Benchmark: Chiseled square on the southwest corner of the southeast wing of Structure No. 057-0003. Elev. 689.64.

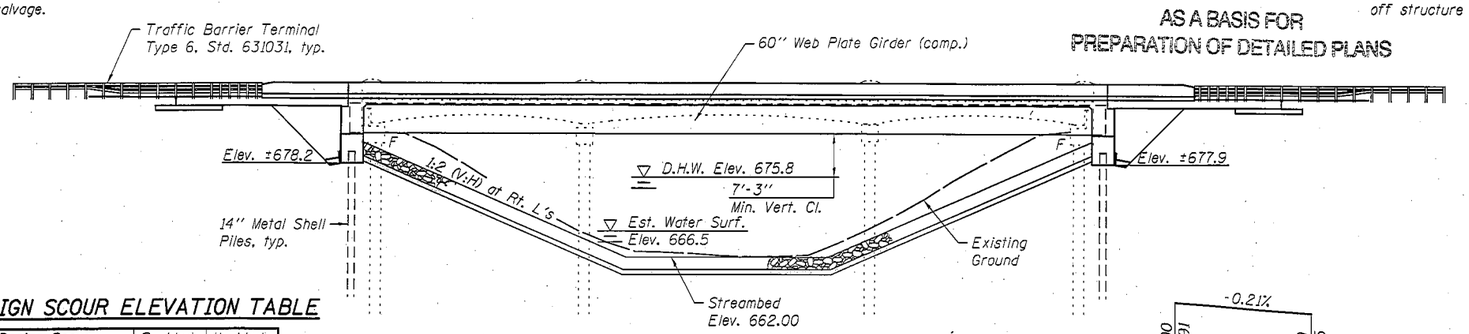
Existing Structure: S.N. 057-0003 was constructed in 1954 as F.A. Rt. 5 (S.B.I. Rt. 4), Section 17R-B-2, at Sta. 159+89.8. The bridge is a three-span concrete continuous tee-beam superstructure bearing on pile bent concrete piers and abutments, spanning 126'-10" back to back of abutments on a 30° right forward skew and measuring 34'-4" in width. The current roadway was originally constructed as the southbound lanes of a four lane divided highway, but the northbound lanes have been abandoned. The bridge was overlain with new approach rails constructed in 1998. The existing structure shall be removed and replaced under road closure with traffic detoured on marked routes.

No salvage.

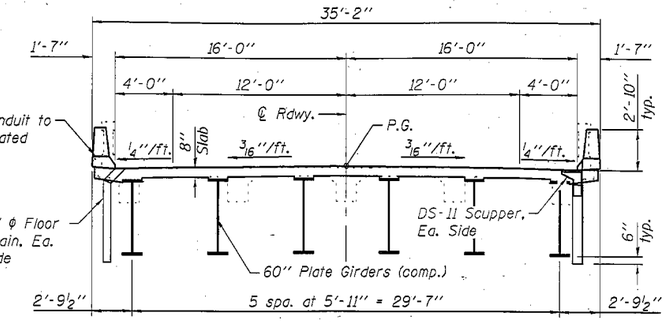
APPROVED

JUN 10 2013

AS A BASIS FOR PREPARATION OF DETAILED PLANS



ELEVATION

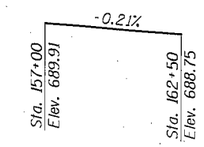


CROSS SECTION

(Looking North)

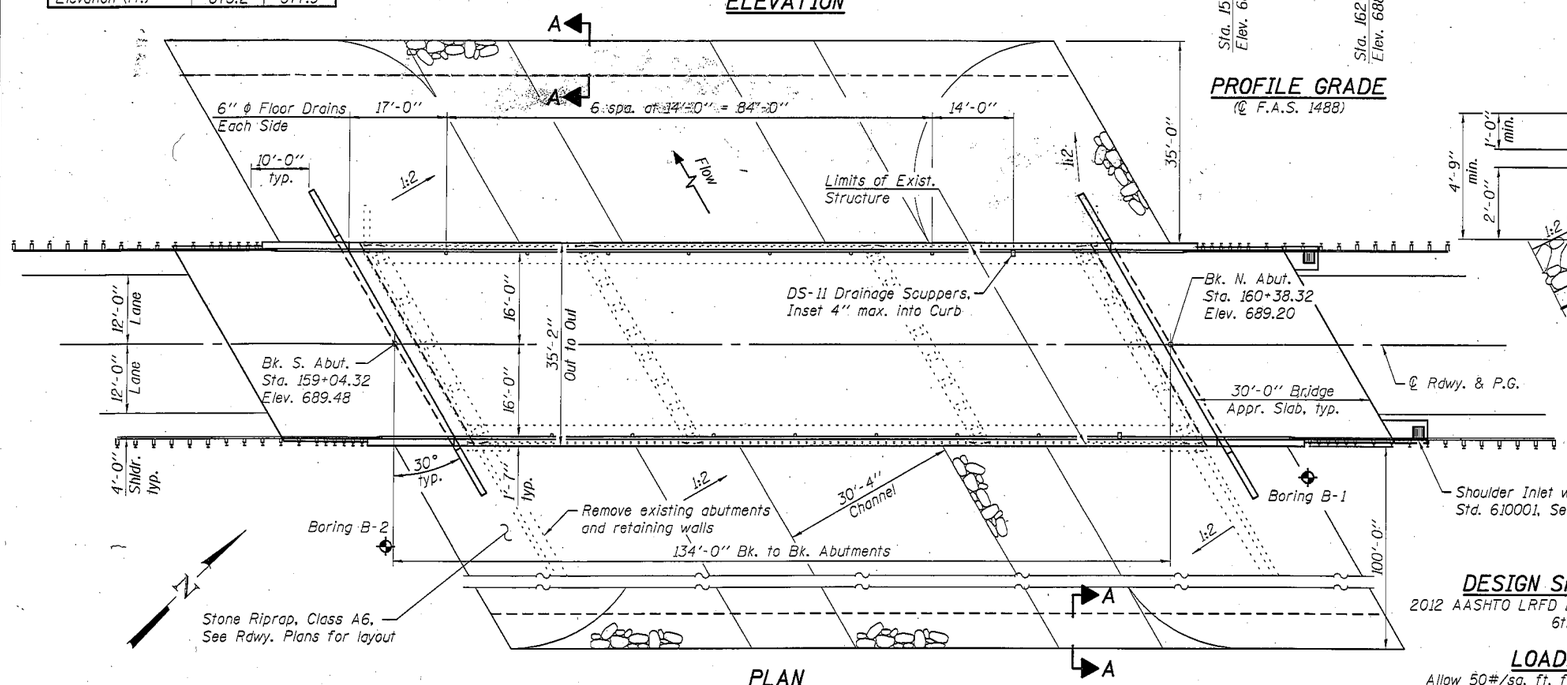
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	N. Abut.
	678.2	677.9

