

APPROVED BY
MTMTS

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CHAPARRAL

MINIMUM REQUIREMENTS FOR THE
HANDLING, STOWAGE, AND BRACING
ABOARD SHIPS OF MAINTENANCE
SHOP SET, AN/TSM-95 AND/OR
AN/TSM-96 (CRATED)

REVISIONS				DRAFTSMAN	PROJ ENG
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				APPROVED BY ORDER OF COMMANDING GENERAL	
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				U. S. ARMY MATERIEL COMMAND	
				AUGUST 1972	
				CLASS	DIVISION
				19	48
				DRAWING	FILE
				7259	GSE 18CH4

DO NOT SCALE

NOTES

GENERAL:

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AMCR 740-13.
- B. THIS DRAWING DEPICTS MINIMUM PROCEDURES APPLICABLE TO THE HANDLING, STOWAGE, AND BRACING ABOARD SHIPS OF MAINTENANCE SHOP SET, AN/TSM-95 AND/OR AN/TSM-96 (CRATED) FOR THE CHAPARRAL MISSILE SYSTEM.
- C. OTHER TYPES OF CARGO MAY BE STOWED IN THE SAME HOLD OR TWEEN DECK WITH THE MAINTENANCE SHOP SHOWN HEREIN.
- D. LADING DATA:

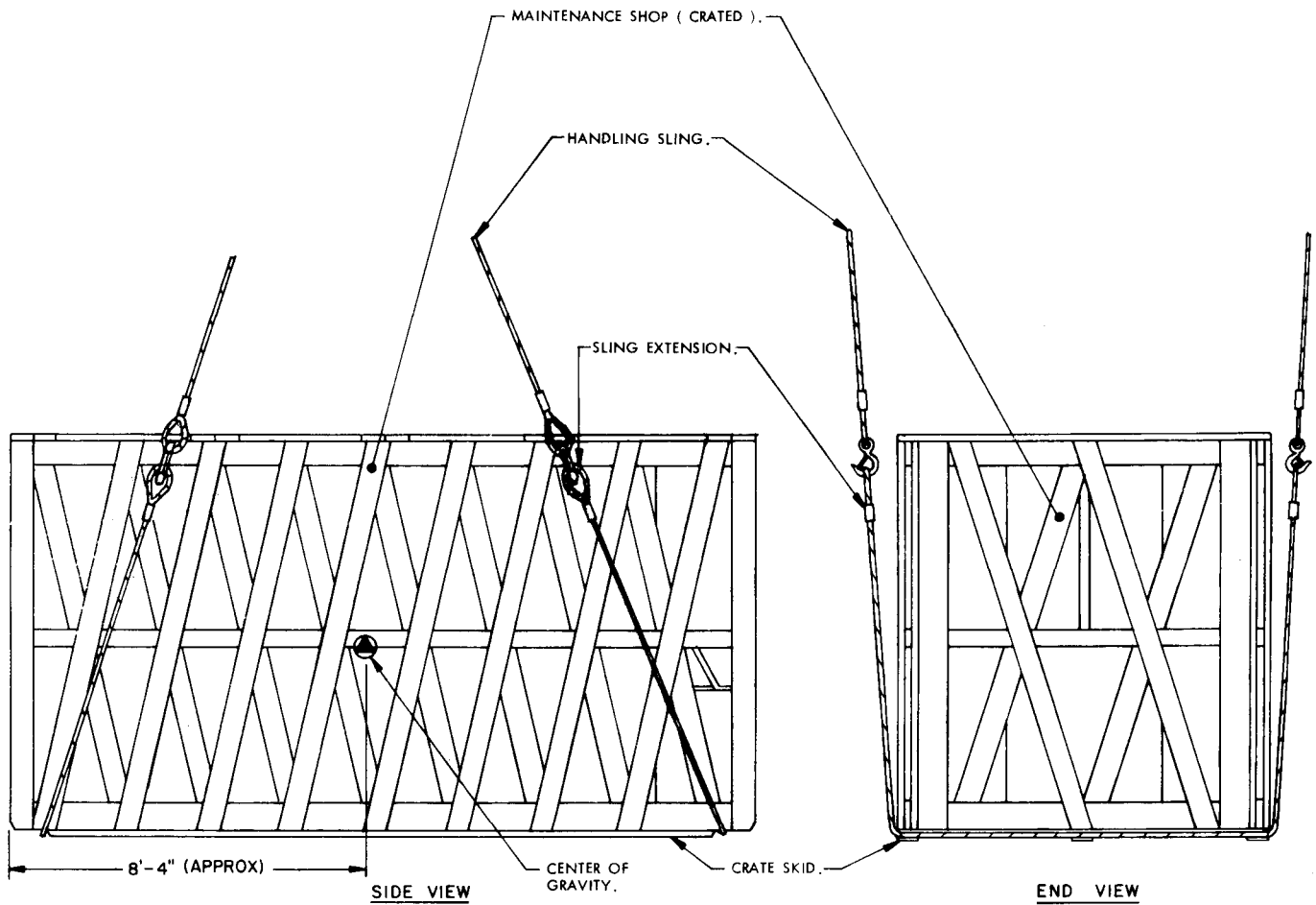
DIMENSIONS OF CRATE (TYPICAL) ----- 16'-5-1/2" LONG X 7'-6" WIDE X
7'-11" HIGH.
GROSS WEIGHT (AN/TSM-95) ----- 8,785 LBS (APPROX).
(AN-TSM-96) ----- 6,140 LBS (APPROX).
CUBE ----- 977 CU. FT.

