

STORAGE IN APPROVED MAGAZINES OF MAVERICK MISSILE (ALL-UP ROUND) PACKED ONE PER CNU-399/E AND/OR CNU-425/E SHIPPING AND STORAGE CONTAINER

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U.S. ARMY MATERIEL COMMAND DRAWING			
APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND <i>mark</i> <i>David C. Probst</i> SMCAR-ESK		DRAFTSMAN D. WHITMORE	
		ENGINEER M. DAEUMER	
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND <i>William F Ernst</i> U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL		SUPPLY ENGINEERING DIVISION <i>Thomas J. Wehlich</i>	
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AUGUST 1990			
REVISION NO. 1	OCTOBER 1994	CLASS 19	DIVISION 48
SEE THE REVISION LISTING ON PAGE 2		DRAWING 7123	FILE SP1-3-4-14- 22K1

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 SPECIFIED IN THIS DRAWING ARE APPLICABLE TO THE MAVERICK MISSILE (ALL UP ROUND) PACKED ONE (1) PER CNU-399/E AND/OR CNU-425/E CONTAINER. FOR DETAILS OF THE CONTAINERS SEE AIR FORCE DRAWING NO. 101306 AND CONTAINER DETAILS ON PAGE 3. SUBSEQUENT REFERENCE TO CONTAINER MEANS THE CNU-399/E OR CNU-425/E CONTAINER WITH CONTENTS.
- C. THESE ITEMS ARE QD CLASS 1.1 AND ARE IN COMPATIBILITY GROUP E. CAUTION: THESE ITEMS ARE IN A "PROPULSIVE STATE" AND CONTAINERS MUST BE STORED WITH THE FORWARD END FACING TOWARD THE REAR WALL OR A SIDE WALL OF THE MAGAZINE, NOT TOWARD THE FRONT WALL. THE PROCEDURES AS DEPICTED PROVIDE ACCESS TO THE HUMIDITY INDICATOR ON THE AFT END OF THE CONTAINER.
- D. 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 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 FOLLOWED.
- 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. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE AS PRESCRIBED BY LOCAL STANDARDS WILL NOT BE EXCEEDED.
- G. IF THE QUANTITY OF CONTAINERS FOR A MAGAZINE IS TO BE REDUCED FROM WHAT IS SHOWN HEREIN 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.
- H. IF AVAILABLE MHE PERMITS, ADDITIONAL CONTAINERS MAY BE STORED WITHIN THE MHE AREA AND/OR OTHER AVAILABLE AREA OF THE MAGAZINE.
- J. STORED CONTAINERS MUST NOT CONTACT THE WALLS OF A MAGAZINE. TO PROVIDED FOR THIS MANDATORY CLEARANCE REQUIREMENT, CONTAINERS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN AS NECESSARY.
- K. AISLE DIMENSIONS AS SHOWN HEREIN MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE MATERIAL HANDLING EQUIPMENT (MHE), HOWEVER, AN 18" MINIMUM INSPECTION AISLE MUST BE MAINTAINED AT THE AFT END OF CONTAINERS WHERE HUMIDITY INDICATORS ARE LOCATED.
- L. OTHER COMPATIBLE ITEMS MAY BE STORED IN A MAGAZINE WHICH IS PARTIALLY FILLED WITH THE DESIGNATED ITEM.
- M. THE HEIGHT OF THE PACKAGE GUARD ON SOME FORKLIFT TRUCKS MAY NOT PERMIT PLACEMENT OF SOME TOP LAYER CONTAINERS IN THE STACKS SHOWN IN THE STORAGE VIEWS HEREIN, UNLESS TWO UPPER CONTAINERS 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 CONTAINERS AS ONE LIFT.
- O. STORAGE OF MULTIPLE LOTS IN A MAGAZINE WILL REQUIRE CAREFUL PREPLANNING 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 28 THRU 30.

(CONTINUED AT RIGHT)

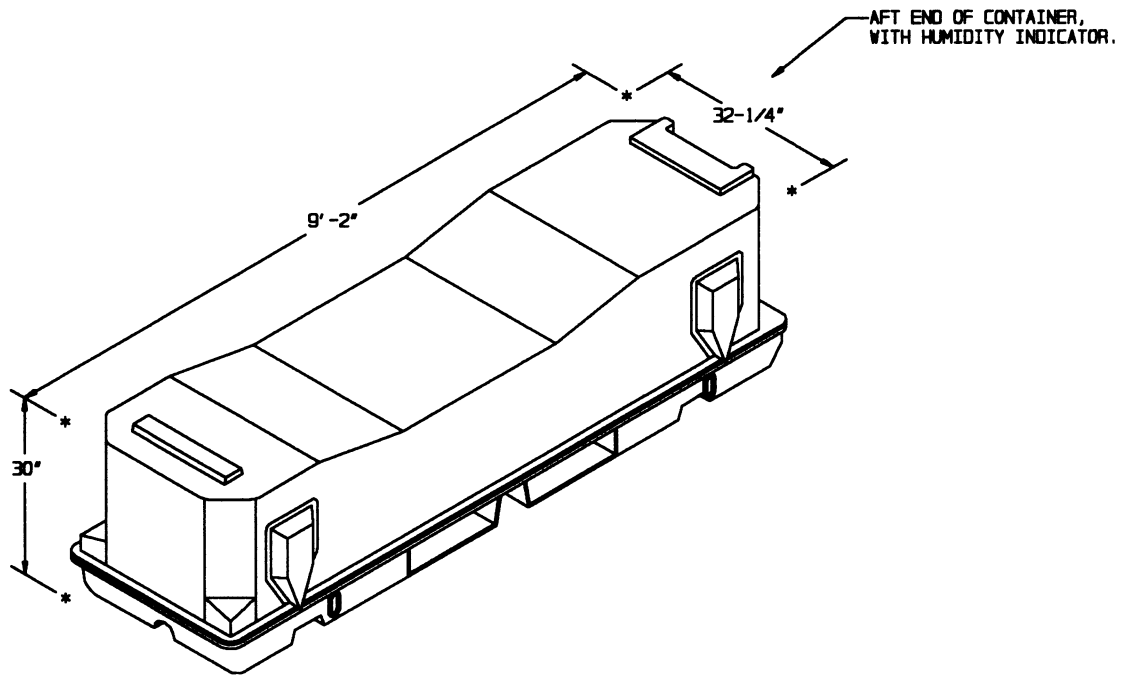
(GENERAL NOTES CONTINUED)

- P. 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 27 CAN ALSO BE ADAPTED FOR THE STORING OF MORE THAN ONE LOT. MULTIPLE LOTS OF CONTAINERS, WHEN STORED IN ACCORDANCE WITH THE BASIC STORAGE PATTERN, MAY BE STORED WITH ONE OR MORE STACKS USED FOR EACH LOT. LOTS WILL NOT BE MIXED, EXCEPT TO THE EXTENT THAT CONTAINERS OF ONE LOT WILL NOT BE STACKED ON TOP OF CONTAINERS FROM ANOTHER LOT. MULTIPLE LOTS OF CONTAINERS MAY BE STORED WITH ONE OR MORE ROWS USED FOR EACH LOT. (A ROW RUNS FROM THE REAR OF THE MAGAZINE TO THE FRONT). EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE GENERAL NOTES AND IN THE SPECIAL NOTES ON PAGES 28 THRU 30.
- Q. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENT MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4 MM, AND ONE POUND EQUALS 0.454 KG.
- R. PORTIONS OF THE MAGAZINES, SUCH AS SIDEWALLS, END WALLS, AND ROOFS, HAVE NOT BEEN SHOWN FOR IN THE STORAGE VIEWS FOR CLARITY PURPOSES.
- S. CONTAINERS PRESENTLY STORED IN ACCORDANCE WITH A PRIOR APPROVED DRAWING NEED NOT BE RE-STORED SOLELY TO CONFORM TO THE PROCEDURES SPECIFIED IN THIS DOCUMENT.

REVISIONS

REVISION NO. 1, DATED OCTOBER 1994, CONSISTS OF:

1. UPDATING DRAWING FORMAT AND GENERAL NOTES TO CONFORM WITH CURRENT STANDARDS.
2. DELETING GENERAL NOTE "N" ON PAGE 2.
3. DELETING ALL REFERENCES TO MIXED LOT CONTAINERS, DOES NOT APPLY, SINCE ONLY ONE MISSILE IS PACKED IN A CONTAINER.

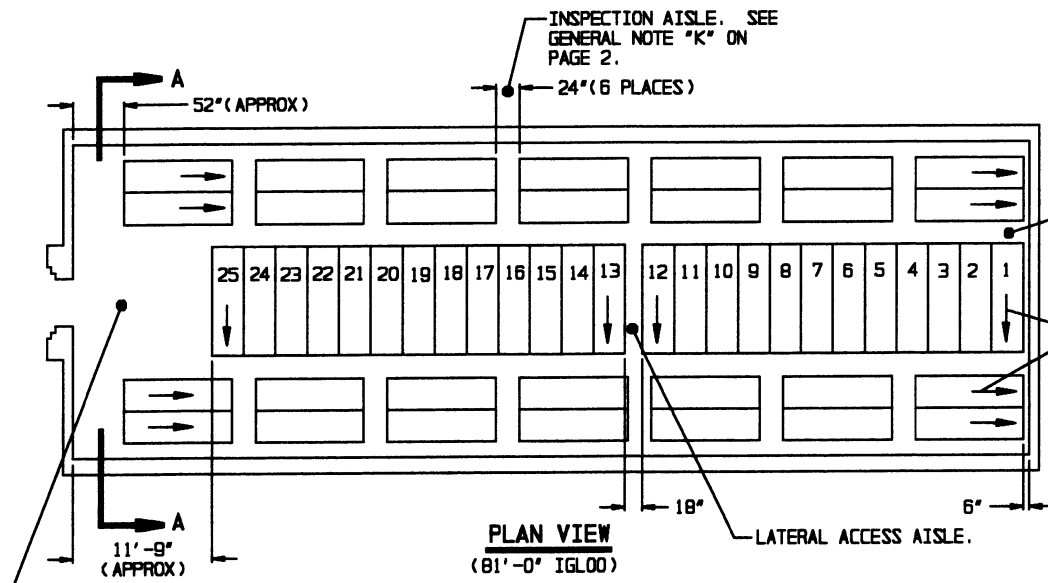


CNU 399/E OR CNU 425/E CONTAINER

CUBE - - - - - 61.6 CU. FT. (APPROX)
 GROSS WEIGHT - - - - - 1,015 LBS (APPROX)

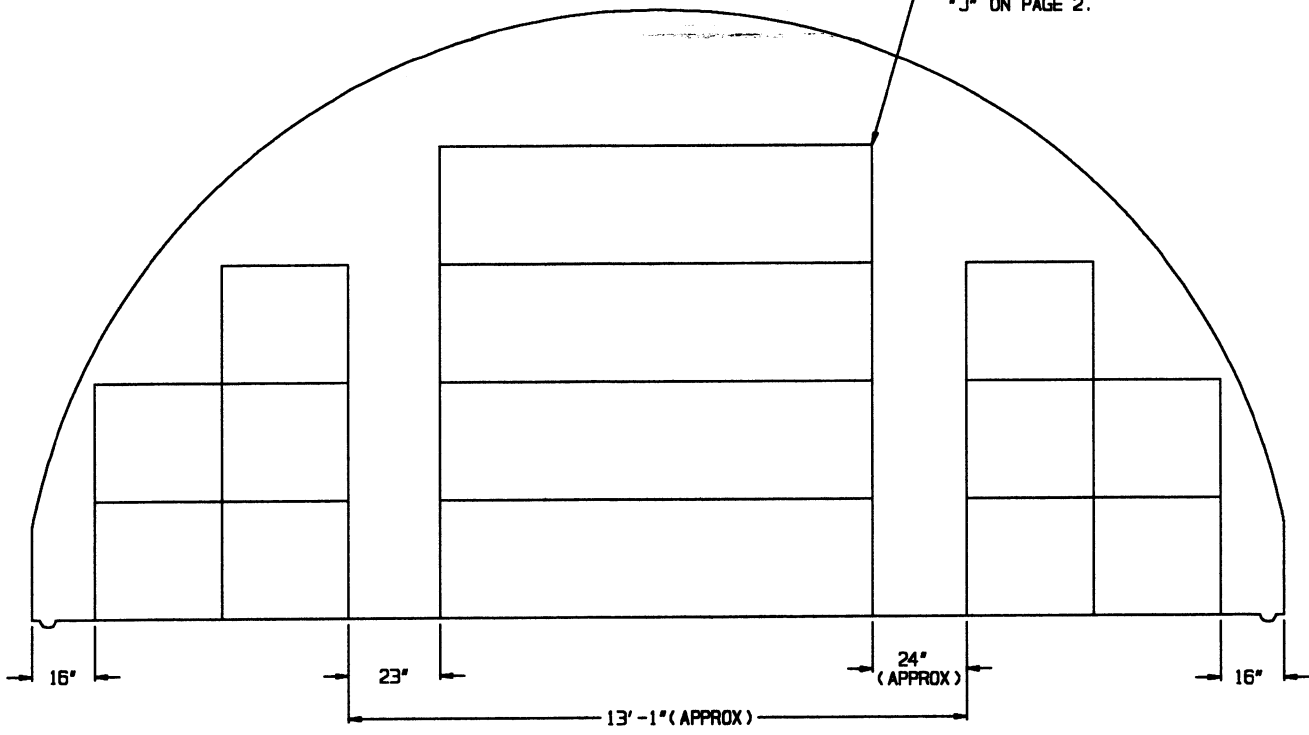
STORAGE IN 81'-0" IGLOO
(12'-9" HIGH)

ITEM	QUANTITY
CONTAINER - - - - -	170



SEE GENERAL NOTE "H" ON PAGE 2.

SEE GENERAL NOTE "J" ON PAGE 2.



STORAGE IN 60'-8" IGLOO
(12'-9" HIGH)

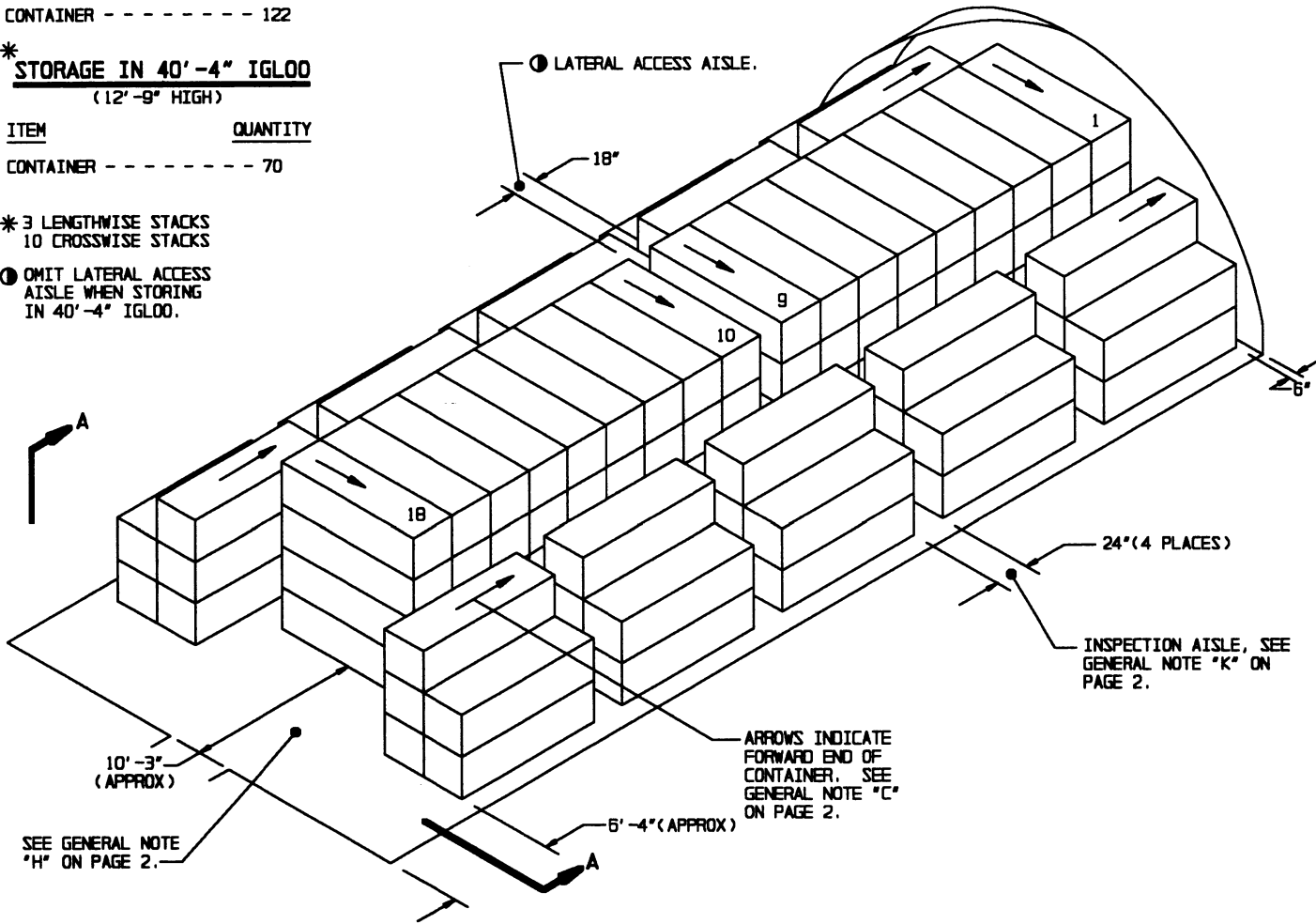
ITEM	QUANTITY
CONTAINER - - - - -	122

* **STORAGE IN 40'-4" IGLOO**
(12'-9" HIGH)

