Benchmark: Top of Northeast wingwall of S.N. 050-0056 Sta. 420+17 19' left Elev. = 633.31

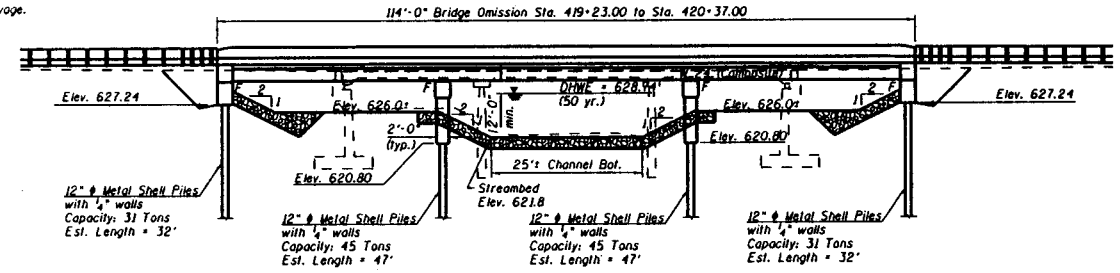
Existing Structure: S.N. 050-0056. Three span, continuous, 12" cast-in-place concrete slab bridge on precast pile bent piers and closed abutments. The overall length is 71' long and the overall width is 36'-4'. Built in 1956 with 1.5" bituminous overlay added in 1998. The Contractor shall remove the existing structure in stages and replace it with a three span wide flange beam with a reinforced concrete deck superstructure on encased pile bent piers and integral abutments.

No Salvage.

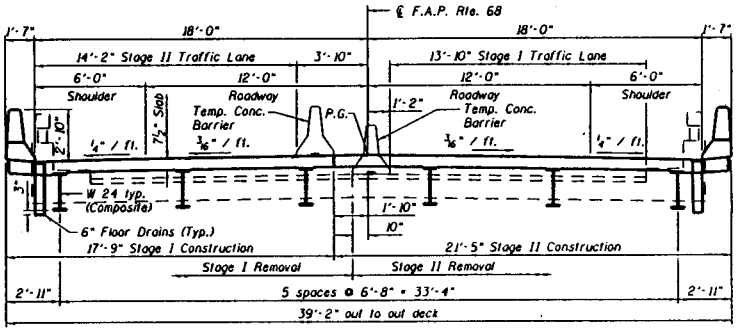
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P.	(3)BR-1	LASALLE	1	1

