

Bench Mark 3507528: Chiseled square in top of hub guard, northwest corner of SN 035-0005. Elevation 403.32

Existing Structure: The original two-span structure was built in 1924 with a reinforced concrete through girder on reinforced concrete closed abutments and pier with a length of 76'-0" back-to-back of abutments. The structure was widened in 1979. The superstructure was replaced with P.P.C. deck beams with a total width of 31'-0" out-to-out of superstructure and the substructure was modified accordingly.

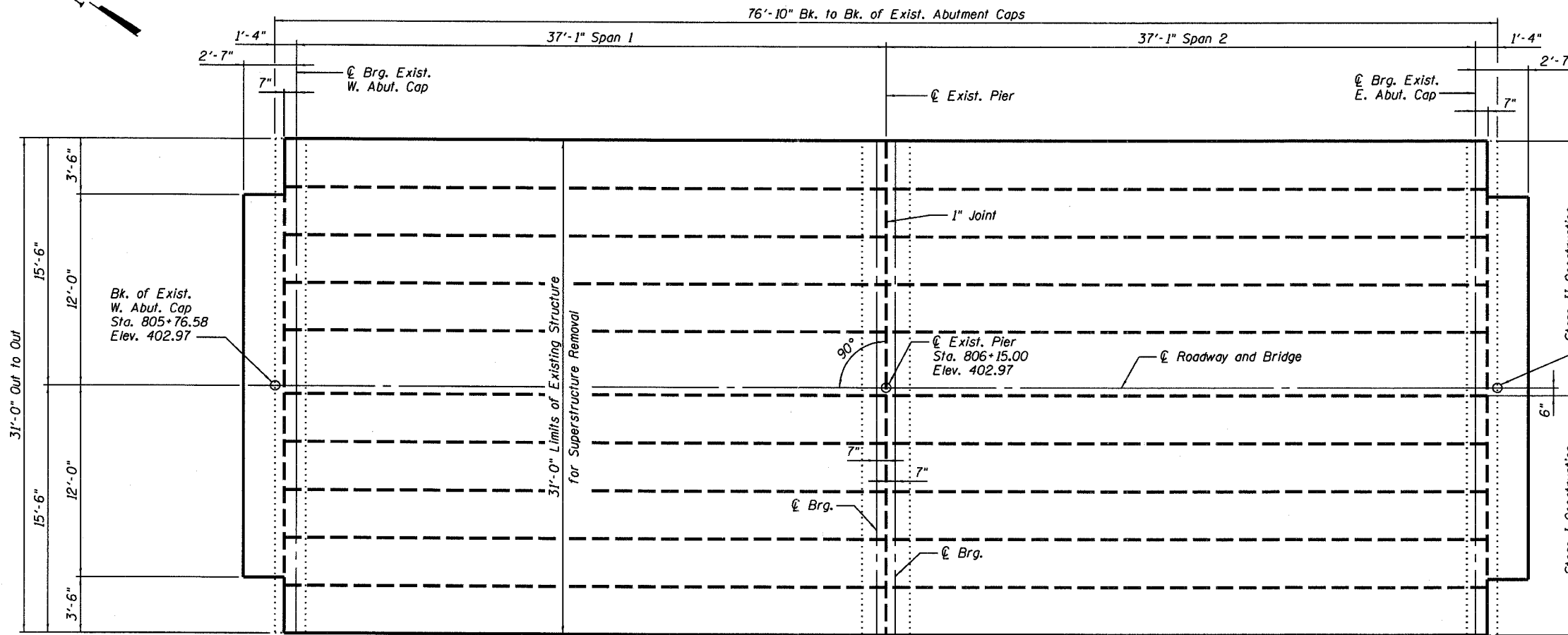
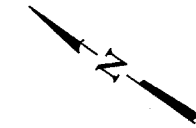
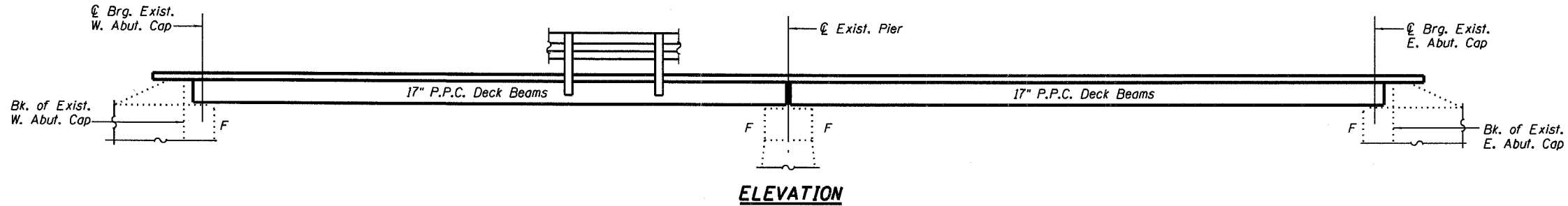
Proposed Improvements: The existing superstructure is to be replaced with P.P.C. deck beams and a 5" concrete overlay. Minor substructure repairs are required. Traffic to be maintained at all times utilizing stage construction.

Salvage: ~~Shoring material is to be stockpiled according to the Special Provisions after removal.~~
No Salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 778	SECTION 3BR-1	COUNTY HARDIN	STA. 69	SHEET 11	SHEET NO. 1 14 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #78023



DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges

LOADING HS20-44
No allowance for Future Wearing Surface.

DESIGN STRESSES

FIELD UNITS

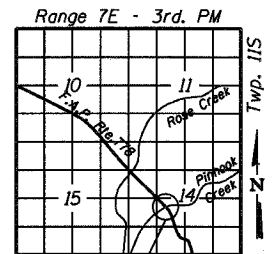
$f'_c = 5,000$ psi (Concrete Wearing Surface)
 $f'_c = 3,500$ psi (All concrete except CWS)
 $f_y = 60,000$ psi (reinforcement)

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)

Bk. of Exist.
E. Abut. Cap
Sta. 806+53.42
Elev. 402.97

Stage
Construction
Line



BRIDGE
REHABILITATION

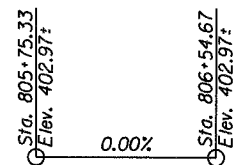
LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILL. ROUTE 34 OVER PINHOOK CREEK
F.A.P. ROUTE 778 SECTION 3BR-1
HARDIN COUNTY
STATION 806+15.00
STRUCTURE NO. 035-0005



DESIGNED	RLM
CHECKED	MEL
DRAWN	AEC
CHECKED	RLM

10/04/07



PROFILE GRADE
(Along ϕ Roadway)

PLAN

STATION 806+15
REBUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RT. 778 SEC. 3BR-1
LOADING HS20
STR. NO. 035-0005

NAME PLATE
See Std. 515001

Notes: Existing name plate shall be cleaned and relocated adjacent to the new name plate. Cost included with Name Plates.
Locate name plates at outside face of top steel railing tube at southwest corner of bridge.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



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ENGINEER NO. 081-005642
EXPIRES NOV. 30, 2008