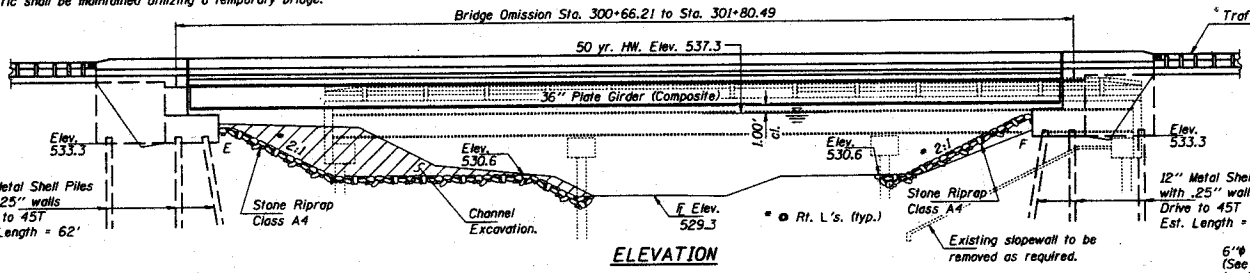
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 313	(7BY)BR	HENDERSON	2	1
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

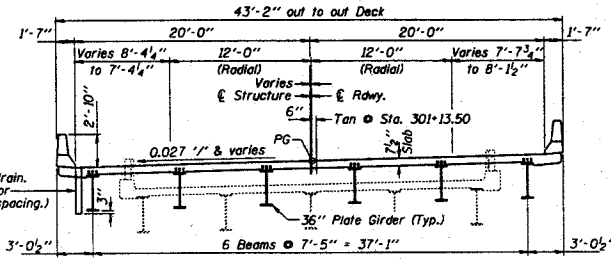
Benchmark: Top chiseled " □ " in top of SE wingwall 18' right of Sta. 300+69, Elev. 541.19

Existing Structure: #036-0002 Built in 1938 as SBI 8 ⊙ Sta. 301+37 of US 34. It measures 103'-0" bk.-bk. abutments by 30'-0" fa.-fa. curbs. The structure is a three span rc slab on steel wide flange beams. The substructure consists of concrete split thru abutments and pile bent piers.
The Contractor shall remove the existing structure as required and replace it with a single span plate girder superstructure on pile bent abutments.
Traffic shall be maintained utilizing a temporary bridge.

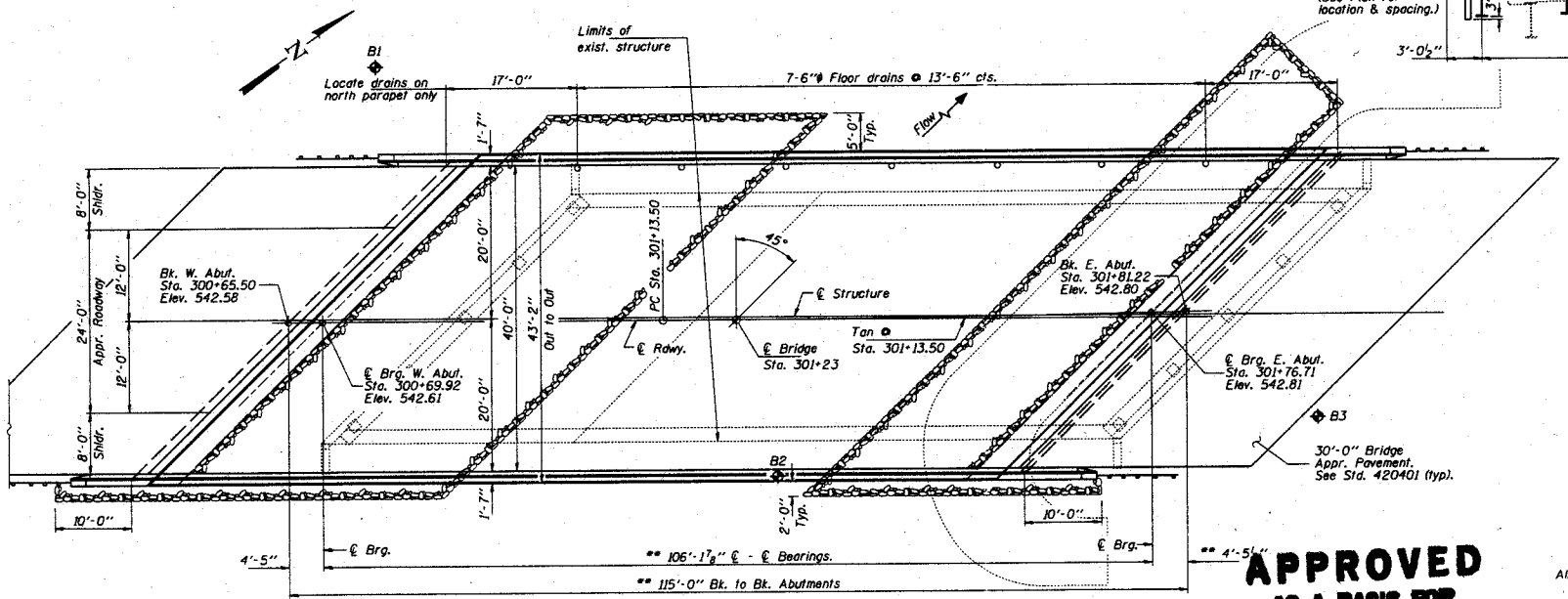
No Salvage.



