

**Bridge Memorandum**

**Job No.:** XXXXXXXX  
**County :** XXXXXX

**Bridge No.:** XXXXXX  
**Rte.:** XXXXXX (minor) over XXXXXXX (major)

**Final Layout:** 155 ft. Mechanically Stabilized Earth Type Retaining Wall

**Location:** Under Abutment 1 of Bridge XXXXXX

**Alignment:** Tangent

**Skew:** 27 SEC RA to First Street (Wall Parallel to Rte. XX)

**Loading:** Soil properties for both retained and foundation materials as determined by Project Operations.

**Profile Grade:** Rte. XX

Grade per Bridge Survey Elevation Profiles:

Lt. (NBL) Max surveyed elevation under structure = 968.87 @ CL 1<sup>st</sup> Street

Rt. (SBL) Max surveyed elevation under structure = 968.84 @ CL 1<sup>st</sup> Street

**Profile Grade:** First Street= VPI Sta. 4+60.00 (Elev. 996.84) -4.72 % Ahead, +2.39 % Back, L=510.00'

**Tie Station:** First Street, Sta. 3+65.50 = Front face of wall, Sta. 0+77.50

**Begin Station:** 0+00.00 = Sta. 512+20.00, 84.50' RT. of CL Med Rte. XX

**Traffic Handling:** First Street closed for construction. See traffic control plan for Rte. XX traffic handling.

**Wall alignment:** Based on Rte. XX, Sta. 512+20.00, 84.50' RT of CL Med Rte. XX to Sta. 513+75.00, 84.50' RT of CL Med Rte. XX.

**General Notes:**

Profile grade and stationing for First Street is at CL First Street

Stationing for Rte. XX is at CL Med. Rte. XX.

Profile grade for Rte. XX is 30' left and right of CL Median Rte. XX.

BL for retaining wall is at front face of the wall at the top of the leveling pad.

Stationing for the wall is along BL of wall tied to CL Med. Rte. XX.

No aesthetic concrete stain, form liners used.

Masonry and sacrificial graffiti protection system used.

Fill slope for MSE walls is 2.5:1. (Roadway Item)

Side slope for MSE walls is 3.5:1. (Roadway Item)

Provide slope protection in front of MSE wall adjacent to Rte. XX. (Roadway Item)

District to determine drainage and pavement requirements for wall adjacent to Rte. 71. (Roadway Item)

Provide Type B Gutter behind MSE walls. (Roadway Item)

Provide coping compatible with MSE system used. (Bridge Item)

All excavation required to construct the retaining wall shall be (Roadway Item.)

Bottom of leveling pad is founded on sandstone at elevation 962.00 per geotechnical recommendation.

The select backfill behind the wall shall be Bridge Item.

Construction Clearances: Horizontal = 14' at all times.

District Contact: XXXXXXXXXXX, TPM (XXX) XXX-XXXX

Bridge Division Contact: XXXXXXXX, SPM (XXX) XXX-XXXX

Estimated working days: 10

FY'14 Estimated Construction Cost\*: \$102,000

\* Does not include STIP inflation from Planning (3% compounded annually)

Programmed Bridge STIP amount from FY'14: \$702,000

Bridge \_\_\_\_\_ Date \_\_\_\_\_

Bridge \_\_\_\_\_ Date \_\_\_\_\_

District \_\_\_\_\_ Date \_\_\_\_\_

District \_\_\_\_\_ Date \_\_\_\_\_