STORAGE IN APPROVED MAGAZINES OF CHARGE, DEMOLITION, LINEAR, HE M58, M58A1 & M58A2 AND INERT M68 & M68A1, IN METAL SHIPPING AND STORAGE CONTAINER

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| U.S. ARMY MATERIEL COMMAND DRAWING | | | | | |
|--|---------------------|----------|-----------------------|-------------|-----------|
| APPROVED, U.S. ARMY ARMA CHEMICAL COMMAND NAM | MENT, MUNITIONS AND | DRAFTSMA | AN | INGEBORG DE | PPE |
| David a fire | houl | ENGINEER | R | M. DAEUMER | Ĺ |
| AMSTA-AR-ESK | | | ENGINEERING VISION | bladle | Sprague |
| APPROVED BY ORDER OF COMMAND ARMY MATERIEL COMMAND | | | S ENGINEER OFFICE | ING Thor | - Meth |
| William 7 | Ernst | | | FEBRUAR' | Y 1986 |
| U.S. ARMY DEFENSE AMMUNI | | CLASS | NOISIVID | DRAWING | FILE |
| REVISION NO. 1 | JUNE 1995 | 19 | 48 | 4208 | 1-3-4-14- |
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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 HEREIN ARE APPLICABLE TO LINEAR DEMOLITION CHARGES, HE MSB, MSBA1 AND MSBA2 AND INERT M6B AND MSBA1, IN METAL SHIPPING AND STORAGE CONTAINER. SUBSEQUENT REFENCE TO CONTAINER MEANS THE SHIPPING AND STORAGE CONTAINER WITH CONTENTS.
- C. FOR DETAILS OF THE SHIPPING AND STORAGE CONTAINER, SEE THE DETAIL ON PAGE 3.

CONTAINER DIMENSIONS - - - 7'-10-3/4" L X 54" W X 25" H SEE GENERAL NOTE "R" AT RIGHT.

GROSS WEIGHT (APPROX)

WITH HE COMP C4, M58 CHARGE, DODIC MO25 - - - 3,000 LBS WITH HE COMP C4, M58A1 CHARGE, DODIC MO25 - - 3,000 LBS WITH HE COMP C54, M58A1 CHARGE, DODIC M913 - - 3,000 LBS WITH HE COMP C4, M58A2 CHARGE, DODIC M913 - - 3,000 LBS WITH INERT, M68 CHARGE, DODIC MO51 - - - - - 3,000 LBS WITH INERT, M68A1 CHARGE, DODIC MO51 - - - - 3,000 LBS

CUBE - - - - - - - - - - - - 71.4 CUBIC FEET

- D. THIS ITEM, WHEN AN M58, M58A1 OR M58A2 CHARGE, IS A OD CLASS 1.1, COMP GROUP D EXPLOSIVE. TO PERMIT STORAGE OF THESE ITEMS, THE MAGAZINE MUST HAVE A DOOR OPENING NOT LESS THAN 5'-O" WIDE. HOWEVER, AN 8'-O" OR WIDER OPENING WILL FACILITATE HANDLING OPERATIONS. SEE GENERAL NOTE "P" AT RIGHT.
- E. 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. SEE GENERAL NOTE "M".
- F. AISLE DIMENSIONS SHOWN HEREIN MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE MATERIALS HANDLING FOUTPMENT.
- G. 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. SEE GENERAL NOTE "N".
- H. COVER SPANNER DUNNAGE, 2" X 6" X 54", AS DEPICTED IN THE STORAGE VIEWS, IS REQUIRED BETWEEN LAYERS UNDER SKIDS AT EACH END OF EACH CONTAINER. EACH UPPER LAYER CONTAINER WITHIN A STACK MUST BE POSITIONED IN THE SAME DIRECTION AS THE CONTAINER IMMEDIATELY BELOW. SO THAT ALL SKIDS ARE IN VERTICAL ALIGNMENT.
- J. IF AVAILABLE MHE PERMITS, ADDITIONAL CONTAINERS MAY BE STORED WITHIN THE FRONTAL AREA AND/OR OTHER AVAILABLE AREA OF THE MAGAZINE.
- K. STORED CONTAINERS MUST NOT CONTACT THE WALLS OF A MAGAZINE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, CONTAINERS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN AS NECESSARY.
- L. OTHER COMPATIBLE ITEMS MAY BE STORED IN A MAGAZINE WHICH IS PARTIALLY FILLED WITH THE DESIGNATED ITEM.
- M. TO ASSURE MAXIMUM STORAGE OF CONTAINERS, AS SHOWN HEREIN, CONTAINERS SHOULD BE STORED AS TIGHTLY AS POSSIBLE, LENGTHWISE AND WIDTHWISE. HOWEVER, IN SOME MAGAZINES, WHERE SPACE PERMITS, CONTAINERS MAY BE SLIGHTLY SEPARATED TO FACILITATE MHE PLACEMENT INTO THE STACKS.
- N. IF THE QUANTITY OF CONTAINERS FOR A DEPICTED 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. SEE GENERAL NOTE "L".

(CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

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

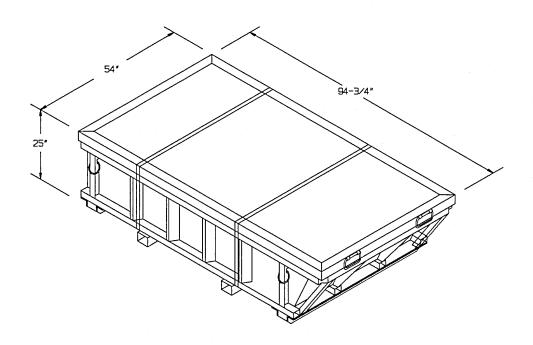
(GENERAL NOTES CONTINUED)

- O. 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.
- P. MAGAZINES WITH DOOR OPENING LESS THAN 8'-0" WIDE WILL REQUIRE END-HANDLING OF THE CONTAINERS THRU THE DOORWAY. SINCE THE DEPICTED CONTAINER DOES NOT HAVE BUILT-IN PROVISIONS FOR END-HANDLING, IT CAN BE PLACED ON BLOCKS OR OTHERWISE ELEVATED SUFFICIENTLY TO PERMIT PLACEMENT OF THE TINES OF TWO FORKLIFT TRUCKS OR PALLET JACKS UNDER THE SKIDS, AT BOTH ENDS OF THE CONTAINER AND THEN JOINTLY HANDLED THROUGH THE DOOR OPENING. OTHER METHODS AND EQUIPMENT, SUCH AS SECTIONS OF ROLLER CONVEYORS, ETC, MAY BE USED IF THEY PROVIDE FOR SAFE HANDLING OF THE CONTAINER THROUGH NARROWER DOOR OPENINGS.
- R. THIS DRAWING ORIGINALLY DEPICTED PROCEDURES FOR STORING
 THE DESIGNATED ITEMS WHEN PACKED IN A CONTAINER EQUIPPED
 WITH LATCHES AND HAVING OVERALL DIMENSIONS OF 7'-9" L X
 53" W X 25" H. IF THESE SLIGHTLY SHORTER AND NARROWER
 CONTAINERS ARE TO BE STORED, THIS REVISED DRAWING WILL
 APPLY
- 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 REVISED DOCUMENT.

