**CONCRETE**

**Reinforced**

- $f'_{c} = 3600$ psi
- Varied surcharge on level ground surface
- 1:1 distribution down and outward distributed over 10 feet at top of the barrier
- 54 kip maximum traffic impact loading evenly

**Load Combinations and Limit States**

- **Strength I**
  - $Q = 1.00DC + 1.00EV + 1.00EH + 1.00CT$
- **Strength II**
  - $Q = aDC + BEV + 1.50EH + 1.35LS + 0.40WS$
- **Strength III**
  - $Q = 1.00DC + 1.00EV + 1.00EH + 1.00EQD + 1.00EQE$
- **Strength V**
  - $Q = 1.25DC + 1.35EV + 0.90EH + 1.75LS$ (for piles at heel)
- **Service I**
  - $Q = 1.00DC + 1.00EV + 1.00EH + 1.00WS$
- **Service II**
  - $Q = 1.00DC + 1.00EV + 1.00EH + 1.00LS + 0.30WS$

**NOTES:**

- Only @ bars shown above @ bars indicate distance from top of footing to upper end of @ bars, see table.
- Indicates 2 bar bundle.

**OPTIONAL DETAIL A**

For details not shown, see "DETAIL A"