GENERAL NOTES:

All materials and workmanship shall be in accordance with the requirements of the Washington State Department of Transportation/WSDOT Standard Specifications for Roads, Bridges, and Municipal Construction dated 2014, with amendments.

This structure has been designed in accordance with the requirements of the AASHTO LRFD Bridge Design Specifications, 6th Edition and Interim Through 2013. The design live load is a HL-93.

The following parameters were used for the seismic design:

PSD = 0.426 g
90 = 0.890 g
Sa = 0.442 g
Shear Class = 5

All cast-in-place and precast concrete shall be Class 4000.

The backfill behind the abutments may not be placed prior to placement of the superstructure.

All reinforcing steel shall be grade 60. Unless otherwise shown in the plans, concrete cover measured from the face of concrete to the face of any reinforcing steel shall be 2" at the bottom of the footing, 3" at the top of the footing, and 2" at all other locations.

Concrete shall be carefully maintained to prevent impact or Initiate stress in the structure.

The piers shall be driven to an ultimate (nominal) bearing capacity as shown below.

- The resistance factors for the piles are:
  - Lateral Load: 0.6
  - Lifting Load: 0.6

Hollow piles shall conform to AASHTO Specifications D57, Grade L-85 to P-100 piles with single 90° to 6" piles.

Sheet piles shall be FC-32 or equivalent driven to a minimum pile tip elevation of -10 feet with the tip embedded a minimum of 3 feet into the soft/loose soils underlying the liquefiable subsoil soils.

The bridge does not have approach driveways.

The bridge has been designed for a 5% rollerbarcode with waterproof membranes.

14" x 48"

PRECAST CONCRETE SLAB

LOADING: HL-93

LEGEND

- Elevation Sheet
- Plan Sheet
- Section Sheet

REVISIONS

SARGENT

No. REV DATE DESCRIPTION

KITSAP COUNTY DEPT. OF PUBLIC WORKS
614 DIVISION STREET NE-50
PORT ORCHARD, WA 98366
TOLLFREE 800-247-2199 TEL.888-377-6488

5 OF 15

ORSETH ROAD CULVERT REPLACEMENT BRIDGE LAYOUT

Sargent Engineers, Inc.
230 Riviera Lane NW
Sargent, WA 98902
Tel. 360 887-9254 Fax 360 887-9216
Email: info@sargenteng.com

DO NOT SCALE REDUCED SHEETS
DESIGN NOTES

Sheets are designed for H85 live loading and for the following dead loads:
- Concrete dead load of 100 psf
- Specialized dead load of 35 psf (Adjusted to 3 asphalt overlay)

CONSTRUCTION NOTES

1. Lifting enhancements shall be installed in accordance with Section 6-03.03.20 of the standard specifications.
2. All reinforcing steel options shall be 2" O.D. minimum, unless shown otherwise. No splicing of greater longitudinal reinforcing is allowed.
3. No traffic shall be allowed until the heavy load has attained a minimum strength of 4000 psi. Rebarment using a high early strength grout is clear for quicker re-opening of roadway.
REINFORCING NOTES:
1. All reinforcing bars on this sheet shall be ASTM A-31 Grade 60, unless shown otherwise.
2. Contractor shall be responsible for verifying all dimensions & quantities of reinforcing steel. See Section 6-02.02.04 of the Standard Specifications.

BENDING DIAGRAM

All dimensions are not to scale.

* = Dimensions to points of intersection.

DUMMY JOINT DETAIL

DO NOT SCALE REDUCED SHEETS