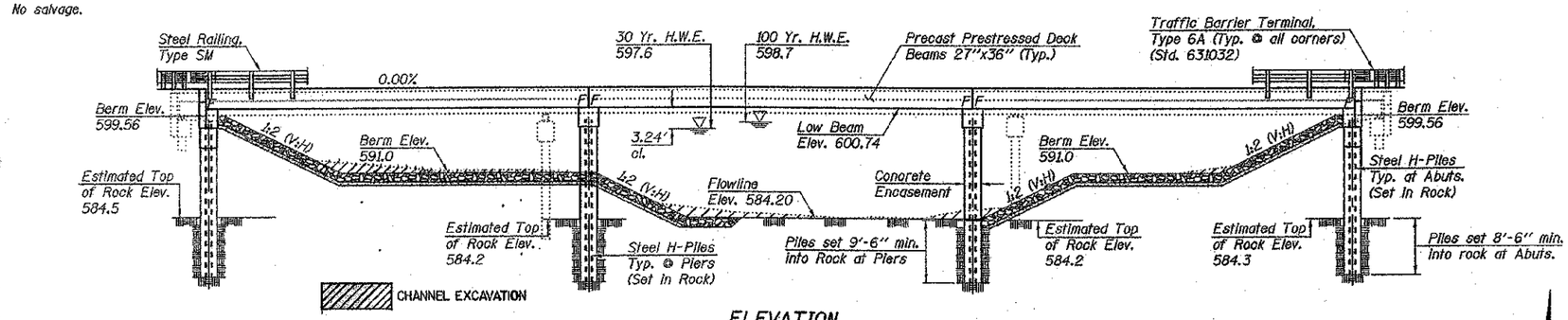
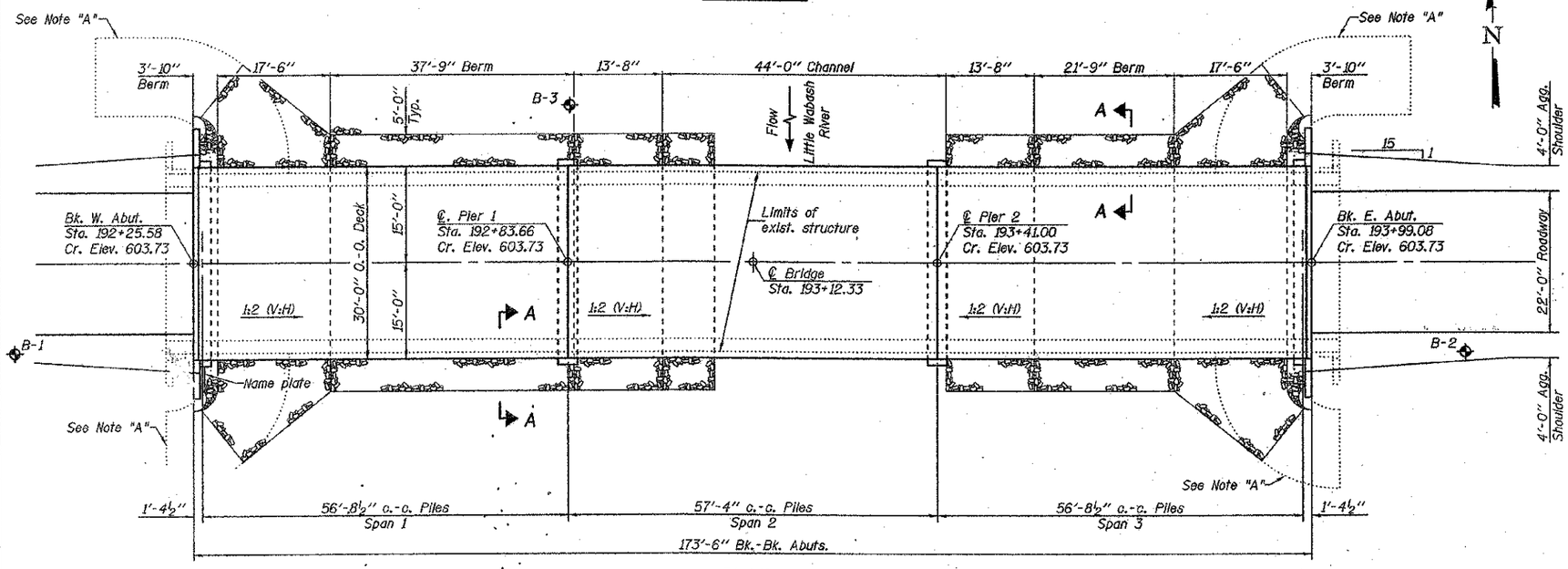
Bench Mark:
B.M. F - Chiseled "□" on Top of Headwall NE. Wingwall Behind Bridge Rail. Elev. 603.80

