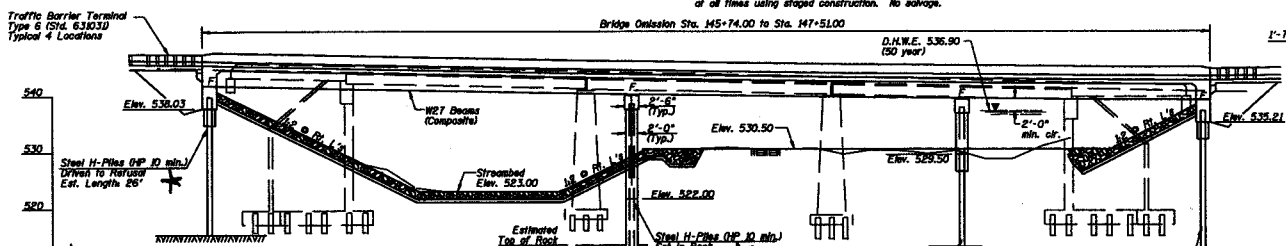
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	7B-1	EFFINGHAM	1	1
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

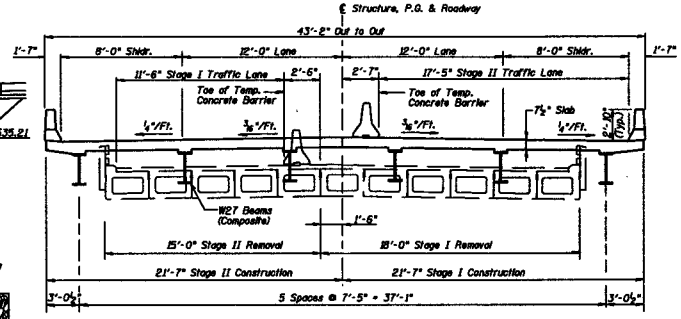
Benchmark: Chisled "□" on 6" Barrier Curb east of Big Salt Creek Bridge. Approximately 41' west of the east end of the left Bridge Guardrail. Elev. 540.23

Existing Structure: Structure Number 025-0035 was built in 1925 as SBI Route 33, Section 7B Sta. 146+63.50. The superstructure was replaced and substructure was widened in 1976 as Section 76R. The existing structure is 33'-0" out-to-out of deck, 129'-0" back-to-back of abutments. It has 21" precast prestressed concrete deck beams with closed abutments on timber piling. One lane of traffic shall be maintained at all times using staged construction. No salvage.



