

**Design Data**

Design: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments

- **NS**: 33 psf on Sound wall
- **LS**: Varied surcharge on level ground surface
- **EDE**: Mononobe-Oka Method
  - k0 = 0.3
- **Soils**:
  - γ = 34'
  - γ = 120 psf
- **Reinforced Concrete**:
  - fy = 60,000 psi
  - fck = 0.3

**Load Combinations and Limit States**

- Service I: Q = 1.00DC + 1.00EV + 1.00EH + 1.00WS + Td
- Service II: Q = 1.00DC + 1.00EV + 1.00EH + 1.00WS + 0.40WS + Td
- Service III: Q = 1.00DC + 1.00EV + 1.00EH + 1.00WS + 0.40WS + 0.30WS + Td
- Extreme: Q = 1.00DC + 1.00EV + 1.00EH + 1.00WS + 0.30WS + Td

**Anchor Design Load**

- Design: Q = 1.25 or 0.90, whichever Controls Design
- Strength 7: Q = 1.35 or 1.00, whichever Controls Design
- Strength V: Q = 0.90 or 0.75, whichever Controls Design
- Strengths A & B: Q = 0.40 or 0.30, whichever Controls Design

**Notes**

1. For Sound wall and Retaining wall Architectural finish or texture see Details elsewhere in Project Plans.
2. For details not shown and drainage notes, see Elevation Sheet.
3. Footing cover, 2'-0" minimum.
4. For Sound wall reinforcement details, see "SOUND WALL - MASONRY BLOCK ON RETAINING WALL" sheet.
5. Shift #2 bars and #3 bars as required to clear formed hole for ground anchor.
6. Footing is designed to resist 1.33 Td assuming the maximum anchor spacing shown in the Table.

**Elevation**

No Scale

**Wall Offset**

No Scale

Values for offsetting forms to be determined by the Engineer

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