

Section 12 – Earth Retaining Systems

Vertical Ground Anchor Details No. 1 & 2

XS Sheet Numbers:

xs12-030-1 and xs12-030-2

Description of Component

XS12-030-1 sheet provides details for vertical ground anchor using 270 ksi low relaxation steel strands tendon. XS12-030-2 sheet provides details for vertical ground anchor using 150 ksi high strength bar tendon. Designer should include both sheets into a project plan set.

Standard Drawing Features

The sheets include details of corrosion protection of a ground anchor strand, sequence of anchor grouting, and maximum stress allowed in anchor testing. Sheets allow user to modify unbonded length based on project foundation report.

Design/General Notes

The design is in conformance with AASHTO Bridge Design Specifications 8th edition with California Amendments. The maximum test load is the Factored Test Load (FTL) that is allowed to be applied to the anchor.

Additional Drawings Needed to Complete PS&E

The sheets must be used with other contract plans that includes layout of the ground anchors and associated FTL.

Contract Specifications

Standard Specifications and Standard Special Provisions 46 regarding ground anchors are applicable.

Restrictions on Use of Standard Drawings

None.

Special Considerations

None.