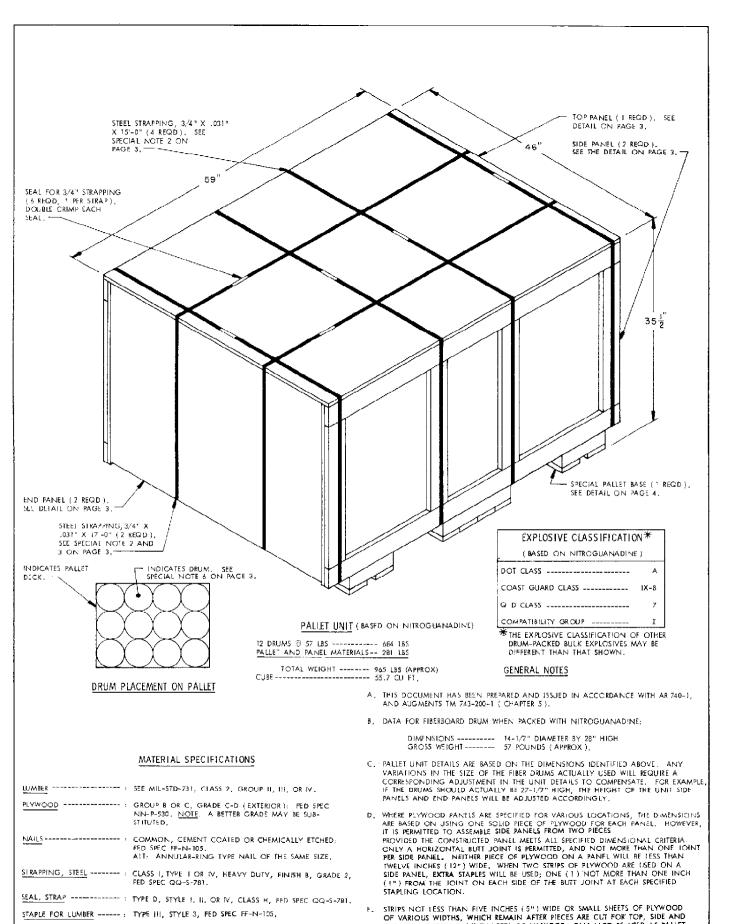
UNITIZATION PROCEDURES FOR BULK EXPLOSIVES WHEN PACKAGED IN A 14-1/2" DIAMETER BY 28" HIGH FIBERBOARD DRUM, OVERPACKED TWELVE PER SPECIAL PALLET UNIT (59"L X 46"W X 35-1/2"H)

THE PALLET UNIT DATA DISPLAYED HEREIN IS BASED ON DRUM-PACKED NITROGUANADINE. HOWEVER, THE SPECIFIED UNITIZATION PROCEDURES ARE ALSO APPLICABLE TO OTHER DRUM-PACKED BULK EXPLOSIVES WHICH ARE PACKED IN THE SAME SIZE OR NEARLY THE SAME SIZE FIBERBOARD DRUM, PROVIDING THE GROSS WEIGHT OF A COMPLETE PALLET UNIT DOES NOT EXCEED 2,200 POUNDS. SIZE ADJUSTMENTS TO THE SPECIAL PALLET UNIT WILL BE MADE DURING FABRICATION AS REQUIRED TO COMPENSATE FOR DRUMS THAT VARY SLIGHTLY IN SIZE FROM THE DESIGNATED DIMENSIONS OF 14-1/2" AND 28". THE SPECIFIED PROCEDURES ARE APPLICABLE TO DRUMS WHICH HAVE DIAMETERS FROM 13" TO 15" AND HEIGHTS OF NOT MORE THAN 46". DRUMS WHICH ARE 15-1/2" OR LESS IN HEIGHT CAN BE IRIPLE-TIERED WITHIN A PALLET UNIT AND THOSE THAT ARE NOT MORE THAN 23" HIGH CAN BE DOUBLE-TIERED.

