

PROJECT CA 277/4-92

### **GENERAL NOTES**

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCOR-DANCE WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE OUTLOADING PROCEDURES SPECIFIED IN THIS DRAWING ARE APPLICABLE FOR THE M16 SERIES PROPELLING CHARGE CON-TAINER ASSEMBLED ON THE 40" X 48" 4-WAY ENTRY PALLET. SEE PAGE 3 FOR DETAILS OF THE PALLET UNITS. SEE U. S. ARMY MA-TERIEL COMMAND DRAWING 19-48-4042A/4-20PM1001 FOR UNITIZA-TION PROCEDURES FOR THE M16 SERIES CONTAINERS. <u>CAUTION</u>: REGARDLESS OF THE QUANTITY OF UNITS TO BE SHIPPED, THE "MAXIMUM GROSS WEIGHT" OF THE SIDE OPENING ISO CON-TAINER MUST NOT BE EXCEEDED.
- C. THE LOADS AS SHOWN ARE BASED ON 6,050 POUND 20' LONG BY 8' WIDE BY 8'-6" HIGH SIDE OPENING ISO CONTAINER WITH INSIDE DIMENSIONS OF 19'-4" LONG BY 89" WIDE BY 88" HIGH AND A MAXIMUM GROSS WEIGHT OF 52,910 POUNDS. THE LOAD IS DE-SIGNED FOR TRAILER/CONTAINER-ON-FLATCAR (T/COFC) SHIP-MENT, HOWEVER, THE LOAD AS DESIGNED CAN ALSO BE MOVED BY MOTOR OR WATER CARRIERS. NOTICE: OTHER CONTAINERS OF THE SAME DESIGN CONFIGURATION CAN ALSO BE USED.
- D. WHEN LOADING THE UNITS, THEY ARE TO BE POSITIONED SO AS TO ACHIEVE A TIGHT LOAD (TIGHT AGAINST THE DUNNAGE AS-SEMBLIES). THE UNBLOCKED SPACE ACROSS THE WIDTH OF A LOAD BAY IS NOT TO EXCEED 1-1/2". EXCESSIVE SLACK CAN BE ELIMINATED FROM A LOAD BY ADDING ADDITIONAL HORIZONTAL PIECES TO THE SIDE FILL ASSEMBLIES.
- E. DUNNAGE LUMBER SPECIFIED IS OF NOMINAL SIZE, FOR EXAMPLE, 1" X 6" MATERIAL IS ACTUALLY 3/4" THICK BY 5-1/2" WIDE AND 2" X 4" MATERIAL IS ACTUALLY 1-1/2" THICK BY 3-1/2" WIDE.
- F. A STAGGERED NAILING PATTERN WILL BE USED WHENEVER POS-SIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE AS-SEMBLIES 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.
- G. IN SOME CONTAINERS THERE IS A SLOT AT THE CORNERS OF THE ENDWALLS. PIECES OF DUNNAGE MATERIAL MUST BE LAMINATED TO THE BUFFER PIECES ON THE END BLOCKING ASSEMBLIES TO PROVIDE A FLAT SURFACE FOR THE BUFFER PIECES. A PIECE OF 2" X 4", 2" X 3" OR A SPECIAL WIDTH PIECE CUT-TO-FIT CAN BE USED. THIS FILL PIECE WILL BE NAILED WITH ONE APPROPRIATELY SIZED NAIL EVERY 12". NOTE THAT SOME CONTAINERS ARE EQUIPPED WITH "TIE-BARS" IN THE CORNER SLOT, WHICH PRECLUDE THE USE OF A FULL HEIGHT FILL PIECE. WHEN "TIE-BARS" ARE PRE-SENT, THE FILL PIECE MUST BE INSTALLED IN SEGMENTS DE-SIGNED TO FIT BETWEEN THE "TIE-BARS" VERTICALLY. THE FILL PIECE(S) IS NOT REQUIRED WHEN THE CORNER PORTIONS OF THE CONTAINER ENDWALLS ARE SMOOTH AND FLAT. DO NOT ALLOW ANY DUNNAGE ASSEMBLY TO CONTACT THE CONTAINER END-WALLS, ONLY THE CORNER POSTS OF THE CONTAINER SHOULD BE USED FOR LONGITUDINAL BLOCKING.
- H. <u>CAUTION</u>: DO NOT NAIL DUNNAGE MATERIAL TO THE CONTAINER WALLS OR FLOOR. ALL NAILING WILL BE WITHIN THE DUNNAGE. PORTIONS OF THE CONTAINER DEPICTED WITHIN THIS DRAWING, SUCH AS THE SIDE DOORS, HAVE NOT BEEN SHOWN IN THE LOAD VIEW FOR CLARITY PURPOSES.
- J. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVA-LENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454 KG.

