

APPROVED BY
BUREAU OF EXPLOSIVES

J. M. Lane

DATE 11/4/2000

APPENDIX 50

LOADING AND BRACING PROCEDURES FOR STRATEGIC CONFIGURED LOAD (SCL) ON CONTAINER ROLL IN/OUT PLATFORM (CROP)

SCL #50 - 155MM HE M795

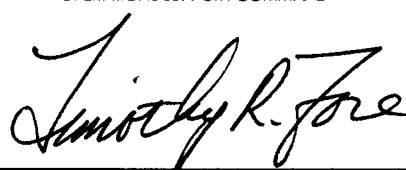

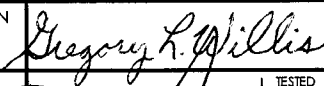
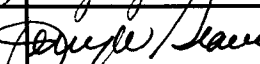
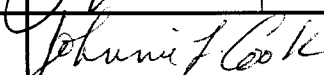
INDEX

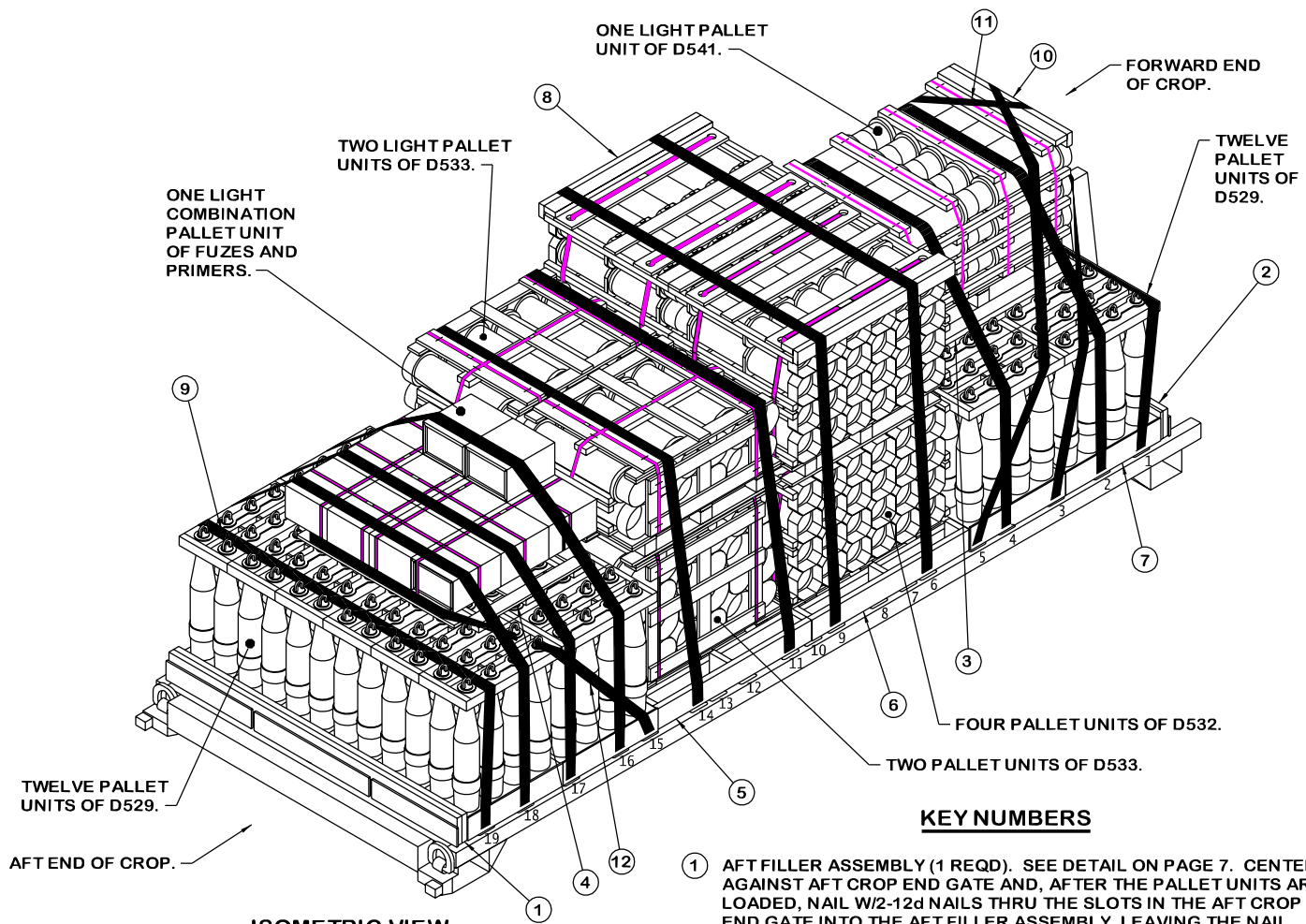
<u>ITEM</u>	<u>PAGE(S)</u>
TYPICAL LOADING PROCEDURES - - - - -	2
GENERAL NOTES AND SEQUENTIAL LOADING PROCEDURES - - - - -	3-4
PALLET UNIT DETAILS - - - - -	4-6
DETAILS - - - - -	7-9

NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC CROP OUTLOADING PROCEDURES DRAWING 19-48-4905-CA17Q6.

- LOADING AND BRACING SPECIFICATIONS SET FORTH WITHIN THIS DRAWING ARE APPLICABLE TO LOADS THAT ARE TO BE SHIPPED BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC) RAIL CARRIER SERVICE. THESE SPECIFICATIONS MAY ALSO BE USED FOR LOADS THAT ARE TO BE MOVED BY MOTOR OR WATER CARRIERS.

U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, U.S. ARMY OPERATIONS SUPPORT COMMAND 	ENGINEER	BASIC	LAURA FIEFFER		DO NOT SCALE			
		REV.			WEBSITE: HTTP://WWW.DAC.ARMY.MIL			
	TECHNICIAN	BASIC			OCTOBER 2000			
	REV.							
	DRAFTSMAN	BASIC						
	REV.							
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND 	TRANSPORTATION ENGINEERING DIVISION			TESTED	CLASS	DIVISION	DRAWING	FILE
	VALIDATION ENGINEERING DIVISION				19	48	4905/ 50	CA17Q6
	ENGINEERING DIRECTORATE							
U.S. ARMY DEFENSE AMMUNITION CENTER	PROJECT <u>CAP-TV 6/50-00</u>							



ISOMETRIC VIEW

(KEY NUMBERS CONTINUED)

