

BRIDGE MEMORANDUM

Job No: XXXXXXXX
XXXXXXXX County

Bridge Number: XXXXX
Rte. XX (Minor) over XXXXXX RR

Final Layout: (72' - 130' - 72') Prestressed Concrete NU53 Girder Spans

Roadway Width: 36'-0" (symmetrical) between 16" safety barrier curbs

Alignment: Tangent

Skew: 45°-00'-00" Left Advance

Loading: HL-93

Profile Grade: 912.00' long vertical curve with +4.00% back grade and -4.00% ahead grade, with VPI Elev. 890.80 at VPI Sta. 73+59.00

Traffic: A.A.D.T. in 2015 = 5,780; A.A.D.T. in 2035 = 6,160; Truck = 10%, V = 55 MPH

Traffic Handling: This is a realignment of Rte. XX, so traffic will be maintained on existing Rte. XX during construction of this bridge.

Existing Bridge: XXXX (near the new bridge location) is a railroad bridge over Rte. 19 that will be removed by others.

Tie Station: CL Bent No. 2 = Sta. 72+94.00 Rte. XX

Fill Exception: Sta. 72+19.53 \pm to Sta. 74+98.47 \pm

General Notes:

- Profile grade and stationing are located at CL Rte. XX.
- Sta. 73+48.95 CL Rte. XX = Sta. 4221+88.64 CL Existing XXXXXXXXX Railway
- No slab drains in bridge deck will be provided.
- Concrete pile cap integral end bents with 3'-6" (min.) wide beam and 14'-0" long wings will be provided.
- Int. Bents shall be designed for addition of collision walls in the future with a top of wall elev. = 863.00 & bottom of wall elev. = 845.00. (Cost of collision walls = \$133,000, not included below)
- End fills shall be 2:1 slope (normal to end bents) of rock fill (Roadway Item).
- Minimum final vertical clearance = 23'-0" above maximum top of rail elevation of 852.63
- Const. clearances: vert. = 21'-0" to top of rail; horiz. = 24'-0" wide opening centered on CL railway
- Provide right of way as required for construction (Roadway Item).
- Relocate all utilities as required for construction (Roadway Item).
- No lighting, utility supports or sidewalks will be included in the final plans for this bridge.
- Bridge Contact: XXXX XXXXXX, Structural Project Manager: (XXX) XXX-XXXX
- District Contact: XXXX XXXXXX, Transportation Project Manager: (XXX) XXX-XXXX

Bridge: _____ (Sign & Date) FY'15 Estimated Bridge Const. Cost = \$1,194,000
 Title (Does not include STIP inflation from planning (3% compounded annually))

Bridge: _____ (Sign & Date)
 Title

District: _____ (Sign & Date) Programmed Bridge STIP Amount = \$995,000
 _____ (Print)

District: _____ (Sign & Date) Estimated Working Days = 70
 _____ (Print) Estimated Calendar Days = 105