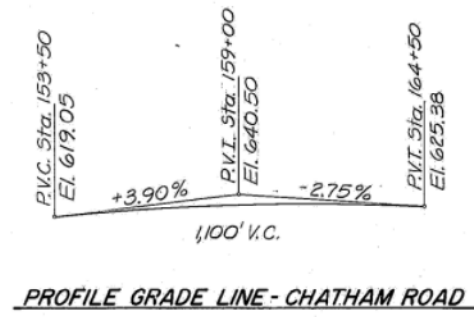
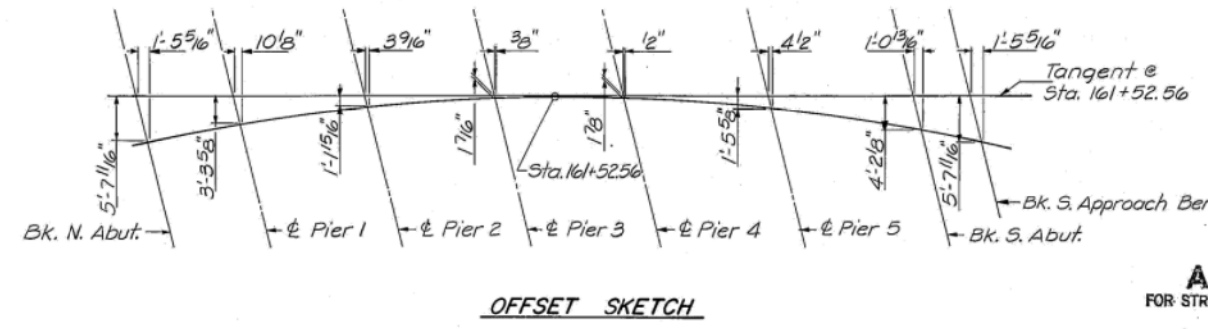
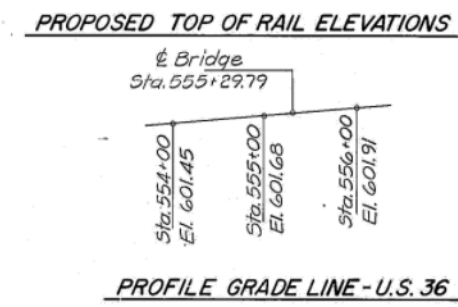


HORIZ. CURVE DATA

P.I. Sta. 161+12.74
 $\Delta = 27^\circ 54' 28.8''$
 $D_c = 0^\circ 52' 30''$
 $R = 6548.09'$
 $L = 3189.49'$
 $T = 1627.04'$
 $E = 199.11'$
 $S.E. = 0.02\%$

PROPOSED TOP OF RAIL ELEVATIONS

Sta. 140+00	El. 602.76
Sta. 141+00	El. 602.90
Sta. 142+00	El. 603.03
Sta. 143+00	El. 603.16
Sta. 144+00	El. 603.30
Sta. 145+00	El. 603.43



DESIGN STRESSES

Precast Prestressed Units:
 $f_c = 5,000$ p.s.i.
 $f_{ti} = 4,000$ p.s.i.
 $f_s = 270,000$ p.s.i. (1/2" Strands)
 $f_{si} = 189,000$ p.s.i. (1/2" Strands)
 Concrete: Load Factor Design
 $f_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinf.)
 Structural Steel: Load Factor Design
 $f_y = 50,000$ p.s.i. (M-223 Gr. 50, Flanges)
 $f_y = 36,000$ p.s.i. (M-183, Web)
 Loading: AASHTO HS 20-44
 Allowance for 25 p.s.f. Fut. W.S., 1983 AASHTO Specifications with 1984 thru 1988 Interim Specs.

FOR INFORMATION ONLY



STRUCTURE NUMBER: 084-0185

GENERAL PLAN & ELEVATION
 CHATHAM ROAD over
 C.M.W. and N.&W. Railroads and FAP RTE 40B
 USABLE SEGMENT NO. 3, VB-1
 SANGAMON COUNTY
 STATION 161+52.56

DESIGNED J.E.H.
 CHECKED T.E.H.
 DRAWN D.A.B.
 CHECKED T.E.H.

HANSON ENGINEERS
 INCORPORATED
 SPRINGFIELD, PEORIA & ROCKFORD, ILLINOIS

FILE NO. 655,309?
 DATE 12-14-89

Sta. 142+53.93
 Built 199_ By
 State of Illinois
 Spfld. R.R. Rel. Sec. 3VB-1
 F.A. Proj RR-1(7)
 LOADING HS20
 Str. No. 084-0185



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
 Engineer of Bridges and Structures

NAME PLATE
 See Standard 2113



USER NAME =	DESIGNED - CEH	REVISED
FILE NAME =	CHECKED - CWC	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - CEH/CWC	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
 STRUCTURE NO. 084-0185
 SHEET NO. 10 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		SANGAMON	163	147
CONTRACT NO. 72B54			ILLINOIS FED. AID PROJECT	