

Benchmark: Chiseled "X" on northwest corner of concrete headwall. Elev. 644.96

Existing Structure: S.N. 098-0015 originally constructed in 1966 as SBI Route 88, Section 101 B-1. The width was doubled in 1972 as FA 403, Section 195-(101 BY). Existing Structure is a combination PPC Deck Beam structure, Bk to Bk Abut 63.63' and Out to Out width 92'-0". The east third of the structure consists of 27" side by side deck beams. The west two-thirds consists of 33" deck beams spaced at ±6' centers supporting a 7" R.C. deck. Traffic to be maintained using stage construction.

No Salvage.

LOADING HL-93

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

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim (Bridge Structure)
2002 AASHTO Standard Specification for Highway Bridges (Retaining Wall and Wingwalls)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.087g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.141g
Soil Site Class = D

DESIGN STRESSES

NEW CONSTRUCTION
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50W)

EXISTING CONSTRUCTION
 $f'_c = 2,200$ psi
 $f_y = 40,000$ psi (Reinforcement)

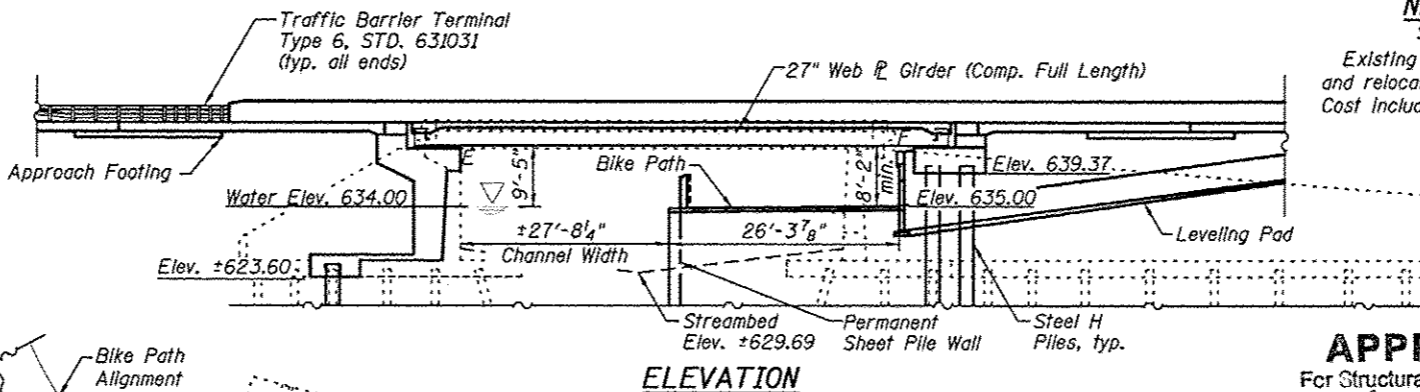
STATION 632+59.38
RE-BUILT 201X BY
STATE OF ILLINOIS
F.A.P. RTE. 646 SEC.101 BR-3
LOADING HL-93
STRUCTURE NO. 098-0015

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NAME PLATE

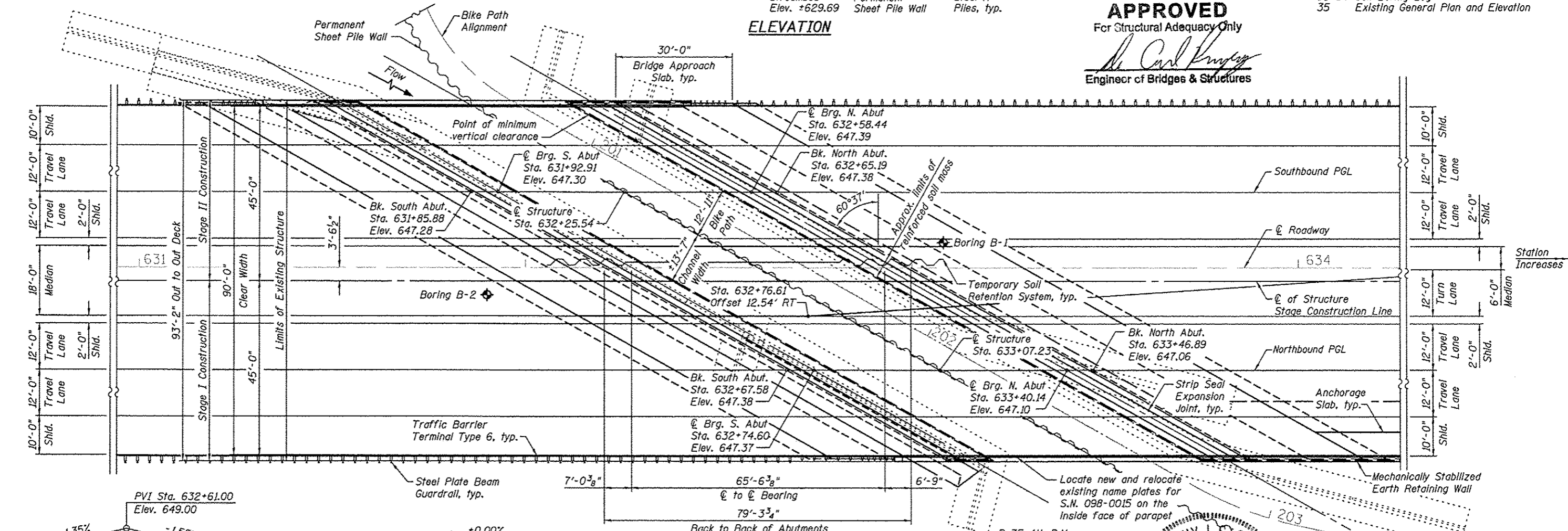
See Std. 515001
Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.



