Bench Mark: Chiseled square on top of the southwest wingwall, 17.65' Rt. at Station 288+13. Elevation = 755.435

Existing Structure: S.N. 074-0009 built in 1928 as S.B.I. Route 39, Section 12V at Sta. 289+23.00. Superstructure replaced in 1975 as S.B.I. Route 39, Section 12VBR. Structure consists of five span PPC deck beams on spill-thru counter-fort abutments and muti-column piers. 218'-7 7/8" back-to-back abutments. 33'-0" out-to-out deck. SN 074-0086 to be built on new alighment approximately 49' south of existing bridge. Road closed and traffic detoured during contruction.

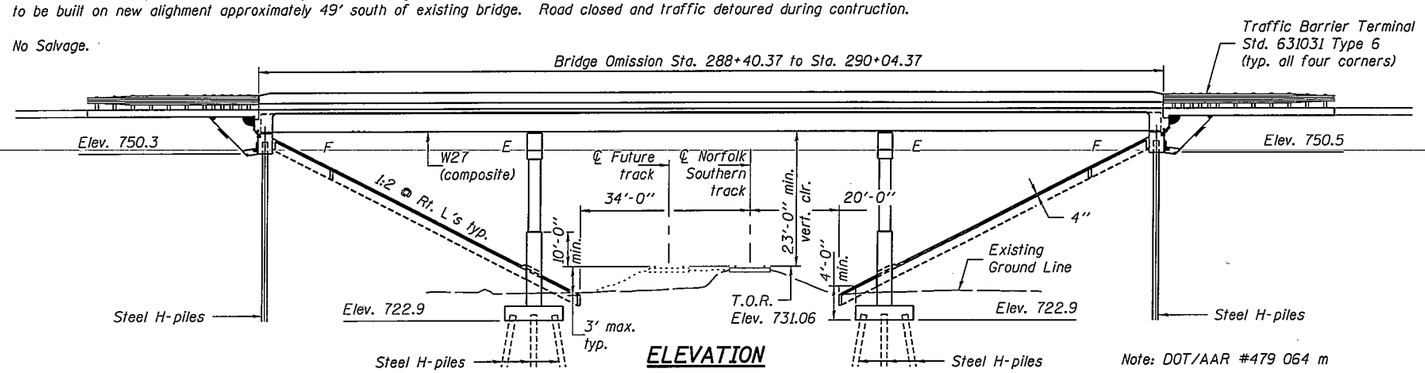
No Salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	-	-		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

