B.M. #3008 - Cut "+" in West Flange Bolt of Fire Hydrant at Northeast Corner of US 67 and Ingham Lane,
FAP 310 Sta. 95+59, 51' Rt., Elev. 610.46

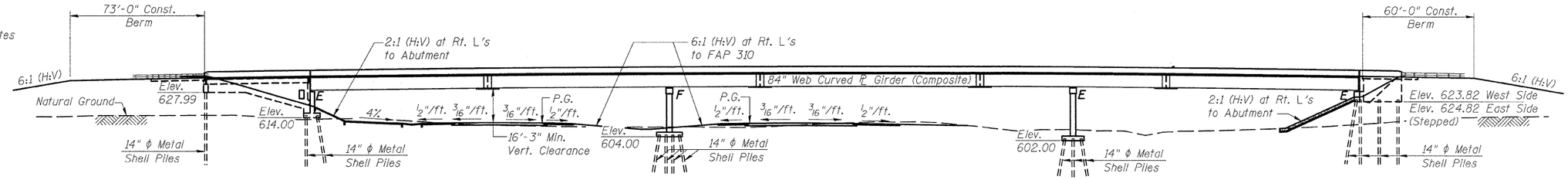
Existing Structure: None

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. P. 310	*	MADISON	93	23
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
47 SHEETS

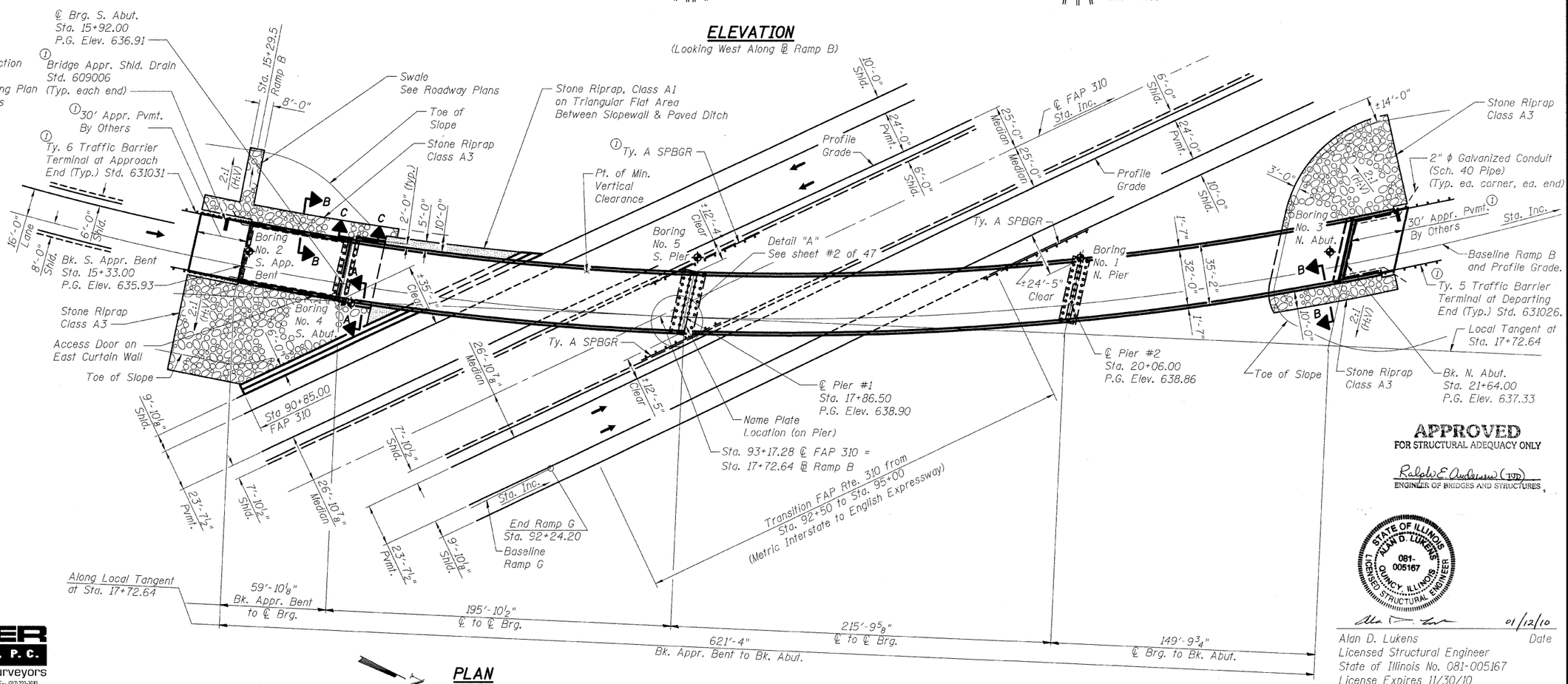
* 60-15HB-3 Contract No. 76706

INDEX OF SHEETS



ELEVATION

(Looking West Along ℄ Ramp B)



PLAN

CURVE DATA ℄ RAMP B

PI Sta. = 22+49.35
Δ = 60° 39' 53" (LT)
D = 3° 29' 34"
R = 1,640.42'
T = 959.83'
L = 1,736.88'
E = 260.17'
P.C. Sta. = 12+89.52
P.T. Sta. = 30+26.40
SE = 6.0%

Notes:

The width between the guardrails shall be the width between bridge parapets which will require approach shoulder widening.

See Sheet #3 of 47 for Sections A-A, B-B & C-C.

◆ Indicates Boring Location

1 Traffic Barrier Terminals, Approach Pavement, Approach Shoulder drains and Ty. A SPBGR are not included in this contract.

DESIGN SPECIFICATIONS

AASHTO Standard Specification for Highway Bridges (2002)
AASHTO Guide Specifications for Horizontally Curved Bridges (1993)

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Category (SPC)= A
Bedrock Acceleration Coefficient (A)= 0.080g
Site Coefficient (S)= 1.0

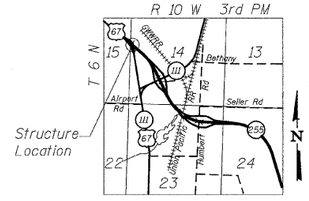
DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'_c = 6,000 psi
f'_{ci} = 5,000 psi
f'_s = 270,000 psi (1/2" ϕ Low Relaxation Strands)
f_{si} = 201,960 psi (1/2" ϕ Low Relaxation Strands)



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph W. E. Anderson (VD)
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS ALAN D. LUKENS 081-005167 QUINCY, ILLINOIS LICENSED STRUCTURAL ENGINEER

01/12/10

Alan D. Lukens — Date
Licensed Structural Engineer
State of Illinois No. 081-005167
License Expires 11/30/10

GENERAL PLAN and ELEVATION
RAMP B OVER FAP RTE. 310
SECTION 60-15HB-3
MADISON COUNTY
STATION 17+72.64 (RAMP B)
SN 060-0332

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□ 49 North Prairie Street, Galesburg, IL — Ph (309) 342-4842 - Fax (309) 341-3781
Internet Address: www.klingner.com
STATE OF ILLINOIS DESIGN FIRM # 1842738

DESIGNED	ADL
CHECKED	WLW
DRAWN	BGJ/ADL
CHECKED	WLW