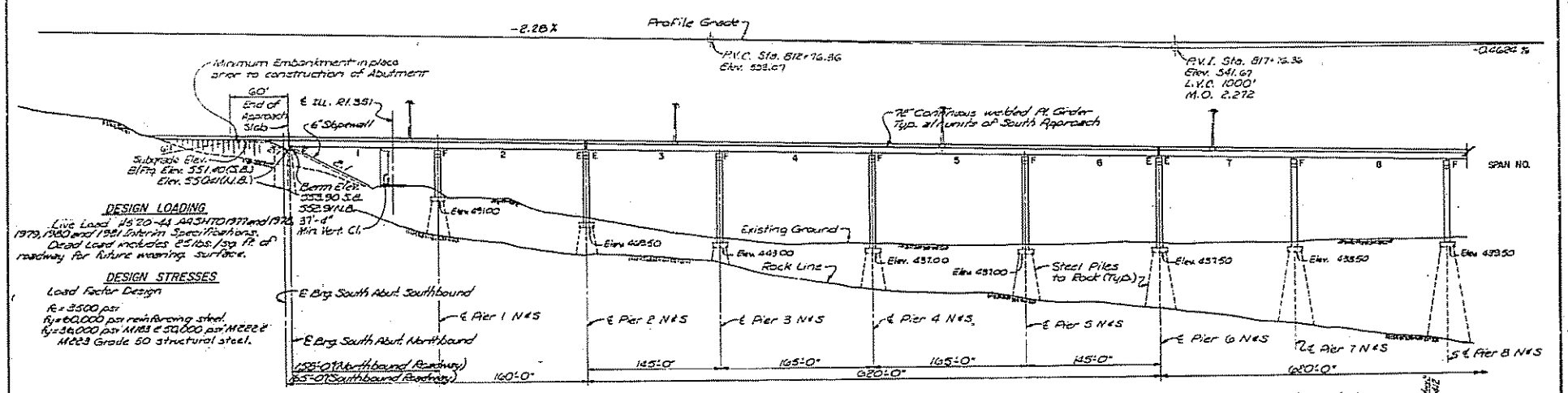
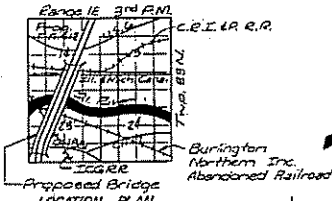
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.412	50-4B	LASALLE	265	8



DEVELOPED ELEVATION

Note: Ground line shown is at ℄ F.A.-412 except as noted
All spans are measured along ℄ F.A.-412.



LOCATION PLAN

CURVE 1L

P.I.	1809 + 05.97	R	7639.44
P.C.	1791 + 86.40	D	0°-45'-00"
P.T.	1819 + 93.51	T	1419.56
Δ	21°-03'-12" Rt.	L	2807.11
S.E.	0.03 ft./ft.	E	130.77

Begin S.E.A. Sta. 1790 + 26.40
Full S.E. Sta. 1792 + 66.40 to 1819 + 18.51
End S.E.R. Sta. 1821 + 53.51 C.U.1L = Sta. 821+53.51 (FA-412)