REVISIO	cherry	DIV	I/I/W)		
	\$B\$ (	1BC Ju	المخبرت		
		rv. bu		MANGENT COMMAND	
	APPROVED U. S. ARM	MATERIEL COM	mari	ERAL. MIC AMMO CENTER	
	U.S.	ARMY M	ATERIEL C	OMMAND	
		SEPTEMBER 1975			
	CLASS	BIVISION	DRAWING	FILE	
	19	48	4131	20PN 1003	

DO NOT SCALE

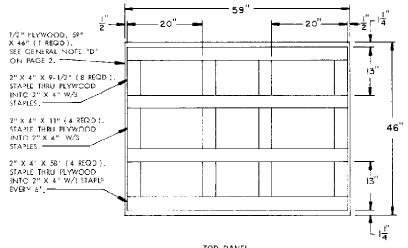


FND PANELS FROM PARENT SHEETS OF PLYWOOD, CAN ALSO BE USED AS PALLET (CONTINUED AT TOP OF PAGE 3.)

PAGE 2

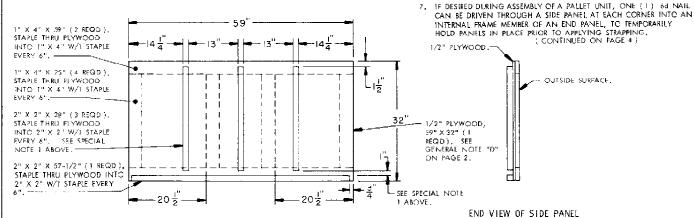
#### (GENERAL NOTES CONTINUED FROM PAGE 2)

DECKING IN LIEU OF THE SPECIFIED DIMENSIONAL LUMBER. STAPLES AS SPECIFIED HEREIN CAN BE USED ON A ONE-FOR-ONE BASIS FOR FASTENING PLYWOOD DECKING, IN LIEU OF THE SPECIFIED & NAILS, IF DESIRED. PIECES OF PLYWOOD USED FOR DECKING MUST BE 43-1/2" LONG; SPLICING IS NOT PERMITTED. SEF SPECIAL NOTE I ON THIS PAGE FOR ADDITIONAL GUIDANCE.



# TOP PANEL

(BOTTOM OF PANEL SHOWN)



SPECIAL NOTES:

REPLACED

1. IF DESIRED, 1/2" PLYWOOD MAY BE USED IN LIEU OF 1" X 6" BOARDS FOR THE TOP DECK OF THE PALLET. ADDITIONALLY, IT THIS ALTERNATIVE IS USED, THE FOLLOWING CHANGES IN THE "SIDE PANEL" AND "END PANEL" DETAILS WILL BE REQUIRED.

INCREASE THE LENGTH OF THE INTERIOR VERTICAL PIECES TO

THE STEEL STRAPPING SPECIFIED IN THE PALLET UNIT DETAIL ON PAGE 7 IS 3/4" WIDE BY .031" THICK, FOR AN ALTERNATIVE, 3/4" WIDE BY .035" THICK STEEL STRAPPING MAY ALSO BE USED.

DIRECTION OF THE 59" DIMENSION, MUST BE ALIGNED SO AS TO

BE POSITIONED ON THE INTERMEDIATE STRINGERS, ALL STRAPPING MUST BE STRAIGHT WITHIN TWO INCHES (2") ON ANY SURFACE OF THE UNITIZED LOAD; I.E., TOP, BOTTOM, SIDES OR ENDS THAT IT

ENCOMPASSES. EACH STRAP WILL BE TENSIONED SUFFICIENTLY TO SLIGHTLY CRUSH THE EDGES OF THE PALLET UNIT.

ALLOWED, ALL DIMENSIONAL LUMBER MEMBERS IN A SET, SUCH AS

4. A MANUFACTURING TOLERANCE OF + OR - 1/4" IS ALLOWED ON ALL DIMENSIONS. ALTHOUGH A + OR - 1/4" TOLERANCE IS

THE VERTICAL 1" X 4" CLEATS ON EXTERIOR OF A SIDE PANEL, MUST BE WITHIN 1/8" OF THE SAME LENGTH.