REVISION

REVISION NO. 1, DATED JUNE 1995, CONSISTS OF:

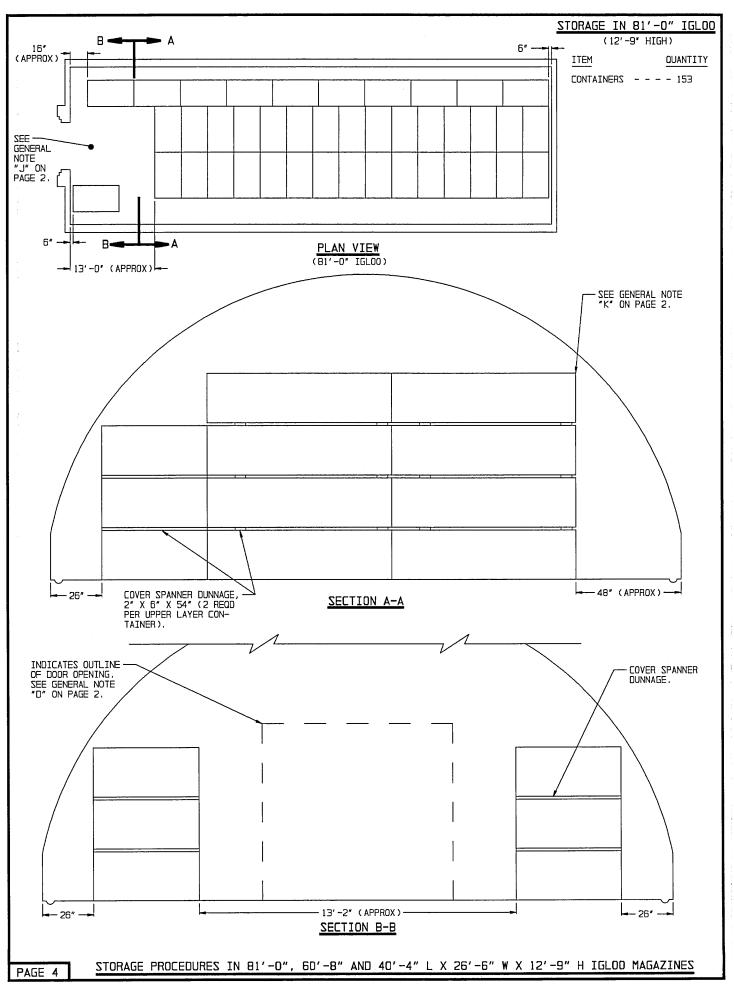
- UPDATING DRAWING FORMAT AND GENERAL NOTES TO CURRENT STANDARDS.
- 2. ADDING GENERAL NOTES "R" AND "S".
- 3. CHANGING DIMENSIONS IN THE STORAGE VIEWS, AS REQUIRED, TO FACILITATE STORAGE OF THE CONTAINER DEPICTED ON PAGE 3.
- 4. REVISING PROCEDURES AS REQUIRED.
- ADDING PROCEDURES FOR 89'-0" STEEL ARCH MAGAZINE.

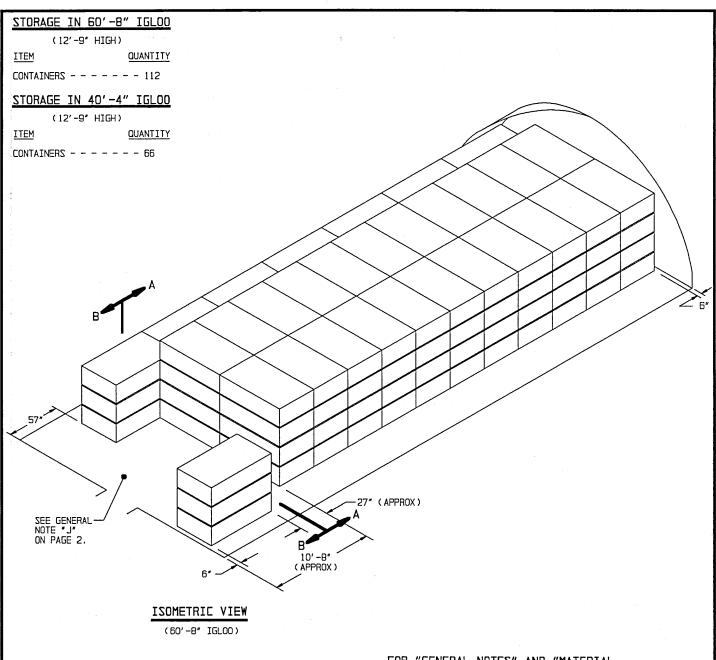


CONTAINER DETAIL

NOTE: CONTAINERS CANNOT BE STACKED UNLESS COVER SPANNER DUNNAGE IS PROVIDED UNDER SKIDS BETWEEN LAYERS. EACH UPPER LAYER CONTAINER WITHIN A STACK MUST BE POSITIONED IN THE SAME DIRECTION AS THE CONTAINER IMMEDIATELY BELOW SO THAT ALL SKIDS ARE IN VERTICAL ALIGNMENT.