ITEM	QUANTITY
CONTAINER - - - - -	70

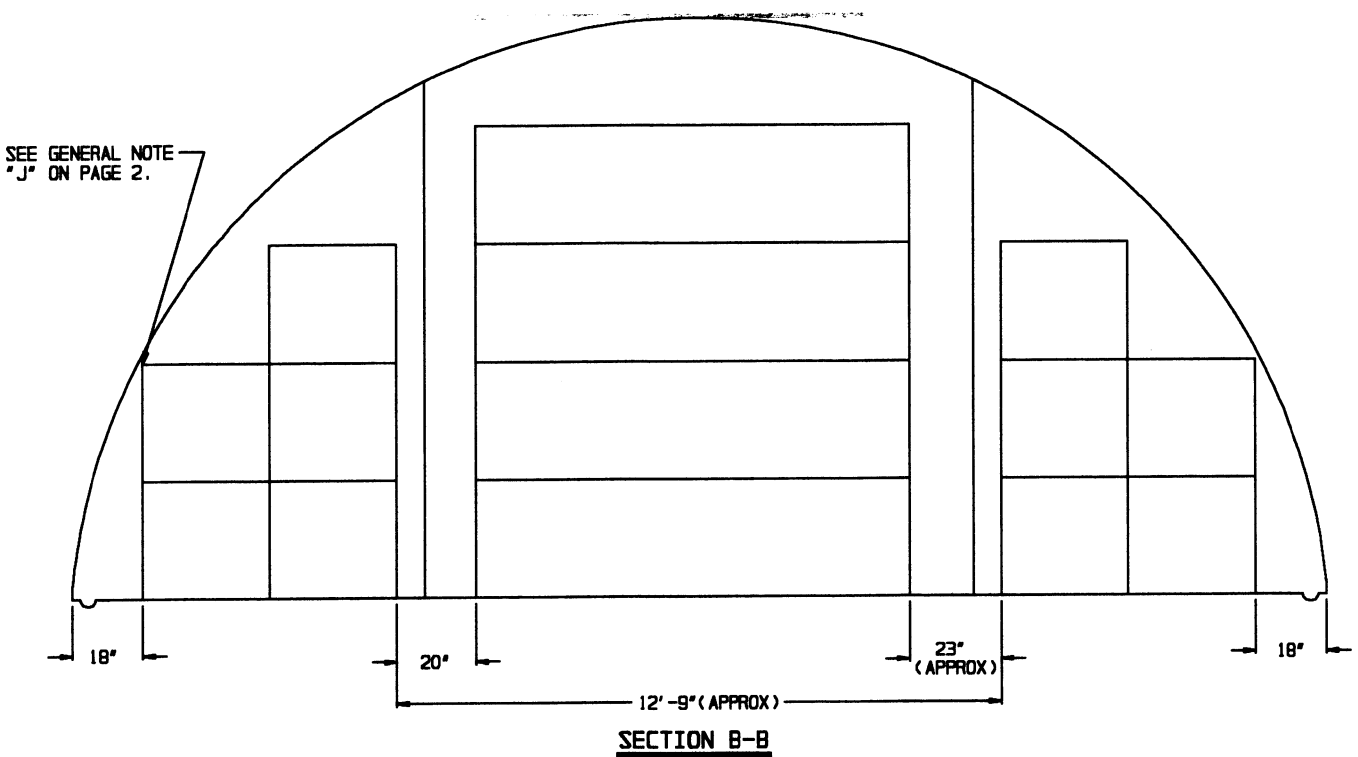
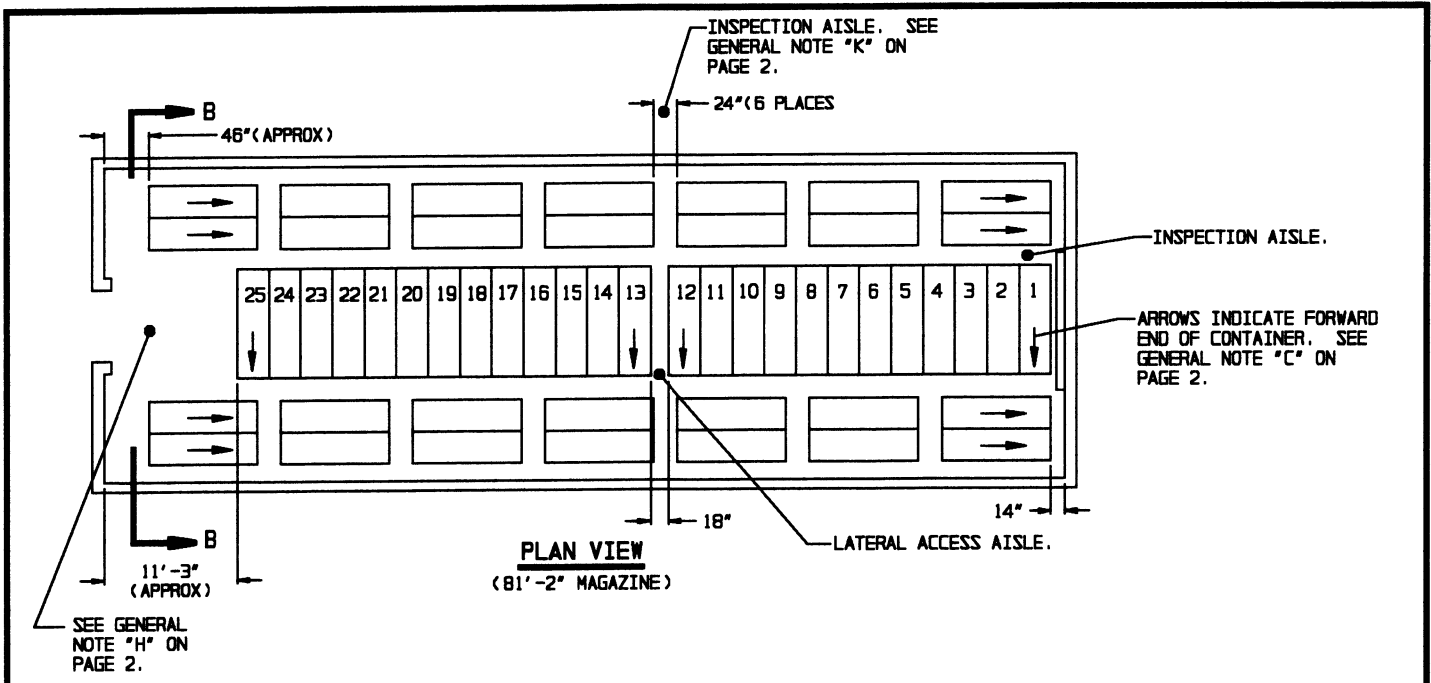
* 3 LENGTHWISE STACKS
10 CROSSWISE STACKS

⊙ OMIT LATERAL ACCESS AISLE WHEN STORING IN 40'-4" IGLOO.



ISOMETRIC VIEW
(60'-8" IGLOO)

FOR "GENERAL NOTES", SEE PAGE 2.



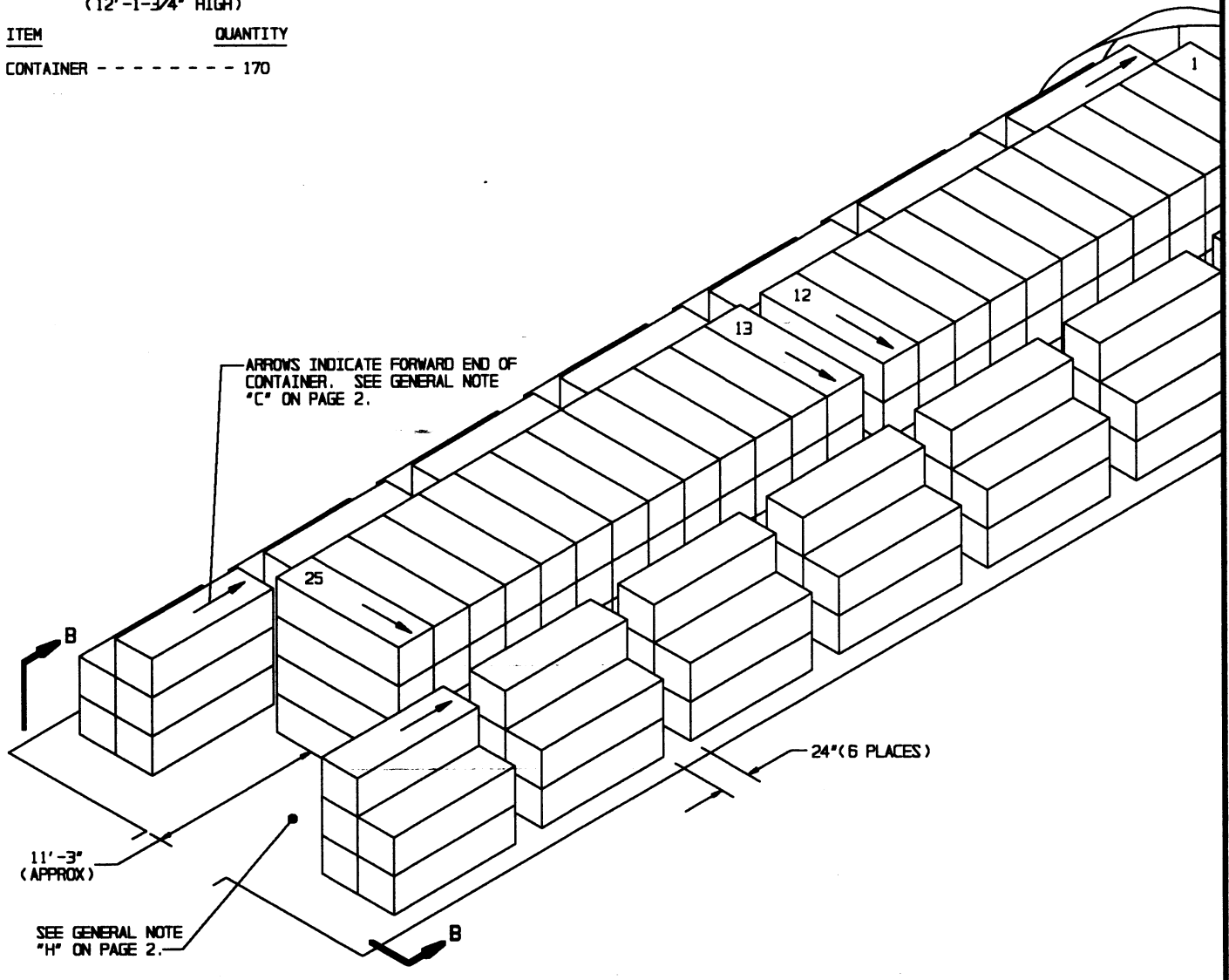
STORAGE IN 81'-2" MAGAZINE

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

ITEM

QUANTITY

CONTAINER - - - - - 170



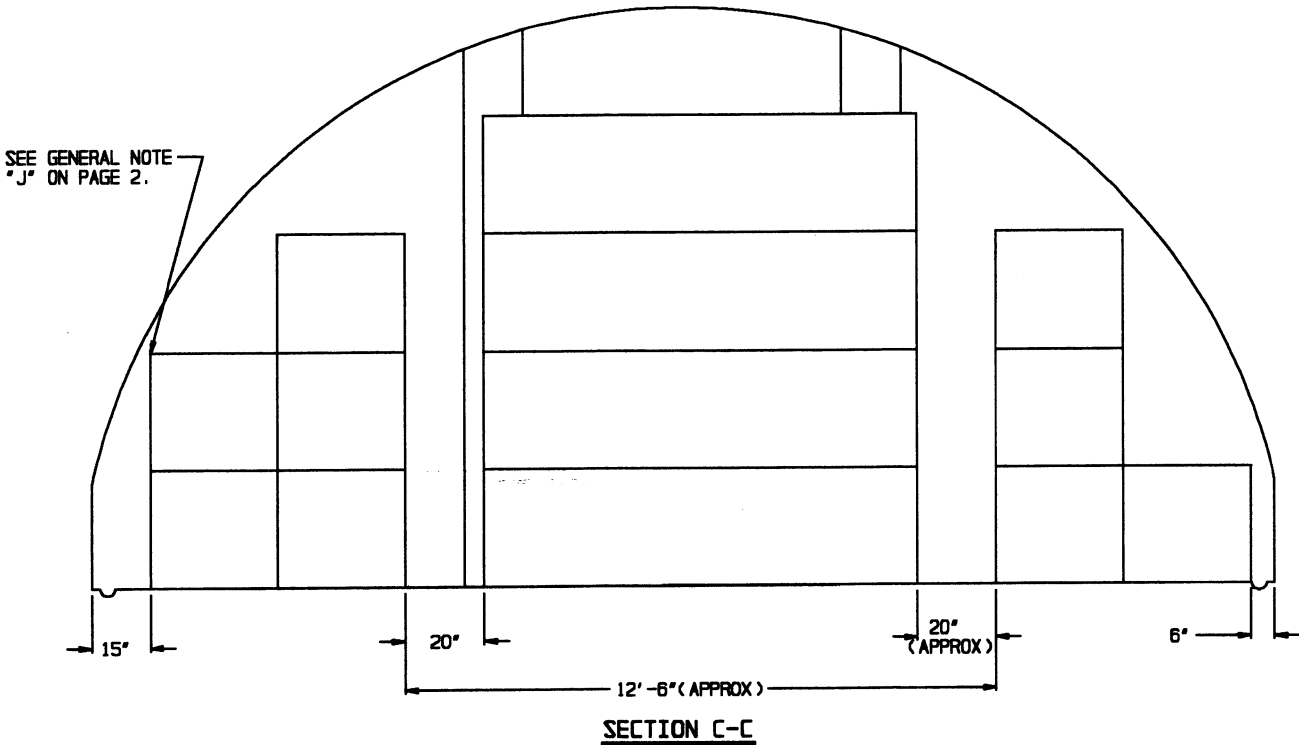
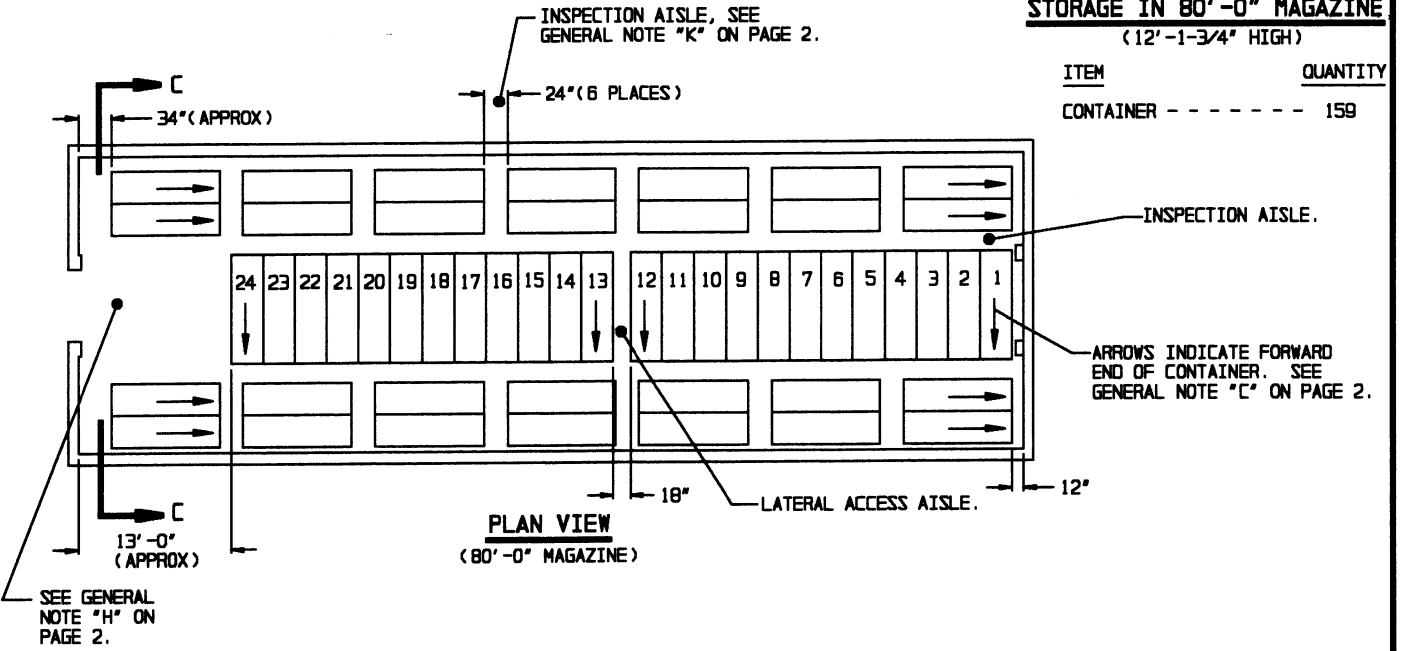
ISOMETRIC VIEW
(81'-2" MAGAZINE)

FOR "GENERAL NOTES", SEE PAGE 2.

