

B.M.- Cut square on south side of Simpson Road, top of bottom part of pier for westbound structure. Elev.=737.40

Existing S.N.'s 101-0053 (E.B.) and 101-0054 (W.B.)

Each structure is a three span reinforced concrete deck bridge on steel I-beams. Spans of 55'-6", 60'-0", 52'-0", 173'-8" Back to Back Abutments. 35'-8" to 0. Built in 1963. The Contractor shall remove existing concrete deck, abutment bearings, abutment backwalls, abutment wingwalls, and approach slabs. Replace with widened R.C. deck, Elastometric bearings, and widen structure for additional beam line. The road shall be kept open with one lane of traffic in each direction using a median crossover.

No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A.P. 301 (US 20)	(2HB-1)D	WINNEBAGO	107	66	34 SHEETS
FED. ROAD DIST. NO. 7	ALIGNED	FED. AID PROJECT			

Contract #64B07

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Notes and Total Bill of Materials
- 3 Stage Construction
- 4-6 Top of Slab Elevations
- 7-8 Top of Approach Slab Elevations
- 9 Superstructure Plan
- 10 Superstructure Details
- 11 Drainage Scupper, DS-11
- 12 Preformed Joint Strip Seal
- 13 Framing Plan
- 14 Structural Steel Details
- 15 Steel Bearings at Piers
- 16 Elastomeric Bearing Assembly Type I
- 17 Elastomeric Bearing Assembly Type II
- 18-19 Abutment Concrete Removal Details
- 20-25 Abutment Modification Details
- 26 Pier 1 - W.B. & E.B.
- 27 Pier 2 - W.B. & E.B.
- 28 Slope Wall and Abutment Drainage Details
- 29 Pile and Encasement Details
- 30 Bar Splicer Assembly Details
- 31 Parapet Slip Forming Option
- 32-34 Boring Logs

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications - 17th ed.

LOADING HS20-44

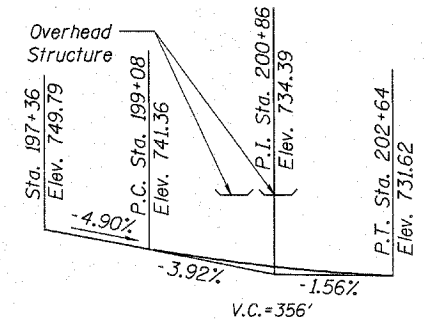
No allowance for future wearing surface.

DESIGN STRESSES

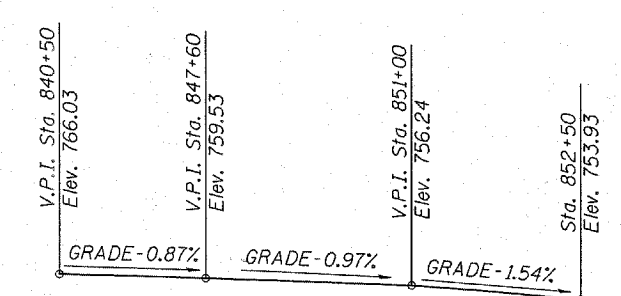
New construction field units
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Structural Steel AASHTO M270 Grade 36)
 Existing construction field units
 $f'_c = 3,500$ psi
 $f_y = 40,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Structural Steel AASHTO M270 Grade 36)

SEISMIC DATA

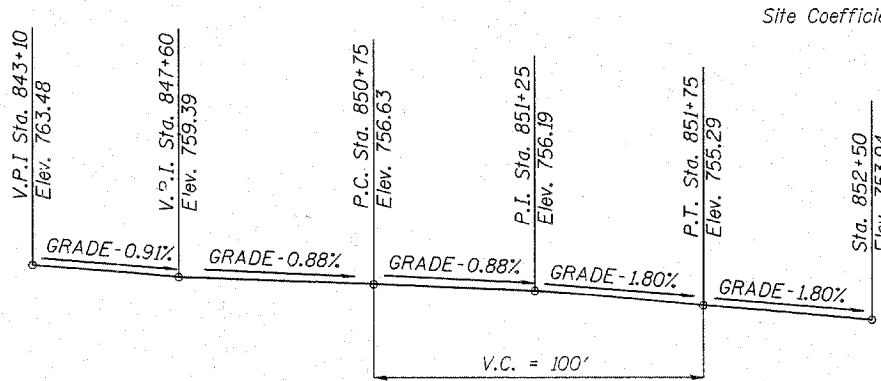
Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.035
 Site Coefficient (S) = 1.2