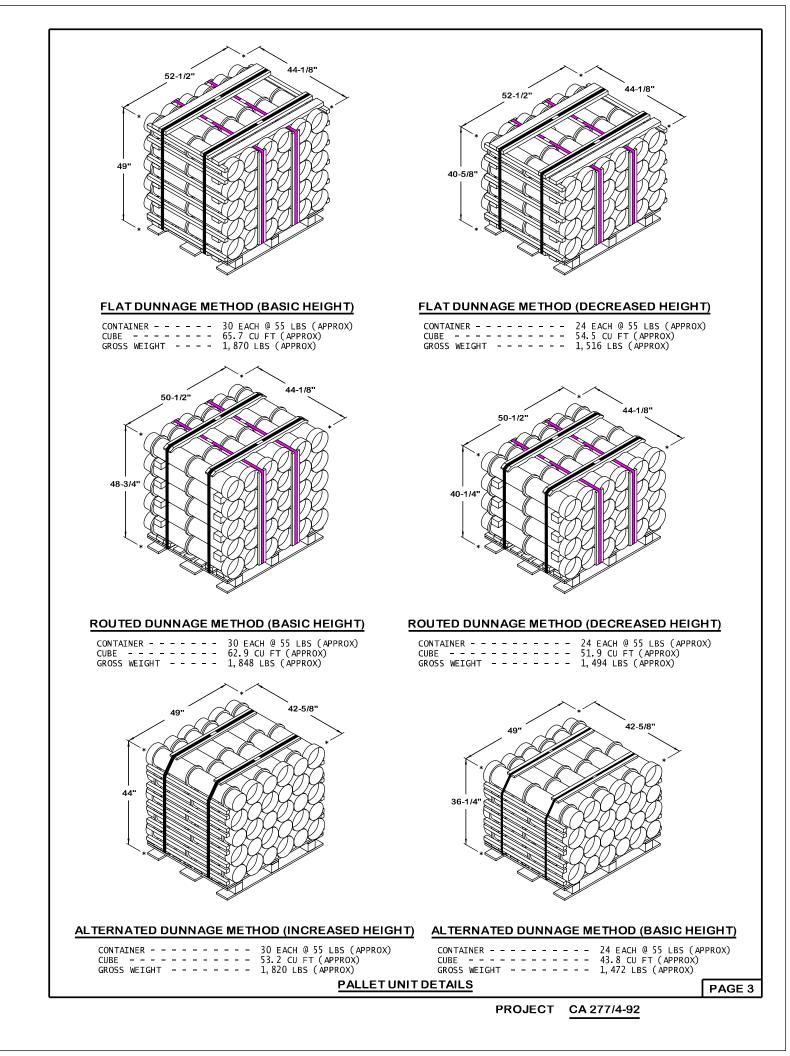
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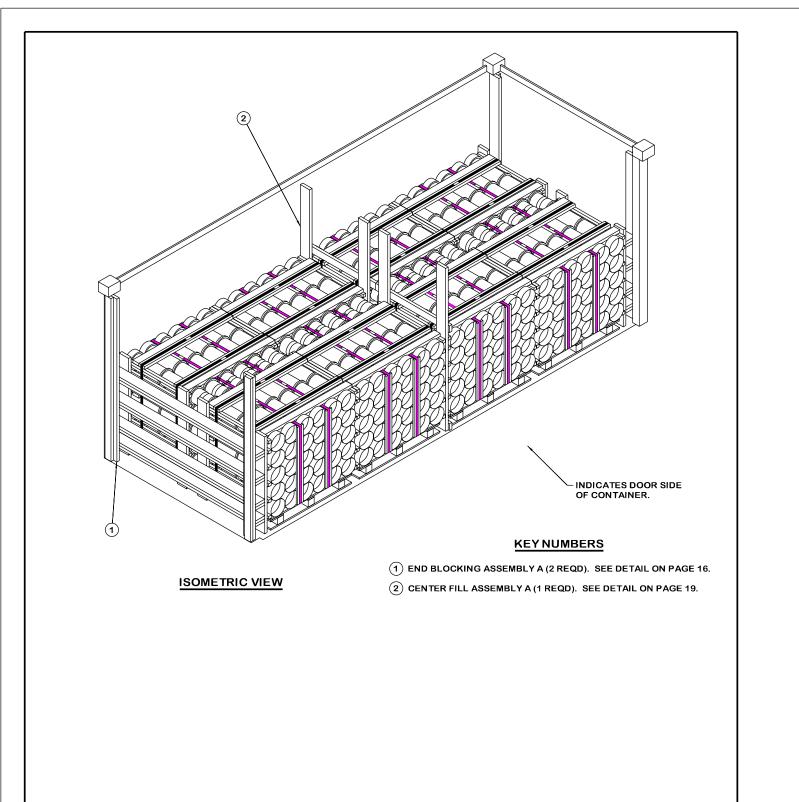
#### (GENERAL NOTES CONTINUED)

- K. MAXIMUM LOAD WEIGHT CRITERIA:
  - THE MAXIMUM LOAD WEIGHTS ARE CONTROLLED BY EQUIPMENT CAPACITY FACTORS. ALTHOUGH THE HEAVIEST MAXIMUM LOADS ARE DELINEATED IN THE LOAD VIEWS, PROVISIONS ARE INCLUDED WITHIN THIS DRAWING SO THAT THE BASIC LOADS CAN BE AD-JUSTED TO SATISFY A LESSER QUANTITY OF LADING UNITS. DE-PENDING ON TRANSPORTATION ROUTING, IT MAY BE NECESSARY TO REDUCE THE LOAD WEIGHT TO SATISFY "WEIGHT LAWS" OF CERTAIN STATES. ALSO, IT MAY BE NECESSARY TO REDUCE THE LOAD WEIGHT TO SATISFY OTHER WEIGHT RESTRICTIONS IM-POSED ON THE INTERMODAL CONTAINER SYSTEM.
- L. REQUIREMENTS CITED WITHIN THE ASSOCIATION OF AMERICAN RAILROADS (AAR) INTERMODAL LOADING GUIDE APPLY WHEN THE SHIPMENT MOVES BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC). SPECIAL T/COFC NOTES FOLLOW:
  - A. A LOADED CONTAINER MUST BE ON A CHASSIS EQUIPPED WITH TWO BOGIE ASSEMBLIES WHEN BEING MOVED IN TOFC SERVICE.
  - B. THE LOAD LIMIT OF A T/COFC RAILCAR MUST NOT BE EX-CEEDED, NOR WILL A CAR BE LOADED SO THAT THE TRUCK UN-DER ONE END OF THE CAR CARRIES MORE THAN ONE-HALF OF THE LOAD LIMIT FOR THAT CAR.
- M. DURING INTRASTATE AND/OR INTERSTATE MOVES BY MOTOR CARRIER, A PROPER CHASSIS OR MODIFIED FLATBED TRAILER MUST BE USED TO PRECLUDE VIOLATION OF ONE OR MORE "WEIGHT LAWS" APPLICABLE TO THE STATE OR STATES IN-VOLVED.
- N. WHETHER A CONTAINER IS FULL OR IS LOADED WITH A REDUCED QUANTITY OF LADING UNITS, THE LENGTHWISE CENTER OF GRAV-ITY OF THE LOAD MUST BE WITHIN 12", IN EITHER DIRECTION, OF THE MID-POINT OF THE CONTAINER.
- O. THE QUANTITY OF PALLET UNITS SHOWN IN THE LOAD ON PAGES 4, 6, 8, 10, 12, AND 14 MAY BE REDUCED FOR SHIPMENT, IF DESIRED. SEE THE OMITTED UNIT ASSEMBLY ON PAGE 21.

