

Bench Mark: Chiseled "□" on NE wingwall of S.N. 094-0002. Elev. 626.24.

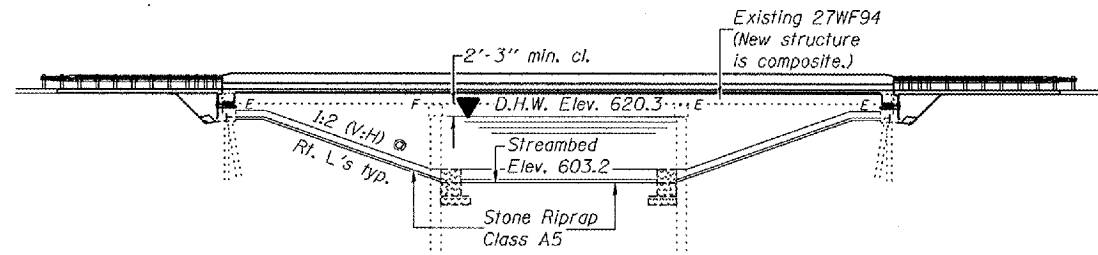
Existing Structure: S.N. 094-0002 built in 1954 as S.B.I. Route 3, Section 28-BR at Station 829+24.00.  
Structure consists of 3 span reinforced concrete deck on steel WF beams supported on spill-thru pile bent abutments and open concrete pile bent piers. 125'-9" back-to-back abutments, 34'-4" out-to-out deck. Concrete deck to be removed and replaced using Stage Construction.

No salvage

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO. 1
F.A.P. 310	28BR-1	WARREN	97	49	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #88798



ELEVATION

STATION 829+24.00  
REBUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. RTE. 310 - SECTION 28BR-1  
LOADING HS20-44  
STR. NO. 094-0002

NAME PLATE  
See Std. 515001

Note:  
The existing name plate is to be cleaned and relocated next to new name plate. Cost is included with Name Plates.

GENERAL NOTES

No field welding is permitted except as specified in the contract documents. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions. Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by an individual acceptable to the Engineer. Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

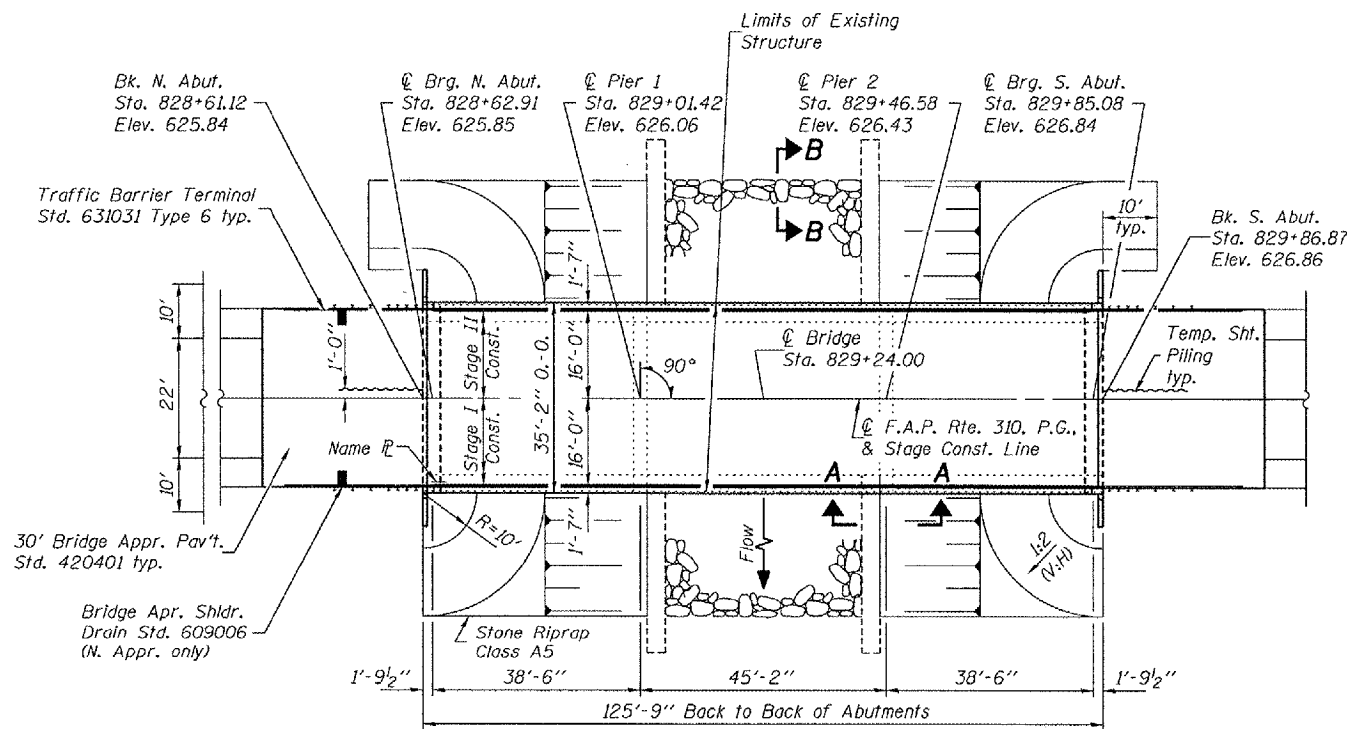
Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Cleaning and field painting of structural steel shall be done under a separate painting contract.

