

0	FIELD SIDE	•	FIELD SIDE
•	GAGE SIDE	 0	GAGE SIDE

TANGENT TRACK AND CURVES UP TO 1 DEGREE.

ALL CURVES OF 1 DEGREE AND OVER.

COMPOSITE TIE SPIKING PATTERNS

MAIN TRACK AND CTC SIDINGS LESS THAN 40 MPH				
APPLICATION	PATTERN			
TANGENTS AND CURVES LESS THAN 1° 30'	1			
CURVES AT LEAST 1° 30' BUT LESS THAN 4°	3			
CURVES AT LEAST 4° BUT LESS THAN 8°	4			
CURVES 8° OR MORE AND TURNOUTS	5			

MAIN TRACK AND CTC SIDINGS 40 MPH OR MORE				
APPLICATION	PATTERN			
TANGENTS AND CURVES LESS THAN 30'	2			
CURVES AT LEAST 30' BUT LESS THAN 1° 30'	3			
CURVES AT LEAST 1° 30' BUT LESS THAN 4°	4			
CURVES 4° OR MORE AND TURNOUTS	5			

YARD AND INDUSTRY TRACKS				
APPLICATION	PATTERN			
TANGENTS AND CURVES LESS THAN 4°	1			
CURVES AT LEAST 4° BUT LESS THAN 8°	3			
CURVES 8° OR MORE	4			
TURNOUTS	5			

NOTES

- THE SPIKE PATTERNS SHOWN ARE FOR MAIN TRACKS, BRANCH LINE TRACKS, HEAVY TONNAGE SPURS, AND C.T.C. SIDINGS WITH 13" AND LONGER PLATES.
- ANY SPIKING PATTERN OTHER THAN WHAT IS SHOWN ON THIS DRAWING ARE TO BE APPROVED BY THE CHIEF ENGINEER.
- 3. WHEN SPIKING TURNOUTS, USE SPIKING PATTERN NO. 5 ON:
 - ALL SWITCH TIES
 - 24 TIES AHEAD OF SWITCH POINTS
 - 24 TIES BEHIND THE LAST LONG SWITCH TIE ON THE MAINLINE SIDE OF THE SWITCH
 - DIVERGING SIDE OF THE TURNOUT FROM THE LAST LONG SWITCH TIE THROUGH THE REVERSE CURVE AND FOR 24 TIES ONTO TANGENT TRACK FULLY SPIKE ALL SWITCH, FROG AND GUARD RAIL PLATES IN WOOD TURNOUTS.

UNION PACIFIC RAILROAD ENGINEERING STANDARDS

SPIKING PATTERN



0453G

STD DWG **0453G**