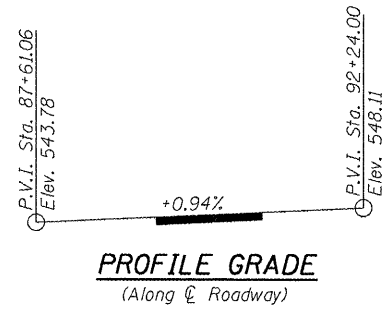
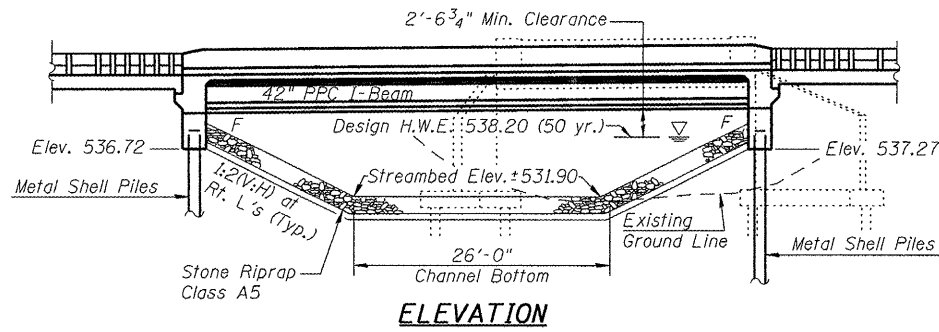


B.M. Chiseled "□" on S.W. Wingwall of Existing Structure 090-0040, Elev. 544.68.

Existing Structure: S.N. 090-0040 Built in 1927. Single span R.C. Slab on closed R.C. Abutments, fixed at both ends (Top & Bottom Restrained). The Structure is 40'-3" wide between railings and spans 30'-3" back to back abutments with 30° skew. Structure is to be removed and replaced in stages. The road shall remain open to two lanes of traffic at all times by utilizing stage construction. No salvage.

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAU 6757 (US 150)	(105B) BR-3	Tazewell	133	69
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
Contract #68086				



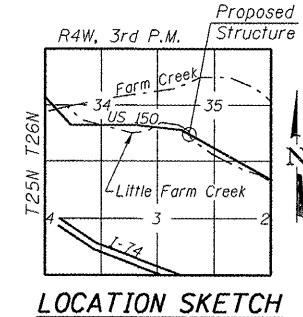
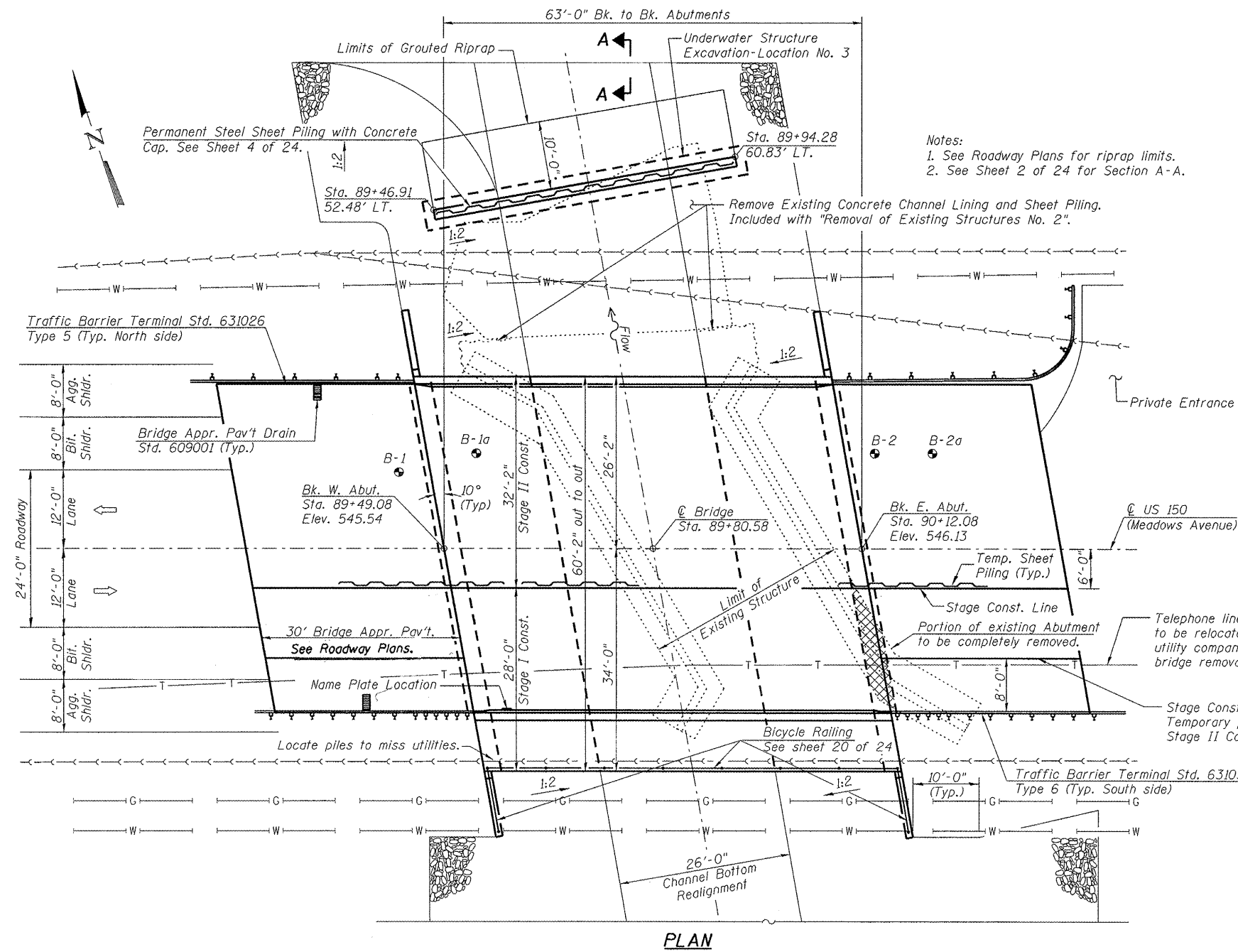
**WATERWAY INFORMATION**

Drainage Area = 2.78 Sq Mi Low Grade Elev. 542.8 @ Sta. 86+50

Flood	Freq. Yr.	Q	Opening	Natural	Head - Ft.	Headwater El.
		C.F.S.	Sq. Ft.	H.W.E.	Exist. Prop.	Exist. Prop.
Design	50	1530	128	538.2	2.4	541.2
Base	100	1790	137	538.6	2.8	541.6
Overtopping	-	-	-	-	-	-
Max. Calc.	500	2450	152	539.3	4.1	543.4

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (feet)	W. Abut.	E. Abut.
	536.72	537.27

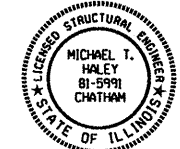


**INDEX OF SHEETS**

1. General Plan
2. General Notes & Details
3. Stage Construction Details
4. Drop Structure Details
5. Deck Elevations-1
6. Deck Elevations-2
7. Approach Pavement Elevations
8. Superstructure
9. Superstructure Details
10. Concrete End Diaphragms
11. Framing Plan
12. PPC I-Beam Details-1
13. PPC I-Beam Details-2
14. West Abutment
15. East Abutment
16. Steel Railing (Temporary)
17. Temporary Concrete Barrier
18. Bar Splicer Assembly Details
19. Metal Shell Pile Details
20. Bicycle Railing Details
21. Soil Borings-1
22. Soil Borings-2
23. Soil Borings-3
24. Soil Borings-4

**APPROVED**  
For Structural Adequacy Only

*Ralph E. Anderson (TSD)*  
Engineer of Bridges & Structures



*Michael T. Haley* 11/7/08  
Date  
Michael T. Haley  
Licensed Structural Engineer  
State of Illinois No. 81-5991  
Expires 11/30/2008

**LOADING HS20-44**  
Allow 50 psf for future wearing surface.

**DESIGN SPECIFICATIONS**  
2002 AASHTO Standard Specifications

**DESIGN STRESSES**

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

**PRECAST UNITS**  
f<sub>c</sub> = 6,000 psi  
f<sub>ci</sub> = 5,000 psi  
f<sub>s</sub> = 270,000 psi (1/2" φ Low Relaxation Strands)  
f<sub>si</sub> = 201,960 psi (1/2" φ Low Relaxation Strands)

**SEISMIC DATA**  
Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.042g  
Site Coefficient (S) = 1.5

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GENERAL PLAN**  
**U.S. 150 OVER LITTLE FARM CREEK**  
**F.A.U. ROUTE 6757 SECTION (105B)BR-3**  
**TAZEWELL COUNTY**  
**STA. 89+80.58**  
**S.N. 090-0176**

**REVISIONS**

NAME	DATE

**LIN ENGINEERING, LTD.**  
Consulting Engineers  
Chatham, Illinois

Designed By: RKM  
Checked By: DLS  
Date: 10/07

Drawn By: AJP  
File: 090-0176.DGN

11/7/2008 2:39:54 PM ...\\PSE\Mod\fed\090-0176.dgn