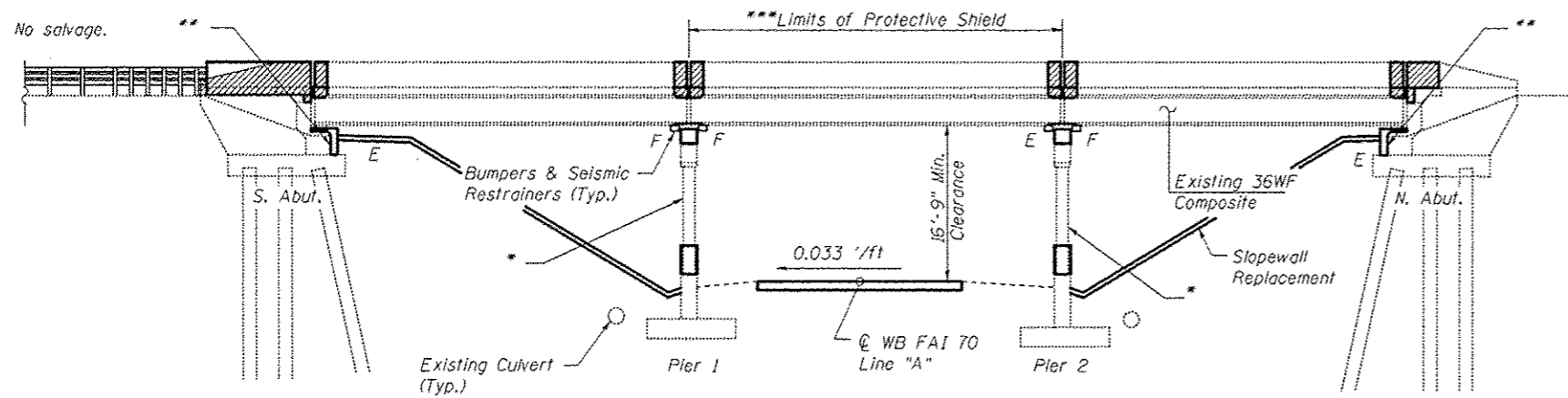


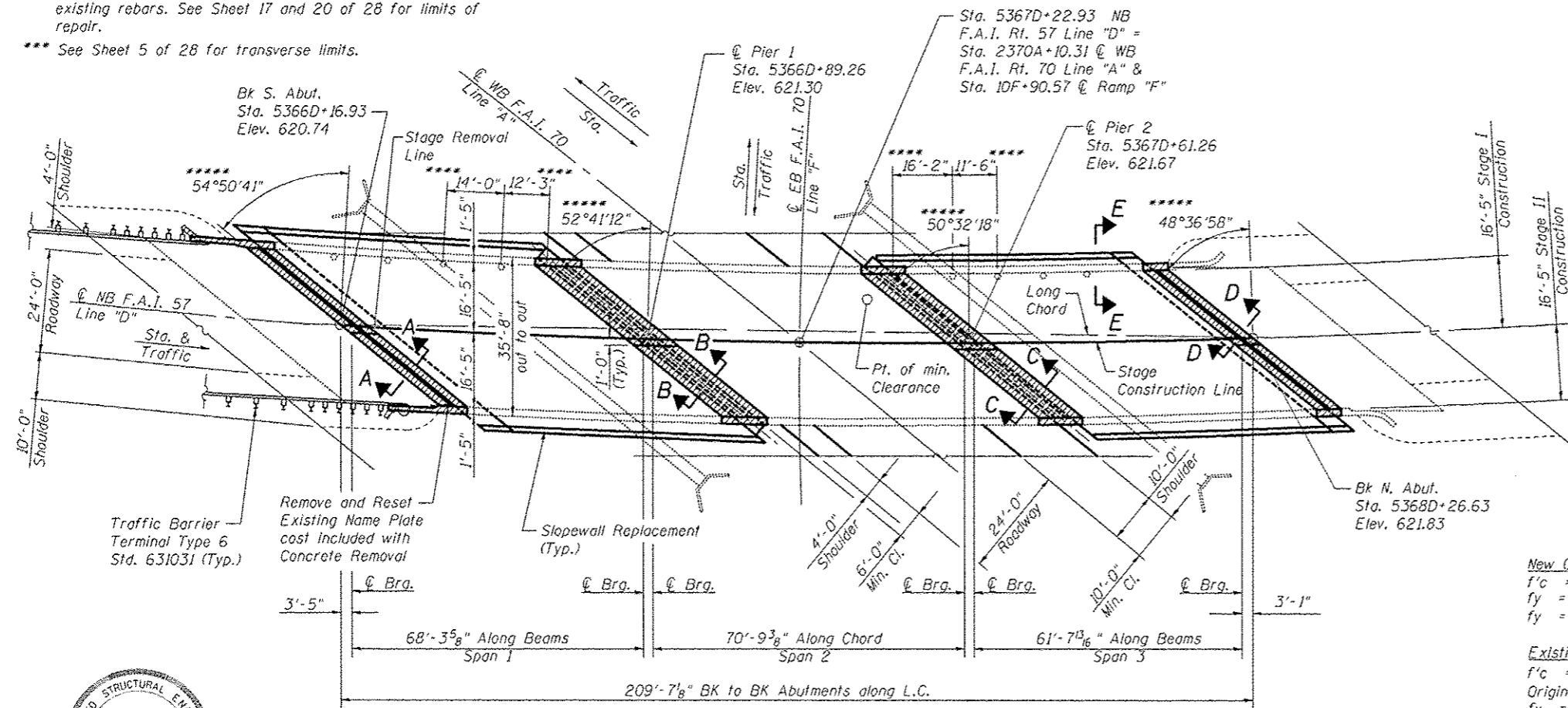
Bench Mark: Chiseled "□" Station 2345A+08, 44.0 ft left of centerline of survey on light pole base north side of I-57/I-70 Elev. 590.10.

Existing Structure: #025-0002 Constructed in 1960 and rehabilitated in 1976, 1987 and 2000 is 35'-8" out to out and 209'-7 1/8" BK to BK of abutments along the long chord. The structure consists of three simple spans of R.C. slab and composite steel I-Beams supported on spill through abutments and multi-column piers with hammer head caps. Traffic shall be maintained using staged construction.

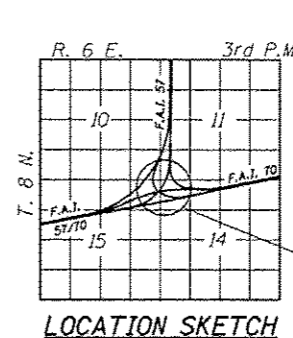


ELEVATION

- ▨ Indicates existing concrete and expansion devices to be removed and replaced.
- * Structural Repair of Concrete. See Sheets 25 and 28 of 28 for Limits of concrete repair.
- ** Limits of Concrete Removal (Special) and cleaning of existing rebars. See Sheet 17 and 20 of 28 for limits of repair.
- *** See Sheet 5 of 28 for transverse limits.



PLAN For sections A-A, B-B, C-C, D-D and E-E See Sheet 3 of 28.



INDEX OF SHEETS

1. General Plan
2. General Data
3. General Information
4. Concrete Removal & Deck Slab Repair Superstructure
5. Superstructure
6. Superstructure Slab Repair Details
7. Superstructure Bill of Materials & Parapet Details
8. Sloped Wall Details
9. Preformed Joint Strip Seal
10. Bar Splicer Assembly & Mechanical Splicer Details
11. Seismic Restrainer & Bracket Details
12. Bumper Details
13. Bumper Details Pier 1
14. Bumper Details Pier 2
15. Intentionally Blank
16. Bearing Details
17. Concrete Removal & Repair South Abutment
18. South Abutment Details
19. South Abutment Sections
20. Concrete Removal & Repair North Abutment
21. North Abutment Details
22. North Abutment Sections
23. Pier 1 General Plan
24. Pier 1 Details
25. Pier 1 Repair Details
26. Pier 2 General Plan
27. Pier 2 Details
28. Pier 2 Repair Details

LOADING HS20-44 & ALT.
No Future Wearing Surface

- DESIGN SPECIFICATIONS**
- 2002 AASHTO Standard Specifications for Highway Bridges
 - 1995 F.H.W.A. Seismic Retrofitting Manual for Highway Bridges
 - 2006 F.H.W.A. Seismic Retrofitting Manual for Highway Structures Part I-Bridges (Reference Only)

- **** Span 1 existing floor drains at 14'-0" on center and 12'-3" clr. from Pier 1.
- **** Span 3 existing floor drains at 11'-6" on center and 16'-2" clr. from Pier 2.
- **** No drains in Span 2.

- **** Skew angle measured to tangent at intersection of @ roadway & @ substructure.

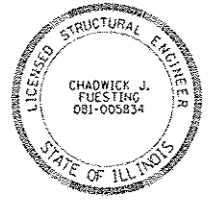
DESIGN STRESSES

- New Construction**
- f'c = 3,500 psi
 - fy = 60,000 psi (Reinforcement)
 - fy = 50,000 psi (Structural Steel) (AASHTO M270 Grade 50)
- Existing Structure**
- f'c = 3,500 psi
 - Original 1960 Construction
 - fy = 40,000 psi (Super & Sub) (Reinforcement)
 - fy = 33,000 psi (Structural Steel)
 - 1987 Widening
 - fy = 60,000 psi (Super) (Reinforcement)

SEISMIC DATA

- Seismic Performance Category (SPC) = B
- Bedrock Acceleration Coefficient (A) = 0.075 g
- Site Coefficient = 1.0

GENERAL PLAN
NORTHBOUND F.A.I. ROUTE 57 OVER
WESTBOUND F.A.I. ROUTE 70
STATION 5367D+22.93
STRUCTURE NO. 025-0002



Chadwick J. Fuesting 6/12/13

FILE NAME = 0250002-74295-001.dgn	USER NAME =	DESIGNED - BB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
ILLINOIS DESIGN FIRM NUMBER 184.001670	DESIGNED - BB	CHECKED - ACS	REVISED -		ST =	(25-4HB)-4	EFFINGHAM	1760	1678
PLOT SCALE =	DESIGNED - BB	DRAWN - WJS	REVISED -		SN 025-0002		CONTRACT NO. 74295		
PLOT DATE = 4:00 PM 6/12/2013	DESIGNED - BB	CHECKED - CJF & BB	REVISED -		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				