CHAPARRAL

STORAGE IN 81'-0" AND 60'-8" L
X 26'-6" W X 12'-9" H IGLOO,
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 OF COMPLETE ROUND
IN THE M570 SHIPPING AND
STORAGE CONTAINER

INDEX

ITEM	PAGE(S)
GENERAL NOTES AND MATERIAL SPECIFICATIONS	
PALLET AND CONTAINER DETAILS	- 3
81'-0" AND 60'-8" L X 26'-6" W X 12'-9" H IGLOO MAGAZINES	- 4,5
80'-0" L X 25'-0" W X 14'-0" H STRADLEY MAGAZINE	- 6,7
89'-0" L X 24'-10" W X 14'-4" H OVAL-ARCH MAGAZINE	- 8,9
PALLETIZED UNITS	2002
81'-0" AND 60'-8" L X 26'-6" W X 12'-9" H IGLOO MAGAZINES	
80'-0" L X 25'-0" W X 14'-0" H STRADLEY MAGAZINE	- 12,13
89'-0" L X 24'-10" W X 14'-4" H OVAL-ARCH MAGAZINE	- 14,15
EOD REQUIREMENTS FOR UNPALLETIZED UNITS	- 16,17
EOD REQUIREMENTS FOR PALLETIZED UNITS	- 18,19
DETAILS	- 20

	U.S. A	RMY	MATERI	EL C	OMMA	AND DE	RAWING
	APPROVED, U.S. ARMY M	ISSILE COM	MAND -	DRAFTSMA	AN	INGEBOR	5 DEPPE
	41	1 1/4	0	ENGINEER	3	M. DAEUN	MER
	Theasher!	11/1/29	rex vi		ENGINEERING /ISION	The	m Michil
	APPROVED BY ORDER OF ARMY MATERIEL COMMAND		JENERAL, U.S.		S ENGINEER OFFICE	ING WILL	TEnst
	Jelm Z. and		JUNE 1968				
	U.S. ARMY DEFENSE AMM	UNITION CE	NTER AND SCHOOL	CLASS	NOISIVIO	DRAWING	FILE
DO NOT SCALE	REVISION NO. 3	JUL	Y 1994	19	48	5231	GM 1-14-
DO NOT STALL	SEE THE REVISIO	N LISTII	NG ON PAGE 2	10	70	3231	22 CH 1

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 DETAILS
 - FOR DETAILS OF THE M570 CONTAINER, SEE DRAWING NO. 11074804 AND THE VIEW SHOWN ON PAGE 3.

CONTAINER DIMENSIONS - - 125" L X 18" W X 19" H
GROSS WEIGHT - - - - 299 LBS (APPROX)
EXPLOSIVE WEIGHT - - - 69 LBS (APPROX)
(WARHEAD AND MOTOR).

 FOR DETAILS OF THE M570 PALLETIZED UNIT, SEE DRAWING NO. 19-48-5235-GM 20CH1, AND THE VIEW SHOWN ON PAGE 3.

PALLET UNIT DIMENSIONS - - 128-1/4" L X 36" W X 44-5/8" H
GROSS WEIGHT - - - - - 1,398 LBS (APPROX)
EXPLOSIVE WEIGHT - - - 276 LBS (APPROX)
(WARHEAD AND MOTOR).

- C. THIS IS A OD CLASS 1.1 ITEM AND IS IN COMPATIBILITY GROUP E. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE" AND MUST BE STORED WITH THE FORWARD END FACING TOWARD THE REAR WALL AND/OR SIDE WALLS OF THE MAGAZINE, AS INDICATED BY THE DIRECTIONAL ARROWS IN THE STORAGE VIEWS.
- D. AISLE DIMENSIONS AS SHOWN HEREIN MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE MATERIAL HANDLING EQUIPMENT (MHE). HOWEVER, A 24" MINIMUM INSPECTION AISLE MUST BE MAINTAINED AT THE AFT END OF THE STORED ITEMS.
- E. STORED CONTAINERS MUST NOT CONTACT THE WALLS OF A MAGAZINE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, THE WIDTH OF THE AISLES MAY BE ADJUSTED OR CONTAINERS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERNS AS NECESSARY.
- F. CAUTION: A STACK OF SINGLE CONTAINERS WILL NOT BE STACKED MORE THAN THREE(3) OR FOUR (4) CONTAINERS HIGH WITHOUT BEING WIRE—TIED TO AN ADJACENT STACK AS SPECIFIED. THE THIRD LAYER IN A FOUR—HIGH CONTAINER STACK OR THE FOURTH LAYER IN A FIVE OR SIX—HIGH CONTAINER STACK WILL BE WIRE—TIED AS DETAILED IN THE "STACK STABILIZING WIRE TIE DETAIL" ON PAGE 20. POSITION ANTICHAFING MATERIAL OR TAPE BETWEEN THE TIE WIRE AND THE LIFTING HANDLES. IF NO. 8 GAGE WIRE IS NOT READILY AVAILABLE OTHER SIZES OF WIRE TIES, IF OF EQUAL STRENGTH, MAY BE SUBSTITUTED; SUCH AS, TWO (2) LOOPS OF NO. 14 GAGE WIRE FOR ONE (1) LOOP OF NO. 8 GAGE WIRE WHICH IS SPECIFIED.
- G. CAUTION: EXTREME CARE MUST BE EXERCISED DURING HANDLING, WIRE TYING AND INSPECTION OPERATIONS TO PREVENT DAMAGE TO THE EXPOSED PLASTIC AREAS OF THE CONTAINER. PLASTIC AREAS WILL NOT BE STEPPED ON, WALKED ON, PRIED AGAINST, STRUCK OR GOUGED WITH HAND TOOLS, MATERIAL HANDLING EQUIPMENT, LADDERS AND OTHER EQUIPMENT BEING USED.
- H. IF AVAILABLE MHE PERMITS, ADDITIONAL M570 CONTAINERS WITH MISSILES MAY BE STORED WITHIN THE FRONTAL AREA OF THE MAGAZINE.
- J. THE STORAGE PROCEDURES DEPICTED HEREIN FOR SPECIFIC TYPES OF MAGAZINES MAY ALSO BE UTILIZED TO STORE CONTAINERS AND/OR 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 COMPLIED WITH.

(CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

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

WIRE, CARBON STEEL -: ASTM A853; ANNEALED AT FINISH, BLACK OXIDE FINISH, .0800" DIA, GRADE 1006 OR BETTER.

ANTI-CHAFING

MATERIAL ----: MIL-B-121 (OR EQUAL); NEUTRAL BARRIER

MATERIAL,

(GENERAL NOTES CONTINUED)

- K. OTHER COMPATIBLE ITEMS MAY BE STORED IN A MAGAZINE WHICH IS PARTIALLY FILLED WITH THE DESIGNATED ITEM.
- L. THE STORAGE PROCOURES DEPICTED FOR IGLOO MAGAZINES ARE ALSO APPLICABLE FOR STEEL ARCH MAGAZINES WHICH HAVE A SIMILAR CROSS SECTIONAL AREA.
- M. PAGES 16 THROUGH 19 DEPICT SPECIAL STORAGE PROCEDURES WHICH WILL BE USED ONLY AT INSTALLATIONS WHICH HAVE A REQUIREMENT TO PROVIDE FOR AN EOD DESTRUCTION CAPABILITY.
- N. FLOOR DUNNAGE IS REQUIRED TO PERMIT LEVEL STACKING OF UNPALLETIZED CONTAINERS IN IGLOO AND STRADLEY MAGAZINES, WHICH HAVE FLOORS THAT SLOPE TOWARD THE SIDEWALL OF THE MAGAZINE. WEDGES ARE NOT REQUIRED IN OVAL-ARCH MAGAZINES, WHERE THE FLOOR DOES NOT SLOPE TOWARD THE SIDEWALL OF THE MAGAZINE. FLOOR DUNNAGE WILL BE USED IN AN OVAL-ARCH MAGAZINE IF THE FLOOR IS SLOPED TO THE SIDEWALLS.
- O. CONTAINERS AND/OR PALLET UNITS PRESENTLY STORED IN ACCORDANCE WITH A PRIOR APPROVED DRAWING NEED NOT BE RESTORED SOLELY TO CONFORM TO THE PROCEDURES SPECIFIED IN THIS DOCUMENT
- P. PORTIONS OF THE MAGAZINES, SUCH AS SIDEWALLS, END WALLS, AND ROOFS, HAVE NOT BEEN SHOWN IN THE STORAGE VIEWS FOR CLARITY PURPOSES.

REVISIONS

REVISION NO. 1, DATED APRIL 1971, CONSISTS OF:

- 1. CHANGING THE OD CLASS FROM 7 TO 5.
- 2. CHANGING THE CONTAINER WEIGHT.
- 3. CHANGING THE LUMBER SPECIFICATION.

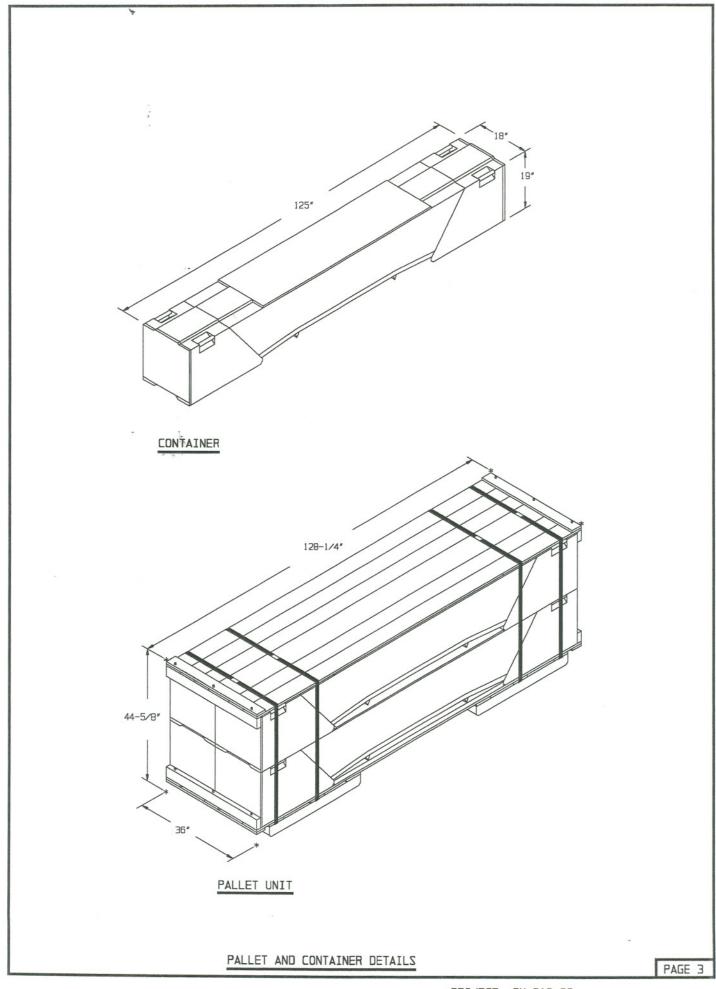
REVISION NO. 2, DATED OCTOBER 1976, CONSISTS OF:

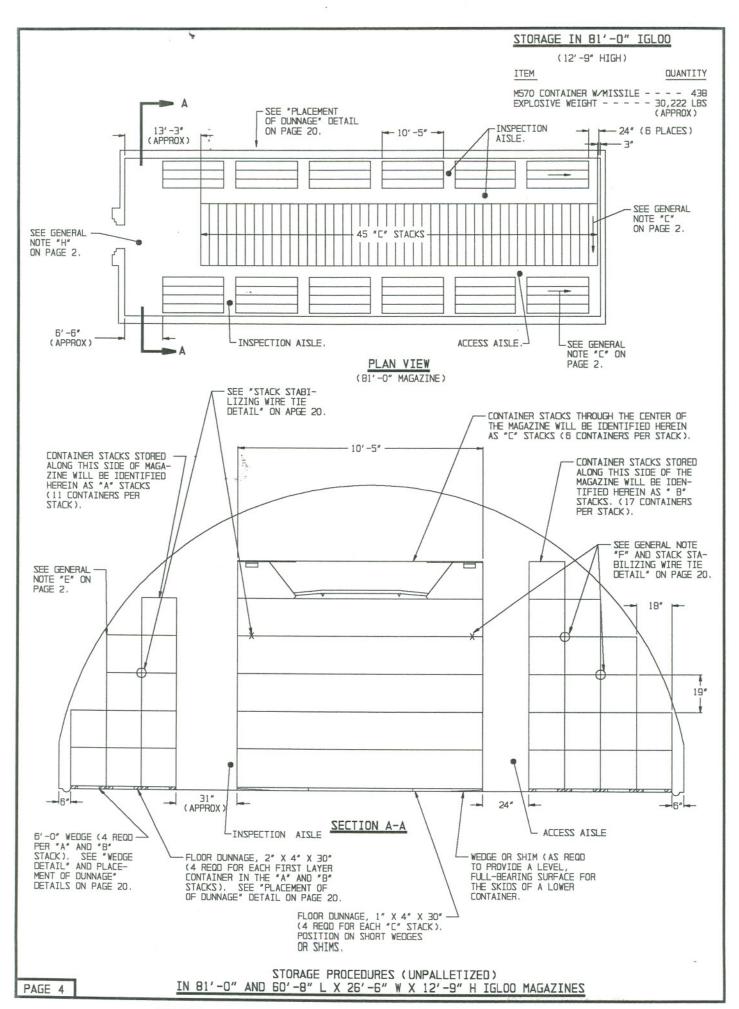
- 1. ADDING STORAGE PROCEDURES FOR PALLETIZED UNITS.
- 2. ADDING STORAGE PROCEDURES FOR STRADLEY AND OVAL-ARCH MAGAZINES.
- ADDING EOD REQUIREMENTS.
- 4. UPDATING GENERAL NOTES AND DRAWING FORMAT.

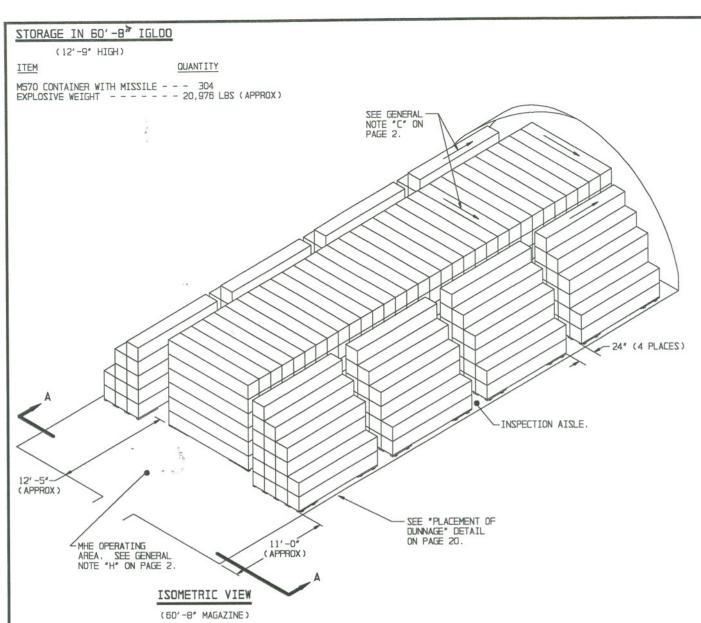
REVISION NO. 3, DATED JULY 1994, CONSISTS OF:

- 1. UPDATING GENERAL NOTES AND DRAWING FORMAT.
- CHANGING EXPLOSIVE WEIGHTS AND GROSS WEIGHTS OF CONTAINERS AND PALLET UNITS.
- CHANGING THE QD CLASS AND COMPATABILITY GROUP IN NOTE "C".

