

B.M.:
Chiseled "□" in NW Wingwall of Str. No. 069-0005
at Station 15+34, 17.7' Rl.
NAVD 88 = 562.14 Ft.

EXISTING STRUCTURE:
SN 069-0005 Built in 1927 and reconstructed in 1978. A
four span 21" deep prestressed concrete deck beam superstructure,
202'-6" back to back abutments and 33'-0" O. to O. deck width
with steel rails and concrete curbs supported on pile bent piers and
abutments. The existing bridge superstructure shall be removed and
replaced. Traffic to be detoured.

No Salvage

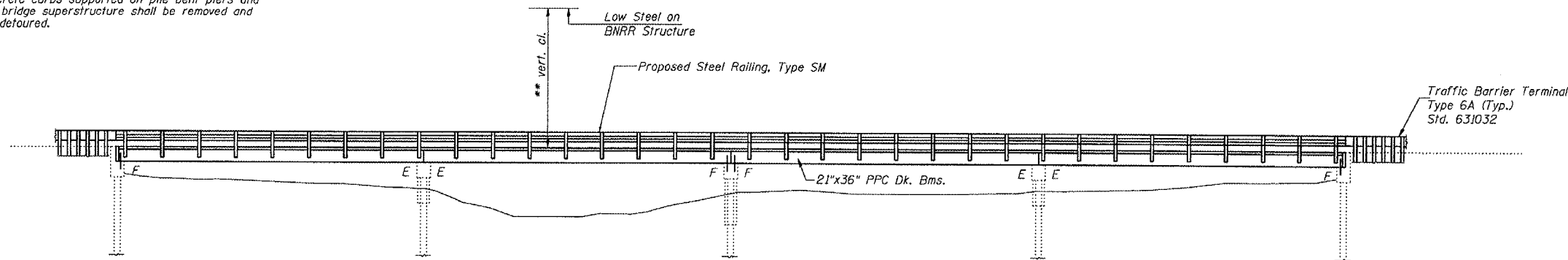
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P.	614	MORGAN	14	3

SHEET NO. 1
12 SHEETS

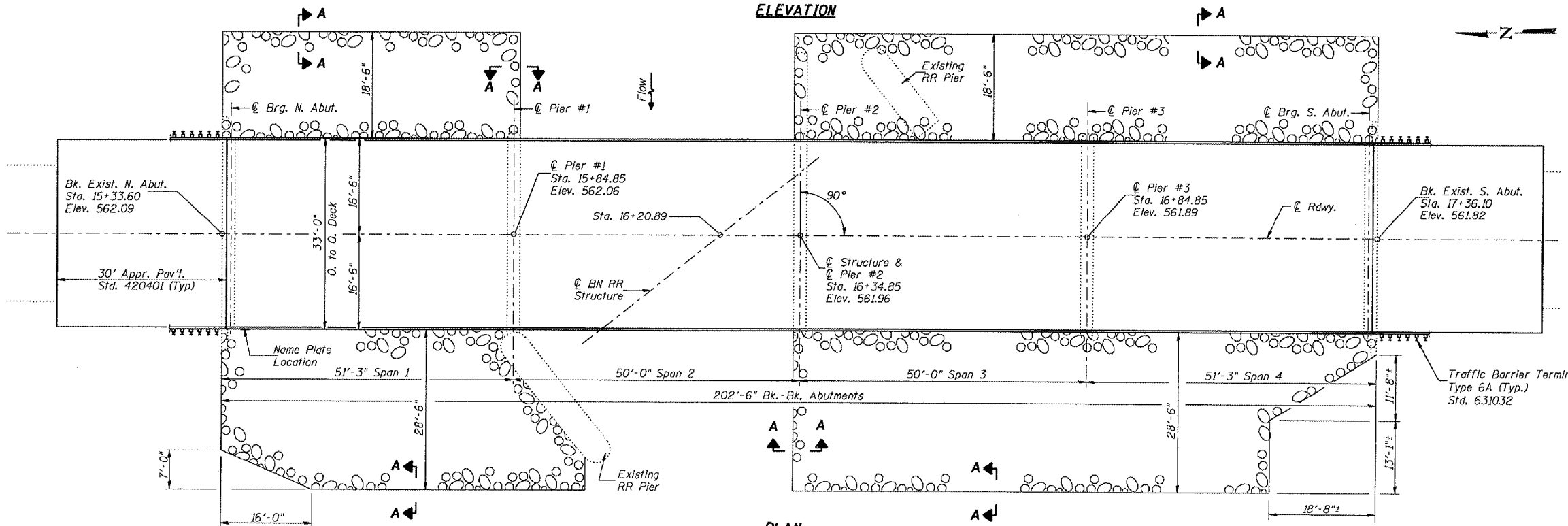
PROJECT NO. 148(BR-2)F

CONTRACT NO. 72349

** ±13'-8" clearance
to be checked in the
field by the Engineer.



ELEVATION



PLAN

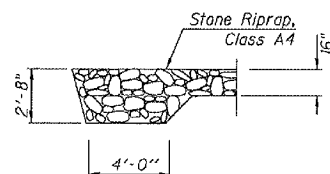
INDEX OF SHEETS

1. General Plan
2. General Notes & Bill of Material
3. Superstructure Details
4. Steel Railing, Type SM With HMA Wearing Surface
5. Rail Post Spacing, HMA WS Profile & Substructure Sections
6. Abutments
7. Pier 1 Repairs
8. Pier 2 Repairs
9. Pier 3 Repairs
10. Piers 1 & 3
11. Pier 2
12. Preformed Joint Detail

APPROVED
For Structural Adequacy Only

Ralph E. Anderson (TOD)
Engineer of Bridges & Structures

NOTE:
See Roadway plans for profile
grade information.



SECTION A-A

LOADING HS20-44
No Allowance for future wearing surface.

DESIGN SPECIFICATIONS
2002 AASHTO

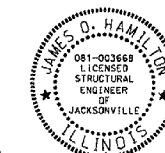
DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinforcement)

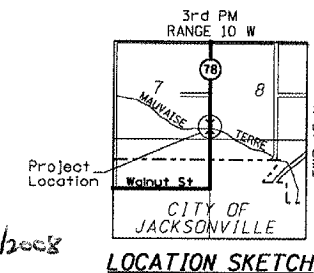
PRECAST PRESTRESSED UNITS

$f'_c = 5,000$ p.s.i.
 $f'_{ci} = 4,000$ p.s.i.
 $f'_s = 270,000$ p.s.i. ($\frac{1}{2}$ " ϕ low relaxation strands)
 $f'_{si} = 201,960$ p.s.i. ($\frac{1}{2}$ " ϕ low relaxation strands)

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN



James O. Hamilton
8/8/2007
License Expires 11/30/2008



LOCATION SKETCH

GENERAL PLAN
ILLINOIS ROUTE 78 OVER
MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148(BR-2)F
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
Rev: _____ Date: _____