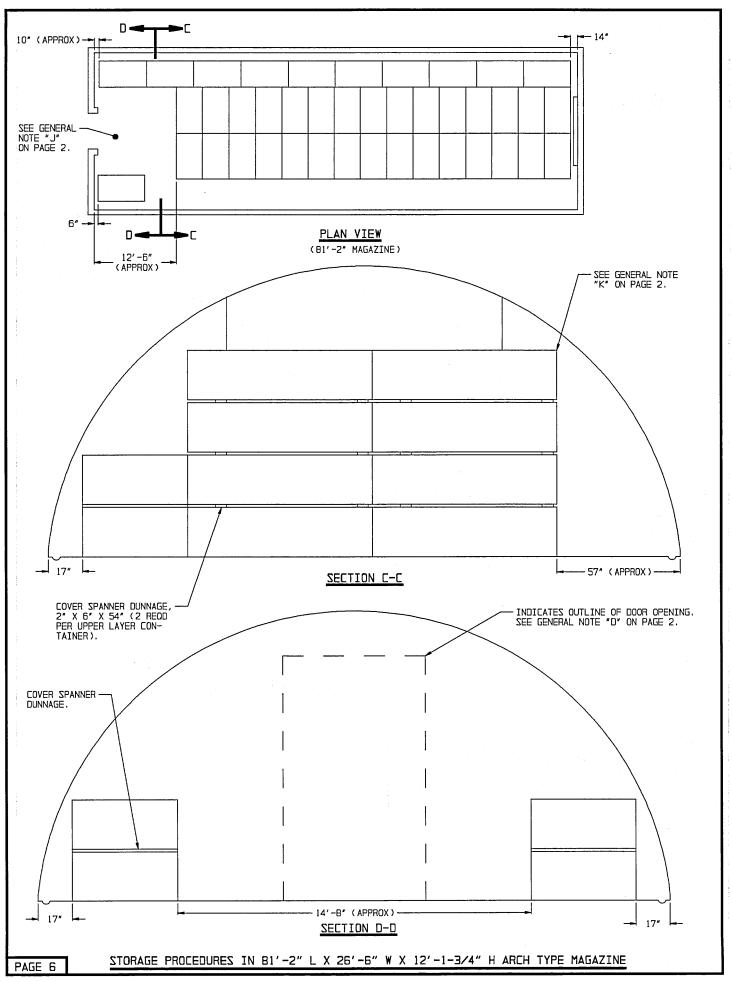
CONTAINER DETAIL

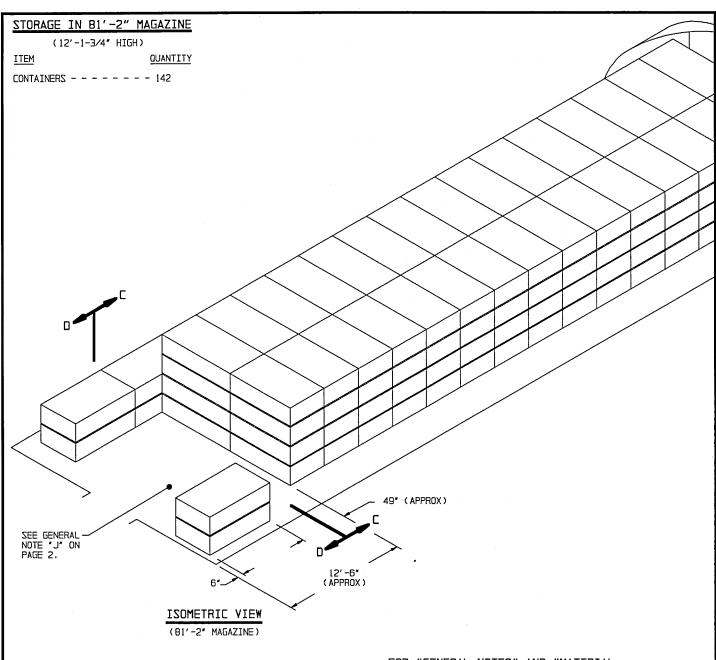




| BILL OF MATERIAL (PER UPPER LAYER CONTAINER) | | | |
|--|-------------|------------|--|
| LUMBER | LINEAR FEET | BOARD FEET | |
| 2″ X 6″ | 9 | 9 | |

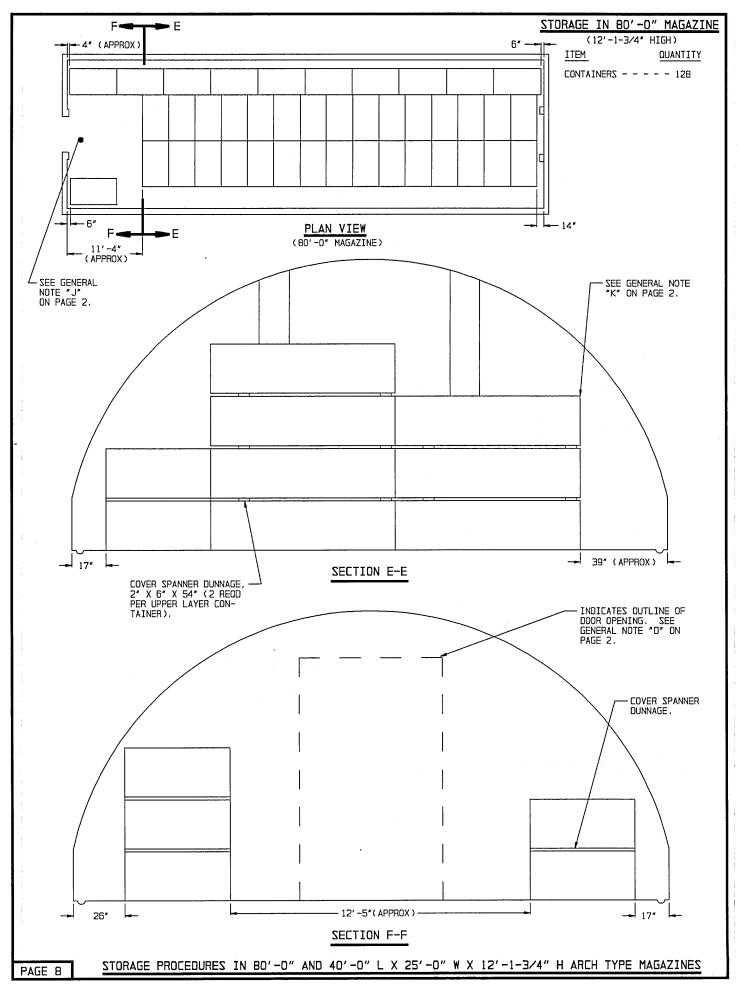
STORAGE PROCEDURES IN 81'-0", 60'-8" AND 40'-4" L X 26'-6" W X 12'-9" H IGLOO MAGAZINES





| BILL OF MATERIAL (PER UPPER LAYER CONTAINER) | | | |
|--|-------------|------------|--|
| LUMBER | LINEAR FEET | BOARD FEET | |
| 2" X 6" | 9 | 9 | |

STORAGE PROCEDURES IN 81'-2" L X 26'-6" W X 12'-1-3/4" H ARCH TYPE MAGAZINE

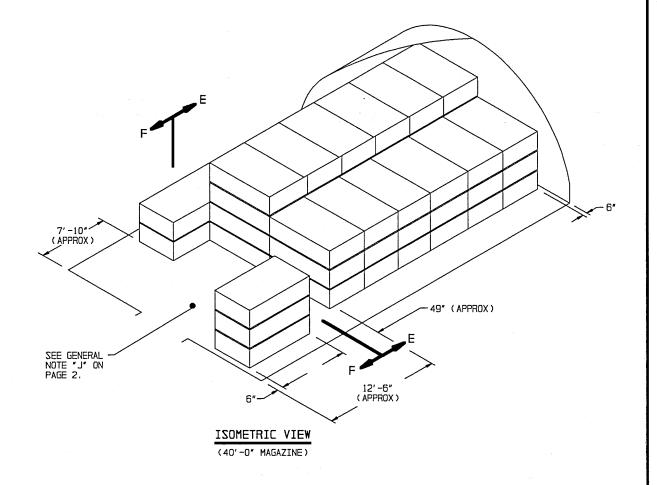


STORAGE IN 40'-0" MAGAZINE (12'-1-3/4" HIGH)

ITEM

QUANTITY

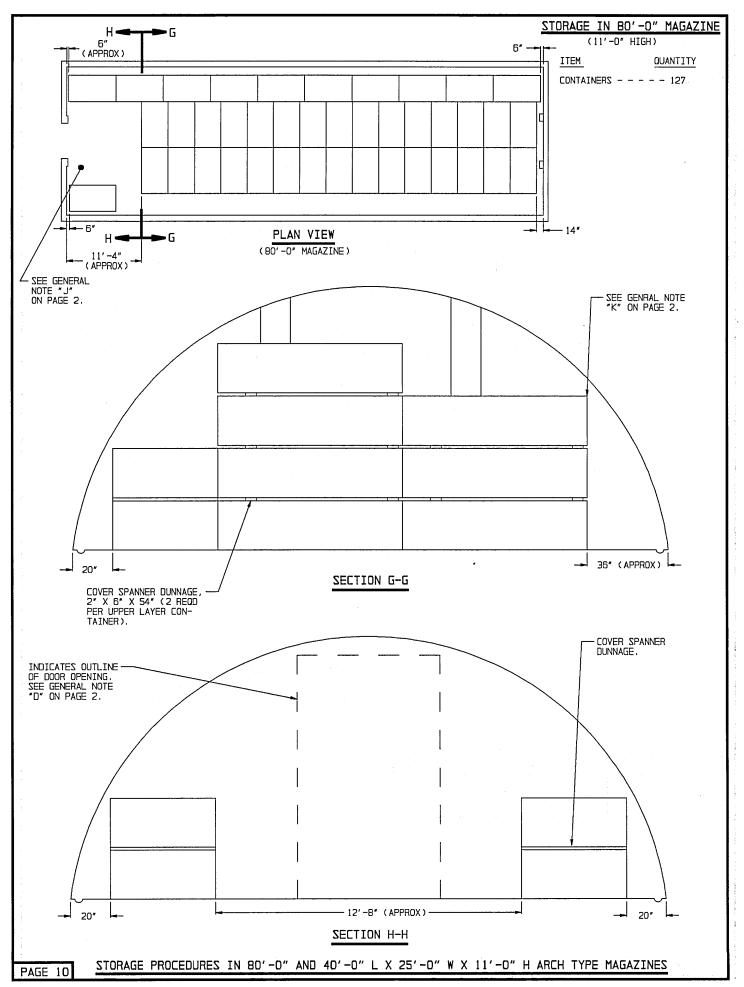
CONTAINERS - - - - - - - 53



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

| BILL OF MATERIA | AL (PER UPPER LA | YER CONTAINER) |
|-----------------|------------------|----------------|
| LUMBER | LINEAR FEET | BOARD FEET |
| 2" X 6" | 9 | 9 |