#### MATERIAL SPECIFICATIONS

<u>LUMBER</u> :	SEE TM 743-200-1 (DUNNAGE LUMBER) AND VOLUNTARY PRODUCT STANDARD PS 20.		
<u>NAILS</u> :	ASTM F1667; OR NLCMMS).	COMMON STEEL NAIL (NLCMS	





8-UNIT LOAD (FLAT DUNNAGE - BASIC HEIGHT)

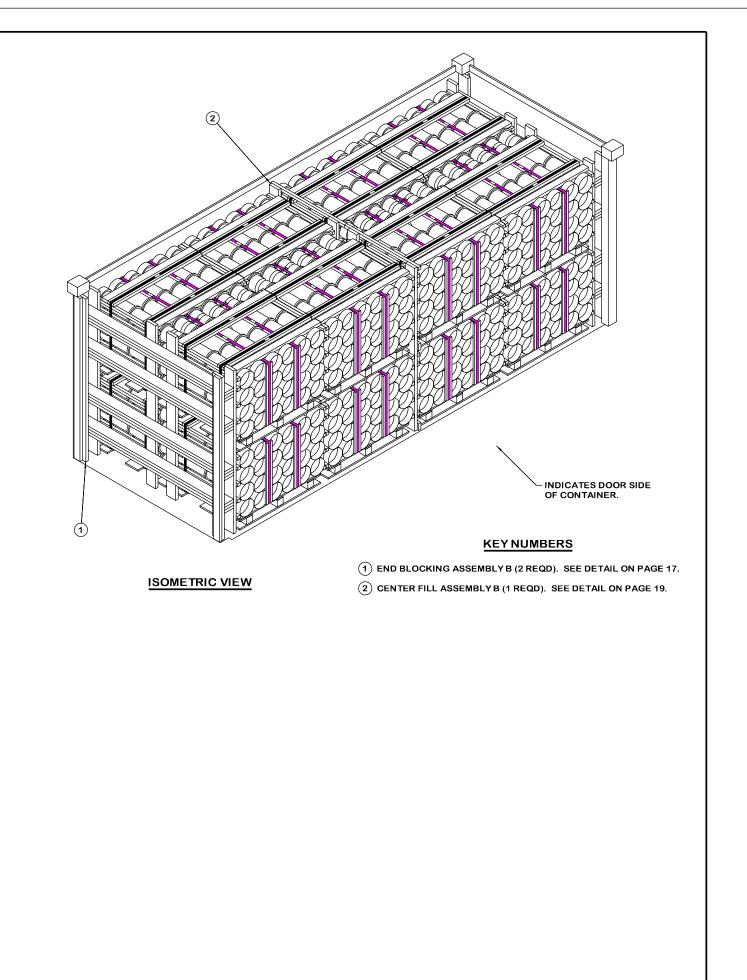
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PAGE 4

- 1. PREFABRICATE TWO OF END BLOCKING ASSEMBLY "A", AND ONE OF CENTER FILL ASSEMBLY "A".
- 2. INSTALL ONE END BLOCKING ASSEMBLY AGAINST RIGHT SIDE END WALL AND LOAD TWO PALLET UNITS TIGHT AGAINST THE END BLOCKING ASSEMBLY.
- 3. INSTALL ONE END BLOCKING ASSEMBLY AGAINST LEFT SIDE END WALL AND LOAD TWO PALLET UNITS TIGHT AGAINST THE END BLOCKING ASSEMBLY.
- 4. LOAD ONE PALLET UNIT ALONG BACK WALL, TIGHT AGAINST RIGHT SIDE PALLET UNITS.
- 5. LOAD ONE PALLET UNIT ALONG BACK WALL, TIGHT AGAINST LEFT SIDE PALLET UNITS.
- 6. INSTALL LEFT HALF OF CENTER FILL ASSEMBLY IN THE SPACE BE-TWEEN THE PALLET UNITS ALONG THE BACK WALL.
- 7. LOAD ONE PALLET UNIT ALONG DOOR SIDE OF CONTAINER, TIGHT AGAINST RIGHT SIDE PALLET UNITS.
- 8. LOAD ONE PALLET UNIT ALONG DOOR SIDE OF CONTAINER, TIGHT AGAINST LEFT SIDE PALLET UNITS.
- 9. INSTALL RIGHT HALF OF CENTER FILL ASSEMBLY IN THE SPACE BETWEEN THE PALLET UNITS ALONG DOOR SIDE OF CONTAINER.

BILL OF MATERIAL				
LUMBER LINEAR FEET BOARD FEET				
2" x 4" 2" x 6"	43 205	29 205		
NAILS	NO. REQD	POUNDS		
10d (3")	232	3-3/4		

AL		
	BOARD FEET	LOAD AS SHOWN
	29 205	ITEM QUANTITY WEIGHT (APPROX)
	POUNDS	PALLET UNIT 8 14,960 LBS DUNNAGE 472 LBS
	3-3/4	CONTAINER 6, 050 LBS
		TOTAL WEIGHT 21,482 LBS (APPROX)
	8-UNIT LOAD (FL	LAT DUNNAGE - BASIC HEIGHT) PAGE 5
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16-UNIT LOAD (FLAT DUNNAGE - DECREASED HEIGHT)

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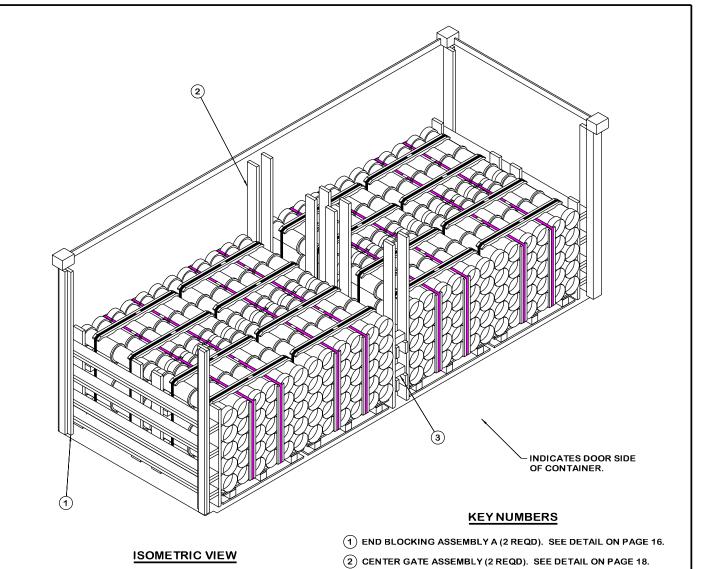
PAGE 6