- ⑦ SIDE BLOCKING ASSEMBLY C (8 REQD). SEE THE DETAIL ON PAGE 10. INSTALL ONE ADJACENT TO EACH OUTER D529 PALLET UNIT. SEE GENERAL NOTE "K" ON PAGE 3.
- ⑧ STRAPPING BOARD ASSEMBLY A (2 REQD). SEE THE DETAIL ON PAGE 10. INSTALL ON THE EDGES OF THE D532 PALLET UNITS.
- ⑨ HOLD-DOWN STRAP, 3-INCH WIDE WEB STRAP TIEDOWN ASSEMBLY FOR CROP (11 REQD). INSTALL EACH HOLD-DOWN STRAP TO EXTEND FROM THE DESIGNATED TIEDOWN ANCHOR ON ONE SIDE OF CROP, OVER THE TOP OF THE PALLET UNITS, TO THE CORRESPONDING TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE CROP. ALIGN SCUFF SLEEVES OVER ALL SHARP EDGES AND FIRMLY TENSION STRAP. SEE GENERAL NOTE "H" ON PAGE 3.
- ⑩ STRAPPING BOARD ASSEMBLY B (2 REQD). SEE THE DETAIL ON PAGE 10. INSTALL ON THE FORWARD EDGE OF THE LIGHT D541 PALLET UNIT.
- ⑪ FORWARD END RESTRAINT STRAP, 3-INCH WIDE WEB STRAP TIEDOWN ASSEMBLY FOR CROP (2 REQD). INSTALL THE STRAP FROM THE FIFTH TIEDOWN ANCHOR ON ONE SIDE OF THE CROP (ONE ON EACH SIDE), OVER THE D529 AND LIGHT D541 PALLET UNITS, AND STRAPPING BOARD ASSEMBLY "B", BACK DOWN TO THE THIRD TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE CROP. DO NOT INSTALL OVER THE HOLD-DOWN STRAP ATTACHED TO THE SECOND TIEDOWN ANCHOR, THREAD BEHIND THIS STRAP. ALIGN SCUFF SLEEVES OVER ALL SHARP EDGES AND FIRMLY TENSION STRAP. SEE GENERAL NOTE "H" ON PAGE 3.
- ⑫ AFT END RESTRAINT STRAP, 3-INCH WIDE WEB STRAP TIEDOWN ASSEMBLY FOR CROP (1 REQD). INSTALL THE STRAP FROM THE FIFTEENTH TIEDOWN ANCHOR ON ONE SIDE OF THE CROP, OVER THE D529 PALLET UNITS AND AROUND THE PALLET POSTS OF THE LIGHT FUZE/PRIMER COMBINATION PALLET UNIT, AND BACK DOWN TO THE FIFTEENTH TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE CROP. DO NOT INSTALL OVER THE HOLD-DOWN STRAP ATTACHED TO THE EIGHTEENTH TIEDOWN ANCHOR, THREAD BEHIND THIS STRAP. ALIGN SCUFF SLEEVES OVER ALL SHARP EDGES AND FIRMLY TENSION STRAP. SEE GENERAL NOTE "H" ON PAGE 3.

KEY NUMBERS

- ① AFT FILLER ASSEMBLY (1 REQD). SEE DETAIL ON PAGE 7. CENTER AGAINST AFT CROP END GATE AND, AFTER THE PALLET UNITS ARE LOADED, NAIL W/2-12d NAILS THRU THE SLOTS IN THE AFT CROP END GATE INTO THE AFT FILLER ASSEMBLY, LEAVING THE NAIL HEADS PROTRUDING THRU THE SLOTS TO PROVIDE LATERAL RESTRAINT.
- ② FORWARD FILLER, 1" OR 2" X 8" X 7'-4" (AS REQD). LAMINATE EACH PIECE TO THE PREVIOUS PIECE W/8 NAILS OF A SUITABLE SIZE (6d NAILS FOR 1" THICK MATERIAL). CENTER AGAINST FORWARD CROP END GATE AND, AFTER THE PALLET UNITS ARE LOADED, NAIL W/2-12d NAILS THRU THE HOLES IN THE FORWARD CROP END GATE INTO THE FORWARD FILLER PIECES, LEAVING THE NAIL HEADS PROTRUDING THRU THE HOLES TO PROVIDE LATERAL AND VERTICAL RESTRAINT.
- ③ PALLET SUPPORT ASSEMBLY A (1 REQD). SEE DETAIL ON PAGE 8. POSITION THE ASSEMBLY ON TOP OF THE FORWARD D529 PALLET UNITS SO THAT ASSEMBLY LATERAL PIECES ARE CROSSWISE ON THE LOAD AND FIT BETWEEN THE LIFTING RINGS OF THE D529 PROJECTILES. CENTER THE ASSEMBLY LATERALLY ON THE D529 PALLET UNITS AND POSITION SO THAT THE LIGHT D541 PALLET UNIT WILL BE TIGHT AGAINST THE ADJACENT D532 PALLET UNITS.
- ④ PALLET SUPPORT ASSEMBLY B (1 REQD). SEE DETAIL ON PAGE 8. POSITION THE ASSEMBLY ON TOP OF THE AFT D529 PALLET UNITS SO THAT ASSEMBLY LONGITUDINAL PIECES ARE CROSSWISE ON THE LOAD AND FIT BETWEEN THE LIFTING RINGS OF THE D529 PROJECTILES. CENTER THE ASSEMBLY LATERALLY ON THE D529 PALLET UNITS AND POSITION SO THAT THE LIGHT FUZE/PRIMER COMBINATION PALLET UNIT WILL BE TIGHT AGAINST THE ADJACENT LIGHT D533 PALLET UNITS. SEE GENERAL NOTE "J" ON PAGE 3.
- ⑤ SIDE BLOCKING ASSEMBLY A (2 REQD). SEE THE DETAIL ON PAGE 9. INSTALL ONE ON EACH SIDE OF THE CROP ADJACENT TO THE D533 PALLET UNITS. AFTER THE HOLD-DOWN STRAPS ARE INSTALLED, NAIL THROUGH THE STRAP ATTACHMENT SLOTS OF TWO HOLD-DOWN STRAPS (ONE AT EACH END OF THE ASSEMBLY) INTO SIDE BLOCKING W/1-10d PARTIALLY DRIVEN NAIL AND BEND OVER SIDE OF HOOK.
- ⑥ SIDE BLOCKING ASSEMBLY B (2 REQD). SEE THE DETAIL ON PAGE 10. INSTALL ONE ON EACH SIDE OF THE CROP ADJACENT TO THE D532 PALLET UNITS. AFTER THE HOLD-DOWN STRAPS ARE INSTALLED, NAIL THROUGH THE STRAP ATTACHMENT SLOTS OF TWO HOLD-DOWN STRAPS (ONE AT EACH END OF THE ASSEMBLY) INTO SIDE BLOCKING W/1-10d PARTIALLY DRIVEN NAIL AND BEND OVER SIDE OF HOOK.