STORAGE PROCEDURES IN 80'-0" AND 40'-0" L X 25'-0" W X 12'-1-3/4" H ARCH TYPE MAGAZINES

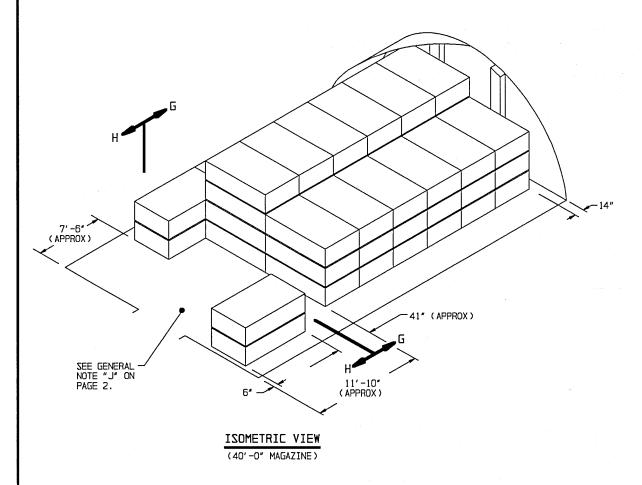


STORAGE IN 40'-0" MAGAZINE
(11'-0" HIGH)

ITEM

QUANTITY

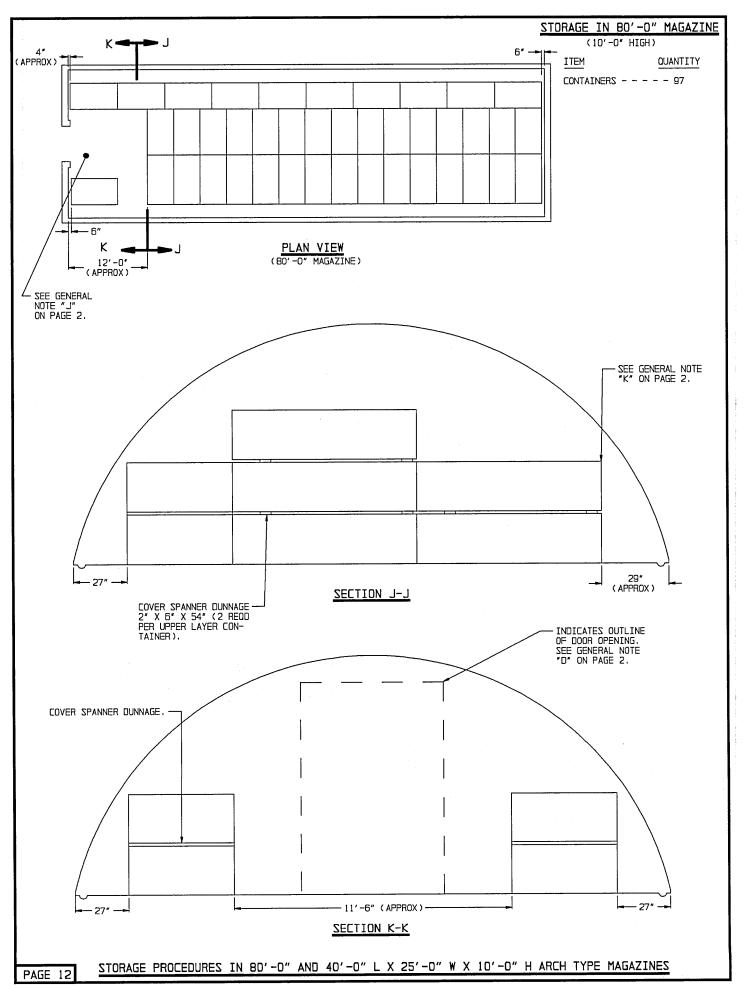
CONTAINERS - - - - - - - 52

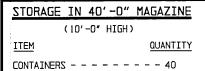


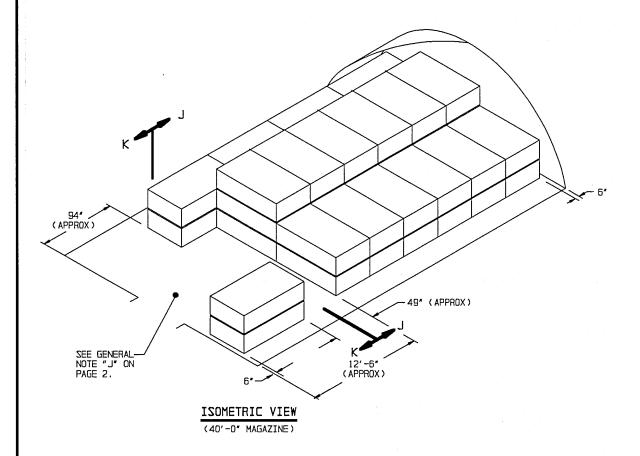
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

| BILL OF MATERIAL (PER UPPER LAYER CONTAINER) | | | |
|--|-------------|------------|--|
| LUMBER | LINEAR FEET | BOARD FEET | |
| 2" X 6" | 9 | 9 | |

STORAGE PROCEDURES IN 80'-0" AND 40'-0" L X 25'-0" W X 11'-0" H ARCH TYPE MAGAZINES

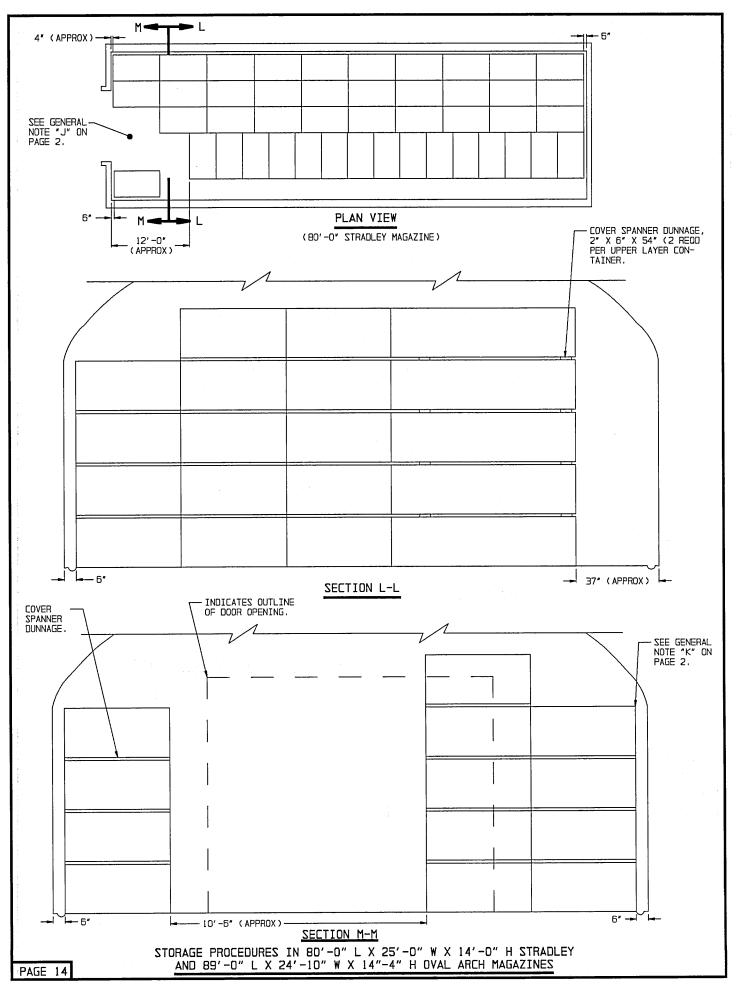


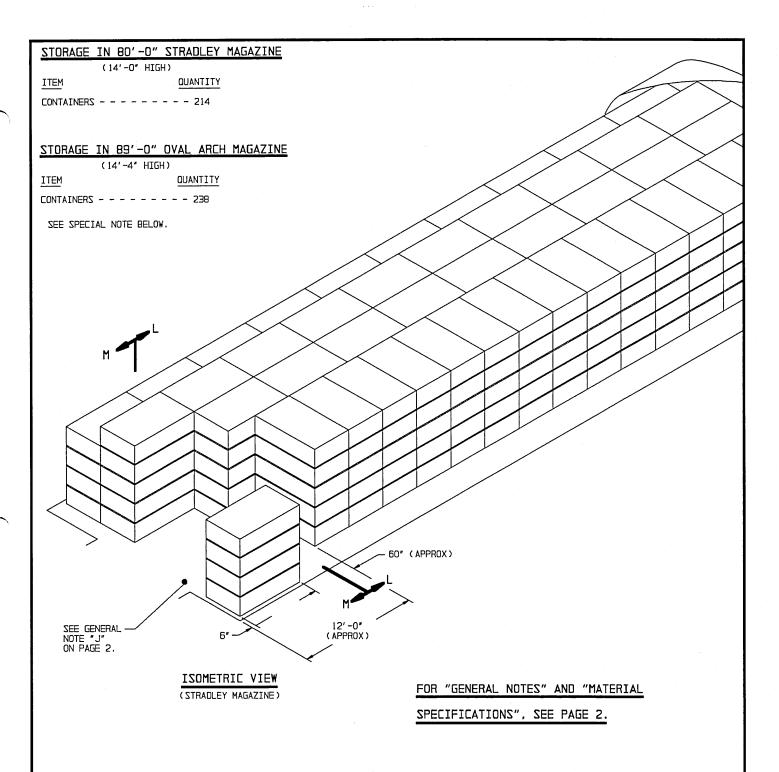




| BILL OF MATERIA | AL (PER UPPER LA | YER CONTAINER) |
|-----------------|------------------|----------------|
| LUMBER | LINEAR FEET | BOARD FEET |
| 2" X 6" | . 9 | 9 |

STORAGE PROCEDURES IN 80'-0" AND 40'-0" L X 25'-0" W X 10'-0" H ARCH TYPE MAGAZINES





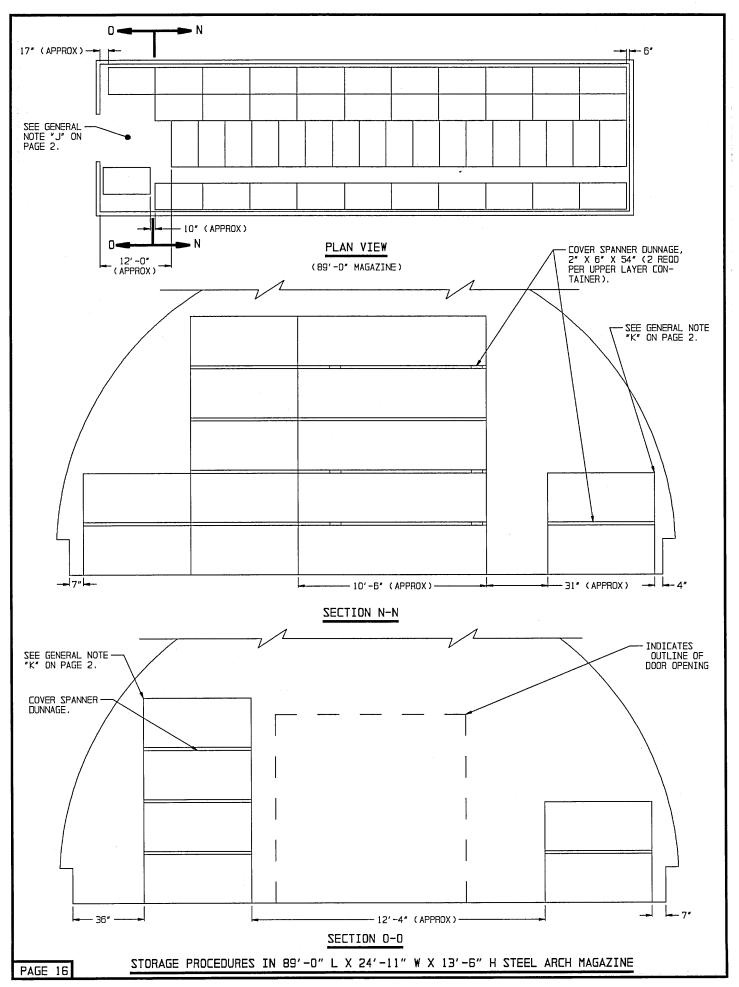
| BILL OF MATERIAL (PER UPPER LAYER CONTAINER) | | | |
|--|-------------|------------|--|
| LUMBER | LINEAR FEET | BOARD FEET | |
| 2" X 6" | 9 | 9 | |

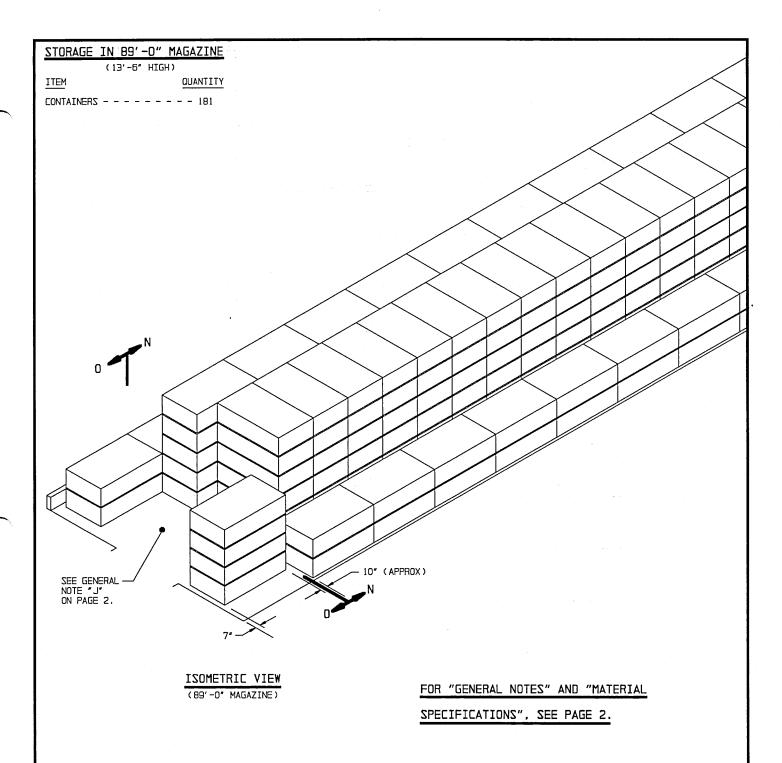
SPECIAL NOTE:

WHEN CONTAINERS ARE TO BE STORED IN AN 89'-0'LONG OVAL-ARCH MAGAZINE, ROW 1 WILL BE 11 CONTAINERS LONG WITH 4 LAYERS; ROW 2 WILL BE 11 CONTAINERS LONG WITH 5 LAYERS; ROW 3 WILL BE 10 CONTAINERS WITH 5 LAYERS; AND ROW 4 WILL BE 17 CONTAINERS DEEP WITH 5 LAYERS.

