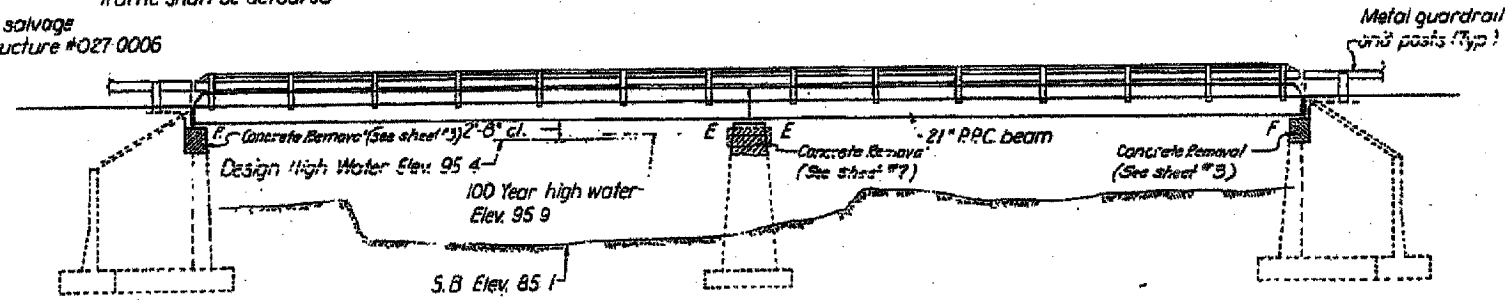


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

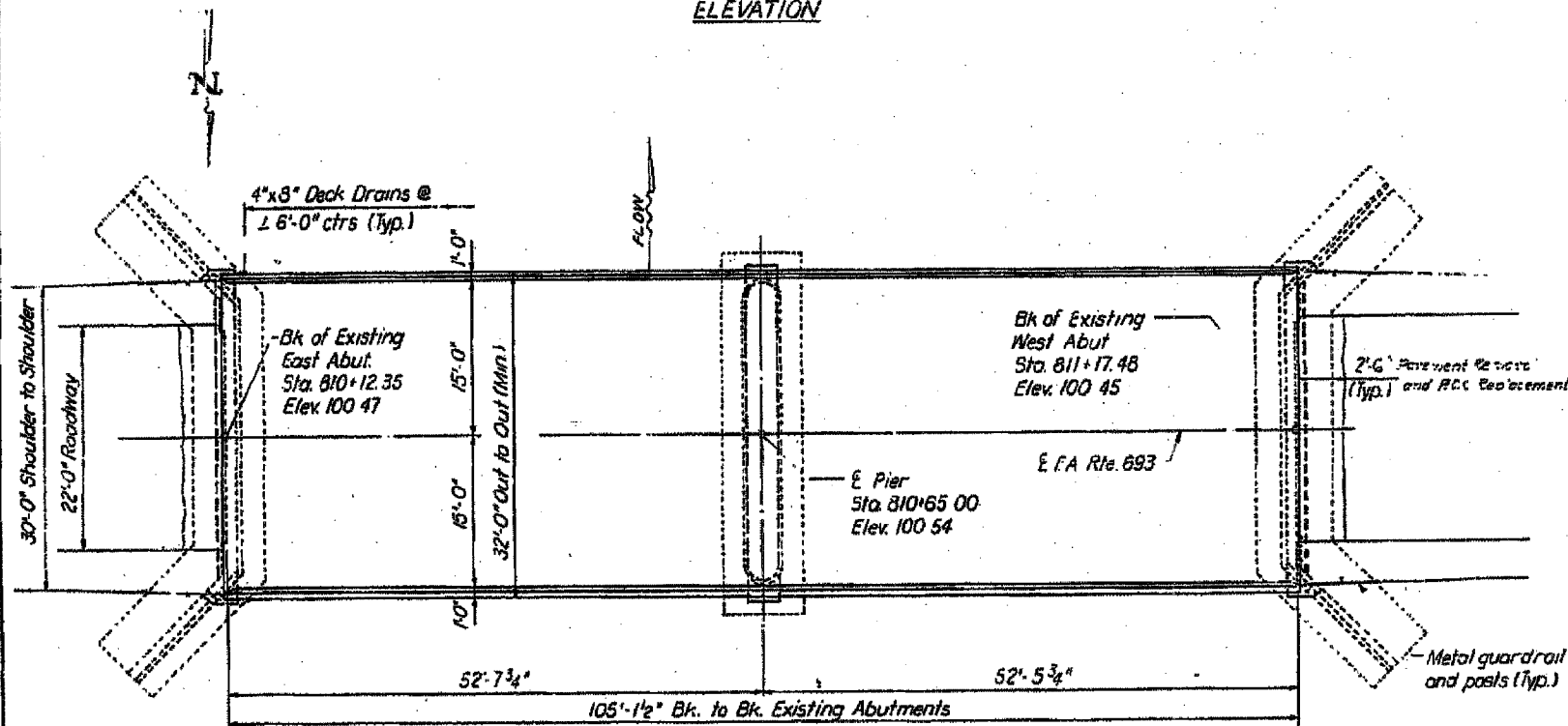
|             |        |         |         |    |           |   |              |   |
|-------------|--------|---------|---------|----|-----------|---|--------------|---|
| PROJECT NO. | 19-015 | SECTION | FORD 42 | 20 | SHEET NO. | 7 | TOTAL SHEETS | 7 |
|-------------|--------|---------|---------|----|-----------|---|--------------|---|

Benchmark: B.M. #1"x" chisel on N.E. wingwall, 16.5 Ft. Rt. Sta. 810+10, Elev. 100.00. Existing structure built as S.B. Route 9, Section 19B in 1925. R.C. thru-griders on R.C. closed abutments and pier. Out to Out 26'-5" and Bk to Bk 106'-3". The Contractor shall remove the existing superstructure, widen the substructure and provide a new superstructure. Traffic shall be detoured.

