPACE FOR MHE OPERATION, AS DESCRIBED ON PAGES 27 AND 29, 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.