STORAGE IN 80'-0" MAGAZINE

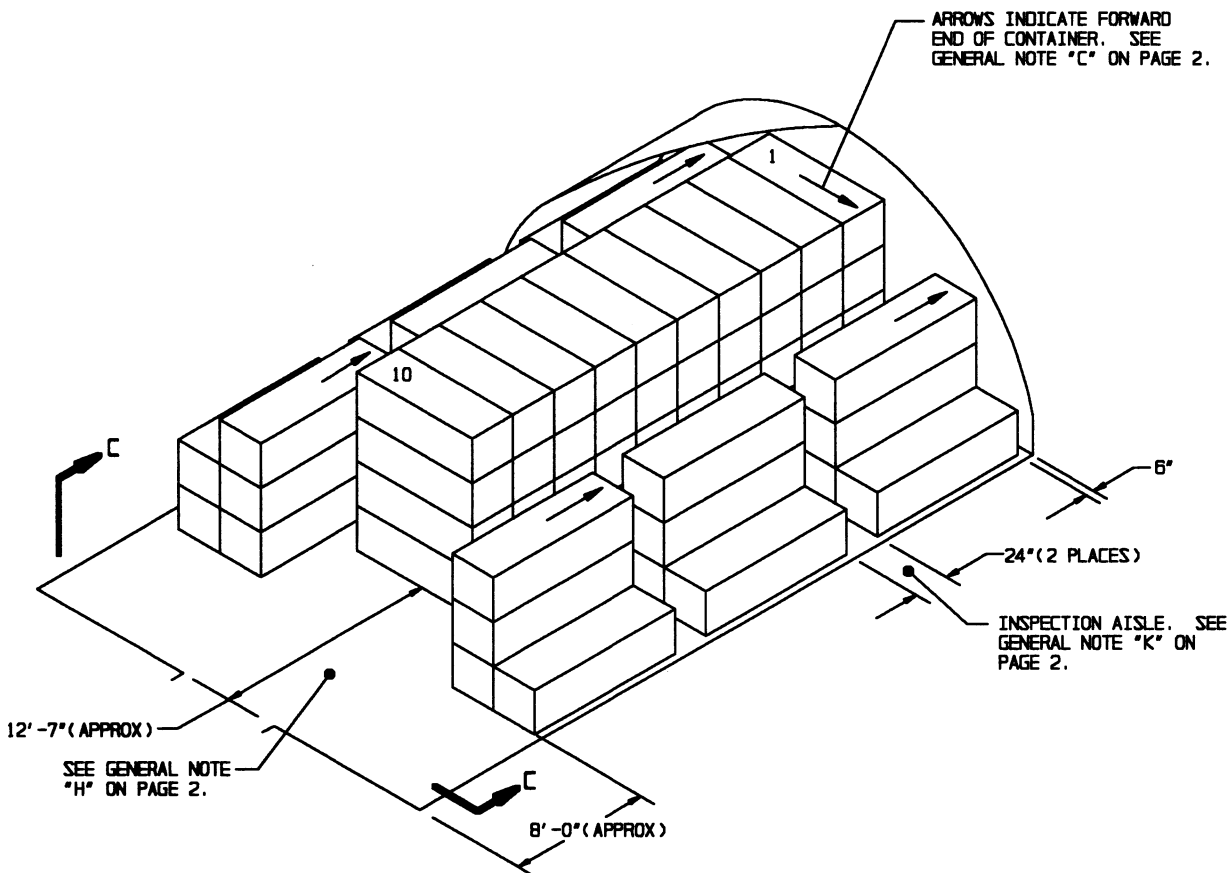
(12'-1-3/4" HIGH)

ITEM	QUANTITY
CONTAINER - - - - -	159



STORAGE IN 40'-0" MAGAZINE
 (12'-1-3/4" HIGH)

ITEM	QUANTITY
CONTAINER - - - - -	67



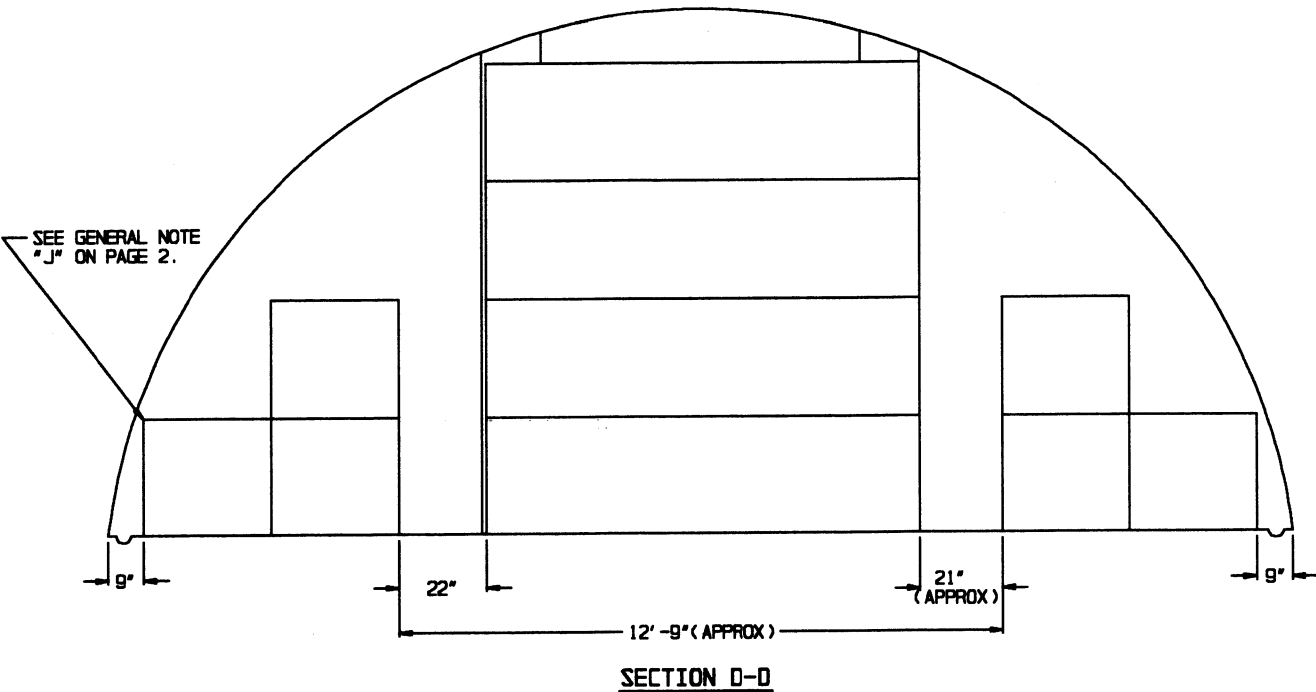
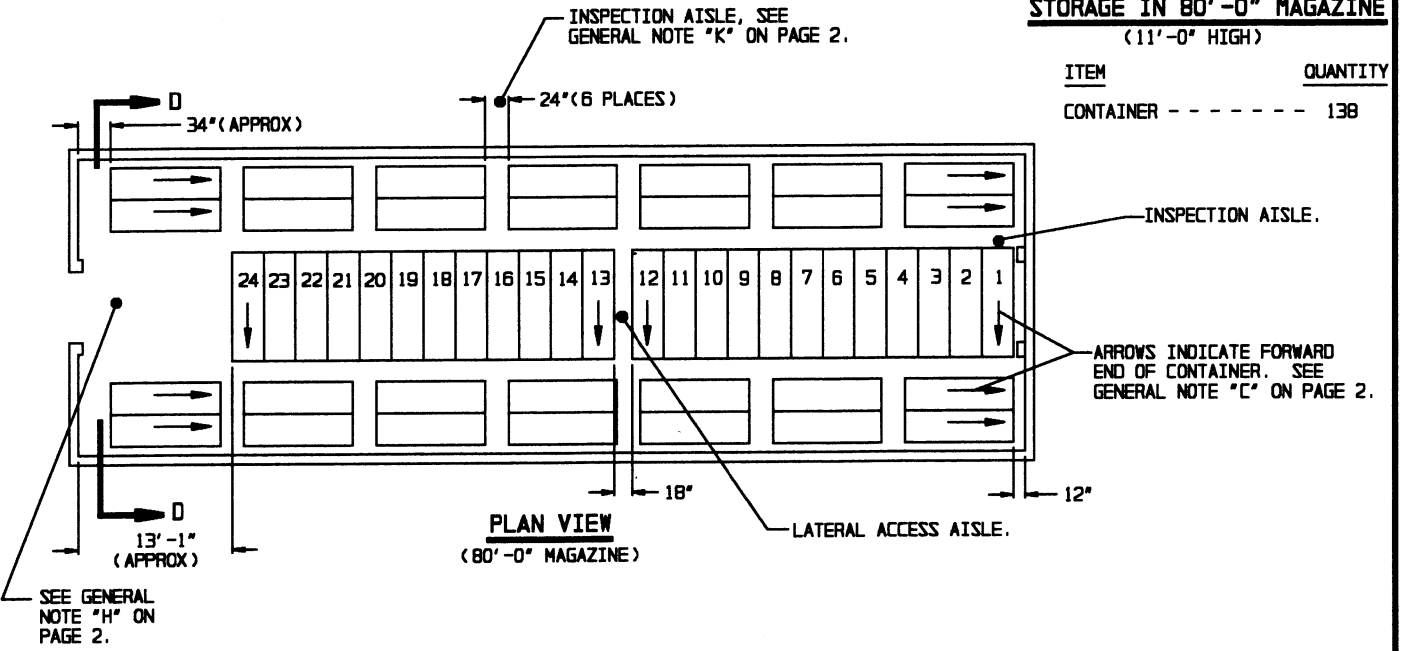
ISOMETRIC VIEW
 (40'-0" MAGAZINE)

FOR "GENERAL NOTES", SEE PAGE 2.

STORAGE IN 80'-0" MAGAZINE

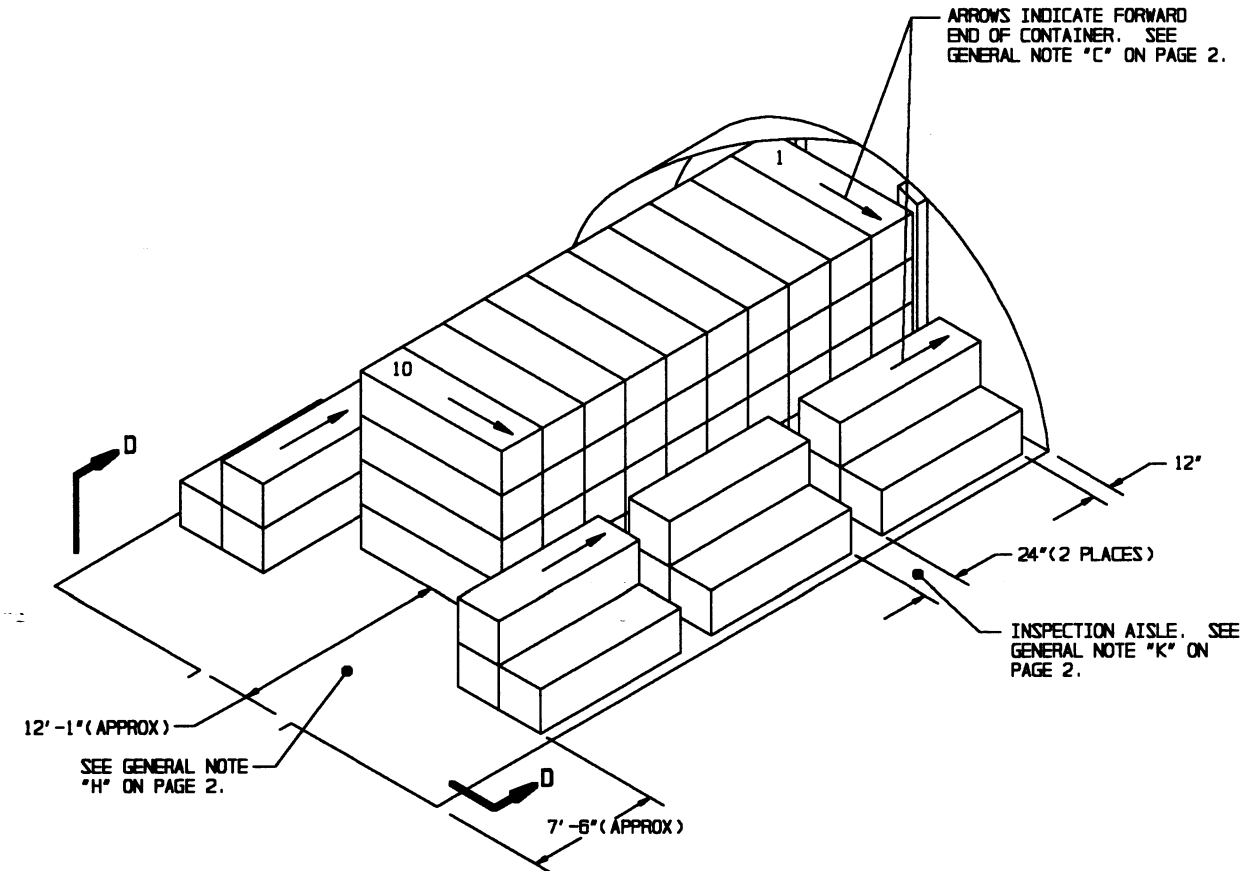
(11'-0" HIGH)

ITEM	QUANTITY
CONTAINER - - - - -	138



STORAGE IN 40'-0" MAGAZINE
(11'-0" HIGH)

<u>ITEM</u>	<u>QUANTITY</u>
CONTAINER - - - - -	58



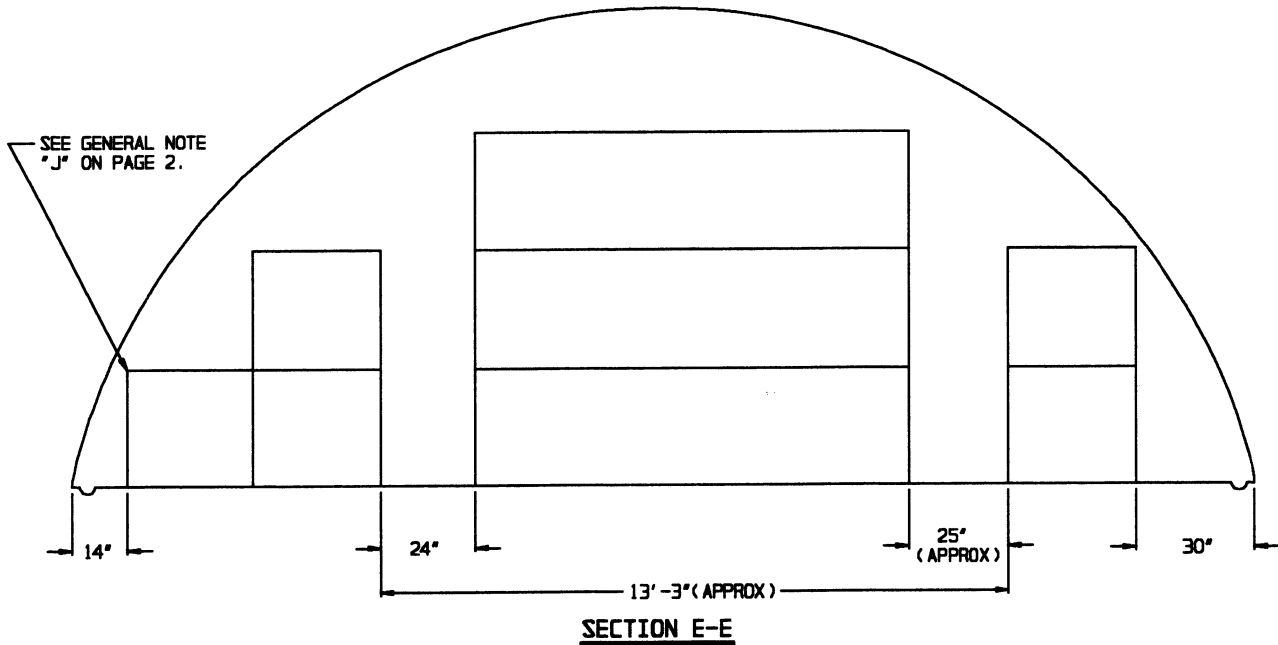
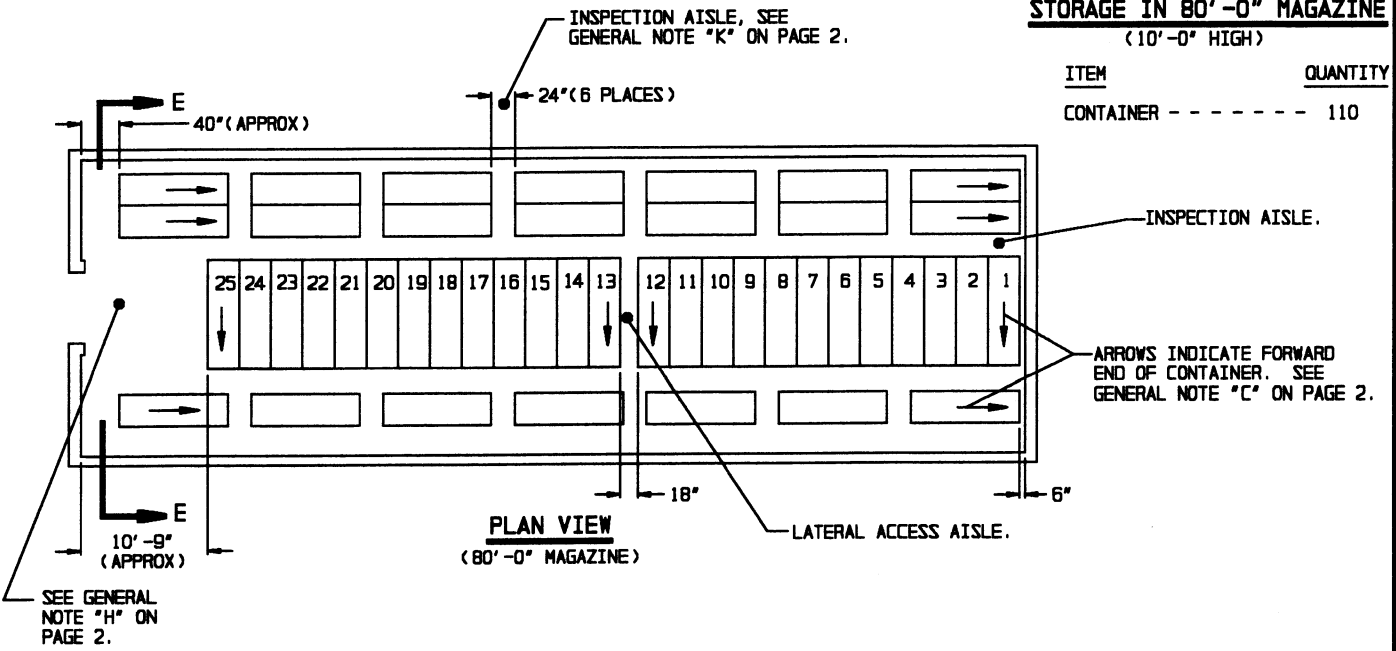
ISOMETRIC VIEW
(40'-0" MAGAZINE)

FOR "GENERAL NOTES", SEE PAGE 2.

