NOTES ON BRIDGES:
1. Transition Ties (either through ties) are used to bridge high modulus track through bridge deck and the main line through transition zone. See [202-1213] and [203-1274] for ties in transition zone.
2. HMAC underlay is specified at approaches to minimize local settlement due to difference in track modulus.
3. To further minimize local settlement at approaches, ballast depth at approaches shall not be more than 18".
4. Caltrain will determine type of Ties on Bridge during design.
5. Tie, pad, waterproofing, and deck drainage not shown for clarity.
6. HMAC will be required at locations where the distance between HMAC underlay and tracks is less than 200 ft measured longitudinally along the track.

AT STATIONS (CENTER ISLAND PLATFORM):
- 8" HMAC underlay (Typ)
- Trench drain
- 8" ballast below tie (Typ)
- Center platform
- Outboard platform
- Concrete tie (Typ)
- 1-2" (Min)
- Underdrain

AT STATIONS (OUTBOARD PLATFORM):
- 8" HMAC underlay (Typ)
- Center tie
- Concrete tie (Typ)
- 1-2" (Min)
- Underdrain

AT TURNOUTS:
- 8" HMAC underlay (Typ)
- Trench drain

At transitions:
- 6" HMAC underlay (Typ)
- Trench drain
- 8" ballast (Typ) to extend 10' beyond limits of platform

NOTES:
1. 8" thick HMAC underlay is required at locations:
   - Bridge approaches
   - At-grade crossovers
   - Station heads
   - Poor subgrade
2. See drawings for details on HMAC underlay for at-grade crossings.