STORAGE IN APPROVED MAGAZINES OF ENCAPSULATED HARPOON MISSILE, PACKED 1 PER MK630 MOD O SHIPPING AND STORAGE CONTAINER

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U.S. ARMY MATERIEL COMMAND DRAWING					
APPROVED, U.S. ARMY INDUSTRIAL OPERATIONS COMMAND N.H.	ORAFTSMAN _		D. WHITMORE		
David a Perhoule	ENGINEER M. DAEUMER				
AMSTA-AR-ESK	SUPPLY ENGINEERING DIVISION / / / // // // // // // // // // // //				
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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 THE ENCAPSULATED HARPOON MISSILE, PACKED 1 PER MK630 MOD 0 CONTAINER. SUBSEQUENT REFERENCE TO CONTAINER MEANS THE MK630 CONTAINER WITH CONTENTS. FOR DETAILS OF THE CONTAINER SEE NAVSEA SYSTEMS COMMAND OR-4/261 AND THE PICTORIAL VIEW ON PAGE 3.

CONTAINER DIMENSIONS - 271-7/8" L X 44" W X 39-1/4" H STACKING HEIGHT - - - 36-1/4" GROSS WEIGHT - - - - - 3,667 POUNDS (APPROX) CUBE - - - - - - - - 272 CUBIC FEET (APPROX)

CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE" AND MUST BE STORED WITH THE FORWARD END FACING TOWARD A SIDEWALL OR THE REAR WALL AS INDICATED BY THE DIRECTIONAL ARROWS ON THE STORAGE VIEWS. ADDITIONALLY CONTAINERS MUST NOT BE STACKED MORE THAN THREE (3) CONTAINERS HIGH.

- C. 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. MINDR ADJUSTMENTS MAY BE MADE TO FACILITATE STORAGE IN OTHER TYPES OF APPROVED HEREIN WILL BE FOLLOWED.
- D. <u>CAUTION</u>: THE ALLOWABLE "EXPLOSIVE LIMIT" ESTABLISHED FOR A MAGAZINE IS NOT TO BE EXCEEDED. THIS LIMITATION MAY REGULIRE A QUANTITY REDUCTION FROM THE STORAGE AS SHOWN.
- E. STORED CONTAINERS MUST NOT CONTACT THE WALLS OF A MAGAZINE. THEREFORE, CONTAINERS WILL BE STORED A MINIMUM OF SIX INCHES (6") FROM THE SIDEWALL OR CURVATURE OF THE MAGAZINE AS APPLICABLE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, CONTAINERS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN AS NFCFSSARY.
- F. AISLE DIMENSIONS SHOWN FOR STORAGE PROCEDURES IN MAGAZINES MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS, AND/OR AVAILABLE MATERIALS HANDLING EQUIPMENT (MHE).
- G. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE AS PRESCRIBED BY LOCAL STANDARDS WILL NOT BE EXCEEDED.
- H. IF AVAILABLE MHE PERMITS, ADDITIONAL CONTAINERS MAY BE STORED WITHIN THE MHE AREA AND/OR OTHER AVAILABLE AREA OF THE MAGAZINE.
- 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 CONTAINERS ARE HANDLED AS ONE LIFT OR THE PACKAGE
 GUARD IS REMOVED (TINE CARRIAGE WILL IN MOST INSTANCES
 PROVIDE ADEGUATE PACKAGE GUARD PROTECTION). ONLY A
 FORKLIFT TRUCK OF ADEQUATE CAPACITY WILL BE USED WHEN
 LIFTING TWO CONTAINERS AS ONE LIFT.

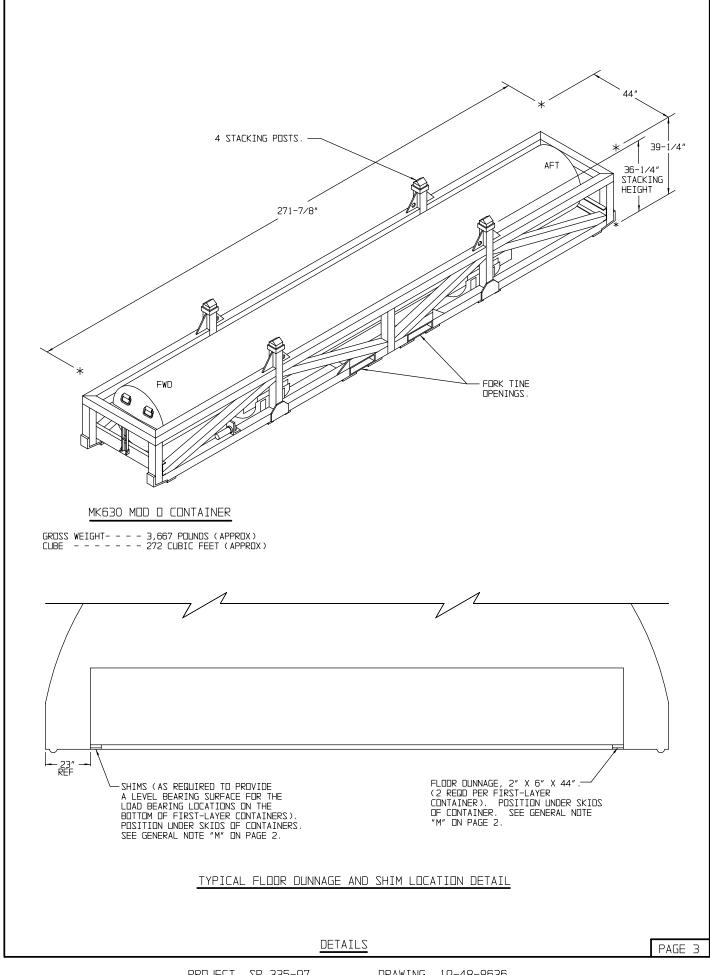
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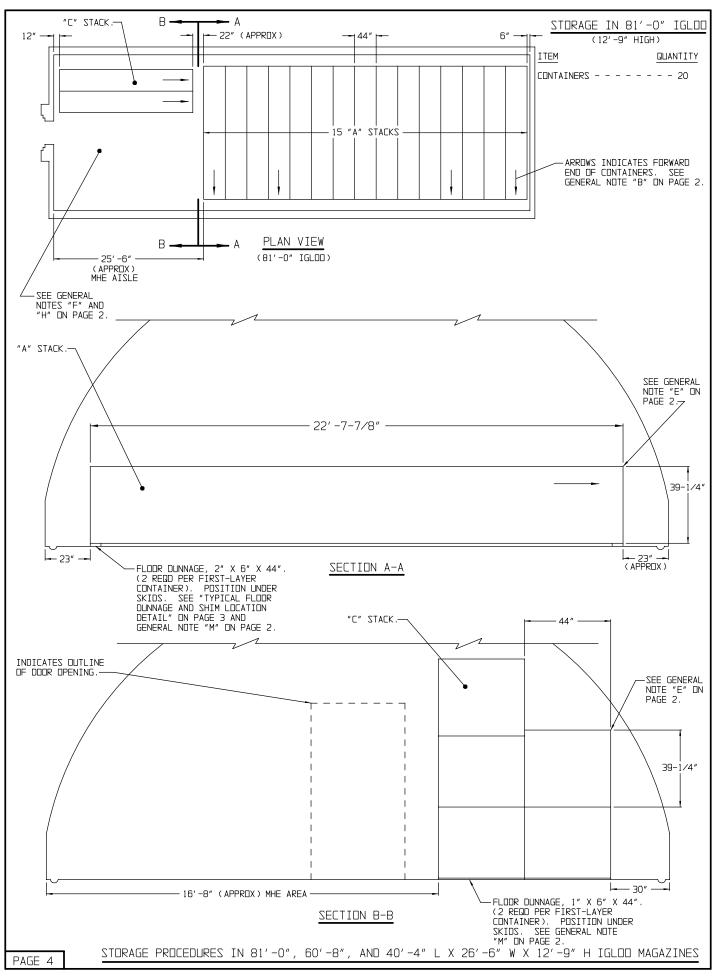
MATERIAL SPECIFICATIONS