STORAGE IN 80'-0" MAGAZINE

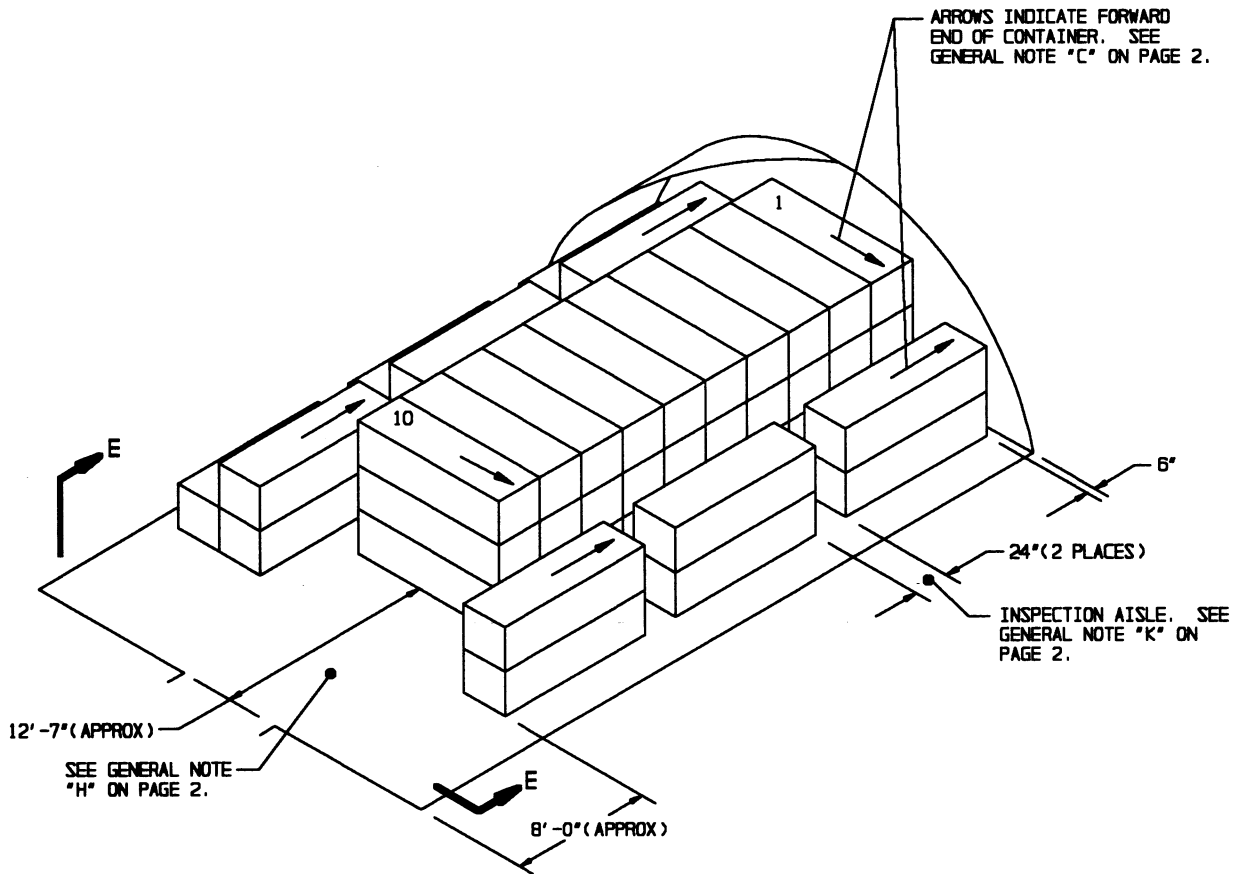
(10'-0" HIGH)

ITEM	QUANTITY
CONTAINER - - - - -	110



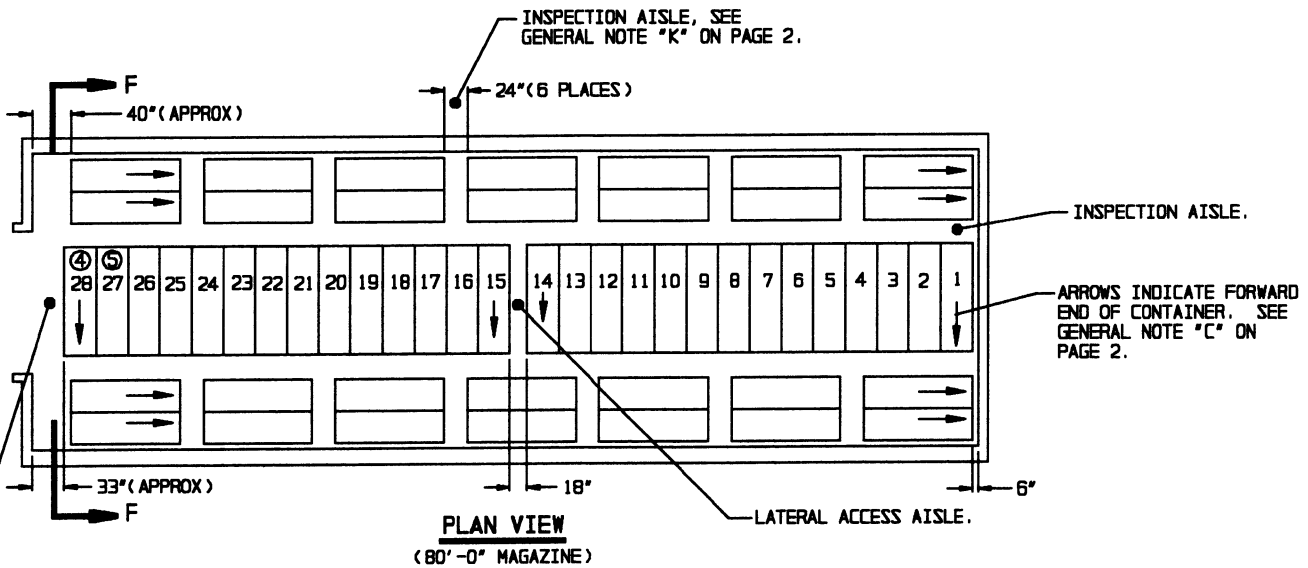
STORAGE IN 40'-0" MAGAZINE
(10'-0" HIGH)

<u>ITEM</u>	<u>QUANTITY</u>
CONTAINER - - - - -	45



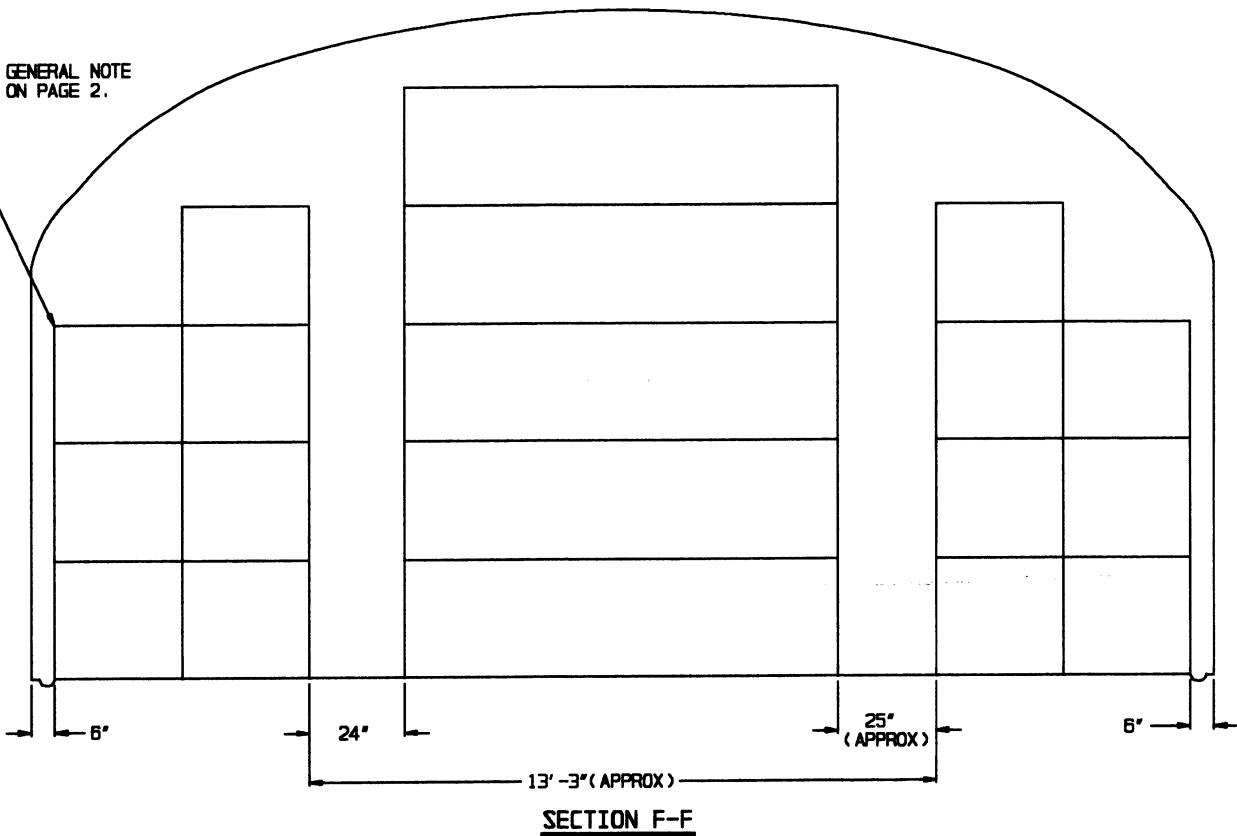
ISOMETRIC VIEW
(40'-0" MAGAZINE)

FOR "GENERAL NOTES", SEE PAGE 2.



SEE GENERAL NOTE "H" ON PAGE 2.

SEE GENERAL NOTE "J" ON PAGE 2.



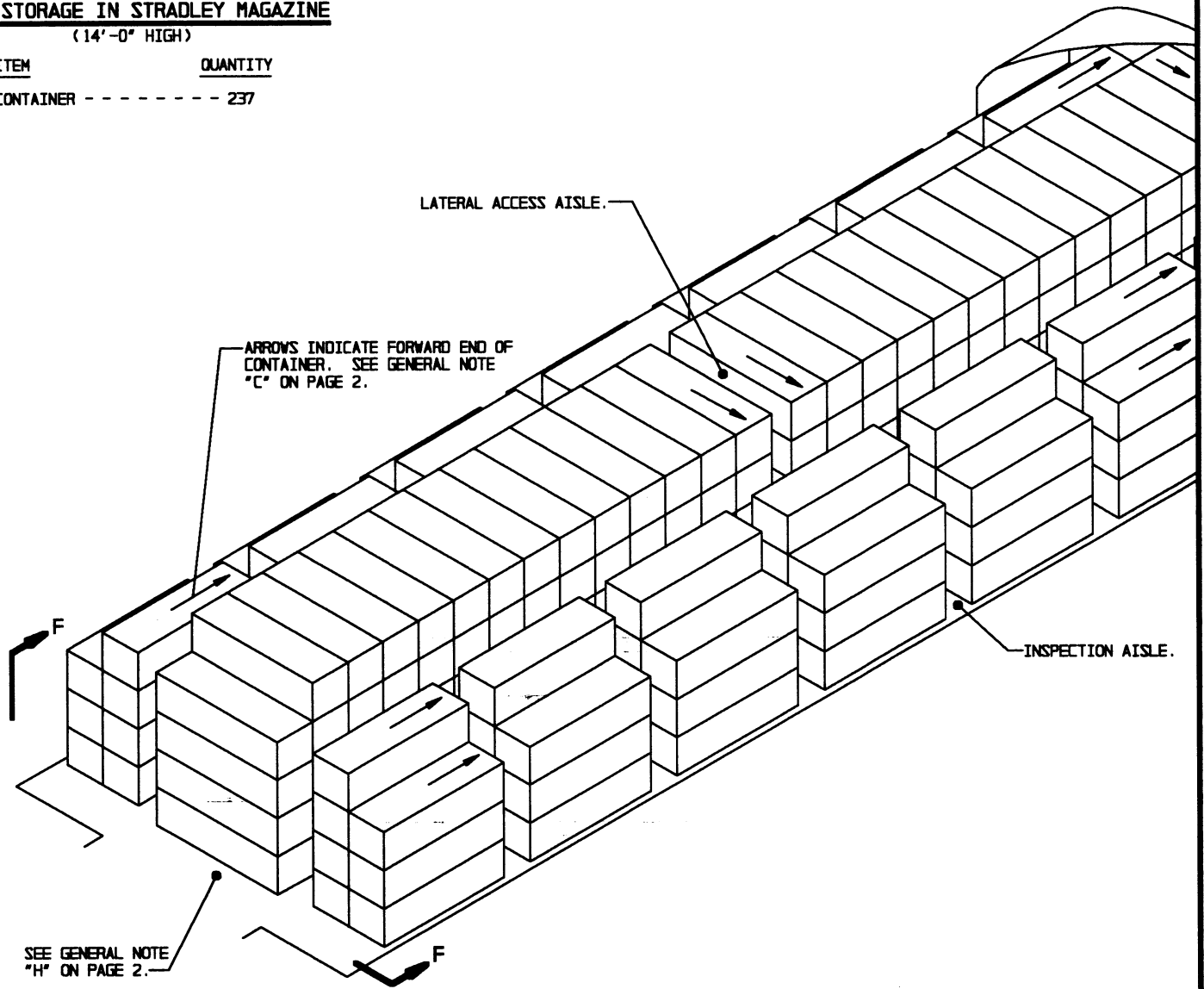
STORAGE IN STRADLEY MAGAZINE

(14'-0" HIGH)

ITEM

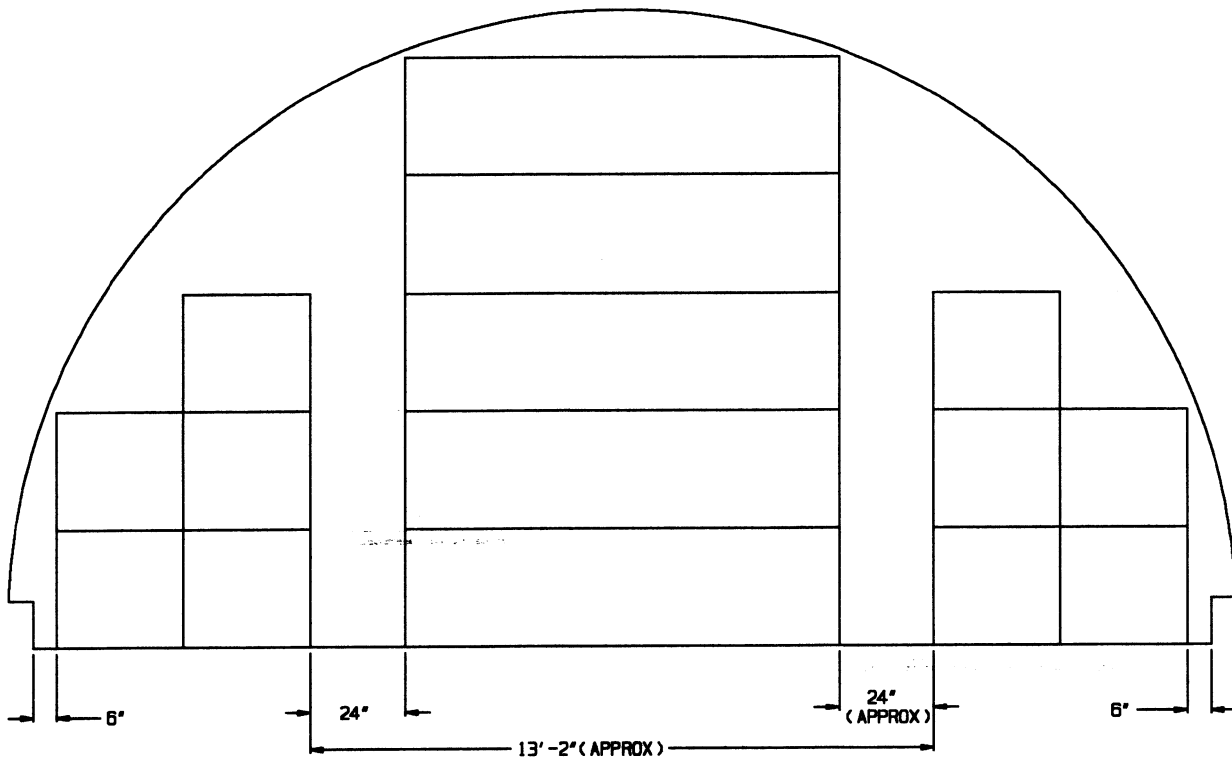
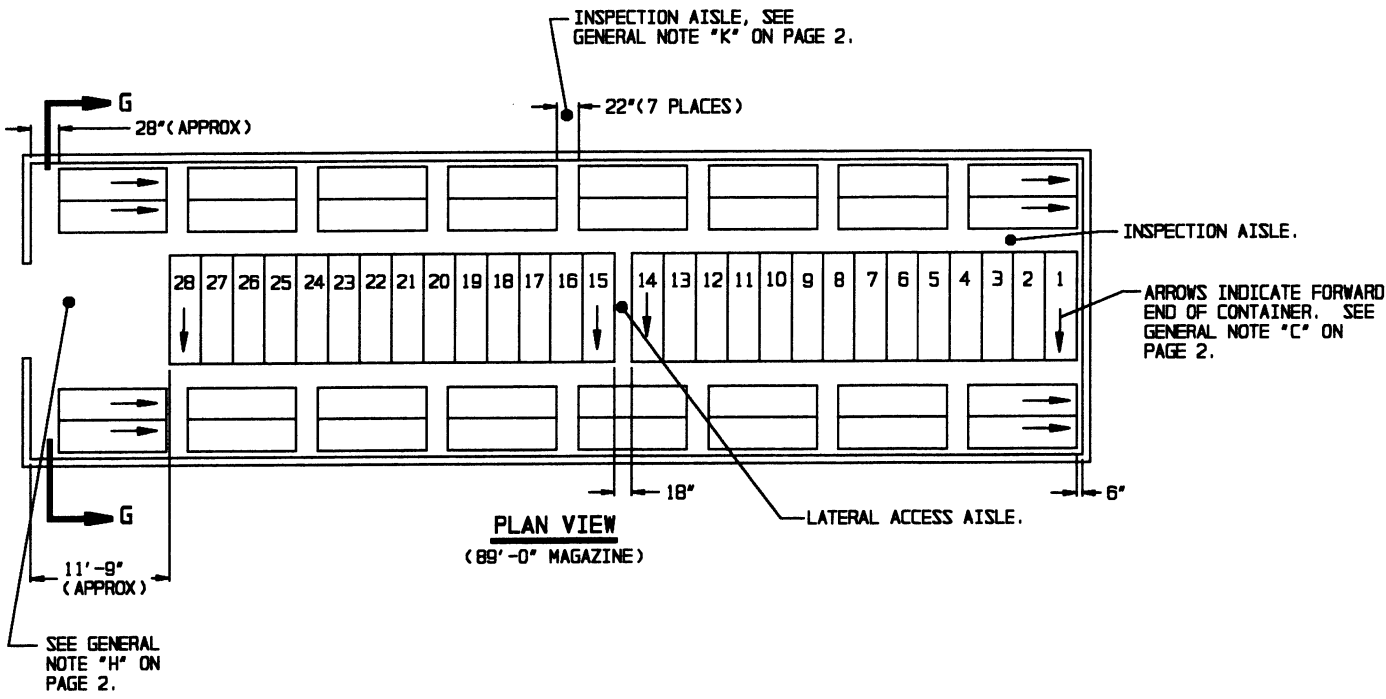
QUANTITY

CONTAINER - - - - - 237



ISOMETRIC VIEW
(STRADLEY MAGAZINE)

FOR "GENERAL NOTES", SEE PAGE 2.