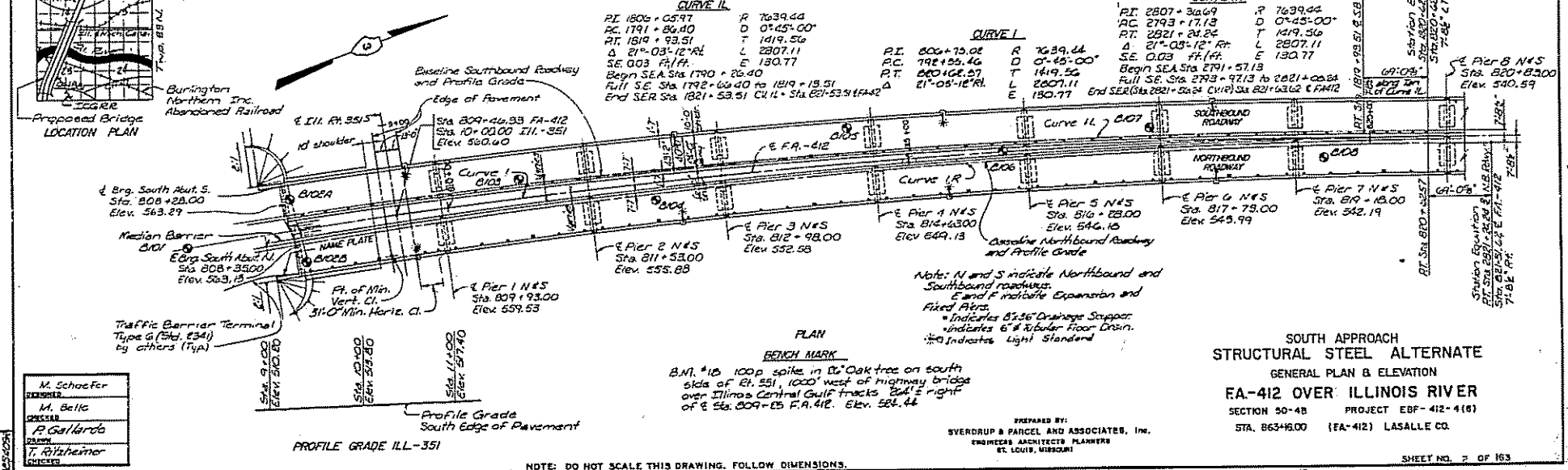
CURVE 1

P.I.	806 + 75.05	R	7639.44
P.C.	792 + 55.46	D	0°-45'-00"
P.T.	820 + 68.57	T	1419.56
Δ	21°-03'-12" Rt.	L	2807.11
		E	130.77

CURVE 1R

P.I.	2807 + 30.69	R	7639.44
P.C.	2793 + 17.13	D	0°-45'-00"
P.T.	2821 + 24.24	T	1419.56
Δ	21°-03'-12" Rt.	L	2807.11
S.E.	0.03 ft./ft.	E	130.77

Begin S.E.A. Sta. 2791 + 57.13
Full S.E. Sta. 2793 + 97.13 to 2821 + 00.24
End S.E.R. (Sta. 2821 + 50.24 C.U.1R) Sta. 821+63.62 ℄ FA412



PROFILE GRADE ILL.-351

Note: N and S indicate Northbound and Southbound roadways.
E and F indicate Expansion and Fixed Abts.
• Indicates 8"x16" Drainage Scupper
• Indicates 6" ø Tubular Floor Drain.
Indicates Light Standard

PLAN

BENCH MARK

B.M. #18 100p spike in 12" Oak tree on south side of Rt. 551, 1000' west of highway bridge over Illinois Central Gulf tracks 20'± right of ℄ Sta. 809+65 F.A.412. Elev. 582.44

PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI

SOUTH APPROACH
STRUCTURAL STEEL ALTERNATE
GENERAL PLAN & ELEVATION
FA-412 OVER ILLINOIS RIVER
SECTION 50-4B PROJECT EBF-412-4(8)
STA. 863+16.00 (FA-412) LASALLE CO.

