

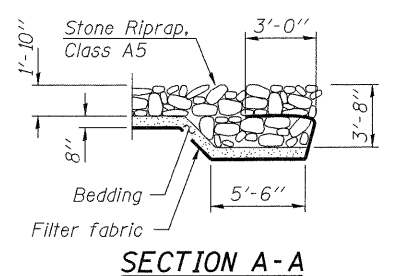
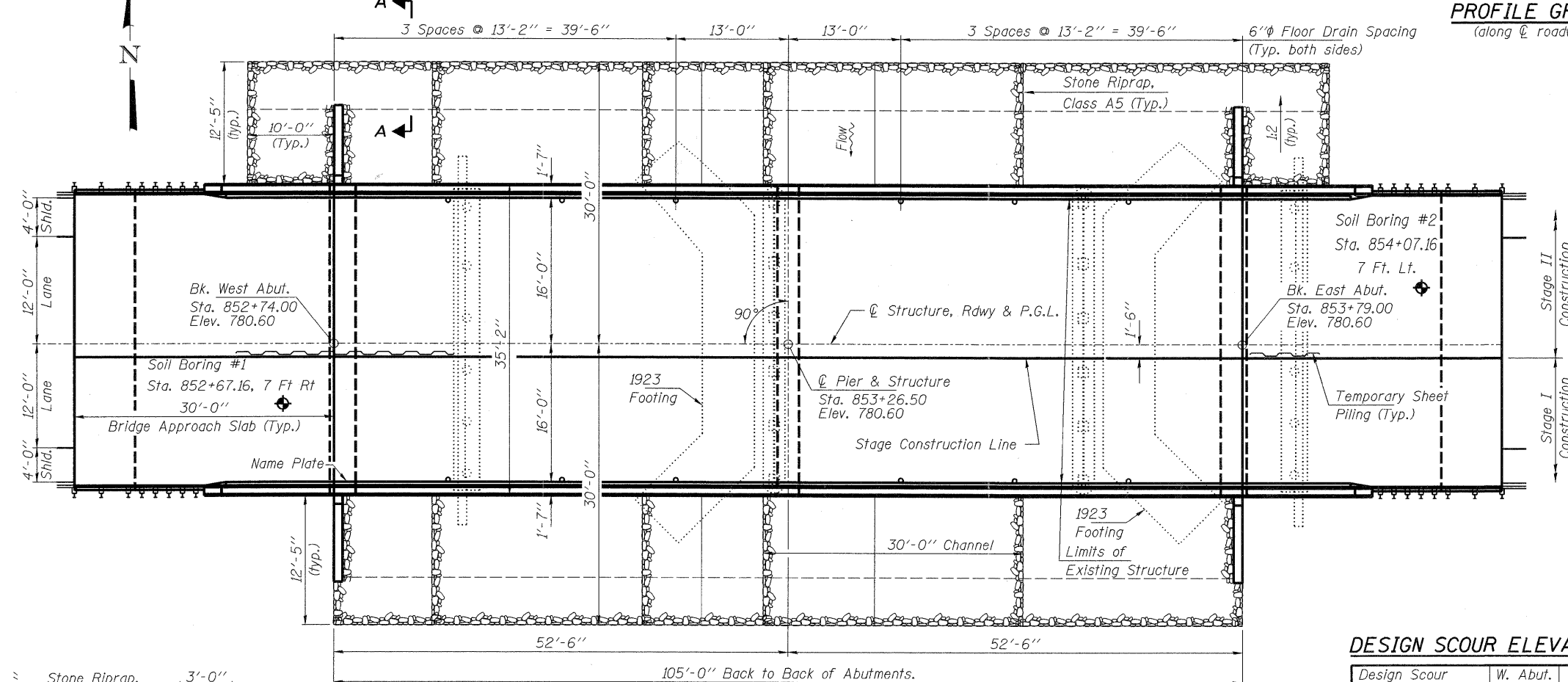
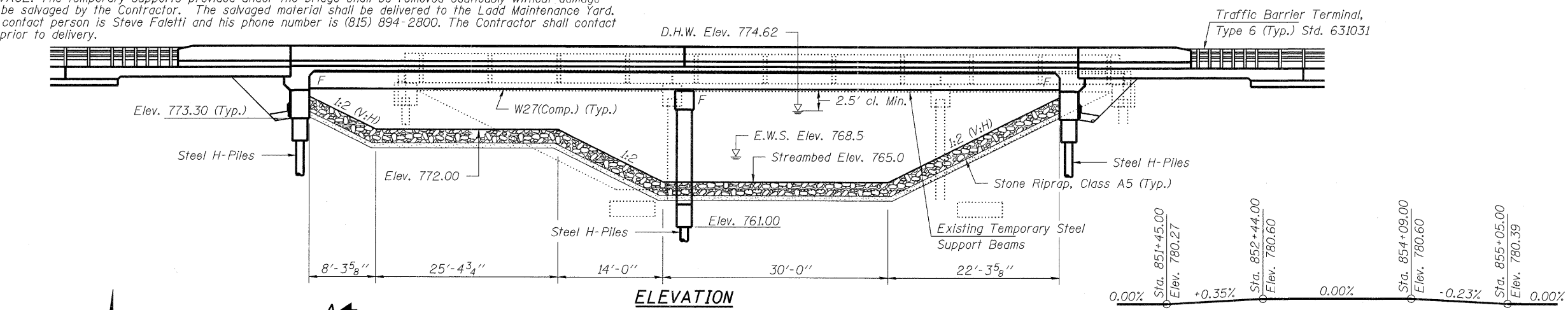
BENCHMARK: Brass Disc in top northwest wingwall, 17' Lt., Sta. 852+89, Elev. 780.10.