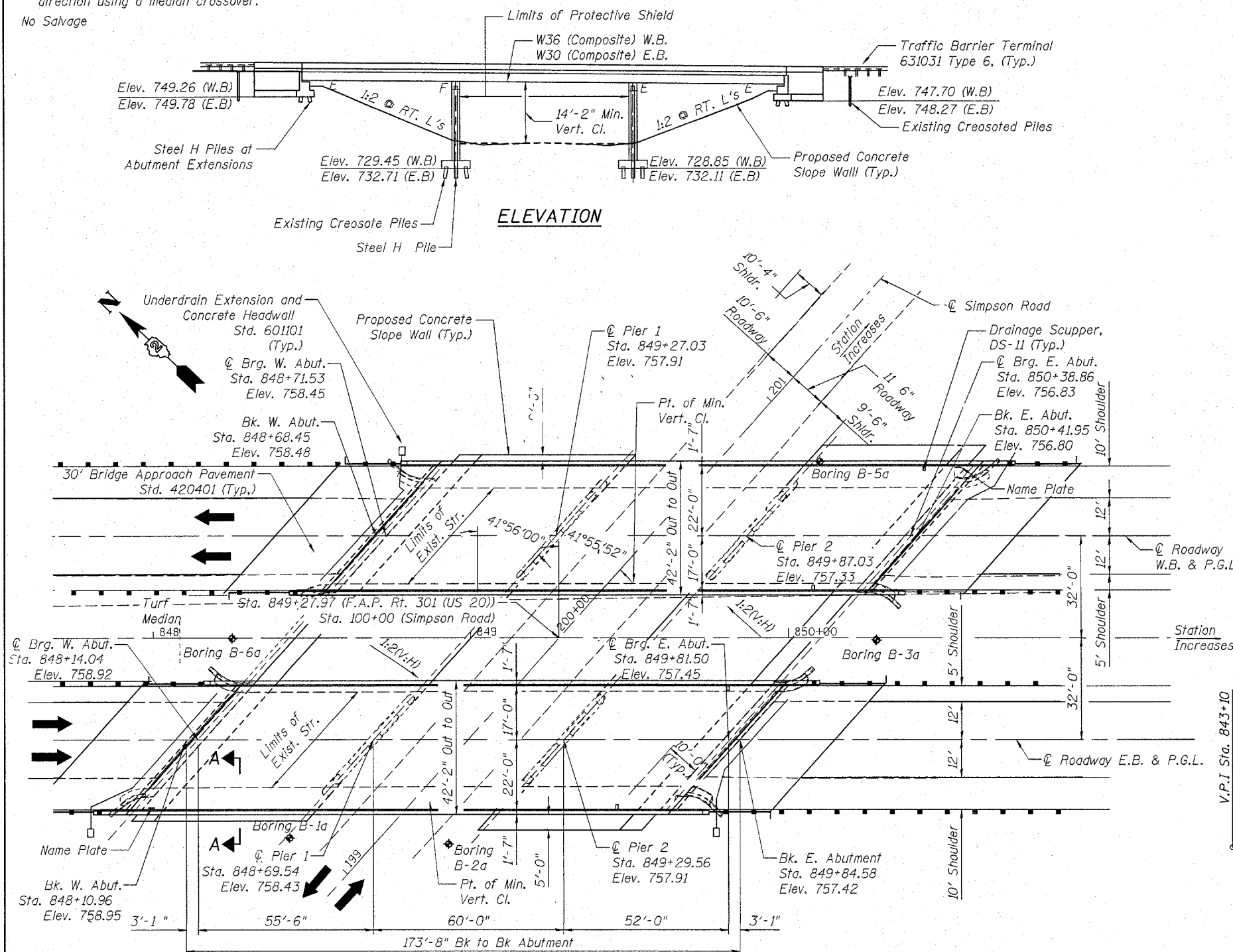
PROFILE GRADE ROADWAY SIMPSON ROAD



PROFILE GRADE ROADWAY WEST BOUND US 20
(F.A.P. RTE 301)



PROFILE GRADE ROADWAY EAST BOUND US 20
(F.A.P. RTE 301)



PLAN

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (TJD)
ENGINEER OF BRIDGES AND STRUCTURES

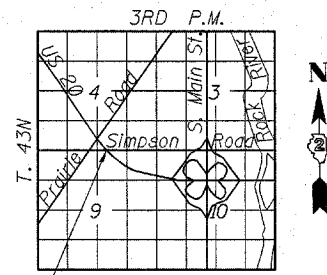
STATION 849+28
REBUILT 2007 BY
STATE OF ILLINOIS
F.A.P. RT. 301 SEC. (2HB-1)D
LOADING HS20-44
STR. NO. 101-0053 (W.B.)

STATION 849+28
REBUILT 2007 BY
STATE OF ILLINOIS
F.A.P. RT. 301 SEC. (2HB-1)D
LOADING HS20-44
STR. NO. 101-0054 (E.B.)

NAME PLATE
See Std. 515001

NAME PLATE
See Std. 515001

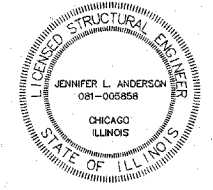
Note:
Clean and relocate existing Name Plates adjacent to new Name Plates. Cost included with Name Plates.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
F.A.P. ROUTE 301 (US 20)
OVER SIMPSON ROAD
SECTION (2HB-1)D
WINNEBAGO COUNTY
STATION 849+27.97
STRUCTURE NO. 101-0053 (W.B.)
STRUCTURE NO. 101-0054 (E.B.)

DESIGNED	SSM
CHECKED	JLA
DRAWN	GJR
CHECKED	SSM



Jennifer L. Anderson 28/7/07
JENNIFER L. ANDERSON, S.E., P.E.
LICENSE NO. 081-005858
EXPIRES: 11/2008