M. Schaefer	DESIGNED
M. Belle	CHECKED
P. Gallardo	DRAWN
T. Ritzheimer	CHECKED

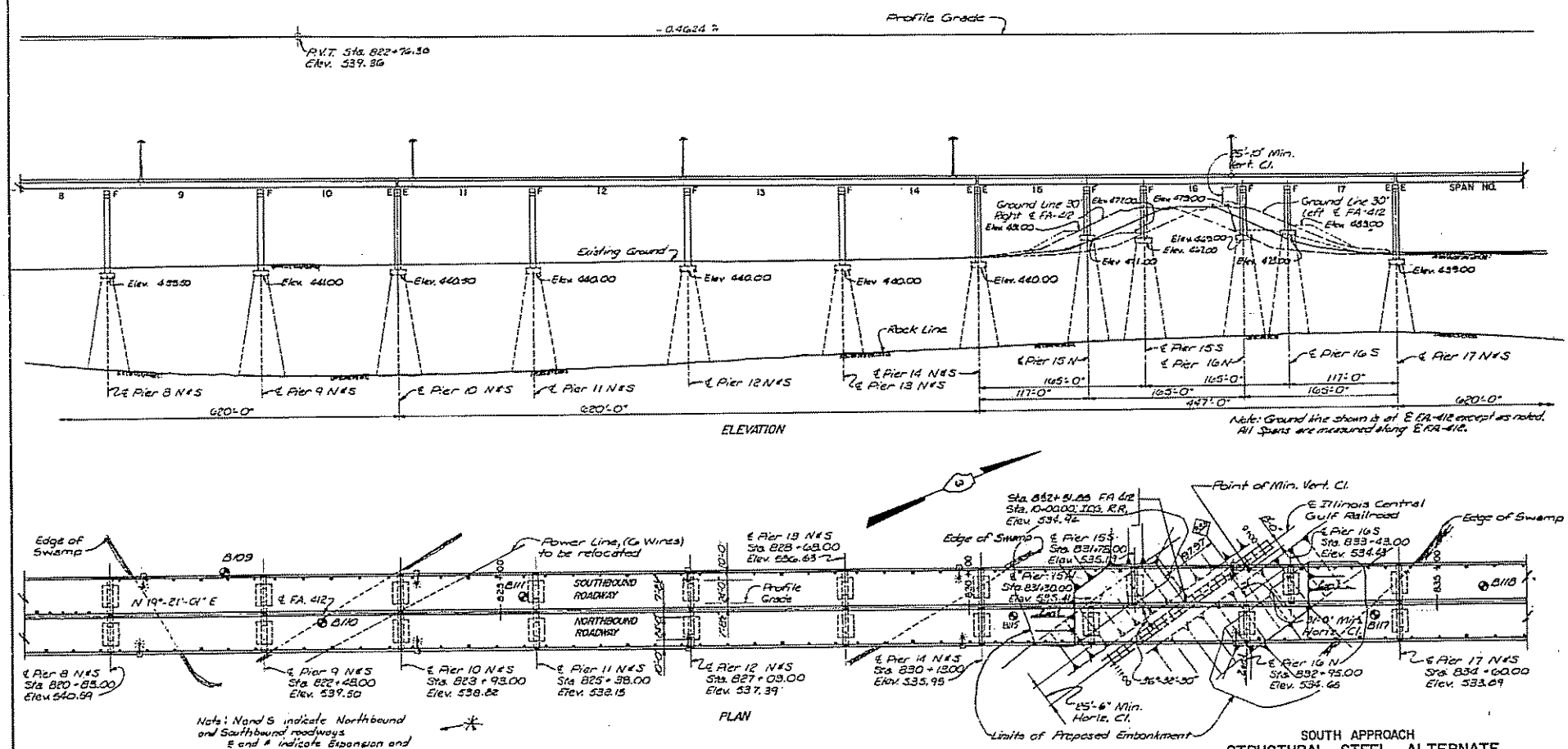
SHEET NO. 7 OF 163

NOTE: DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

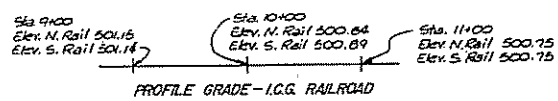
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.412	50-4B	LASALLE	245	9

FED. ROAD DIST. NO. 1 ILLINOIS PROJECT EBF-412-4(6)



Note: N and S indicate Northbound and Southbound roadways
E and F indicate Expansion and Fixed Piers.
* Indicates 8" x 36" Drainage Scuppers.
• Indicates 6" ϕ Tubular Floor Drain.
⁂ Indicates Light Standard.



PROFILE GRADE - I.C.G. RAILROAD

NOTE: DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

M. Schaefer — DESIGNED
M. Bello — CHECKED
P. Gallardo — DRAWN
T. Ritzheimer — CHECKED

PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI

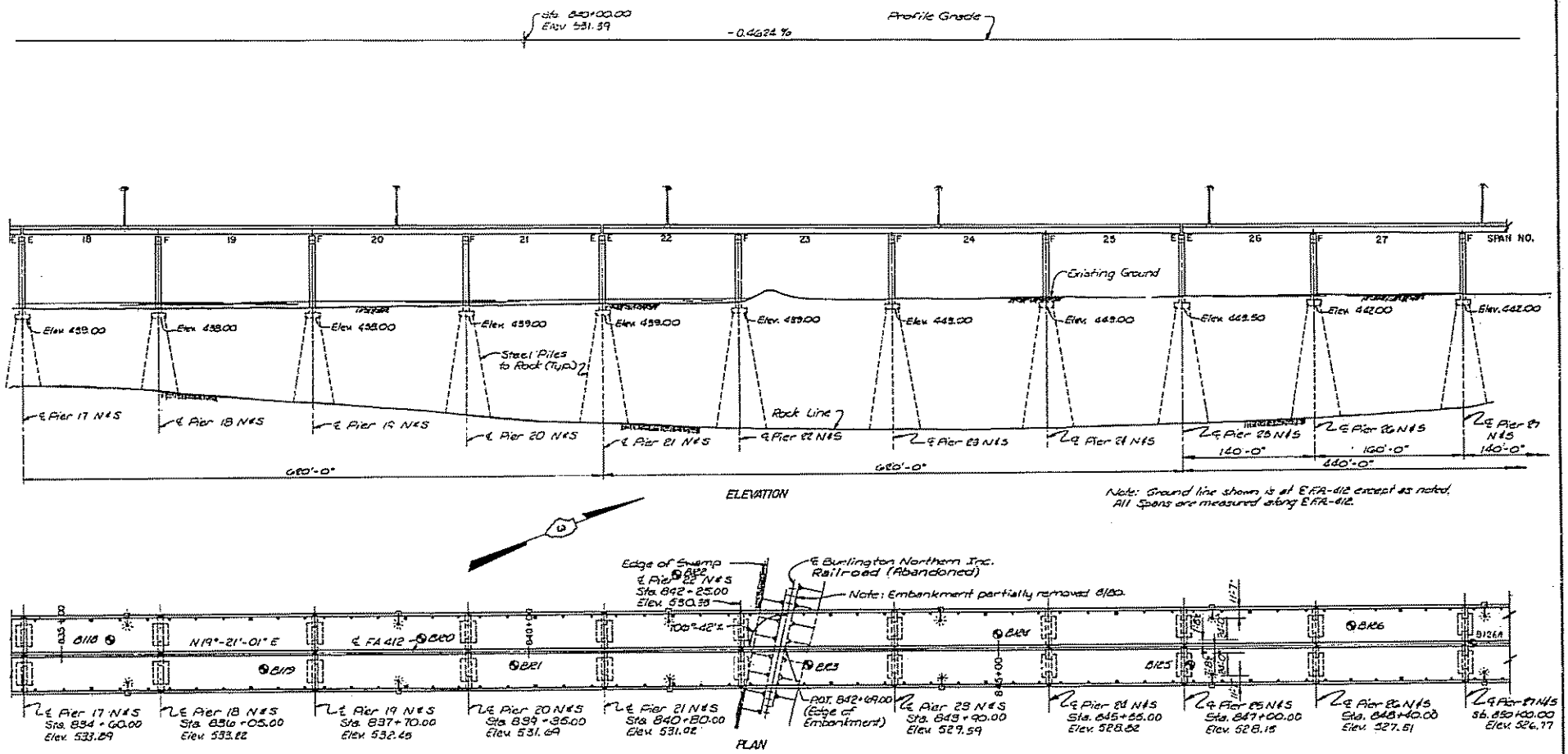
SOUTH APPROACH
STRUCTURAL STEEL ALTERNATE
GENERAL PLAN & ELEVATION
FA-412 OVER ILLINOIS RIVER
SECTION 50-4B. PROJECT EBF-412-4(6)
STA. 863+16.00 (FA-412) LASALLE CO.

