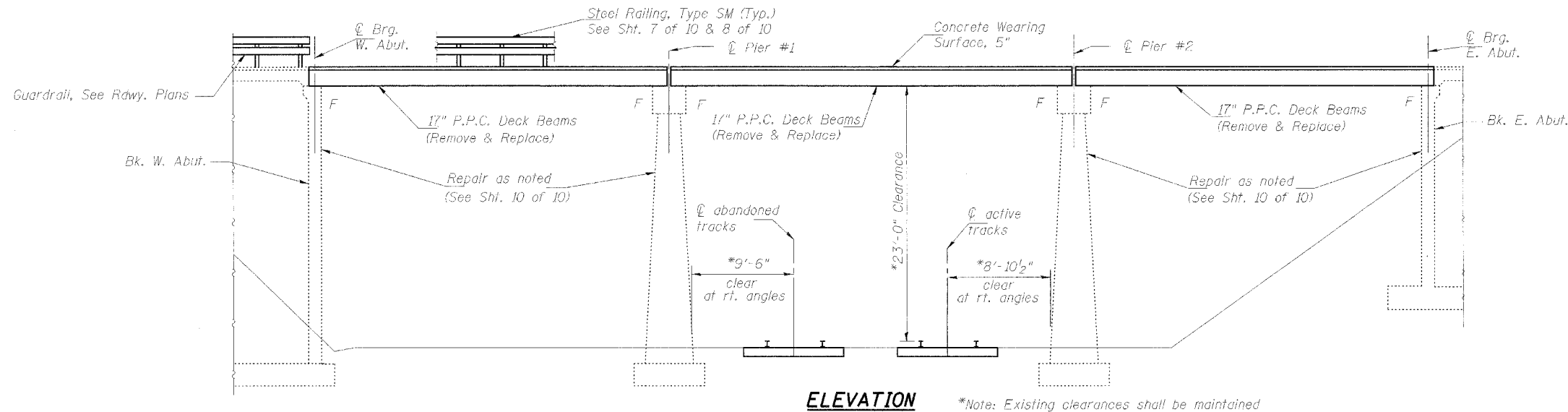


Benchmark: Brass Disc at S.W. Corner of Existing Bridge, El. 812.05 (current USGS elev. is different from elev. listed on 1986 plans)
 Existing Structure: No. 016-0219 was built in 1929 with a R.C.D.G. superstructure on R.C. closed abutments and solid piers. The bridge was widened in kind in 1931.
 The superstructure was reconstructed with P.P.C. deck beams in 1969, with length of 102'-7 1/2" back to back of abutments and total width of 52'-6" out to out of superstructure.
 Substructure was modified accordingly. Superstructure was resurfaced and railing replaced in 1986. Minor repairs were made to substructure.
 Salvage: None for removal components except existing name plates.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

| | | | | | |
|-----------------------|----------|------------------|-------|-----------|-------------|
| ROUTE NO. | SECTION | COUNTY | SCALE | SHEET NO. | SHEET NO. 1 |
| Rte 20 | | Cook | 22 | 8 | 10 SHEETS |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT | | | |

Contract # 62618



INDEX OF SHEETS

1. General Plan & Elevation
2. General Notes and Total Bill of Material
3. Stage Construction
4. Temporary Concrete Barrier for Stage Construction
5. Superstructure Details - 17" Deck Beams
6. Superstructure Details - Sections & Joint Details
7. Rail Post Spacing & Concrete Wearing Surface Plan
8. Steel Railing, Type SM With Concrete Wearing Surface and Curb
9. Bar Splicer Assembly Details
10. Substructure Repairs General Plan & Elevation