IN THE FRONTAL AREA 4 ADDITIONAL CONTAINERS CAN BE STACKED AS SHOWN IN THE STORAGE VIEWS, MAKING A TOTAL OF 238 CONTAINERS.

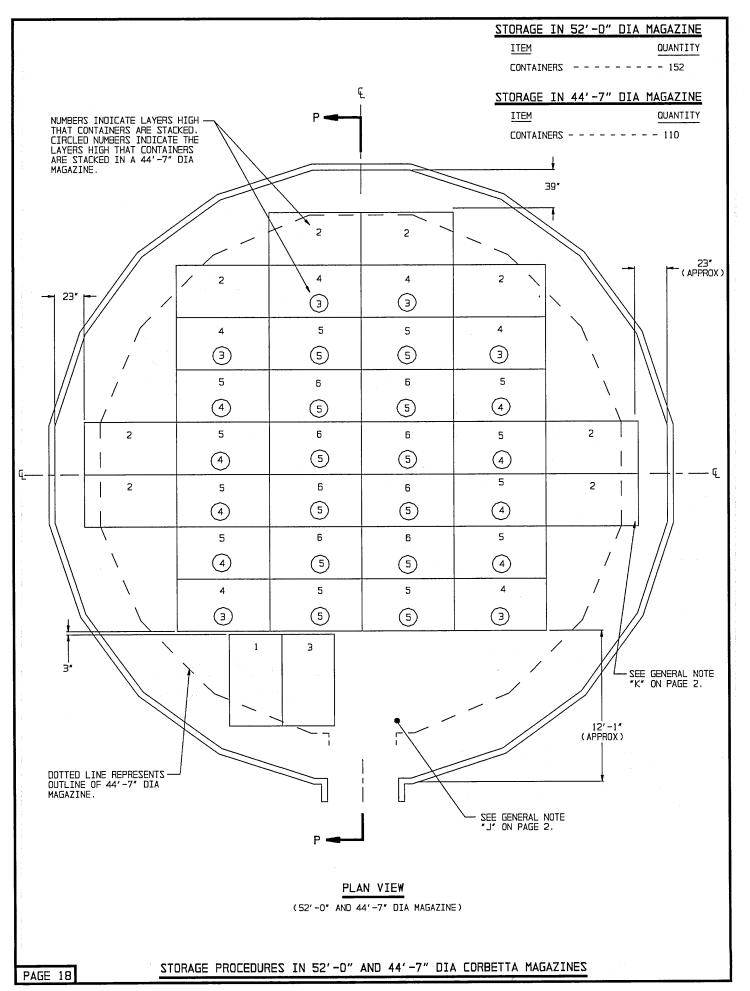
STORAGE PROCEDURES IN 80'-0" L X 25'-0" W X 14'-0" H STRADLEY AND 89'-0" L X 24'-10" W X 14'-4" H OVAL ARCH MAGAZINES

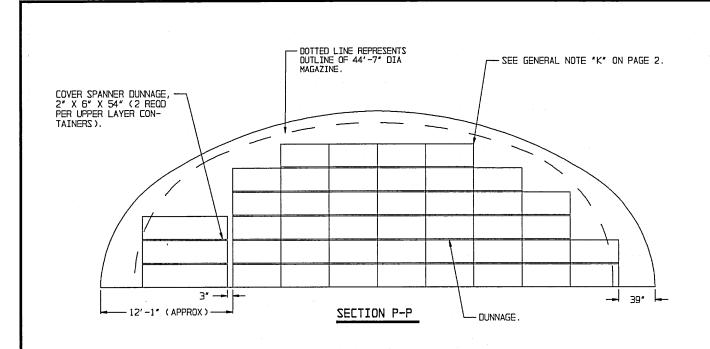




| BILL OF MATERIAL (PER UPPER LAYER CONTAINER) | | | |
|--|-------------|------------|--|
| LUMBER | LINEAR FEET | BOARD FEET | |
| 2" X 6" | 9 | 9 | |

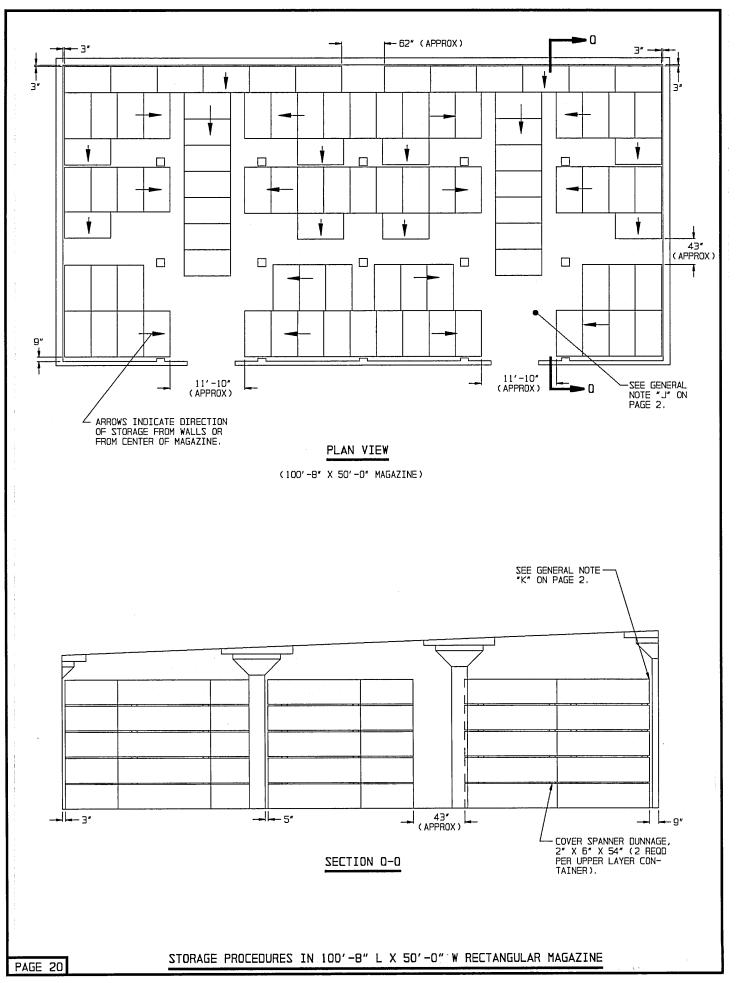
STORAGE PROCEDURES IN 89'-0" L X 24'-11" W X 13'-6" H STEEL ARCH MAGAZINE

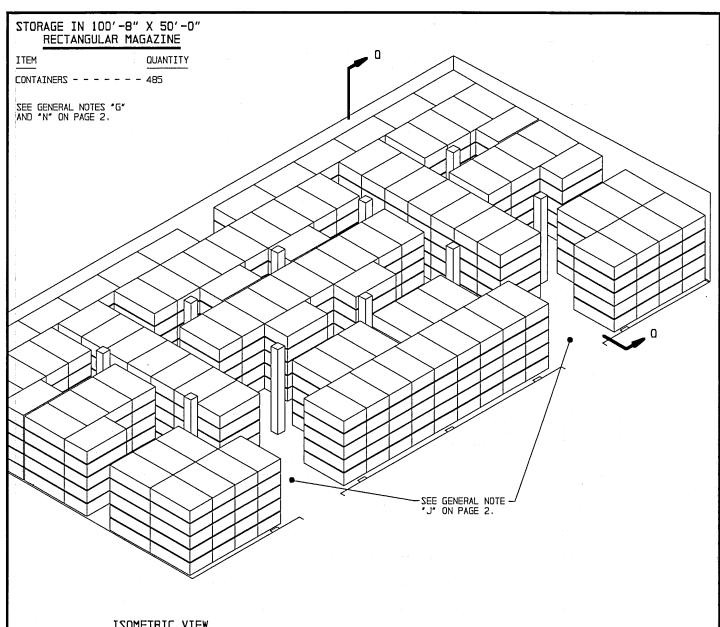




| BILL OF MATERIA | AL (PER UPPER LA | YER CONTAINER) |
|-----------------|------------------|----------------|
| LUMBER | LINEAR FEET | BOARD FEET |
| 2" X 6" | 9 | 9 |

STORAGE PROCEDURES IN 52'-0" AND 44'-7" DIA CORBETTA MAGAZINES





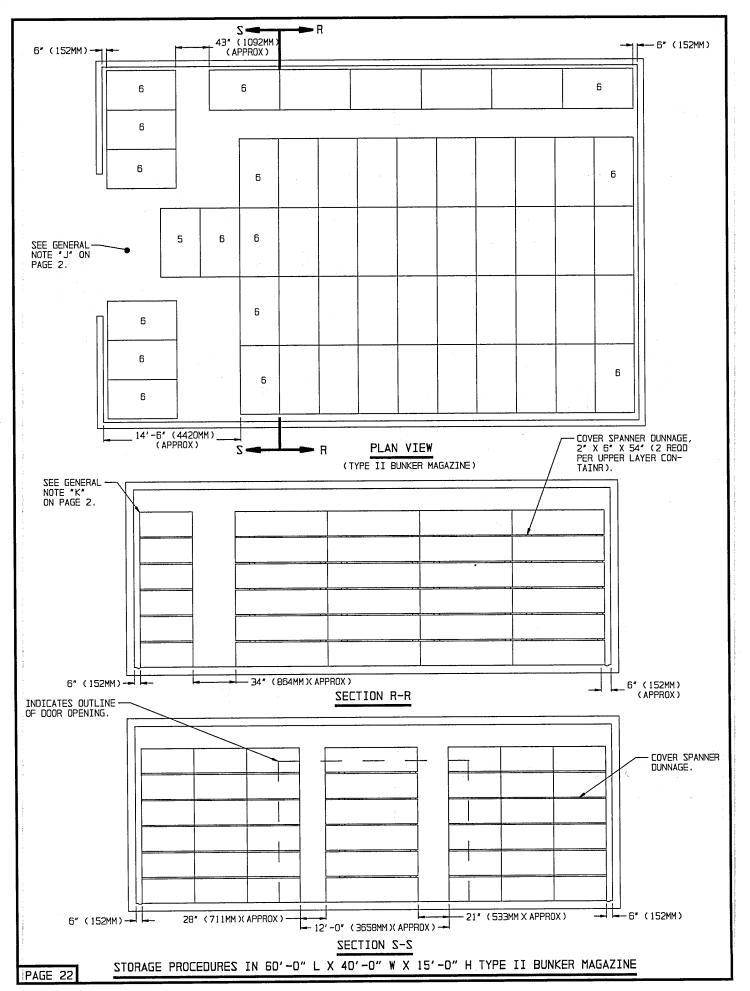
ISOMETRIC VIEW

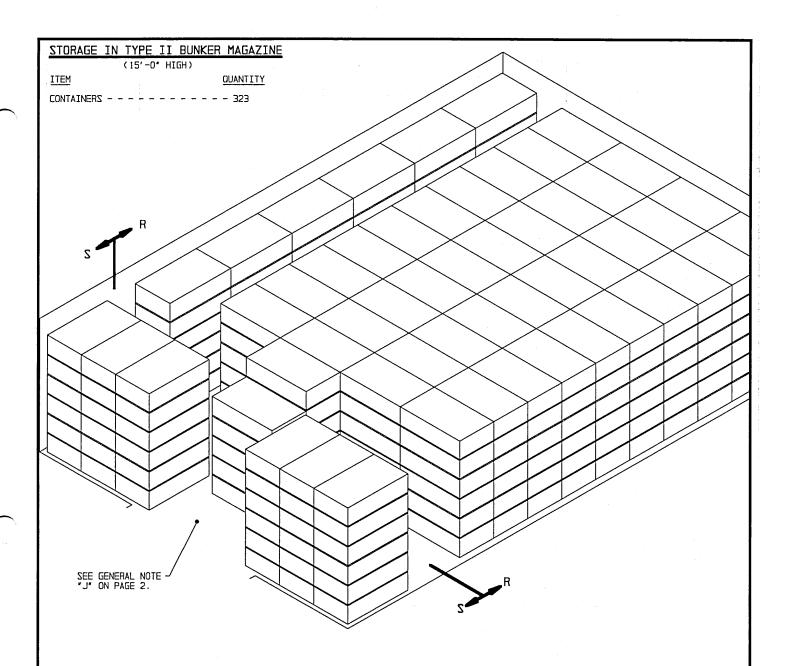
(100'-8" X 50'-0" MAGAZINE)

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

| BILL OF MATERIAL (PER UPPER LAYER CONTAINER) | | | |
|--|-------------|------------|--|
| LUMBER | LINEAR FEET | BOARD FEET | |
| 2″ X 6″ | 9 | 9 | |

