Benchmark: B.M. 4003-6: R.R. Spike in West Face of Power Pole South of U.S. 34 @ Sta. 322+92, 822' RT. - Elev. 541.61

Existing Structure: None

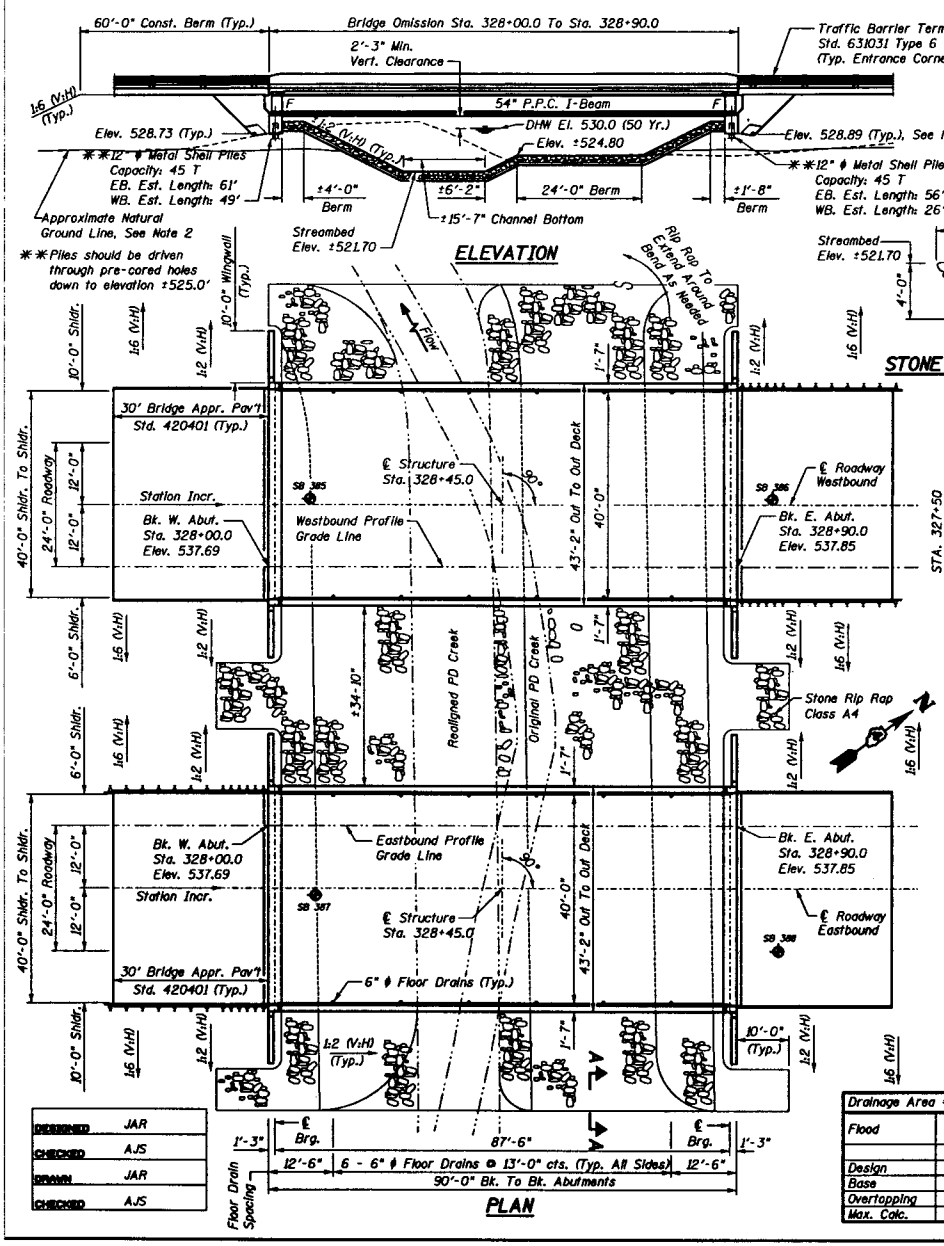
Notes:
1. Settlement plates required at east abutments.
2. Remove existing levees to ±525.0'

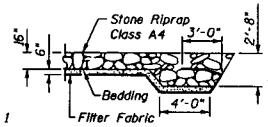
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 313	7B (BR)	HENDERSON	1	1

