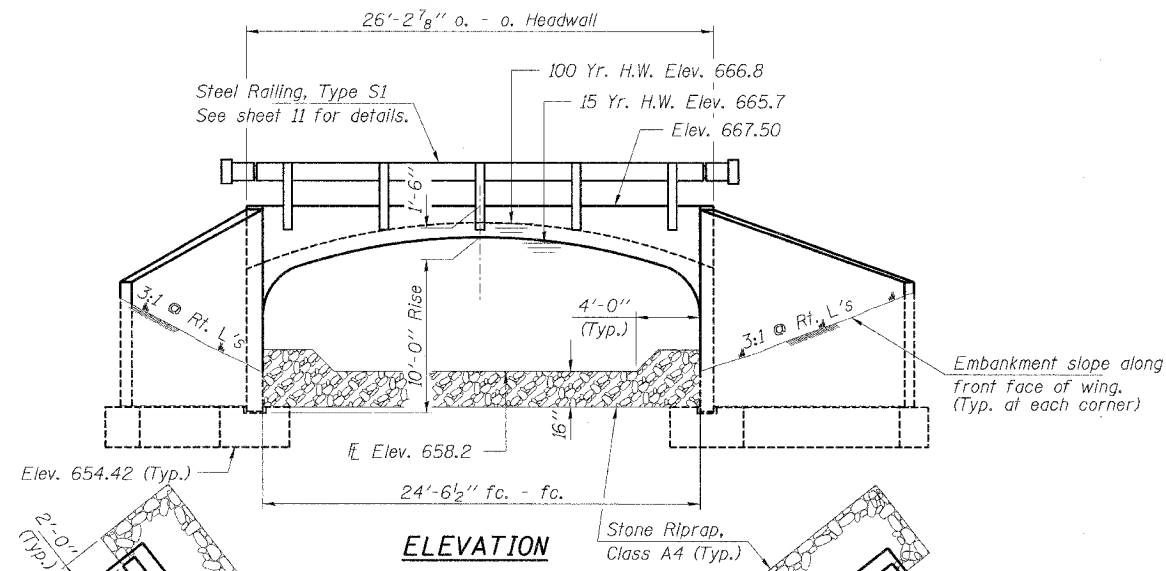


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 158	03-05123-00-BR	MOULTRIE	13	8
FED. ROAD DIST. NO.		ILL. DIST. PROJECT	CONTRACT NO. 91318	

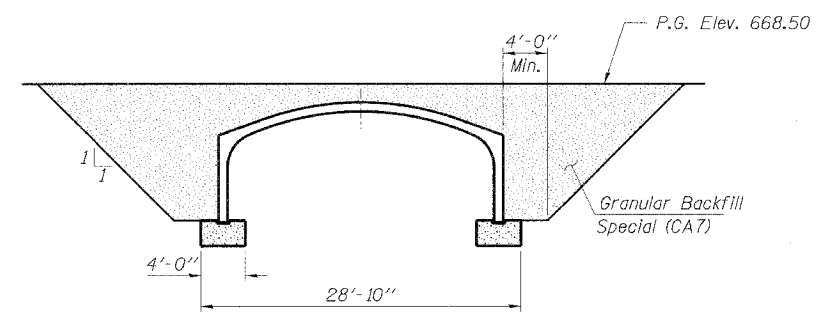


**GENERAL NOTES**

For backfilling procedures see Special Provisions and Backfill Detail. Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322, Grade 60. It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be incidental to Three Sided Precast Concrete Structure 24'x10'. The precast concrete bridge system shall match the style, dimensions and hydraulic opening as shown herein or shall receive approval from the Engineer before use. All Excavation required to construct the footings shall be included in the cost of those items and no additional compensation shall be allowed. See sheets 12 & 13 for borings.