LOADING HS20-44

No Allowance for future wearing surface

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

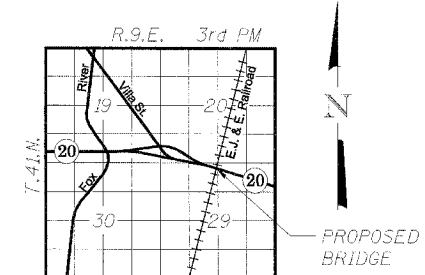
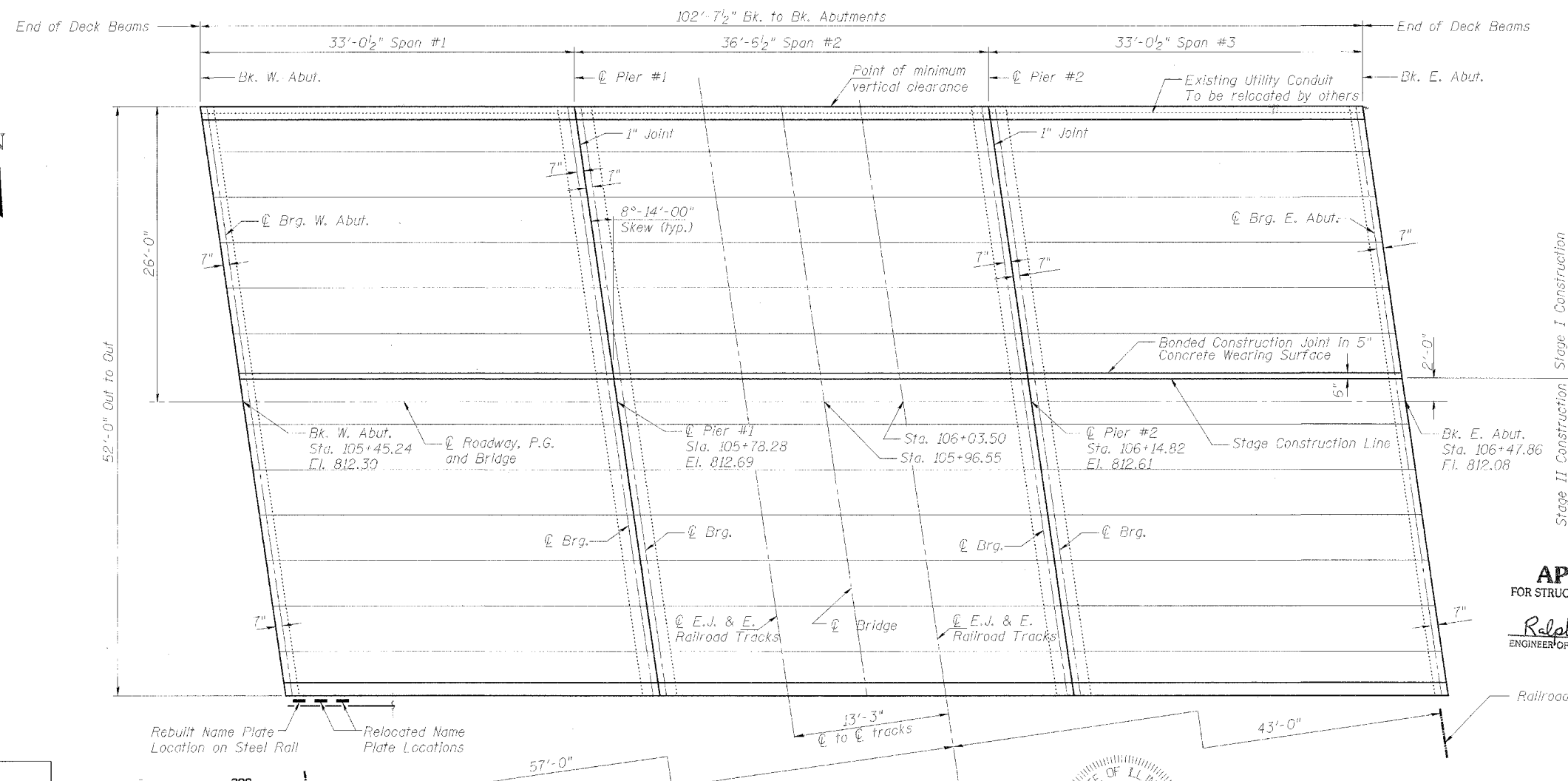
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 5,000$ psi
 $f'_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi (1/2" ϕ low lax strands)
 $f'_{si} = 201,960$ psi (1/2" ϕ low lax strands)



LOCATION SKETCH

RAILROAD DATA

Crossing: DOT/AAR No. 260 529L
 Mile Post: 38.57

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph C. Anderson (TSD)
 ENGINEER OF BRIDGES AND STRUCTURES

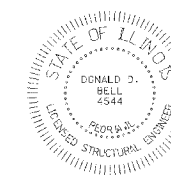
GENERAL PLAN & ELEVATION
 U.S. RTE. 20 (F.A.P. 426)
 OVER E.J. & E. RAILROAD
 COOK COUNTY, STA. 106+03.50
 STRUCTURE NO. 016-0219

| | |
|----------|-----|
| DESIGNED | DDB |
| CHECKED | LLV |
| DRAWN | MGM |
| CHECKED | LLV |

| | |
|----------|------------------------------------|
| EXAMINED | 200 |
| PASSED | ENGINEER OF BRIDGE DESIGN |
| | ENGINEER OF BRIDGES AND STRUCTURES |

Note:
 See Sht. 6 of 10 for Sections through Abutments and Piers. See Sht. 6 of 10 for Cross Section through Bridge Deck.

PLAN



Donald D. Bell
 Illinois Licensed Structural Engineer No. 4544
 Lic. Expires: 11/30/08

Date 8-12-07

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