NIKE-HERCULES

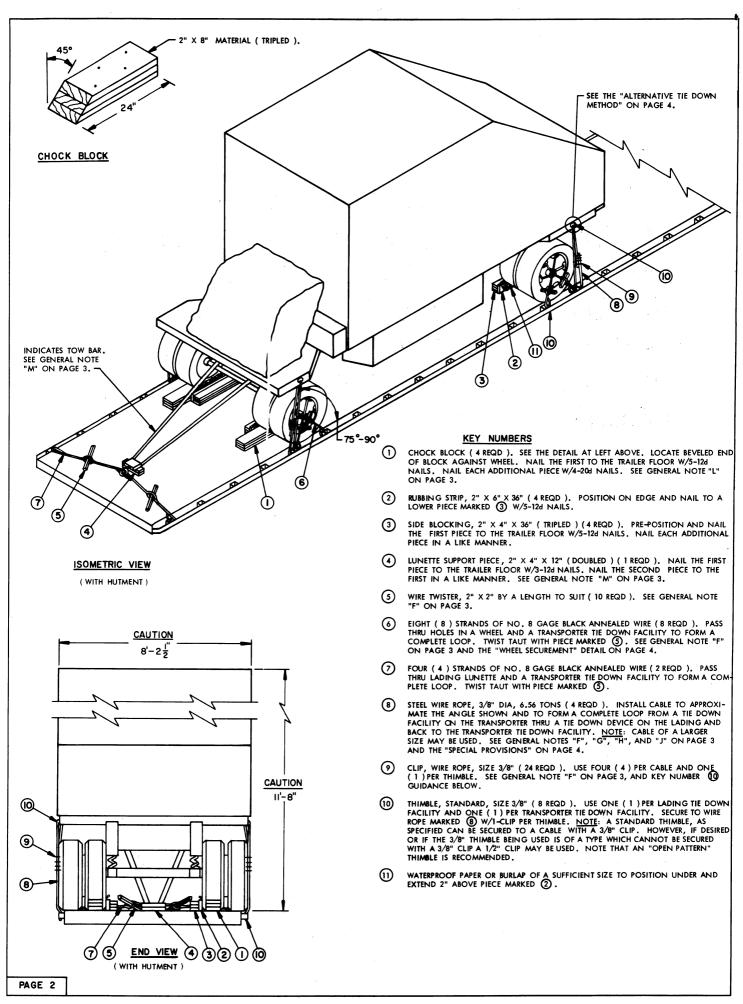
LOADING AND BRACING ON FLAT BED OR "LOW-BOY" TRAILER OF ANTENNA-RECEIVER-TRANSMITTER GROUP; TARGET TRACKING, TARGET RANGING AND MISSILE TRACKING, TRAILER MOUNTED

LOAD AS SHOWN MAY REQUIRE "CLEARANCE"
CONSIDERATION BECAUSE OF EXCESSIVE
LADING SIZE.

THIS DRAWING SUPERSEDES USAMC DRAWINGS 19-48-7418-GSE IINH8 AND 19-48-7424-GSE IINH9.

REVISIONS	DRAFTSMAN	2	D/MW		
	7 7	BOX JOX		11-5P 11-6	
			Gille	IBBILE COMMAND	
	APPROVED BY ORDER OF COMMANDING GENERAL. U. S. ARMY MATERIEL COMMAND US AME AMINO CENTER US AME AMINO CENTER				
	U. S. ARMY MATERIEL COMMAND				
	OCTOBER 1972				
	CLASS	DIVISION	DRAWING	FILE	
	10	48	7577	GSE	
	19		7573	IINH3I	