HANDLING:

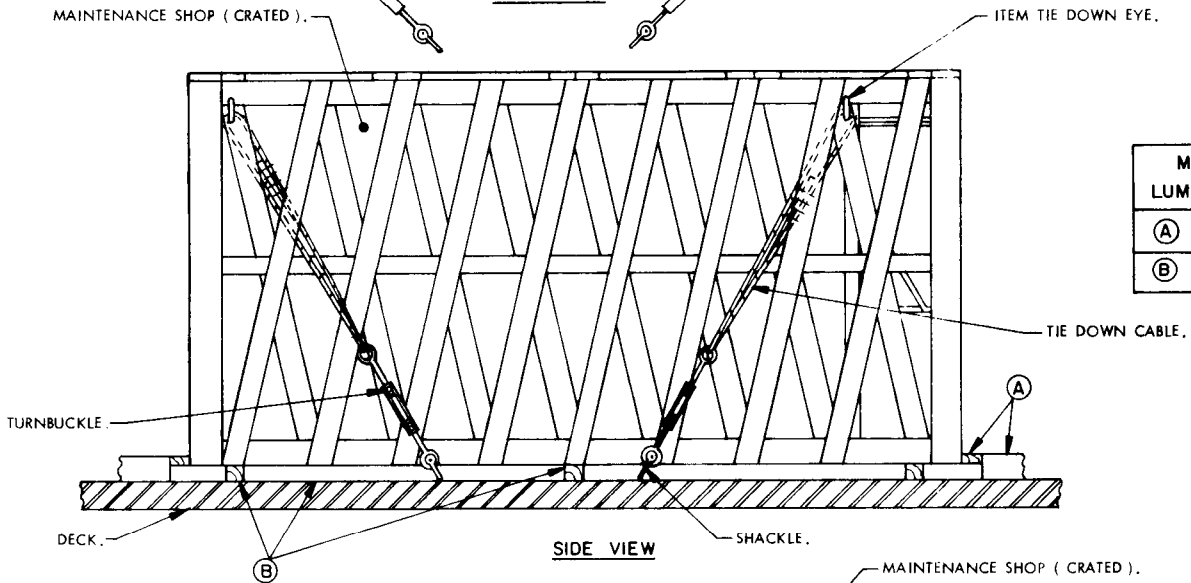
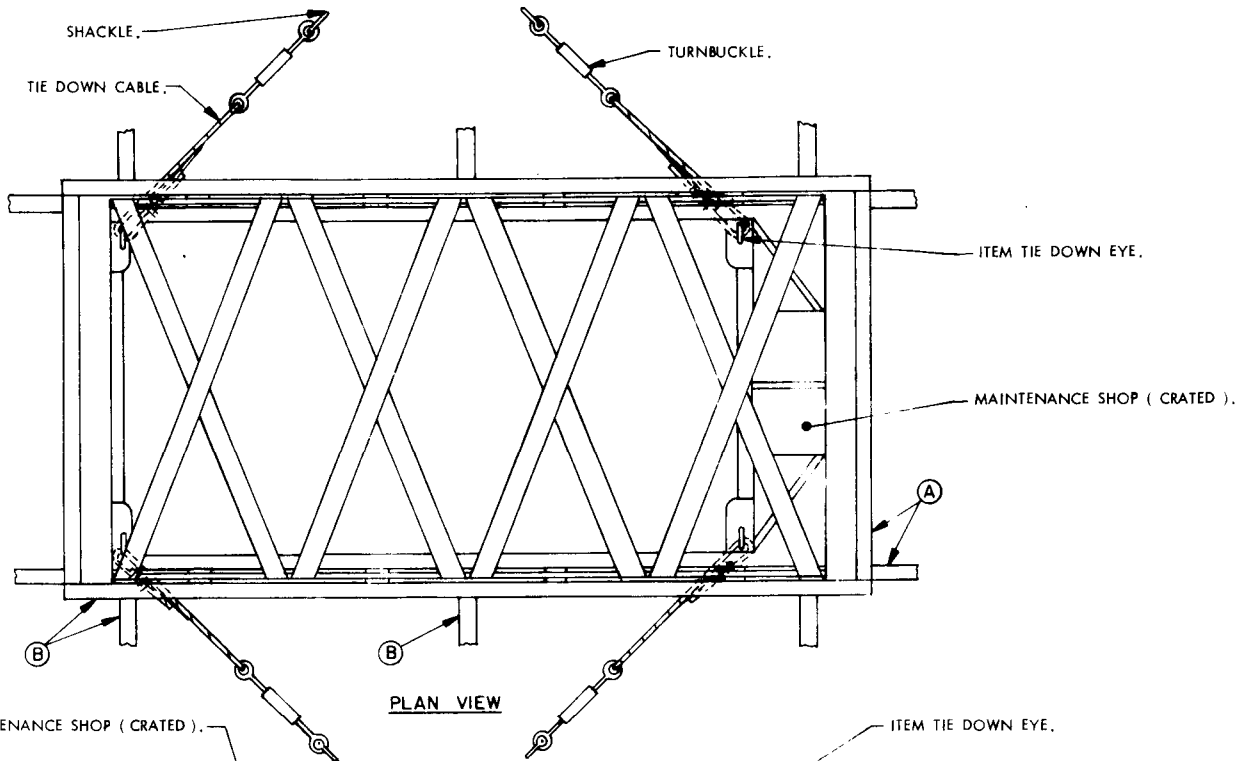
- A. PERTINENT PROVISIONS OF TITLE 46 CODE OF FEDERAL REGULATIONS APPLY.
- B. HANDLING OF THE MAINTENANCE SHOP (CRATED) SHOULD BE ACCOMPLISHED BY USING SLING EXTENSIONS SECURELY POSITIONED IN THE NOTCHES OF THE CRATE SKIDS AS SHOWN.
- C. EACH CRATED ITEM SHALL BE HANDLED INDIVIDUALLY. STACKING OF CRATED ITEMS IS NOT PERMITTED.
- D. THE HANDLING SLING SHALL BE OF A DESIGN AND CONFIGURATION TO LIFT THE ITEM IN SUCH A MANNER THAT THE CABLE LEGS DO NOT APPLY EXCESSIVE PRESSURE WHICH MAY DAMAGE THE CRATE.
- E. ALTHOUGH DESIRABLE, A LEVEL LIFT IS NOT MANDATORY. THE CENTER OF GRAVITY OF THIS ITEM IS SHOWN TO ASSIST IN DETERMINING CABLE LENGTHS TO ASSURE A SAFE LIFT.

