

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
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)

EXISTING CONSTRUCTION
f'c = 2,200 psi
fy = 40,000 psi (Reinforcement)

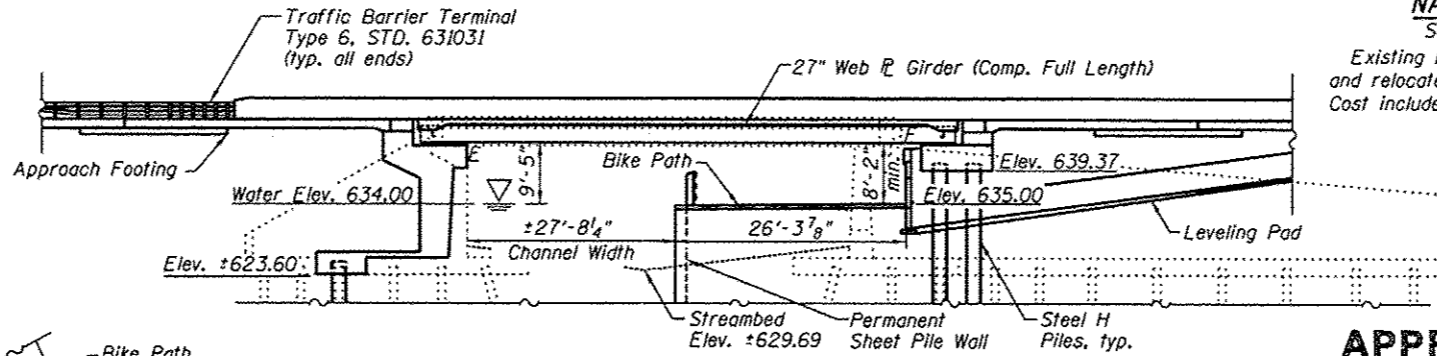
STATION 632+59.38
RE-BUILT 201X BY
STATE OF ILLINOIS
F.A.P. RTE. 646 SEC.101 BR-3
LOADING HL-93
STRUCTURE NO. 098-0015

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Details
- 3 Temporary Soil Retention Details
- 4 Substructure Layout
- 5 Temporary Concrete Barrier
- 6-8 Top of Slab Elevations
- 9 Top of South Approach Slab Elevations
- 10 Top of North Approach Slab Elevations
- 11-12 Superstructure
- 13 Superstructure Details
- 14-16 Bridge Approach Pavement
- 17 Preformed Joint Strip Seal
- 18 Steel Framing Plan
- 19 Beam Details
- 20 Bearing Details
- 21-22 North Abutment Details
- 23-24 MSE Wall Details
- 25 South Abutment Removal Details
- 26-28 South Abutment Details
- 29 South Abutment Footing Plan
- 30 HP Pile Details
- 31-31a Permanent Sheet Pile Wall
- 32 Bar Splicer and Assembly Details
- 33-34 Soil Boring Log
- 35 Existing General Plan and Elevation