DO NOT SCALE



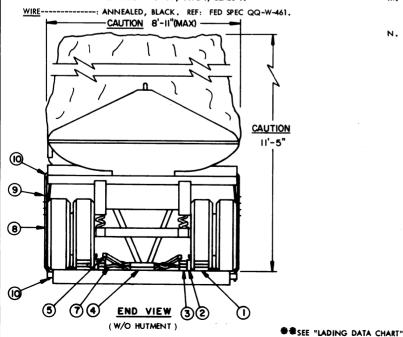
LADING	DATA	CHART	
ANTENNA -	RECEIVER -	TRANSMITTER	- GROUP
W/O HUTMENT	TARGET TRACKING	TARGET RANGING	MISSILE TRACKING
LENGTH *	27'-11-1/2"	27'-11-1/2"	27'-11-1/2"
WIDTH	8'-7"	8'-11"	8'-7"
HEIGHT	11'-5"	11'-5"	11'-5"
GROSS WEIGHT	12,780 LBS	13,160 LBS	12,780 LBS
WITH HUTMENT	\mathbb{X}	\mathbb{X}	$>\!\!<$
LENGTH *	28'-1-1/2"	28'-1-1/2"	28'-1-1/2"
WIDTH	8'-2-1/2"	8'-2-1/2"	8'-2-1/2"
HEIGHT	11'-8"	11'-8"	11'-8"
GROSS WEIGHT	13,930 LBS	14,180 LBS	13,930 LBS

* INCLUDES 80" EXTENDED TOW BAR. SEE GENERAL NOTE "M".

BILL OF MATERIAL				
LUMBER	LINEAR FEET	BOARD FEET		
2" X 2" 2" X 4" 2" X 6" 2" X 8"	15 38 12 24	; 25 2 2		
NAILS	NO. REQD	POUNDS		
12d (3-1/4") 20d (4")	106 32	1-3/4 1-1/4		
ROPE, STEEL WIRE, 3/8" DIA				

MATERIAL SPECIFICATIONS

CLIP -----: "U" BOLT, CROSBY, HEAVY DUTY (OR EQUAL). REF:
FED SPEC FF-C-450, TYPE I, CLASS I.