STOWAGE AND BRACING:

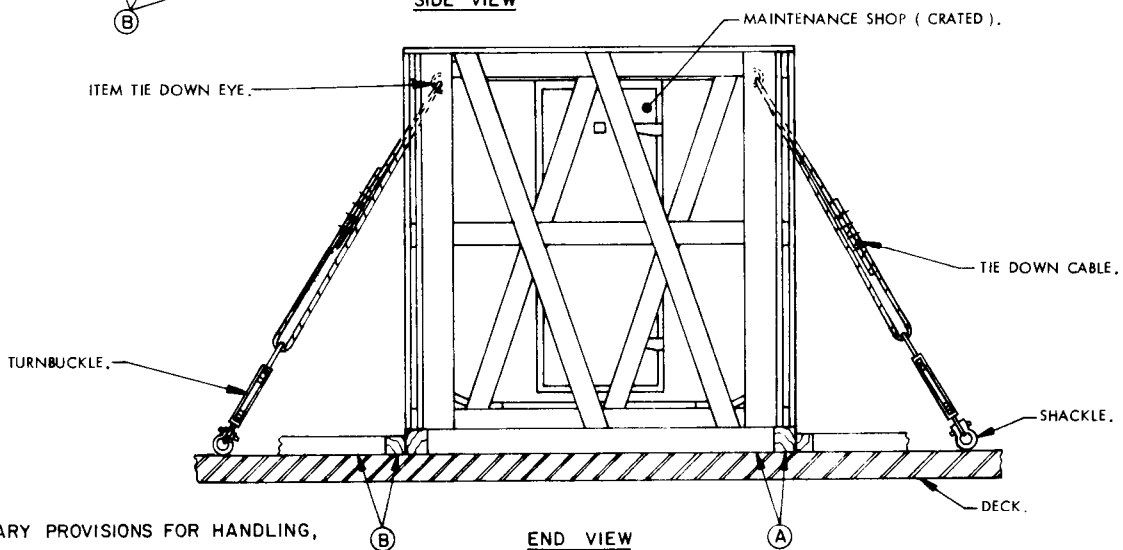
- A. STOWAGE OF THIS ITEM IS RESTRICTED TO ONE (1) LAYER HIGH. HOWEVER, OTHER CARGO ITEMS MAY BE OVER-STOWED BY CONSTRUCTING A DUNNAGE FLOOR ON TOP OF THE DEPICTED CRATES. CAUTION: THE WEIGHT OF OVER-STOWED CARGO MUST NOT CRUSH OR OTHERWISE DAMAGE THE CRATES OF THE MAINTENANCE SHOP.
- B. SPECIES, GRADE AND SIZE OF LUMBER TO BE USED WILL COMPLY WITH REQUIREMENTS OF CURRENT SHIPWRIGHT-CARPENTRY AND RELATED SERVICES CONTRACTS. BRACING METHODS AND LUMBER SIZES DEPICTED IN THIS DRAWING ARE CONSIDERED MINIMUM AND ARE NOT INTENDED TO CONFLICT WITH CONTRACT REQUIREMENTS.
- C. A TYPICAL TIE DOWN PROCEDURE FOR THE CRATED ITEM IS SHOWN ON PAGE 4 AND DEPICTS THE PREFERRED METHOD OF USING CABLES AND TURNBUCKLES. IF USED, A TURNBUCKLE MUST BE OF A SIZE EQUAL IN STRENGTH TO THE MINIMUM SIZE CABLE REQUIRED TO SECURE THE ITEM. IN LIEU OF CABLES AND TURNBUCKLES, SECUREMENT MAY BE ACCOMPLISHED BY OTHER ACCEPTED METHODS.



