

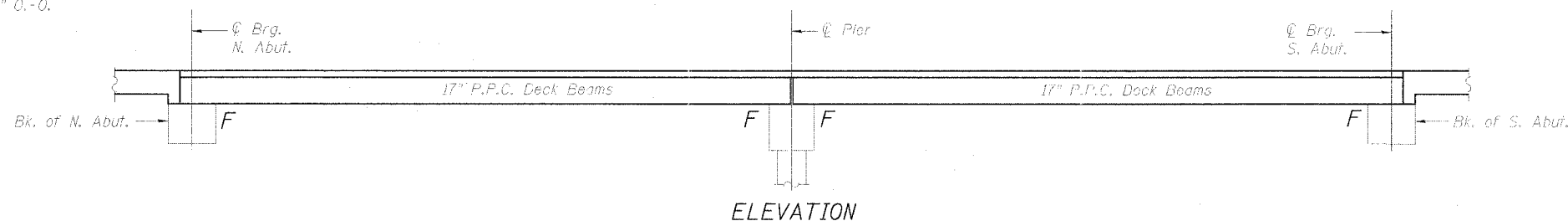
Benchmark: Chiselad box on top of parapet at S.E. corner of existing bridge. Elev. = 100.00

Existing Structure: No. 045-0045 built in 1967.
Two span, 65'-5" Bk-Bk Abuts. PPC Dk. Beams 46'-0" O.-O.
Concrete parapet with aluminum handrail on top.
4" CWS added in 1988.

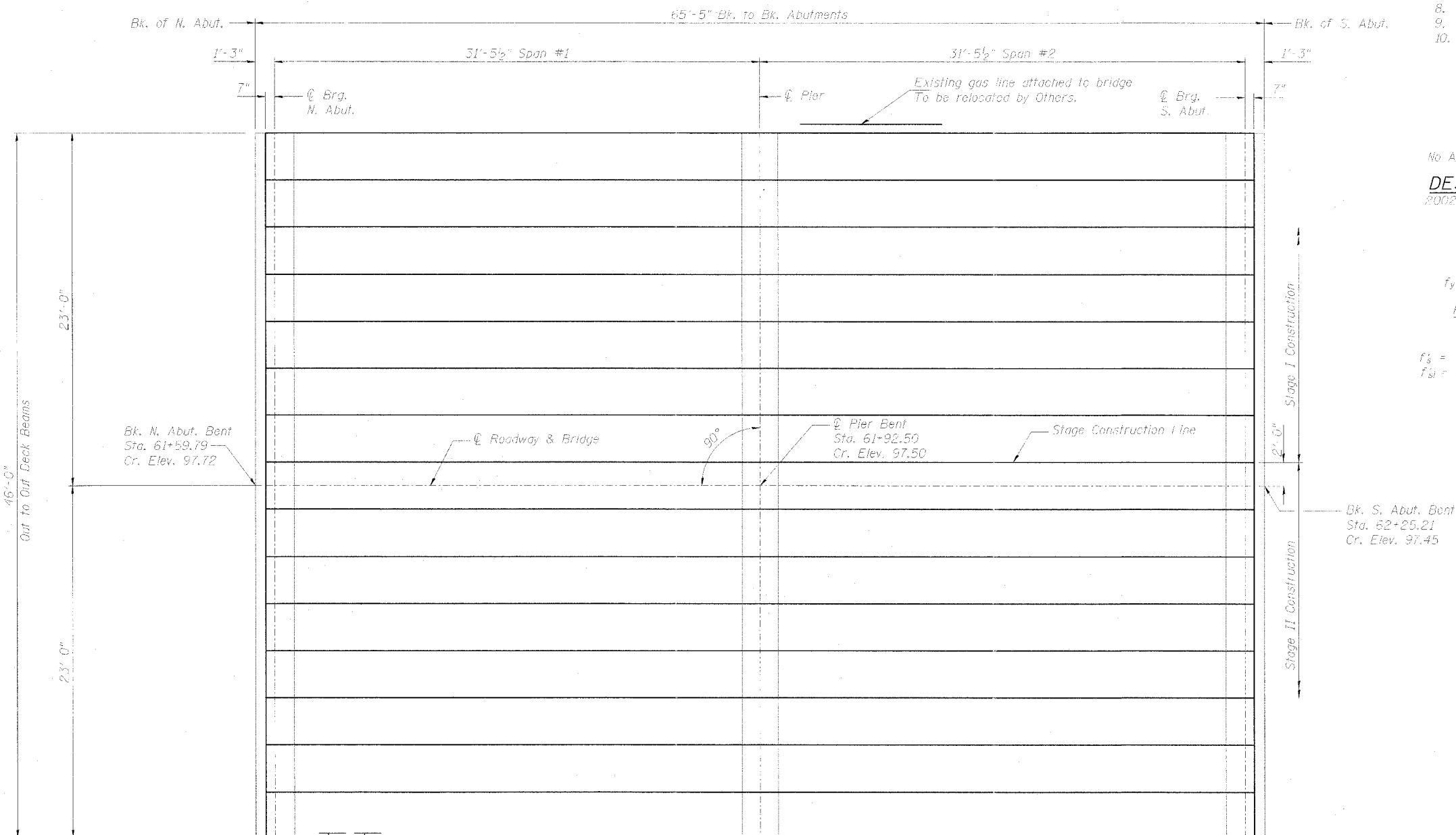
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	DATE	SHEET NO.
SA 13		Kane	27	7
SHEET NO. 7 OF 10 SHEETS				

Contract # 60581



ELEVATION



PLAN

INDEX OF SHEETS

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

LOADING HS20-44

No Allowance for future wearing surface

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

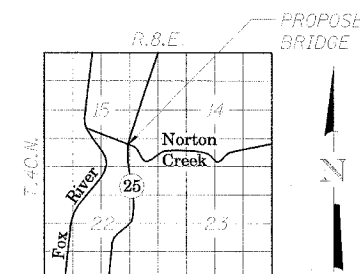
DESIGN STRESSES

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)



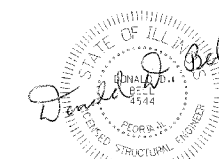
LOCATION SKETCH

GENERAL PLAN & ELEVATION
S.A. 13 (IL RTE. 25)
OVER NORTON CREEK
S.A. RTE. 13 (F.A.S. 106)
KANE COUNTY, STA. 61+92.50
STRUCTURE NO. 045-0045

DESIGNED	DDB
CHECKED	LLV
DRAWN	MGM
CHECKED	DDB

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

APPROVED
For Structural Adequacy Only
Ralph E. Anderson
Engineer of Bridges & Structures



License Expires: 11/30/08
Date Signed: 8-16-07

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