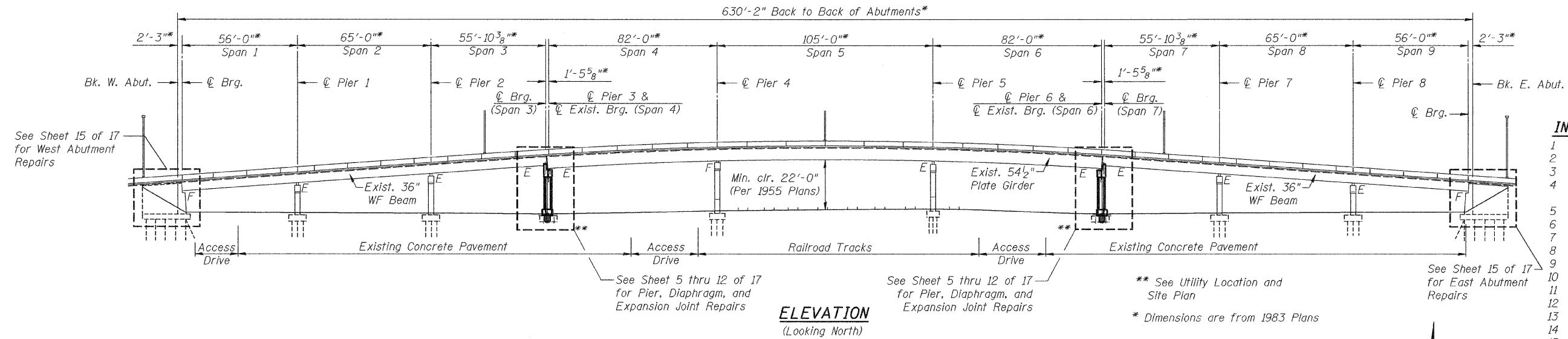


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7369	08-00503-00-BR	MACON	24	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Bench Mark: "M" in Mueller on Fire Hydrant 58.25' Right of ϕ Roadway at Sta. 8+27.50 Elev. 682.69

Existing Structure: Built in 1955 as Reinforced Concrete Deck on Steel Stringers with Column Bent Concrete Piers and Closed Abutments. Deck replaced in 1983 with Composite Reinforced Concrete Deck.

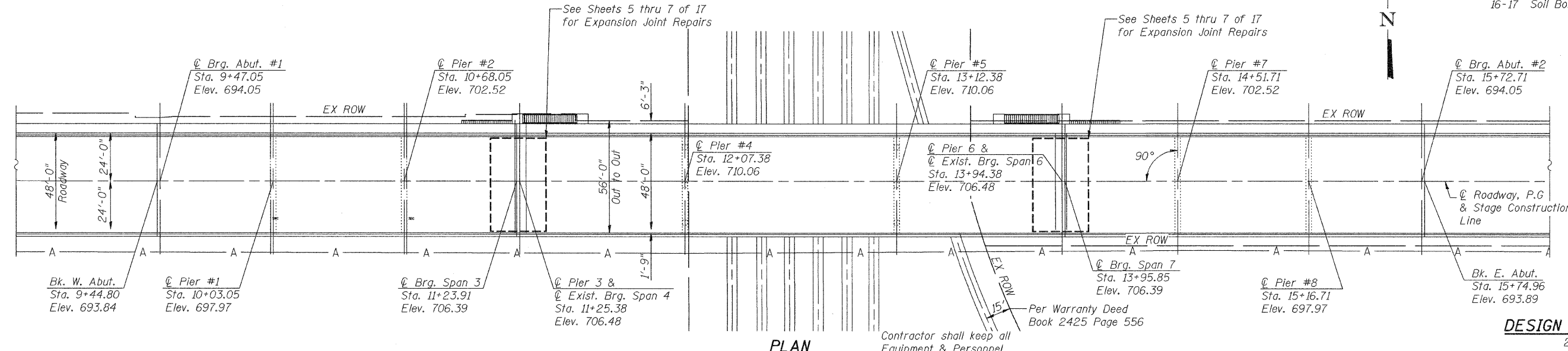
Scope: The existing expansion joints are to be replaced. Two piers are to be rebuilt and abutments are to be repaired. No Salvage Items.



ELEVATION
(Looking North)

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Notes and Bill of Material
- 3 Deck Staging Sections
- 4 Temporary Concrete Barrier For Stage Construction
- 5 Deck Joint Repair Plan
- 6 Deck Joint Repair Details
- 7 Parapet Joint Plating & Expansion Joint Bar Splicer Assembly Details
- 8 Corbel Removal & Diaphragm Details
- 9 Temporary Support & Diaphragm Details
- 10 Type II Bearing Details
- 11 Piers 3 and 6
- 13 Drainage Scupper, DS-11
- 14 Top of Deck Repairs
- 15 Abutment and Diaphragm Repairs & Pier Removal
- 16-17 Soil Borings



PLAN

DESIGN STRESSES

New Construction
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Structural Steel)
 (unless noted otherwise)

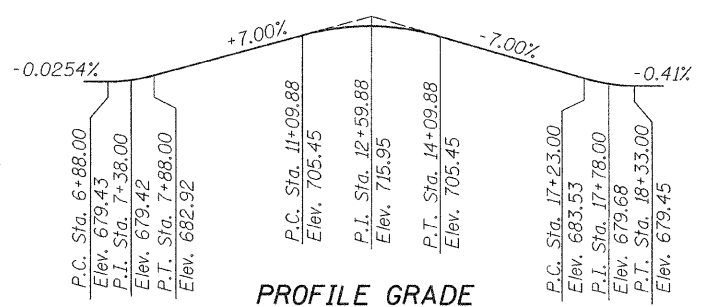
Rehabilitated Deck Construction
 Concrete (Load Factor)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 33,000$ psi (Structural Steel)

Original Girder Beams and Substructure
 $f'_c = 1,400$ psi
 $f_s = 20,000$ psi (Reinforcement)
 $f_s = 18,000$ psi (Structural Steel)



Peter B. Bayles
 Peter B. Bayles, P.E. S.E. Date: _____
 Structural Engineer License No. 081-006042
 Expiration Date: 11/30/2010

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".



PROFILE GRADE

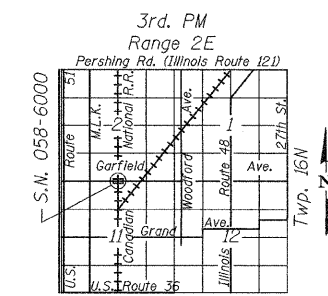
*Profile Grade is from 1983 Plans

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface. (Per 1983 Plans)



LOCATION SKETCH
(Decatur, IL)

GENERAL PLAN AND ELEVATION
 FAU 7369
 SEC. 08-00503-00-BR
 GARFIELD AVENUE OVER
 CANADIAN NATIONAL RAILROAD
 CITY OF DECATUR
 MACON COUNTY
 STA. 12+59.88
 STRUCTURE NUMBER 058-6000

DATE: FEB. 2009

DRAWN BY: MLO
CHECKED BY: PBB