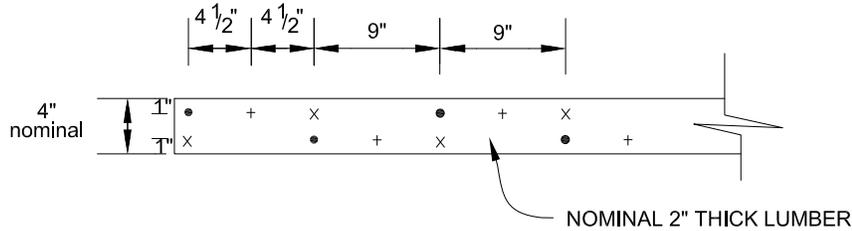


MINIMUM NAIL PENETRATION 2.5 LAMINATIONS. USE 20d (min) GALVANIZED COMMON OR THREADED HARDENED STEEL NAILS. REDUCE NAIL SPACING TO 7 INCHES WHEN USING NAILS WITH A DIAMETER LESS THAN 0.177 INCHES.

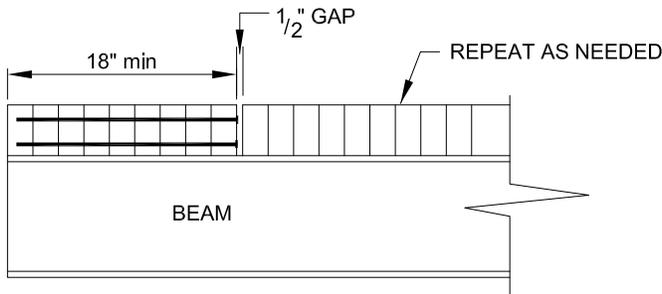


- INDICATES NAILS IN FIRST LAMINATIONS
- x INDICATES NAILS IN SECOND LAMINATIONS
- + INDICATES NAILS IN THIRD LAMINATIONS

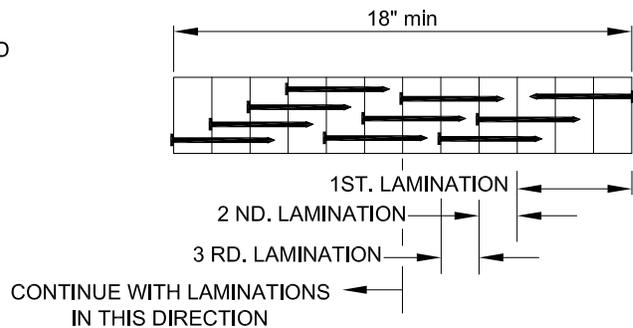
THE DECK MATERIAL SHALL BE SOUTHERN YELLOW PINE OR EQUAL MEETING AWPA UC3B TREATMENT LEVEL.

USE C-CLIPS TO ATTACH THE DECK TO THE STEEL BEAMS. FOLLOW MANUFACTURERS SPECIFICATIONS FOR INSTALLATION.

THE MINIMUM LENGTH OF A NAIL LAMINATED SECTION SHALL BE 18 INCHES.



THE DECK INSTALLS DIRECTLY TO THE BEAM. A NAILER PLATE IS NOT REQUIRED.



BILL OF MATERIALS FOR NAIL-LAMINATED DECK - TB1 AND TB3*			
	CLEAR SPAN LENGTH = 20'	CLEAR SPAN LENGTH = 30'	CLEAR SPAN LENGTH = 40'
DECK (10'X2"X4" NOMINAL BOARDS)	218 EA.	288 EA.	373 EA.
NAILS **	2500 EA.	3400 EA.	4300 EA.
C-CLIPS WITH CARRIAGE BOLT	38 EA.	50 EA.	64 EA.

BILL OF MATERIALS FOR NAIL-LAMINATED DECK - TB2*			
	CLEAR SPAN LENGTH = 20'	CLEAR SPAN LENGTH = 30'	CLEAR SPAN LENGTH = 40'
DECK (14'X2"X4" NOMINAL BOARDS)	218 EA.	288 EA.	373 EA.
NAILS **	3600 EA.	5000 EA.	6200 EA.
C-CLIPS WITH CARRIAGE BOLT	38 EA.	50 EA.	64 EA.

* FOR OTHER BRIDGE COMPONENTS NOT LISTED (I-BEAMS, CONCRETE, LATERAL BRACING, CURBS, ETC.), SEE BILL OF MATERIALS FOR NON-NAIL LAMINATED DECKS FOR TB1, TB2 AND TB3. DOES NOT INCLUDE STREAM BANK RIPRAP OR GRAVEL APPROACH.

** INCREASE NAIL QUANTITIES BY APPROXIMATELY 15% WHEN USING A 7-INCH NAIL SPACING.



TIMBER BRIDGE - NAIL LAMINATED DECK DESIGN

Designed _____ Date _____
 Drawn _____
 Checked _____
 Approved _____

File Name
DETAIL NO. TB-5D
 Drawing Name
AL-ENG-578-07
 ISSUE DATE: 8/12
 Sheet of