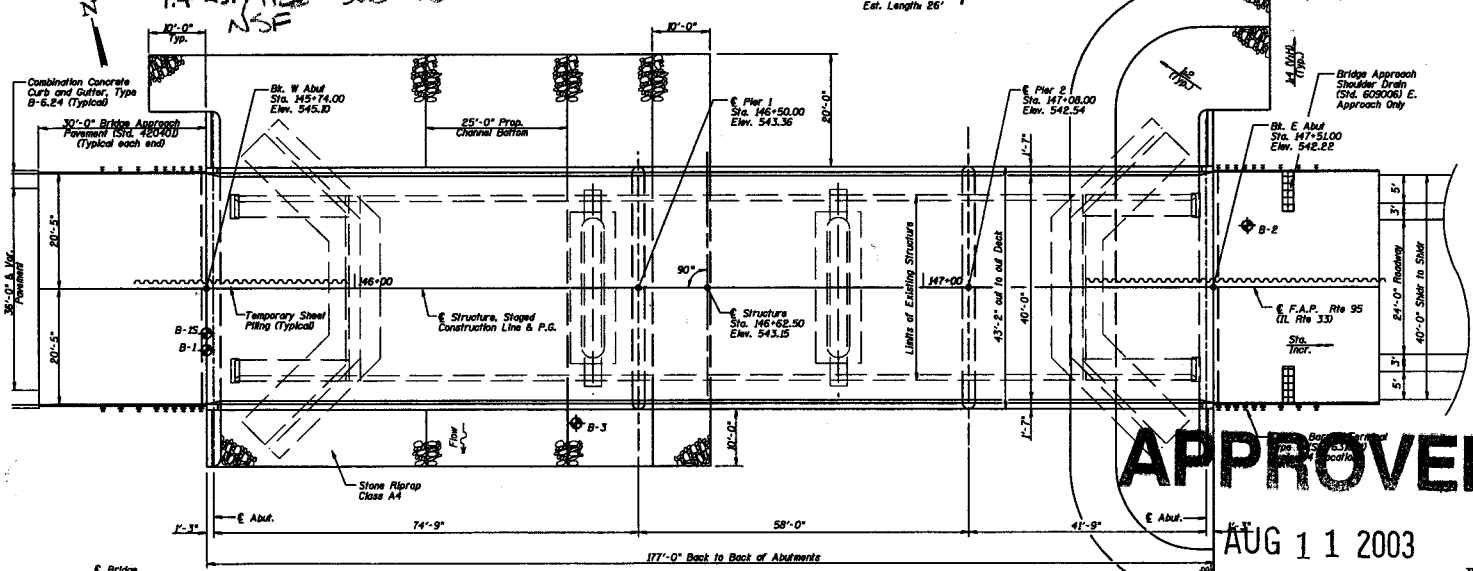
ELEVATION

*LIMIT DESIGN CAP TO 7.4 ksi / PILE DUE TO NSF

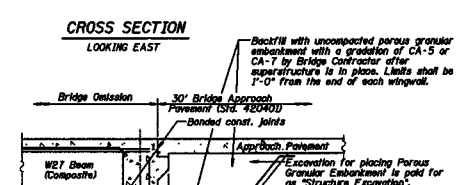


CROSS SECTION

LOOKING EAST



PLAN



Backfill with uncompacted porous granular embankment with a gradation of CA-5 or CA-7 by Bridge Contractor after superstructure is in place. Limits shall be 1'-0" from the end of each wingwall.

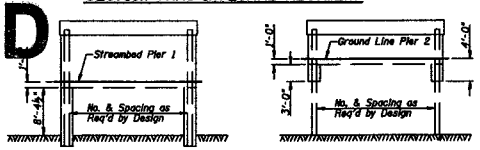
*Included in the cost of Porous Granular Embankment.

SECTION THRU INTEGRAL ABUTMENT

APPROVED

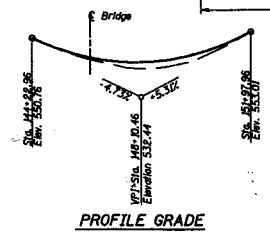
AUG 11 2003

AS A BASIS FOR PREPARATION OF DETAILED PLANS



PIER 1 SKETCH

PIER 2 SKETCH



PROFILE GRADE

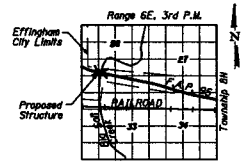
F.A.P. Rte. 95 (IL. Rte. 33)

(Along ℄ Roadway)

WATERWAY INFORMATION

Drainage Area = 34.97 sq.mi.					Low Grade Elev. = 542.13 @ Sta.147+88.09			
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E. Ft.	Head-Ft.		Headwater Elev. - Ft.
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	3089	856	985	535.1	0.3	0.2	535.4	535.3
Design	50	4631	1067	1260	536.9	0.5	0.3	537.4	537.2
Base	100	5274	1142	1361	537.5	0.5	0.4	538.0	537.9
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	6793	1294	1569	538.8	0.6	0.4	539.4	539.2

Maximum Highwater Elevation Unknown



LOCATION SKETCH

HIGHWAY CLASSIFICATION

F.A.P. Route	95
Classification	Other Principal Arterial
D.H.V.	876
A.D.T.	7300 (2000), 11313 (2025)
A.D.T.T.	949 (2000), 1471 (2025)
Design Speed	70 mph
Posted Speed	55 mph

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.075g
Site Coefficient (S) = 1.0

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS-20-44

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

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi

f_y = 60,000 psi (Reinforcement)

f_y = 50,000 psi (Str. Steel-M270 Gr. 50W)

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

ILLINOIS ROUTE 33 OVER

BIG SALT CREEK

F.A.P. ROUTE 95

SECTION 7B-1

EFFINGHAM COUNTY

STA. 146+62.50

STRUCTURE NUMBER 025-0101

DATE: MAY 2003 DRAWN BY: MLO

REVISED: JUNE 2003 CHECKED BY: S.K.

TSL.DGN