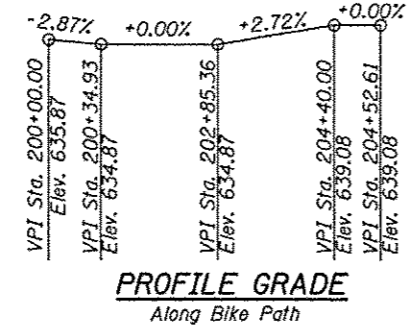
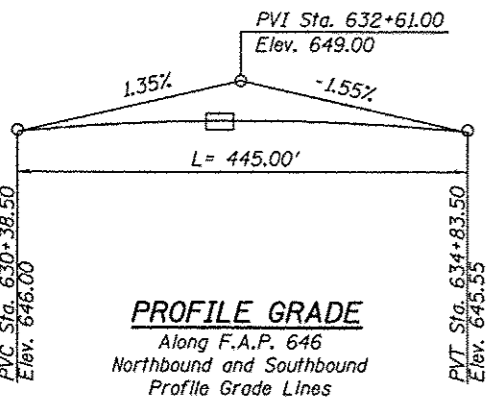
ELEVATION

APPROVED
For Structural Adequacy Only

Anthony J. Standish
Engineer of Bridges & Structures

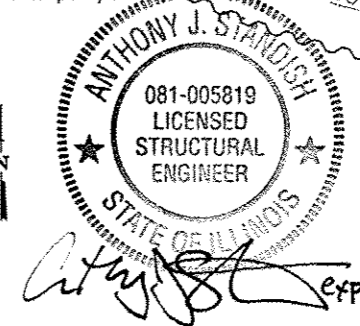
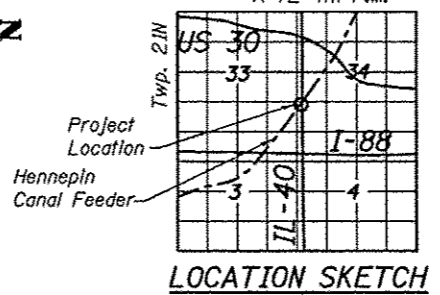


PLAN



WATERWAY INFORMATION

Flow is controlled. Waterway opening has been determined by recreational requirements.



GENERAL PLAN AND ELEVATION
F.A.P. 646 (IL-40) OVER
HENNEPIN CANAL FEEDER
SECTION 101 BR-3
WHITESIDE COUNTY
STATION 632+59.38
STRUCTURE NO. 098-0015

FILE NAME: S:\101\6288-6399\6246\B25\Structure\Structural\Plan\980015-6403-001-001.dwg

1170 SOUTH HOBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME: rjgend PLOT SCALE: 1"=40' PLOT DATE: 12/3/2012	DESIGNED - MJD CHECKED - AJS DRAWN - B.JF CHECKED - RRD	REVISED REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 098-0015	F.A.P. RTE. 646 SECTION 101 BR-3 COUNTY WHITESIDE TOTAL SHEETS 113 SHEET NO. 57	CONTRACT NO. 64C17 ILLINOIS FED. AID PROJECT
	SHEET NO. 1 OF 35 SHEETS						