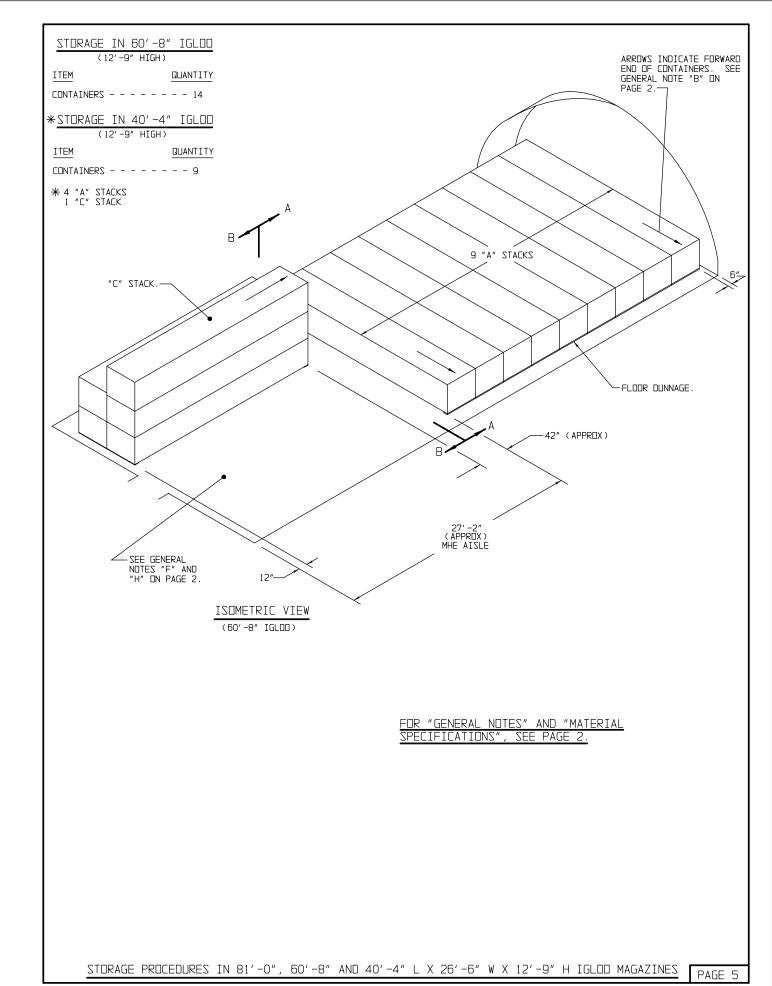
LUMBER - - - SEE TM 743-200-1, (DUNNAGE LUMBER) AND FED SPEC MM-L-751.

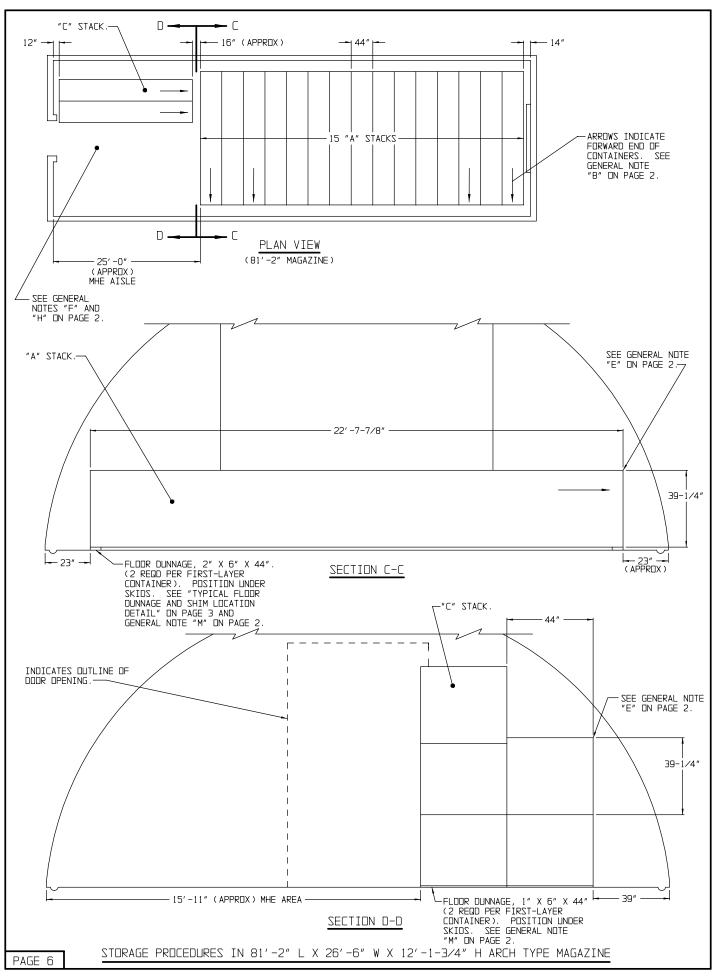
(GENERAL NOTES CONTINUED)