No salvage  
Structure #027-0006



ELEVATION



PLAN

**GENERAL NOTES**

All structural steel shall be shop primed with two coats of zinc rich epoxy chromate primer.

Expansion joints which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications and are included in quantity of structural steel.

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

The top surface of the beams shall be finished in accordance with Article 902.05 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

Expansion bolts shall consist of self-drilling expansion anchors and 3/4" x 1" bolts.

Reinforcement bars shall conform to the requirements of Article 503.05 of the Standard Specifications.

Column White Concrete shall be covered by the same type of formwork that shall be used for precast prestressed concrete deck beams and cast-in-place concrete for curbs.

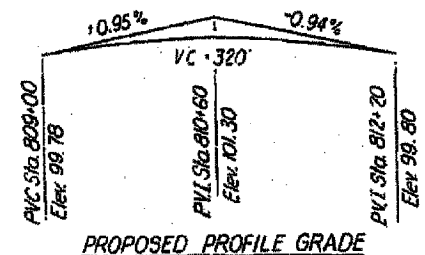
TOTAL BILL OF MATERIAL

| Item  | Unit    | Quantity | Sub  | Total |
|---|---------|----------|------|-------|
| Remove of Existing Superstructure               | Each    | 1        |      | 1     |
| 2" Concrete Surface Cse, Class I                | Sq. Yd. | 42       |      | 42    |
| Concrete Removal                                | Cu. Yd. | 18       |      | 18    |
| Reinforcement Bars                              | Pounds  | 490      | 3370 | 3360  |
| Expansion Bolts 3/4" dia.                       | Each    | 153      |      | 153   |
| Protective Coat                                 | Sq. Ft. | 35       |      | 35    |
| Class X Concrete                                | Sq. Ft. | 35       | 25.6 | 42.2  |
| P.R.C. Deck Beams (21")                         | Sq. Ft. | 3368     |      | 3368  |
| P.C. Mortar Jointing Cse                        | Sq. Ft. | 737      |      | 737   |
| Prefabricated Jt. She' (1")                     | Sq. Ft. | 32       |      | 32    |
| Waterproofing Membrane System                   | Sq. Ft. | 355      |      | 355   |
| Name Plates                                     | Each    | 1        |      | 1     |
| Structural Steel                                | Pounds  | 2240     |      | 2240  |
| Steel Bolting Type I                            | Lbs.    | 211      |      | 211   |
| Reinforcement Bars 1/2" dia. Type 1, 10' length | Lbs.    | 12       |      | 12    |

STATION 810+65  
REBUILT BY  
STATE OF ILLINOIS  
F.A. RT. 693 SEC. 19 BR  
LOADING HS 20  
STR. NO.

NAME PLATE

See Sp. 213  
\*Structure Number to be approved by District



PROPOSED PROFILE GRADE

|          |                   |          |             |
|----------|-------------------|----------|-------------|
| DESIGNED | Patricia M. Petro | EXAMINED | [Signature] |
| CHECKED  | C. A. H.          | PASSED   | [Signature] |
| DRAWN    | SU                | APPROVED | [Signature] |
| CHECKED  | C. A. H.          |          |             |

PRECAST PRESTRESSED UNITS

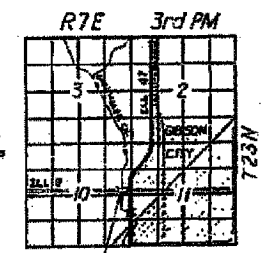
$f'_c = 5,000$  psi  
 $f'_t = 4,000$  psi  
 $f'_s = 270,000$  psi (1/2" Strands)  
 $f'_s = 189,000$  psi (1/4" Strands)

FIELD UNITS

$f'_c = 3,500$  psi  
 $f'_y = 60,000$  psi (Reinforcement)  
 $f'_s = 20,000$  psi (Structural)

WATERWAY INFORMATION

Drainage Area ..... 19.5 Sq. Miles  
Required Opening ..... 780 Sq. Ft.  
Design Discharge (100 Year) ..... 2000 cfs.  
Created Head for Design Flood ..... 0.0 Ft.  
100 Year Discharge ..... 2290 cfs.  
Created Head (100 Yr. Flood) ..... 0.02 Ft.  
LOADING HS 20-44 (NEW CONSTRUCTION)  
Design Specifications: 1977 AASHTO  
Allow 25#1 sq. ft. for future wearing surface.  
\* 1978 and 1979 Interim Specifications as applicable.



Proposed Reconstruction LOCATION SKETCH

GENERAL PLAN AND ELEVATION  
F.A. ROUTE 693 OVER DRUMMER CREEK  
F.A. ROUTE 693 SECTION 19 BR  
FORD COUNTY  
STATION 810+65