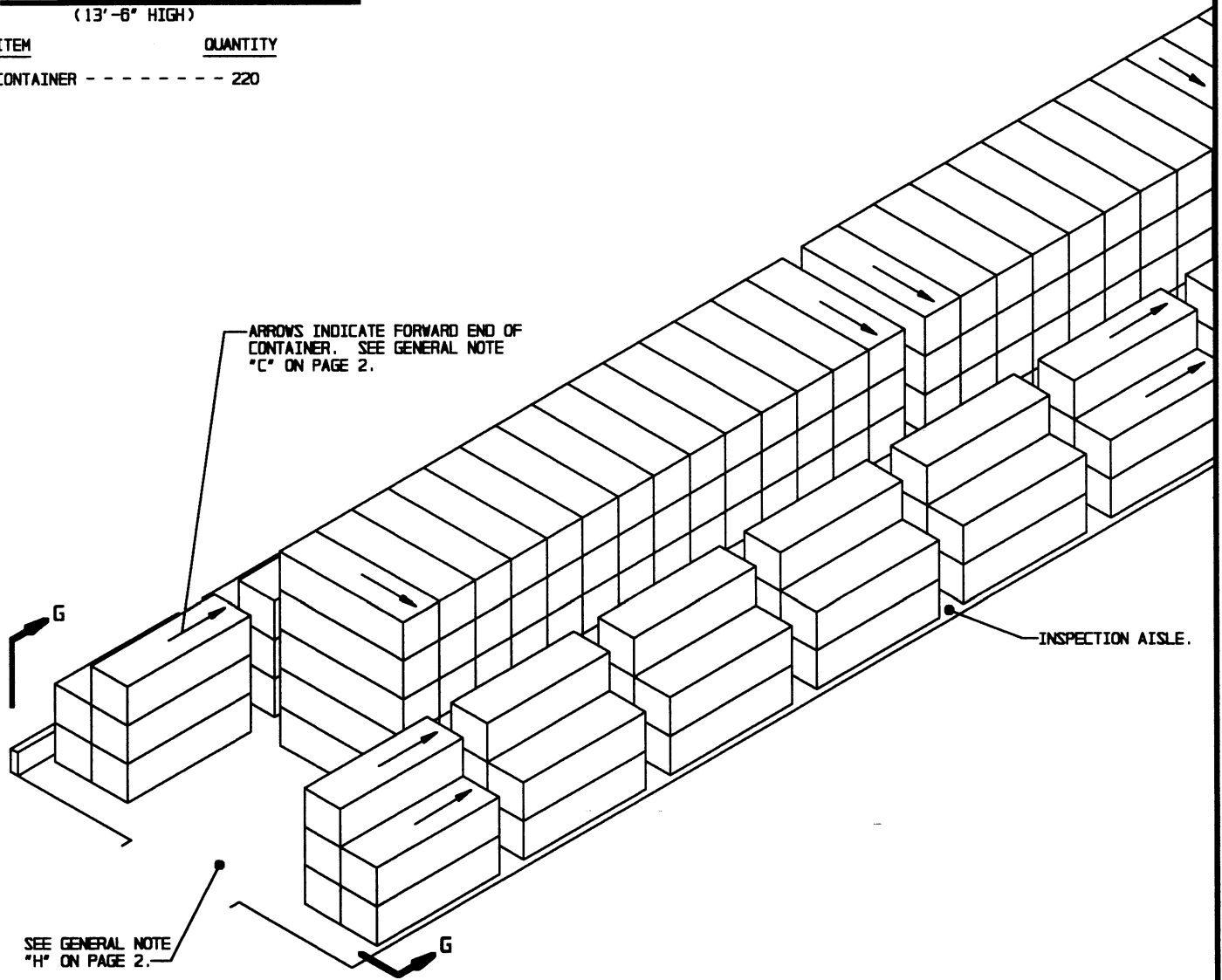
STORAGE IN STEEL ARCH MAGAZINE

(13'-6" HIGH)

ITEM

QUANTITY

CONTAINER - - - - - 220



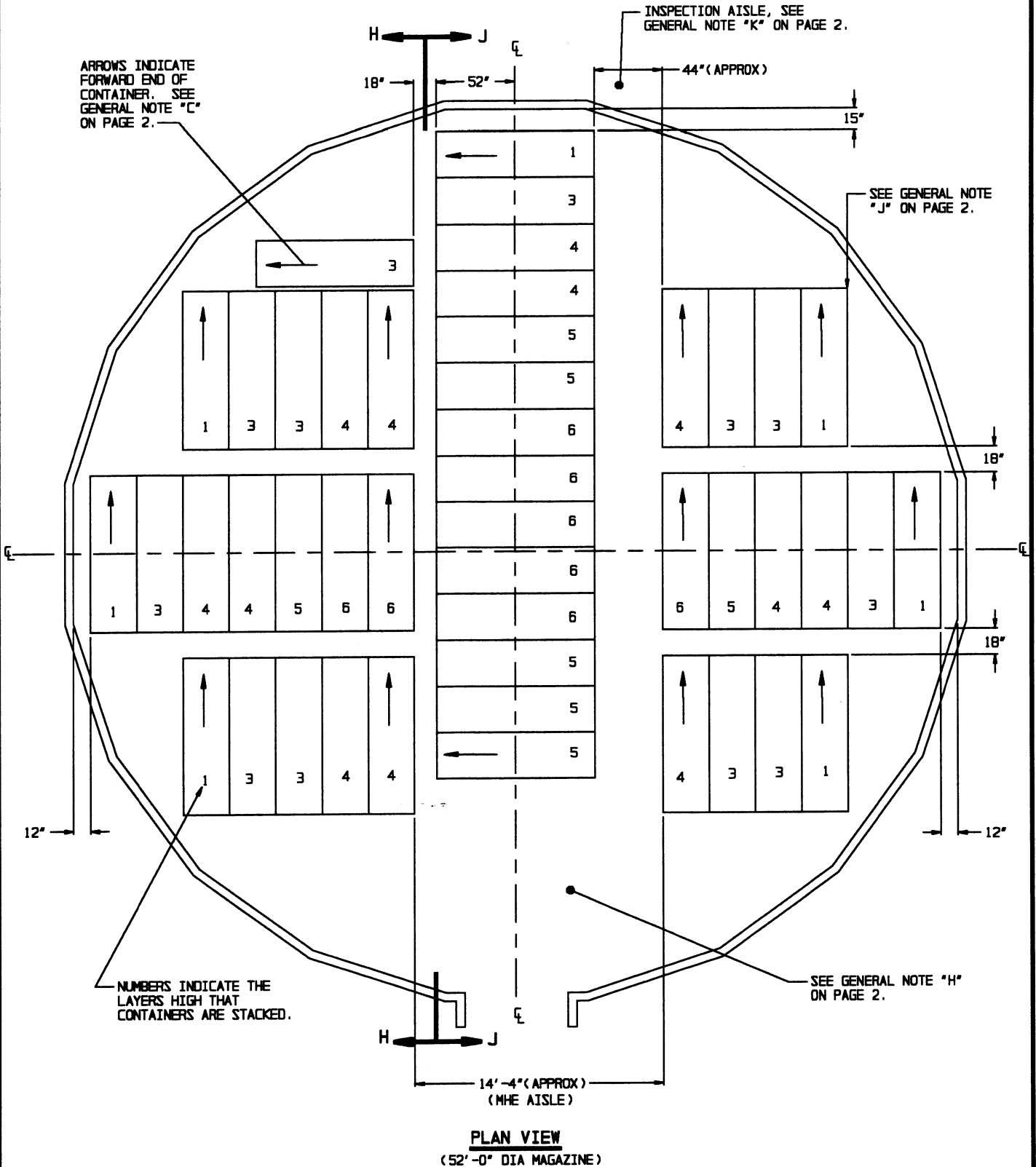
ISOMETRIC VIEW

(89'-0" MAGAZINE)

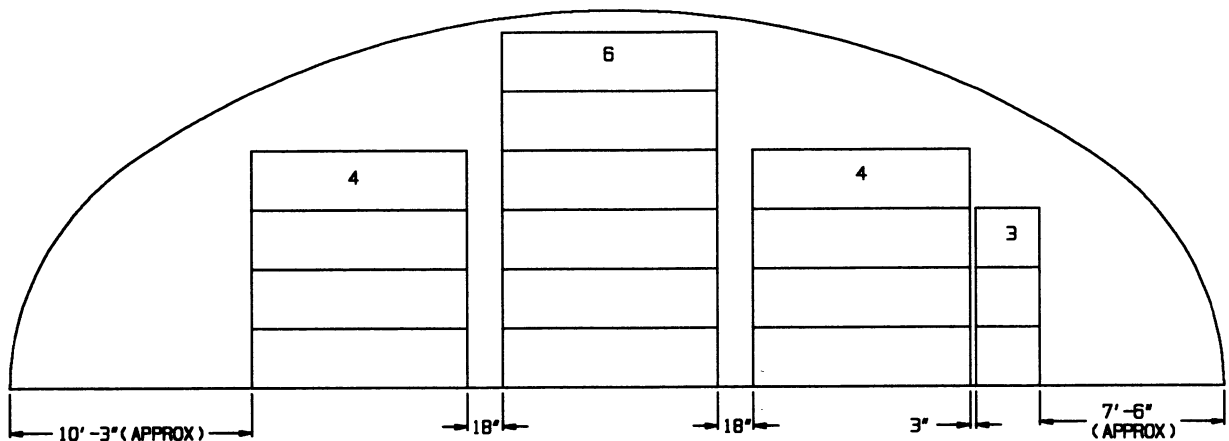
FOR "GENERAL NOTES", SEE PAGE 2.

STORAGE IN 52'-0" DIA CORBETTA MAGAZINE

ITEM	QUANTITY
CONTAINER - - - - -	174

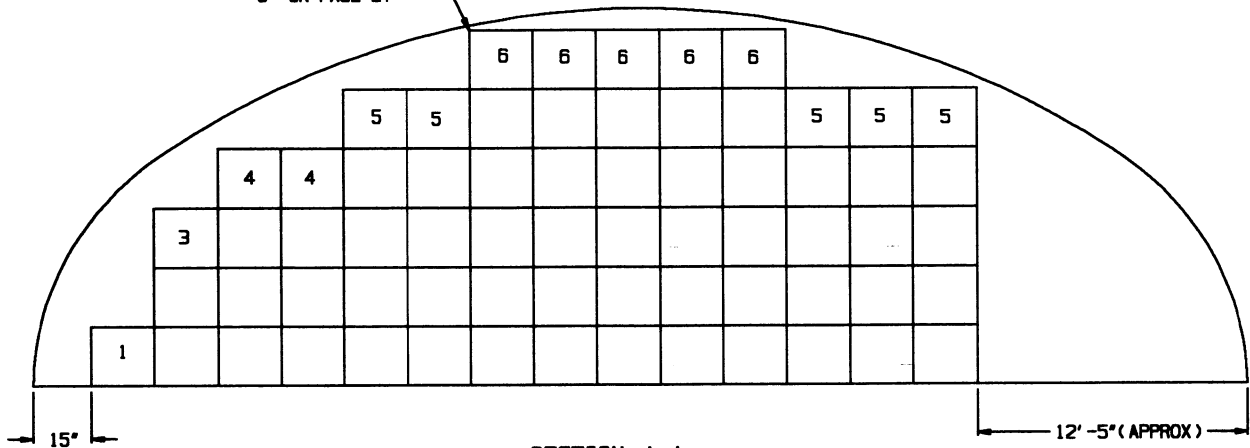


STORAGE PROCEDURES IN 52'-0" DIA CORBETTA MAGAZINE



SECTION H-H

SEE GENERAL NOTE "J" ON PAGE 2.

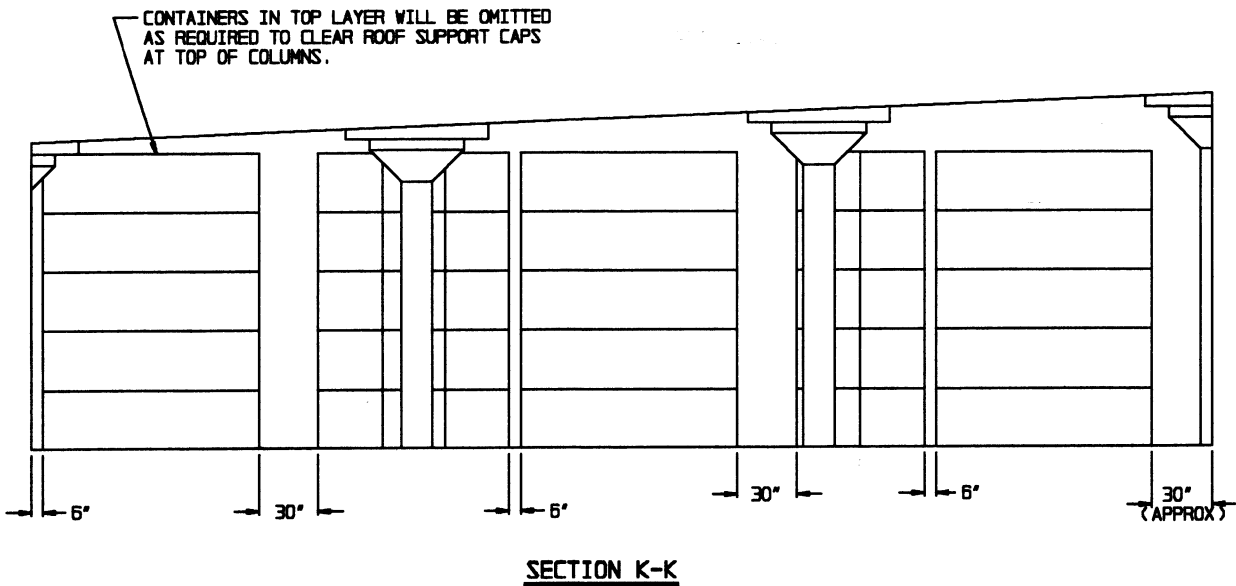
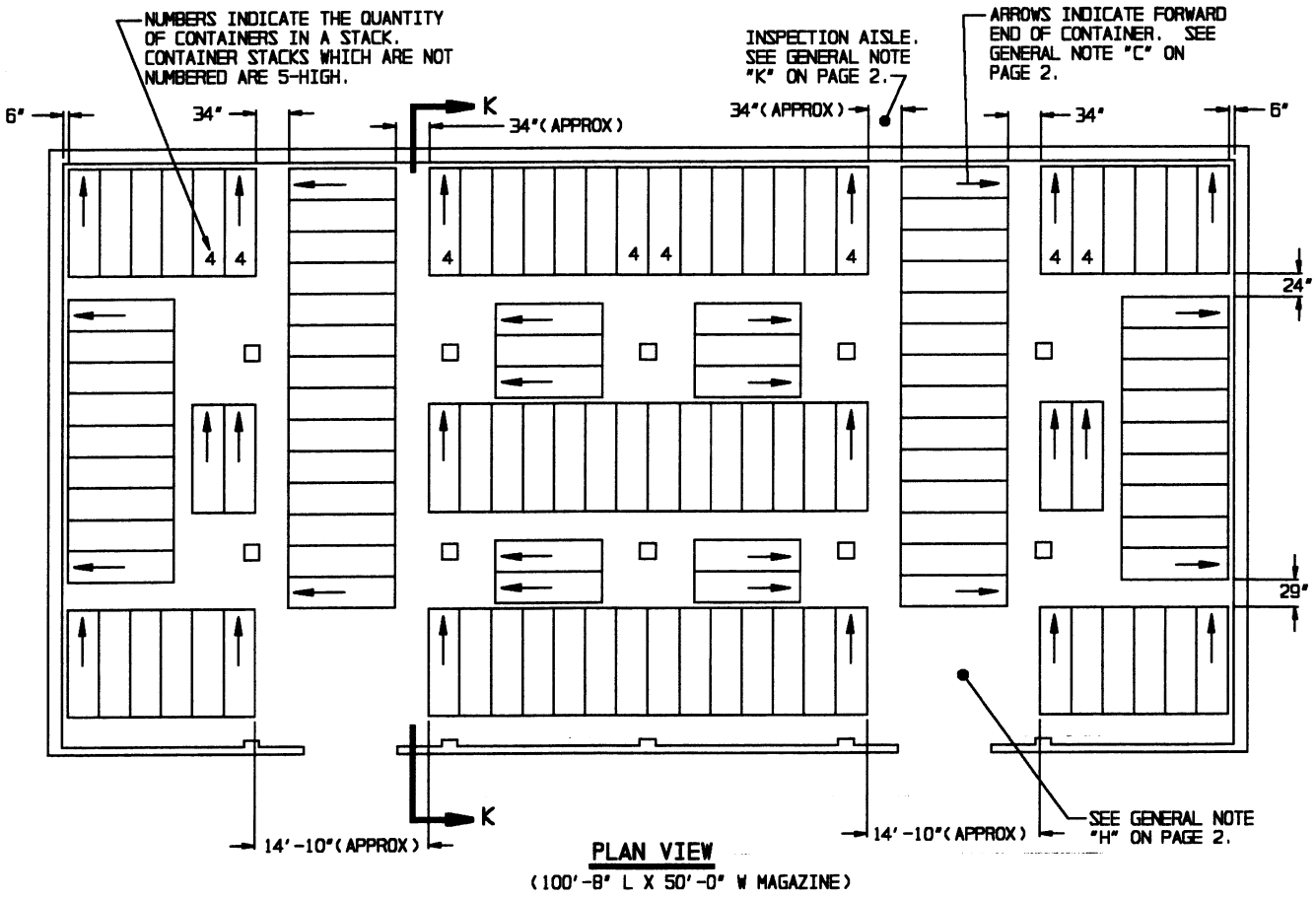


SECTION J-J

FOR "GENERAL NOTES", SEE PAGE 2.