- 1. PREFABRICATE TWO OF END BLOCKING ASSEMBLY "B", AND ONE OF CENTER FILL ASSEMBLY "B".
- 2. INSTALL ONE END BLOCKING ASSEMBLY AGAINST RIGHT SIDE END WALL AND LOAD FOUR PALLET UNITS (ONE ROW OF TWO PALLET UNITS DOUBLE STACKED) TIGHT AGAINST THE END BLOCKING ASSEMBLY.
- 3. INSTALL ONE END BLOCKING ASSEMBLY AGAINST LEFT SIDE END WALL AND LOAD FOUR PALLET UNITS (ONE ROW OF TWO PALLET UNITS DOUBLE STACKED) TIGHT AGAINST THE END BLOCKING AS-SEMBLY.
- 4. LOAD TWO PALLET UNITS (STACKED) ALONG BACK WALL, TIGHT AGAINST RIGHT SIDE PALLET UNITS.
- 5. LOAD TWO PALLET UNITS (STACKED) ALONG BACK WALL, TIGHT AGAINST LEFT SIDE PALLET UNITS.
- 6. INSTALL LEFT HALF OF CENTER FILL ASSEMBLY IN THE SPACE BE-TWEEN THE PALLET UNITS ALONG THE BACK WALL.
- 7. LOAD TWO PALLET UNITS (STACKED) ALONG DOOR SIDE OF CON-TAINER, TIGHT AGAINST RIGHT SIDE PALLET UNITS.
- 8. LOAD TWO PALLET UNITS (STACKED) ALONG DOOR SIDE OF CON-TAINER, TIGHT AGAINST LEFT SIDE PALLET UNITS.
- 9. INSTALL RIGHT HALF OF CENTER FILL ASSEMBLY IN THE SPACE BETWEEN THE PALLET UNITS ALONG DOOR SIDE OF CONTAINER.

BILL OF MATERIAL				
LUMBER LINEAR FEET BOARD FEET				
2" x 2" 2" x 4" 2" x 6"	8 43 286	3 29 286		
NAILS	NO. REQD	POUNDS		
10d (3")	376	6		

**16-UNIT LOAD (FLAT DUNNA** 

LOAD AS SHOWN						
ITEM	QUANT	TITY		WEIGHT	(APF	PROX)
PALLET UN DUNNAGE CONTAINER	IT 16	6 – – – · - – – – – ·		24, 256 642 6, 050	LBS	
	TOTAL WEIGHT			30, 948	LBS	(APPROX)
GE - DECREASED HEIGHT) PAGE 7						
	PROJECT	CA 277/4	4-92			



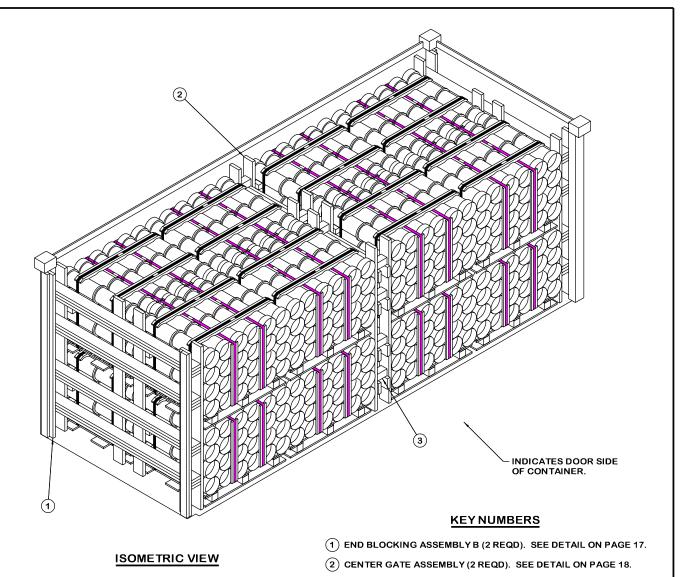
(3) STRUT (8 REQD). SEE DETAIL ON PAGE 21.

### 8-UNIT LOAD (ROUTED DUNNAGE - BASIC HEIGHT)

PROJECT CA 277/4-92

- 1. PREFABRICATE TWO OF END BLOCKING ASSEMBLY "A", AND TWO CENTER GATE ASSEMBLIES (FOR ONE-HIGH LOAD).
- 2. INSTALL ONE END BLOCKING ASSEMBLY AGAINST RIGHT SIDE END WALL AND LOAD TWO PALLET UNITS TIGHT AGAINST THE END BLOCKING ASSEMBLY.
- 3. INSTALL ONE END BLOCKING ASSEMBLY AGAINST LEFT SIDE END WALL AND LOAD TWO PALLET UNITS TIGHT AGAINST THE END BLOCKING ASSEMBLY.
- 4. LOAD ONE PALLET UNIT ALONG BACK WALL, TIGHT AGAINST RIGHT SIDE PALLET UNITS.
- 5. LOAD ONE PALLET UNIT ALONG BACK WALL, TIGHT AGAINST LEFT SIDE PALLET UNITS.
- 6. INSTALL RIGHT HALF AND LEFT HALF OF ONE CENTER GATE AS-SEMBLY IN THE SPACE BETWEEN THE PALLET UNITS ALONG THE BACK WALL, WITH OUTER ENDS OF THE ASSEMBLY FACING BACK WALL AND THE FRONT OF EACH HALF FACING EACH OTHER.
- 7. MEASURE LENGTH FOR HORIZONTAL STRUTS AND CUT REQUIRED QUANTITY OF STRUTS.
- 8. REMOVE THE CENTER GATE ASSEMBLY AND PLACE STRUTS IN PO-SITION ACCORDING TO STRUT DETAIL. NAIL THROUGH CENTER GATE ASSEMBLY INTO STRUTS W/2-12d NAILS AT EACH END OF STRUT.
- 9. INSTALL THE STRUTTED CENTER GATE ASSEMBLY IN THE SPACE BETWEEN THE PALLET UNITS ALONG THE BACK WALL.
- 10. LOAD ONE PALLET UNIT ALONG DOOR SIDE OF CONTAINER, TIGHT AGAINST RIGHT SIDE PALLET UNITS.
- 11. LOAD ONE PALLET UNIT ALONG DOOR SIDE OF CONTAINER, TIGHT AGAINST LEFT SIDE PALLET UNITS.
- 12. INSTALL RIGHT HALF AND LEFT HALF OF ONE CENTER GATE AS-SEMBLY IN THE SPACE BETWEEN THE PALLET UNITS ALONG DOOR SIDE OF CONTAINER, WITH OUTER ENDS OF THE ASSEMBLY FAC-ING THE DOOR AND THE FRONT OF EACH HALF FACING EACH OTHER.
- 13. MEASURE LENGTH FOR HORIZONTAL STRUTS AND CUT REQUIRED QUANTITY OF STRUTS.
- 14. REMOVE THE CENTER GATE ASSEMBLY AND PLACE STRUTS IN PO-SITION ACCORDING TO STRUT DETAIL. NAIL THROUGH CENTER GATE ASSEMBLY INTO STRUTS W/2-12d NAILS AT EACH END OF STRUT.
- 15. INSTALL THE STRUTTED CENTER GATE ASSEMBLY IN THE SPACE BETWEEN THE PALLET UNITS ALONG DOOR SIDE OF CONTAINER.