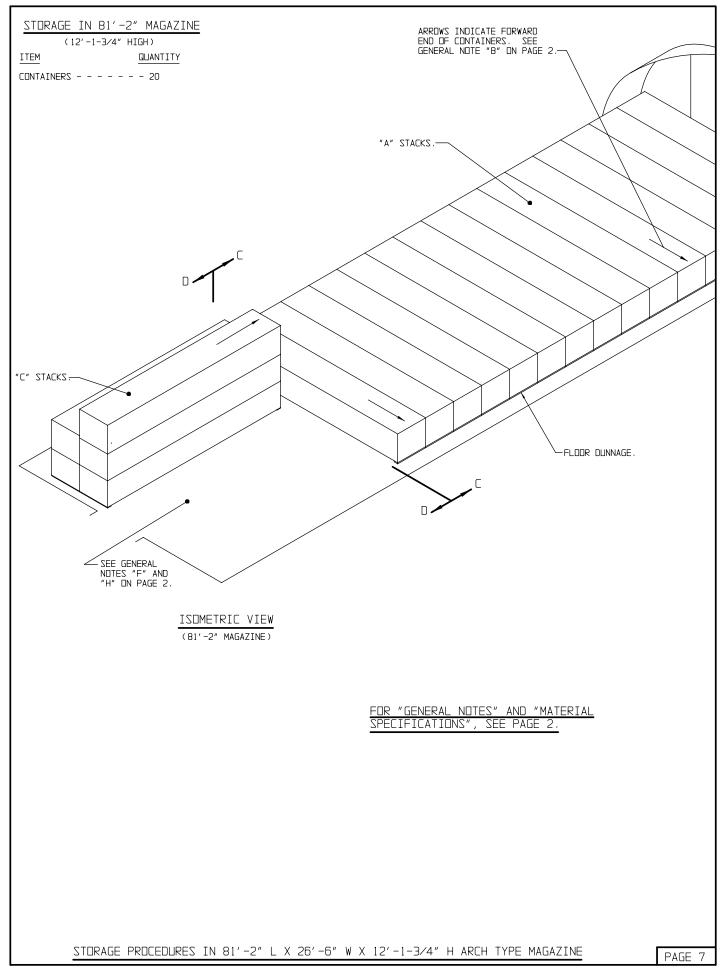
- K. IF THE QUANTITY OF CONTAINERS FOR A MAGAZINE IS TO BE REDUCED FROM WHAT IS SHOWN HEREIN DUE TO THE PERMITTED "EXPLOSIVE LIMIT" OR FOR ANY OTHER REASON, SUCH AS A LIMITED QUANTITY TO BE STORED, THE DELINEATED PROCEDURES ARE TO BE ADJUSTED BY OMITTING STACKS RATHER THAN BY OMITTING LAYERS.
- L. PORTIONS OF THE MAGAZINES, SUCH AS SIDEWALLS, END WALLS, AND ROOFS, HAVE NOT BEEN SHOWN IN THE STORAGE VIEWS FOR CLARITY PURPOSES.
- M. THE USE OF NOMINAL SIZE 1" X 6" X 44" OR 2" X 6" X 44" FLOOR DUNNAGE UNDER EACH END OF EACH FIRST-LAYER CONTAINER 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 CONTAINER 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. IN IGLOO, ARCH TYPE AND STRADLEY MAGAZINES WHICH HAVE FLOORS SLOPING TOWARD THE SIDEWALLS, THE DEPICTED STORAGE PATTERNS INCLUDE CONTAINER-STACKS WHICH STRADDLE THE RIDGE OF THE FLOOR AT THE CENTER OF THE MAGAZINE. IT WILL BE NECESSARY, THEREFORE, TO USE 2" THICK MATERIAL FOR FLOOR DUNNAGE UNDER THESE STACKS TO PREVENT THE BOTTOM OF THE FORK TINE POCKETS FROM CONTACTING THE CONCRETE FLOOR STACK STABILIZING DUNNAGE IN THE FORM OF SHIMS WILL BE USED IF REQUIRED TO ACHIEVE SOUND AND ACCEPTABLE STACKS SHIM MATERIAL OF VARYING THICKNESSES OR THICKER FLOOR DUNNAGE WILL BE USED AS REQUIRED UNDER THE LOAD BEARING LOCATIONS AT THE ENDS OF FIRST-LAYER CONTAINERS. SEE THE "FLOOR DUNNAGE AND SHIM LOCATION DETAIL" ON PAGE 3 FOR A TYPICAL INSTALLATION.
- N. OTHER COMPATIBLE ITEMS MAY BE STORED IN A MAGAZINE WHICH IS PARTIALLY FILLED WITH THE DESIGNATED ITEM.