SPECIAL NOTES FOR STORAGE OF MULTIPLE LOTS:

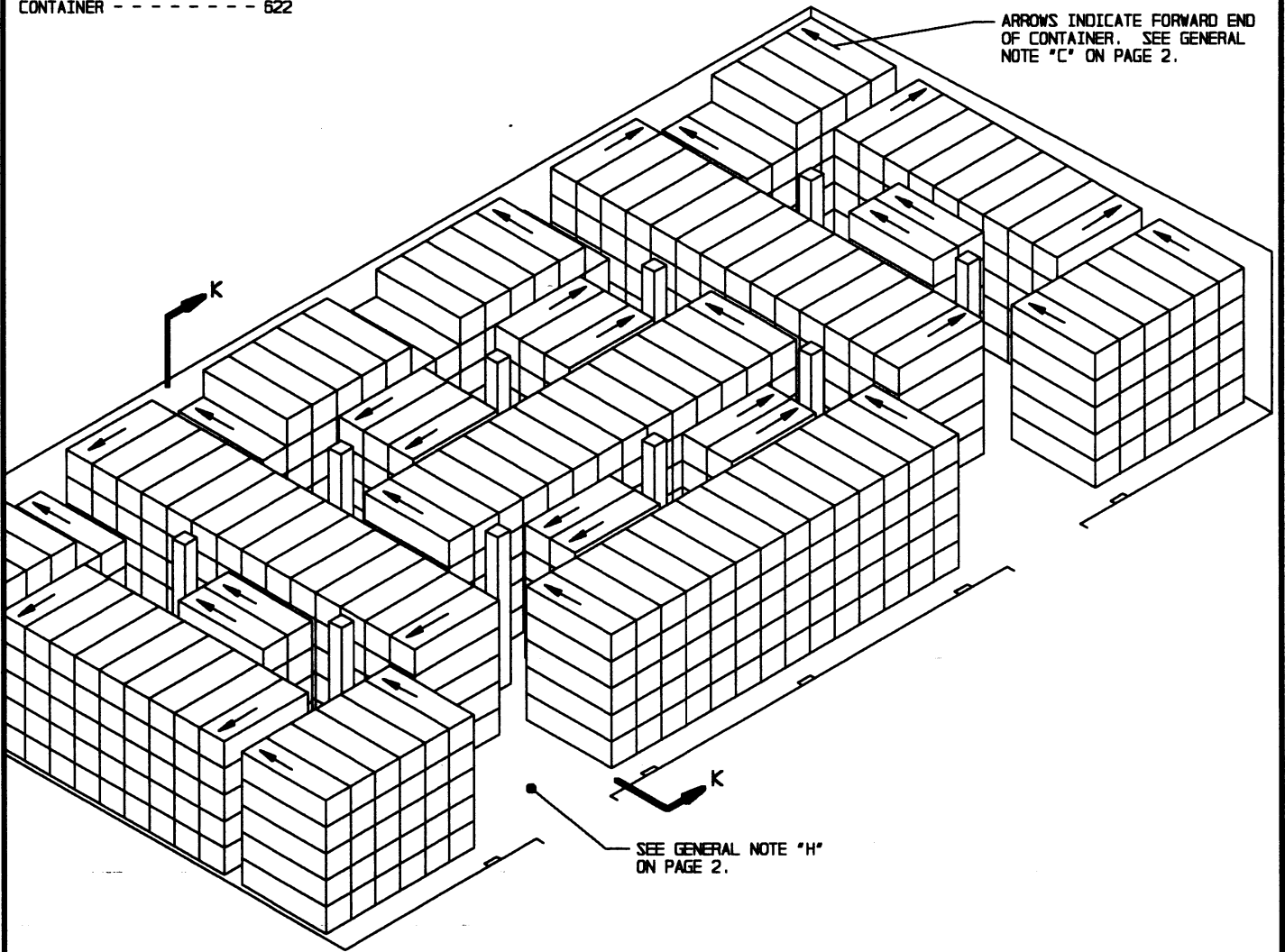
1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE AND ON PAGE 18 CAN BE USED FOR STORING MULTIPLE LOTS. THE STORAGE PATTERN WILL BE THE SAME AS SHOWN BY THE "PLANVIEW" ON PAGE 18, EXCEPT THAT TEN (10) CONTAINER STACKS WILL BE OMITTED FROM THE MHE AISLE TO COMPLY WITH SPECIAL NOTE 3 RELATIVE TO (12) LIFTS.
2. AISLE DIMENSIONS SHOWN HEREIN MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE HANDLING EQUIPMENT. HOWEVER, AN 18" (MIN) INSPECTION AISLE MUST BE MAINTAINED FOR INSPECTION OF HUMIDITY INDICATORS.
3. GENERALLY, THE LARGEST LOT SHOULD BE STORED ON ONE SIDE OF THE MAGAZINE. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. CONTAINERS OF A SINGLE LOT 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. A "LIFT" MAY CONSIST OF ONE (1) OR MORE CONTAINERS, PROVIDING THE CAPACITY OF MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
4. FOR ADDITIONAL GUIDANCE, SEE GENERAL NOTES "O" AND "P" ON PAGE 2.



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

<u>ITEM</u>	<u>QUANTITY</u>
CONTAINER - - - - -	622

ARROWS INDICATE FORWARD END OF CONTAINER. SEE GENERAL NOTE "C" ON PAGE 2.

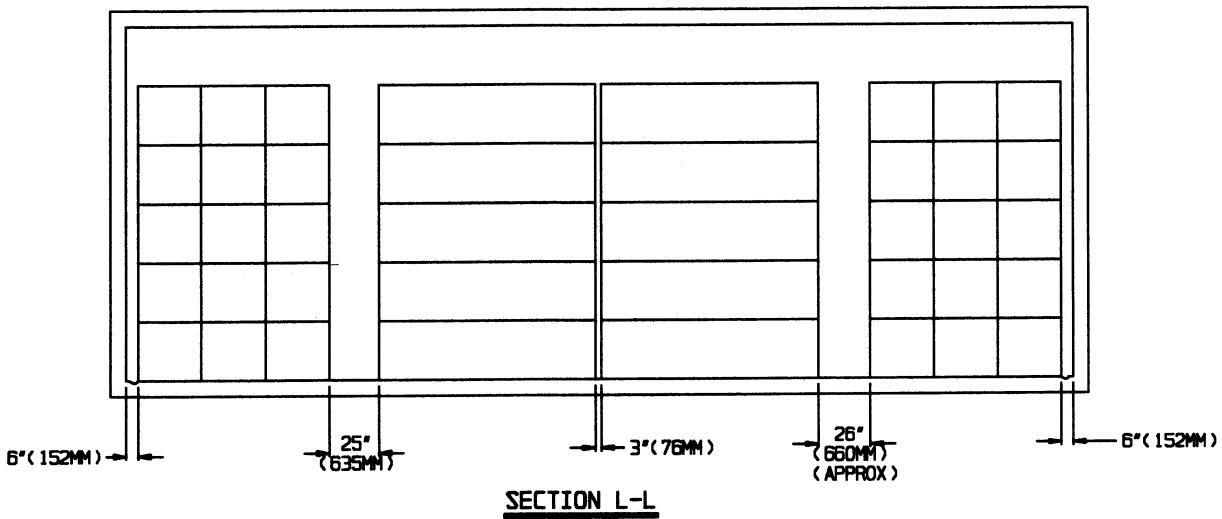
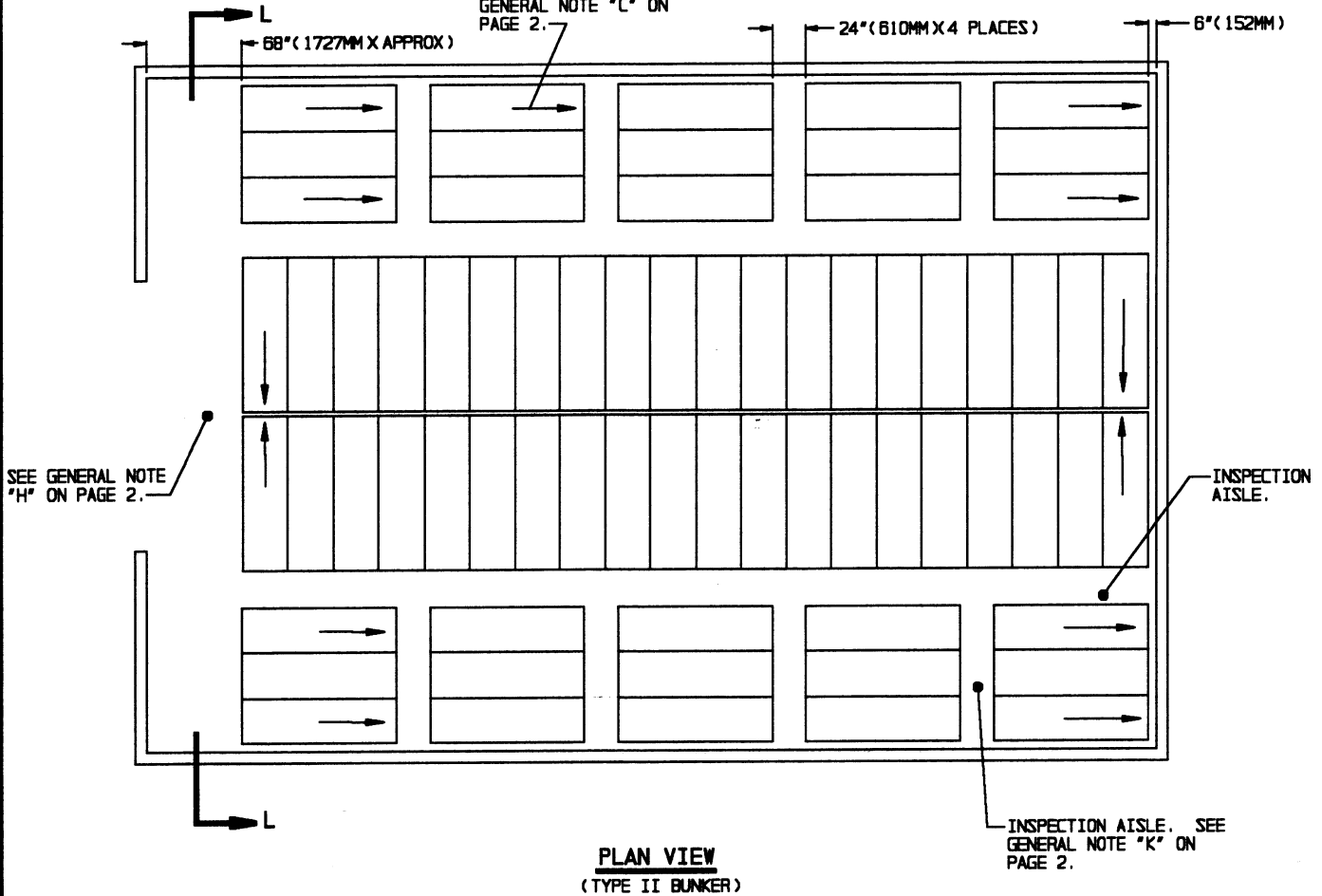


SEE GENERAL NOTE "H" ON PAGE 2.

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

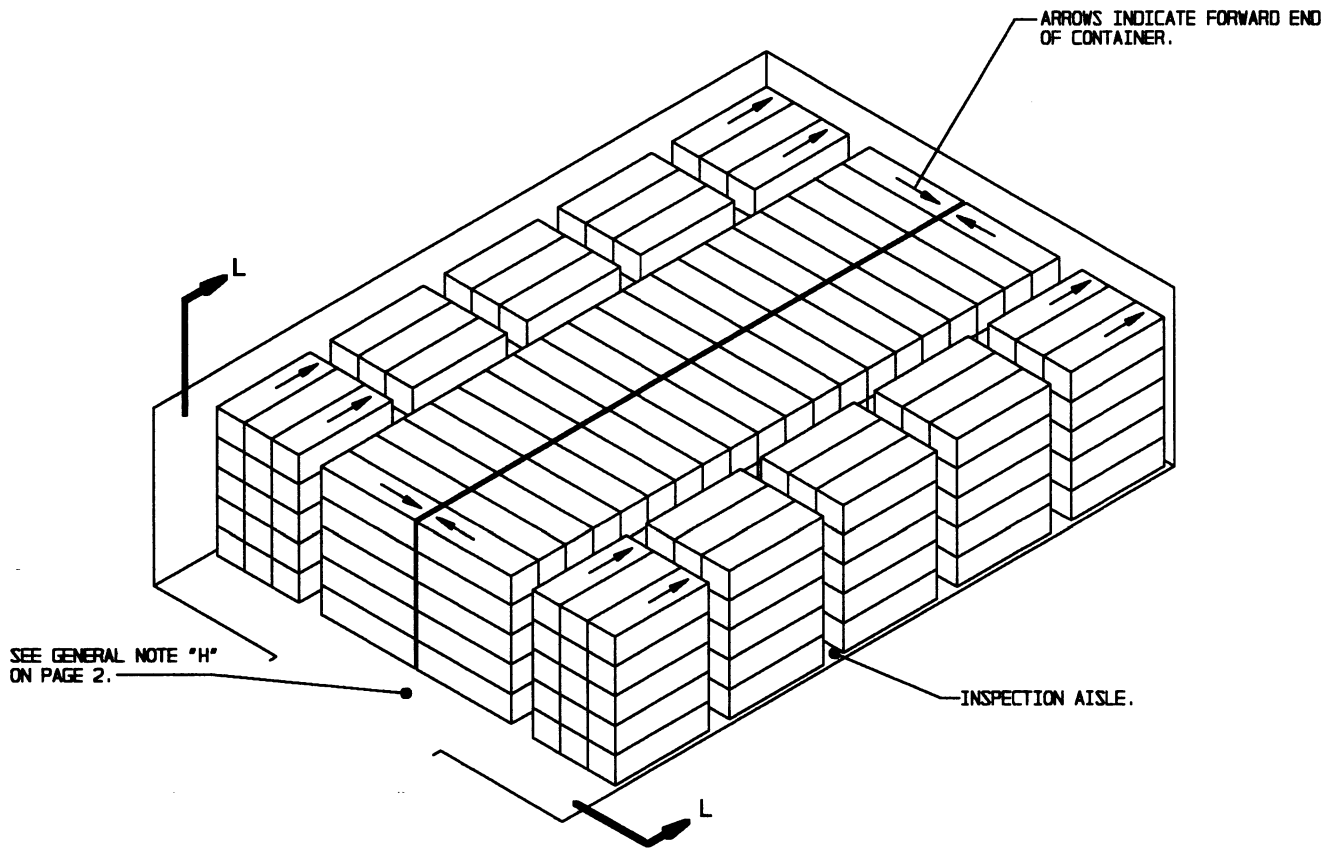
FOR "GENERAL NOTES", SEE PAGE 2.

ARROWS INDICATE FORWARD
END OF CONTAINER. SEE
GENERAL NOTE "C" ON
PAGE 2.