NAME PLATE

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

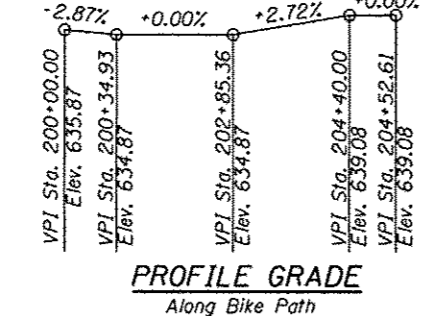
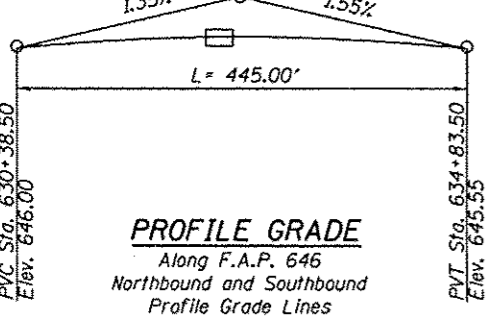
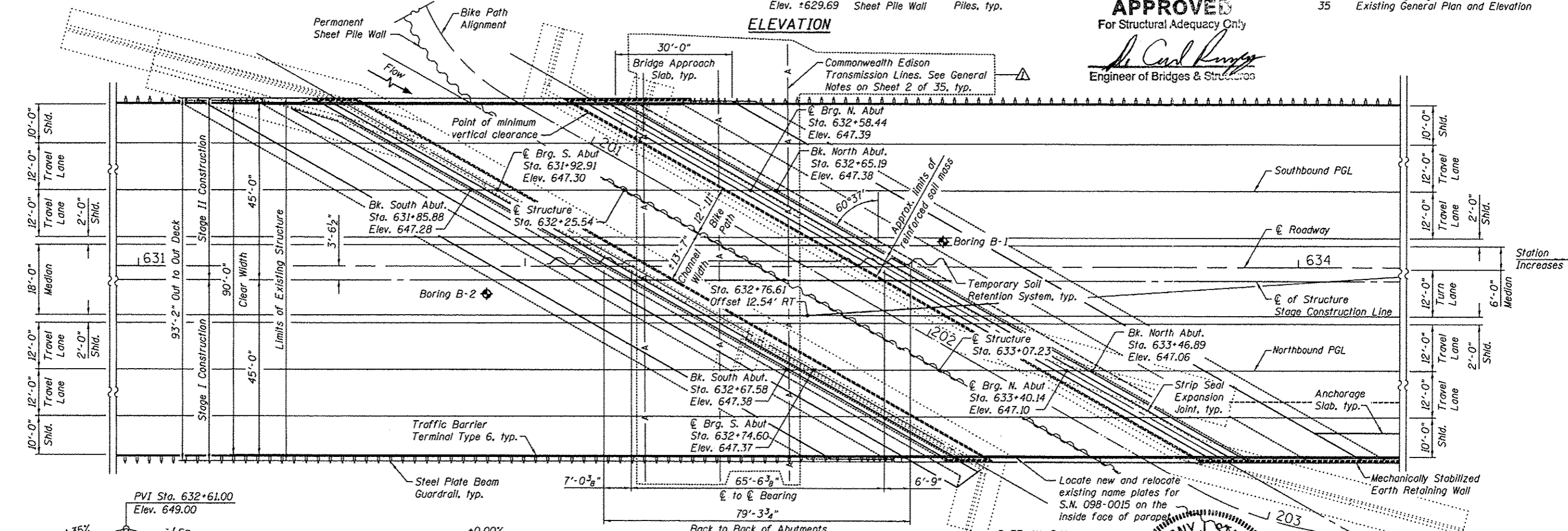


ELEVATION

APPROVED

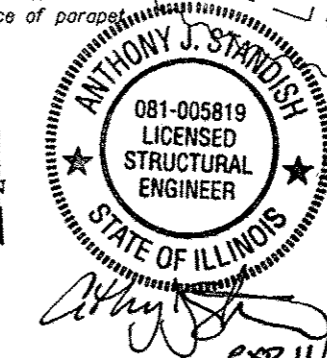
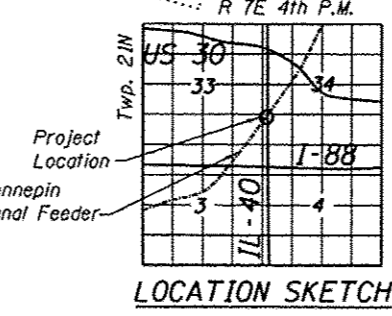
For Structural Adequacy Only

Carl Rupp
Engineer of Bridges & Structures



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

	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 815) 744-4200 IDPR NO. 184-001273	USER NAME: brisnf DESIGNED: MJD CHECKED: AJS DRAWN: BJE CHECKED: RRD PLOT SCALE: PLOT DATE: 4/4/2013	REVISED: RRD 4/5/2013 REVISED: REVISED: REVISED:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 098-0015 SHEET NO. 1 OF 35 SHEETS	F.A.P. RTE. 646 SECTION 101 BR-3 COUNTY WHITESIDE TOTAL SHEETS 35 SHEET NO. 1/31 CONTRACT NO. 64C17 ILLINOIS FED. AID PROJECT
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