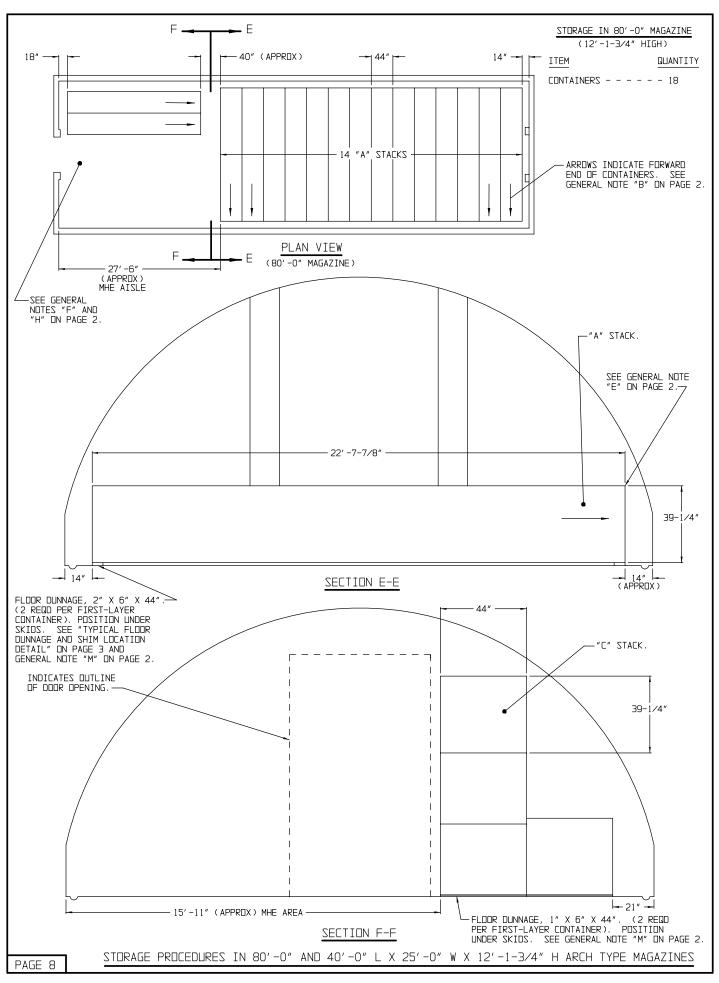


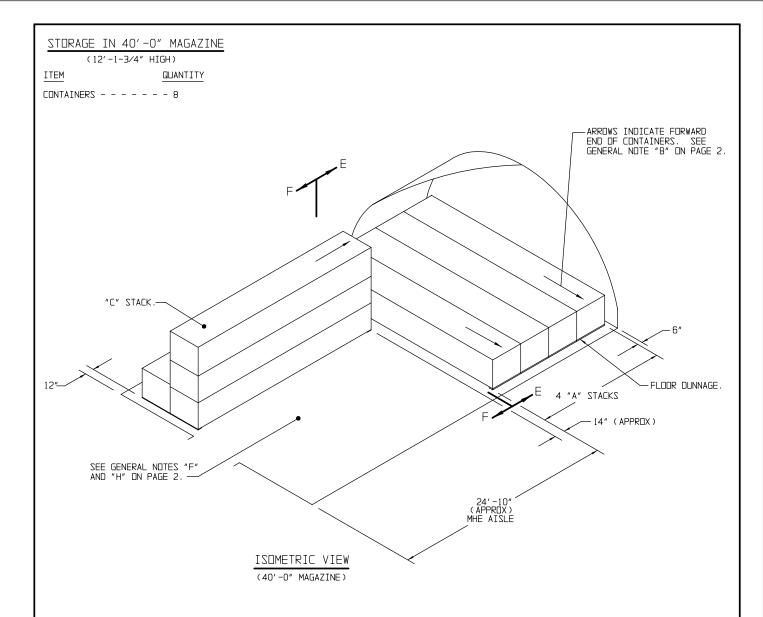






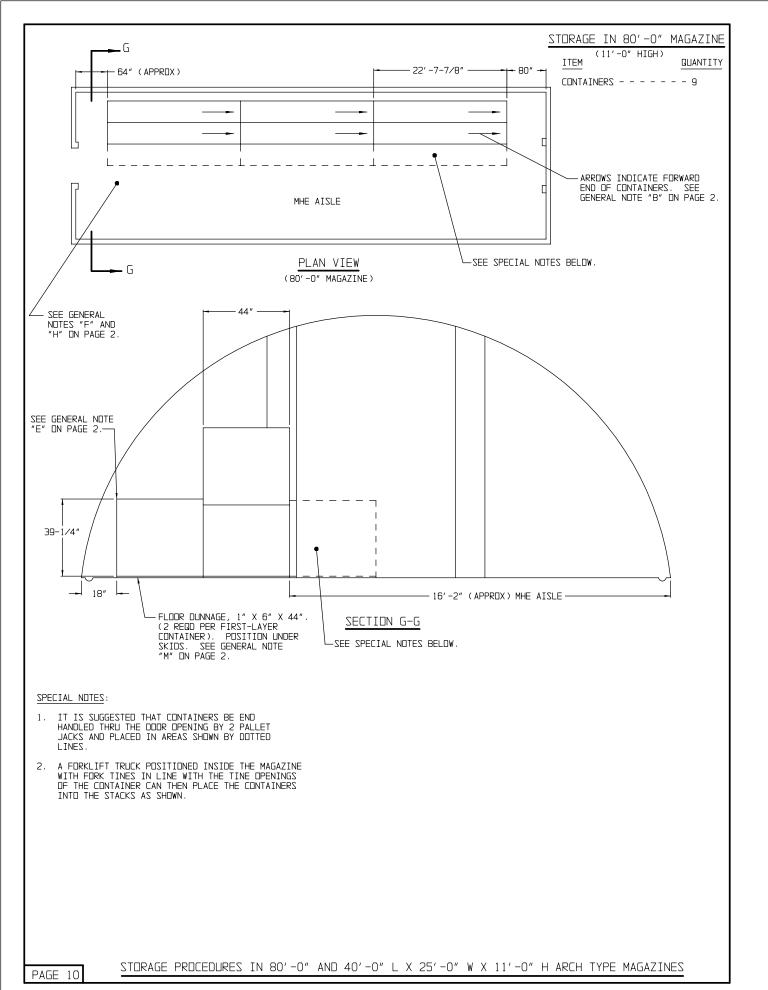






FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

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

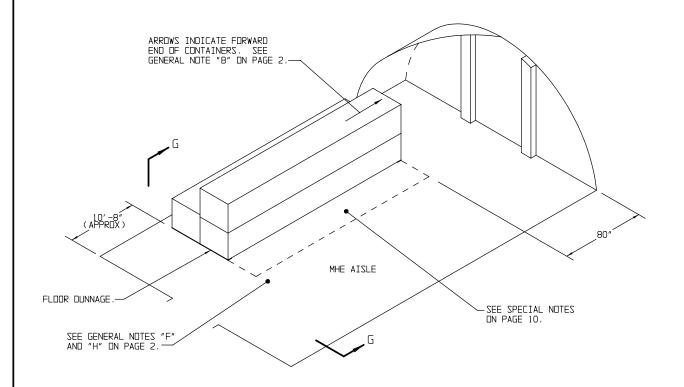


STORAGE IN 40'-0" MAGAZINE