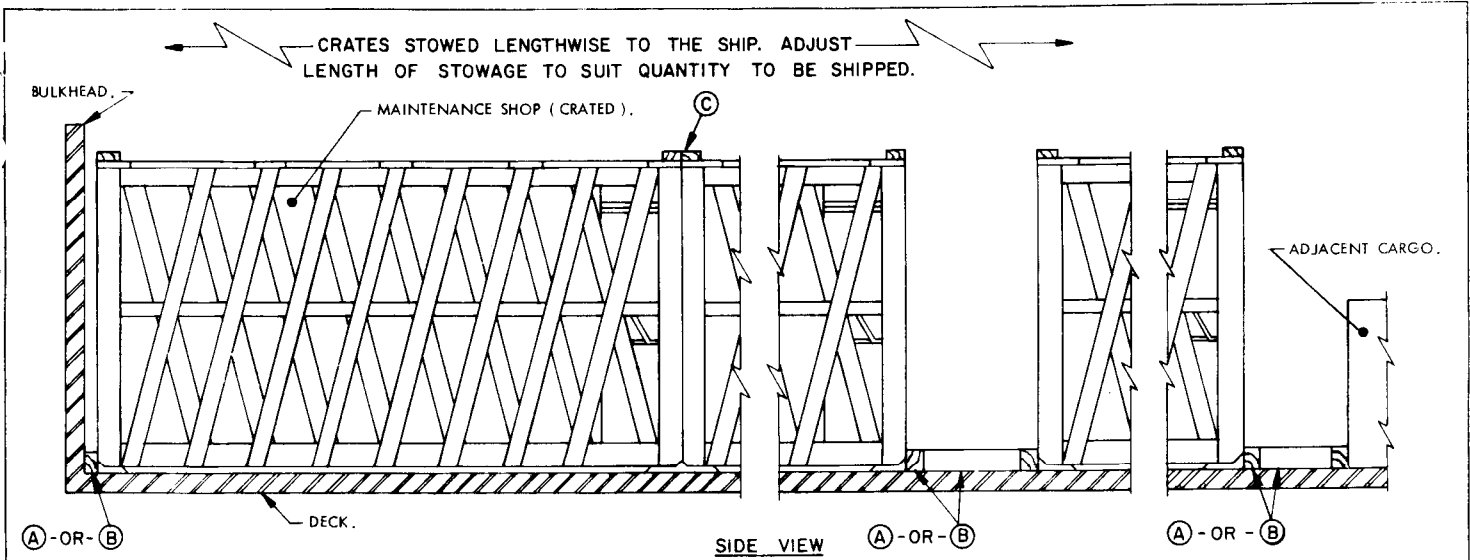
PRECAUTIONARY PROVISIONS FOR HANDLING,
STOWAGE AND BRACING AS SPECIFIED IN THE
NOTES ON PAGE 2 MUST BE OBSERVED.



MINIMUM LUMBER SIZES	
(A)	4" X 6"
(B)	4" X 4"



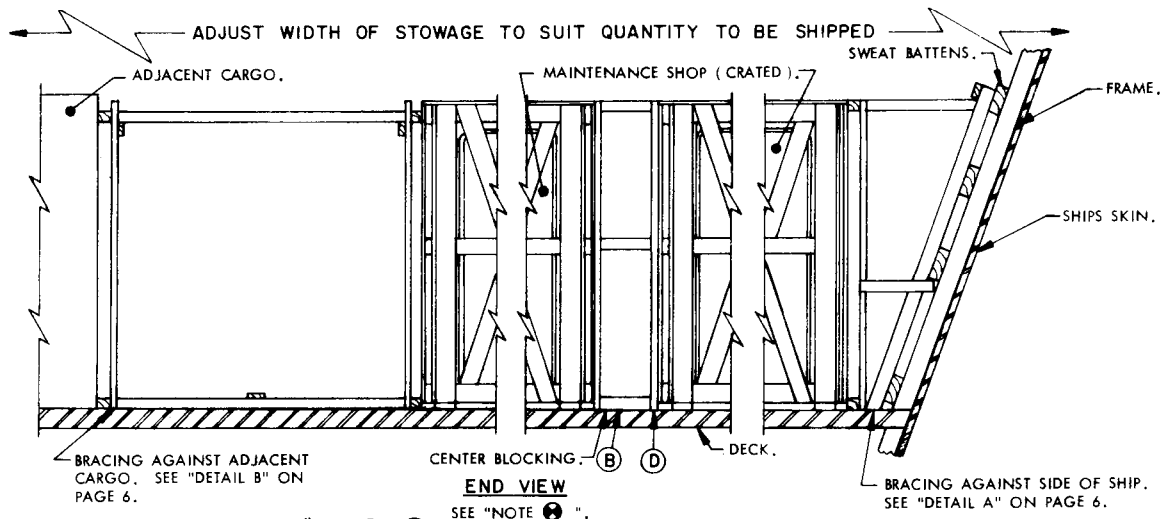
PRECAUTIONARY PROVISIONS FOR HANDLING, STOWAGE AND BRACING AS SPECIFIED IN THE NOTES ON PAGE 2 MUST BE OBSERVED.