STORAGE PROCEDURES IN 100'-8" L X 50'-0" W RECTANGULAR MAGAZINE





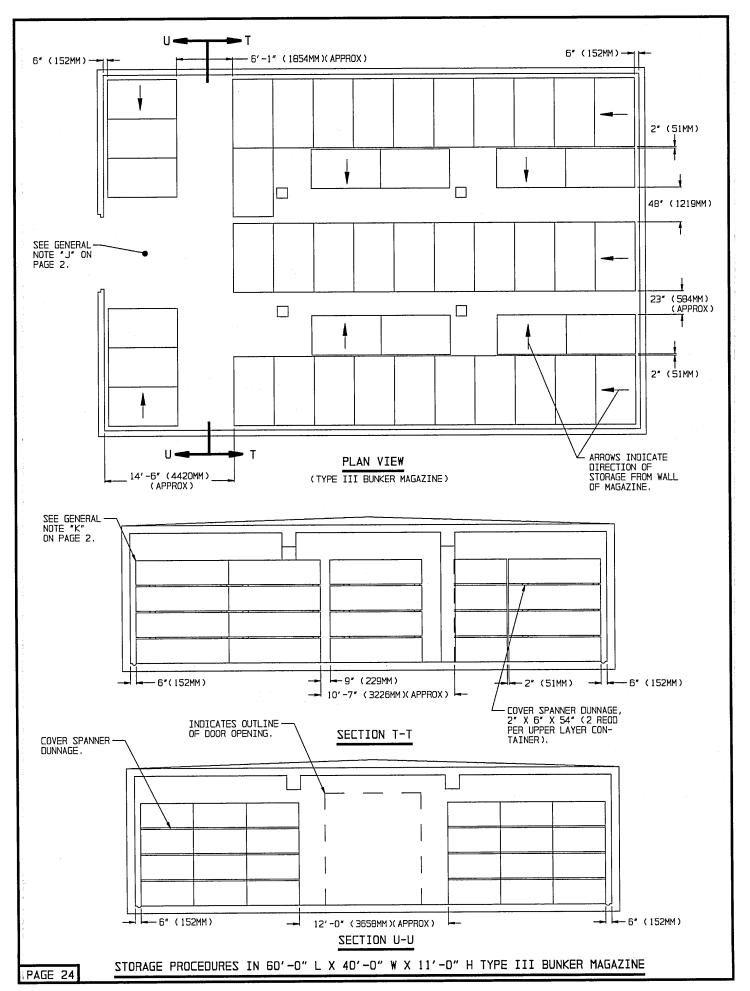
ISOMETRIC VIEW

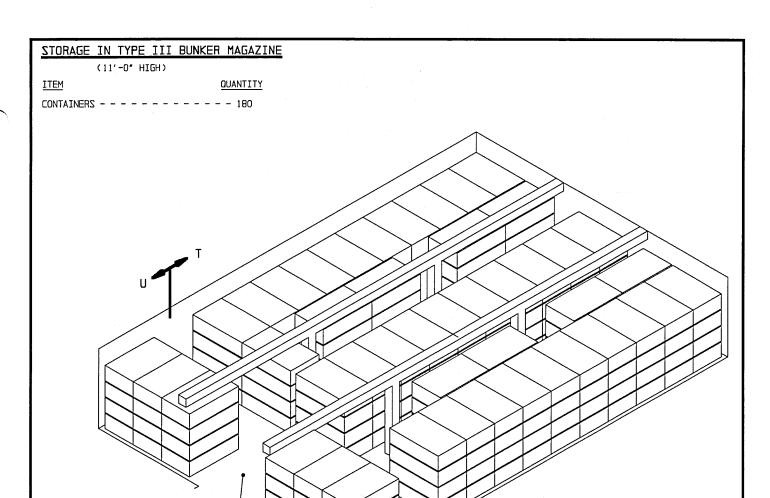
(TYPE II BUNKER MAGAZINE)

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

| BILL OF MATERIA | AL (PER UPPER LA | AYER CONTAINER) |
|-----------------|------------------|-----------------|
| LUMBER | LINEAR FEET | BOARD FEET |
| 2" X 6" | 9 | 9 |

STORAGE PROCEDURES IN 60'-0" L X 40'-0" W X 15'-0" H TYPE II BUNKER MAGAZINE





ISOMETRIC VIEW

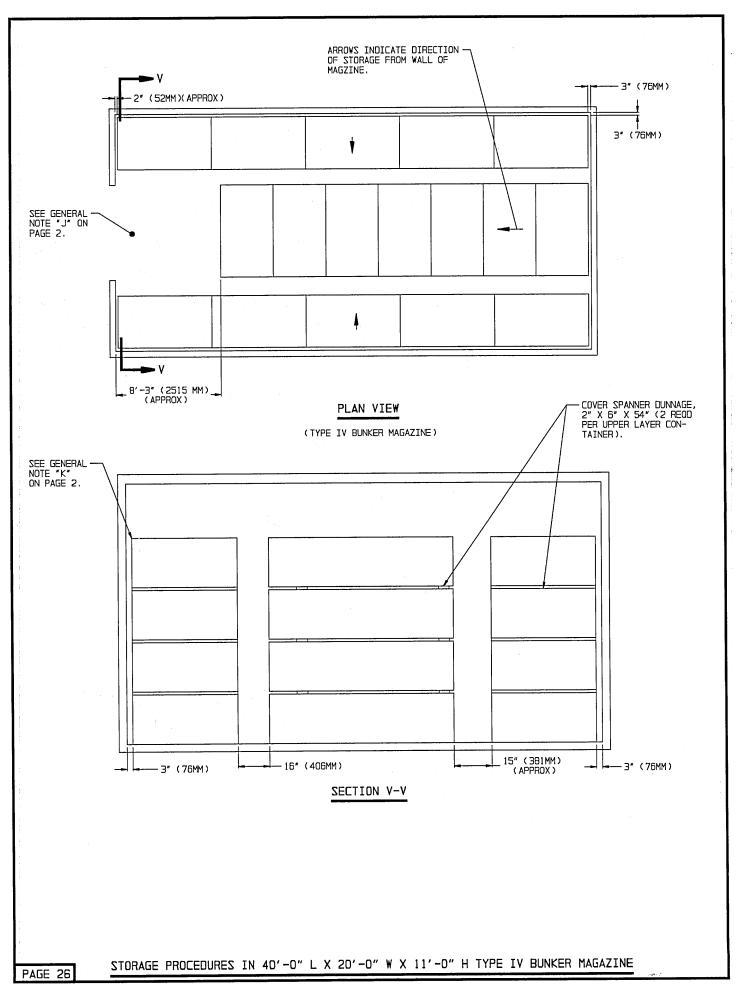
(TYPE III BUNKER MAGAZINE)

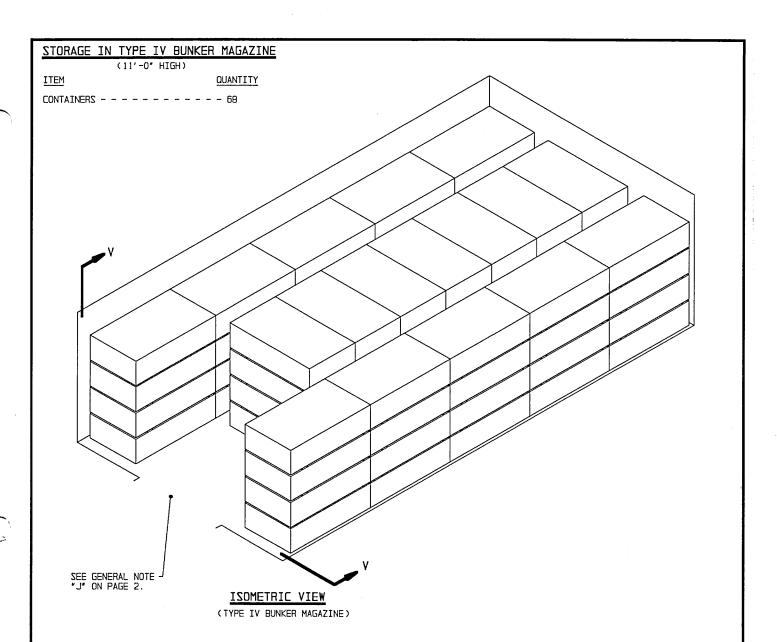
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

| BILL OF MATERIAL (PER UPPER LAYER CONTAINER) | | | | | | | |
|--|-------------|------------|--|--|--|--|--|
| LUMBER | LINEAR FEET | BOARD FEET | | | | | |
| 2" X 6" | 9 | g | | | | | |

SEE GENERAL NOTE J

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





| BILL OF MATERIAL (PER UPPER LAYER CONTAINER) | | | | | | | |
|--|-------------|------------|--|--|--|--|--|
| LUMBER | LINEAR FEET | BOARD FEET | | | | | |
| 2″ X 6″ | 9 | g | | | | | |

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

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