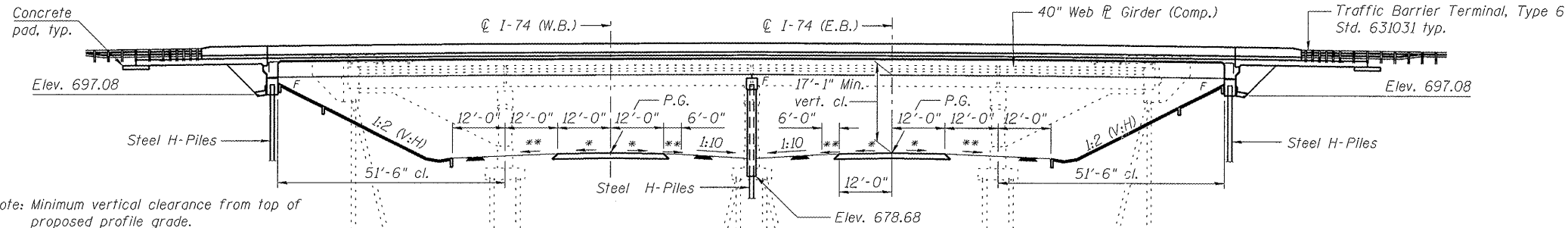


Bench Mark: Chiseled square on top of the Southwest abutment of structure SN 010-0153.
Elevation = 702.75

Existing Structure: S.N. 010-0153 a four span PPC I beam bridge that was built in 1958 as FAI-5 Section 10-6HB-5. The substructure consists of open stub abutments and multiple round columned piers. Both the abutments and the piers are founded on concrete piles. The Back to Back dimension measures 185'-6" while the Out to Out width measures 34'-6". The Contractor shall remove the existing structure as required and replace it with a two span plate girder on integral abutments. The road will be closed and traffic detoured during construction.

No Salvage

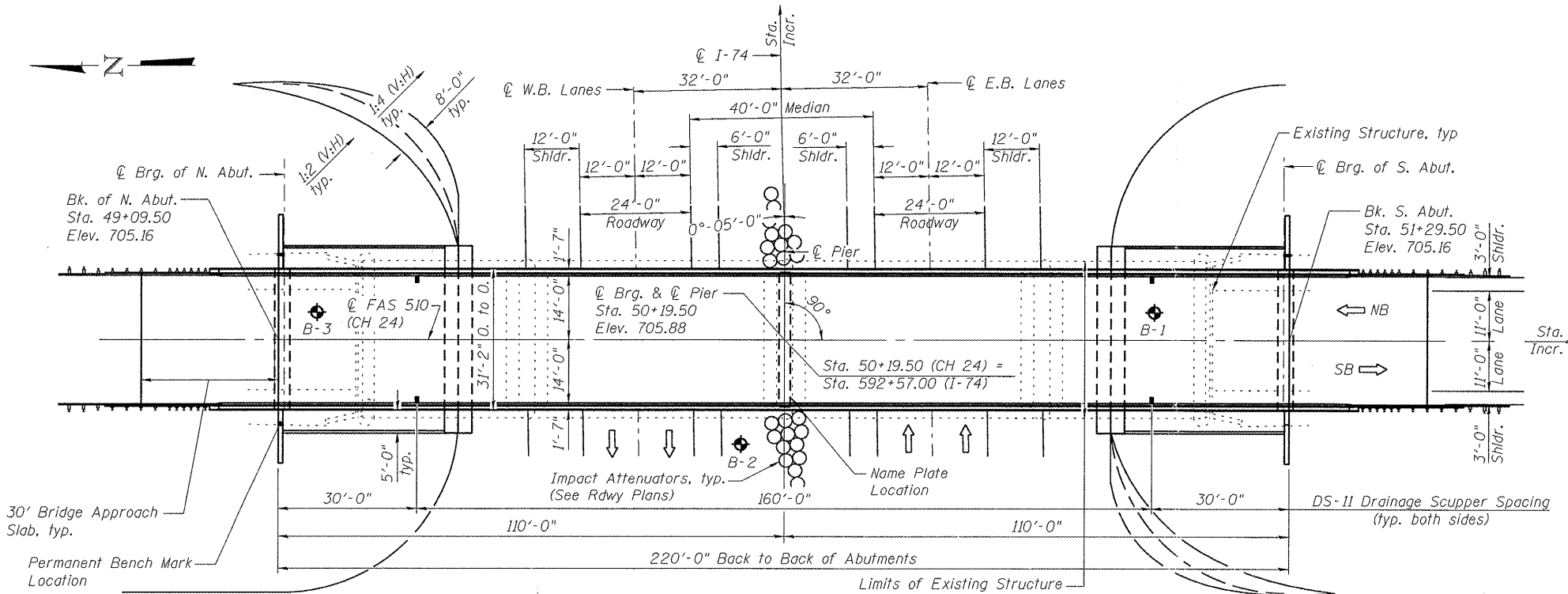
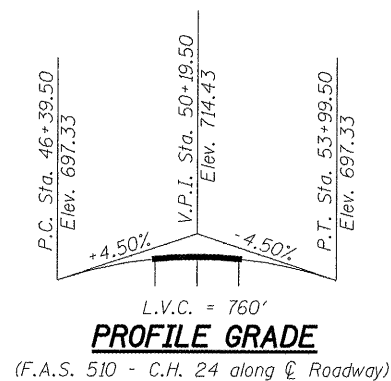
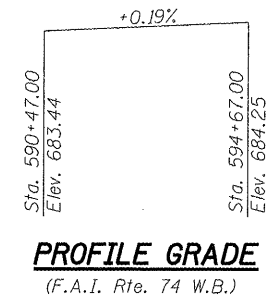
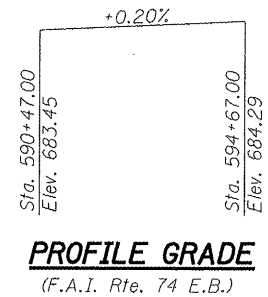
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Note: Minimum vertical clearance from top of proposed profile grade.

* = 3/16"/ft
** = 1/2"/ft

ELEVATION
(Looking East)



Indicates Boring Location

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Grade 36)
fy = 50,000 psi (M270 Grade 50)

SEISMIC DATA

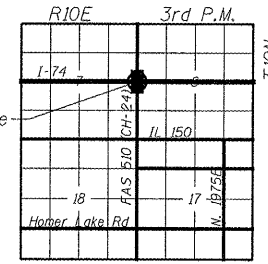
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S₀₁) = 0.13g
Design Spectral Acceleration at 0.2 sec. (S₀₅) = 0.22g
Soil Site Class = D

LOADING HL-93

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

DESIGN SPECIFICATIONS

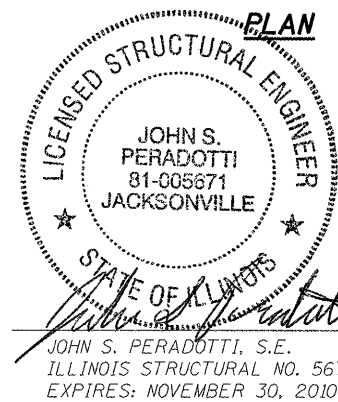
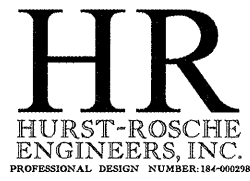
2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims



LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A.S. ROUTE 510 (CH 24) OVER
F.A.I. ROUTE 74
SECTION (10-6HB-5)BR
CHAMPAIGN COUNTY
STATION 50+19.50
STRUCTURE NO. 010-0285

DESIGNED	CJC / MEB
CHECKED	JSP
DRAWN	UJ
CHECKED	MEB



APPROVED
For Structural Adequacy Only

Ralph E. Anderson (TTP)
Engineer of Bridges & Structures

STATION 50+19.50
BUILT 2011 BY
STATE OF ILLINOIS
F.A.S. RT. 510 SEC. (10-6HB-5)BR
LOADING HL-93
STRUCTURE NO. 010-0285

NAME PLATE
See Std. 515001

SHEET NO. 1 20 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	(10-6HB-5)BR	CHAMPAIGN	63	13
SN 010-0285			CONTRACT NO. 90875		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					