BILL OF MATERIAL				
LUMBER	LINEAR FEET	BOARD FEET		
2" x 4" 2" x 6" 4" x 4"	58 234 5	39 234 7		
NAILS	NO. REQD	POUNDS		
10d (3") 12d (3-1/4")	280 32	4-1/2 1/2		



(3) STRUT (16 REQD). SEE DETAIL ON PAGE 21.

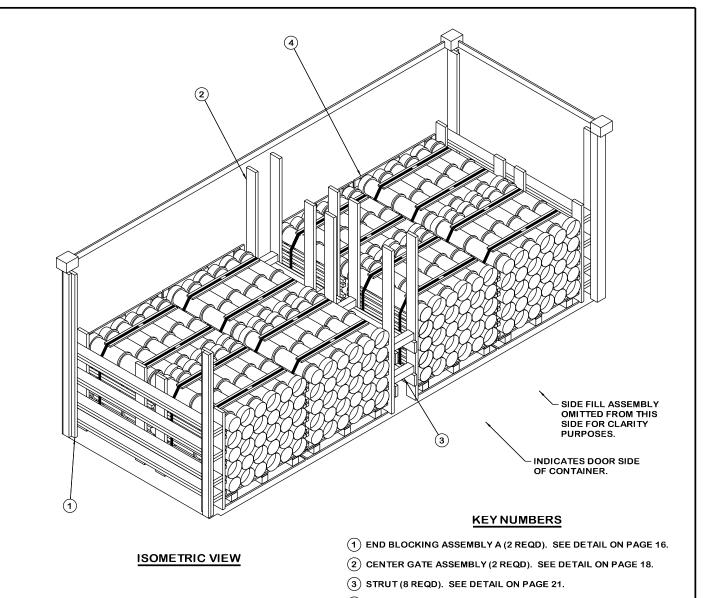
PAGE 10

16-UNIT LOAD (ROUTED DUNNAGE - DECREASED HEIGHT)

PROJECT CA 277/4-92

- 1. PREFABRICATE TWO OF END BLOCKING ASSEMBLY "B", AND TWO CENTER GATE ASSEMBLIES (FOR TWO-HIGH LOAD).
- 2. INSTALL ONE END BLOCKING ASSEMBLY AGAINST RIGHT SIDE END WALL AND LOAD FOUR PALLET UNITS (ONE ROW OF TWO PALLET UNITS DOUBLE STACKED) TIGHT AGAINST THE END BLOCKING ASSEMBLY.
- 3. INSTALL ONE END BLOCKING ASSEMBLY AGAINST LEFT SIDE END WALL AND LOAD FOUR PALLET UNITS (ONE ROW OF TWO PALLET UNITS DOUBLE STACKED) TIGHT AGAINST THE END BLOCKING AS-SEMBLY.
- 4. LOAD TWO PALLET UNITS (STACKED) ALONG BACK WALL, TIGHT AGAINST RIGHT SIDE PALLET UNITS.
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- 6. INSTALL RIGHT HALF AND LEFT HALF OF ONE CENTER GATE AS-SEMBLY IN THE SPACE BETWEEN THE PALLET UNITS ALONG THE BACK WALL, WITH OUTER ENDS OF THE ASSEMBLY FACING BACK WALL AND THE FRONT OF EACH HALF FACING EACH OTHER.
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- 8. REMOVE THE CENTER GATE ASSEMBLY AND PLACE STRUTS IN PO-SITION ACCORDING TO STRUT DETAIL. NAIL THROUGH CENTER GATE ASSEMBLY INTO STRUTS W/2-12d NAILS AT EACH END OF STRUT.
- 9. INSTALL THE STRUTTED CENTER GATE ASSEMBLY IN THE SPACE BETWEEN THE PALLET UNITS ALONG THE BACK WALL.
- 10. LOAD TWO PALLET UNITS (STACKED) ALONG DOOR SIDE OF CON-TAINER, TIGHT AGAINST RIGHT SIDE PALLET UNITS.
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BILL OF MATERIAL					
LUMBER	LINEAR FEET	BOARD FEET			
2" × 4" 2" × 6" 4" × 4"	88 315 10	59 315 13			
NAILS	NO. REQD	POUNDS			
10d (3") 12d (3-1/4")	416 64	6-1/2 1			



(4) SIDE FILL ASSEMBLY A (8 REQD). SEE DETAIL ON PAGE 20.

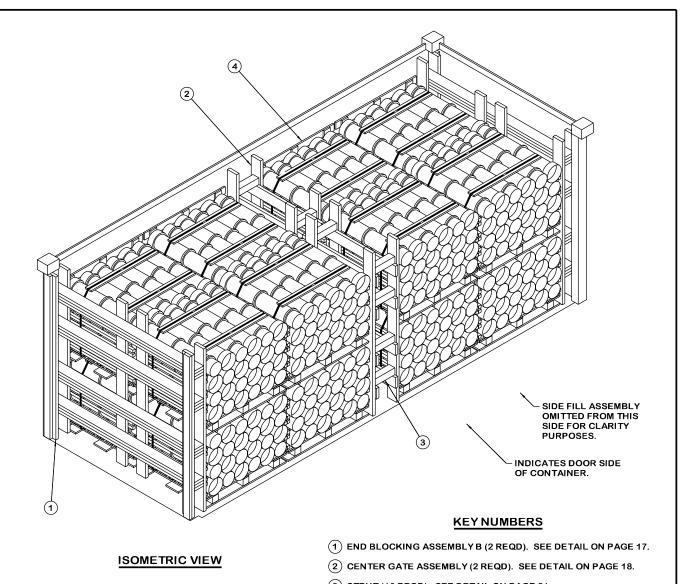
8-UNIT LOAD (ALTERNATED PALLET UNIT - INCREASED HEIGHT)