RECOMMENDED SEQUENTIAL PROCEDURES

1. PREFABRICATE THE AFT FILLER ASSEMBLY, ONE PALLET SUPPORT ASSEMBLY "A", ONE PALLET SUPPORT ASSEMBLY "B", TWO SIDE BLOCKING ASSEMBLIES "A", TWO SIDE BLOCKING ASSEMBLIES "B", EIGHT SIDE BLOCKING ASSEMBLIES "C", TWO STRAPPING BOARD ASSEMBLIES "A", AND ONE STRAPPING BOARD ASSEMBLY "B". ASSEMBLE THE FUZE/PRIMER COMBINATION PALLET UNIT.
2. INSTALL THE AFT FILLER ASSEMBLY.
3. LOAD TWO ROWS OF SIX PALLET UNITS OF D529 AGAINST THE AFT END FILLER ASSEMBLY, CENTERING THE ROWS Laterally ON THE CROP.
4. LOAD ONE ROW OF TWO PALLET UNITS OF D533 AGAINST THE D529 PALLET UNITS, CENTERING THE ROW Laterally ON THE CROP.
5. LOAD THE TWO LIGHT D533 PALLET UNITS ON TOP ON TOP OF THE FULL D533 PALLET UNITS.
6. LOAD ONE ROW (TWO LAYERS) OF FOUR PALLET UNITS OF D532 AGAINST THE D533 PALLET UNITS, CENTERING THE ROW Laterally ON THE CROP.
7. LOAD TWO ROWS OF SIX PALLET UNITS OF D529 AGAINST THE D532 PALLET UNITS, CENTERING THE ROWS Laterally ON THE CROP.
8. INSTALL THE FORWARD FILLER PIECES.
9. INSTALL THE PALLET SUPPORT ASSEMBLY "A" ON TOP OF THE FORWARD D529 PALLET UNITS AS INSTRUCTED IN KEY NUMBER ③.
10. LOAD ONE LIGHT D541 PALLET UNIT ON TOP OF THE PALLET SUPPORT ASSEMBLY "A", AGAINST THE D532 PALLET UNITS, ALIGNING THE PALLET SKIDS WITH THE PALLET SUPPORT ASSEMBLY LONGITUDINAL PIECES.
11. INSTALL ONE PALLET SUPPORT ASSEMBLY "B" ON TOP OF THE AFT D529 PALLET UNITS AS INSTRUCTED IN KEY NUMBER ④.
12. LOAD ONE LIGHT FUZE/PRIMER COMBINATION PALLET UNIT ON TOP OF THE PALLET SUPPORT ASSEMBLY "B", AGAINST THE LIGHT D533 PALLET UNITS, ALIGNING THE PALLET SKIDS WITH THE PALLET SUPPORT ASSEMBLY LONGITUDINAL PIECES. SEE GENERAL NOTE "F" AT RIGHT.
13. INSTALL THE TWO SIDE BLOCKING ASSEMBLIES "A", ONE ON EITHER SIDE OF THE D533 PALLET UNITS.
14. INSTALL THE TWO SIDE BLOCKING ASSEMBLIES "B", ONE ON EITHER SIDE OF THE D532 PALLET UNITS.
15. INSTALL THE EIGHT SIDE BLOCKING ASSEMBLIES "C", ONE ADJACENT TO EACH D529 PALLET UNIT ON AN OUTBOARD EDGE OF THE CROP.
16. INSTALL THE TWO STRAPPING BOARD ASSEMBLIES "A" ON THE D532 PALLET UNITS.
17. INSTALL 11 WEB STRAP TIEDOWN ASSEMBLIES TO EXTEND FROM A TIEDOWN ANCHOR ON ONE SIDE OF THE CROP, OVER THE TOP OF PALLET UNITS, TO THE CORRESPONDING TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE CROP.

(CONTINUED ON PAGE 4)

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	6	2
1" X 6"	12	6
1" X 8"	8	5
2" X 3" (ACTUAL)	9	6
2" X 4"	72	48
2" X 6"	21	21
2" X 8"	22	30
NAILS	NO. REQD	POUNDS
6d (2")	38	1/4
8d (2-1/2")	72	1
10d (3")	95	1-1/2
12d (3-1/4")	4	NIL
PLYWOOD, 3/8" - - - 9.67 SQ FT REQD - - - 9.97 LBS		

GENERAL NOTES

- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC LOADING PROCEDURES DRAWING 19-48-4905-CA17Q6. TO PRODUCE AN APPROVED LOAD, ALL PERTINENT PROCEDURES, SPECIFICATIONS AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PROCEDURES DELINEATED IN THIS APPENDIX. ANY EXCEPTIONS TO THE BASIC PROCEDURES ARE SPECIFIED IN THIS APPENDIX.
- B. THE OUTLOADING PROCEDURES DEPICTED IN THIS DRAWING ARE APPLICABLE TO LOADS OF SCL #50. SEE PAGES 4 THRU 6 FOR DETAILS OF THE PALLET UNITS. AN M3A1 (HYUNDAI) CROP IS SHOWN AS TYPICAL. OTHER MANUFACTURER'S CROPS CAN BE USED FOR THE LOAD SHOWN ON PAGE 2. THE SEQUENTIAL LOADING PROCEDURES DEPICTED AT LEFT DESCRIBE THE SEQUENCE USED TO LOAD AN M3A1 CROP. FOR AN M3 (SUMMA) CROP, SEQUENTIAL LOADING PROCEDURES 2 THROUGH 8 MUST BE REVERSED. ACTUAL CROP CONFIGURATION WILL DETERMINE WHETHER THE SEQUENTIAL LOADING STARTS AT THE AFT OR THE FORWARD END OF THE CROP.
- C. THE LOADING PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR OUTLOADING SIMILAR SCL LOADS WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN WHAT IS SHOWN ON PAGE 4, PROVIDED THE OVERALL PALLET UNIT DIMENSIONS DO NOT VARY FROM WHAT IS DELINEATED HEREIN.
- D. LIGHT PALLET UNITS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE GUIDELINES DELINEATED IN THE BASIC UNITIZATION PROCEDURES DRAWING APPLICABLE TO THAT PALLET UNIT.
- E. DIMENSIONS, CUBE AND WEIGHT OF THE PALLET UNITS WILL VARY SLIGHTLY DEPENDING UPON THE ACTUAL DIMENSIONS OF THE BOXES AND THE WEIGHT OF THE SPECIFIC ITEM BEING UNITIZED.
- F. ALTERNATE NSN/DODIC COMBINATIONS ARE SHOWN IN THE CHART ON PAGE 4. THESE ALTERNATES MAY BE SUBSTITUTED FOR SOME OR ALL THE DEPICTED NSN/DODICS IF NECESSARY DUE TO THE ITEMS OR QUANTITIES ON HAND.
- G. DIMENSIONS GIVEN FOR DUNNAGE ASSEMBLIES WILL BE FIELD CHECKED PRIOR TO THEIR ASSEMBLY. PALLET UNITS MUST FIT SNUGLY AGAINST THE DUNNAGE ASSEMBLIES. THIS GUIDANCE MUST BE APPLIED PRIOR TO BEGINNING AN OUTLOADING OPERATION. ALSO, DUE TO VARIATION OF PALLET UNIT DIMENSIONS, ADJUSTMENTS MAY BE REQUIRED AS TO THE LOCATION OF CERTAIN PIECES ON DUNNAGE ASSEMBLIES.
- H. ALL WEB STRAP TIEDOWN ASSEMBLIES MUST HAVE THE EXCESS LENGTH OF THE STRAP SECURED. ROLL UP AND BUNDLE THE EXCESS LENGTH OF WEB STRAP, SECURING WITH CABLE TIES. SEE THE "STRAP END SECUREMENT" DETAIL AND GENERAL NOTE "K.12" IN THE BASIC PROCEDURE DRAWING 19-48-4905-CA17Q6.
- J. THE ALTERNATE PALLET SUPPORT ASSEMBLY "B" WILL BE USED IN PLACE OF THE PALLET SUPPORT ASSEMBLY "B" WHEN LOADING THE ALTERNATE PROJECTILE PALLET UNIT, 1320-01-086-0285-D529 (WOODEN PALLET). SEE THE DETAIL ON PAGE 9.
- K. NOTE: THE SIDE FILL ASSEMBLIES "C" ARE ONLY REQUIRED WHEN LOADING PROJECTILES ON THE METAL PALLET (1320-01-457-4059-D529). SIDE FILL ASSEMBLIES ARE NOT REQUIRED FOR THE PROJECTILES WHEN LOADING THE WOODEN PALLET (1320-01-086-0285-D529). SEE THE DETAIL ON PAGE 10.
- L. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454 KG.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
D529 PALLET UNIT - - - - -	24 - - - - -	21,360 LBS*
D532 PALLET UNIT - - - - -	4 - - - - -	5,480 LBS
D533 PALLET UNIT - - - - -	2 - - - - -	2,320 LBS
LIGHT D533 PALLET UNIT - - - - -	2 - - - - -	1,242 LBS
LIGHT D541 PALLET UNIT - - - - -	1 - - - - -	1,073 LBS
COMBO FUZE/PRIMER PLT UNIT - - - - -	1 - - - - -	696 LBS
DUNNAGE - - - - -	- - - - -	240 LBS
CROP - - - - -	- - - - -	3,800 LBS
TOTAL WEIGHT - - - - -		36,211 LBS (APPROX)

*WEIGHT SHOWN IS FOR THE 1320-01-457-4059-D529.

