Block diagram for Bi-directional and Tumble down

- **Red and Yellow signal wires between controllers**
- **Block detect (BD) active to next block** – each block sends its block occupied signal to its neighbor. This is used to tell the direction of the train – which block did it come from.
- **Tumble down (TD) signal** – sent when the train enters the first block after siding. Only the blocks in the middle need this circuit. Tumble down direction is sent in the same direction of train travel to force red on all signals facing the other direction for any oncoming train from the next passing siding.