THIS VIEW SHOWS BRACING AGAINST END OF CRATE AND USING FLOOR LINE BRACING MATERIAL (A) (4" X 6", 6" VERTICAL). WHEN BRACING AGAINST CRATE SIDES, USE FLOOR LINE BRACING MATERIAL (B) IN LIEU OF (A) MATERIAL.

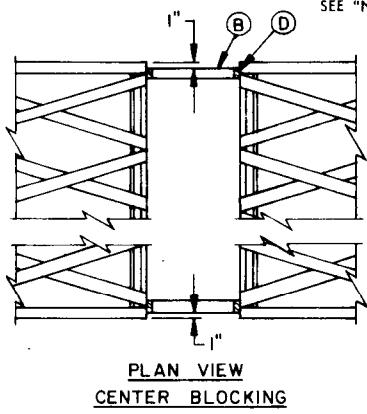
MINIMUM LUMBER SIZES	
(A)	4" X 6"
(B)	4" X 4"
(C)	2" X 6"
(D)	2" X 4"

BRACING METHOD II, W/O CABLE

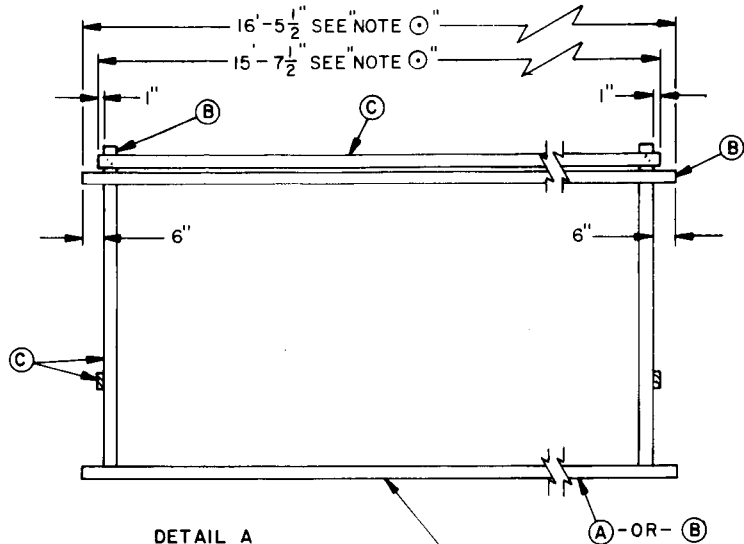
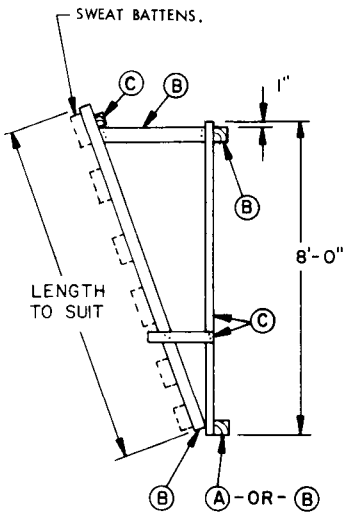


NOTE 1:
THE "END VIEW" SHOWS BRACING AGAINST SIDE OF CRATE AND USING FLOOR LINE BRACING MATERIAL (B) (4" X 4"). WHEN BRACING AGAINST CRATE ENDS, USE FLOOR LINE BRACING MATERIAL (A) (4" X 6", 6" VERTICAL) IN LIEU OF (B) MATERIAL.