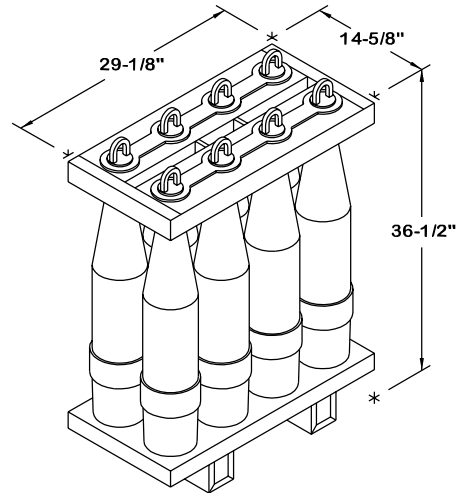
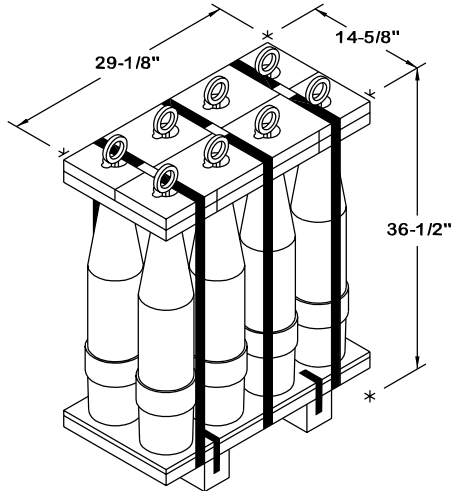
SCL #50 COMPOSITION CHART

DODIC	NSN	NOMENCLATURE	UNIT DWG	REQD	UNITS REQD	HC
D529 *	1320-01-457-4059	PROJ, 155MM HE M795 (METAL PALLET)	12914619	192	24 PALLETS	1. 1D
D532	1320-01-202-8938	CHG, PROPELLING 155MM RB M203A1	4042A/22	96	4 PALLETS	1. 3C
D533	1320-01-093-6856	CHG, PROPELLING 155MM RB M119A2 W/O PRIMER	4042A/9	72	2 PALLETS & 2 LIGHT PLTS	1. 3C
D541	1320-00-935-1923	CHG, PROPELLING 155MM WB M4A2	4042A/2	30	1 LIGHT PLT	1. 3C
N290 ^	1390-01-283-6532	FUZE, ELECTRONIC TIME W/BOOSTER M767	4116/156S	112	7 BOXES	1. 2D
N340 ^	1390-01-132-7481	FUZE, PD W/O BOOSTER M739A1	4116/156	48	3 BOXES	1. 2D
N464 ^	1390-01-202-1710	FUZE, PROXIMITY W/BOOSTER M732	4116/156G	48	3 BOXES	1. 2D
N523	1390-00-892-4202	PRIMER, PERCUSSION M82	4116/158E	200	1 BOX	1. 4S

NOTE: THE DODICS LISTED BELOW MAY BE USED AS ALTERNATES FOR THE DODICS WITH MATCHING SYMBOLS SHOWN ABOVE IF THE QUANTITY OF THE DODICS SHOWN ABOVE IS INSUFFICIENT.

D529 *	1320-01-086-0285	PROJ, 155MM HE M795 (WOODEN PALLET)	9329574			1. 1D
--------	------------------	-------------------------------------	---------	--	--	-------

^ REPLACE WITH 1390-NA08 MOFA FUZE WHEN AVAILABLE.



1320-01-086-0285-D529 PALLET UNIT DETAIL

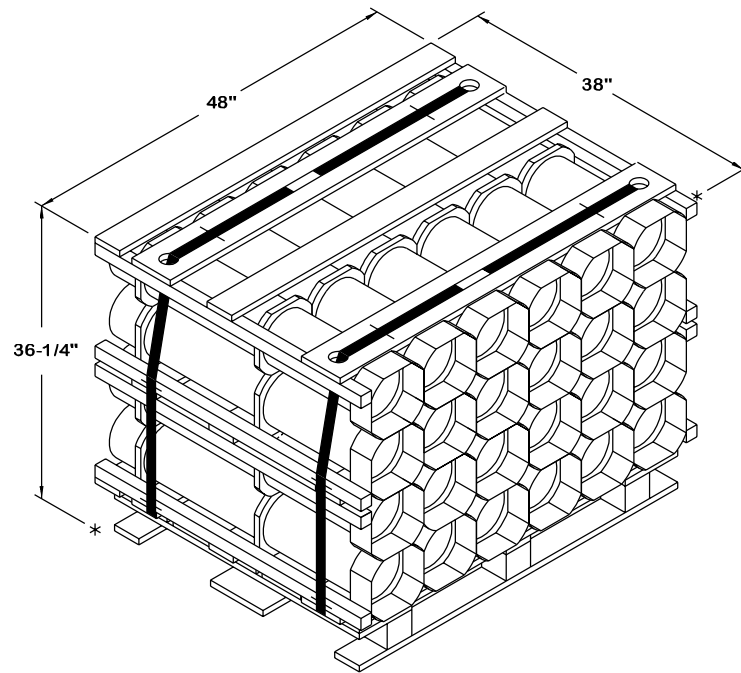
8 155MM CTG AT 103-1/8 LBS	-----	825 LBS (APPROX)
DUNNAGE AND PALLET	-----	40 LBS
<hr/>		
TOTAL WEIGHT	-----	865 LBS (APPROX)
CUBE	-----	9.0 CU FT (APPROX)

1320-01-457-0459-D529 PALLET UNIT DETAIL

8 155MM CTG AT 103-1/8 LBS	-----	825 LBS (APPROX)
DUNNAGE AND PALLET	-----	65 LBS
<hr/>		
TOTAL WEIGHT	-----	890 LBS (APPROX)
CUBE	-----	9.0 CU FT (APPROX)