SHEET NO. 3 OF 163

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 412	50-48	LASALLE	245	10

FED. ROAD DIST. NO. 7 ILLINOIS PROJECT EDF-412-4(6)



Note: N and S indicate Northbound and Southbound roadways.
E and F indicate Expansion and Fixed Piers.
• Indicates 8"x36" Drainage Scupper.
• Indicates 6" Ø Tubular Floor Drain.
*⊕ Indicates Light Standard

BENCH MARK
B.M. #2HA 100p spike in top of 7' Elm stump
190'± left of ℄ Sta. 843+19 F.A.-412, Elev. 460.21

SOUTH APPROACH
STRUCTURAL STEEL ALTERNATE
GENERAL PLAN & ELEVATION
FA-412 OVER ILLINOIS RIVER
SECTION 50-48 PROJECT EDF-412-4(6)
STA. 863+16.00 (FA-412) LASALLE CO.

PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI

M. Schaefer
DESIGNED
M. Bello
CHECKED
P. Gallardo
DRAWN
T. Ritzheimer
CHECKED

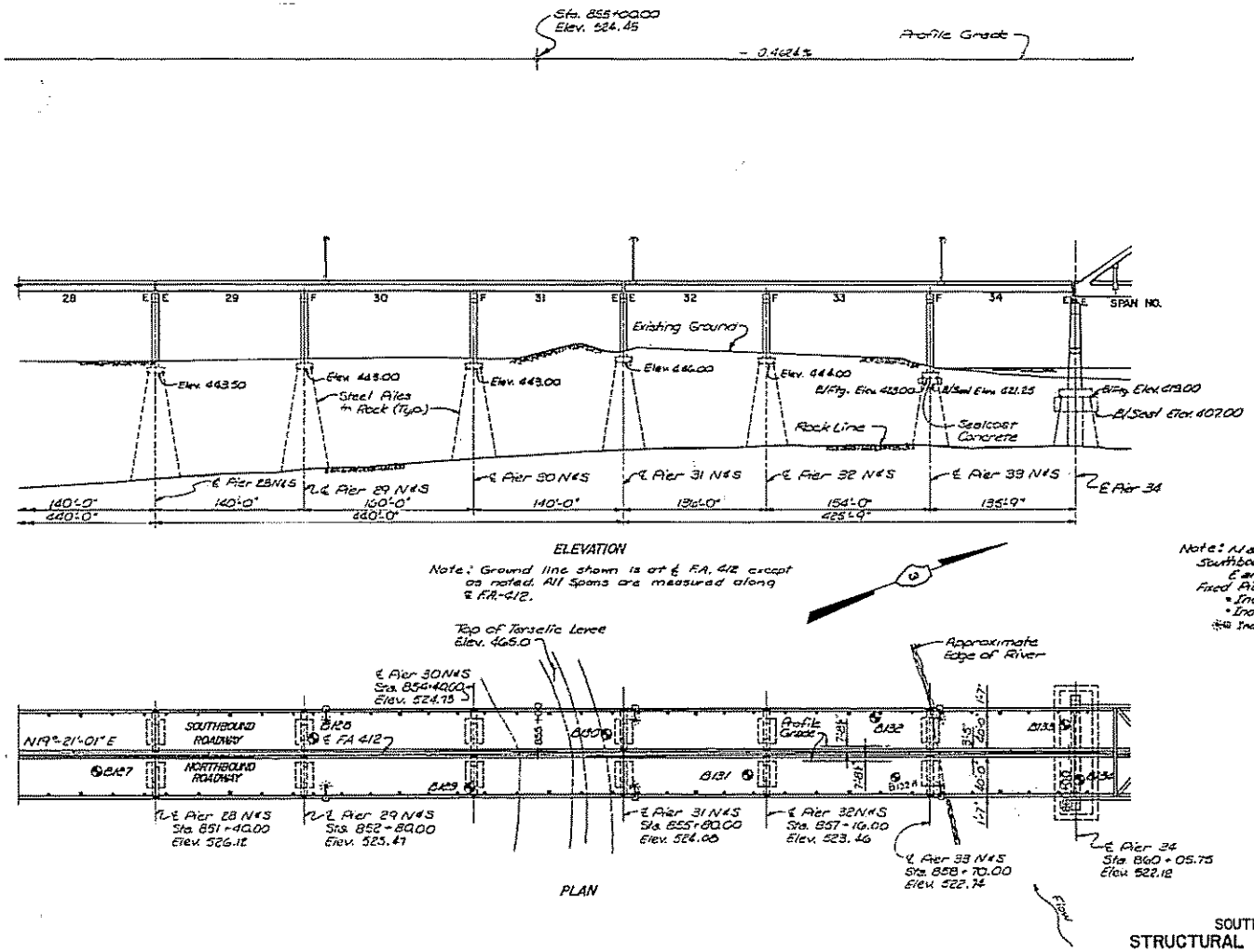
NOTE: DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

