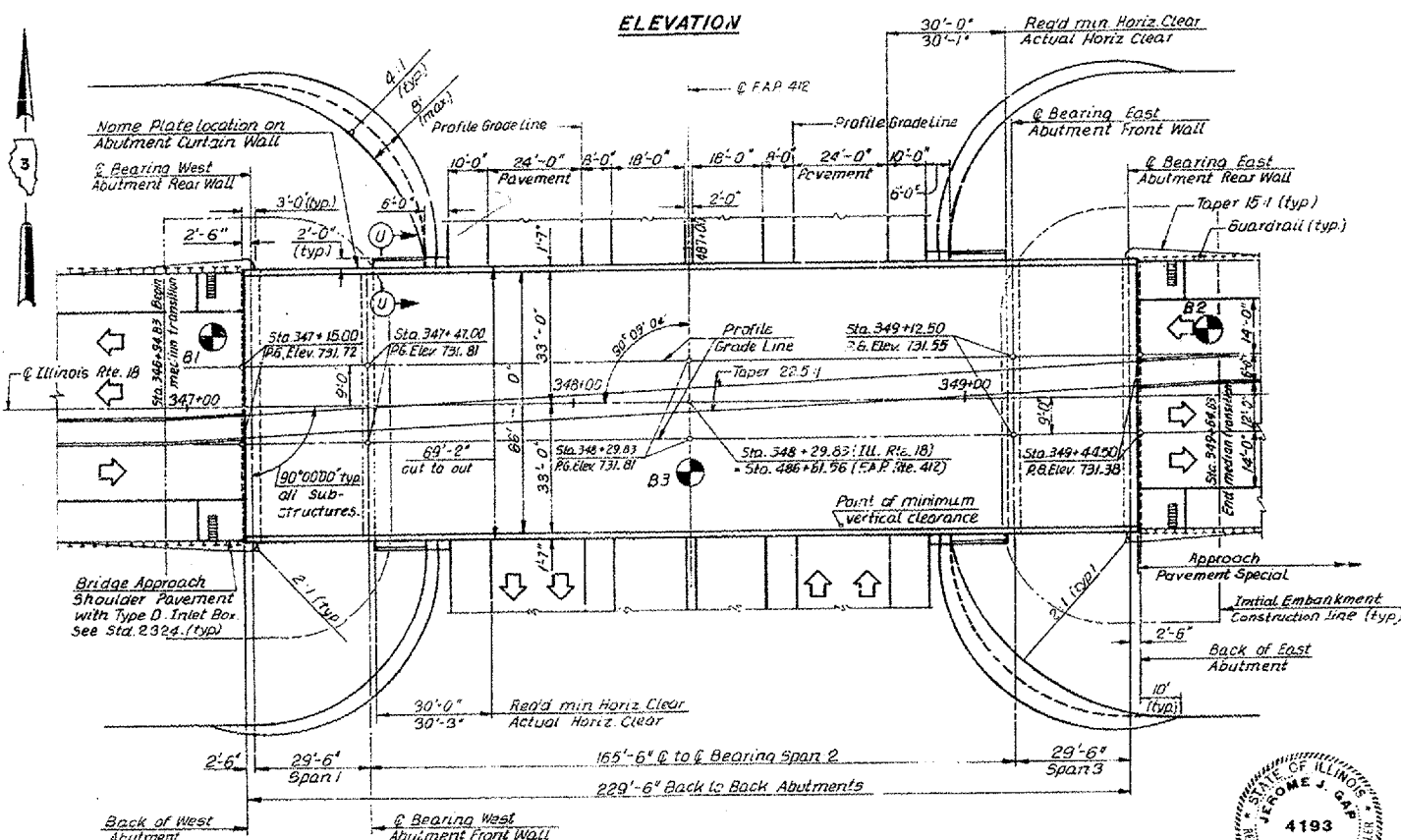
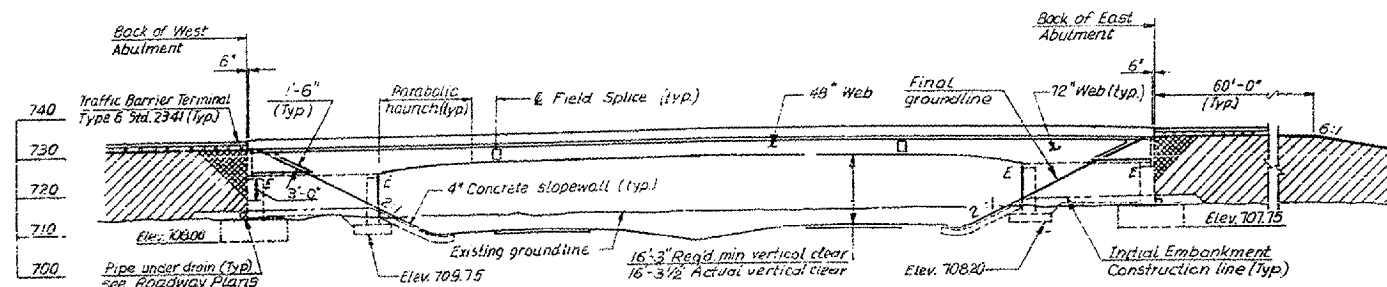
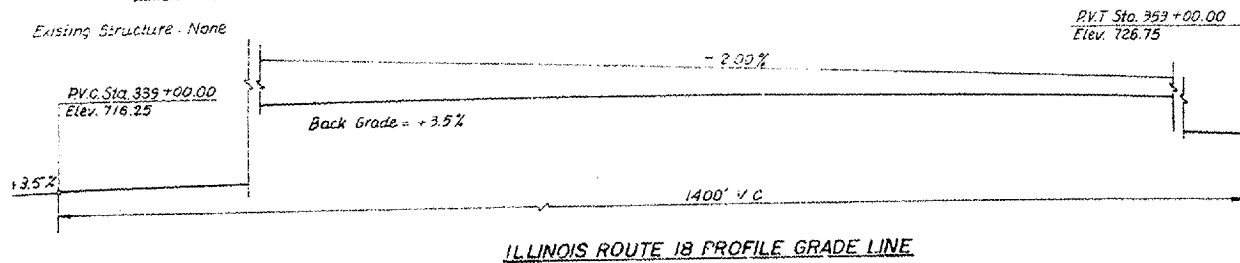