PAGE 2



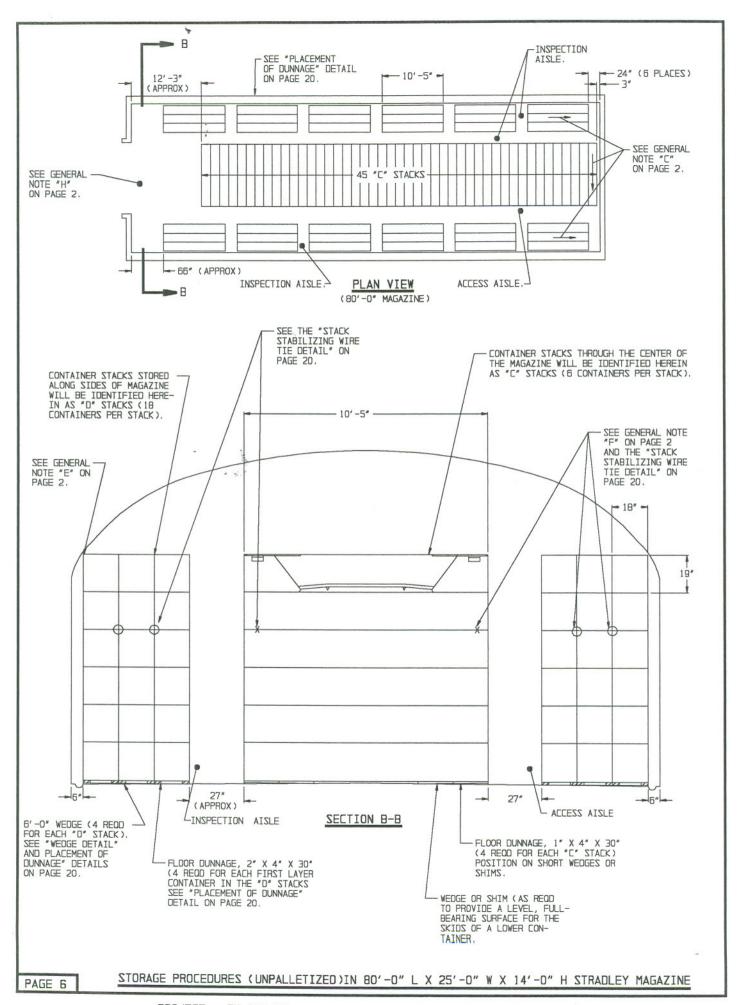


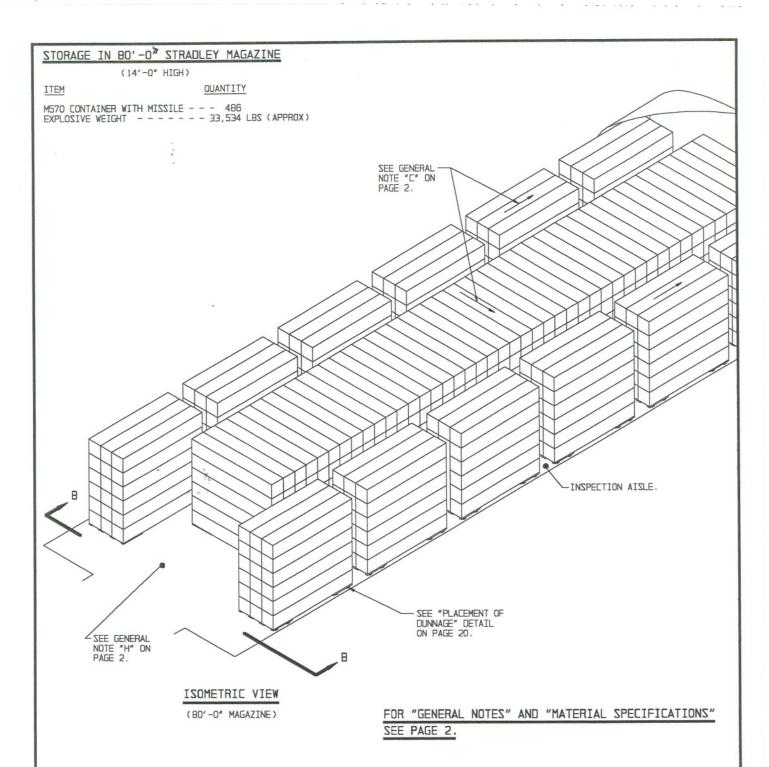


FOR	"GENERAL	NOTES"	AND	"MATERIAL	SPECIFICATIONS"
SEE	PAGE 2.				

	BILL OF MATERIAL PER STACK *					
		6'-0"	WIRE TIE			
STACK*	QUANTITY	SIZE	LINEAR FEET	WEDGES	REQUIREMENTS	
"A"	12	2" X 4" X 30"	30	4	24"	
"B"	16	2" X 4" X 30"	40	4	48"	
"C"	4	1" X 4" X 30"	10	ZMIHZ	24"	

^{*} SEE "SECTION A-A" FOR IDENTIFICATION OF STACKS.

