BM 3022 - Railroad spike in power pole located on west side of railroad tracks. Mainline Sta. 39+175, 27 m Lt, Elev. 188.010

Existing Structure - None

① TEMPORARY SHEET PILING NOTES

Temporary Sheet Piling shall have a minimum Section Modulus = 1.74×10^6 mm^3/m

Excavation on pier side of Temp. Sheet Piling shall not extend below Bottom of Pier footing.

Excavation on Railroad side of Temp. Sht. Piling is not allowed.

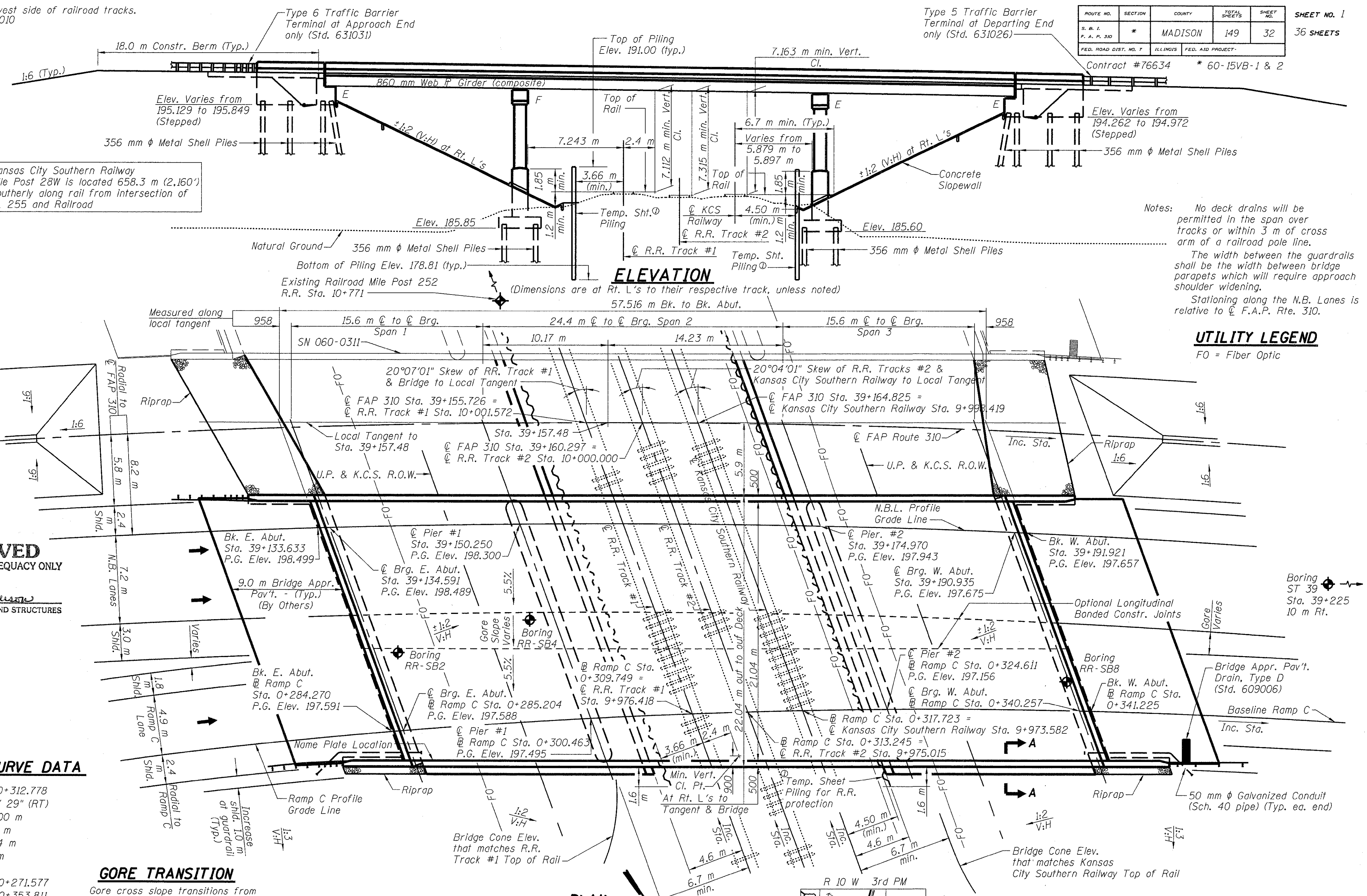
INDEX OF SHEETS

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

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

Alan D. Lukens — 5-7-09
Licensed Structural Engineer — Date
State of Illinois No. 081-005167
License Expires 11/30/10



Notes: No deck drains will be permitted in the span over tracks or within 3 m of cross arm of a railroad pole line.

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

Stationing along the N.B. Lanes is relative to ℄ F.A.P. Rte. 310.

UTILITY LEGEND

FO = Fiber Optic

FAP 310 CURVE DATA

PI STA. 39+183.523
Δ = 62° 37' 42" (RT)
R = 780.000 m
T = 474.512 m
L = 852.596 m
E = 132.996 m
PC Sta. 38+709.010
PT Sta. 39+561.606
SE = 5.5%

RAMP C CURVE DATA

PI Sta. = 0+312.778
Δ = 8° 58' 29" (RT)
R = 525.000 m
T = 41.201 m
L = 82.234 m
E = 1.614 m
SE = 5.5%
PC Sta. = 0+271.577
PT Sta. = 0+353.811

GORE TRANSITION

Gore cross slope transitions from 1.0% to 2.08% from FAP 310 Sta. 39+178.890 to Sta 39+210.881

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

LOADING MS18

Allow 2.4 kN/m^2 for future wearing surface.

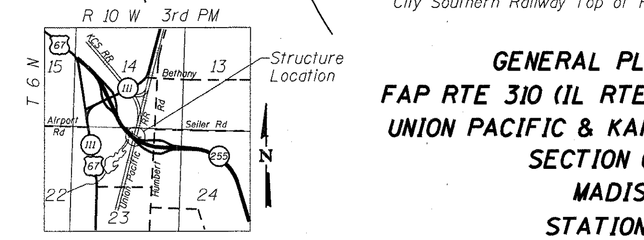
SEISMIC DATA

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

DESIGN STRESSES

FIELD UNITS

f'c = 24 MPa
fy = 400 MPa (reinf.)
fy = 345 MPa (M270M Grade 345)
fy = 250 MPa (M270M Grade 250)



LOCATION SKETCH

DESIGNED	ADL
CHECKED	WLW
DRAWN	DGM/ADL
CHECKED	WLW

KLINGNER & ASSOCIATES, P.C.
Engineers · Architects · Surveyors
www.klingner.com
STATE OF ILLINOIS DESIGN FIRM # 1842738

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.P. 310	*	MADISON	149	32

Contract #76634 * 60-15VB-1 & 2

SHEET NO. 1
36 SHEETS

GENERAL PLAN & ELEVATION
FAP RTE 310 (IL RTE 255) NB & RAMP C OVER UNION PACIFIC & KANSAS CITY SOUTHERN R.R.
SECTION 60-15VB-1 & 2
MADISON COUNTY
STATION 39+160.297
STRUCTURE NUMBER 060-0310

Klingner & Assoc., P.C.

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