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	50(IHB-2,1HB)BP	LASALLE	17	13
ILLINOIS				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bench Mark: Benchmark #7 is a railroad spike in the power pole at the proposed southwest corner of the intersection of Illinois Route 18 and F.A.P. Route 412. Elevation 77.177.

Existing Structure - None



SPECIFICATIONS

DESIGN SPECIFICATIONS: American Association of State Highway and Transportation Officials (AASHTO) Standard Specifications for Highway Bridges, 1983, with 1984, and 1985 Interim Specifications.

DESIGN LOADING: Live load is AASHTO HS 20-44. Allowance for future wearing surface is 25 psf. All other loads are as prescribed in AASHTO.

UNIT STRESSES:
Concrete: $f'c = 3,500$ psi
Reinforcing Steel: $f_y = 60,000$ psi
Structural Steel: $f_y = 50,000$ psi M223, Gr 50
 $f_y = 36,000$ psi M183
Prestressing rods: $f_{pu} = 150,000$ psi

GENERAL NOTES (CONT'D)

REINFORCEMENT: Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60. The concrete cover over the reinforcement shall be 2" clear unless otherwise shown. Bars shown thus 8x7 #4 etc. indicate 8 lines of bars with 7 lengths per line. Reinforcement bars designated (B) shall be epoxy coated. All dimensions relating to reinforcing bars are to center of bars unless otherwise shown. Dimensions relating to bending of bars are out to out of the bar.

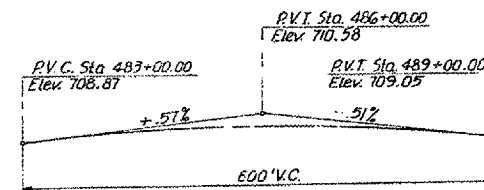
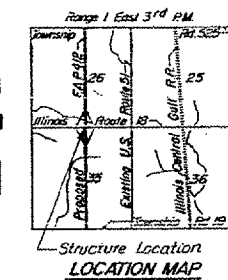
STRUCTURAL STEEL: Fasteners shall be high strength bolts having 7/8" diameter with 15/16" diameter open holes unless otherwise noted. All high strength bolted connections shall conform to the requirements of the latest issue of the Specifications for Structural Joints using ASTM A325 (M164) or A490 (M253) bolts for slip critical connections except tightening methods using either the load indicating washers or the calibrated wrench method are not allowed. Calculated weight of AASHTO M223, Grade 50 structural steel = 549,550 pounds. Calculated weight of AASHTO M183 structural steel = 78,170 pounds. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs and all splice plate material of the steel girders.

GENERAL NOTES

ABBREVIATIONS:
E.F. denotes each face
B.F. denotes back face
F.F. denotes front face
O.F. denotes outside face
I.F. denotes inside face
Bott. denotes bottom
Min. denotes minimum
Brg. denotes bearing
C. denotes center line
Clr. denotes clearance
P.J.F. denotes preformed joint filler

LEGEND

- ◄ indicates direction of traffic lane.
- ⊙ indicates boring location
- indicates guardrail
- E indicates expansion bearing
- ▨ indicates embankment placement after construction of Abutment Rear Wall
- ▩ indicates porous granular embankment to be placed after construction of the deck and superstructure



F.A.P. 412 PROFILE GRADE LINE

**PLATE GIRDER
ERECTION SEQUENCE**

- 1 Erect the girders in 3 segments supported by the permanent bearings and temporary supports
- 2 Erect the girder splices.
- 3 Install tie-down devices.
- 4 Remove temporary supports
- 5 Pour concrete deck in sequence as shown on Dwg. No. I.7.

Notes: For section U-U see Dwg. No. I.2
Temporary supports shall be incidental to structural steel.

PLAN

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

James J. Rayburn
Professional Engineer



James J. Rayburn
Professional Engineer

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY
BRIDGE LOCATION 2
S.N. 050-0215**

SCALE: VERT.
HORIZ.
DATE: 04/18/05

DRAWN BY: RW
CHECKED BY: