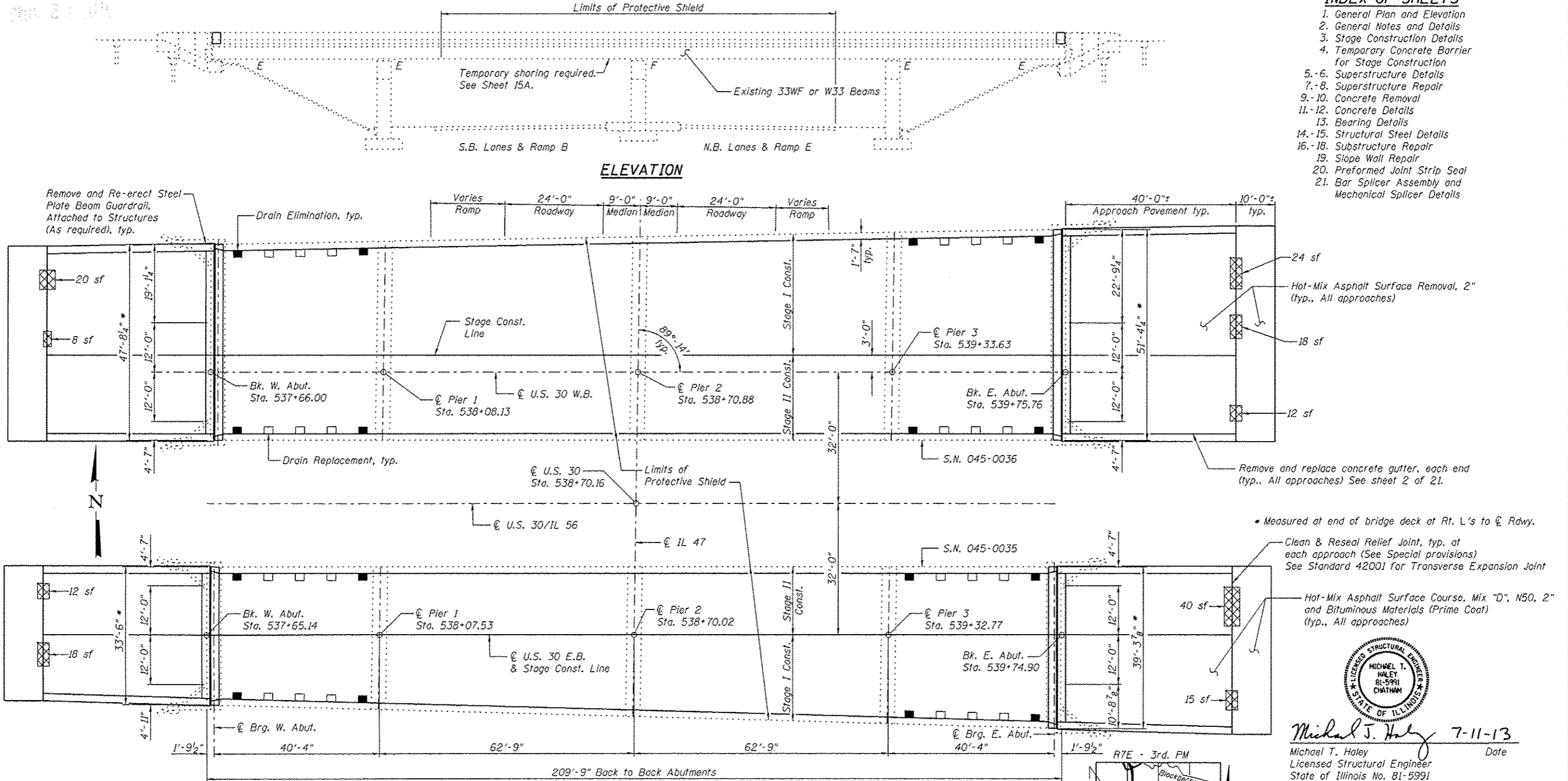


Existing Structure: S.N. 045-0035 and 045-0036 built in 1961 as F.A. Route 141, Section 61 HB at Station 103+99.59. In 1985, curb and bridge rails were removed and new parapets were installed, expansion joints reconstructed, and overlay was placed on deck. In 2002, collision damage on beam no. 15 on S.N. 045-0035 was repaired. Structures consist of 4-span continuous WF Beam bridge with 5 1/4" concrete slab and 3 3/4" overlay of variable width, and 209'-9" bk. to bk. abutments on pile supported stub abutments and multi-column piers. Stage construction shall be utilized to maintain one lane of traffic in each direction.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes and Details
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
- 5.-6. Superstructure Details
- 7.-8. Superstructure Repair
- 9.-10. Concrete Removal
- 11.-12. Concrete Details
13. Bearing Details
- 14.-15. Structural Steel Details
- 16.-18. Substructure Repair
19. Slope Wall Repair
20. Preformed Joint Strip Seal
21. Bar Splicer Assembly and Mechanical Splicer Details



ELEVATION

PLAN

DESIGN STRESSES
FIELD UNITS

NEW CONSTRUCTION
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Gr. 36, Structural Steel)

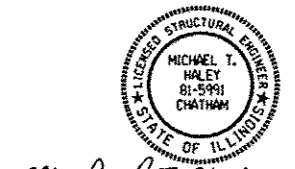
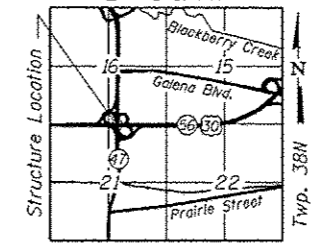
ORIGINAL CONSTRUCTION
 $f_s = 20,000$ psi (Reinf.)
 $f_s = 18,000$ psi (Structural Steel)
 $f_c = 1,400$ psi (Superstructure & Piers)
 $f_c = 1,000$ psi (Abutts.)

LOADING HS-20 & ALT.
(Original Construction)

DESIGN SPECIFICATIONS
(New Construction)
 2002 AASHTO "Standard Specifications for Highway Bridges"

LEGEND

- Approach slab repair (Partial)
- sf Square Feet



Michael J. Haley 7-11-13
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2012

GENERAL PLAN AND ELEVATION
U.S. 30/IL 56 OVER IL 47
F.A.P. RTE 573 - SECTION 61 HB-1-7
KANE COUNTY
STATION 538+70.16
STRUCTURE NOS. 045-0035 & 045-0036

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME *	DESIGNED - TBP	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NOS. 045-0035 (EB) & 045-0036 (WB)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME *	CHECKED - ADB	REVISOR -			573	61 HB-1-7	KANE	48	19
PLOT SCALE *	DRAWN - AJF	REVISOR -		SHEET NO. 1 OF 21 SHEETS						
PLOT DATE *	CHECKED - MTH	REVISOR -		ILLINOIS FED. AID PROJECT						