

Bridge Memorandum

Job No.: JXXXXXX
County: XXXXX

Bridge No.: A1111
Route: AAA (minor) over BBB (major)

Final Layout: (92'-92') Prestressed Concrete I-Girder Spans (Type 4)
Roadway Width: 30'-0" (symmetrical) plus 16" Safety Barrier Curbs
Alignment: Tangent
Profile Grade: Route AAA: VPI Sta. 4+60.00 (Elev. 996.84), -4.72%, Ahead, +2.39% Back, L=510.00'
Route BBB: See contracted profile and cross section sheets in bridge survey.
Skew: Squared (skew of 0° 0' 23" ignored)
Tie Station: Sta. 4+50.00 @ Route AAA = Sta. 513+00.09 @ Route BBB = @ Bent 2
Loading: HL-93
Existing Bridge: LXXXXX to be removed
Beginning Station: Sta. 3+57.08 ± @ Route AAA at fill face Bent 1
Fill Exception: Sta. 3+57.00 ± to Sta. 5+43.00 ±
Traffic Handling: Structure to be closed during construction. See roadway plans for traffic control.

General Notes:

Structure built in conjunction MSE walls A1112 and A1113 at End Bents 1 and 3 respectively.
Use integral pile cap end bents with 10-foot wings.
Use open round column intermediate bent on drilled shafts.
Stationing and profile grade for Route AAA and centerline of structure are located along centerline Route AAA.
Profile grade for Route BBB is located 30 feet left and right of centerline median Route BBB.
Stationing for Route BBB is located along centerline median Route BBB.
Route BBB vertical clearance to structure shall be 16'-6" minimum over roadways including shoulders.
Route BBB horizontal clearance from edge of traveled ways shall be 10'-0" minimum to barrier at end bents and 2'-0" minimum to barrier at median (clearance is the shoulders).
Vertical clearance for Route BBB traffic during construction shall be 15'-6" minimum inside a 24'-0" wide horizontal opening over the roadway in each direction.
Route AAA: Present AADT (2017) = 6225; Design AADT (2038) = 7595; T = 13%; V = 50 mph
Route BBB: Present AADT (2017) = 33,560; Design AADT (2038) = 40,950; T = 35%; V = 70 mph

Items not Provided:

Conduit, fencing, lighting, utility and sign supports, or sidewalks
Color stain or form liners

Bridge Items Provided:

20-foot long bridge approach slabs (minor road)
Slab drains as required

Roadway Items Provided:

2:1 end slopes (normal) with 2-foot Type 2 rock blanket with permanent erosion control geotextile
Guardrail at outside shoulders and concrete barrier at median of Route BBB
Utilities relocated as required for construction
Right-of-way as required for construction

Bridge Contact: John Smith, Structural Project Manager, (###) ###-####
District Contact: Jane Doe, Transportation Project Manager, (###) ###-####

<hr/> <small>Prepared by: Eddie Punch-Clock, Bridge Loc. and Layout Designer</small>	<hr/> <small>Date</small>	Estimated working/calendar days: 50/75 days
<hr/> <small>Bridge: John Smith, Structural Project Manager</small>	<hr/> <small>Date</small>	FY' 18 Estimated Construction Cost*: \$1,211,000
<hr/> <small>District: Jane Doe, Transportation Project Manager</small>	<hr/> <small>Date</small>	* Does not include STIP Inflation from Planning (3% inflation compounded annually).
<hr/> <small>District: Joe P. Sector, District Bridge Engineer</small>	<hr/> <small>Date</small>	Programmed Bridge STIP Amount: \$1,774,000