**Design Notes**

**Design**

AASHTO LRFD Bridge Design Specs, 8th Ed., 2016 California Building Code

**Design Wind Load**

36.5 psf

**Design Seismic Load**

0.57 Dead load

**Design Impact Load**

TL-4

**Reinforced Concrete & Concrete Masonry**

- $f_c = 3600$ psi
- $f_y = 60$ ksi
- $f_m = 2000$ psi
- $f_m = 2500$ psi for high-strength block

**Provide materials to achieve the net compressive strength of concrete masonry unit equal or greater than the specified $f_m$.**

**Notes:**

1. Slope ground at traffic side of barrier to drain. Maximum slope 1:10.


3. For type of block and joint finish, see other sheets.

4. When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2-4 bars @ 16" maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond beams.

5. Horizontal joints shall be roofed concave or may be weathered. Vertical joints shall be tooled concave or may be raked.

6. Minimum wall height shall be $H=16'-2"$. Maximum wall height shall be $H=16'-2"$.

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**Typical Section**

**Section A-A**

**Section B-B**

**Part Elevation**

**Notes:**

- Expansion joints at 96'-0" max centers. See other sheets for locations.
- 4'-0" min bond beam and relief at step.
- Cells with vertical reinf. and bond beams to be filled with grout.
- Expansion joint filler placed in bond block recesses. Size as required for snug fit.
- Block cells
- Lower wall reinf.
- Upper wall reinf.
- Expansion joint filler in concrete barrier.

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**Bridge Standard Details**

**State of California**

**Division of Engineering Services**

**Details No. 1**

**Sound Wall Masonry Block with Barrier on Retaining Wall**

**No Scale**