5. DIMENSIONAL 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. 6. IF LESS THAN 12 DRUMS ARE LOADED INTO A PALLET UNIT, A BOX-TYPE ASSEMBLY CONSTRUCTED FROM DIMENSIONAL LUMBER AND PLYWOOD MUST BE INSTALLED TO OCCUPY THE VOID CREATED BY

THE ELIMINATION OF A DRUM OR DRUMS. THE SPACE-OCCUPYING ASSEMBLY MUST BE AS STRONG OR STRONGER THAN THE DRUM( \$ ).

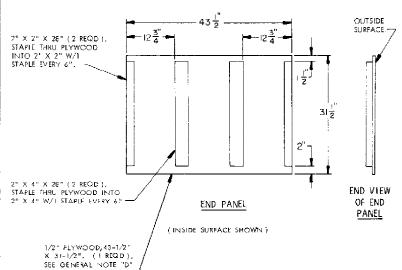
28-1/4" AND REDUCE THE CLEARANCE DIMENSION AT THE

BOTTOM OF EACH ASSEMBLY BY A CORRESPONDING 1/4"

3. THE STEEL STRAPPING ENCIRCLING THE PALLET LINIT IN THE

### SIDE PANEL

( CLEATS ON OUTSIDE SURFACE ARE SHOWN IN DASHED LINES. )

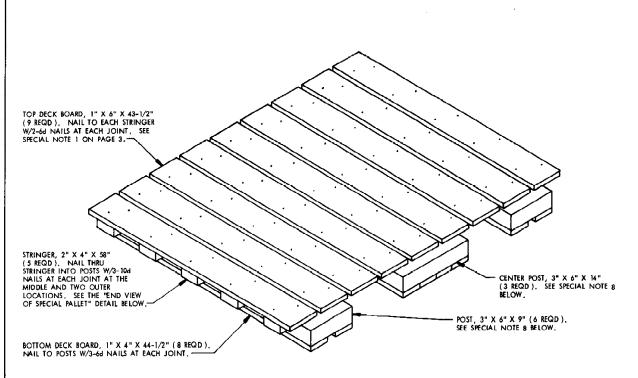


ON PAGE 2

		T	
III MBEH	LINEAR FEET	B CARD + LE	
1" X 4"	66	22	
1" X 6"	33	17	
7" X 2"	34	12	
2" X 4 1	64	43	
3" X 6'	8	12	
NAILS	NO. RLQD	POUNDS	
6d (2")	142	1	
10a (31)	27	1,	
YWOOD, 1/2"	65 SQ , FT ,	REQ.D 90 1 E	
CAPPING, STEEL, 3/4"	" X ,031 95 FT, REQ D	1 7 1,8	
41S, STRÁPPING 3/41	" 6 FA	1/4 16	
A STOCK AND	226 EA	7 LB	

¥ STAPLES TO BE USED SHOULD BE OF A TYPE USED IN PNEUMATIC OR MECHANICAL CLUS FOR FASTENING WOOD, LEG ENGTH WILL BE NO INCH (1") AND THE CROWN WIDTH WILL BE 1/2" MINIMUM TO 1" MAXIMUM. THE WIRE GAGE OF THE STAPLE SHOULD BE SIXTEEN (16) GAGE OR HEAVIER.

PAGE 3



# SPECIAL PALLET

### SPECIAL NOTEL (CONTINUED FROM PAGE 3)

8. THE 3" X 6" POSTS FOR THE SPECIAL PALLET SHOWN ABOVE MAY BE FABRICATED BY LAMINATING APPROPRIATE LENGTH PIECES OF 1" X 6" AND 2" X 6" W/3-6d NAILS AT EACH POST. IN LIEU OF LAMINATING AN ALTERNATIVE POST W/64 NAILS, DURING PALLET ASSEMBLY NAIL THRU THE BOTTOM DECK BOARDS AND A 1" X 6" PIECE INTO A 2" X 6" PIECE W/3-10d NAILS AT EACH JOINT. THE 3-0d NAILS WILL REPLACE THE 3-6d NAILS THAT ARE SPECIFIED AS BOTTOM DECK BOARD FASTENERS. ALSO, 4" X 6" POSTS CAN BE SUBSTITUTED FOR THE SPECIFIED 3" X 6" POSTS IF 3" X 6" MATERIAL IS NOT READILY AVAILABLE, OR IF DESIRED.