STORAGE IN TYPE II BUNKER

<u>ITEM</u>	<u>QUANTITY</u>
CONTAINER - - - - -	350

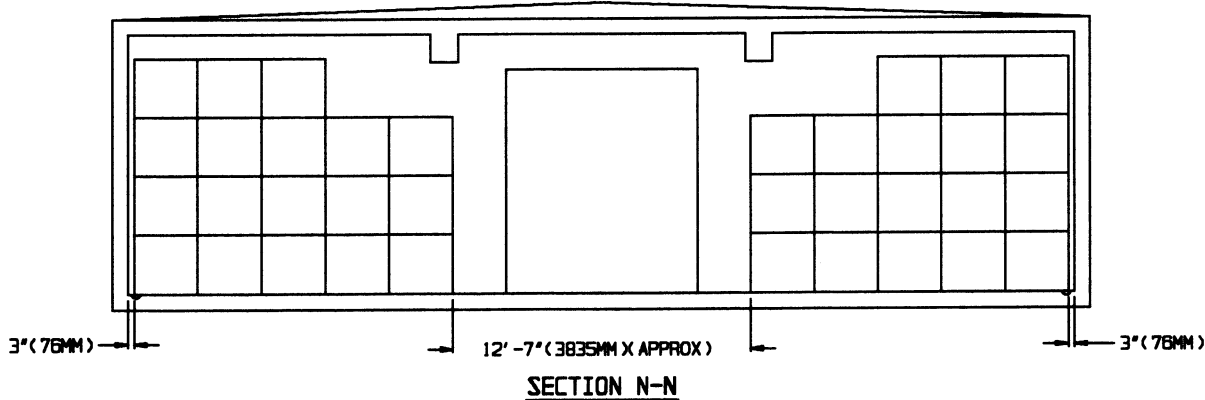
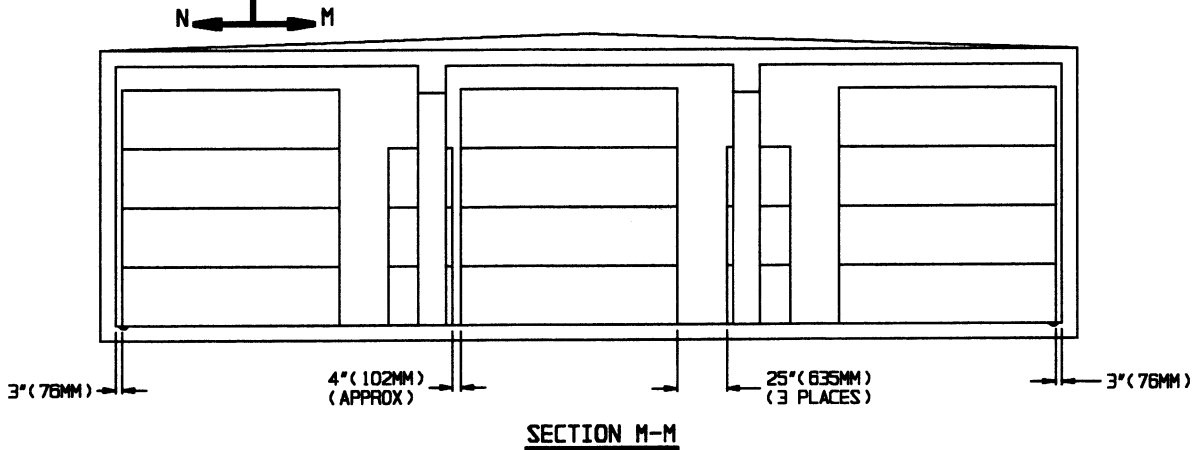
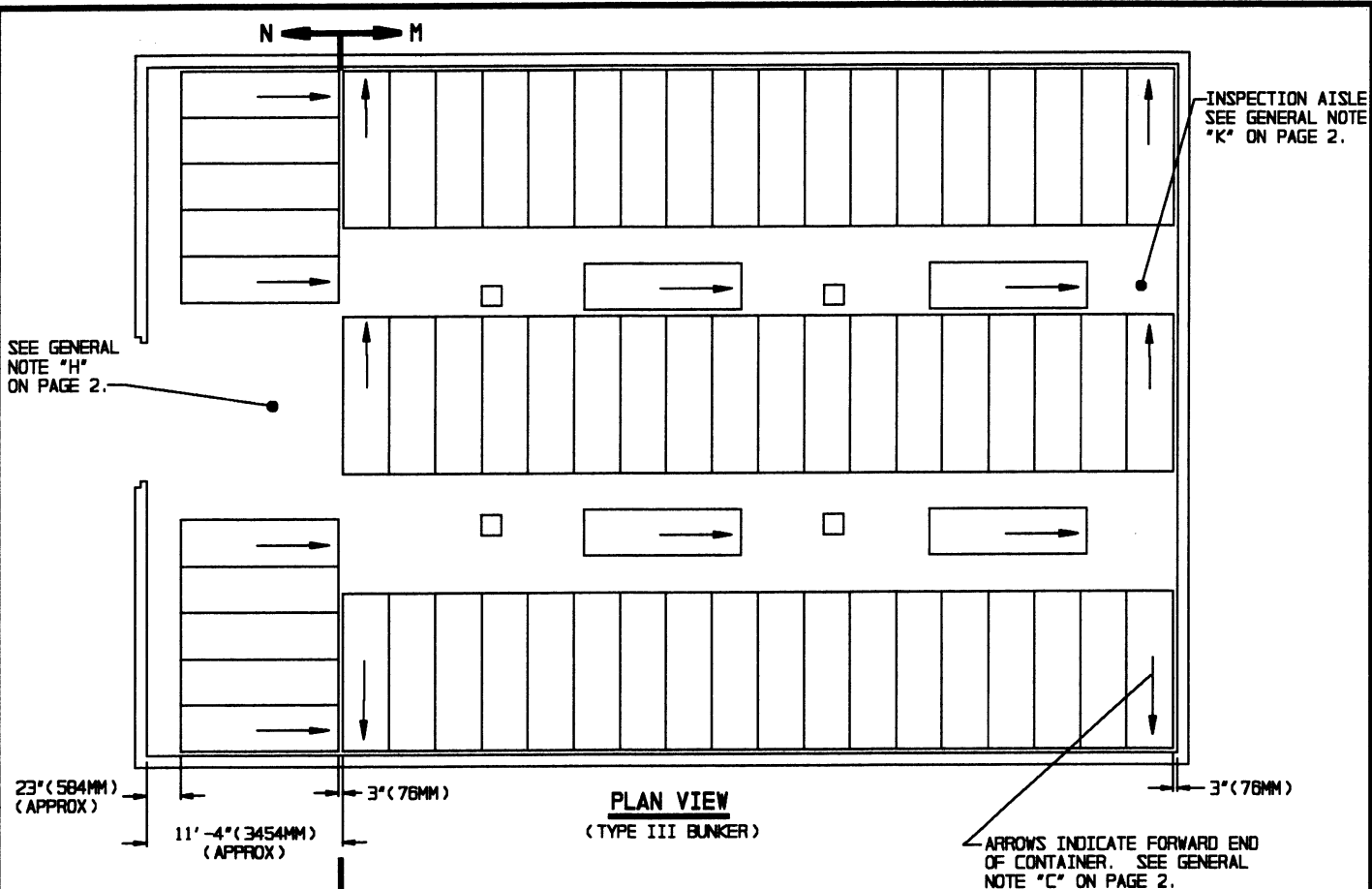


ISOMETRIC VIEW
(TYPE II BUNKER)

SPECIAL NOTE FOR MULTIPLE LOTS:

THE BASIC STORAGE PATTERN AS SHOWN ON THIS PAGE AND PAGE 22 CAN BE ADAPTED FOR STORING MULTIPLE LOTS AS SPECIFIED BY GENERAL NOTE "P" ON PAGE 2, OR THE STORAGE PROCEDURES SHOWN ON PAGE 26 MAY BE APPLIED. NOTE THAT THE "SPECIAL NOTES" ON PAGE 28 WILL APPLY FOR EITHER METHOD.

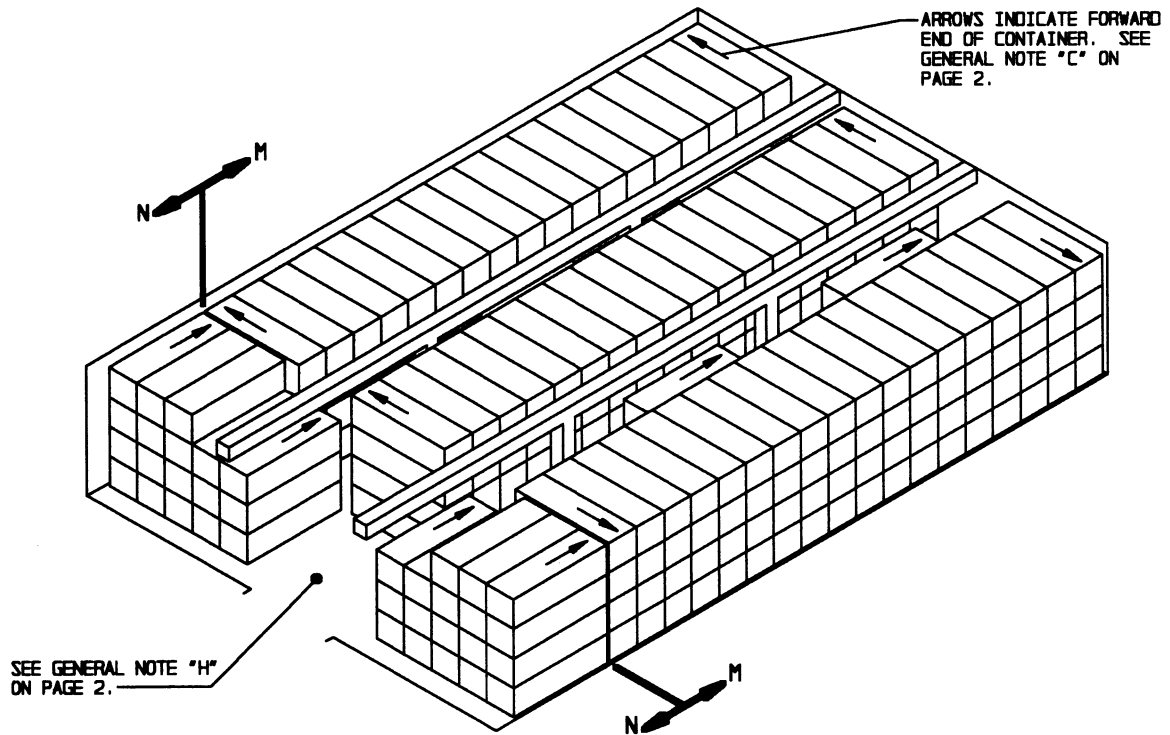
FOR "GENERAL NOTES", SEE PAGE 2.



STORAGE PROCEDURES IN 60'-0" L X 40'-0" W X 11'-0" H TYPE III BUNKER

STORAGE IN TYPE III BUNKER

<u>ITEM</u>	<u>QUANTITY</u>
CONTAINER - - - - -	264



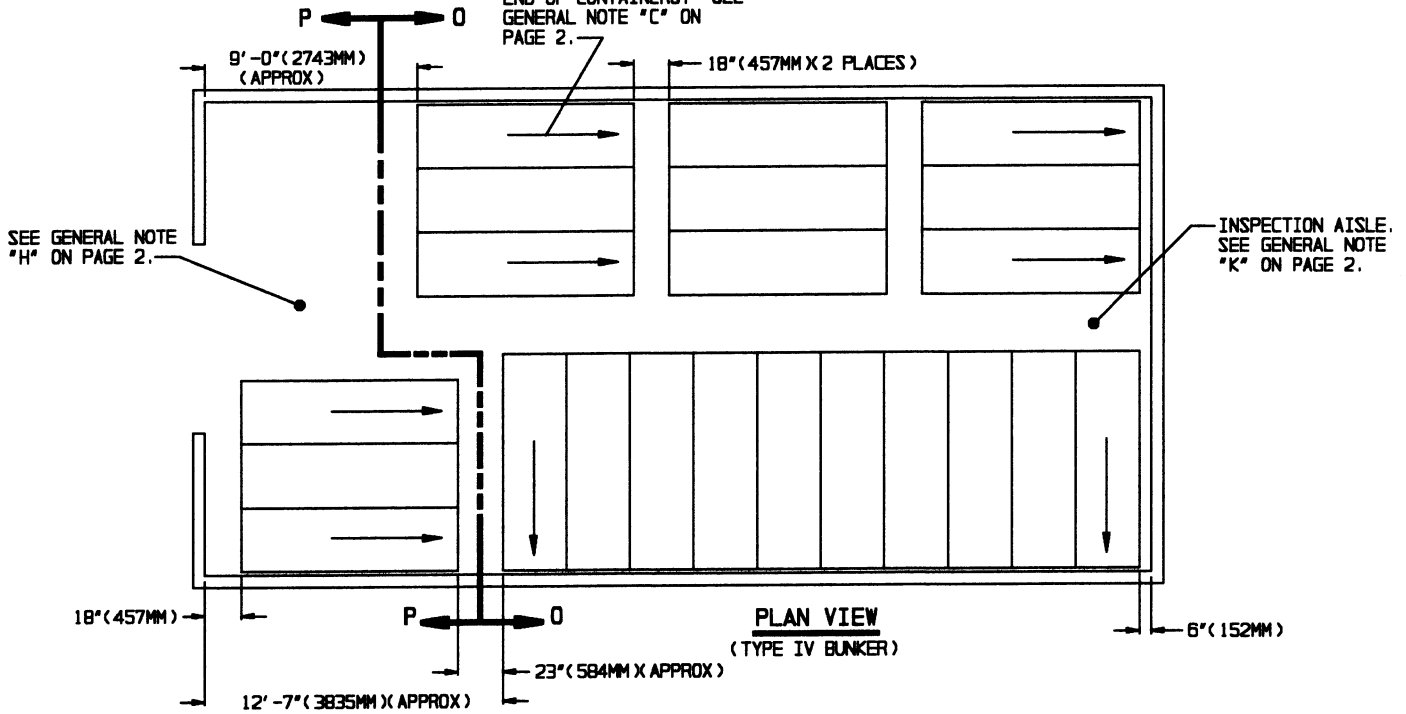
ISOMETRIC VIEW
(TYPE III BUNKER)

SPECIAL NOTE FOR MULTIPLE LOTS:

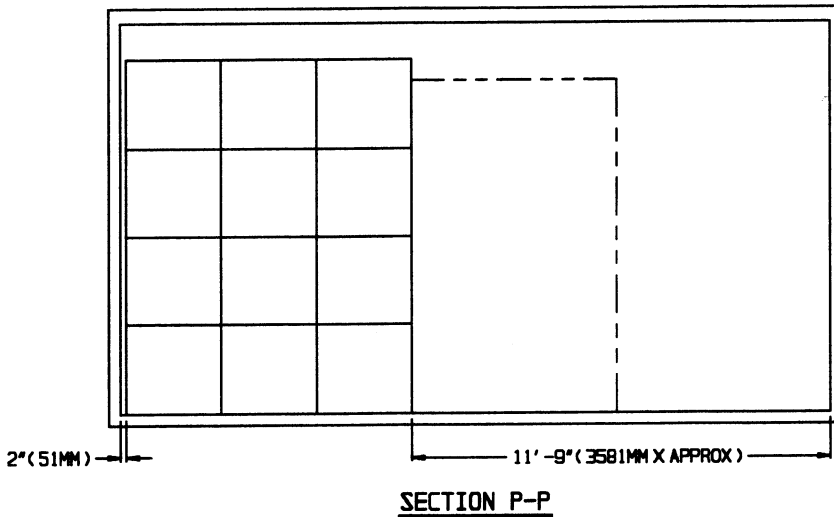
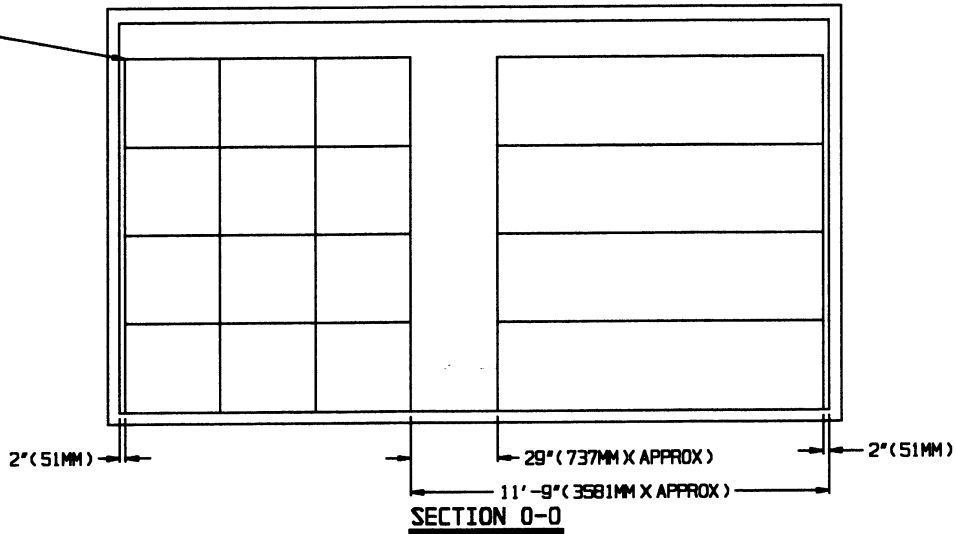
THE BASIC STORAGE PATTERN AS SHOWN ON THIS PAGE AND PAGE 24 CAN BE ADAPTED FOR STORING MULTIPLE LOTS AS SPECIFIED BY GENERAL NOTE "P" ON PAGE 2, OR THE STORAGE PROCEDURES SHOWN ON PAGE 28 MAY BE APPLIED. NOTE THAT THE "SPECIAL NOTES" ON PAGE 28 WILL APPLY FOR EITHER METHOD.

FOR "GENERAL NOTES", SEE PAGE 2.

ARROWS INDICATE FORWARD
END OF CONTAINERS. SEE
GENERAL NOTE "C" ON
PAGE 2.



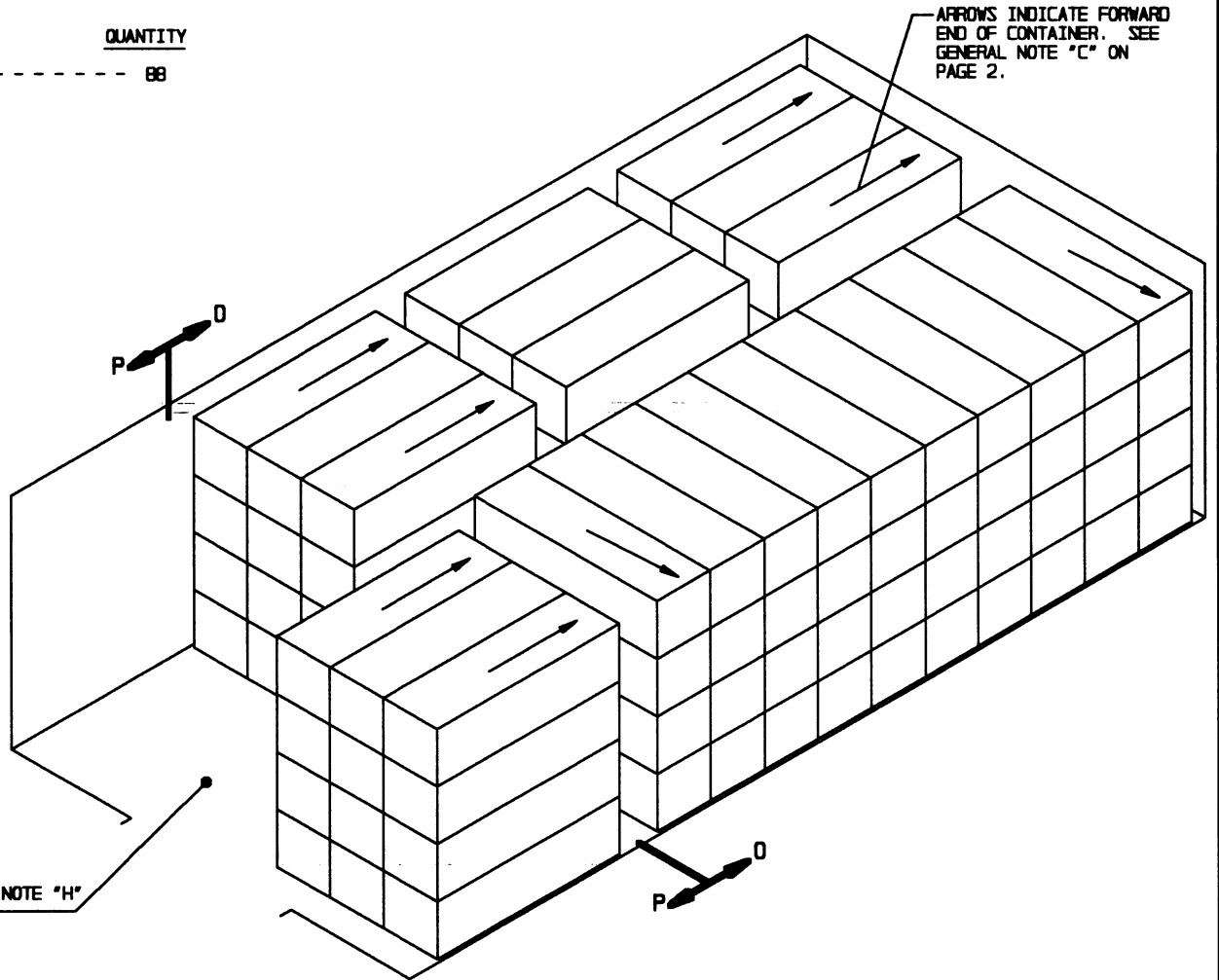
SEE GENERAL NOTE
"J" ON PAGE 2.