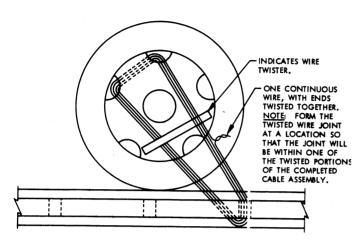
GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AMCR 740-13.
- B. THE LOADS AS SHOWN ARE BASED ON FLAT BED OR "LOW-BOY" TRAILERS 8'-0" WIDE WITH WOOD OR WOOD AND METAL FLOORS. ONLY ONE UNIT OF LADING IS SHOWN; HOWEVER, MULTIPLES OF UNITS, AS SHOWN OR DISSIMILAR IN NATURE, MAY BE LOADED ON A TRAILER. THE NUMBER OF UNITS TO BE LOADED ON A TRAILER WILL BE DEPENDENT ON THE SIZE OF THE TRAILER USED OR THE QUANTITIES OF UNITS TO BE SHIPPED, WITH THE VIEW OF FULL UTILIZATION OF CARRIER EQUIPMENT. CAUTION: THE LOADS AS SHOWN MAY REQUIRE "CLEARANCE" CONSIDERATION BECAUSE OF EXCESSIVE LADING SIZE. SEE NOTE "M" BELOW.
- C. ONLY TRAILERS CAPABLE OF SAFELY TRANSPORTING THE LADING TO DESTINATION WITHOUT DAMAGE WILL BE SELECTED. TRAILERS SELECTED MUST HAVE "SOUND" FLOORS WHICH PROVIDE NAIL RETENTION PROPERTIES EQUAL TO OR BETTER THAN SPECIFIED DUNNAGE LUMBER, AND A SUFFICIENT NUMBER OF TIE DOWN FACILITIES OF A STRENGTH EQUAL TO OR BETTER THAN SPECIFIED LADING TIE DOWN ASCENTIES.
- D. SHIPMENT GROSS WEIGHT, AXLE DISTRIBUTION OF LADING WEIGHT AND OVER-ALL DIMENSIONS MUST MEET STATE LAW REQUIREMENTS.
- E. FOR LADING DATA, SEE THE "LADING DATA CHART" AT LEFT.
- F. REFER TO ORD DWG 19-48-C-ORDJU-588, "WIRE ROPE AND ANNEALED WIRE APPLICATION METHODS FOR SECURING LADING ON RAIL & MOTOR CARRIER EQUIP ", FOR PROPER TIE DOWN APPLICATION, EXCEPT THAT NUTS ON 3/8" CABLE CLIPS WILL BE TIGHTENED TO A TORQUE OF 35 TO 45 FOOT POUNDS. CAUTION: DURING WIRE ROPE INSTALLATION, AVOID CONTACT WITH ALL ELECTRICAL WIRING, VEHICLE CONTROLS AND OTHER APPURTENANCES. METAL FILLERS OR COMPARABLE CUSHIONING MATERIAL MUST BE USED BETWEEN TIE DOWN WIRES AND/OR CABLES AND ALL SHARP EDGES, AND ANTI-CHAFING MATERIAL MUST BE USED BETWEEN CONTACTING TIE DOWN WIRES AND LADING TIRES. ADDITIONALLY, LADING TIRES WILL BE INFLATED TO HIGHWAY OPERATING PRESSURE, AND ALL HAND BRAKES MUST BE "SET" WITH HAND LEVERS WIRE TIED OR BLOCKED.
- G. SEE THE "SPECIAL PROVISIONS" ON PAGE 4 FOR SPECIFICATIONS WHICH MUST BE APPLIED IF CHAINS AND LOAD BINDERS ARE USED.
- H. WIRE ROPE CABLES 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.
- J. CAUTION: IT IS RECOMMENDED THAT CABLE TIE DOWNS BE INSTALLED TO APPROXIMATE THE ANGLE SHOWN; HOWEVER, IF PLACEMENT OF TRANSPORTER TIE DOWN FACILITIES PREVENTS THIS, CARE MUST BE EXERCISED TO ENSURE THAT CABLE TIE DOWNS ON THE SAME SIDE OF THE LADING ARE INSTALLED SO THEIR RETENTION FORCES ACT IN OPPOSITE LONGITUDINAL DIRECTIONS.
- K. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 2" X 4" MATERIAL IS ACTUALLY 1-1/2" THICK BY 3-1/2" WIDE OR 1-5/8" THICK BY 3-5/8" WIDE.
- L. NOTICE: A STAGGERED NAILING PATTERN WILL BE USED WHEN DUNNAGE IS NAILED TO THE FLOOR OF THE TRANSPORTING VEHICLE, OR WHEN LAMINATING DUNNAGE. ADDITIONALLY, THE NAILING PATTERN FOR AN UPPER PIECE OF LAMINATED DUNNAGE WILL BE ADJUSTED AS REQUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH ONTO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.
- M. IF DESIRED, TO REDUCE THE LENGTH OF THE SPACE USED TO SHIP THE DEPICTED ITEM (S), THE TOW BAR MAY BE TURNED 180° TO EXTEND UNDER THE BODY OF THE ITEM AND SECURED IN THE SAME MANNER AS SPECIFIED IN THE LOAD VIEW
- N. CAUTION: DURING TRANSIT, SPRING-BRIDGING LINK RODS MUST BE DISEN-GAGED.

LOAD AS SHOWN

PAGE 3

ABOVE FOR ITEMS COVERED.



WHEEL SECUREMENT

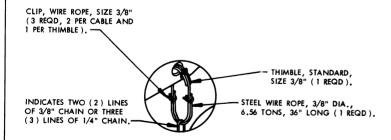
AN EIGHT (8) STRAND INSTALLATION OF NO. 8 GAGE LACK ANNEALED WIRE IS SHOWN, PASSED THRU HOLES IN WHEEL AND TRA LER TIE DOWN FACILITY TO FORM A COMPLETE LOOP, AND READY TO B: TWISTED TAUT WITH WIRE TWISTER.