SHEET NO. 4 OF 163

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 412	50-4B	LASALLE	245	11

FED. ROAD DIST. NO. 7 ILLINOIS PROJECT EBF-412-4(8)



SOUTH APPROACH
STRUCTURAL STEEL ALTERNATE
GENERAL PLAN & ELEVATION
FA.-412 OVER ILLINOIS RIVER
SECTION 50-4B PROJECT EBF-412-4(8)
STA. 863+16.00 (FA-412) LASALLE CO.

DESIGNED	M. Schaefer
CHECKED	M. Bella
DRAWN	P. Gallardo
CHECKED	T. Pitchenner

PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI

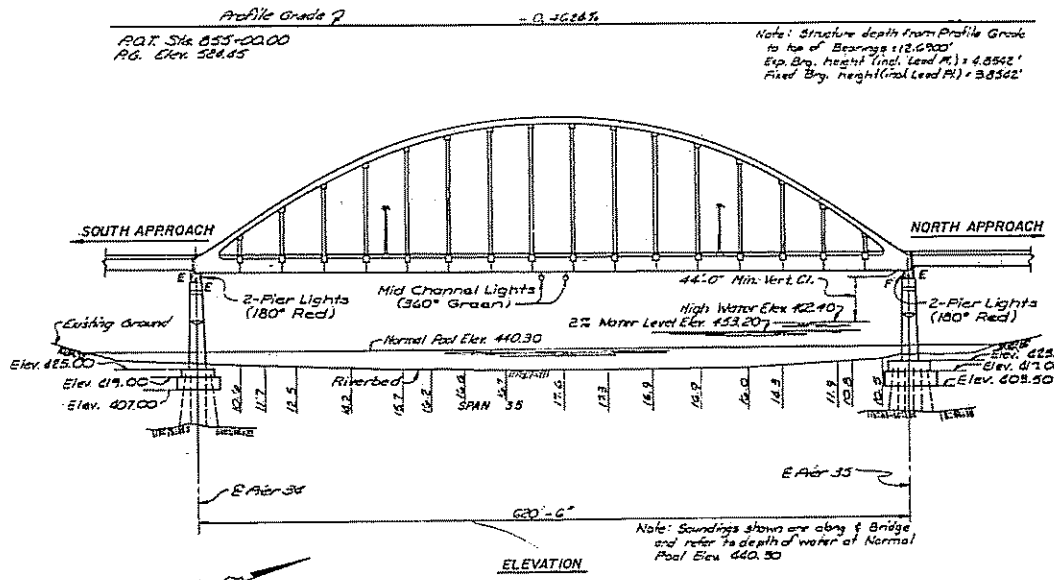
NOTE: DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