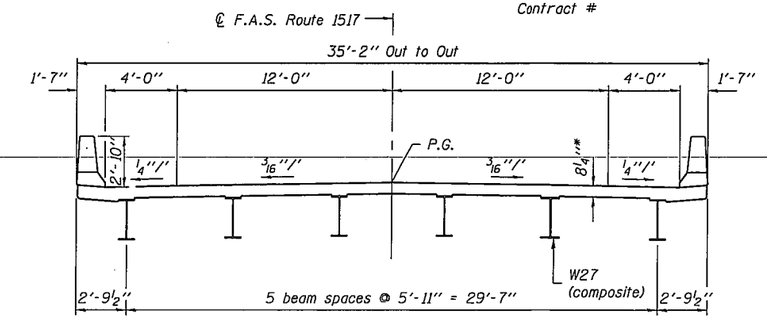
SHEET NO. 1
1 SHEET

Contract #



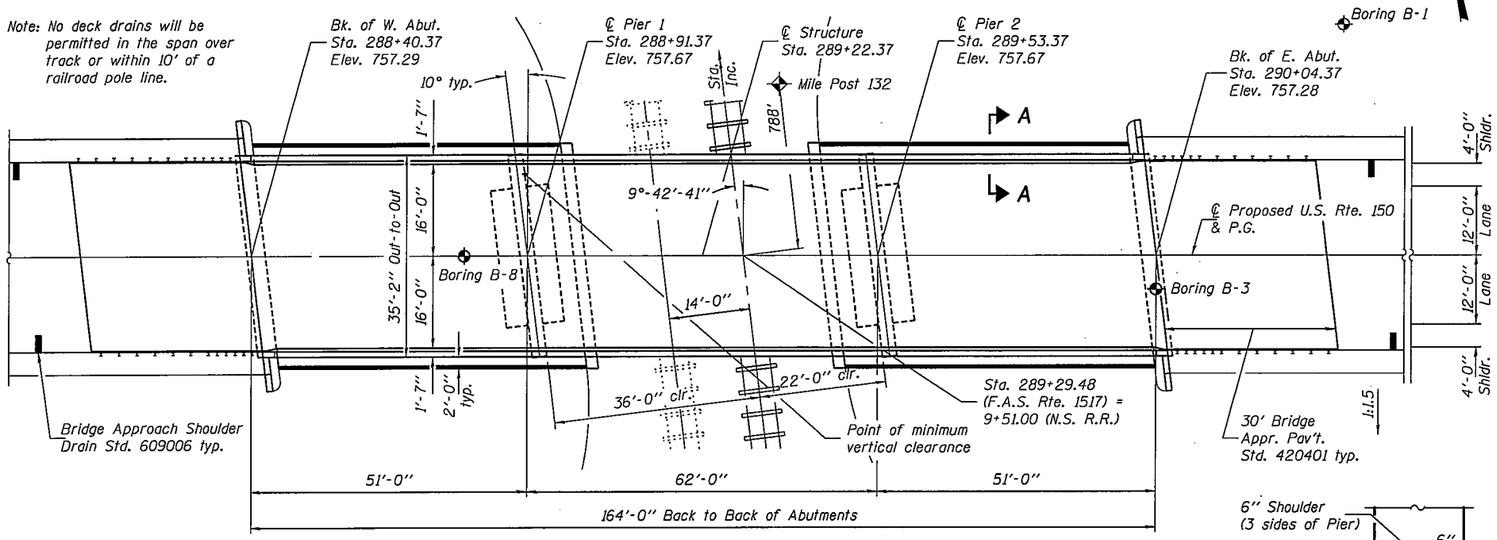
ELEVATION

Note: DOT/AAR #479 064 m

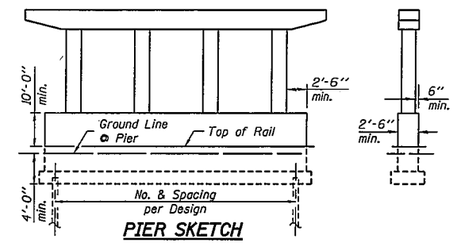


CROSS SECTION

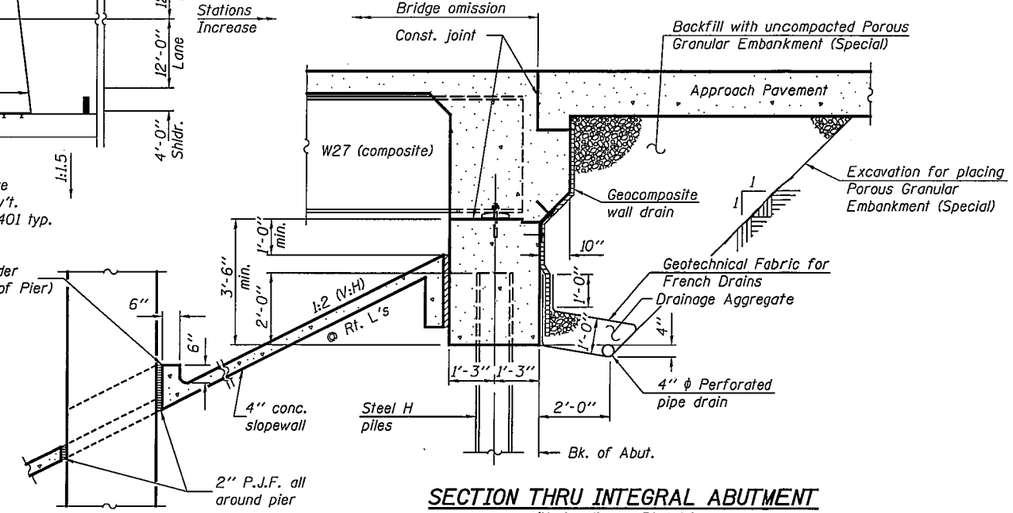
*Use Bridge Smoothness Specification



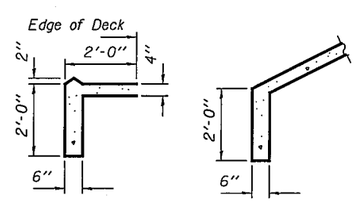
PLAN



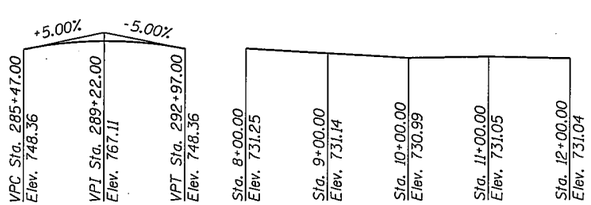
PIER SKETCH



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)



SECTION A-A



PROFILE GRADE
(along ℄ U.S. Route 150)

PROFILE GRADE
(Top of Rail - Norfolk Southern R.R.)

APPROVED
DEC 16 2008
AS A BASIS FOR PREPARATION OF DETAILED

HIGHWAY CLASSIFICATION

F.A.S. Route 1517 - U.S. Route 150
Functional Class: Major Collector
ADT: 2,000 (2006); 2,600 (2026)
ADTT: 8%
Design Speed: 45 m.p.h.
Posted Speed: 40 m.p.h.

LOADING HL-93

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

DESIGN SPECIFICATIONS

2007 LRFD AASHTO 4th Edition

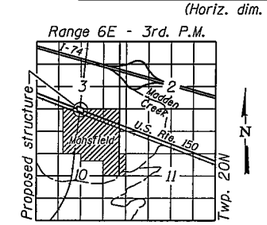
DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (AASHTO M270 Grade 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (S_{D1}) = 0.109
Design Spectral Acceleration at 0.2 sec (S_{DS}) = 0.179
Soil Site Class = 5



LOCATION SKETCH

GENERAL PLAN
U.S. ROUTE 150 OVER NORFOLK SOUTHERN R.R.
F.A.S. RTE. 1517 - SEC. 12VBR-1
PIATT COUNTY
STATION 289+22.37
STRUCTURE NO. 074-0086

DESIGNED	G.G. Eicher
CHECKED	A. Siudyla
DRAWN	W.D. Collins htd
CHECKED	B. Garde

- 200

EXAMINED
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

12-16-08

D-95-031-04

0740086-70388.dgn 12/16/2008 10:36:19 AM