APPROVED BY
MECH DIV AAR, THEIR LETTER
DATED 1/13/67 FILE LR 11.0

SIGNED Lagaret Action RSE

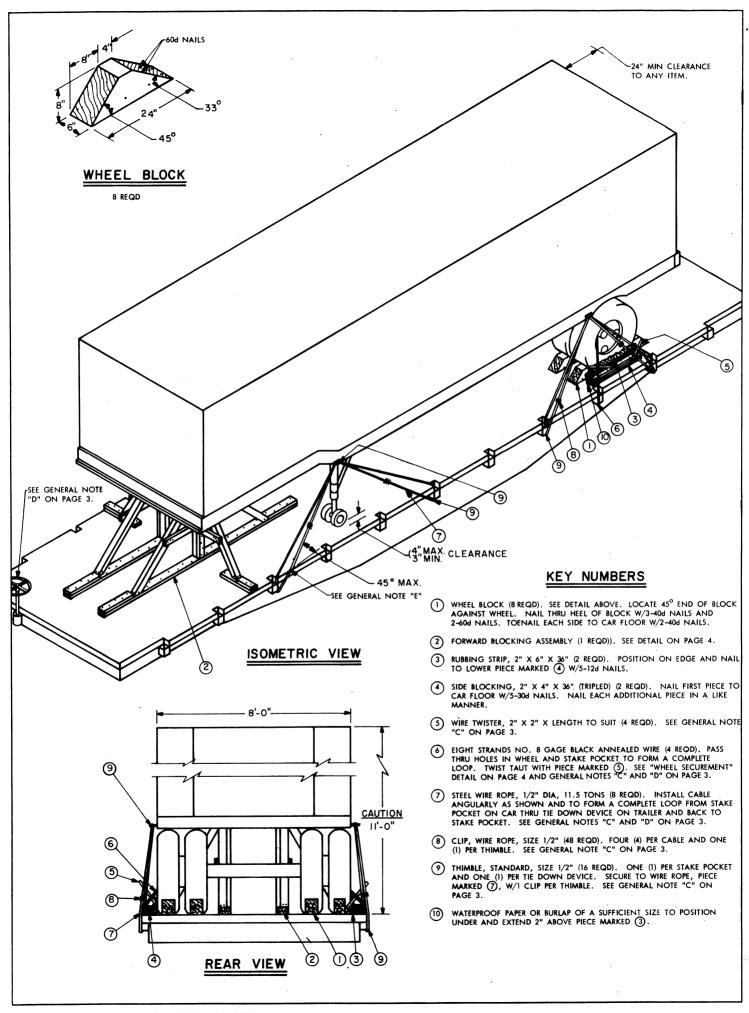
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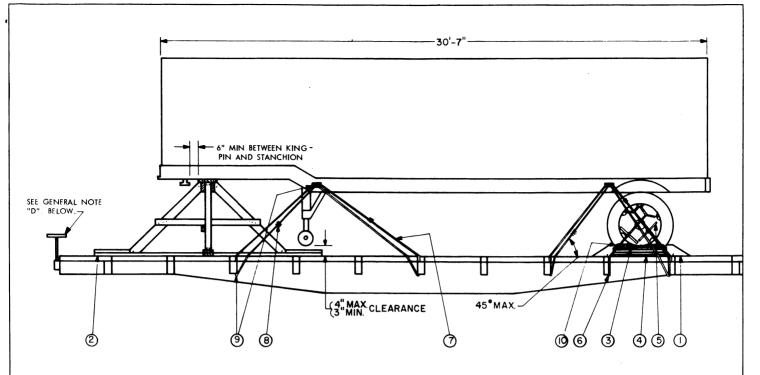
AADCP

LOADING & BRACING ON FLAT CAR OF EQUIPMENT VAN, AN/TSQ-51

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DO NOT SCALE





ELEVATION VIEW

GENERAL NOTES

A. LOAD AS SHOWN IS BASED ON A FLAT CAR 9'-6" WIDE (PLATFORM); WIDER CARS CAN BE USED. ONLY ONE UNIT OF LADING SHOWN; HOWEVER MULTIPLES OF UNITS, AS SHOWN OR DISSIMILAR IN NATURE, MAY BE LOADED ON A CAR. THE NUMBER OF UNITS TO BE LOADED ON A CAR WILL BE DEPENDENT ON THE CAR SIZE, AND NUMBER OF UNITS TO BE SHIPPED WITH THE VIEW OF FULL UTILIZATION OF CARRIER EQUIPMENT.

<u>CAUTION:</u> LOAD AS SHOWN MAY REQUIRE "CLEARANCE" CONSIDERATION BECAUSE OF EXCESSIVE LADING SIZE.

NOTICE TO TRANSPORTATION OFFICER:

IN LIEU OF REQUISITIONING A STANDARD FLAT CAR AS DEPICTED HEREIN EVERY EFFORT SHOULD BE MADE TO ACQUIRE A TRAILER-ON-FLAT-CARTOFC) RAIL CAR FOR THE LOADING OF THIS ITEM. SECUREMENT OF ITEM ON TOPC RAIL CAR WILL BE IN ACCORDANCE WITH CAR OWNER'S SPECIFICATION AVAILABILITY OF EQUIPMENT AND INTERCHANGE ROUTING OF SHIPMENT WILL GOVERN UTILIZATION OF TOFC CARS.

B. LADING DATA:

ITEM DIMENSIONS - 30'-7" LONG X 8'-0" WIDE X 11'-0" HIGH. ITEM GROSS WEIGHT - 17,257 POUNDS (APPROX).

- C. REFER TO ORD DWG 19-48-G-ORDJU-588, "WIRE ROPE AND ANNEALED WIRE APPLICATION METHODS FOR SECURING LADING ON RAIL & MOTOR CARRIER EQUIP" FOR PROPER TIE DOWN APPLICATION.

 CAUTION: DURING WIRE ROPE INSTALLATION AVOID CONTACT WITH ALL ELECTRICAL WIRING, VEHICLE CONTROLS AND OTHER APPURTENANCES.
- REFER TO ASSOCIATION OF AMERICAN RAILROADS MANUAL, "GENERAL RULES GOVERNING THE LOADING OF COMMODITIES ON OPEN TOP CARS", FOR APPLICABLE LOADING RULES: PREFACE, 1-A, 2, 3, 4, 5, 7, 9, 10-D, 14, 15,

ADDITIONALLY, ALL HAND BRAKES MUST BE "SET" WITH THE HAND LEVERS WIRE TIED OR BLOCKED, AND TIRES WILL BE INFLATED 10 PSI ABOVE REG-ULAR OPERATING PRESSURE.

WIRE ROPE CABLE MUST BE TENSIONED SUFFICIENTLY TO CAUSE SLIGHT VEHICLE BODY DEPRESSION. TENSIONING CAN BE ACCOMPLISHED BY EMPLOYING TWO (2) CABLE "GRIPPERS" AND AN APPLICABLY SIZED "COME-A-LONG" TYPE MECHANICAL HOIST.

2" X 6" 4" X 4" 43 58 10 40 NAILS NO. REQD POUNDS 12d (3-1/4") 16d (3-1/2") 60 1-1/2 20d (4") 1/4 30d (4-1/2") 106 5-1/2 40d (5") 56 3-1/260d (6")

BILL OF MATERIAL

LINEAL FEET

59

BOARD FEET

59

ROPE, STEEL WIRE, 1/2" DIA	
CLIP, 1/2"	48 REQD 21 LBS
THIMBLE, STANDARD, 1.2"	16 REQD 4 LBS
WIRE, NO. 8 GAGE	160' REQD 15 LBS
WATERPROOF PAPER OR BURLAP	AS REQD NIL

MATERIAL SPECIFICATIONS

LUMBER -: DOUGLAS FIR OR COMPARABLE LUMBER WITH STRAIGHT GRAIN AND FREE FROM MATERIAL DEFECTS. REF: FED

SPEC MM-L-751.

LUMBER

2" X 2" 2" X 4"

NAILS--: COMMON, CEMENT COATED. REF: FED SPEC FF-N-105. ALT: ANNULAR-RING TYPE NAIL OF SAME SIZE.

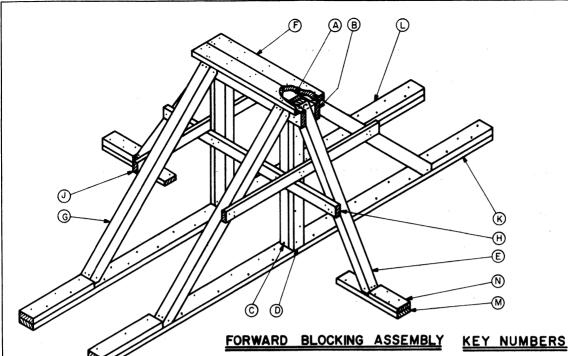
STEEL WIRE, PLAIN, PREFORMED, REGULAR LAY, 11.5 TONS, 6 X 19, FLEXIBLE IWRC, MACWHYTE WIRE ROPE CO (OR EQUAL). ROPE---: REF: FED SPEC RR-W-410.

CLIPS --: "U" BOLT, CROSBY, HEAVY DUTY.

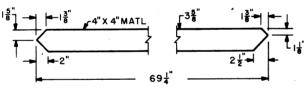
ANNEALED, BLACK. REF: FED SPEC QQ-W-461.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
EQUIPMENT VAN, AN/TSQ-51 - DUNNAGE		
10	TAL WEIGHT	17,822 LBS

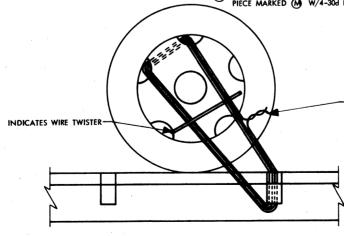


4" X 4" MATL **1**-2 ⅓ TOP END DETAIL: PIECE (E)



DETAIL: PIECE (G)

- (A) 4" X 4" X 28" (1 REQD).
- 2" X 6" X 40" (2 REQD). NAIL TO PIECE MARKED (A) W/6-12d NAILS. NAIL TO PIECES MARKED (C) AND (E) W/2-12d NAILS EACH. ➂
- C 4" X 4" X 45" (2 REQD). TOENAIL TO PIECES MARKED (A) AND (K) W/4-16d NAILS AT EACH END.
- 2" X 4" X 48-3/4" (2 REQD). NAIL TO PIECE MARKED (A) W/2-12d NAILS AND TO PIECE MARKED (C) W/7-12d NAILS.
- 4" X 4" X 57-1/4" (2 REQD). DOUBLE BEVEL EACH END. SEE "DETAIL: PIECE (E)" FOR BEVEL CUTS REQUIRED. TOENAIL TO PIECE MARKED (M) W/4-16d NAILS. TOENAIL TO PIECE MARKED (M) W/4-16d NAILS AFTER PARTIAL ASSEMBLY (PIECES MARKED (A) THRU (K)) HAS BEEN LOCATED ON THE RAIL CAR AND PIECE MARKED (M) HAS BEEN NAILED TO THE CAR FLOOR.
- (F) 2" X 6" X 40" (2 REQD). NAIL TO PIECES MARKED (A) AND (B) W/5-12d NAILS EACH AND TO PIECES MARKED (E) AND (G) W/2-12d NAILS AT EACH JOINT.
- 4" X 4" X 69-1/4" (4 REQD). DOUBLE BEVEL EACH END. SEE "DETAIL: PIECE (6)" FOR BEVEL CUTS REQUIRED. TOENAIL TO PIECE MARKED (8) W/4-16d NAILS. TOENAIL TO PIECE MARKED (8) W/4-16d NAILS BEFORE PARTIAL ASSEMBLY (PIECE MARKED (8) THRU (8)) HAS BEEN LOCATED UNDER THE ITEM AND PIECE MARKED (8) HAS BEEN NAILED TO THE CAR FLOOR. (G) 4" X 4" X 69-1/4" (4 REQD). DOUBLE BEVEL EACH END.
- (H) 2" X 4" X 68" (1 REQD). NAIL TO PIECES MARKED (C) AND (E) W/3-12d NAILS AT EACH JOINT.
- (J) 2" X 4" X 60" (2 REQD). NAIL TO PIECES MARKED (D) AND (G) W/3-12d NAILS AT EACH JOINT.
- (K) 2" X 6" X 12'-8" (2 REQD). NAIL TO THE CAR FLOOR W/1-30d NAIL EVERY 8".
- 2" X 6" X 24" (4 REQD). POSITION AGAINST PIECE MARKED () AND NAIL TO PIECE MARKED () W/5-30d NAILS. ℄
- 2" X 6" X 24" (2 REQD). NAIL TO THE CAR FLOOR W/5-30d NAILS.
- 2" X 6" X 12" 2 REQD). POSITION AGAINST PIECE MARKED (E) AND NAIL TO PIECE MARKED (W) W/4-30d NAILS. (N)



ONE CONTINUOUS WIRE, WITH ENDS TWISTED TOGETHER. NOTE: FORM THE TWISTED WIRE JOINT AT A LOCATION SO THAT THE JOINT WILL BE WITHIN ONE OF THE TWISTED PORTIONS OF THE COMPLETED CABLE ASSEMBLY.

WHEEL SECUREMENT

AN EIGHT (8) STRAND INSTALLATION OF NO. 8 GAGE BLACK ANNEALED WIRE IS SHOWN, PASSED THRU HOLES IN WHEEL AND RAIL CAR STAKE POCKET TO FORM A COMPLETE LOOP, AND READY TO BE TWISTED TAUT WITH WIRE TWISTER.

DETAILS