

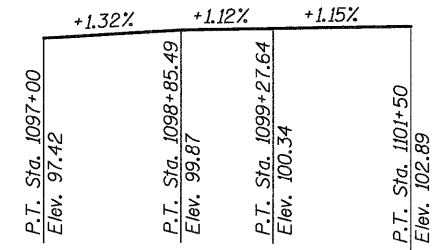
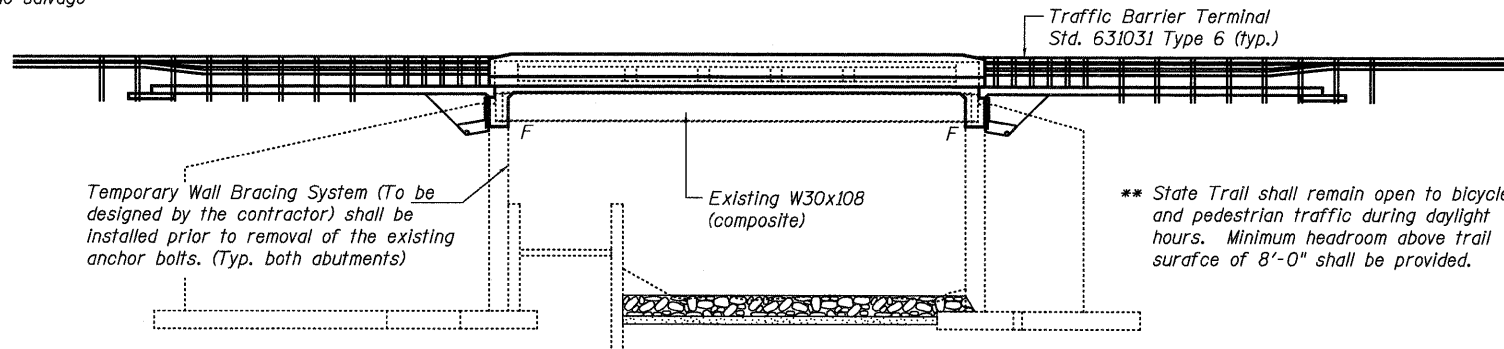
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Stage Construction Details
4. Temp. Conc. Barrier for Stage Construction
- 5.-6. Top of Slab Elevations
- 7.-8. Top of Approach Slab Elevations
9. Superstructure
10. Superstructure Details
11. Diaphragm Details
- 12.-13. Bridge Approach Slab Details
14. Structural Steel
15. Bearing Details
16. Abutment Repair Details
17. Bar Splicer Details

Bench Mark: Chisled "□" in top of S.W. wingwall S.N. 099-0036, Elev. 100.00.
Existing Structure: S.N. 099-0036 built in 1956 as I55 West Frontage Road, Section 86B-2. The existing structure is a single span steel multi-beam structure built on closed abutments. 43'-3" back to back abutments. 39'-4" out to out deck. Concrete deck to be removed and replaced using Stage Construction.

No salvage



PROFILE GRADE
(Along \hat{C} Roadway)

STATION 1099+06.50
RE-BUILT 20 BY
STATE OF ILLINOIS
F.A.I. RT. 55 W. FRONTAGE
ROAD - SEC. 86B-3-R
LOADING HS20
STR. NO. 099-0036

NAME PLATE
See Std. 515001

Existing name plate shall be cleaned and relocated next to the new Name Plate. Cost included with "Name Plates".

HIGHWAY CLASSIFICATION

F.A.I. Route 55 - I55 West Frontage Rd.
Local Road (Non-Urban)
ADT: 2000 (2004) 1,211 (2021)
DHV: 200 ADTT: 160
Speed: 45 mph (Posted) 45 mph (Design)
Two-way Traffic Directional Dist. 50:50

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS (NEW CONST.)

2002 AASHTO

DESIGN STRESSES

FIELD UNITS (NEW CONST.)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

FIELD UNITS (EXIST. CONST.)

$f'_c = 2,500$ psi (Substructure)
 $f_y = 40,000$ psi (Reinforcement)
 $f_y = 33,000$ psi (Structural Steel)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Horizontal Bedrock Acceleration Coefficient (A) = 0.039g
Site Coefficient (S) = 1.0

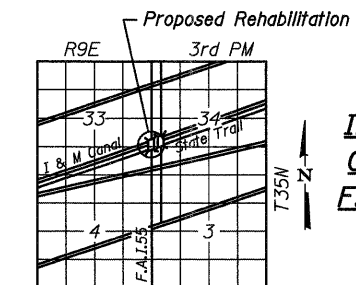
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (SE)
ENGINEER OF BRIDGES AND STRUCTURES