(11'-0" HIGH)

ITEM QUANTITY

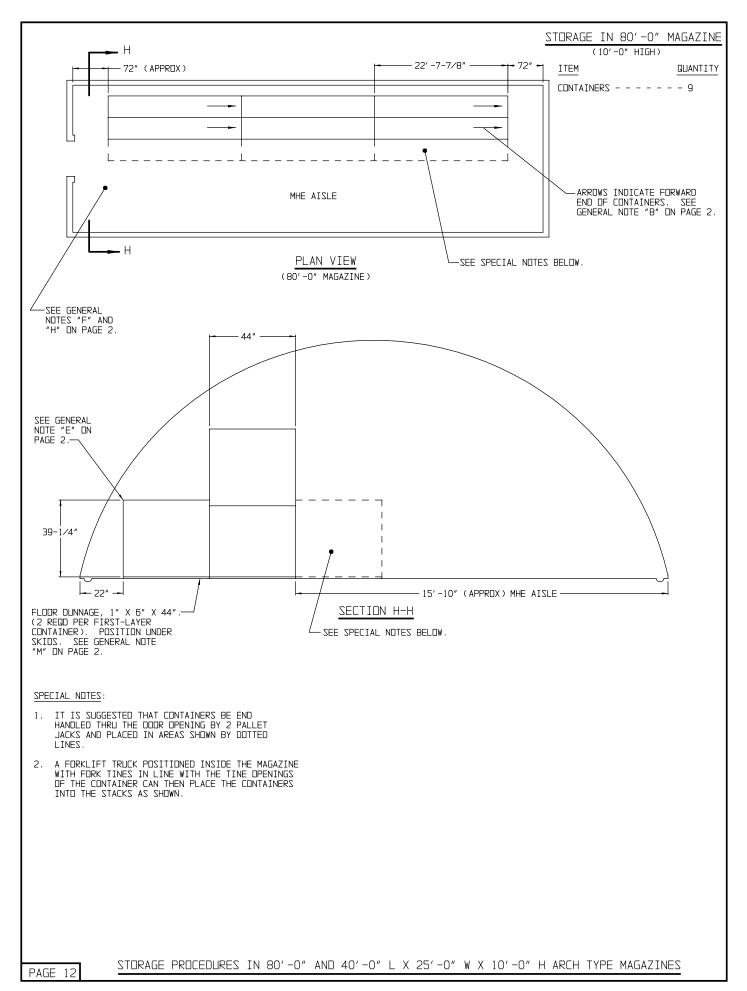
CONTAINERS - - - - - - 3



ISOMETRIC VIEW
(40'-0" MAGAZINE)

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

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

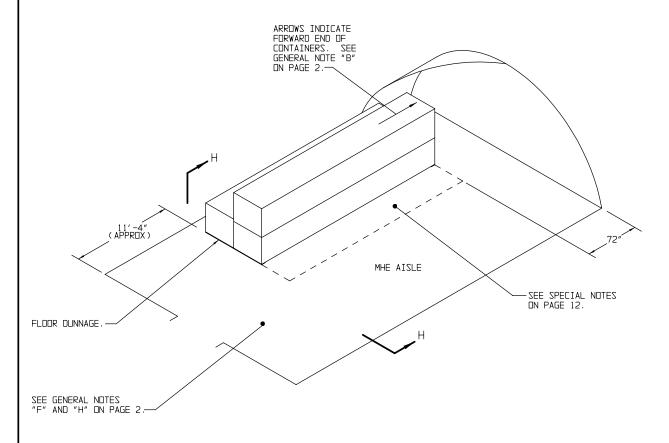


STORAGE IN 40'-0" MAGAZINE

(10'-0" HIGH)