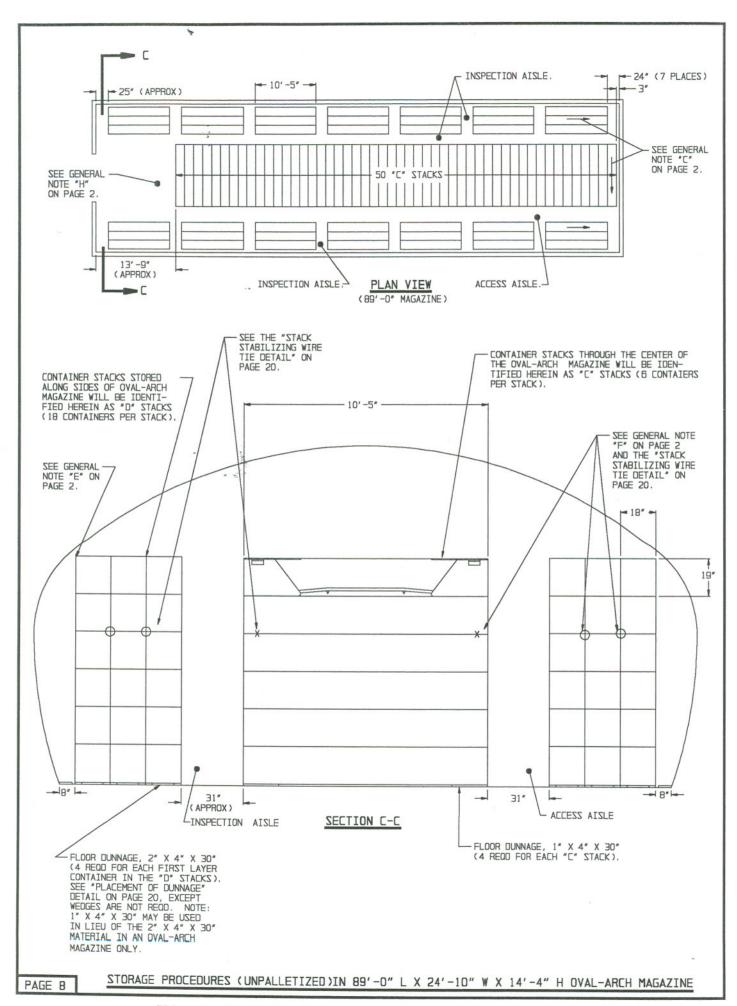


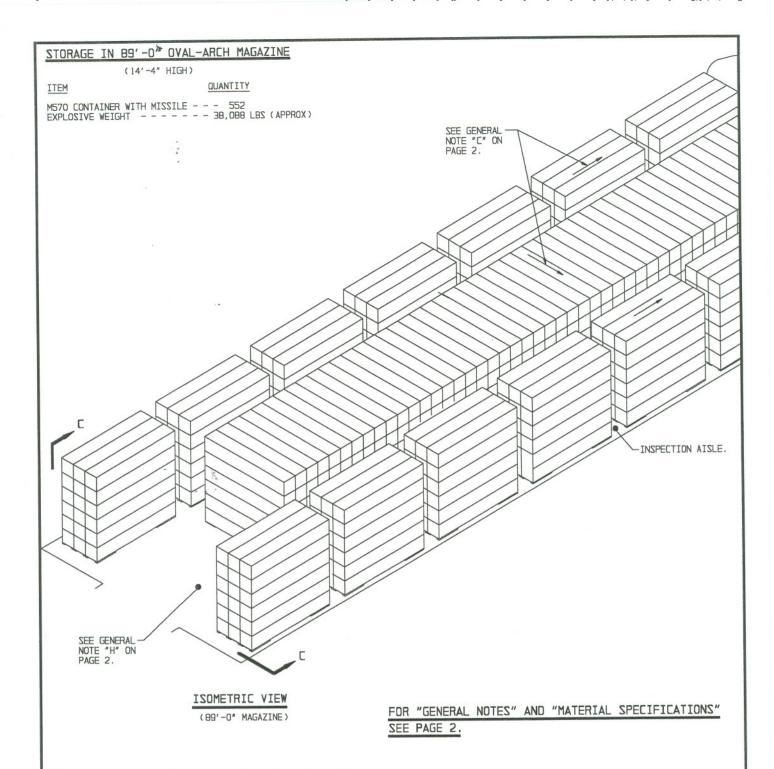


BILL OF MATERIAL PER STACK *					
LUMBER				6'-0"	WIRE TIE
STACK*	QUANTITY	SIZE LINEAR FEET		WEDGES	REQUIREMENTS
"C"	4	1" X 4" X 30"	10	ZMIHZ	24"
"D"	12	2" X 4" X 30"	30	4	8' -0"

* SEE "SECTION B-B" FOR IDENTIFICATION OF STACKS.

