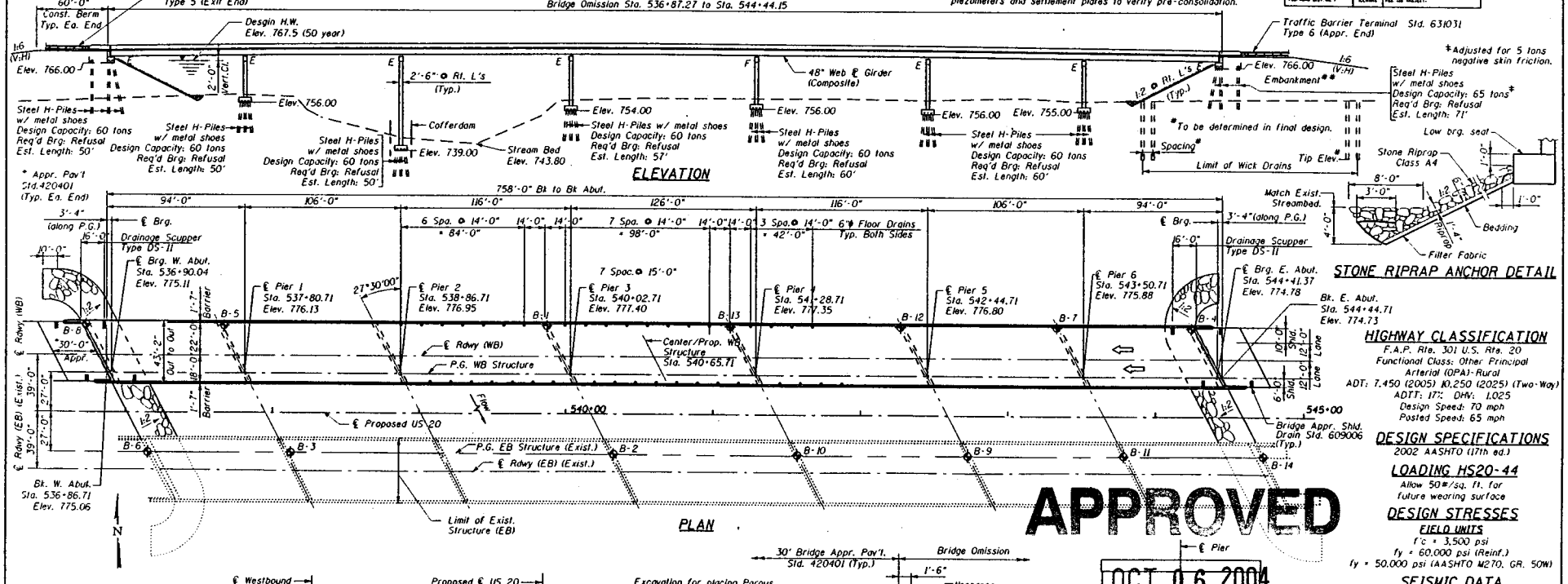
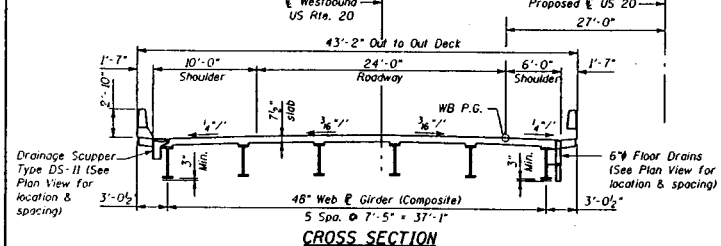
Bench Mark: PT. #61 Iron rod in cap. Station 545+17.14. Elevation 770.77. Offset 65.08 Right. North = 2063761.44. East = 2429432.89.
Existing Structure: None. The existing adjacent structure (SN 089-0045) is Eastbound only.

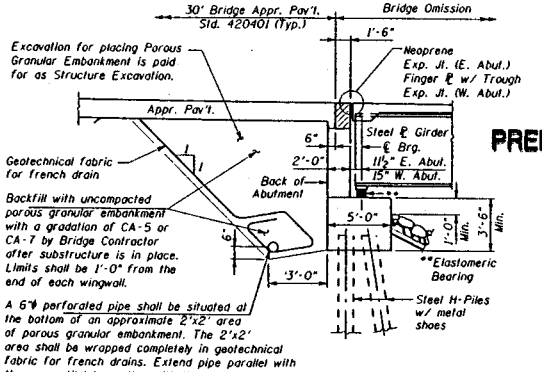
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

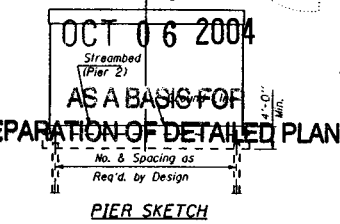
** Embankment plus 3 feet at surcharge is to be placed three (3) months minimum prior to pile installation and abutment construction to allow for at least 95% consolidation of the compressible soil. The rate of settlement is to be monitored by piezometers and settlement plates to verify pre-consolidation.

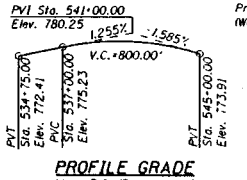
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 301	177-2	STEPHENSON		1 / 1 SHEETS











HIGHWAY CLASSIFICATION

F.A.P. Rte. 301 U.S. Rte. 20
Functional Class: Other Principal Arterial (OPA)-Rural
ADT: 7,450 (2005) 10,250 (2025) (Two-Way)
ADTT: 17% DHV: 1,025
Design Speed: 70 mph
Posted Speed: 65 mph

DESIGN SPECIFICATIONS

2002 AASHTO (17th ed.)

LOADING HS20-44

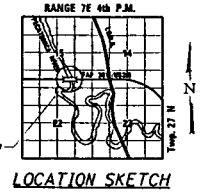
Allow 50#/sq. ft. for future wearing surface

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)
fy = 50,000 psi (AASHTO M270, GR. 50W)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.032g
Site Coefficient (S) = 1.0



APPROVED
OCT 06 2004
AS A BASIS FOR PREPARATION OF DETAILED PLANS

WATERWAY INFORMATION TABLE

Exist. Low Grade Elev. 767.9 @ Sta. 551+00
Drainage Area = 1296 sq. miles — Low Grade Elev. 768.1 @ Sta. 528+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	13000	5219	5219	765.0	0.4	0.4	765.4	765.4
Design	50	20700	6381	6381	766.8	0.7	0.7	767.5	767.5
Base	100	24800	7345	7345	768.4	0.7	0.8	769.1	769.2
Overtopping	68	22200	6769	6769	767.4	0.7	0.7	768.1	768.1

10 Year Velocity through Exist. Bridge = 2.5 fps 10 Year Velocity through Prop. Bridge = 2.5 fps

DESIGNED	JZ
CHECKED	JIG
DRAWN	JZ
CHECKED	JIG

LEGEND

1975 Soil Boring location shown thus: B-1

GENERAL PLAN
U.S. ROUTE 20 OVER
PECATONICA RIVER
PUBLIC WATER
F.A.P ROUTE 301 SECTION 177-2
STEPHENSON COUNTY
STATION 540+65.71
STRUCTURE NO. 089-0082