<u>ITEM</u> <u>QUANTITY</u>

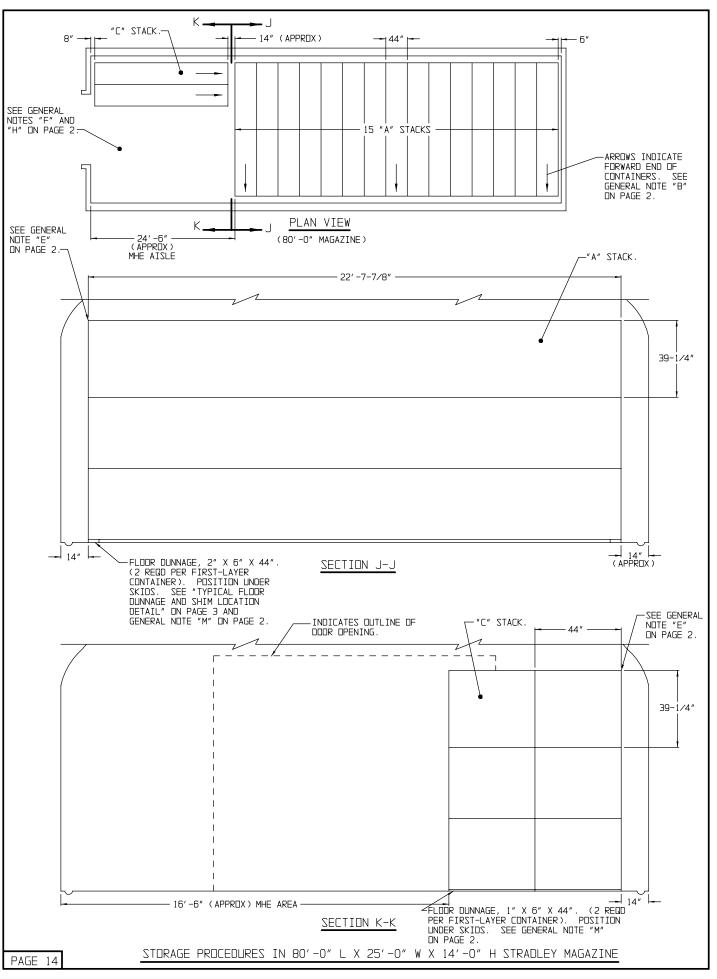
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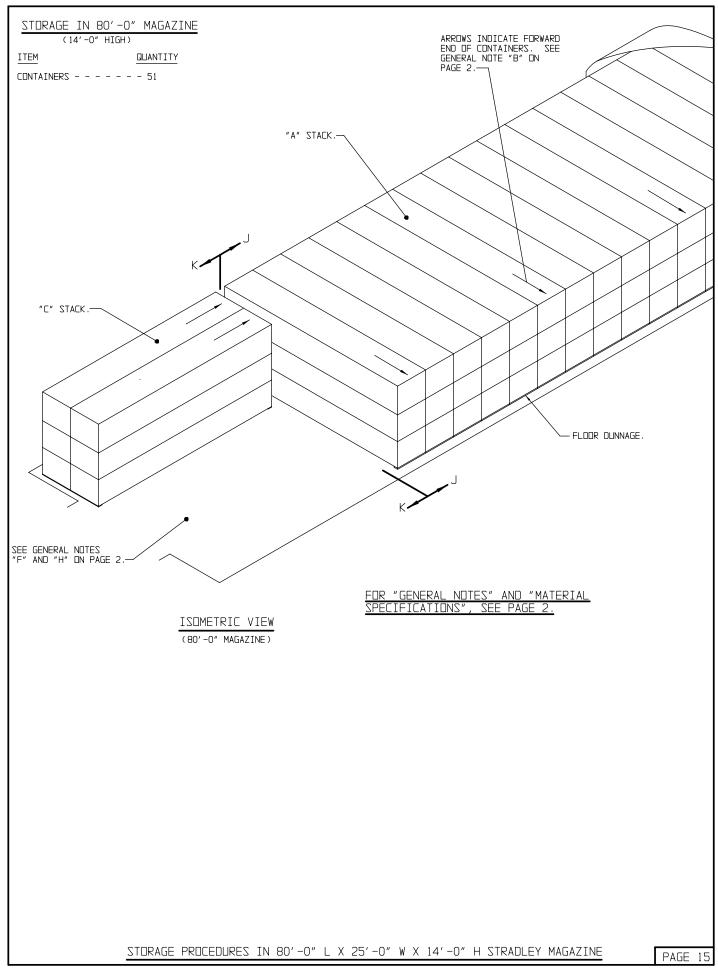


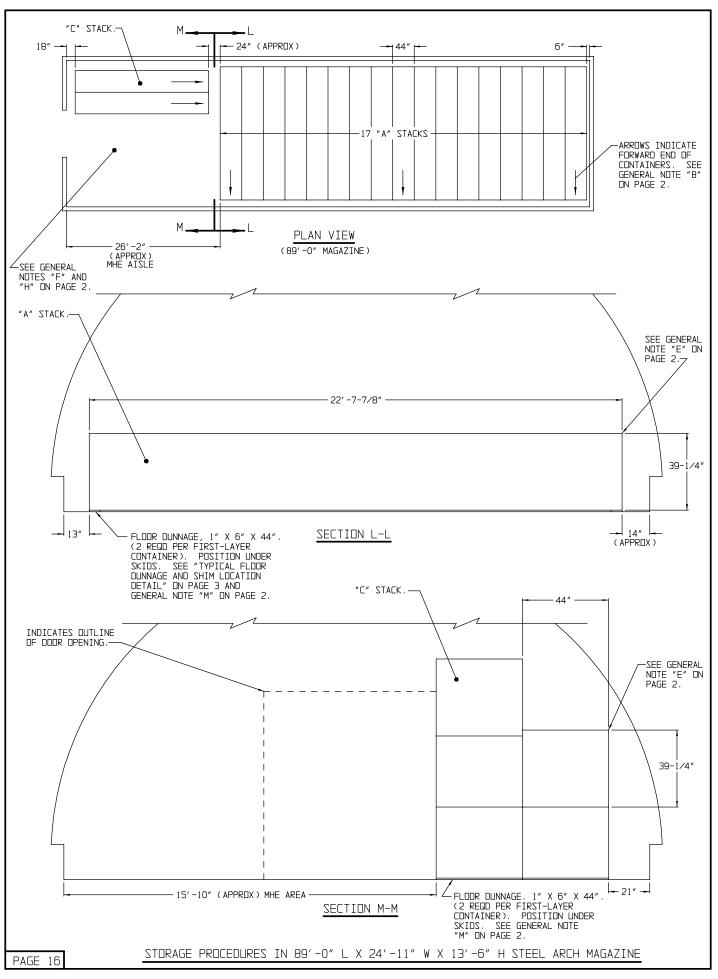
ISOMETRIC VIEW
(40'-0" MAGAZINE)

