APPROVED

APR 17 2003

B.M. 3014 - Railroad spike in 760 mm (30") diameter tree located near west edge of field. Sta. 35+362.7, 30.8 m Rt., Elev. 149.445

Existing Structure: None

Note: All dimensions are in millimeters (mm) except as noted.

⊕ Thickness may be refined in final design

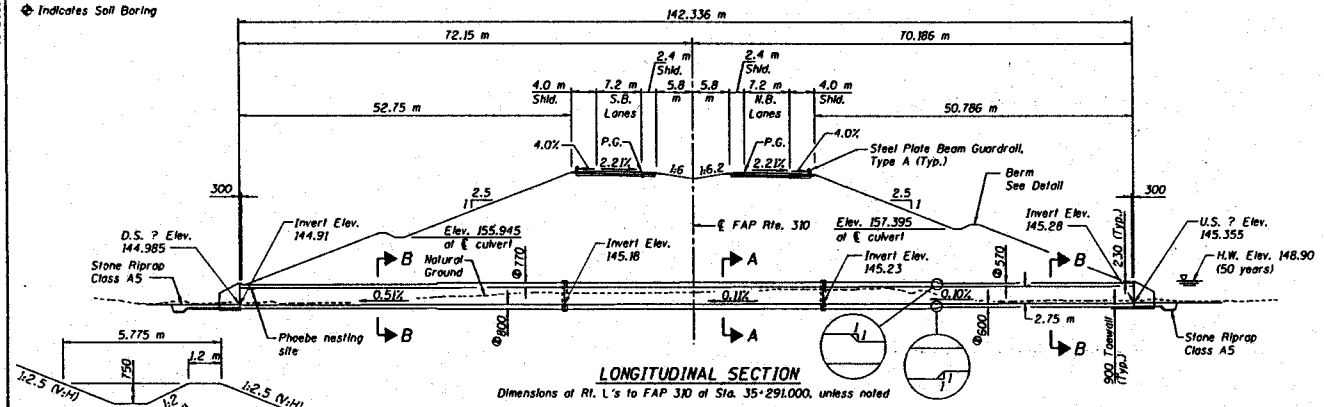
⊕ Indicates Soil Boring

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

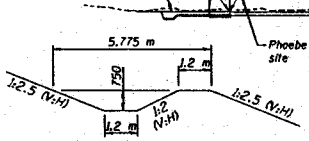
F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15	MADISON		1

1 SHEETS



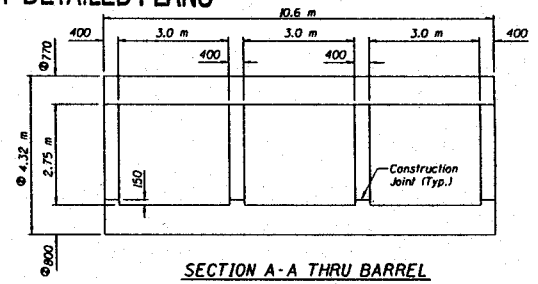
LONGITUDINAL SECTION

Dimensions at Rt. L's to FAP 310 at Sta. 35+291.000, unless noted

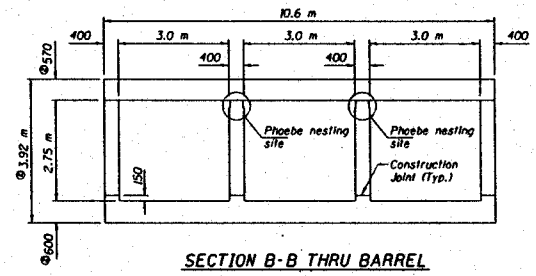


BERM DETAILS

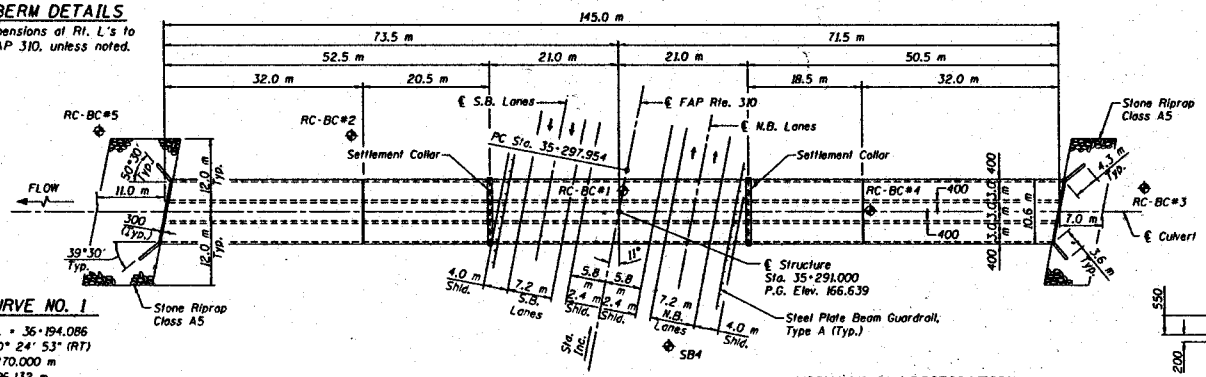
Dimensions at Rt. L's to FAP 310, unless noted.



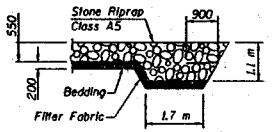
SECTION A-A THRU BARREL



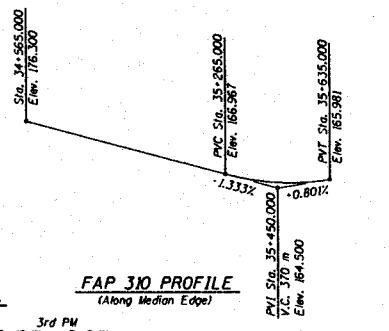
SECTION B-B THRU BARREL



PLAN



FLANK STONE RIPRAP DETAIL



FAP 310 PROFILE

(Along Median Edge)

CURVE NO. 1

PI Sta. = 36+194.086
Δ = 70° 24' 53" (RT)
R = 1270.000 m
T = 896.132 m
L = 1560.792 m
E = 284.333 m
PC Sta. = 35+297.954
PT Sta. = 36+858.745
SE = 4.1%
SE Attained Sta. 35+238.000 To Sta. 35+318.000
SE Removed Sta. 36+839.000 To Sta. 36+919.000

HIGHWAY CLASSIFICATION

FAP Rte. 310 (IL 255)
Functional Class: Principal Arterial (Freeway)
ADT: 15,000 (2004); 22,300 (2024)
Design Speed: 110 km/hr
Posted Speed: 105 km/hr

WATERWAY INFORMATION

Drainage Area = 8.82 sq. km Low Grade Elev. 165.425 @ Sta. 35+496.180

Flood	Freq. Yr.	Q C.M.S.	Opening m² Exist.	Opening m² Prop.	⊕ Nat. H.W.E.	Head - m Exist.	Head - m Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	72.4	n/a	24.75	148.90	n/a	0.00	n/a	148.90
Base	100	83.8	n/a	24.75	149.03	n/a	0.24	n/a	149.27
Overtopping	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Max. Calc.	500	111.9	n/a	24.75	142.28	n/a	1.10	n/a	150.38

⊕ at upstream face of culvert

LOADING MS18

Allow 2.4 kN/m² for future wearing surface.

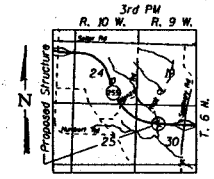
DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

f'_c = 24 MPa
f_y = 420 MPa (reinforcement)



LOCATION SKETCH

GENERAL PLAN
FAP RTE 310 (IL RTE 255)
OVER ROCK CREEK
SECTION 60-15B
MADISON COUNTY
STATION 35+291.000
S.N. 060-2043

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL
CHECKED	WLW

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