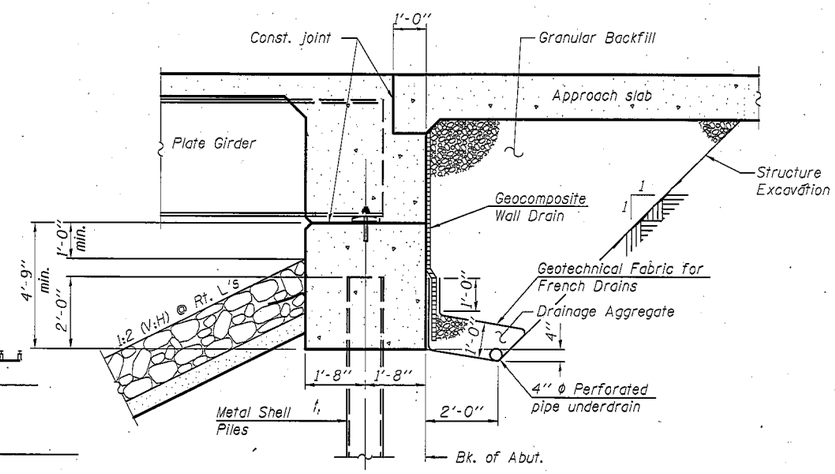


PROFILE GRADE

(℄ F.A.S. 1488)

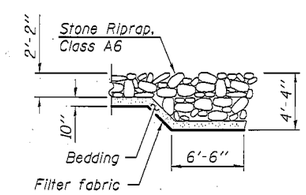


PLAN



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)



SECTION A-A

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

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

SEISMIC DATA

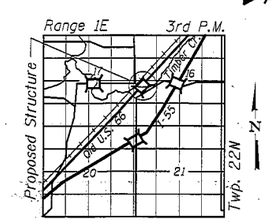
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.089g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.156g
Soil Site Class = C

WATERWAY INFORMATION

Drainage Area = 30.2 sq. mi. Low Grade Elev. 688.45 @ Sta. 162+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	2790	517	636	673.8	0.5	0.3	674.3	674.1
Design	50	4500	651	799	675.8	1.1	0.7	676.9	676.5
Base	100	5260	708	869	676.6	1.3	0.9	677.9	677.5
Max. Calc.	500	7120	834	1025	678.3	1.7	1.2	680.0	679.5

10-Year Velocity = 5.36 fps (Existing)
10-Year Velocity = 4.42 fps (Proposed)



LOCATION SKETCH

HIGHWAY CLASSIFICATION

F.A.S. Rte. 1488 - Old U.S. Rte. 66
Functional Class: Major Collector
ADT: 650 (2011); 750 (2031)
ADTT: 10 (2011); 11 (2031)
DHV: 85
Design Speed: 60 m.p.h.
Posted Speed: 55 m.p.h.
Two-Way Traffic
Directional Distribution: 55:45

GENERAL PLAN
OLD U.S. RTE. 66 OVER TIMBER CREEK
F.A.S. RTE. 1488 - SEC. (17,B2)BR
MCLEAN COUNTY
STA. 159+71.32
STRUCTURE NO. 057-0243

FILE NAME = 70534-0572243-TSL.dgn	USER NAME = baswenson	DESIGNED - BAS	REVISED
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - JAE	REVISED
	PLOT SCALE =	DRAWN - BAS	REVISED
	PLOT DATE = 5/30/2013	CHECKED - RJA	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	(17,B2)BR	MCLEAN		
		CONTRACT NO. 70534		
		ILLINOIS FED. AID PROJECT		