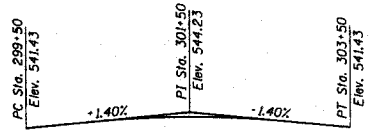
ELEVATION



CROSS SECTION
(Looking East)



PLAN
** Along ℄ Structure



PROFILE GRADE
400' VC

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = .04g
Site Coefficient (S) = 1.5

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
1996 AASHTO with 1997 thru 1999 Interims

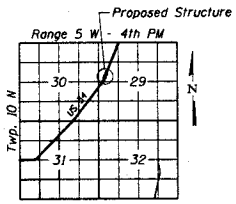
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (structural steel) (M270 Gr. 50W)

HIGHWAY CLASSIFICATION
FAP Rte. 313 US Rte. 34
Functional Class: Other Principal Arterial
ADT: 6300 (1997); 6710 (2015)
DHV: 1320
Design Speed: 55 m.p.h.
Posted Speed: 55 m.p.h.

WATERWAY INFORMATION

Drainage Area = 7.7 Sq. Mi. (Total) Low Grade Elev. 538.6 ⊙ Sta. 311+68

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.
Temp. Runaround	5	690	N/A	200	535.5	N/A	0.7	N/A	536.2
Design	50	1480	318	398	537.3	0.7	0.3	538.0	537.6
Base	100	1730	341	436	537.8	0.4	0.3	538.2	538.1
Max. Calc.	500	2340	341	474	538.8	0.4	0.5	539.2	539.3



LOCATION SKETCH

CURVE DATA
PI Sta. = 307+30.60
Δ = 21°-56'-52"
D = 1°-48'-01"
R = 3183.46'
T = 617.10'
L = 1219.64'
E = 59.28'
PC Sta. = 301+13.50
PT Sta. = 313+33.14
SE = 0.027 '/'
SE Transition Length = 165' (55 m.p.h.)
SE Transitions:
Attained from Sta. 300+03.00 to Sta. 301+68.00
Removal - N/A

APPROVED
AS A BASIS FOR
PREPARATION OF DETAILED PLANS

JUN 07 2001

GENERAL PLAN
U.S. 34 OVER P.D. CREEK
FAP 313 SECTION (7BY)BR
HENDERSON COUNTY
STATION 301+32 STRUCTURE NO. 036-0052

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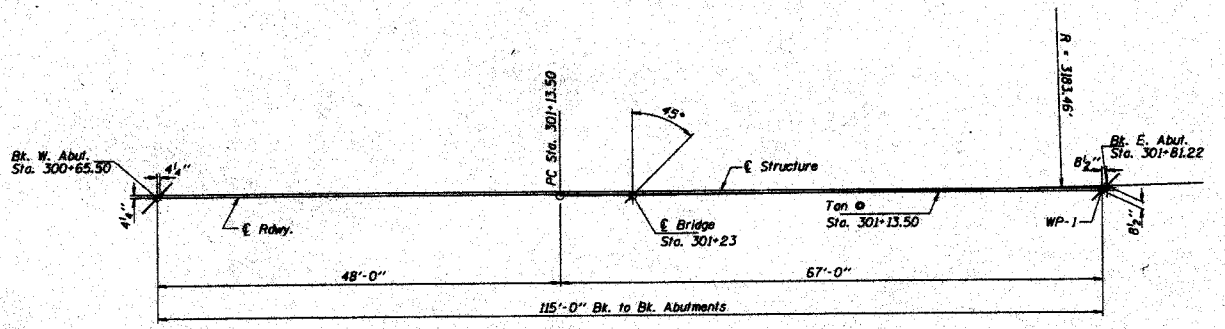
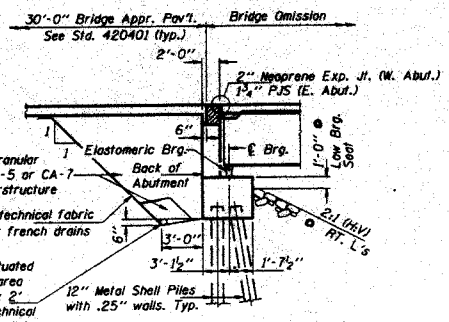
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 313	(78Y)BR	HENDERSON	2	2
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		



OFFSET SKETCH



Backfill with uncompacted Porous Granular Embankment with a gradation of CA-5 or CA-7 by Bridge Contractor after all superstructure work is completed.

* Geotechnical fabric for french drains

* A 6"Φ perforated drain pipe shall be situated at the bottom of an approximate 2' x 2' area of porous granular embankment. The 2' x 2' area shall be wrapped completely in geotechnical fabric for french drains. Extend pipe parallel with the cap until intersecting with the sideslope and riprap.

* Cost included with "Porous Granular Embankment".

SECTION THRU ABUTMENTS
At Rt. L's

APPROVED
AS A BASIS FOR
PREPARATION OF DETAILED PLANS

JUN 07 2001

DETAILS
U.S. 34 OVER P.D. CREEK
FAP 313 SECTION (78Y)BR
HENDERSON COUNTY
STATION 301+32 STRUCTURE NO. 036-0052