STORAGE PROCEDURES (UNPALLETIZED) IN 80'-0" L X 25'-0" W X 14'-0" H STRADLEY MAGAZINE

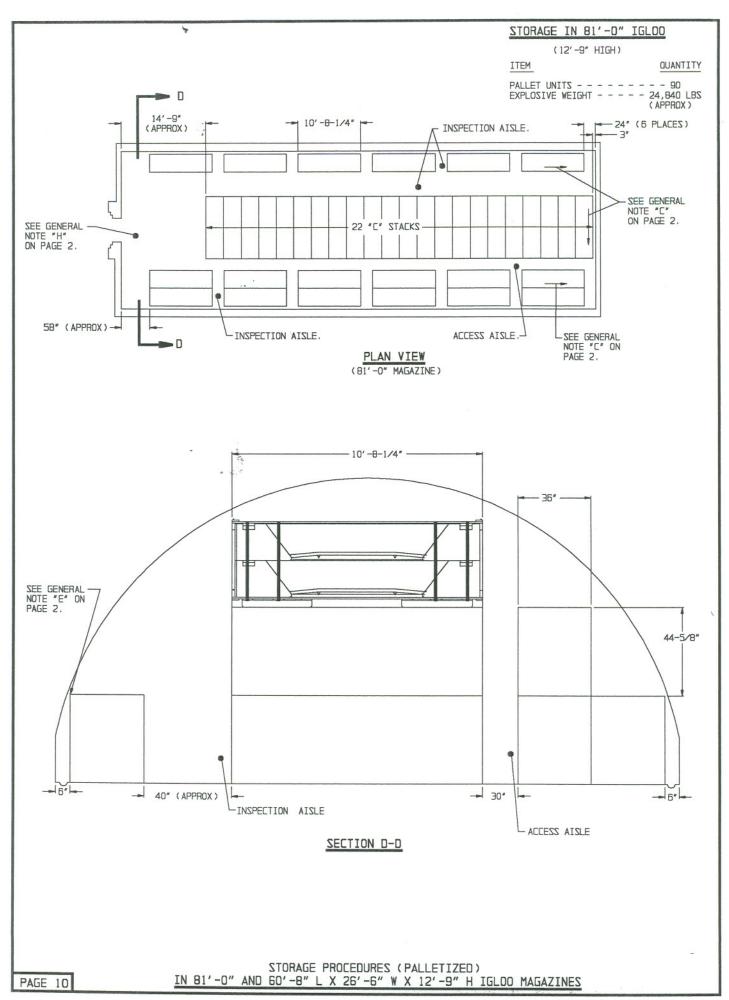


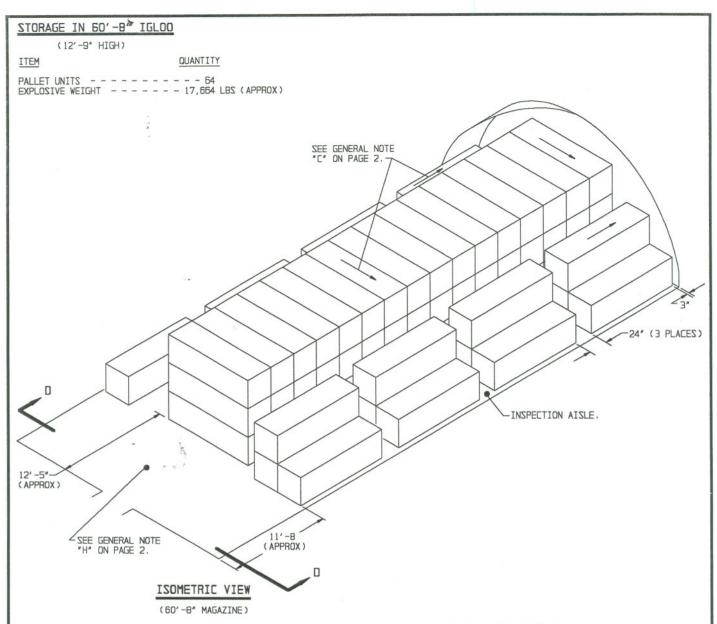


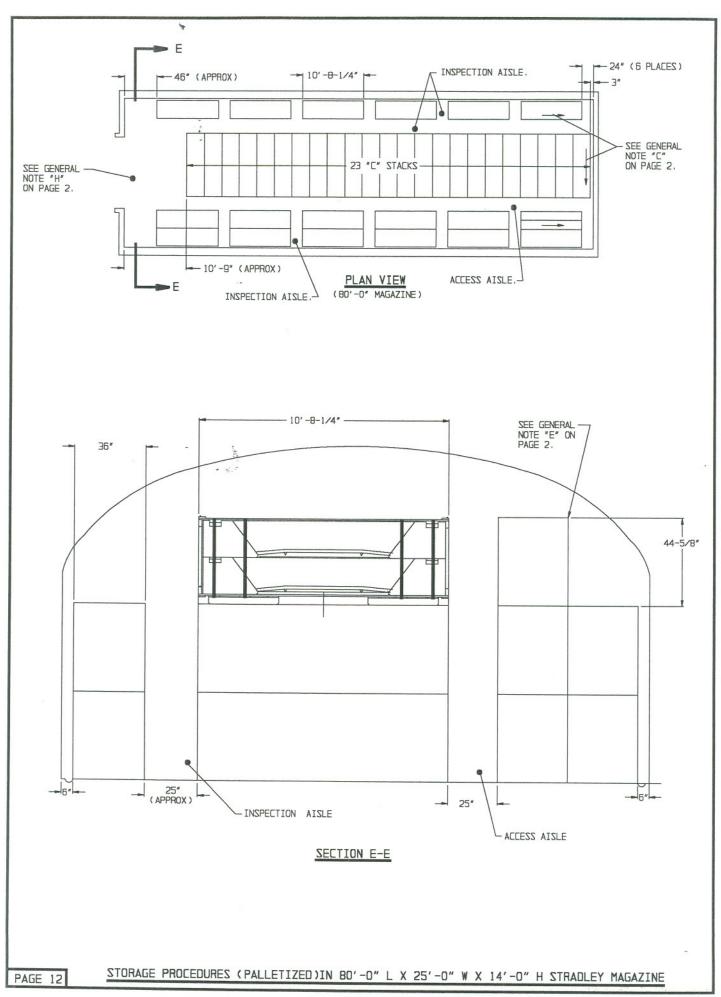
	BILL	OF MATERIAL	PER STACK	*
		LUMBER		WIRE TIE
STACK*	QUANTITY	SIZE	LINEAR FEET	REQUIREMENTS
"C"	4	1" X 4" X 30"	10	24"
"D"	12	2" X 4" X 30"	30	8' -0"

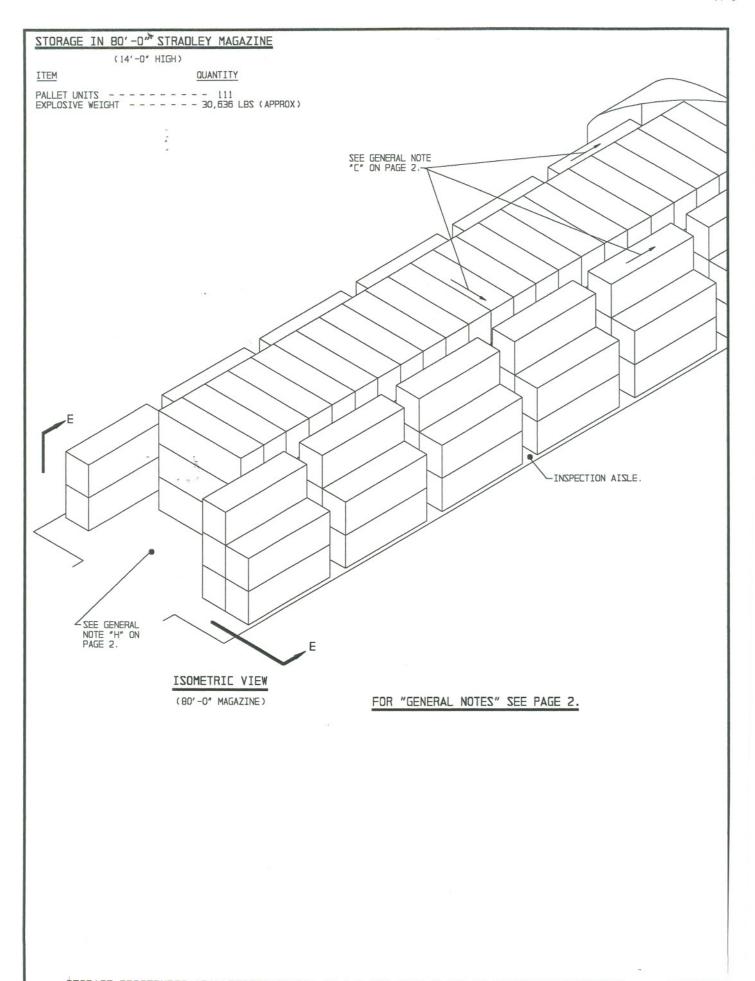
* SEE "SECTION C-C" FOR IDENTIFICATION OF STACKS.

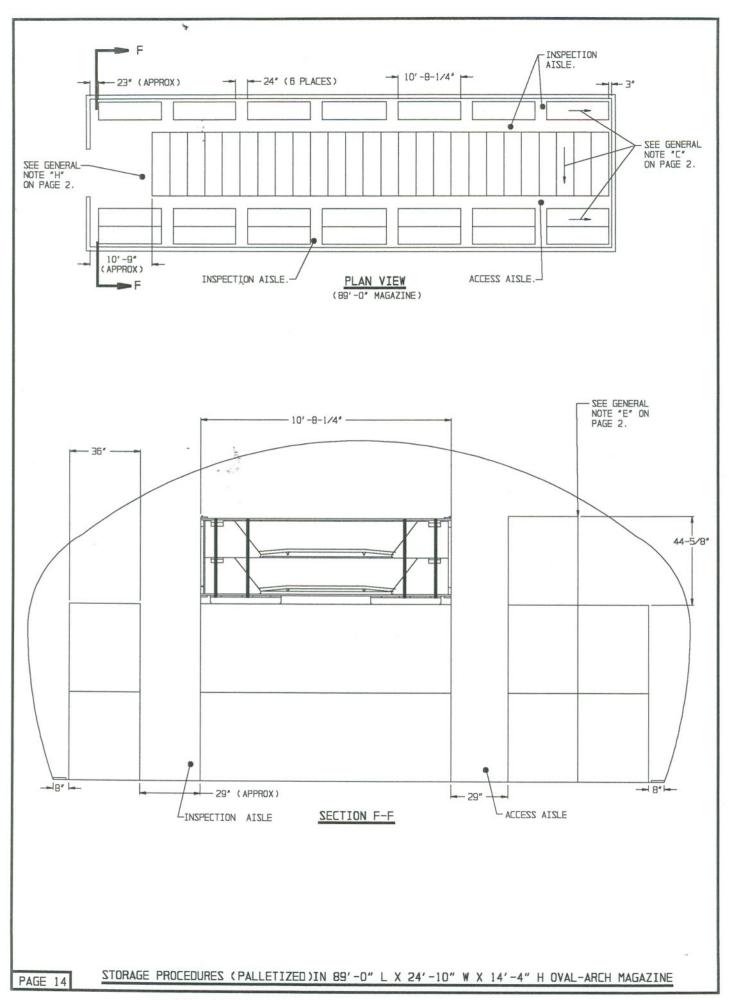
STORAGE PROCEDURES (UNPALLETIZED) IN 89'-0" L X 24'-10" W X 14'-4" H OVAL-ARCH MAGAZINE