SHEET NO. 5 OF 163

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.412	50-4B	LASALLE	265	171

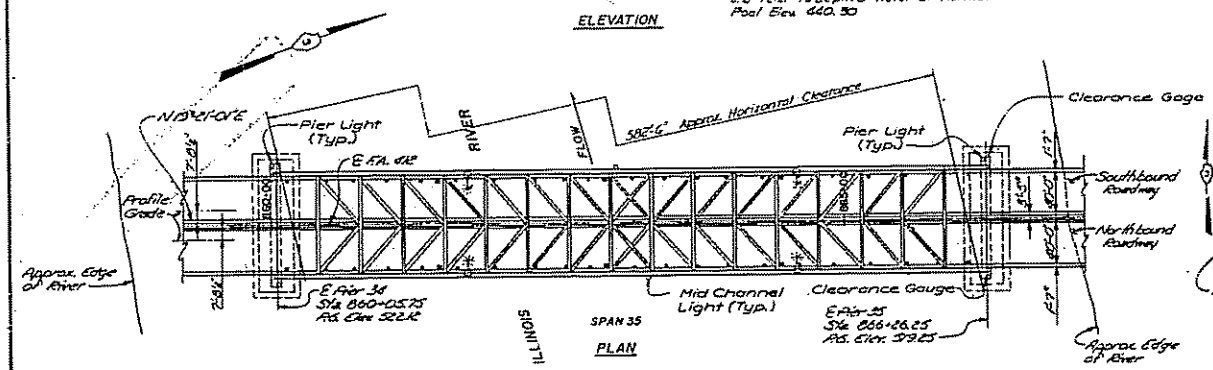
FED. ROAD SYSTEM | ILLINOIS | PROJECT EBF-412-4(6)

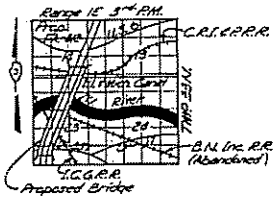


WATERWAY INFORMATION

Drainage Area 6,259 sq. mi.		Low Grade Elev.			High Level Bridge at Sta. 863+16.00				
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head — Ft. Exist.	Head — Ft. Prop.	Headwater Elev. Exist.	Headwater Elev. Prop.
Design	50	95,000	—	70,600*	463.4	—	—	—	463.4
Base	100	97,500	—	77,180*	464.9	—	—	—	464.9
Overtopping									
Max. Calc.	500								

* Gross waterway opening (Includes Piers)





LOCATION PLAN

BENCH MARK

B.M. #23 Railroad spike in north base of 20" Willow tree 150'± right of E Sta. 867+67 Elev. 413.96

* Indicates 8"x36" Drainage Scupper
* Indicates 6" Tubular Floor Drain.
*-a Indicates Light Standard

PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, INC.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI

NORTH APPROACH
ARCH. SPAN DECK
STRUCTURAL STEEL ALTERNATE
GENERAL PLAN AND ELEVATION
FA-412 OVER ILLINOIS RIVER
SECTION 50-4B PROJECT EBF-412-4(6)
STA. 863+16.00 (FA-412) LASALLE CO.

C. Wieczorek DESIGNED	
G. Roufa CHECKED	
R. Prescher DRAWN	
T. Rittenhelmer CHECKED	

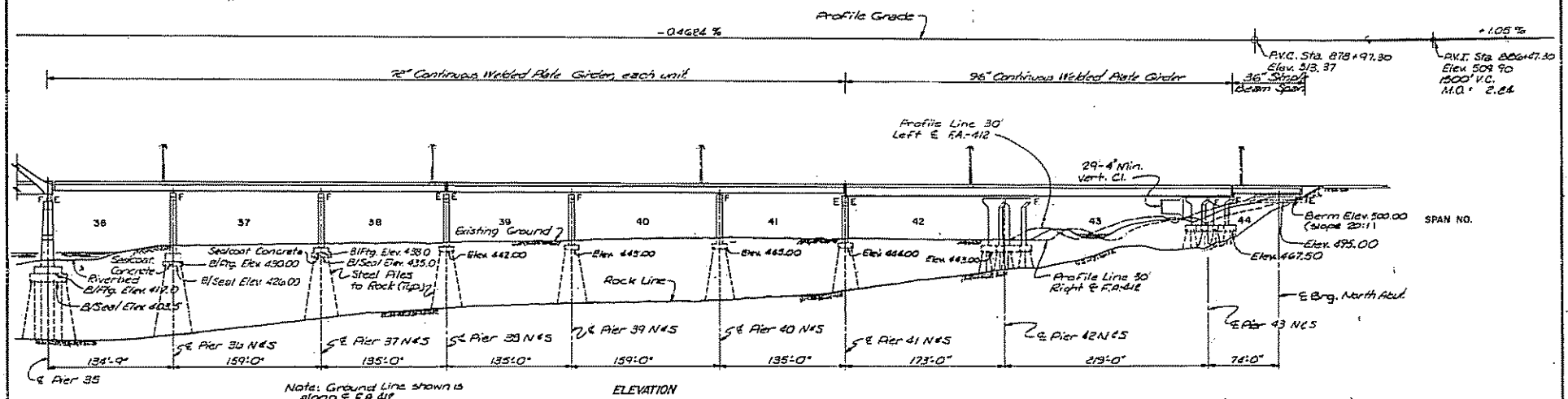
NOTE: DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

SHEET NO. 2 OF 76

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.412	50-4B	LASALLE	245	172

FED. ROAD DIST. NO. 7 | ILLINOIS PROJECT EBF-412-4(6)



Note: Ground Line shown is along ℄ F.A.412.