SEQUENTIAL PROCEDURES CONTINUED FROM PAGE 3

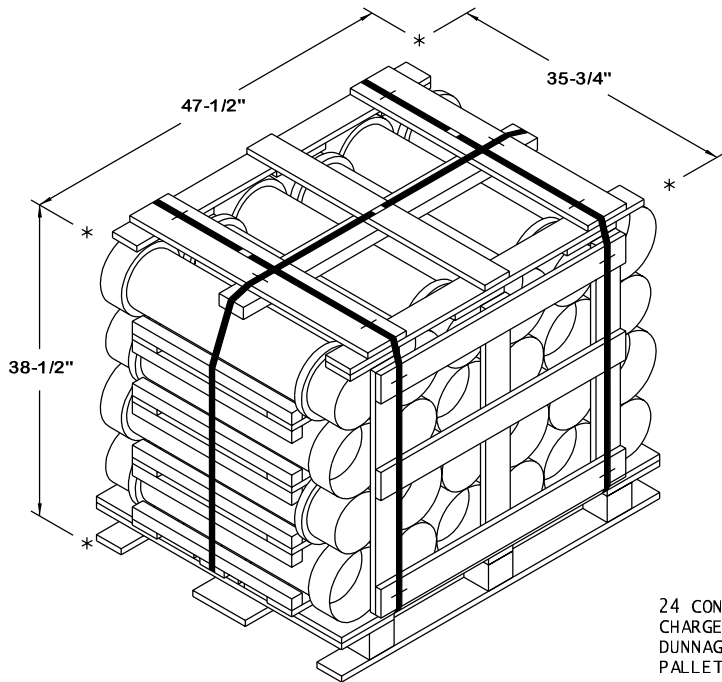
18. INSTALL THE TWO WEB STRAP TIEDOWN ASSEMBLIES ATTACHED TO THE FIFTH AND THIRD TIEDOWN ANCHORS AROUND THE LIGHT D541 PALLET UNIT, AS INSTRUCTED IN KEY NUMBER ⑪.
19. INSTALL THE WEB STRAP TIEDOWN ASSEMBLY ATTACHED TO THE FIFTEENTH TIEDOWN ANCHORS AROUND THE COMBINATION FUZE/PRIMER PALLET UNIT, AS INSTRUCTED IN KEY NUMBER ⑫.
20. NAIL THROUGH THE STRAP ATTACHMENT SLOT OF A HOLD-DOWN STRAP INTO EACH END OF THE SIDE BLOCKING ASSEMBLIES W/1-10d PARTIALLY DRIVEN NAIL AND BEND OVER SIDE OF HOOK.
21. NAIL TWO 12d RETAINING NAILS THRU THE SLOTS IN THE AFT CROP END GATE INTO THE AFT FILLER ASSEMBLY, LEAVING THE NAIL HEADS PROTRUDING THRU THE SLOTS TO PROVIDE LATERAL RESTRAINT.
22. NAIL THE TWO REMAINING 12d RETAINING NAILS THRU THE HOLES IN THE FORWARD CROP END GATE INTO THE FORWARD FILLER PIECES, LEAVING THE NAIL HEADS PROTRUDING THRU THE HOLES TO PROVIDE LATERAL AND VERTICAL RESTRAINT.



D532 PALLET UNIT DETAIL

24 CONTAINERS OF 155MM PROPELLING
 CHARGES (1 PER PA103 CONTAINER) AT 52 LBS - - - - - 1,248 LBS (APPROX)
 DUNNAGE - - - - - 57 LBS
 PALLET - - - - - 65 LBS

TOTAL WEIGHT - - - - - 1,370 LBS (APPROX)
 CUBE - - - - - 38.3 CU FT (APPROX)



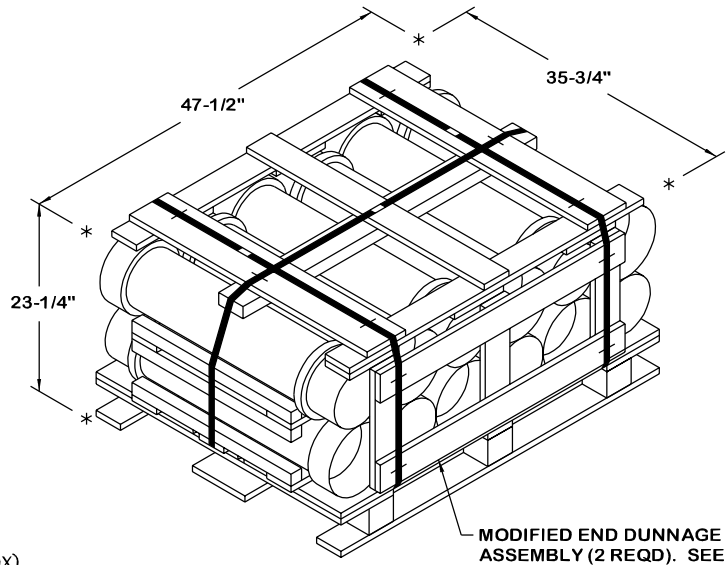
D533 PALLET UNIT DETAIL

24 CONTAINERS OF PROPELLING
 CHARGES (1 PER PA37 CONTAINER) AT 42 LBS - 1,008 LBS (APPROX)
 DUNNAGE - - - - - 87 LBS
 PALLET - - - - - 65 LBS

TOTAL WEIGHT - - - - - 1,160 LBS (APPROX)
 CUBE - - - - - 37.8 CU FT (APPROX)

THE LIGHT D533 PALLET UNIT DEPICTED AT RIGHT SHOULD BE CONSTRUCTED IAW THE AMC DRAWING LISTED IN THE CHART ON PAGE 4 WITH THE FOLLOWING CHANGES:

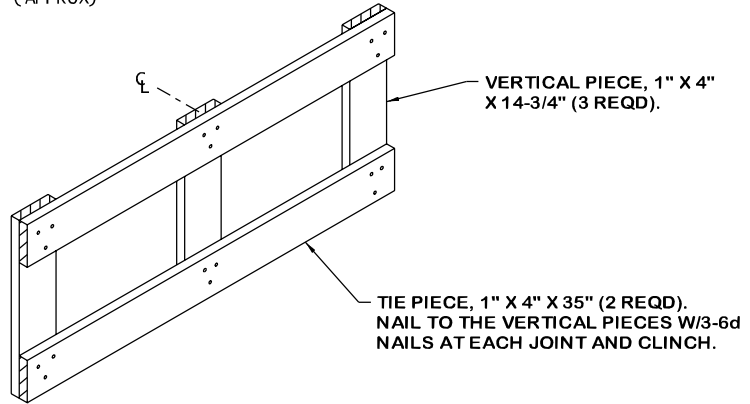
1. ELIMINATE TWO LAYERS OF CONTAINERS (12 CONTAINERS).
2. ELIMINATE TWO INTERMEDIATE DUNNAGE ASSEMBLIES.
3. MODIFY THE END DUNNAGE ASSEMBLIES AS DEPICTED BELOW.
4. REDUCE THE BUNDLING STRAP LENGTH TO 12'-0".
5. REDUCE THE TIEDOWN STRAP LENGTH TO 10'-0".



MODIFIED END DUNNAGE ASSEMBLY (2 REQD). SEE THE DETAIL BELOW.