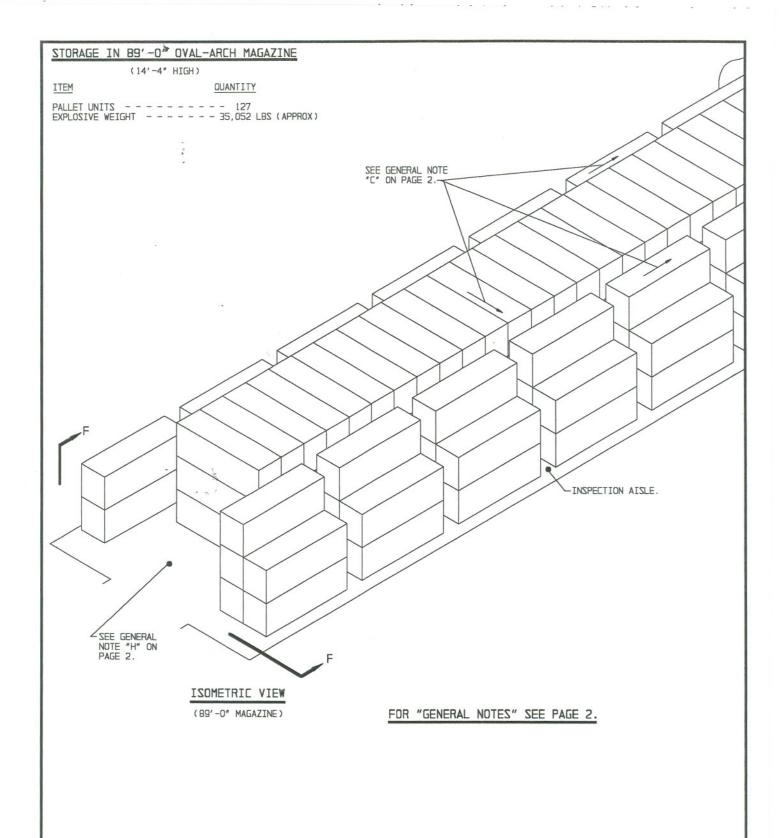




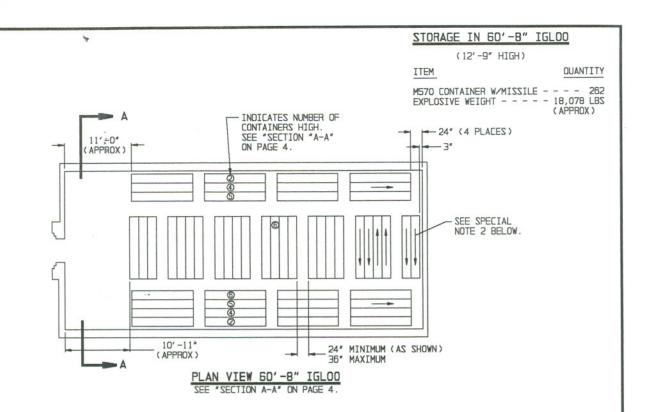








STORAGE PROCEDURES (PALLETIZED) IN 89'-0" L X 24'-10" W X 14'-4" H OVAL-ARCH MAGAZINE



SPECIAL NOTES:

- THE PROCEDURES DEPICTED ON PAGES 16 THRU 19 ARE APPLICABLE TO THOSE MAGAZINES WHERE AN EOD REDUIREMENT IS TO BE PROVIDED.
- CONTAINERS SHALL BE PLACED WITH THE FORWARD END FACING IN THE DIRECTION OF THE ARROWS AS SHOWN ON THE PLAN YIEWS.
- FOR SECTION VIEWS REFER TO THE APPLICABLE PAGES AS DESIGNATED. FLOOR DUNNAGE WILL BE PROVIDED AS SPECIFIED.
- SEE GENERAL NOTE "F" ON PAGE 2 AND THE "STACK STABILIZING WIRE TIE DETAIL" ON PAGE 20 FOR ADDITIONAL GUIDANCE PERTINTENT TO UNPALLETIZED CONTAINERS.
- USE OF THE 36" WIDE AISLE WILL DECREASE THE QUANTITY OF ITEMS STORED IN A MAGAZINE.