PRECAUTIONARY PROVISIONS FOR HANDLING, STOWAGE AND BRACING AS SPECIFIED IN THE NOTES ON PAGE 2 MUST BE OBSERVED.



BRACING METHOD III, W/O CABLE



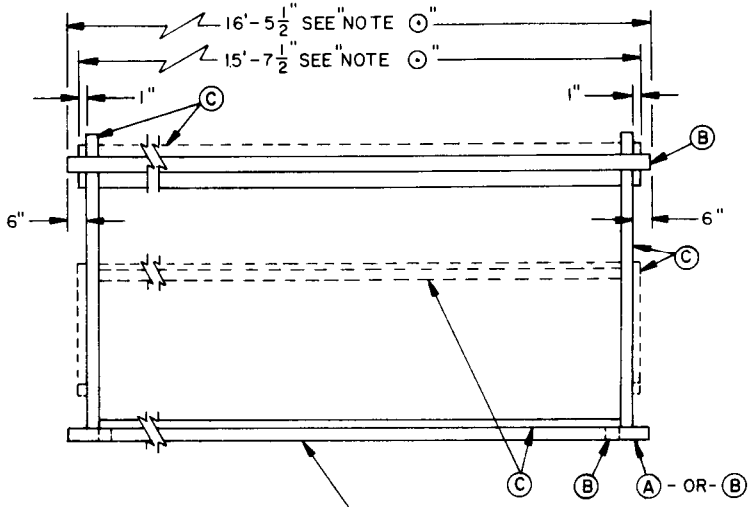
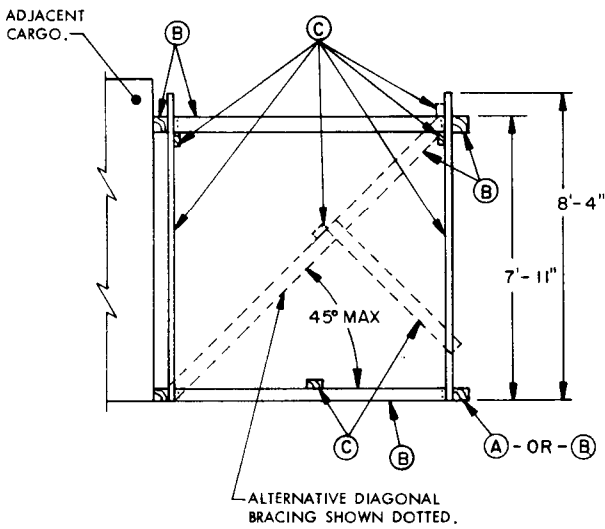
DETAIL A
SUGGESTED BRACING AT SIDE OF SHIP.

FLOOR LINE BRACING AGAINST CRATE. SEE "NOTE C".

NOTE C:

DIMENSIONS SHOWN ARE FOR BRACING AGAINST SIDE OF CRATE AND USING FLOOR LINE BRACING MATERIAL (B). WHEN BRACING AGAINST CRATE ENDS, CHANGE DIMENSIONS OF THE BRACING ASSEMBLY, USE 7'-6" IN LIEU OF 16'-5-1/2" AND 6'-8" IN LIEU OF 15'-7-1/2". ALSO USE FLOOR LINE BRACING MATERIAL (A) (4" X 6", 6" VERTICAL) AGAINST CRATE ENDS IN LIEU OF (B) MATERIAL.

MINIMUM LUMBER SIZES	
(A)	4" X 6"
(B)	4" X 4"
(C)	2" X 4"



DETAIL B
SUGGESTED BRACING AGAINST ADJACENT CARGO.

FLOOR LINE BRACING AGAINST CRATE. SEE "NOTE C".

PRECAUTIONARY PROVISIONS FOR HANDLING, STOWAGE AND BRACING AS SPECIFIED IN THE NOTES ON PAGE 2 MUST BE OBSERVED.