ROUTE NO.	SECTION	COUNTY	PROJ. NO.	SHEET NO.
F.A.P. 798	107-BR-1	Ford		
PROJ. FINAL SHEET NO. 3	ALIGNMENT	PROJ. NO. PROJECT		

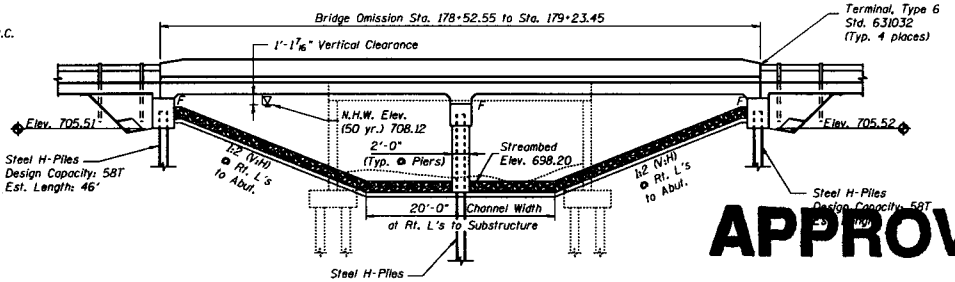
SHEET NO. 1
1 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

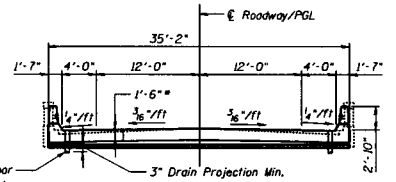
Bench Mark #2:
Iron Bar Set. Sta. 178+37.62, 19.16' Lt.
Elevation = 709.69

Existing Structure: S.N. 027-0040. Built in 1929 as a ±30' Single Span R.C. Slab Bridge 36'-3" Wide (Out - to - Out) With Closed Concrete Abutments Supported on Untreated Timber Piles.
Bridge Shall be Closed to Traffic During Reconstruction.

No Salvage.



ELEVATION



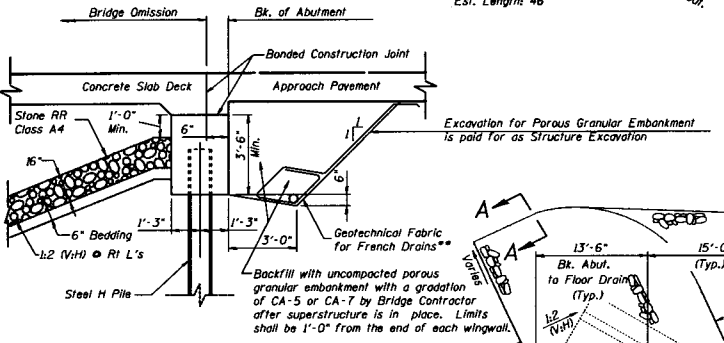
CROSS SECTION

* Slab thickness may be refined in final design

APPROVED

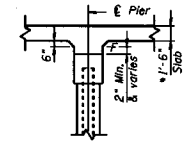
AUG 19 2005

AS A BASIS FOR PREPARATION OF DETAILED PLANS

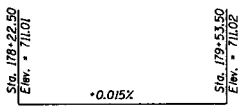


SECTION THRU ABUTMENT

**Included in the cost of Porous Granular Embankment

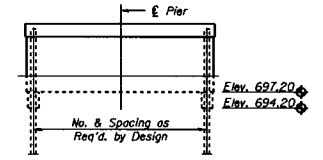


SECTION THRU PIER

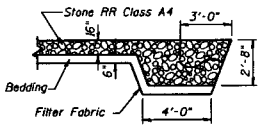


PROFILE GRADE

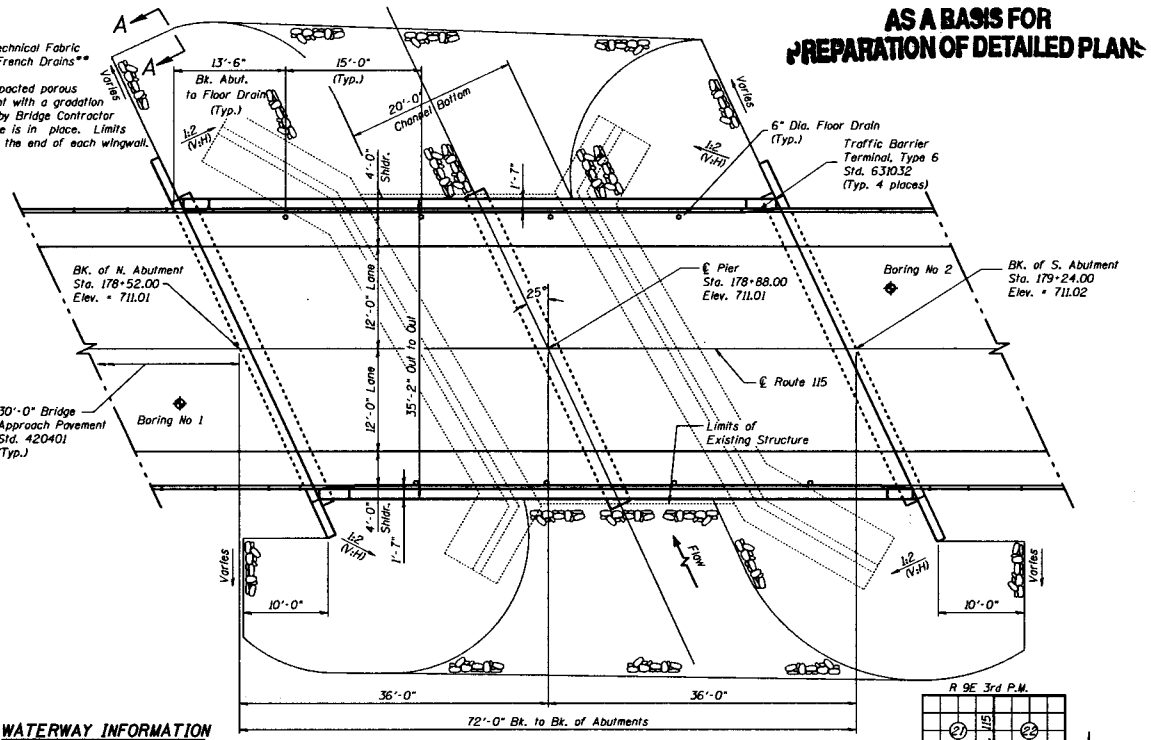
(along ℄ roadway)



PIER SKETCH



SECTION A-A



PLAN

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.045 g
Site Coefficient (S) = 1.2

HIGHWAY CLASSIFICATION

FAP Rte 798 - IL Rte 115
Class: Minor Arterial (Rural)
ADT: 600 (2001); 900 (2023)
DHV: 60 (2001); 90 (2023)
Design Speed: 55 M.P.H.
Posted Speed: 55 M.P.H.

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

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

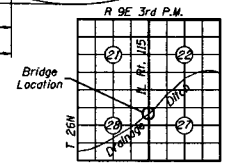
DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

WATERWAY INFORMATION

Drainage Area = 6.2 mi² Low Grade Elev. 710.76 ft. @ Sta. 182+00

	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	896	185	280	706.63	0.24	0.06	706.87	706.69
Design	50	1,353	219	356	708.12	0.58	0.14	708.70	708.26
Base	100	1,543	222	372	708.40	1.13	0.19	709.53	708.59
Max. Calc.	500	1,988	222	389	708.68	1.99	0.33	710.67	709.01



LOCATION SKETCH

DESIGNED	MOH
CHECKED	RGD
DRAWN	WJH
CHECKED	NRF

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 SECTION 107 BR-1
FORD COUNTY
STA. 178+88.00
SN 027-0095

DATE 06-10-2005