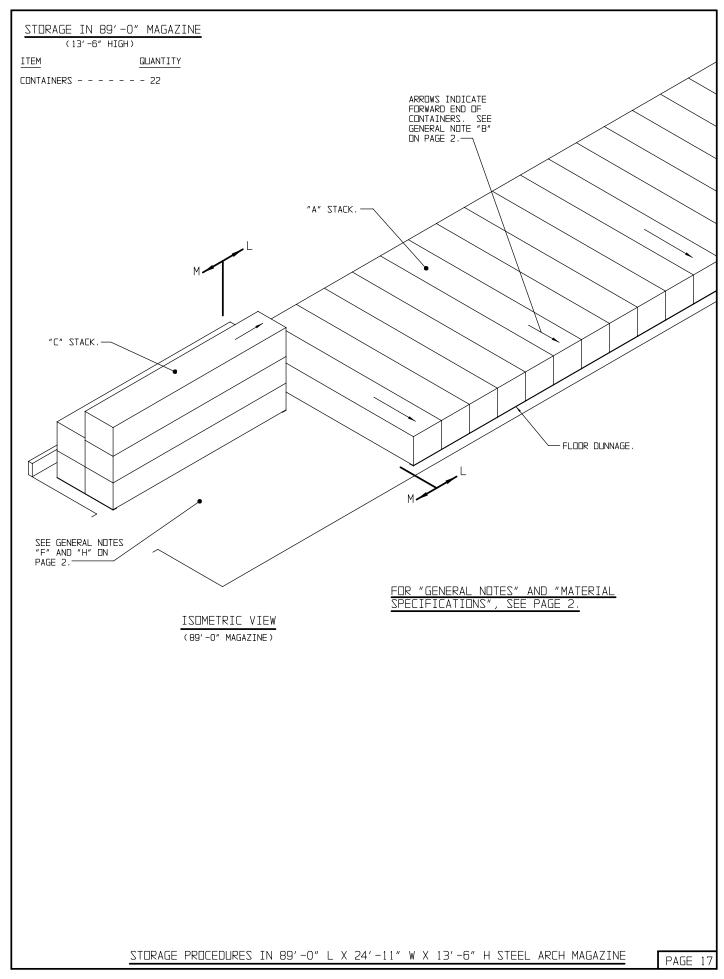
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

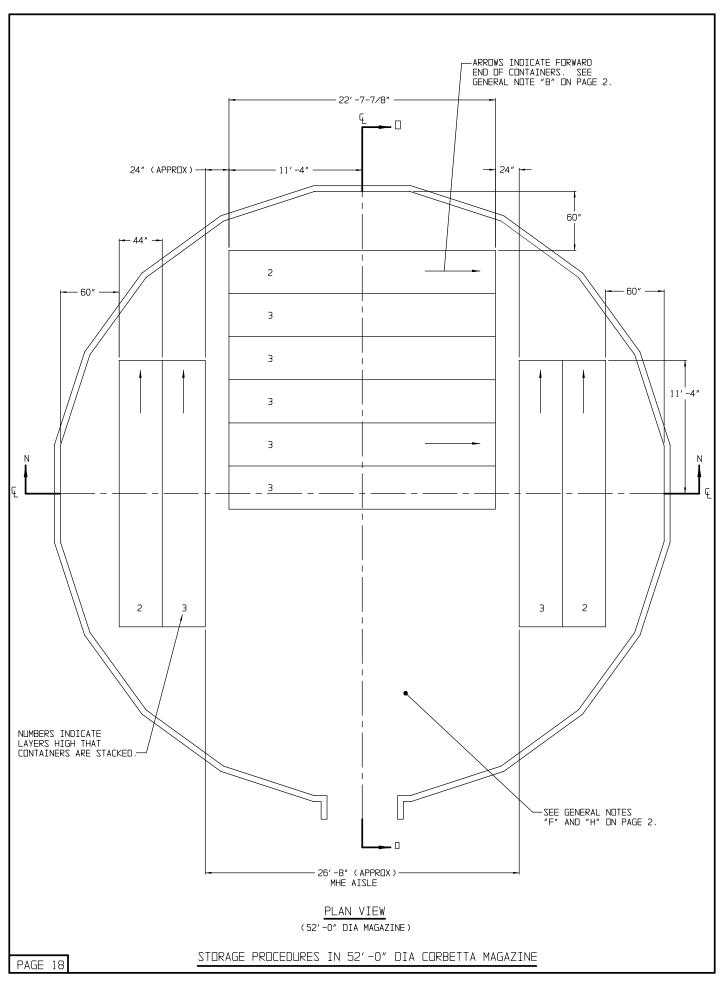
STURAGE PROCEDURES IN 80'-0" AND 40'-0" L X 25'-0" W X 10'-0" H ARCH TYPE MAGAZINES