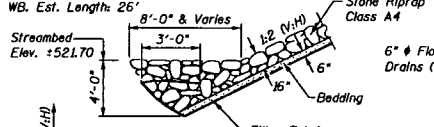
SHEET NO. 1 / 1 SHEETS

FEDERAL ROAD DISTRICT NUMBER 7 — ILLINOIS FEDERAL AID PROJECT D-94-055-02

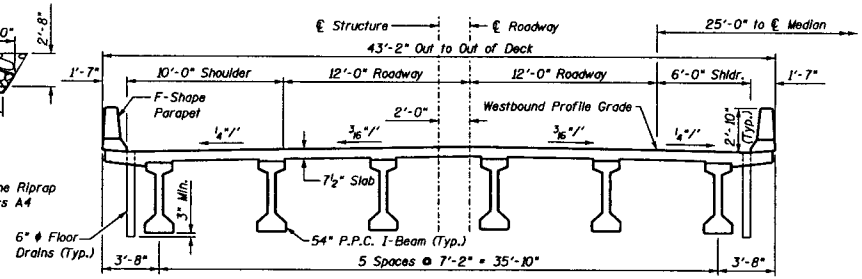




SECTION A-A

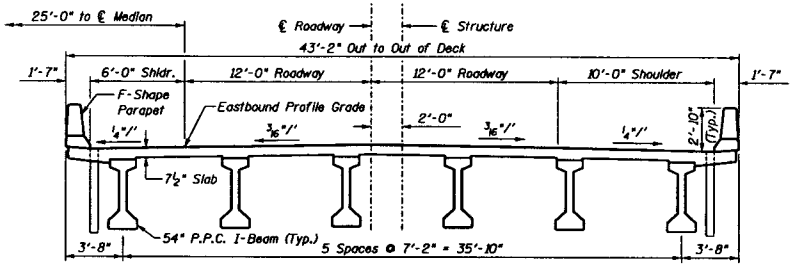


STONE RIPRAP ANCHOR DETAIL



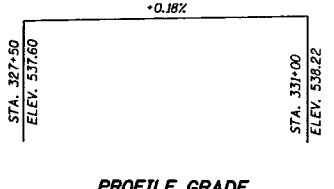
CROSS SECTION (WEST BD. LANES)

(Looking East)

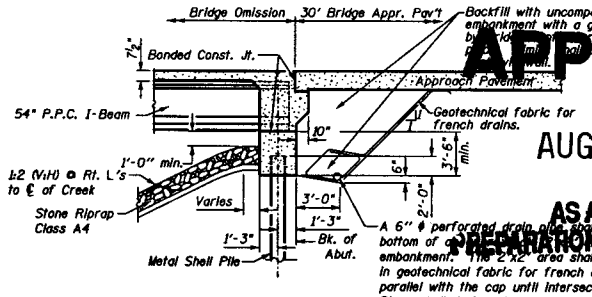


CROSS SECTION (EAST BD. LANES)

(Looking East)



PROFILE GRADE



SECTION THRU INTEGRAL ABUTMENT

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

*Included in the cost of Porous Granular Embankment

APPROVED

AUG 30 2005

AS A BASIS FOR PREPARATION OF DETAILED PLANS

HIGHWAY CLASSIFICATION

F.A.P. Route 313 - U.S. Route 34
Functional Class: Other Principal Arterial
ADT: 7,500 (2001); 10,700 (2025)
DHV: 1,070
Design Speed: 70 m.p.h.
Posted Speed: 55 m.p.h.

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'_c = 6,000 psi
f'_{ci} = 5,000 psi
f'_s = 270,000 psi (1/2"ϕ low lax. strands)
f_{si} = 201,960 psi (1/2"ϕ low lax. strands)

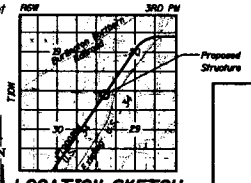
SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.037g
Site Coefficient (S) = 1.0

WATERWAY INFORMATION

Drainage Area = 6.63 sq. mi. Low Grade Elev. 538.3 @ Sta. 336+30.63

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	1250	-	369	529.7	-	0.7	-	530.4
Design	50	1480	-	391	530.0	-	0.8	-	530.8
Base	100	1730	-	391	530.0	-	1.0	-	531.0
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	2340	-	391	530.0	-	1.8	-	531.8



LOCATION SKETCH

DESIGNED	JAR
CHECKED	AJS
DRAWN	JAR
CHECKED	AJS

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
U.S. RTE. 34 OVER PD CREEK
F.A.P. RTE. 313 SECTION 7B (BR)
HENDERSON COUNTY
STATION 328+45.0
STR. NO. 036-0060 (EB) & 036-0061 (WB)

SCALE: NONE — DATE: 08/19/2005