

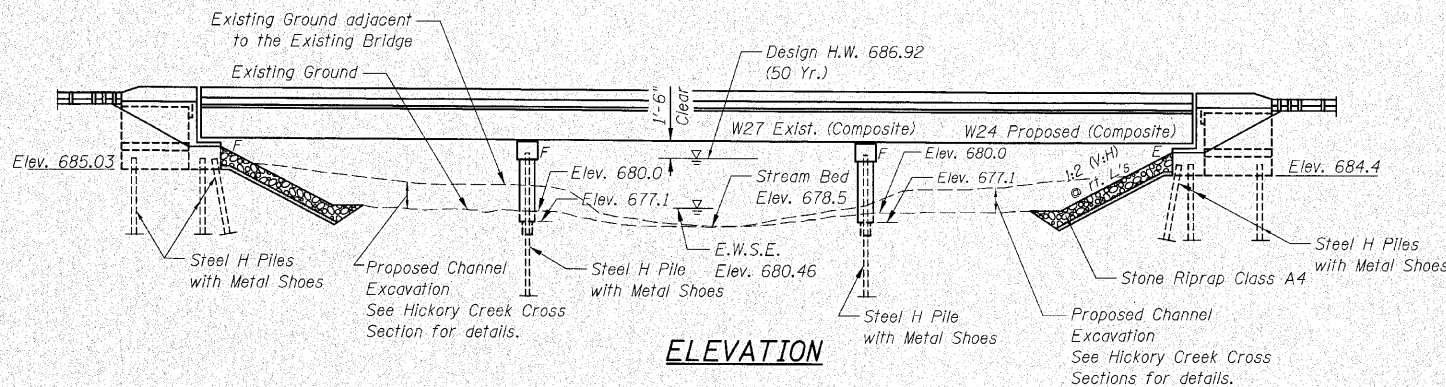
BENCHMARK

B.M. #10 - Cut on concrete parapet, Southwest corner of bridge. Elev. 694.593

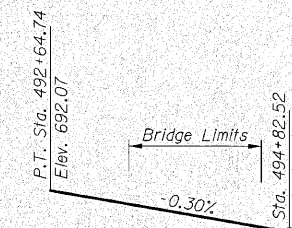
Existing Structure No. 099-0311, built in 1996 as F.A.P. Rte. 353, Section 13B-R-1190. The superstructure consists of a composite reinforced concrete deck supported on steel wide flanged beams. Length is 159'-0" bk-bk, and width is 43'-2" o-o. The piers are single row steel H pile bents encased in concrete. The abutments are standard pile cap abutments supported on steel H piles. Traffic will be maintained during the widening of the bridge by stage construction.

No salvage.

F.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13) WRS-4	WILL	608	414
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		
Contract No. 62478				

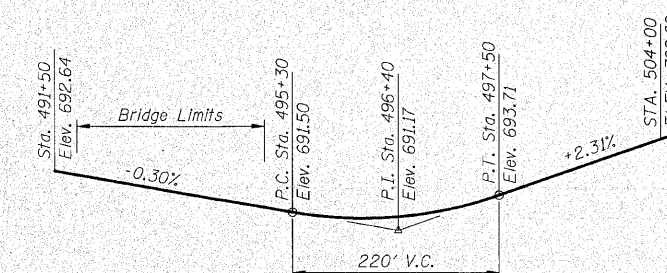


ELEVATION



See Roadway Grading Plan outside of bridge limits

WESTBOUND PROFILE GRADE - U.S. ROUTE 30

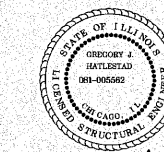


EASTBOUND PROFILE GRADE - U.S. ROUTE 30

LEGEND

- Foundation Borings obtained 1996
- A — Aerial Line
- S — Storm Sewer
- G — Gas Line
- T — Telephone Line

CIVILTECH ENGINEERING, INC.
GREGORY J. HATLESTAD, S.E.



Greg Hatlestad
GREGORY J. HATLESTAD, S.E.
081-005562

EXP 11/30/2010

DATE 6/11/2010

DESIGN SPECIFICATIONS
2002 AASHTO

LOADING HS 20-44

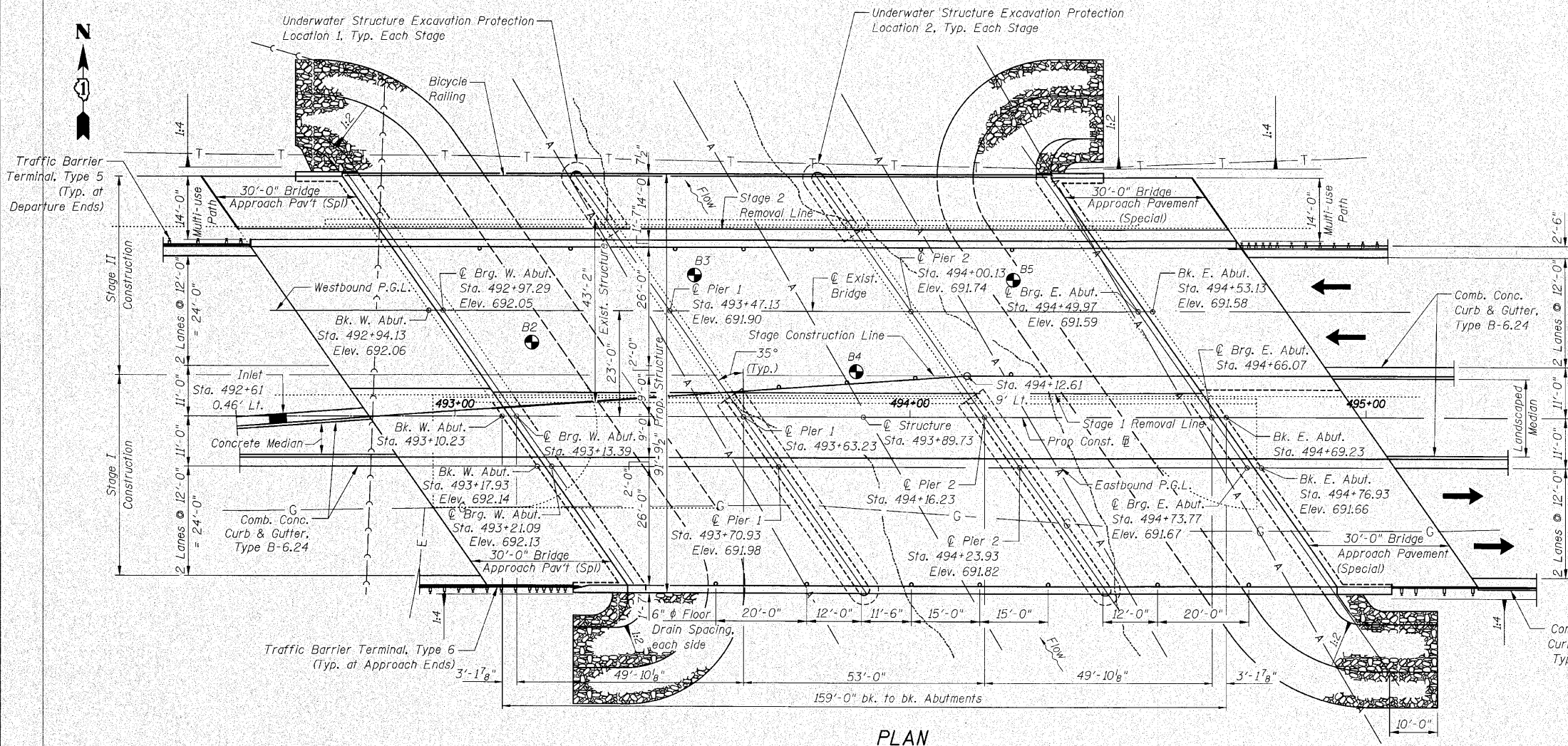
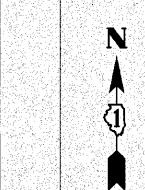
Allow 50 #/Sq. Ft. for future wearing surface.

DESIGN STRESSES

f'c = 3500 psi
fy = 60,000 psi (Reinf.)
fy = 50,000 psi (Struct.) M270 Grade 50

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0



PLAN

DESIGN SCOUR ELEVATION TABLE

	W. Abut.	Pier #1	Pier #2	E. Abut.
Design Scour Elevation ft.	685.0	661.0	661.0	684.0

WATERWAY INFORMATION TABLE

Drainage Area = 17.4 Sq. Mi. Low Grade Elevation: Exist. = 690.9 @ Sta. 496+35, Prop. = 691.1 @ Sta. 495+55 Max. Rec. H.W.E. = 688.0

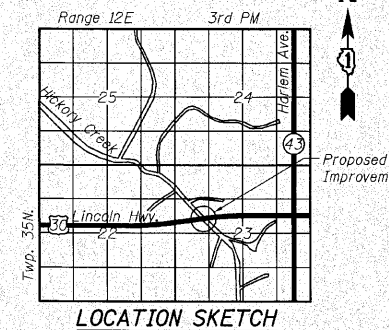
Flood	Frequency Year	Discharge (C.F.S.)	Waterway Opening		Natural H.W.E.	Created Head		Headwater Elevation	
			Existing (Sq. Ft.)	Proposed (Sq. Ft.)		Existing (Feet)	Proposed (Feet)	Existing	Proposed
Design	10	1600	529	529	686.1	0.4	0.2	686.5	686.3
Base	50	2500	621	621	686.9	0.5	0.3	687.4	687.2
	100	3000	669	669	687.3	0.6	0.4	687.9	687.7
Max. Calc.	500	5500	831	831	688.8	1.4	1.2	690.2	690.0

STATION 493+89.73
WIDENED 2011 BY
STATE OF ILLINOIS
U.S. ROUTE 30 SEC. 13B-R-1190
LOADING HS20
STR. NO. 099-0311

NAME PLATE

See Std. 515001

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



LOCATION SKETCH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
U.S. RTE. 30 OVER HICKORY CREEK
STATION 493+89.73
STRUCTURE NUMBER 099-0311

SCALE: None
DATE: June 11, 2010

DRAWN BY: C. Cooney
CHECKED BY: G. Hatlestad