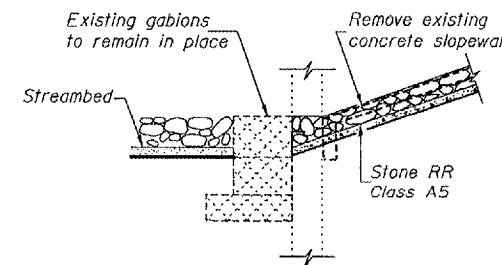
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

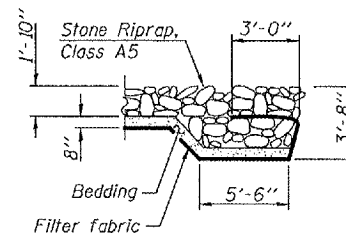
All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M300, Type 1.



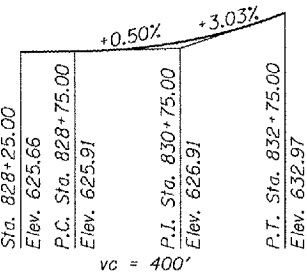
PLAN



SECTION A-A



SECTION B-B



PROFILE GRADE  
(along centerline roadway)

DESIGNED	Tom Kuntz
CHECKED	Alan Johnson
DRAWN	AMC Amber M. Seiber
CHECKED	TJK/AMT

September 4, 2007  
EXAMINED: Thomas Douglas  
PASSED: Robert E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES  
STATE OF ILLINOIS  
081-004625  
EXPIRES 11-30-2008

WATERWAY INFORMATION

Drainage Area = 35.10 Sq. Mi. Low Grade Elev. 624.04' @ Sta. 825+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	50	5573	728	728	617.8	0.2	0.2	618.0	618.0	
Base	100	6328	1058	1058	620.3	0.5	0.5	620.8	620.8	
Overtopping	-	-	-	-	-	-	-	-	-	
Max. Calc.	500	8254	1237	1237	622.7	0.9	0.9	623.6	623.6	

LOADING HS20-44 (New Const.)

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS (New Const.)

1996 AASHTO with 1997 thru 2002 Interims

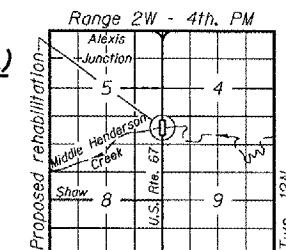
DESIGN STRESSES

FIELD UNITS (New Construction)

f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 3.6%  
Site Coefficient (S) = 1.2



LOCATION SKETCH

GENERAL PLAN  
U.S. ROUTE 67 OVER  
MIDDLE HENDERSON CREEK  
F.A.P. ROUTE 310 - SECTION 28BR-1  
WARREN COUNTY  
STATION 829+24.00  
STRUCTURE NO. 094-0002