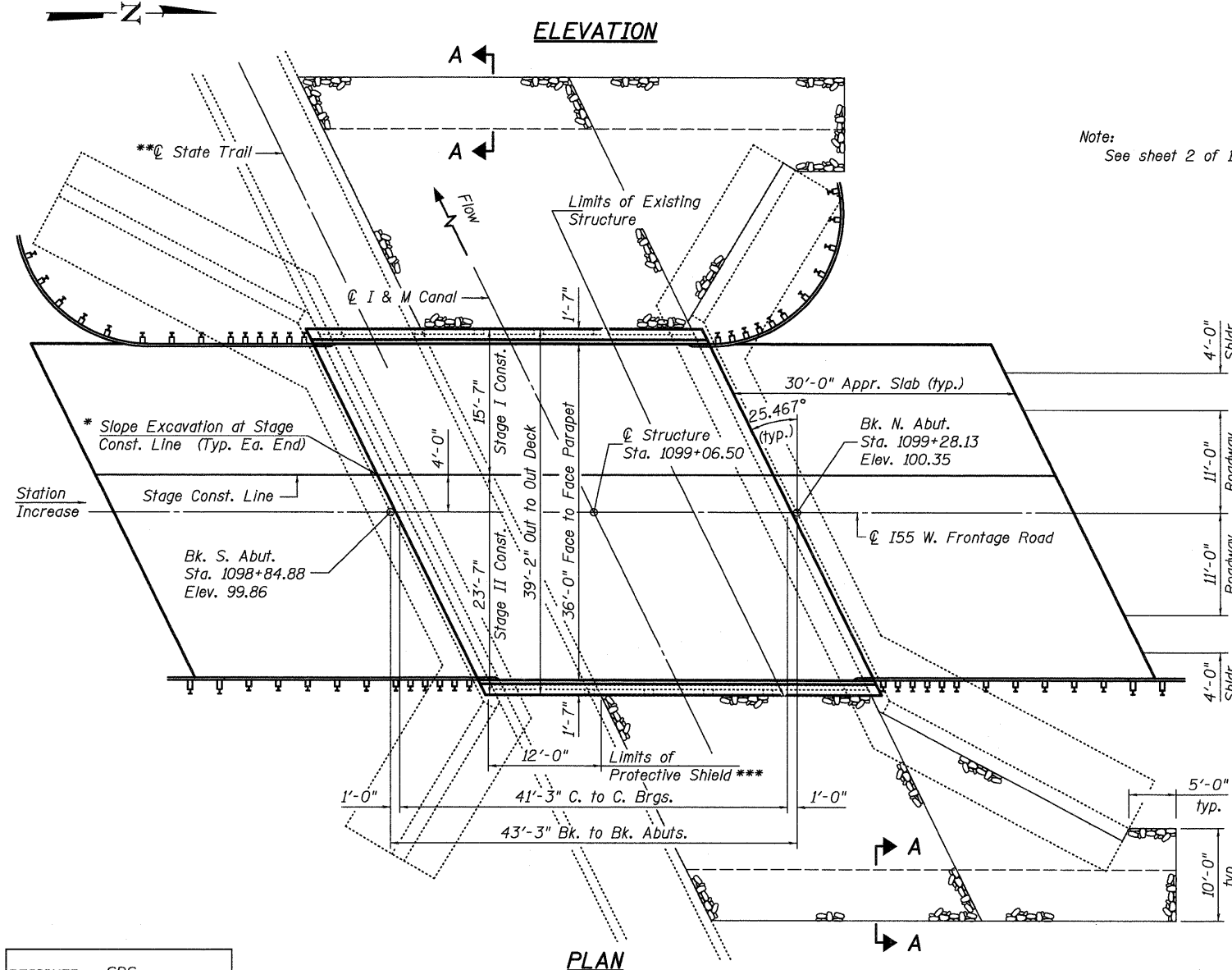
Expires: 11/30/2010

Scott D. Sapporo
9/9/09



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
INTERSTATE 55 W. FRONTAGE ROAD
OVER I & M CANAL & STATE TRAIL
F.A.I. ROUTE 55 - SECTION 86B-3-R
WILL COUNTY
STRUCTURE NO. 099-0036
PUBLIC WATERS



PLAN

Note:
See sheet 2 of 17 for Section A-A.

*** Existing protective shield within the limits of the new protective shield shall be removed prior to installation of new protective shield. Cost included with "Protective Shield".

DESIGNED - SDS
CHECKED - CWC
DRAWN - DLH
CHECKED - SDS/CEH

WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

SHEET NO. 1 17 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	86B-3-R	WILL	38	14
S.N. 099-0036		CONTRACT NO. 60F53			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		