BENCHMARK: Sawed Square on top of Northeast Wingwall, SN 083-0037, Station 1541+78.70, 18.5' left, Elevation 366.17

EXISTING STRUCTURE: SN 083-0037 was originally built in 1932 as S.B.I. Route 143, Section 105B, Sta. 1542+00. The superstructure was replaced in 1972, and precast concrete bridge slabs were utilized to widen the approaches. The superstructure consists of one span, 21" PPC deck beams. The substructure consists of two reinforced concrete closed abutments on timber piles. The back-to-back abutments length is 53'-5'4", the out-to-out width is 33'-0". The existing superstructure and the existing bridge approach shoulders shall be removed and replaced utilizing stage construction.

No salvage.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET NO. / THIA FAP 869 105BR SALINE 118 23

-Traffic Barrier Terminal,

78031

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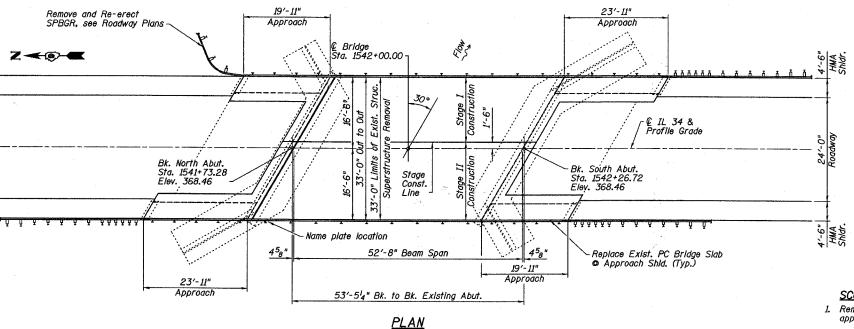
18 SHEETS

Type 6A Std. 631032 (Typical except at NE corner) - 21"x36" Deck Beams 18"x45" PC 21"x45" PC Bridge Slab Bridge Slab Streambea Elev. 352.9

ELEVATION

STATION 1542+00.00 REBUILT 20___ BY STATE OF ILLINOIS F.A.P. RT. 869 SEC. 105BR-1 LOADING HS20 STR. NO. 083-0037

> NAME PLATE See Std. 515001



APPROVED FOR STRUCTURAL ADEQUACY ONLY

Raph E andress

SCOPE OF WORK

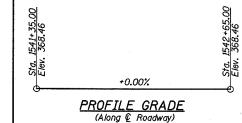
Range 6E 3rd P.M.

-STRUCTURE LOCATION

- Remove existing surfacing, steel railing, deck beams, and approach shoulder bridge slabs.
- 2. Repair beam bearing seats and perform other repairs at abutments as required.
- 3. Reconstruct a one-span PPCD beam superstructure with Concrete

Wearing Surface and Steel Railing, Type SM. Reconstruct existing approach shoulders with Precast Concrete Bridge Slabs with Concrete Wearing Surface and Steel Railing, Type SM.

GENERAL PLAN IL 34 OVER MIDDLE FORK SALINE RIVER OVERFLOW FAP ROUTE 869 - SECTION 105BR-1 SALINE COUNTY STATION 1542+00.00 ---STRUCTURE NO. 083-0037



CONSULTANTS, INC.



DESIGN SPECIFICATION 2002 AASHTO LOADING HS20-44 No allowance for future wearing surface DESIGN STRESSES FIELD UNITS

f'c = 5,000 psi (Concrete Wearing Surface) f'c = 3,500 psi (All concrete except CWS) fy = 60,000 psi (reinf.) PRECAST PRESTRESSED UNITS

f'c = 6,000 psi f'ci = 5,000 psi f's = 270,000 psi (½"\$ low lax strands) fsi = 201,960 psi (½"\$ low lax strands)

PRECAST UNITS f'c = 4,500 psify = 60,000 psi (reinf.)

LOCATION SKETCH