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- 1. PREFABRICATE TWO OF END BLOCKING ASSEMBLY "A", EIGHT OF SIDE FILL ASSEMBLY "A", AND TWO CENTER GATE ASSEMBLIES (FOR ONE-HIGH LOAD).
- 2. INSTALL FOUR SIDE FILL ASSEMBLIES ALONG BACK WALL OF CONTAINER, WITH CLEATS FACING PALLET UNITS.
- 3. INSTALL ONE END BLOCKING ASSEMBLY AGAINST RIGHT SIDE END WALL AND LOAD TWO PALLET UNITS TIGHT AGAINST THE END BLOCKING ASSEMBLY.
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- 5. LOAD ONE PALLET UNIT ALONG BACK WALL, TIGHT AGAINST RIGHT SIDE PALLET UNITS.
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- 7. INSTALL RIGHT HALF AND LEFT HALF OF ONE CENTER GATE AS-SEMBLY IN THE SPACE BETWEEN THE PALLET UNITS ALONG THE BACK WALL, WITH OUTER ENDS OF THE ASSEMBLY FACING BACK WALL AND THE FRONT OF EACH HALF FACING EACH OTHER.
- 8. MEASURE LENGTH FOR HORIZONTAL STRUTS AND CUT REQUIRED QUANTITY OF STRUTS.
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- 17. INSTALL FOUR SIDE FILL ASSEMBLIES ALONG DOOR SIDE OF CON-TAINER, WITH CLEATS FACING PALLET UNITS.

BILL OF MATERIAL				
LUMBER	LINEAR FEET	BOARD FEET		
1" × 4" 2" × 4" 2" × 6" 4" × 4"	216 66 234 9	72 44 234 12		
NAILS	NO. REQD	POUNDS		
10d (3") 12d (3-1/4")	504 32	7-3/4 1/2		



- (3) STRUT (16 REQD). SEE DETAIL ON PAGE 21.
- (4) SIDE FILL ASSEMBLY B (8 REQD). SEE DETAIL ON PAGE 20.

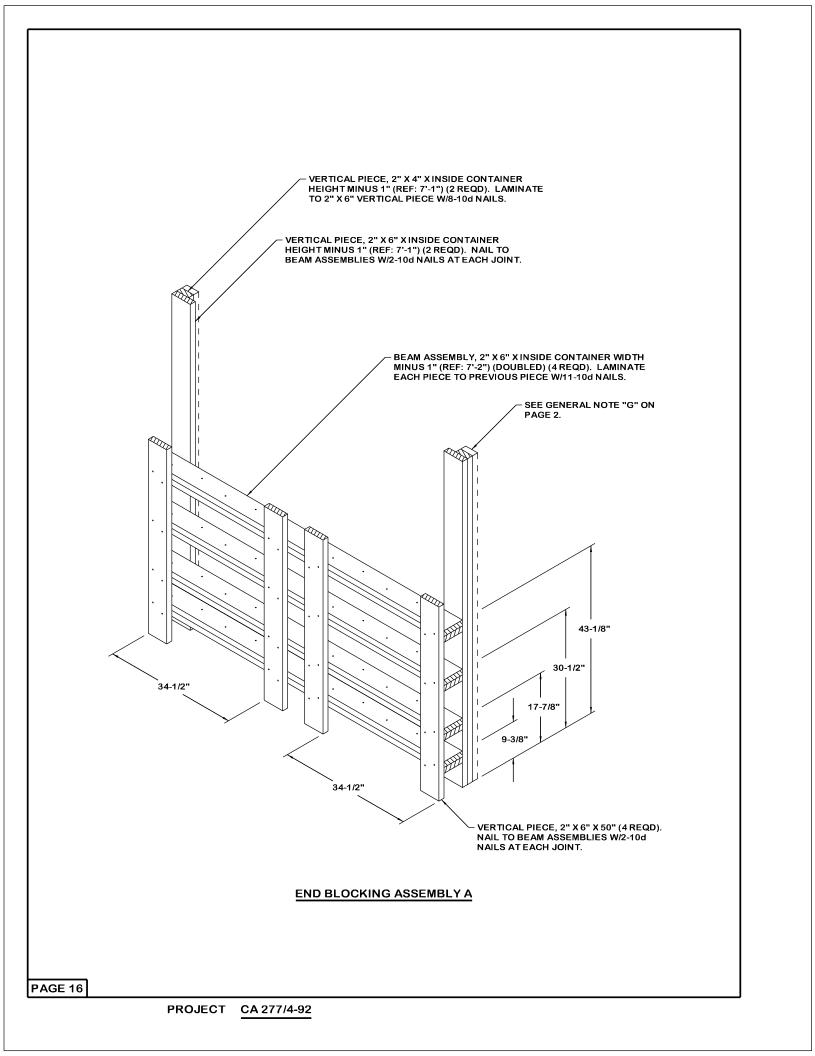
16-UNIT LOAD (ALTERNATED PALLET UNIT - BASIC HEIGHT)