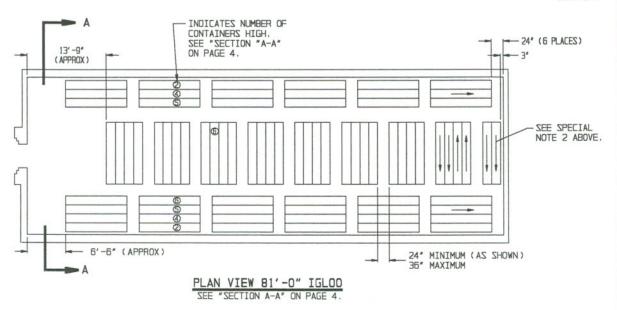
STORAGE IN 81'-0" IGLOD

(12'-9" HIGH)

ITEM

QUANTITY

M570 CONTAINER W/MISSILE - - - 372 EXPLOSIVE WEIGHT - - - 25,668 LBS (APPROX)



PAGE 16

EOD REQUIREMENTS FOR UNPALLETIZED UNITS

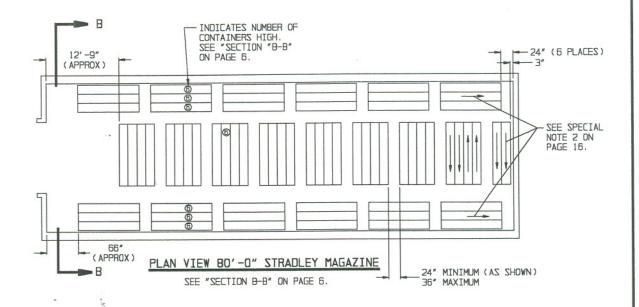
STORAGE IN 80'-0" STRADLEY MAGAZINE

(14'-0" HIGH)

ITEM

QUANTITY

M570 CONTAINER W/MISSILE - - - - - 420 EXPLOSIVE WEIGHT - - - - - 28,980 LBS (APPROX)



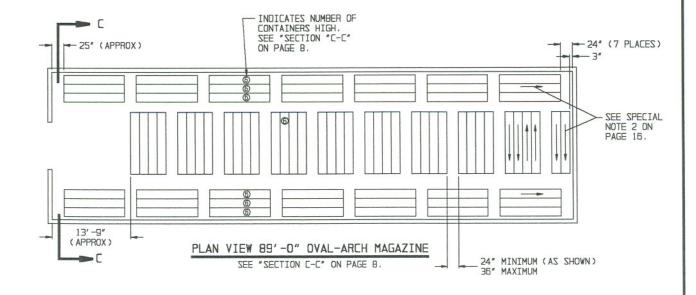
STORAGE IN 89'-0" OVAL-ARCH MAGAZINE

(14'-4" HIGH)

ITEM

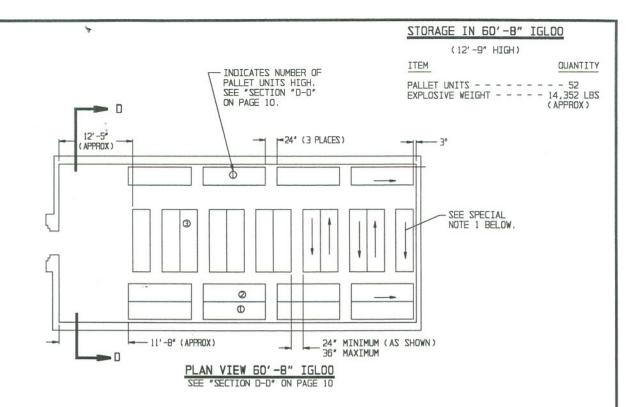
QUANTITY

M570 CONTAINER W/MISSILE - - - - - - 480 EXPLOSIVE WEIGHT - - - - - - 33,120 LBS (APPROX)



EOD REQUIREMENTS FOR UNPALLETIZED UNITS

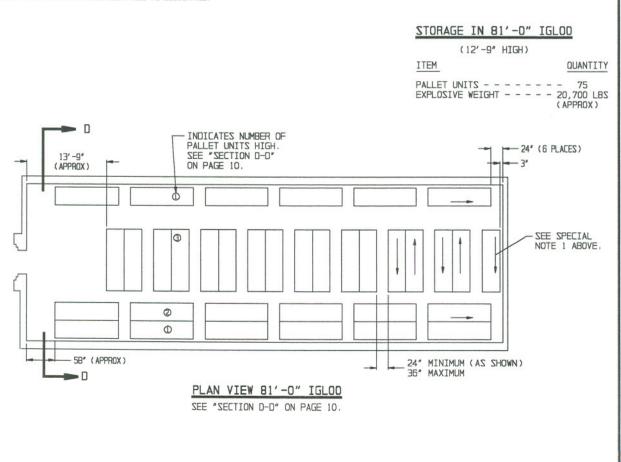
PAGE 17



SPECIAL NOTES:

PAGE 18

- CONTAINERS SHALL BE PLACED WITH THE FORWARD ENDS FACING IN THE DIRECTION OF THE ARROWS AS SHOWN ON THE PLAN VIEW.
- 2. FOR SECTION VIEWS REFER TO THE APPLICABLE PAGES AS DESIGNATED.



EOD REQUIREMENTS FOR PALLETIZED UNITS

STORAGE IN 80'-0" STRADLEY MAGAZINE

(14'-0" HIGH)

QUANTITY ITEM PALLET UNITS - - - - - - - - 93 EXPLOSIVE WEIGHT ----- 25,668 LBS (APPROX)

- E INDICATES NUMBER OF PALLET UNITS HIGH. SEE "SECTION "E-E" -24" (6 PLACES) 12' -9" ON PAGE 12. (APPROX) 0 SEE SPECIAL NOTE 1 ON PAGE 18. 3 1 0 46" 24" MUNIMUM (AS SHOWN)

MUNIMAM "8E (APPROX)

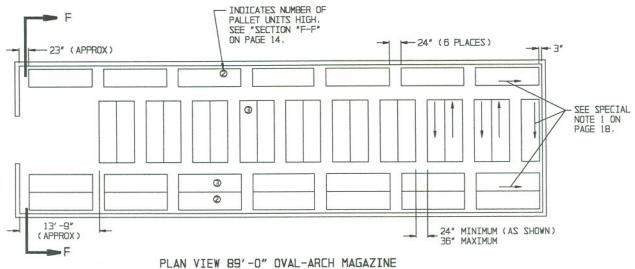
PLAN VIEW 80'-0" STRADLEY MAGAZINE

SEE "SECTION E-E" ON PAGE 12.

STORAGE IN 89'-0" OVAL-ARCH MAGAZINE

(14'-4" HIGH)

QUANTITY ITEM PALLET UNITS - - - - - - - - - - 106 EXPLOSIVE WEIGHT - - - - - - 29,256 LBS (APPROX)



SEE "SECTION F-F" ON PAGE 14.

EOD REQUIREMENTS FOR PALLETIZED UNITS

PAGE 19