Existing Structure
S.N. 087-3014, Three Span, Non-Composite Continuous Steel I-Beam Bridge on Open Individually Encased Steel Pile Bent Piers and Spill Thru Concrete Abutments with 4" Concrete Slopewall. Structure Length: 182'-0" Bk.-Bk. Abutments. Spans: 1 @ 54'-3", 1 @ 70'-0", 1 @ 54'-3". Total Width: 30'-0" O.-O. Deck. Skew = 0°.

No salvage.



ELEVATION



PLAN

LOADING HL-93

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

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.135
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.308
Soil Site Class = C

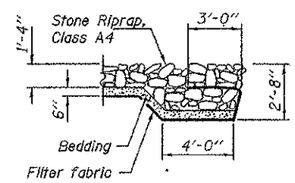
DESIGN STRESSES

FIELD UNITS

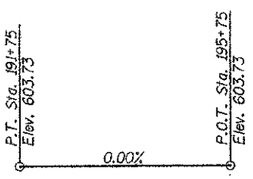
f'c = 3,500 psi (Field Units)
fy = 60,000 psi (Reinforcement)
f'c = 6,000 psi (Prestressed Beams)
f'ci = 5,000 psi (Prestressed Beams)
f's = 270,000 psi (½" Low Relax Strands)
f'si = 201,960 psi (½" Low Relax Strands)

LITTLE WABASH RIVER
BUILT 20 BY
SHELBY COUNTY
SEC. 06-00265-00-BR
F.A.S. RTE. 656 STA. 193+12.33
STR. NO. 087-3555 LOADING HL-93

NAME PLATE
See Std. 515001



SECTION A-A



PROPOSED PROFILE GRADE
(County Highway 33)

LICENSED STRUCTURAL ENGINEER DAVID CARL PUZEY 081-005470 SPRINGFIELD ILLINOIS STATE OF ILLINOIS
Expires 11/30/12

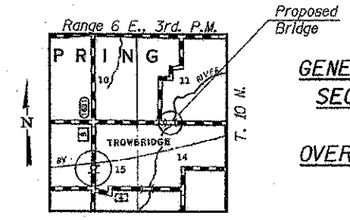
WATERWAY INFORMATION

Drainage Area	58.14 Sq. Mi.
Existing Opening (30 Yr.)	1,118 Sq. Ft.
Required Opening (30 Yr.)	1,331 Sq. Ft.
Proposed Opening (30 Yr.)	1,331 Sq. Ft.
Design Discharge (30 Yr.)	7,290 C.F.S.
Created Head (30 Yr.)	1.0 Ft.
100 Year Discharge	9,740 C.F.S.
100 Yr. Created Head	1.4 Ft.
100 Yr. H.W.E.	598.7 Ft.

Note "A": Portions of Existing Concrete Slope Wall, located on sides of embankment, to remain in place. Portions of Existing Concrete Slope Wall under and adjacent to the proposed structure to be removed as required for placement of Stone Riprap. Cost included with Removal of Existing Structures.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	594.9	582.1	582.1	594.9



LOCATION PLAN

GENERAL PLAN & ELEVATION
SECTION 06-00265-00-BR
C.H. 33 (F.A.S. 656)
OVER LITTLE WABASH RIVER
SHELBY COUNTY
STATION 193+12.33
STRUCTURE NO. 087-3555

DESIGNED - Fessehaye Tekleab	EXAMINED	DATE - 4/19/2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - Stephen M. Egan	ENGINEER OF BRIDGE DESIGN	REVISED	
DRAWN - H.T. Duong	PASSED	REVISED	
CHECKED - FT/SMR	ENGINEER OF BRIDGES AND STRUCTURES		

GENERAL PLAN & ELEVATION
STRUCTURE NO. 087-3555
SHEET NO. 1 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
656	06-00265-00-BR	SHELBY	29	18
		CONTRACT NO. 95701		
		ILLINOIS FED. AID PROJECT		