

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A.P. RTE. 774	107BY	EFFINGHAM	344	293	29 SHEETS
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-					

CONTRACT NO. 94827

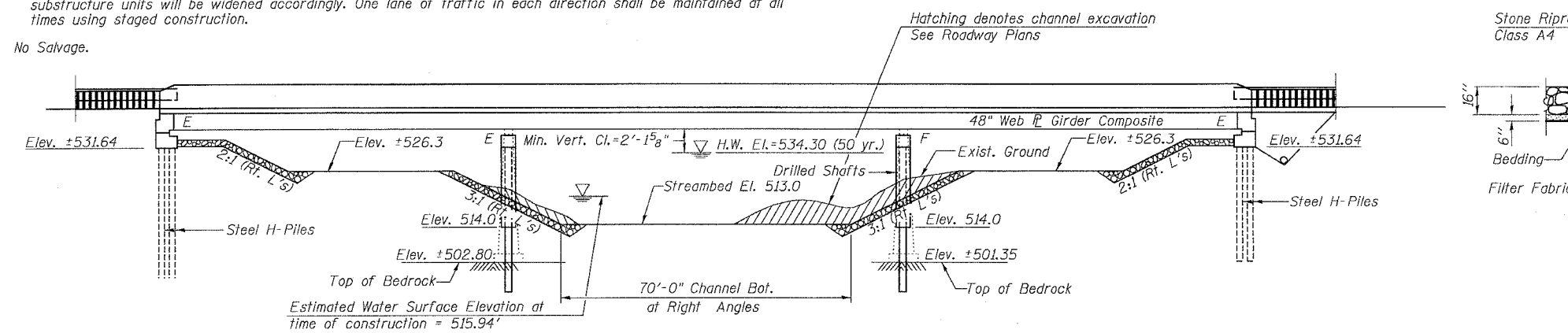
Curve Data

P.I. = Sta. 1014+09.68
 $\Delta = 25^{\circ}19'45"$ (RT)
 $D = 0^{\circ}30'00"$
 $R = 11,456.75'$
 $L = 5,064.76'$
 $T = 2,574.44'$
 $E = 285.69'$
 $S.E. = 1.56\%$
 $P.C. = Sta. 988+35.24$
 $P.T. = Sta. 1039+00.00$
 $S.E. Attained Sta. 985+68.57$ to $Sta. 989+68.57$
 $S.E. Removed Sta. 1037+66.67$ to $Sta. 1041+66.67$

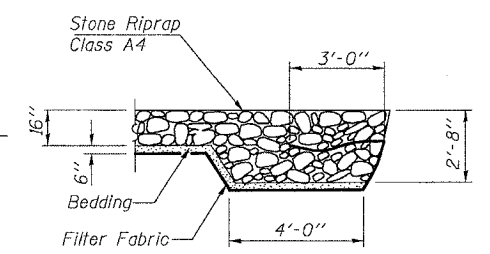
Bench Mark: Chiseled "□" above bridge name plate El. = 543.53

Existing Structure: SN 025-0078 built in 1971 as FA Route 74 at Sta. 1011+47.8. Existing structure is 264'-0" back to back of abutments and 46'-0" out to out of deck. The existing superstructure is supported by 48" Plate Girders. The existing substructure consists of pile bent abutments and solid wall piers on footings. The existing deck is to be removed and replaced with a wider deck to accommodate additional lanes. The existing substructure units will be widened accordingly. One lane of traffic in each direction shall be maintained at all times using staged construction.

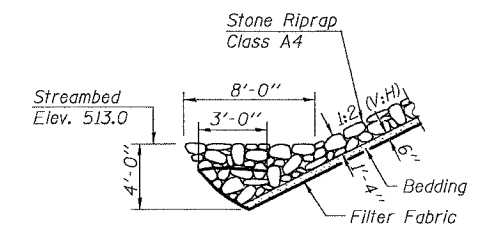
No Salvage.



