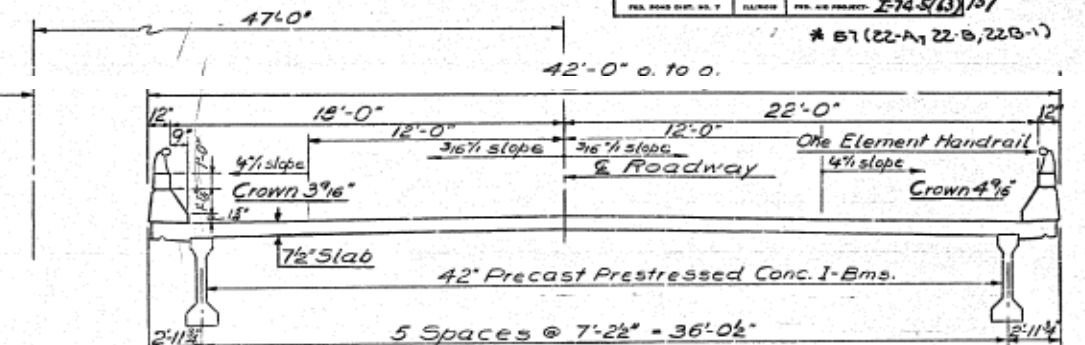
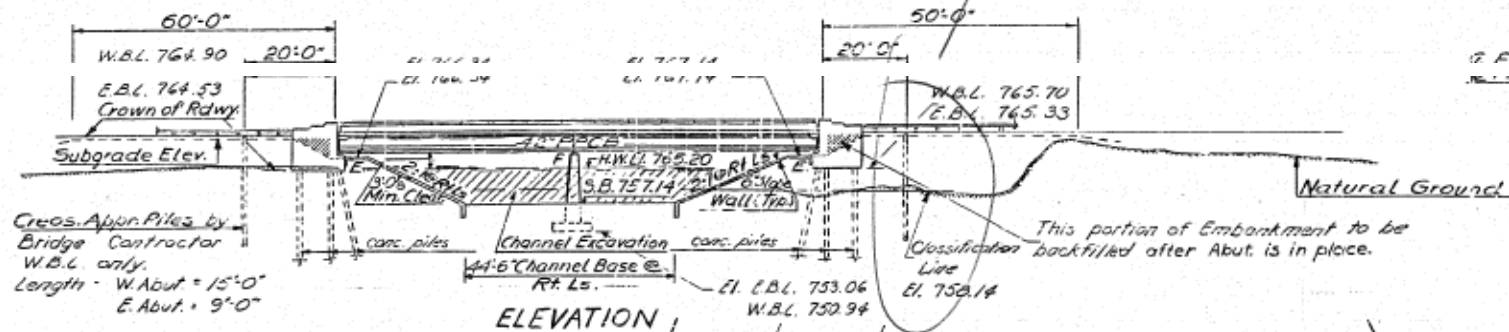


B.M. #12-Nail in top of corner fence post 425' high 20' West of Blacktop Road, 250' N. of F.A.I.-74 @ Sta. 1108+30. Elev. 782.96

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

| SECTION | QUANTITY | TOTAL QUANTITY | SHEET NO. | SHEETS |
|-----------|----------|----------------|-----------|--------|
| 174 | Mclean | 190 | 75 | 15 |
| F.A.I. 74 | | E-74-5(63)137 | | |



