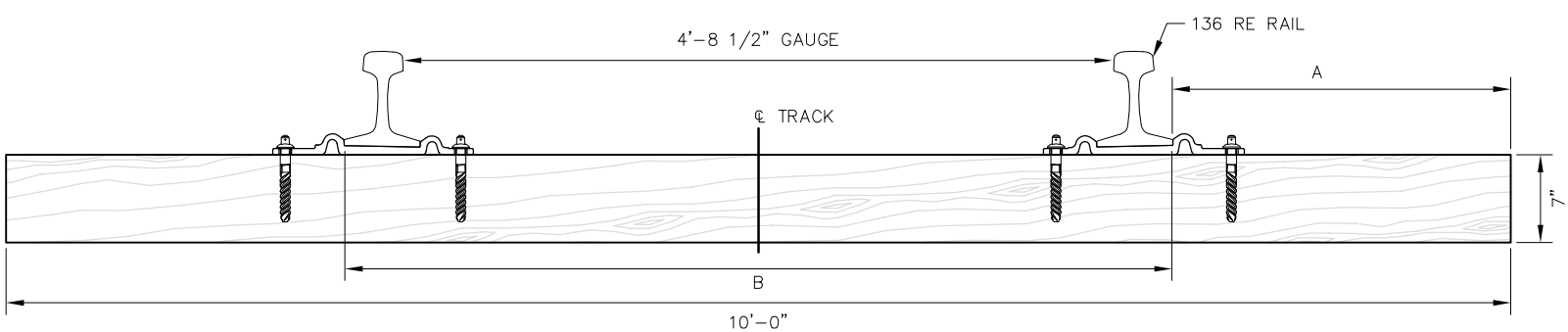
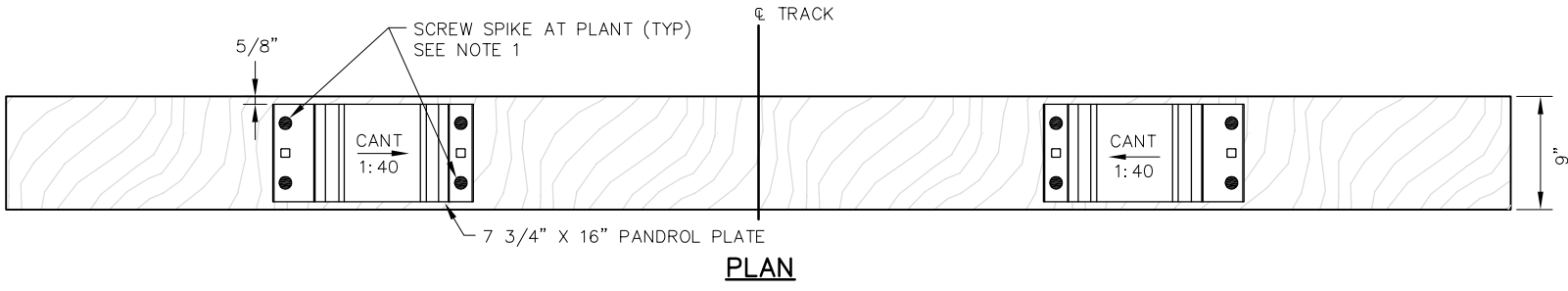


ELEVATION
STANDARD TIMBER TIE WITH 14" PLATE (FOR CUT SPIKES)
 (FOR MAINTENANCE REFERENCE ONLY, NOT FOR NEW CONSTRUCTION)



ELEVATION
10' LONG TIMBER TIE WITH 16" PLATE (FOR SCREW SPIKES)
 (FOR TRANSITION ZONE)

TYPE OF TIE	A	B
7" X 9" X 9' STANDARD TIMBER TIE	1'-9"	65 3/4"
7" X 9" X 10' TRANSITION/GRADE CROSSING TIE	2'-3"	65 3/4"

BILL OF MATERIALS - 9' TIES W/ 14" PLATES				
MATERIAL	UNIT	QUANTITY	WEIGHT	SUBTOTAL
CUT SPIKES, 5/8" X 6"	EACH	4	0.85 LBS.	3.40
TIES, 7" X 9" X 9'	EACH	1	200.00 LBS.	200.00
TIE PLATES 8" X 14"	EACH	2	22.30 LBS.	44.60
			TOTAL	248.00

BILL OF MATERIALS - 10' TIES W/ 16" PANDROL PLATES				
MATERIAL	UNIT	QUANTITY	WEIGHT	SUBTOTAL
SCREW SPIKES, 15/16" X 6"	EACH	4	1.1 LBS.	4.40
TIES, 7" X 9" X 10'	EACH	1	222.00 LBS.	222.00
TIE PLATES 7 3/4" X 16"	EACH	2	25.30 LBS.	50.60
			TOTAL	277.00

- NOTES:**
- BEFORE PLACING TIE PLATE ON TIE, TIE SUPPLIER SHALL ORIENT TIE WITH HEARTSIDE FACING DOWN. INSTALL THE TWO MOST OUTER SPIKES IN EACH OF THE 14" PLATES AND ALL FOUR SCREW SPIKES ON EACH OF THE PANDROL PLATES
 - NAIL CONFIGURATION FOR END PLATES SHALL BE DEEP GROVED ANTI-SPLIT TOOTH
 - END PLATES SHALL BE 6" X 7" WITH MINIMUM OF 180 TEETH PER PLATE
 - FOR TIE PLATES, PANDROL PLATES, AND FASTENING DETAILS, SEE SD-2221 AND SD-2222
 - PANDROL PLATE INSTALLATION IS FOR MAINTENANCE OF STANDARD TIES, AND FOR AREAS IN TRACK TRANSITION ZONES
 - ALL DIMENSIONS SHOWN ARE FOR USE WITH 136 RE RAIL

REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:




ENGINEERING MANAGER DEPUTY DIRECTOR OF ENGINEERING



STANDARD DRAWINGS

TRACK
RAILS, TIES, AND FASTENERS
PRE-PLATED TIMBER
STANDARD & TRANSITION CROSS TIES

CADD FILE NO.: SD-2213	
REV 0	DATE 093011
TRACK	
STANDARD NO.: SD-2213	