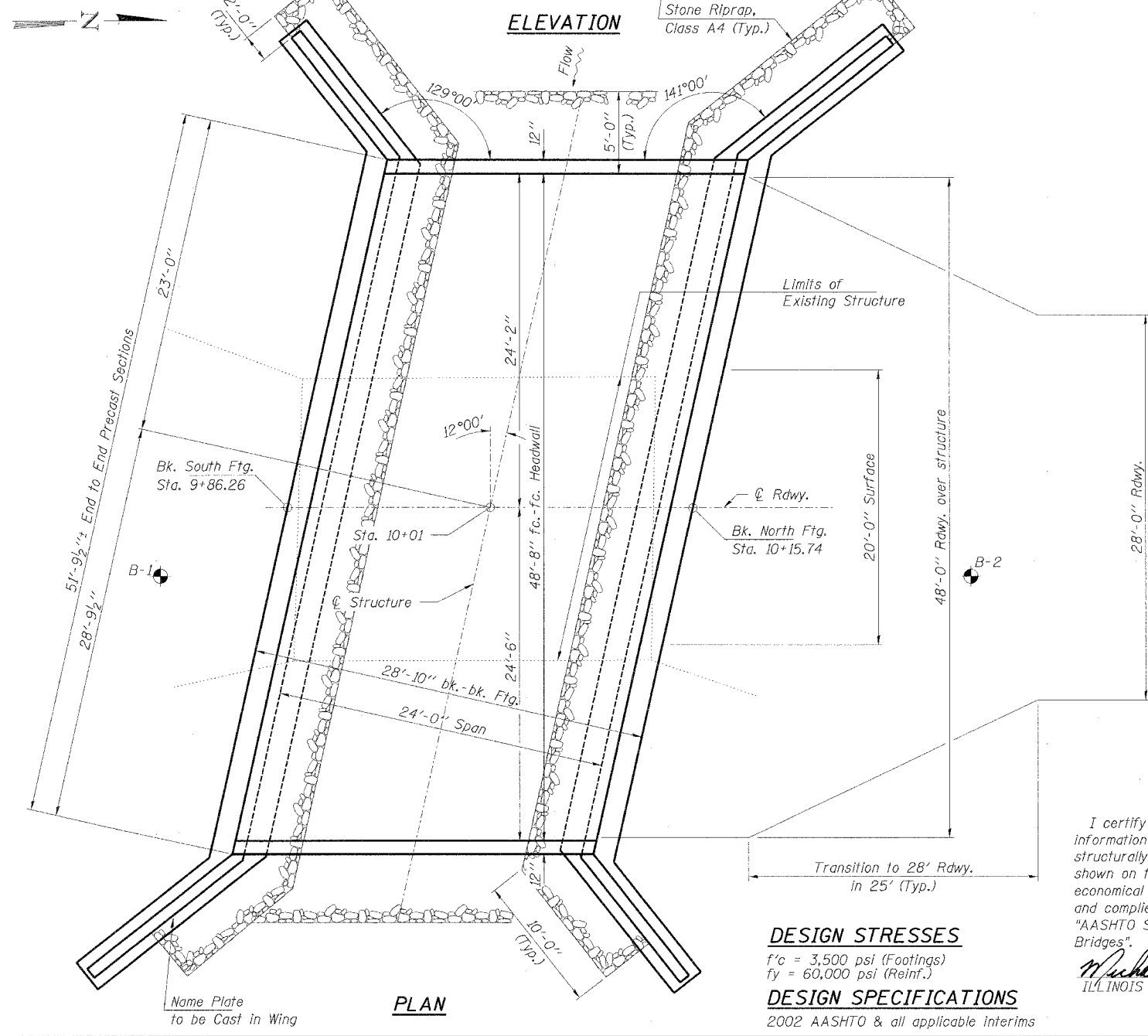
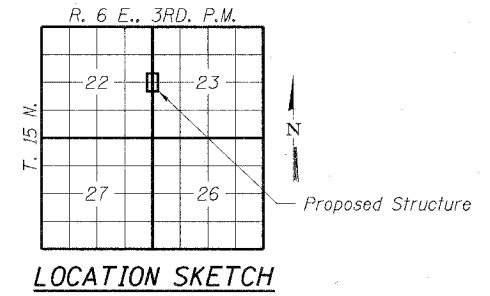
BUILT 200\_ BY  
LOWE ROAD DISTRICT  
MOULTRIE COUNTY  
SEC. 03-05123-00-BR  
PROJ. BR 05-0139 (50)  
STR. NO. 070-4533  
LOADING HS 20

**NAME PLATE**  
See Std. 515001



**BACKFILL DETAIL**

At Rt. angles to  $\bar{C}$  Structure  
Backfill Detail showing limits of pay quantity  
Porous Granular Backfill, Special shall extend the full width of the structure to wingwalls. The Contractor shall place cohesive clay material at each end of the Wings to act as a barrier to erosion of the backfill material.



**WATERWAY INFORMATION**

Drainage Area = 2.7 Sq. Mi. Low Grade Elev. 666.4 @ Sta. 12+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	15	480	140	155	665.4	0.4	0.3	665.8	665.7
Base	100	750	140	160	666.1	0.9	0.7	667.0	666.8
Overtopping									
Max. Calc.	500	960	140	160	666.2	1.1	1.1	667.3	667.3

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Three Sided Precast Concrete Structure 24'x10'	Foot	52
Porous Granular Backfill, Special	Ton	1,155
Concrete Structures	Cu. Yd.	34.0
Reinforcement Bars	Pound	2,820
Stone Riprap, Class A4	Ton	145
Steel Railing, Type S1	Foot	50

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".

*Michael G. Berry* 11/02/04  
ILLINOIS STRUCTURAL NO. 4622



**DESIGN STRESSES**

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

**DESIGN SPECIFICATIONS**

2002 AASHTO & all applicable Interims

**HLR**  
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P.O. Box 1036  
DuQuoin, Illinois 62832  
618-790-4637  
DESIGNED: T.P.L. CHECKED: M.C.B. DRAWN: D.T.M.

**GENERAL PLAN AND ELEVATION**  
SECTION 03-05123-00-BR  
LOWE ROAD DISTRICT  
MOULTRIE COUNTY  
STATION 10+01