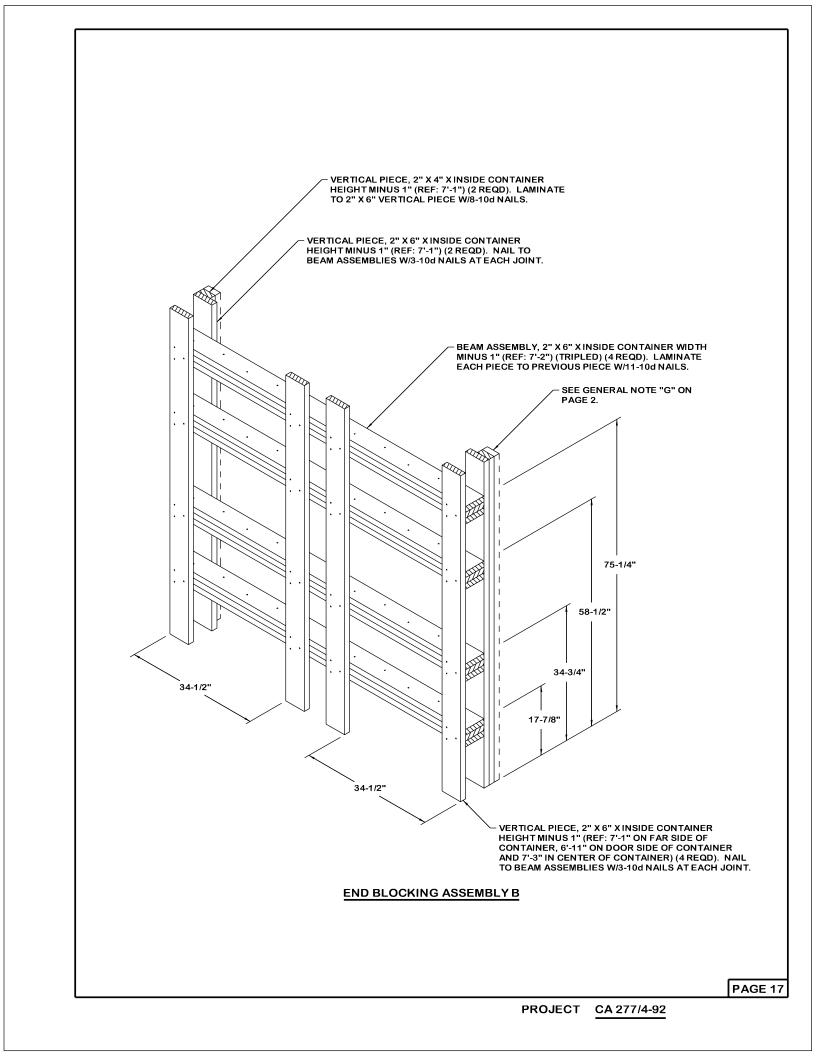
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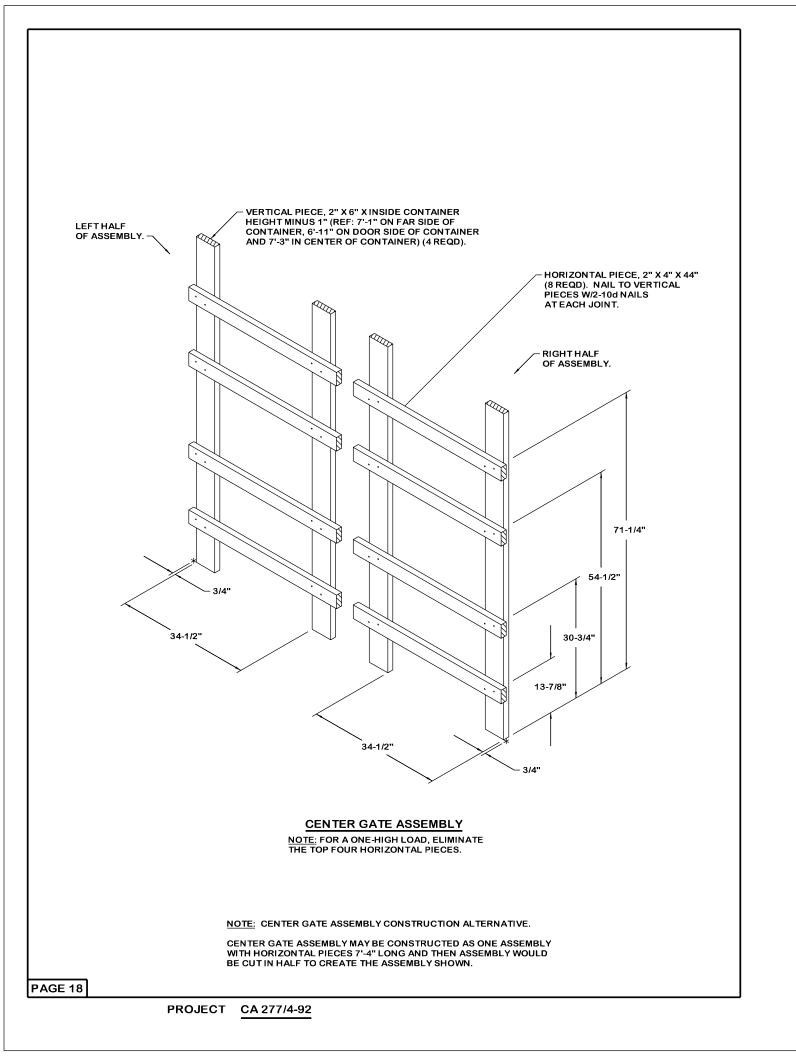
PAGE 14

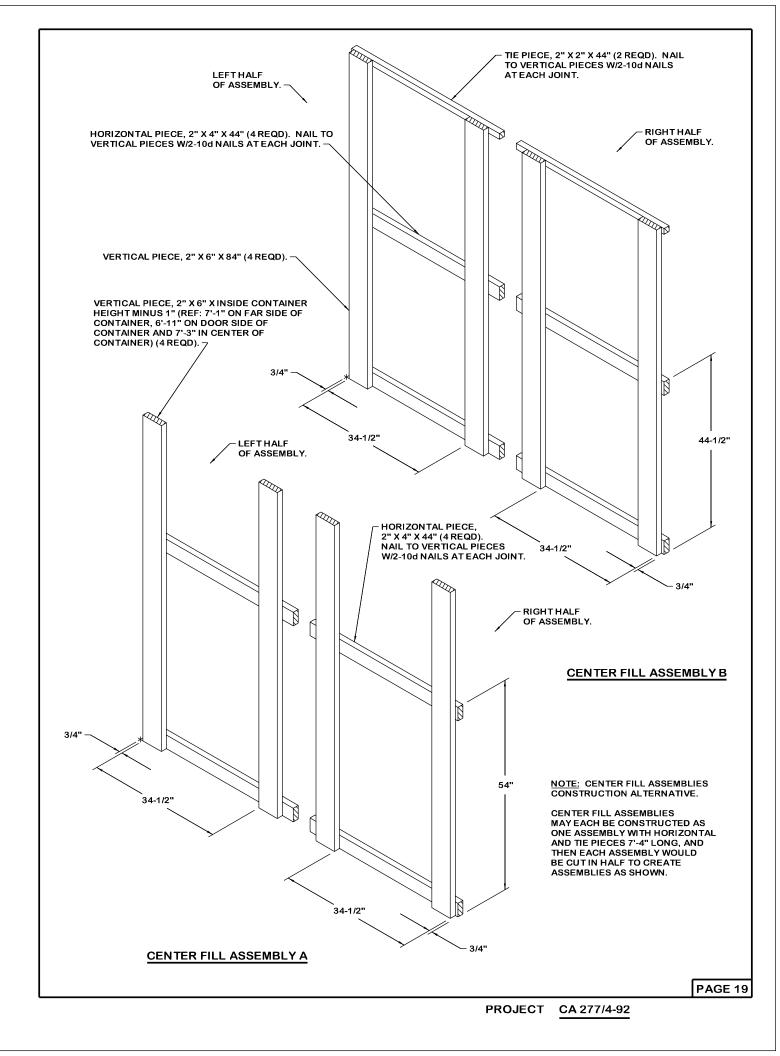
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- 8. MEASURE LENGTH FOR HORIZONTAL STRUTS AND CUT REQUIRED QUANTITY OF STRUTS.
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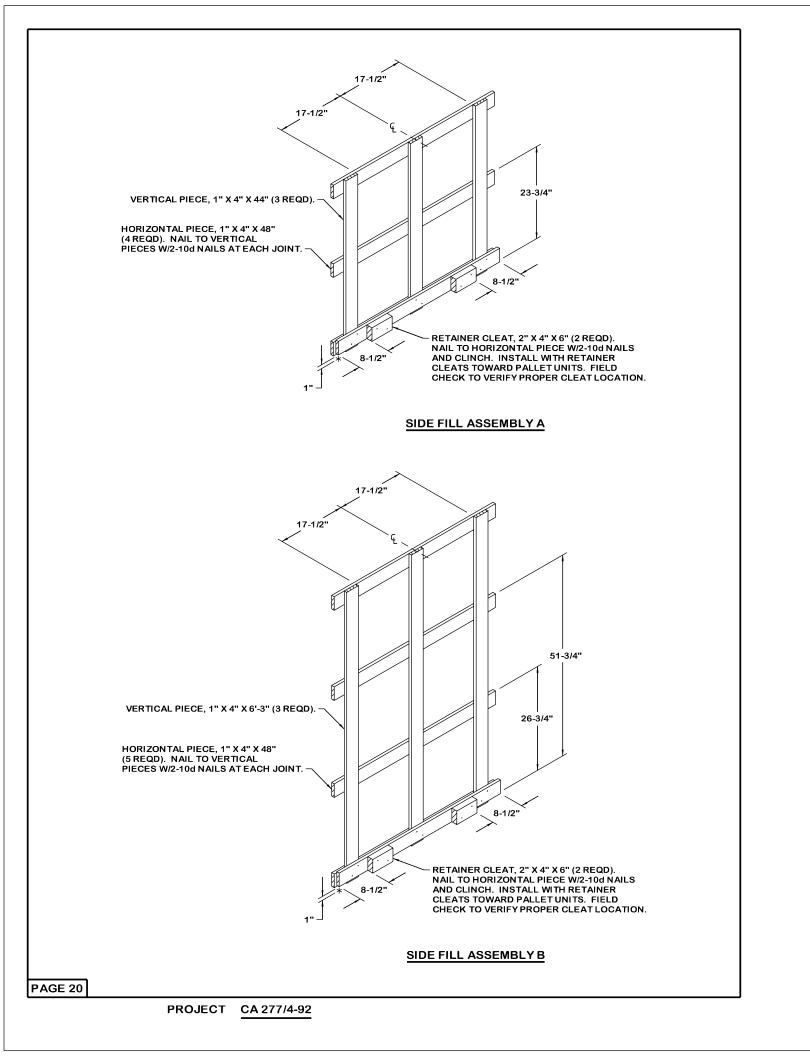
BILL OF MATERIAL				
LUMBER LINEAR FEET BOARD FEET				
1" × 4" 2" × 4" 2" × 6" 4" × 4"	310 96 315 18	104 64 315 24		
NAILS	NO. REQD	POUNDS		
10d (3") 12d (3-1/4")	688 64	10-1/2 1		

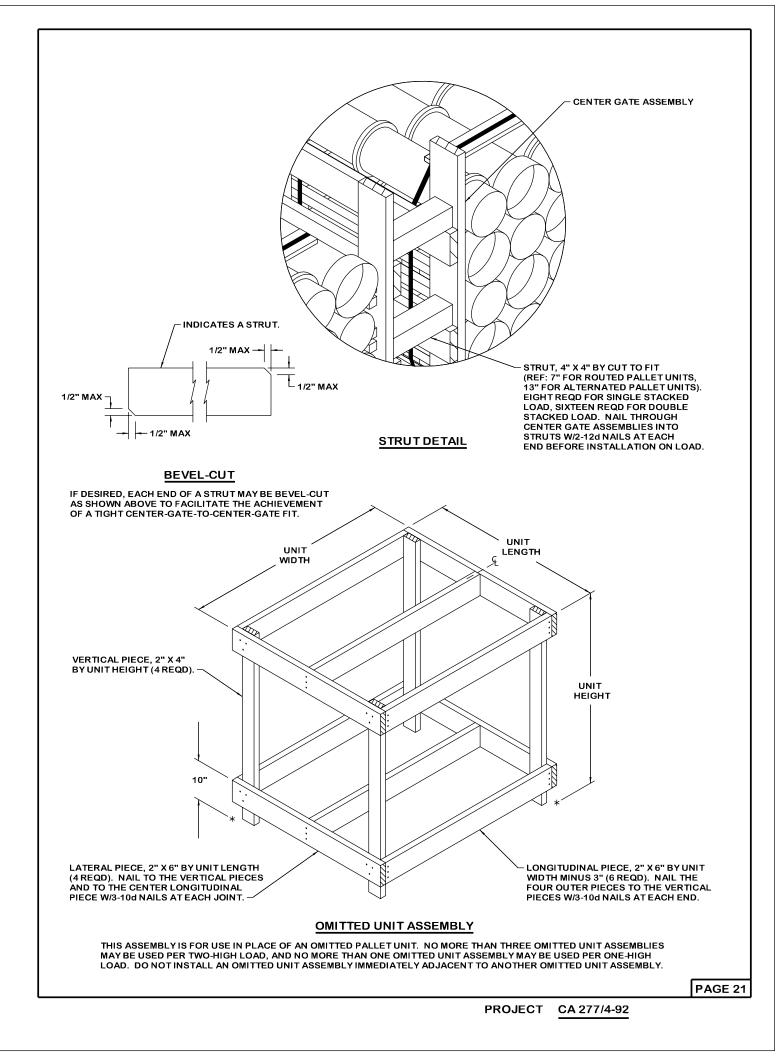












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