SPECIAL PROVISIONS:

LADING MAY BE SECURED BY CARRIER-OWNED CHAINS AND LOAD BINDERS IN LIEU OF SPECIFIED STRANDED ANNEALED WIRE AND/OR WIRE ROPE CABLE TIE DOWN DUNNAGE MATERIALS, PROVIDING THE FOLLOWING CONDITIONS ARE MET:

- 1. ONLY CHAINS AND LOAD BINDERS OF GOOD QUALITY SHOULD BE USED.

 CAUTION: EXTREME CARE MUST BE USED IN TENSIONING CHAINS TO PREVENT DAMAGE TO THE LADING.
- 2. TWO (2) LINES OF 3/8" CHAIN, OR THREE (3) LINES OF 1/4" CHAIN MAY BE SUBSTITUTED FOR EACH WIRE ROPE CABLE, PIECE MARKED (8) ON PAGE 2. CHAINS SHALL BE INSTALLED AT THE SAME LOCATIONS SHOWN FOR WIRE ROPE CABLES AND IN THE SAME MANNER AS DIRECTED IN GENERAL NOTE "J" ON PAGE 3. IF A TIE DOWN FACILITY WILL NOT ACCOMMODATE THE CHAINS, SEE THE "ALTERNATIVE TIE DOWN METHOD" ON THIS PAGE FOR GUIDANCE.
- 3. FOR SECURING THE LADING LUNETTE, IN LIEU OF THE STRANDED WIRE TIE DOWNS, PIECE MARKED (2) ON PAGE 2, TWO (2) LINES OF 1/4" CHAIN MAY BE SUBSTITUTED.
- 4. FOR WHEEL SECUREMENT, ONE (1) LINE OF 1/4" CHAIN MAY BE USED IN LIEU OF TWO (2) STRANDED WIRE TIE DOWNS MARKED (6) ON PAGE 2. THE CHAIN SHALL BE INSTALLED TO EXTEND FROM A FORWARD TIE DOWN FACILITY AT THE SIDE OF THE TRANSPORTER, THRU AN UPPER LIGHTENING HOLE OF THE WHEEL, BACK THRU AN ADJACENT LIGHTENING HOLE AND THEN DOWN TO A REARWARD TIE DOWN FACILITY ON THE SAME SIDE OF THE TRANSPORTER.
- 5. IF DESIRED, CHAINS OF A LARGER SIZE THAN SPECIFIED ABOVE MAY BE USED.
- 6. BEFORE AND DURING INSTALLATION, THE CHAINS AND LOAD BINDERS SHALL BE INSPECTED FOR BENT HOOKS, STRETCH, GOUGES, BENT LINKS, WEAR AND ANY OTHER NOTICEABLE DEFECTS. ANY DEFICIENCY SHALL BE CAUSE FOR REJECTION OF A CHAIN OR LOAD BINDER. CHAINS MUST NOT BE TWISTED DURING INSTALLA-TION.
- THE TENSIONING DEVICE OF EACH LOAD BINDER MUST BE SAFETY-WIRE TIED TO PREVENT ACCIDENTAL OPENING OR LOOSENING IN TRANSIT.
- ANTI-CHAFING MATERIAL MUST BE PLACED AND SECURED BETWEEN CHAINS AND LADING AT ALL POINTS OF CONTACT, EXCEPT AT DEFINITIVE TIE DOWN POINTS.



ALTERNATIVE TIE DOWN METHOD

THIS VIEW DEPICTS A METHOD WHICH MAY BE USED WHEN THE LADING TIE DOWN FACILITY, THROUGH WHICH A CHAIN TIE DOWN IS TO BE THREADED, IS TOO SMALL TO ACCOMODATE THE CHAIN. IF DESIRED, OR IF SPECIFIED CABLE IS NOT AVAILABLE, A SHACKLE OF SUITABLE SIZE TO RECEIVE A CHAIN TIE DOWN, MAY BE USED IN LIEU OF THE CABLE METHOD SHOWN ABOVE. CAUTION: EXTREME CARE MUST BE USED IN TENSIONING CHAINS TO PREVENT DAMAGE TO THE LADING.