CROSS SECTION

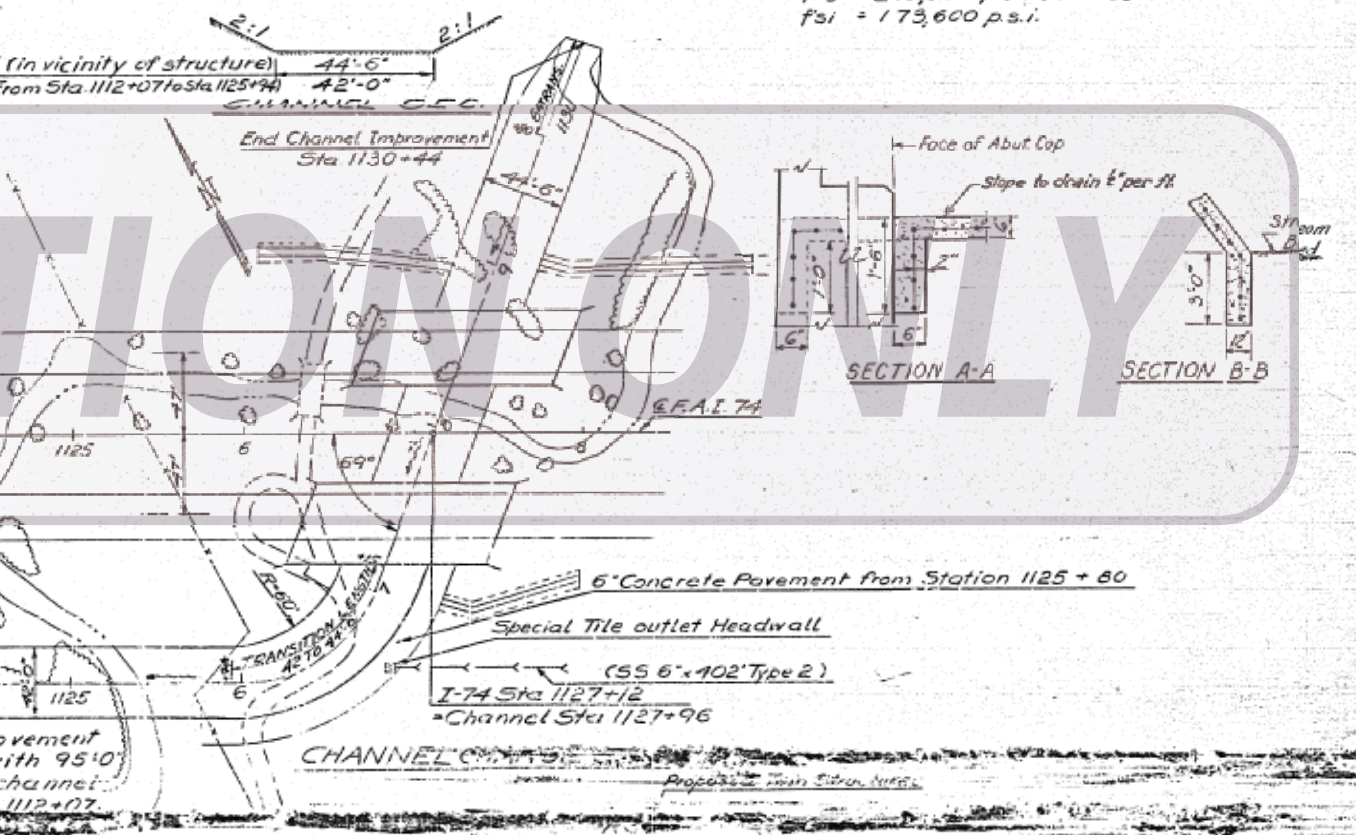
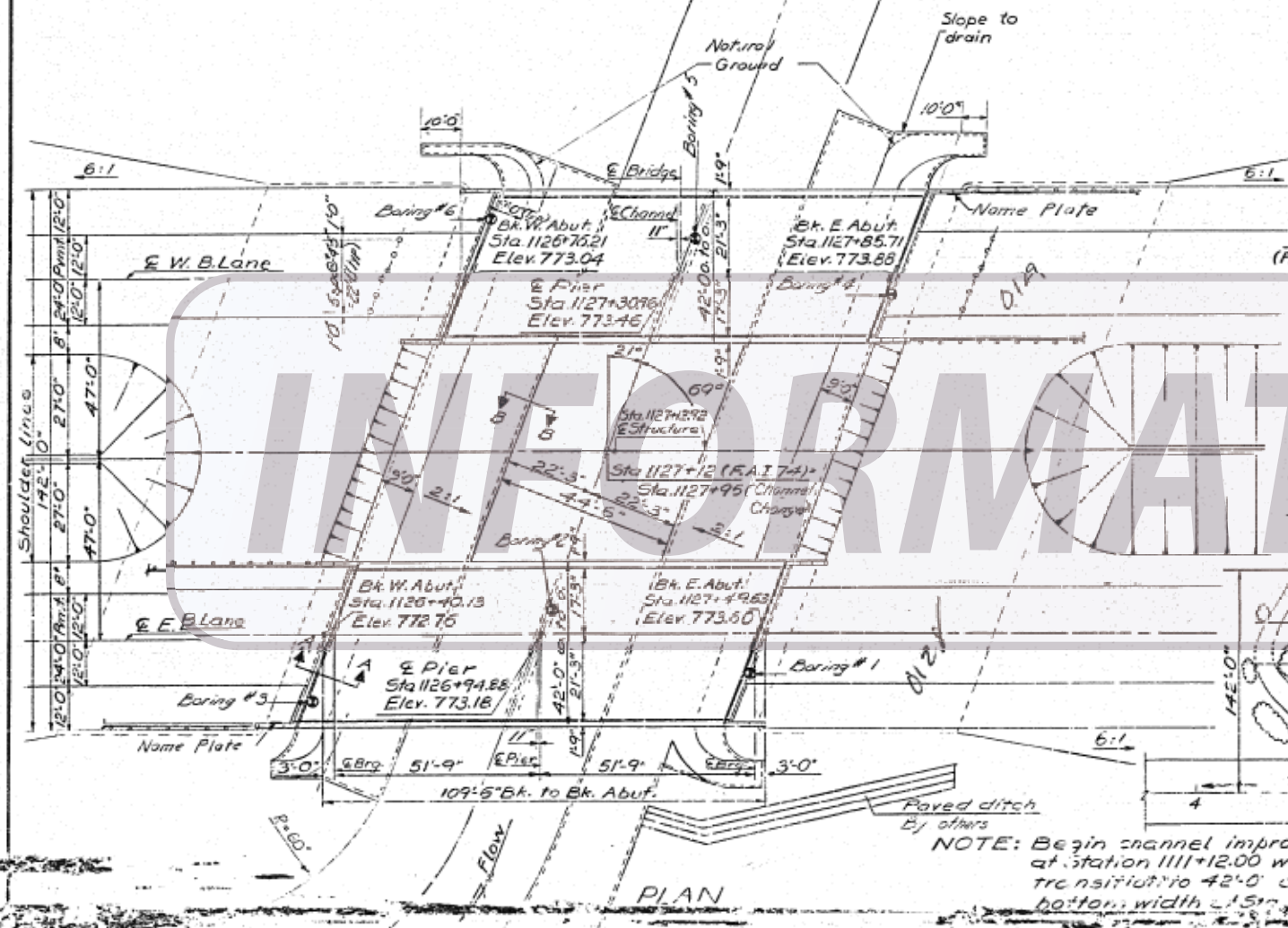
(East bound lane shown, west bound lane opposite hand.)

