

subballast and the bottom of the wooden ties. Fill in the space between the ties and to a point 6" outside the end of the tie. Slope the ballast on a 3:1 slope. Ballast to be crushed stone with gradation as percent passing by weight 1" 100%, 3/4" 90-100%, 1/2" 20-55%, 3/8" 0-10%, No. 4 0-5%, No. 5 0-1%, No. 200 0-1%.

**D. Miscellaneous**

1. Experienced personnel skilled in railroad track construction shall supervise track laying and surfacing.
2. Ties shall be uniformly spaced at 24" center to center of tie. Ties shall be laid at right angles to the rail and at least one will be located at the joint location.
3. The bottom of the rail, the tie plate and the wearing surface of the tie shall be cleaned before the rail is laid.
4. Rails shall be laid to ensure good alignment, and the rail ends must be brought squarely together against expansion shims and shall be bolted before spiking.
5. Spikes shall be started vertically and square and be driven straight with full bearing against the base of the rail. Straightening with maul or spikes crooked will not be permitted. Spikes started crooked shall be pulled, the holes plugged and spikes redriven.