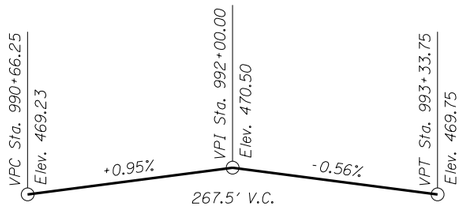
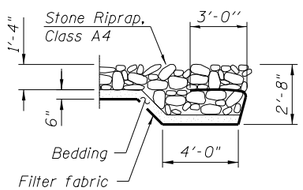


PROFILE GRADE

(Along ℄ Roadway)



SECTION A-A

STATION 992+03.00
BUILT 20___ BY
STATE OF ILLINOIS
F.A.P. RT. 614 SEC. 144(B-4)
LOADING HS 20-44
STR. NO. 009-2511

LETTERING FOR NAME PLATE

See Std. 515001

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

LOADING HS-20-44

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

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	457.35	457.15

WATERWAY INFORMATION

Drainage Area = 52 sq. mi.

Existing Low Grade Elev. = 468.1 @ Sta. 995+90.27
Proposed Low Grade Elev. = 468.1 @ Sta. 995+90.27

Flood	Freq. Yr.	Discharge (cfs)	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Bridge	10	4107	910	910	463.7	0.0	0.0	463.7	463.7
Box		183	93	93					
Design Bridge	50	6412	1061	1061	465.4	0.2	0.2	465.5	465.5
Box		508	133	133					
Base Bridge	100	7459	1102	1102	465.8	0.3	0.3	466.1	466.1
Box		641	145	145					
Overtopping	>500								
Max. Bridge	500	10081	1102	1102	466.9	0.7	0.7	467.6	467.6
Calc. Box		919	168	168					

INDEX OF SHEETS

1. General Plan
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
5. Culvert Plan
6. Culvert Details
7. Bar Splicer Assembly and Mechanical Splicer Details
8.-9. Soil Boring Logs

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703