ELEVATION

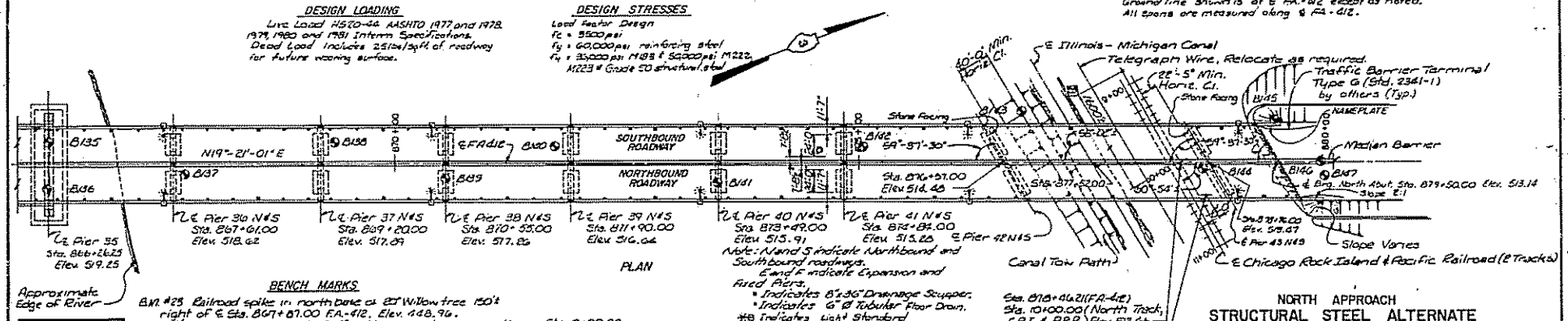
Note: Piers 42 & 43 N&S shall have a special masonry facing on Span 43 side. See Special Provisions. Ground line shown is at ℄ FA-412 except as noted. All spans are measured along ℄ FA-412.

DESIGN LOADING

Live Load HS20-44 AASHTO 1977 and 1978, 1979, 1980 and 1981 Interim Specifications. Dead Load Includes 25lbs/sq.ft. of roadway for future wearing surface.

DESIGN STRESSES

Load Factor Design
f_c = 3500 psi
f_y = 60,000 psi reinforcing steel
f_y = 33,000 psi M183 & 50,000 psi M222, M223 & Grade 50 structural steel



Note: N and S indicate Northbound and Southbound roadways.
E and F indicate Expansion and Fixed Piers.
* Indicates 8"x36" Drainage Scupper.
* Indicates 6" Ø Tubular Floor Drain.
*B Indicates Light Standard

PLAN

BENCH MARKS

B.M. #23 Railroad spike in north base of 20" Willow tree 150'± right of ℄ Sta. 867+87.00 FA.-412. Elev. 448.96.
B.M. #24 100 p. spike in root of 18" Cottonwood tree on south side of Illinois-Michigan Canal 875'± left of ℄ Sta. 875+25.00 F.A.-412. Elev. 454.14.
B.M. #25 Chiseled "O" on west end of concrete culvert headwall on south side of Rock Island tracks 279'± left of ℄ Sta. 876+47. Elev. 468.07

PROFILE GRADE - CHICAGO ROCK ISLAND & PACIFIC RAILROAD

Sta. 878+46.21 (F.A.-412)
Sta. 10+00.00 (North Track, C.R.I. & P.R.R.) Elev. 518.64
Pt. of Min. Vert. Cl.

PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, Inc.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI

NORTH APPROACH
STRUCTURAL STEEL ALTERNATE
GENERAL PLAN & ELEVATION
FA.-412 OVER ILLINOIS RIVER
SECTION 50-4B PROJECT EBF-412-4(6)
STA. 863+16.00 (FA.-412) LASALLE CO

DESIGNED	M. Schaefer
CHECKED	M. Bella
DRAWN	P. Gallardo
CHECKED	T. Ritzheimer

8683 ACSCOP

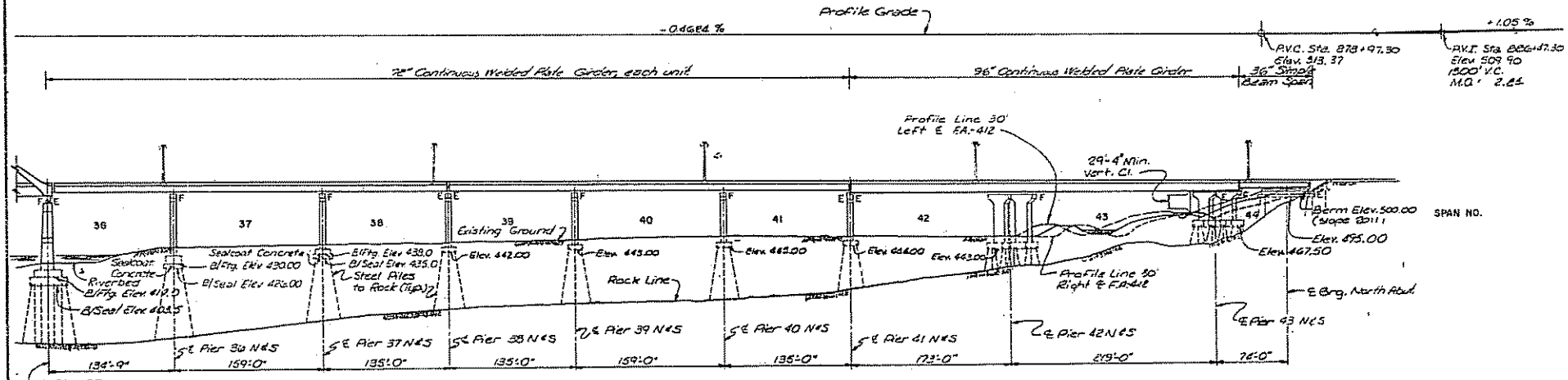
NOTE: DO NOT SCALE THIS DRAWING, FOLLOW DIMENSIONS.

SHEET NO. 3 OF 76

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.412	50-4B	LASALLE	245	172A

FED. ROAD DIST. NO. 7 ILLINOIS PROJECT EBF-412-4(6)



Note: Ground Line shown is along ℄ F.A.412.

ELEVATION

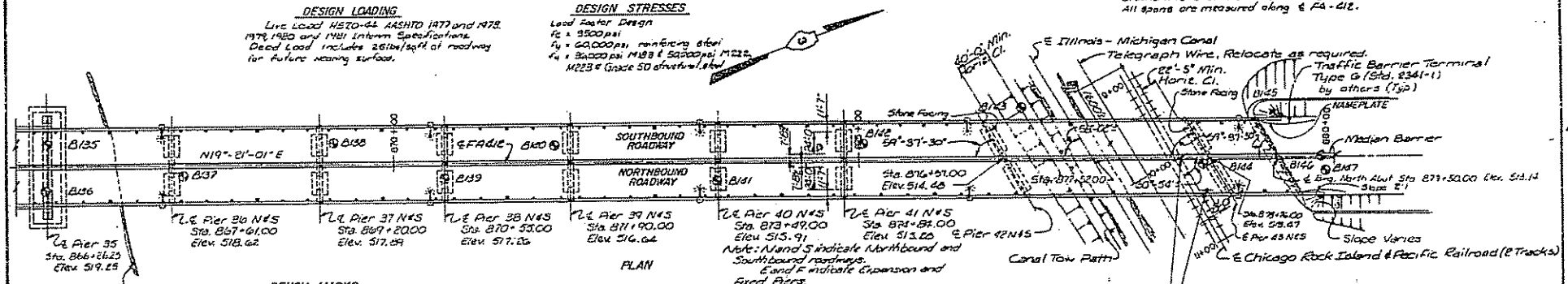
Note: Piers 42 & 43 N&S shall have a special masonry facing on Span 43 side. See Special Provisions. Ground line shown is at ℄ FA.-412 except as noted. All spans are measured along ℄ FA.-412.

DESIGN LOADING

Live Load HS20-44 AASHTO 1977 and 1978, 1979, 1980 and 1981 Interim Specifications.
Dead Load includes 26lbs/sqft of roadway for future wearing surface.

DESIGN STRESSES

Load Factor Design
f'_c = 3500 psi
f_y = 60,000 psi reinforcing steel
f_y = 36,000 psi M183 & 50,000 psi M222, M223 & Grade 50 structural steel



Note: N and S indicate Northbound and Southbound roadways.
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⊗ Indicates Light Standard

BENCH MARKS

B.M. #23 Railroad spike in north base of 20" Willow tree 150'± right of ℄ Sta. 867+87.00 FA.-412. Elev. 448.96.
B.M. #24 100 p.p. spike in root of 18" Cottonwood tree on south side of Illinois-Michigan Canal 275'± left of ℄ Sta. 875+55.00 FA.-412. Elev. 454.14.
B.M. #26 Chiseled "D" on west end of concrete culvert headwall on south side of Rock Island tracks 279'± left of ℄ Sta. 876+47. Elev. 448.07

AS REVISED

PROFILE GRADE-CHICAGO ROCK ISLAND & PACIFIC RAILROAD

NOTE: DO NOT SCALE THIS DRAWING, FOLLOW DIMENSIONS.

PREPARED BY:
SVERDRUP & PARCEL AND ASSOCIATES, INC.
ENGINEERS ARCHITECTS PLANNERS
ST. LOUIS, MISSOURI

NORTH APPROACH
STRUCTURAL STEEL ALTERNATE
GENERAL PLAN & ELEVATION
FA.-412 OVER ILLINOIS RIVER

SECTION 50-4B PROJECT EBF-412-4(6)
STA. 863+16.00 (FA-412) LASALLE CO

SHEET NO. 3 OF 76

M. Schaefer	DESIGNED
M. Belic	CHECKED
P. Gallardo	DRAWN
T. Ritzheimer	CHECKED

As revised 6-30-85