STORAGE PROCEDURES IN 40'-0" L X 20'-0" W X 11'-0" H TYPE IV BUNKER

STORAGE IN TYPE IV BUNKER

<u>ITEM</u>	<u>QUANTITY</u>
CONTAINER - - - - -	88

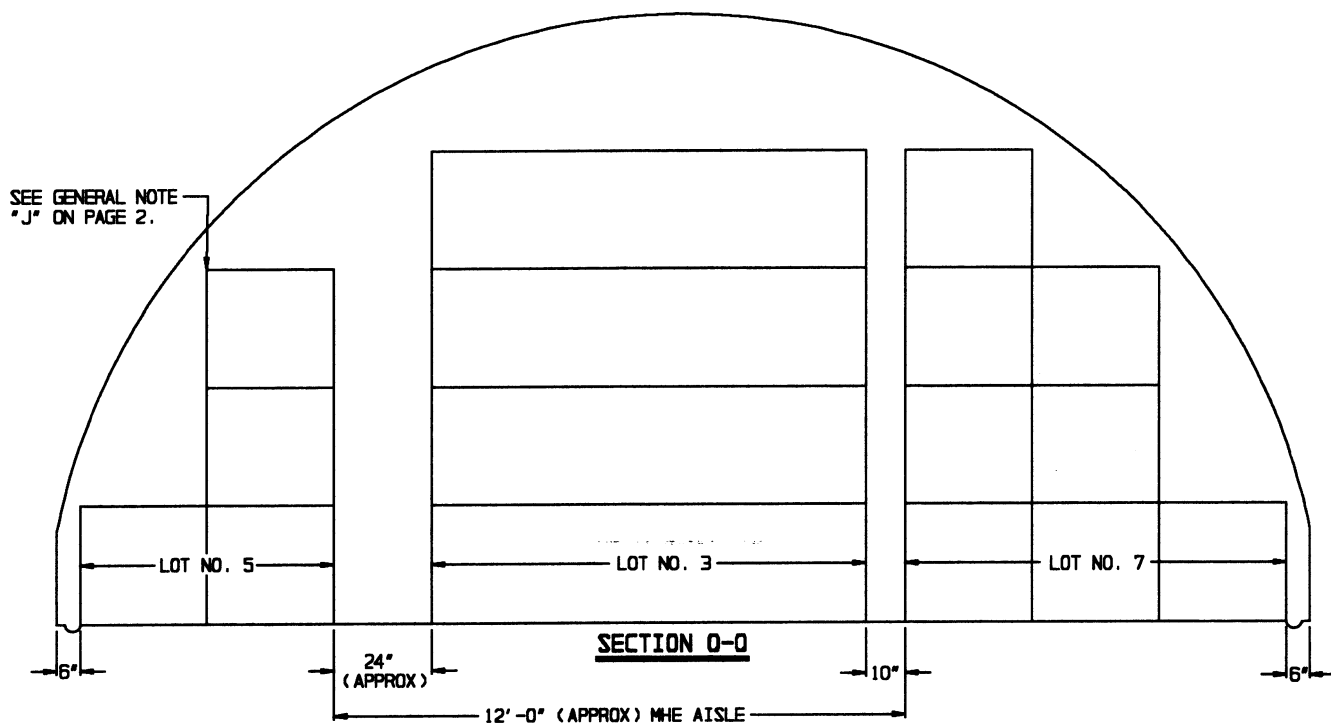
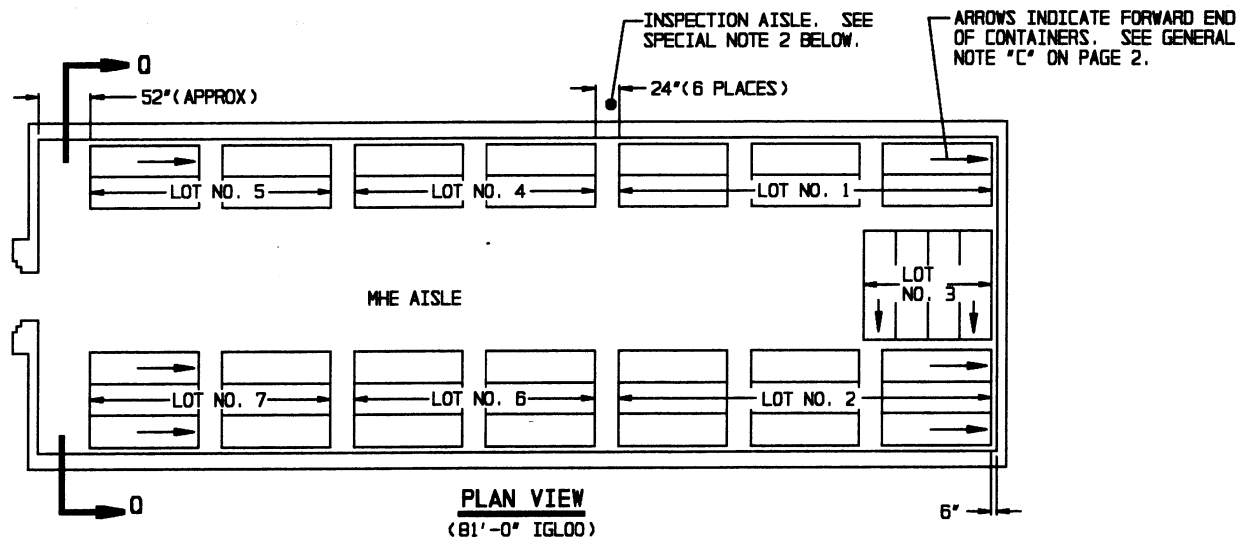


ISOMETRIC VIEW
(TYPE IV BUNKER)

SPECIAL NOTE FOR MULTIPLE LOTS:

THE BASIC STORAGE PATTERN AS SHOWN ON THIS PAGE AND PAGE 26 CAN BE ADAPTED FOR STORING MULTIPLE LOTS AS SPECIFIED BY GENERAL NOTE "P" ON PAGE 2, OR THE STORAGE PROCEDURES SHOWN ON PAGE 28 MAY BE APPLIED. NOTE THAT THE "SPECIAL NOTES" ON PAGE 28 WILL APPLY FOR EITHER METHOD.

FOR "GENERAL NOTES", SEE PAGE 2.



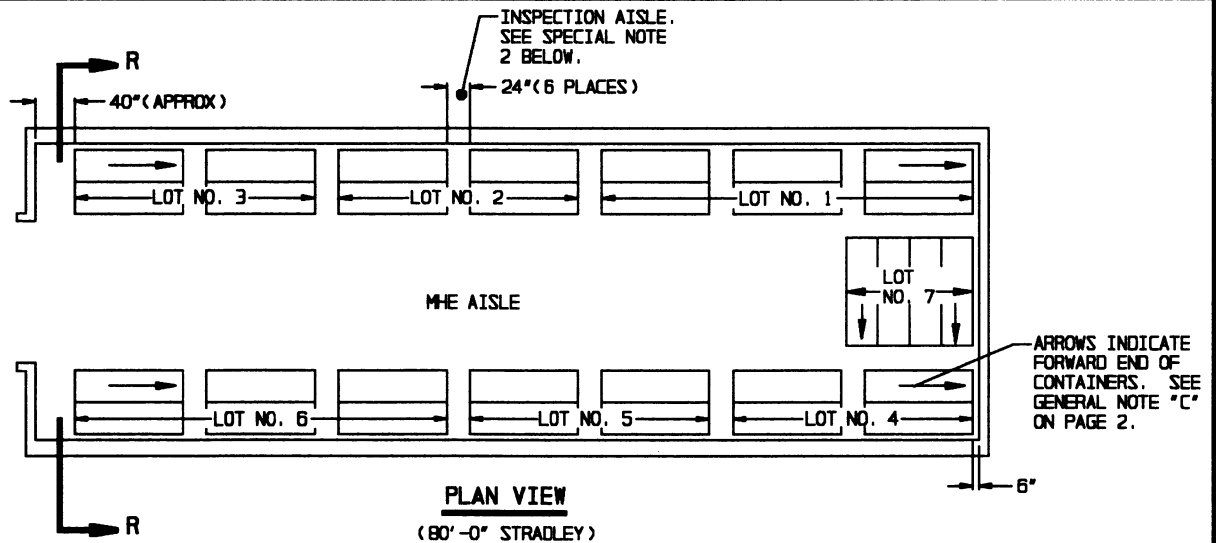
SPECIAL NOTES:

1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AISLE DIMENSIONS SHOWN HEREIN MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE HANDLING EQUIPMENT. HOWEVER, AN 18" (MIN) INSPECTION AISLE MUST BE MAINTAINED FOR INSPECTION OF HUMIDITY INDICATORS.
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. 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.

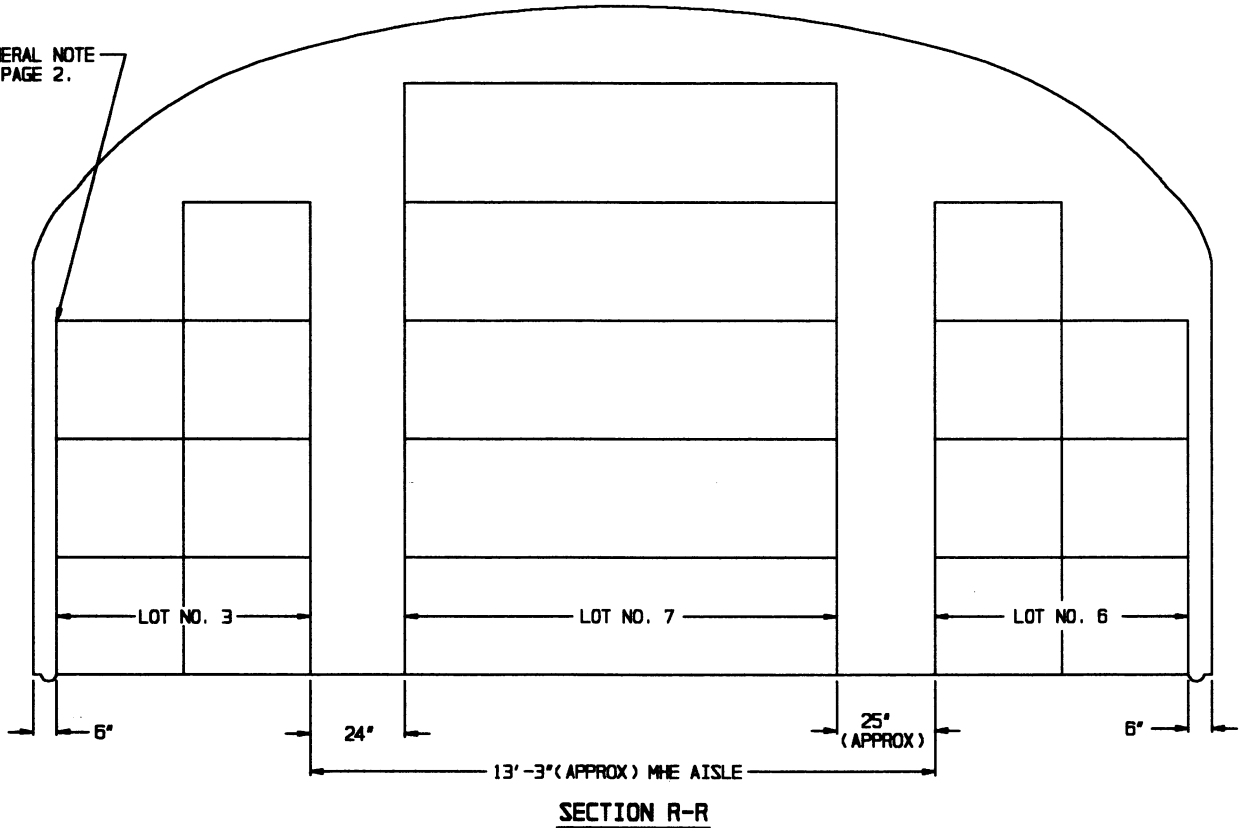
(SPECIAL NOTES CONTINUED)

4. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. CONTAINERS OF A SINGLE-LOT 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 CONTAINERS. A "LIFT" MAY CONSIST OF ONE (1) OR MORE CONTAINERS, PROVIDING THE CAPACITY OF MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
5. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDEWALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
6. FOR ADDITIONAL GUIDANCE, SEE GENERAL NOTES "O" AND "P" ON PAGE 2.

(CONTINUED AT RIGHT)



SEE GENERAL NOTE "J" ON PAGE 2.



SPECIAL NOTES:

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(SPECIAL NOTES CONTINUED)

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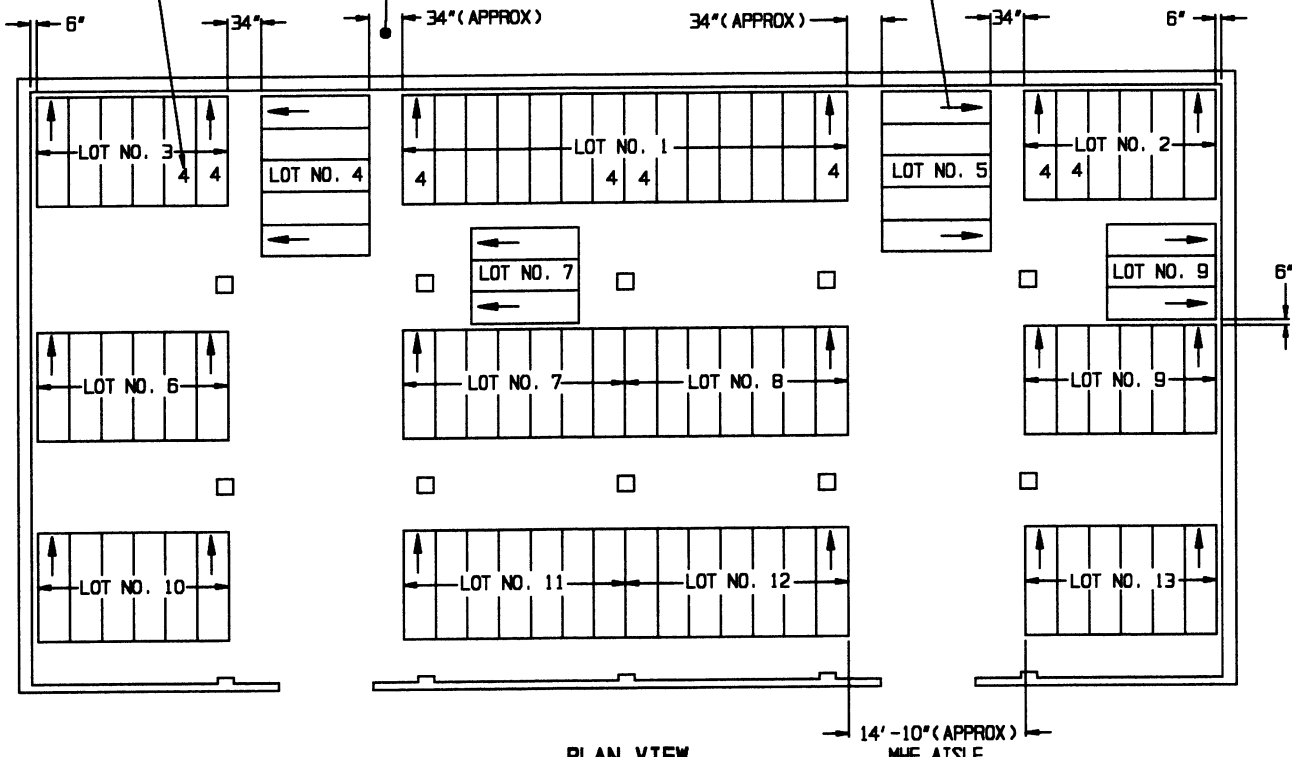
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TYPICAL MULTIPLE-LOT STORAGE IN STRADLEY MAGAZINE

NUMBERS INDICATE THE QUANTITY OF CONTAINERS IN A STACK. CONTAINER STACKS WHICH ARE NOT NUMBERED ARE 5 HIGH.

INSPECTION AISLE. SEE SPECIAL NOTE 2 BELOW.

ARROWS INDICATE FORWARD END OF CONTAINERS. SEE GENERAL NOTE "C" ON PAGE 2.



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

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3. GENERALLY, 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 MHE. CONTAINERS OF A SINGLE-LOT ARE CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWENTY-FOUR (24) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THE SINGLE-LOT CONTAINERS. A "LIFT" MAY CONSIST OF ONE (1) OR MORE CONTAINERS, PROVIDING THE CAPACITY OF MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
4. FOR ADDITIONAL GUIDANCE, SEE GENERAL NOTES "O" AND "P" ON PAGE 2.