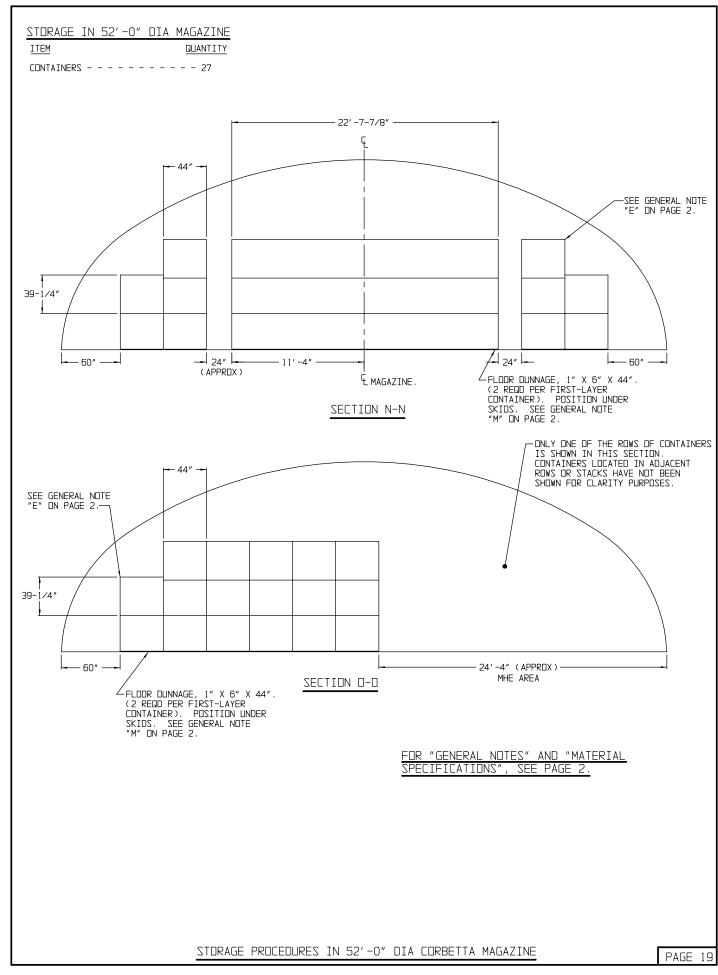


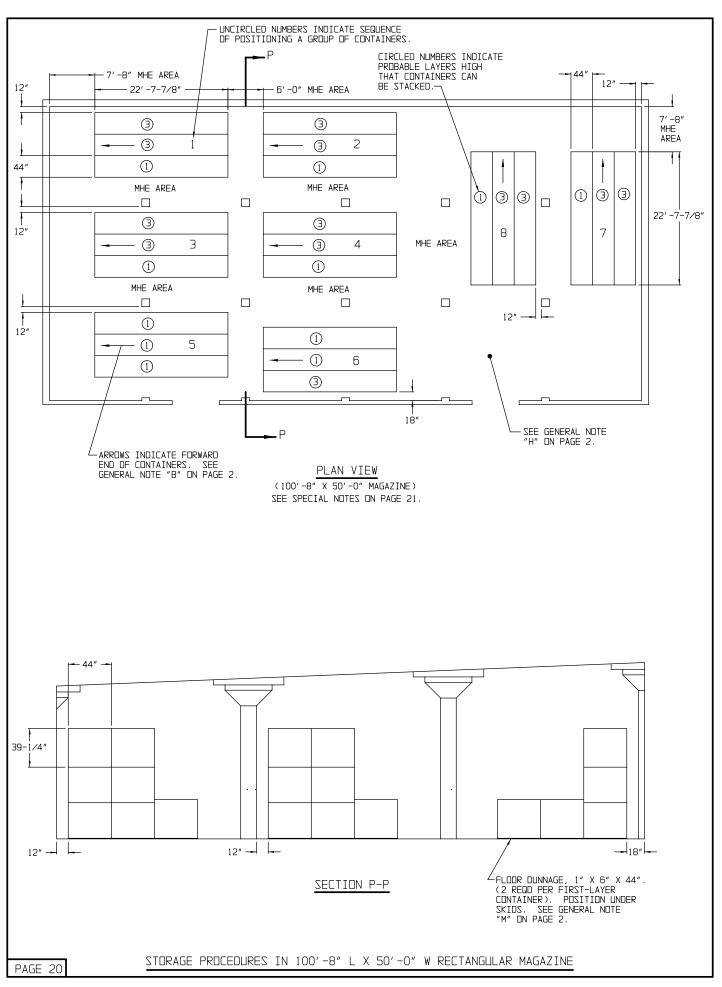


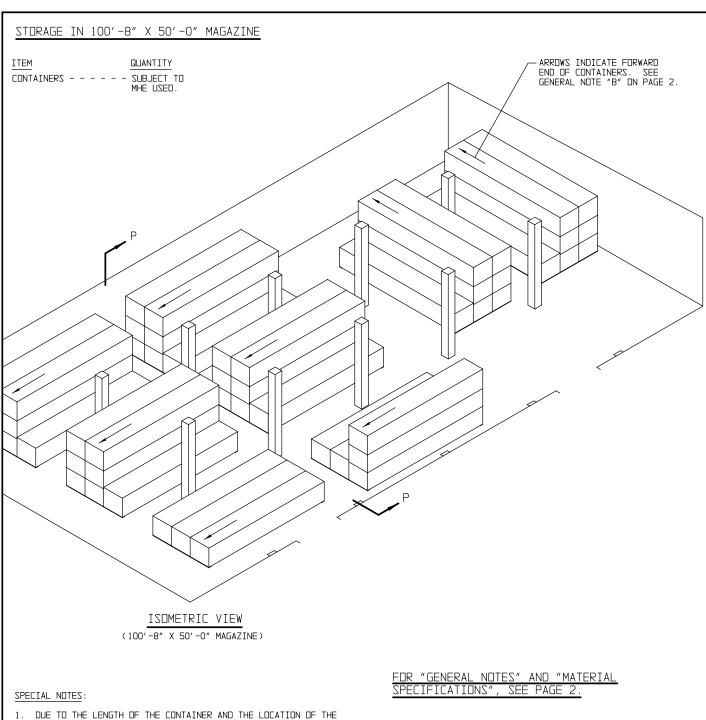












1. DUE TO THE LENGTH OF THE CONTAINER AND THE LOCATION OF THE COLUMNS IN THE MAGAZINE, THE PLAN VIEW DEPICTS A STORAGE PATTERN THAT CAN BE ACCOMPLISHED BY USE OF 2 PALLET JACKS AND A CONVENTIONAL FORKLIFT TRUCK.

- 2. THE STORAGE PATTERN DEPICTS 3 CONTAINER HIGH AND 1 CONTAINER HIGH STACKS WHICH CAN BE ACCOMPLISHED BY END HANDLING A CONTAINER WITH 2 PALLET JACKS AND PLACING IN A STORAGE LOCATION. STACKING CONTAINERS UP TO 3 LAYERS HIGH CAN THEN BE ACCOMPLISHED BY USE OF A CONVENTIONAL FRONT LOADER FORKLIFT TRUCK.
- 3. STACKS HAVE BEEN POSITIONED TO PROVIDE ADEQUATE SPACE FOR REMOVAL OF THE PALLET JACKS AS WELL AS PROVIDE ACCESS FOR STACKING BY FORKLIFT TRUCK.
- 4. ALL REQUIREMENTS OF GENERAL NOTES "B", "D", "E" AND "F" ON PAGE 2 MUST BE COMPLIED WITH.

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