ELEVATION



SECTION A-A



STONE RIPRAP ANCHOR DETAIL

LOADING HS20-44

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

DESIGN SPECIFICATIONS

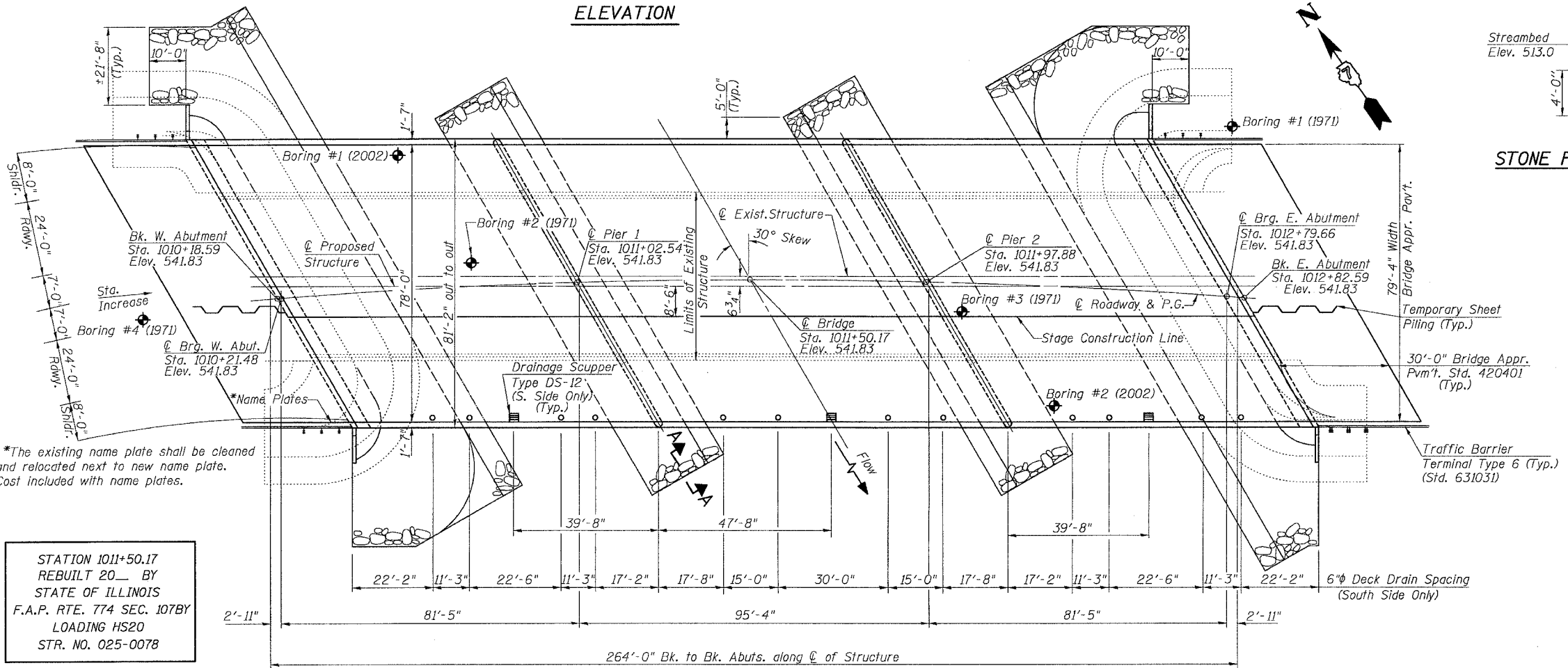
AASHTO 1996 and Interims 1997 Thru 2002 and 1995 Seismic Retrofitting Manual for Highway Bridges FHWA-RD-94-052.

DESIGN STRESSES

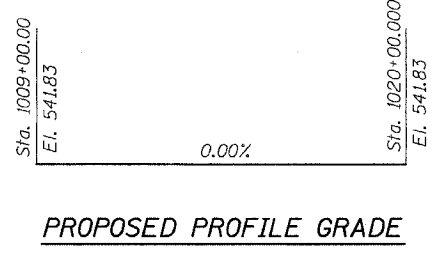
NEW CONSTRUCTION	EXISTING CONSTRUCTION
$f'_c = 3,500$ psi	$f_y = 36,000$ psi St. Steel
$f_y = 60,000$ psi (reinf.)	
$f_y = 36,000$ psi (M270 Grade 36)	

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.07g
 Site Coefficient (S) = 1.0



PLAN



STATION 1011+50.17
 REBUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. RTE. 774 SEC. 107BY
 LOADING HS20
 STR. NO. 025-0078

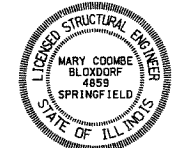
NAME PLATE
 See Std. 515001

WATERWAY INFORMATION

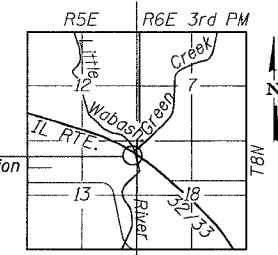
Drainage Area = 220 Sq. Miles		Low Grade Elev. = 541.3 @ Sta. 1010+00 Max. Rec. H.W.E. = Unk.									
Flood	Freq. Yr.	Q _{total} C.F.S.	Q _{bridge} C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Exist.	Prop.	Headwater El.
Design	50	19,000	11272	2521	2521	534.3	0.5	0.5	534.8	534.9	
Base	100	21,700	12690	2687	2687	535.0	0.5	0.5	535.5	535.5	
Max. Calc.	500	28,000	16171	3037	2962	536.7	0.6	0.7	537.3	537.4	

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Robert E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES



Mary Coombe Bloxdorf
 Illinois Structural No. 4859
 Expires 11-30-2004
 Date: 12/23/03



SHEET TITLE		GENERAL PLAN AND ELEVATION	
PROJECT	IL RTE. 32/33 OVER LITTLE WABASH RIVER	PROJECT NO.	02017
	F.A.P. RTE. 774 SECTION 107BY	SCALE	
	EFFINGHAM COUNTY	DATE	
	STATION 1011+50.17	DRAWN BY	TFG
	STRUCTURE NO. 025-0078	CHECKED BY	GJB/MCB
COOMBE-BLOXDORF P.C.		DRAWING NO.	
Engineers / Land Surveyors		1	
Springfield, Illinois		OF 29 SHTS	
Design Firm License No. 184-002703			