EXISTING STRUCTURE: SN 006-0147 was originally built in 1987 as FA Route 587, Section 22BR. It consists of a 3-span PPC deck beam superstructure on pile bent substructure units. The superstructure consists of 17"x48" PPC deck beams with a 98'-8" bk.-bk. length and 32'-0" o.-o. width. Structure to be removed and replaced using staged construction.

SALVAGE: The temporary supports provided under the bridge shall be removed cautiously without damage and be salvaged by the Contractor. The salvaged material shall be delivered to the Ladd Maintenance Yard. The contact person is Steve Faletti and his phone number is (815) 894-2800. The Contractor shall contact him prior to delivery.

**INDEX OF SHEETS**

1. General Plan
2. General Notes & Total Bill of Material
3. Stage Construction
4. Temporary Concrete Barrier For Stage Construction
5. Top of Deck Elevations-1
6. Top of Deck Elevations-2
7. Top of Deck Elevations-3
8. Top of West Approach Slab Elevations
9. Top of East Approach Slab Elevations
10. Superstructure
11. Superstructure Details
12. Concrete Parapet Slipforming Option
13. Integral Abutment Diaphragm Details
14. Bridge Approach Slab-1
15. Bridge Approach Slab-2
16. Framing Plan
17. Structural Steel Details
18. Bearing Details
19. West Abutment
20. East Abutment
21. Pier
22. HP Pile Details
23. Bar Splicer Assembly And Mechanical Splicer Details
24. Cantilever Forming Brackets
25. Soil Boring Logs-1
26. Soil Boring Logs-2



**DESIGN STRESSES**  
FIELD UNITS  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (Structural steel) (M270 Grade 50W)

**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.066g  
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.118g  
Soil Site Class = C

**PLAN**  
**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.  
**DESIGN SPECIFICATIONS**  
2010 AASHTO LRFD Bridge Design Specifications

**WATERWAY INFORMATION**

Drainage Area = 20.5 Sq. Mi. Existing Low Grade Elev. 780.3 ft. @ Sta. 851+00

Flood	Freq. Yr.	Q		Natural		Head - Ft.		Headwater El.	
		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	1920	390	470	774.04	1.60	1.59	775.64	775.63
Design	50	3080	430	520	774.62	2.29	2.23	776.91	776.85
Base	100	3600	450	540	774.83	2.60	2.51	777.43	777.34
Max. Calc.	500	4850	480	580	775.25	3.33	3.01	778.58	778.26

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	W. Abut.	Pier	E. Abut.
	773.4	756.5	773.4

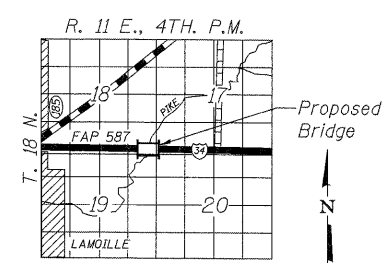
**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY  
*D. Cal Puzos (TD)*  
ENGINEER OF BRIDGES AND STRUCTURES



Syed M. Kazi  
Licensed Structural Engineer  
State of Illinois  
Lic. No. 081-004047  
License Expires: 11-30-2012

STATION 853+26.50  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. RTE. 587 SEC. (22BR)BR  
LOADING HL-93  
STR. NO. 006-0183

**NAME PLATE**  
Locate Name Plate at Southwest Corner of Bridge (See Std. 515001)



**LOCATION SKETCH**

**GENERAL PLAN**  
**US ROUTE 34**  
**OVER PIKE CREEK**  
**FAP ROUTE 587 - SECTION (22BR)BR**  
**BUREAU COUNTY**  
**STATION 853+26.50**  
**STRUCTURE NO. 006-0183**

<p>DELTA ENGINEERING GROUP, LLC CORPORATE OFFICE: 1000 W. BROADWAY, SUITE 200 CHICAGO, IL 60604</p>	USER NAME = kkhan	DESIGNED - SK	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>GENERAL PLAN</b> <b>STRUCTURE NO. 006-0183</b></p>	F.A.P. RTE. 587	SECTION (22 BR)BR	COUNTY BUREAU	TOTAL SHEETS 61	SHEET NO. 17
	PLOT SCALE =	CHECKED - GBC/SMK	REVISED -			SHEET NO. 1 OF 26 SHEETS	CONTRACT NO. 66995			
	PLOT DATE = 10/11/2011	DRAWN - SK	REVISED -			ILLINOIS FED. AID PROJECT				
		CHECKED - GBC/SMK	REVISED -							

FILE NAME = g:\zpi101101\bridge\Sheets\Sheet 1 - General Plan.dgn