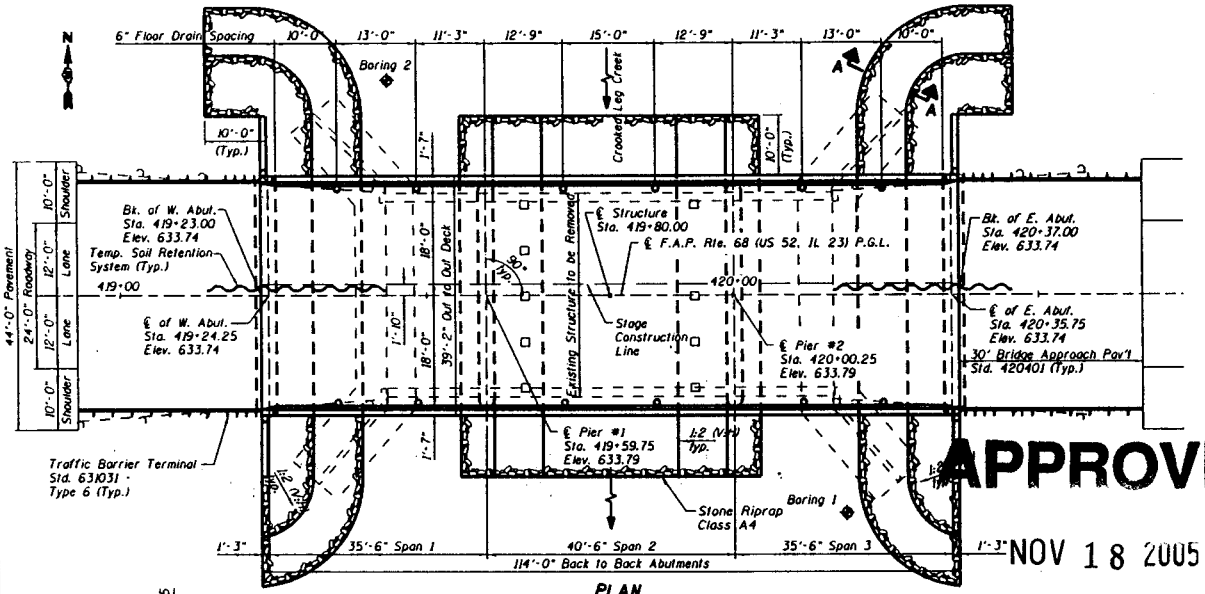
SHEET NO. 1 OF 1 SHEETS



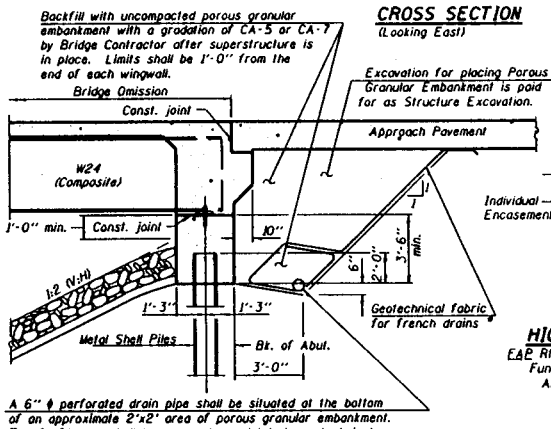
ELEVATION



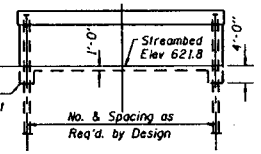
CROSS SECTION
(Looking East)



PLAN



SECTION THRU INTEGRAL ABUTMENT



PIER SKETCH

HIGHWAY CLASSIFICATION
EAB Rte. 68 - US Rte. 52, IL Rte. 23
Functional Class: Rural Minor Arterial
ADT: 2900 (2000); ADTT: 647
DHV: 290
Design Speed: 55 m.p.h.
Posted Speed: 55 m.p.h.

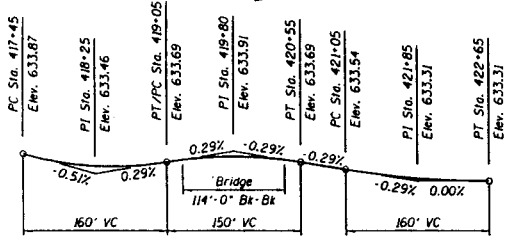
LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2002 AASHTO 17th Edition

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (reinf.)
fy = 50,000 psi (M270 Grade 50W)

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.038g
Site Coefficient (S) = 1.0

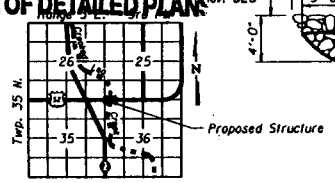
APPROVED
NOV 18 2005
AS A BASIS FOR PREPARATION OF DETAILED PLANS



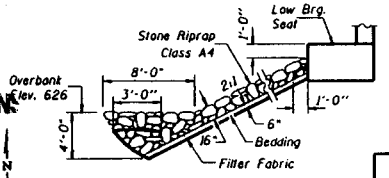
PROFILE GRADE
(Along ℄ of Roadway)

WATERWAY INFORMATION

Drainage Area = 21.36 Sq. Mi.			Low Grade Elev. 632.65 @ Sta. 419+80						
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.
Design	50	1068	284.6	376.9	628.74	0.23	0.13	628.97	628.87
Base	100	1197	298.1	397.7	628.94	0.29	0.17	629.23	629.11
Overtopping									
Max. Calc.	500	1493	323.7	437.2	629.32	0.41	0.25	629.73	629.57



LOCATION SKETCH



SECTION A - A

GENERAL PLAN
US ROUTE 52 AND IL ROUTE 23 OVER
CROOKED LEG CREEK
F.A.P. ROUTE 68 SECTION (3) BR-1
LASALLE COUNTY
STATION 419+80.00
STRUCTURE NUMBER 050-0240