Renchmark:

Existing benchmark could not be found on N.E. wingwall. Top of N.E. wingwall was assumed at El. 661.84 (original benchmark elevation). Elevation was transferred to temporary benchmark which is railroad spike in west side of power pole, El. 662.23.

Existing Structure:

Original Bridge S.N. 045-0020 was built as R.C. Deck Girder with Closed Abutments next to thru steel girder Railroad Bridge in early 1900's. Railroad Bridge was removed and Highway Bridge was widened in kind, abutments modified, in 1935. This structure was rebuilt in 1978. Superstructure was removed and replaced with PPC Deck Beams. Abutments were modified for deck beams and repaired as required. The existing PPC Deck Beams, Sidewalk, and Parapets shall be removed and replaced utilizing stage construction. Existing brass name plate has SN 025-0020 imprinted rather than SN 045-0020.

Salvage:

20

Remove and re-erect existing aluminum railing. Relocate existing name plate.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





| BOUTE NO. | SECTION | COUNTY | | TOTAL SHEETS | SHEET NO. | SHEET NO. |
|-----------------------|---------|----------|-------------------|-----------------|-----------|------------------|
| 3887 | AR-B | KANE | | 43 | 17 | <i>16</i> SHEETS |
| FED. ROAD DIST. NO. / | | ILLINGIS | FED. A(D PROJECT- | | | |

INDEX OF SHEETS

- General Plan & Elevation
- General Notes and Total Bill of Material
- Stage I Construction
- Stage II Construction
- Stage 111 Construction Temporary Concrete Barrier
- Superstructure Details
- Sections and Bearing Details
- 9. Strip Seal Joint Details
- 10. Concrete Wearing Surface
- 11. Sidewalk & Parapet Details
- 12. Parapet Details
- 13. Bar Splicer Assembly Details
- 14. Re-erected Aluminum Railing
- 15. North Abutment Details
- 16. Substructure Repairs

APPROVED FOR STRUCTURAL ADEQUACY ONLY

Ralph E anderson ENGINEER OF BRIDGES AND STRUCTURES LOADING HS20-44

No Allowance for future wearing surface

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specific

DESIGN STRESSES

FIELD UNITS f'_ = 3,500 psi $f_y = 60,000 \text{ psi} (reinforcement)$

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi f'c = 4,000 psi

f's = 270,000 psi (1/2" ¢ low lax strands) f'si = 201,960 psi (1/2" ¢ low lax strands)



GENERAL PLAN & ELEVATION F.A.U. 3887 (IL 31) OVER MILL CREEK SECTION AR-B KANE COUNTY STA. 187+31.80 STRUCTURE NO. 045-0020



STS 516 111 NE Jefferson Ave. Peoria, Illinois 61602 Ph(309)676-5445 STS CONSULTANTS FAX(309)676-5445 IL Design Firm Reg. No. 184-001518