STRESSES PRECAST PRESTRESSED UNITS

$f'_c = 5000 \text{ psi}$
 $f'_{ci} = 4000 \text{ psi}$
 $f_s = 240,000 \text{ psi (cables } 7/16\text{'')}$
 $f_{si} = 173,600 \text{ psi}$

PROFILE CHANNEL CHANGE

(in vicinity of structure) 44'-6"
 (From Sta. 1112+07 to Sta. 1125+94) 42'-0"



NOTE: Begin channel improvement at station 1111+12.00 with 95'0" transition to 42'0" channel bottom width at Sta. 1112+07.

WATERWAY INFORMATION

Drainage Area: 5,780 Acres
 Character: Level, rolling, cultivated
 Required Opening: (50% area free) 464 Sq. Ft.
 Present Opening: None
 Proposed Opening: 464 Sq. Ft.

Ordinary Water Elev. 757.3
 Low Water Elev. 757.3
 High Water Elev. 765.20

DESIGN STRESSES

$f'_c = 4100 \text{ psi Super. \& Sub.}$
 $V_c = 75 \text{ psi Ftgs.}$
 $f_s = 20,000 \text{ psi Reinf.}$
 $f_{si} = 20,000 \text{ psi Struct.}$
 $n = 10$
 Δ Deflection = $\frac{L}{1000}$

Loading: HS 20-44 & AM. LOCATION SKETCH



GENERAL PLAN & ELEVATION
 PROJECT: I-74-5(63)137
 F.A.I. RT. 74 over Little Kickapoo Creek
 F.A.I. RT. 74 - SEC. 57-22B-1
 McLEAN COUNTY
 STA. 1127+12.92 (F.A.I.)

| | |
|----------|-----------------|
| DESIGNED | Jim King |
| CHECKED | James M. Bunker |
| DRAWN | D. Dertinger |
| CHECKED | RB |

| | |
|----------|----------------|
| EXAMINED | 10/6 |
| PASSED | M.C. Bannerman |
| APPROVED | [Signature] |

PROPOSED
F.A.I. PROFILE

10-25-1967, J.M.P. Curb in Cross section changed.