LIGHT D533 PALLET UNIT DETAIL

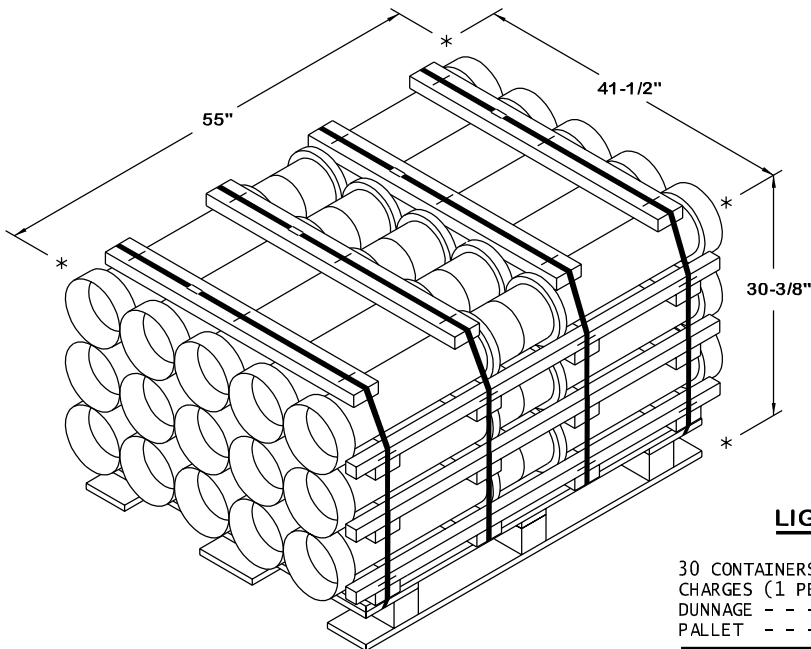
12 CONTAINERS OF PROPELLING CHARGES (1 PER PA37 CONTAINER) AT 42 LBS	--	504 LBS (APPROX)
DUNNAGE	-----	52 LBS
PALLET	-----	65 LBS
<hr/>		
TOTAL WEIGHT	-----	621 LBS (APPROX)
CUBE	-----	22.8 CU FT (APPROX)



VERTICAL PIECE, 1" X 4" X 14-3/4" (3 REQD).

TIE PIECE, 1" X 4" X 35" (2 REQD). NAIL TO THE VERTICAL PIECES W/3-6d NAILS AT EACH JOINT AND CLINCH.

MODIFIED END DUNNAGE ASSEMBLY

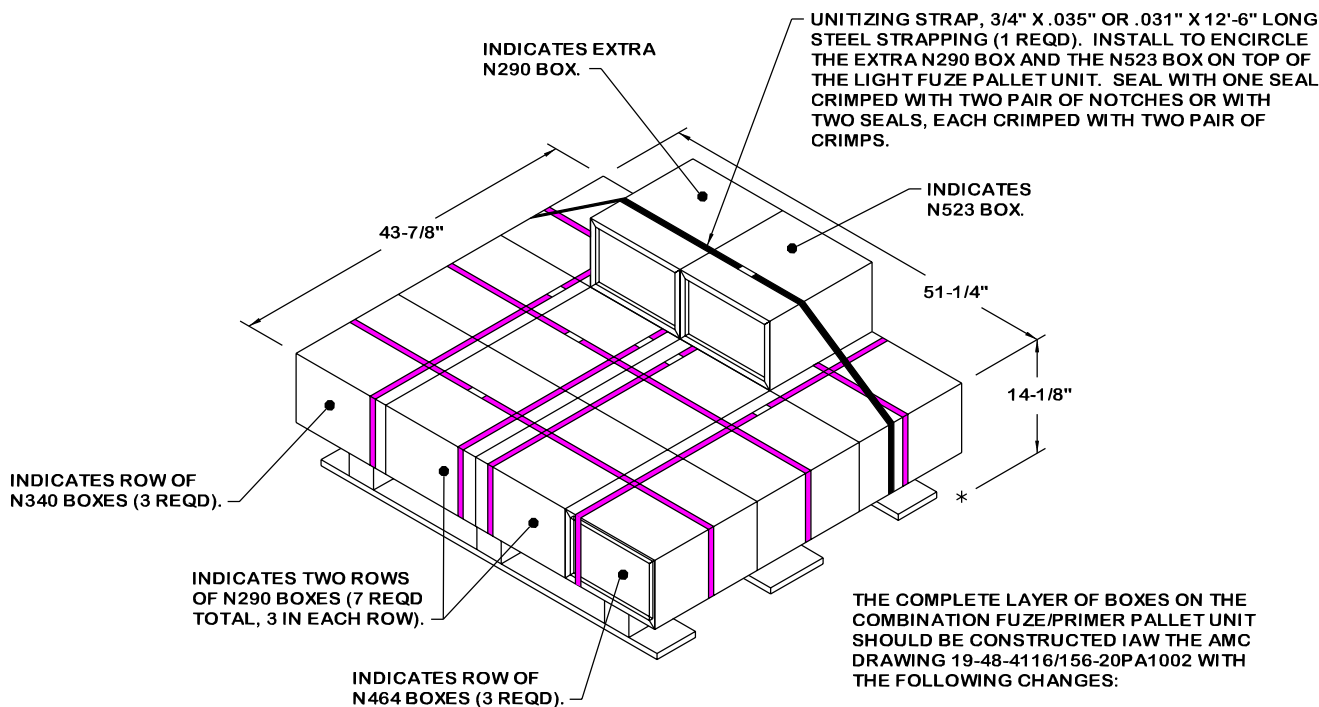


THE LIGHT D541 PALLET UNIT DEPICTED AT LEFT SHOULD BE CONSTRUCTED IAW THE AMC DRAWING LISTED IN THE CHART ON PAGE 4 WITH THE FOLLOWING CHANGES:

1. ELIMINATE TWO LAYERS OF CONTAINERS (20 CONTAINERS).
2. ELIMINATE TWO DUNNAGE ASSEMBLIES.
3. REDUCE THE TIEDOWN STRAP LENGTH TO 12'-2".

LIGHT D541 PALLET UNIT DETAIL

30 CONTAINERS OF PROPELLING CHARGES (1 PER M13 CONTAINER) AT 30 LBS	--	900 LBS (APPROX)
DUNNAGE	-----	93 LBS
PALLET	-----	80 LBS
<hr/>		
TOTAL WEIGHT	-----	1,073 LBS (APPROX)
CUBE	-----	40.2 CU FT (APPROX)



SPECIAL NOTE:

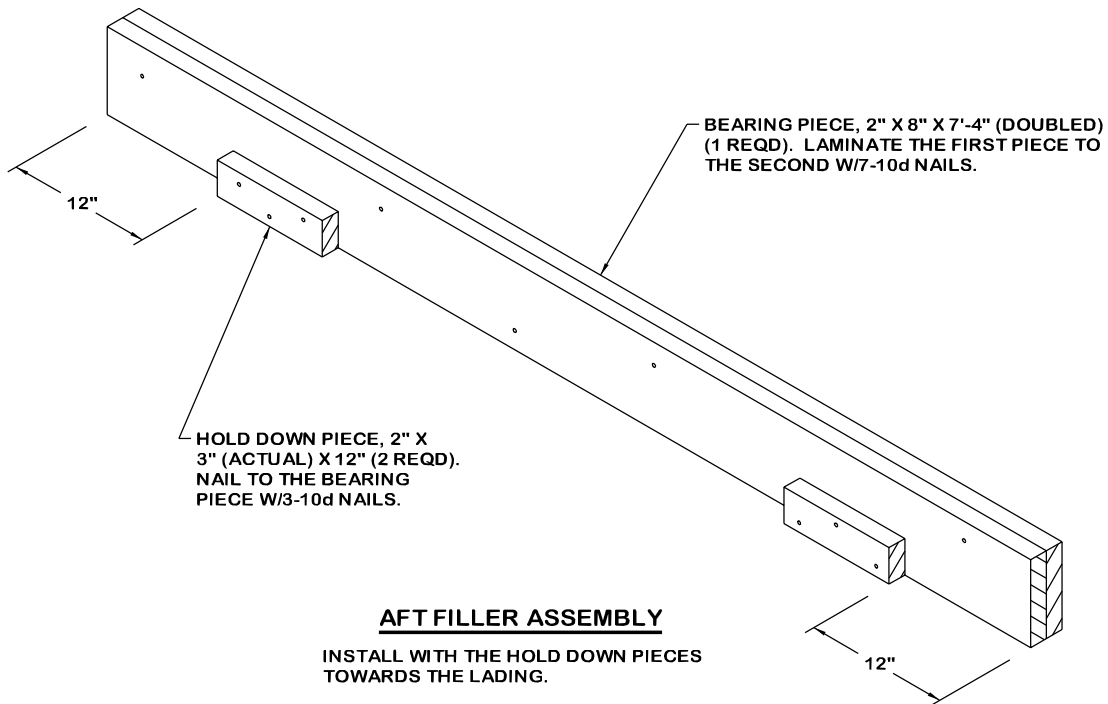
ALIGN THE TWO EXTRA BOXES WITH THE OUTER CENTER BOXES ON THE PALLET UNIT. INSTALL THE UNITIZATION STRAP OVER THE TWO BOXES, TOWARDS THE CENTER OF THE PALLET UNIT, AS SHOWN ABOVE.

THE COMPLETE LAYER OF BOXES ON THE COMBINATION FUZE/PRIMER PALLET UNIT SHOULD BE CONSTRUCTED IAW THE AMC DRAWING 19-48-4116/156-20PA1002 WITH THE FOLLOWING CHANGES:

1. ELIMINATE TWO LAYERS OF BOXES (24 BOXES).
2. REDUCE THE TIEDOWN STRAP LENGTH TO 9'-10".
3. REDUCE THE LOAD STRAP LENGTH TO 11'-1".

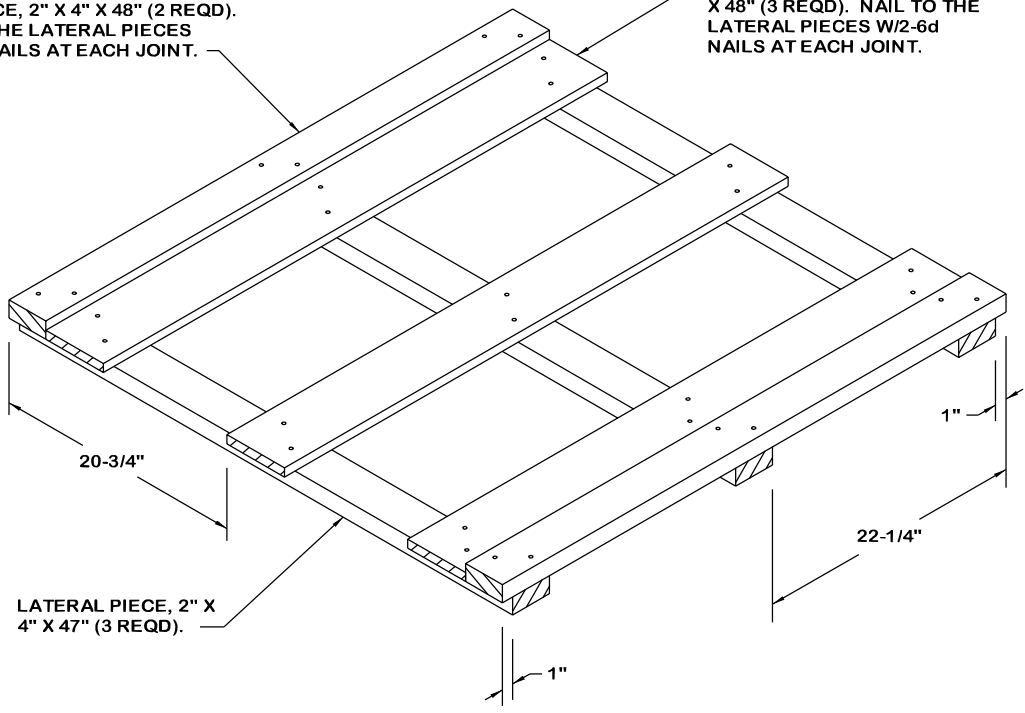
LIGHT FUZE/PRIMER COMBINATION PALLET UNIT DETAIL

7 BOXES OF N290 FUZES (16 PER BOX) AT 42 LBS - - -	294 LBS (APPROX)
3 BOXES OF N340 FUZES (16 PER BOX) AT 46 LBS - - -	138 LBS (APPROX)
3 BOXES OF N464 FUZES (16 PER BOX) AT 50 LBS - - -	150 LBS (APPROX)
1 LIGHT BOX OF PRIMERS (200 PER BOX) AT 25 LBS - -	25 LBS (APPROX)
DUNNAGE - - - - -	9 LBS
PALLET - - - - -	80 LBS
<hr/>	
TOTAL WEIGHT - - - - -	696 LBS (APPROX)
CUBE - - - - -	29.7 CU FT (APPROX)



STOP PIECE, 2" X 4" X 48" (2 REQD).
NAIL TO THE LATERAL PIECES
W/2-10d NAILS AT EACH JOINT.

LONGITUDINAL PIECE, 1" X 6"
X 48" (3 REQD). NAIL TO THE
LATERAL PIECES W/2-6d
NAILS AT EACH JOINT.



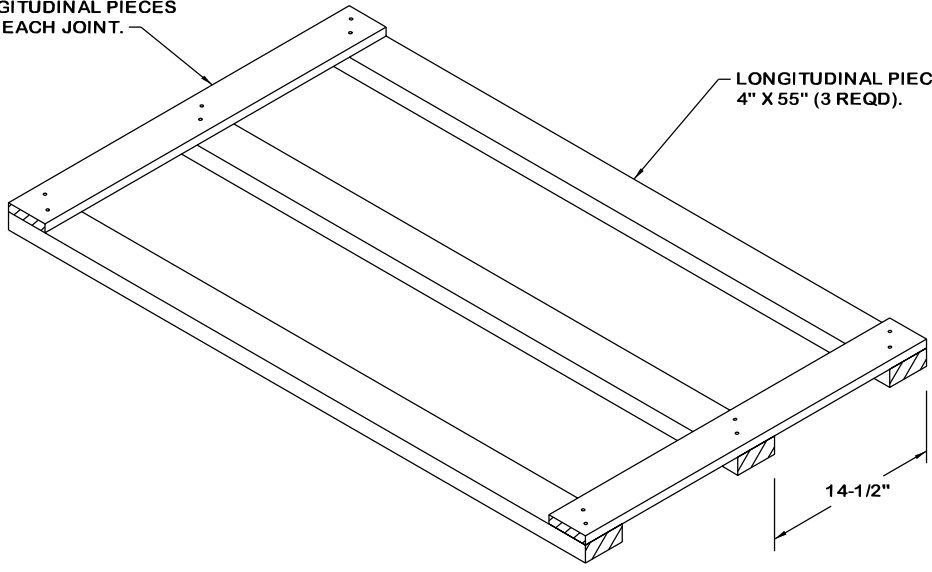
LATERAL PIECE, 2" X
4" X 47" (3 REQD).

PALLET SUPPORT ASSEMBLY A

NOTE: THE LONGITUDINAL PIECES MUST NOT CONTACT THE TOP OF THE LIFTING RINGS OF THE D529 PALLET UNITS. IF THE SINGLE 2" X 4" LATERAL PIECES DO NOT PROVIDE SUFFICIENT CLEARANCE FOR THE D529 LIFTING RINGS, ADDITIONAL PIECES MAY BE ADDED. LAMINATE AN ADDITIONAL 1" OR 2" PIECE TO EACH LATERAL PIECE AS NEEDED TO CLEAR THE LIFTING RINGS.

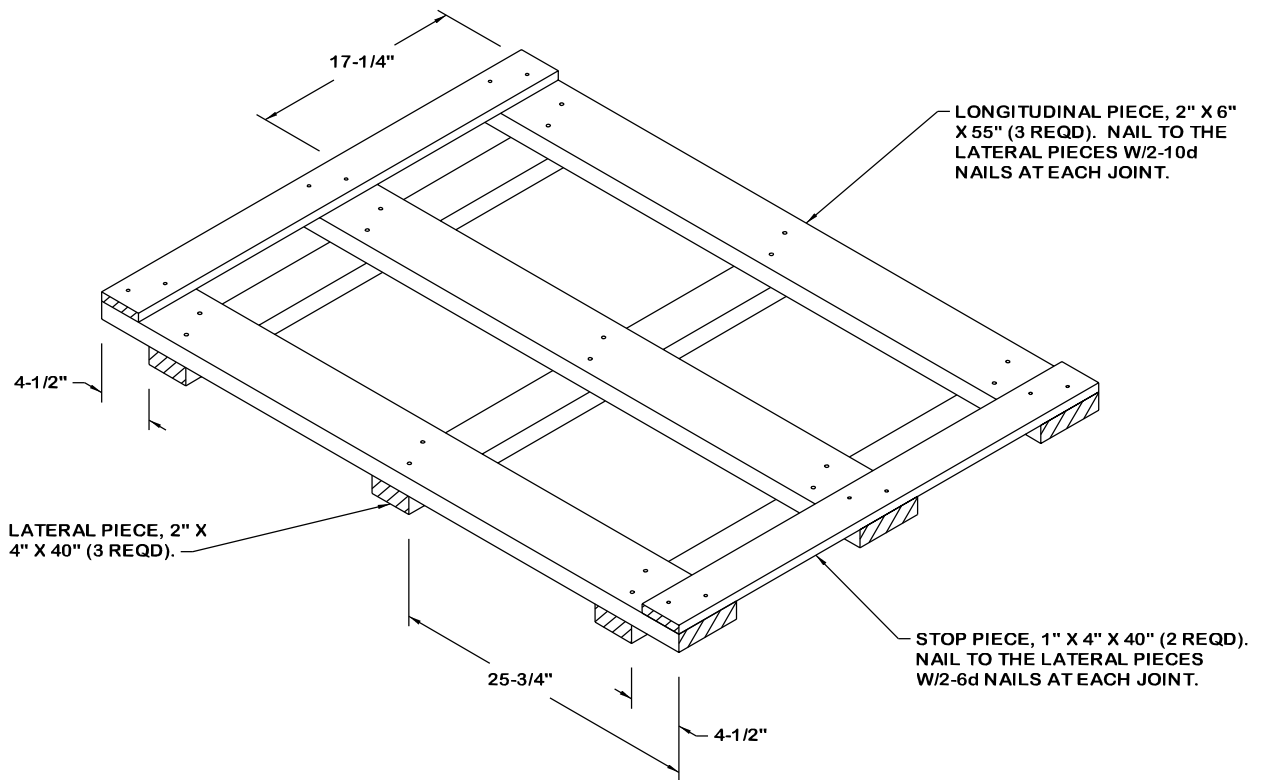
STOP PIECE, 1" X 4" X 32-1/2" (2 REQD).
NAIL TO THE LONGITUDINAL PIECES
W/2-10d NAILS AT EACH JOINT.

LONGITUDINAL PIECE, 2" X
4" X 55" (3 REQD).



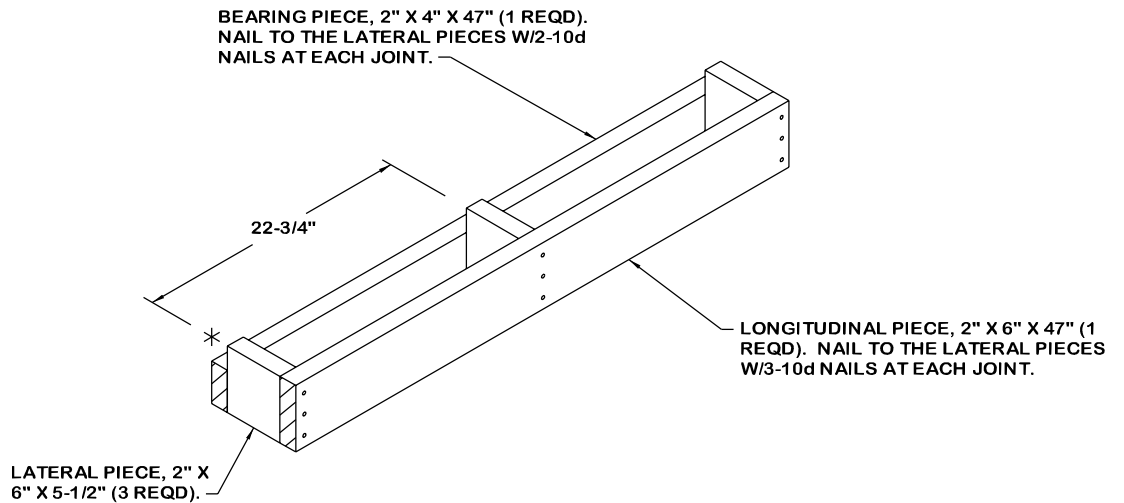
PALLET SUPPORT ASSEMBLY B

THIS ASSEMBLY IS FOR USE WITH THE 1320-01-457-4059-D529 PALLET UNITS ONLY, SEE GENERAL NOTE "J" ON PAGE 3. NOTE: THE STOP PIECES MAY CONTACT THE TOP OF THE LIFTING RINGS OF THE D529 PALLET UNITS, BUT MUST NOT BE DEFORMED BY THEM. IF THE SINGLE 2" X 4" LONGITUDINAL PIECES DO NOT PROVIDE SUFFICIENT CLEARANCE FOR THE D529 LIFTING RINGS, ADDITIONAL PIECES MAY BE ADDED. LAMINATE AN ADDITIONAL 1" OR 2" PIECE TO EACH LONGITUDINAL PIECE AS NEEDED TO CLEAR THE LIFTING RINGS.



ALTERNATE PALLET SUPPORT ASSEMBLY B

THIS ASSEMBLY IS FOR USE WITH THE 1320-01-086-0285-D529 PALLET UNITS ONLY, SEE GENERAL NOTE "J" ON PAGE 3. NOTE: THE LONGITUDNAL PIECES MUST NOT CONTACT THE TOP OF THE LIFTING RINGS OF THE D864 PALLET UNITS. IF THE SINGLE 2" X 4" LATERAL PIECES DO NOT PROVIDE SUFFICIENT CLEARANCE FOR THE D864 LIFTING RINGS, ADDITIONAL PIECES MAY BE ADDED. LAMINATE AN ADDITIONAL 1" OR 2" PIECE TO EACH LATERAL PIECE AS NEEDED TO CLEAR THE LIFTING RINGS.



SIDE BLOCKING ASSEMBLY A

INSTALL WITH THE BEARING PIECE AGAINST THE LADING.

