

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
00-00094-03-BR	COOK	69	20	
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			
Sheet SA-1 of SA-23	CONTRACT 83850			

Bench Mark:  
Brass plate in front steps on east side of Village Hall, 510 Green Bay Road.  
Elev. 657.79

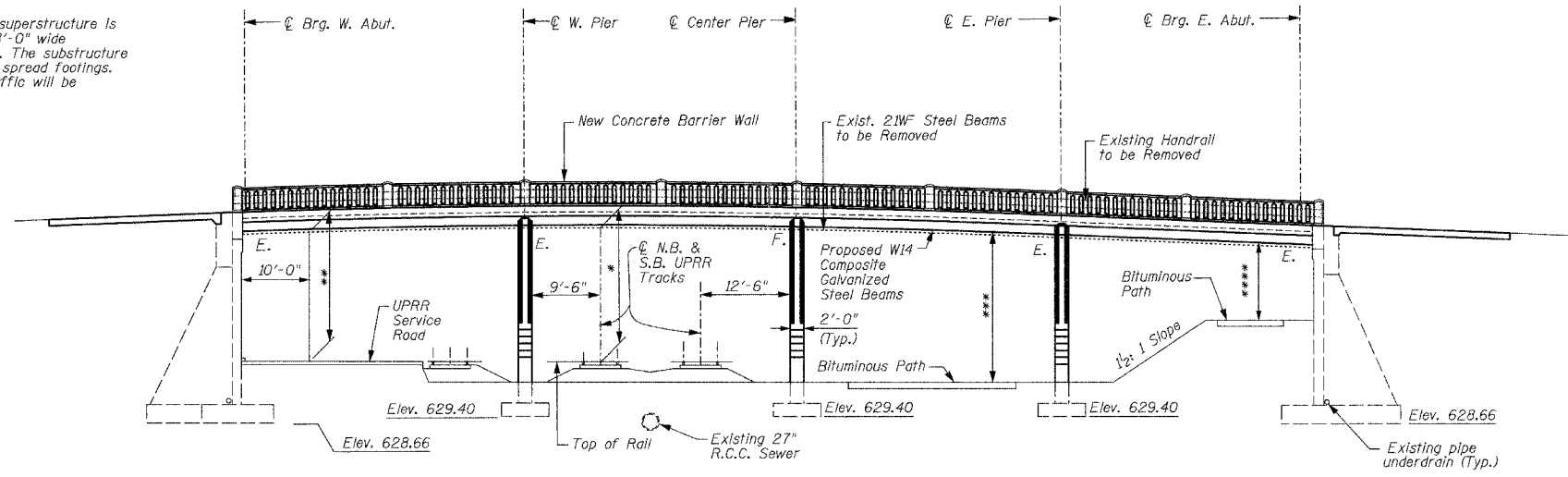
Existing Structure: SN 016-8259. Built in 1940. The superstructure is R.C. Deck 155'-7" long Bk. to Bk. of Abutments by 38'-0" wide supported on four-span rolled beams. Skew 18°10'00". The substructure is R.C. Multi-column piers & counterfort abutments on spread footings. The superstructure will be removed and replaced. Traffic will be detoured during construction.

No salvage.

Note:  
No deck drains will be permitted in the spans over tracks or within 10' feet of cross arms of a railroad pole line. Storm water collected on the bridge will be deposited into Village storm drains East and West of the bridge as shown in Sheet No. 11.

TABLE 1 - TRACK ELEVATION:

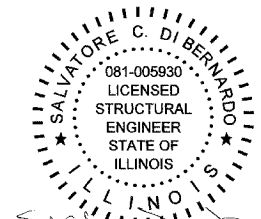
Point No.	Elevation	Location
1	637.20	SPUR - N
2	637.12	SPUR - S
3	637.75	N.B. - N
4	637.57	N.B. - S
5	637.62	S.B. - N
6	637.48	S.B. - S



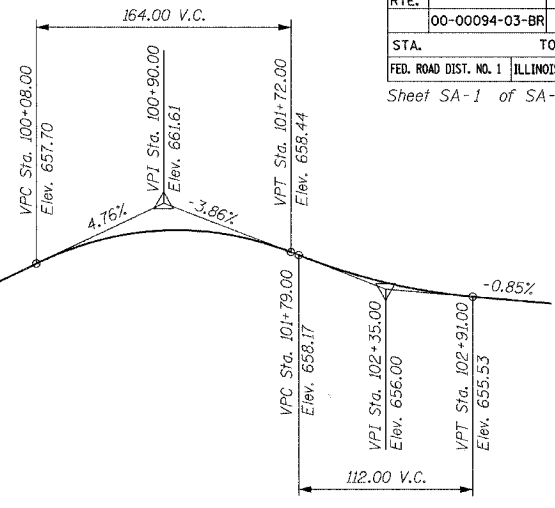
**ELEVATION**

- \* Existing Min. Vert. Cl. 19'-2"
- Proposed Min. Vert. Cl. 19'-8"
- \*\* Existing Min. Vert. Cl. 18'-7"
- Proposed Min. Vert. Cl. 19'-1"
- \*\*\* Proposed Min. Vert. Cl. 21'-0"
- \*\*\*\* Proposed Min. Vert. Cl. 8'-5"

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".



DATE: 7/20/2006  
SEAL EXPIRES: 11/30/2006



**PROPOSED P.G.L. PINE STREET**

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges

**LOADING HS20-44**

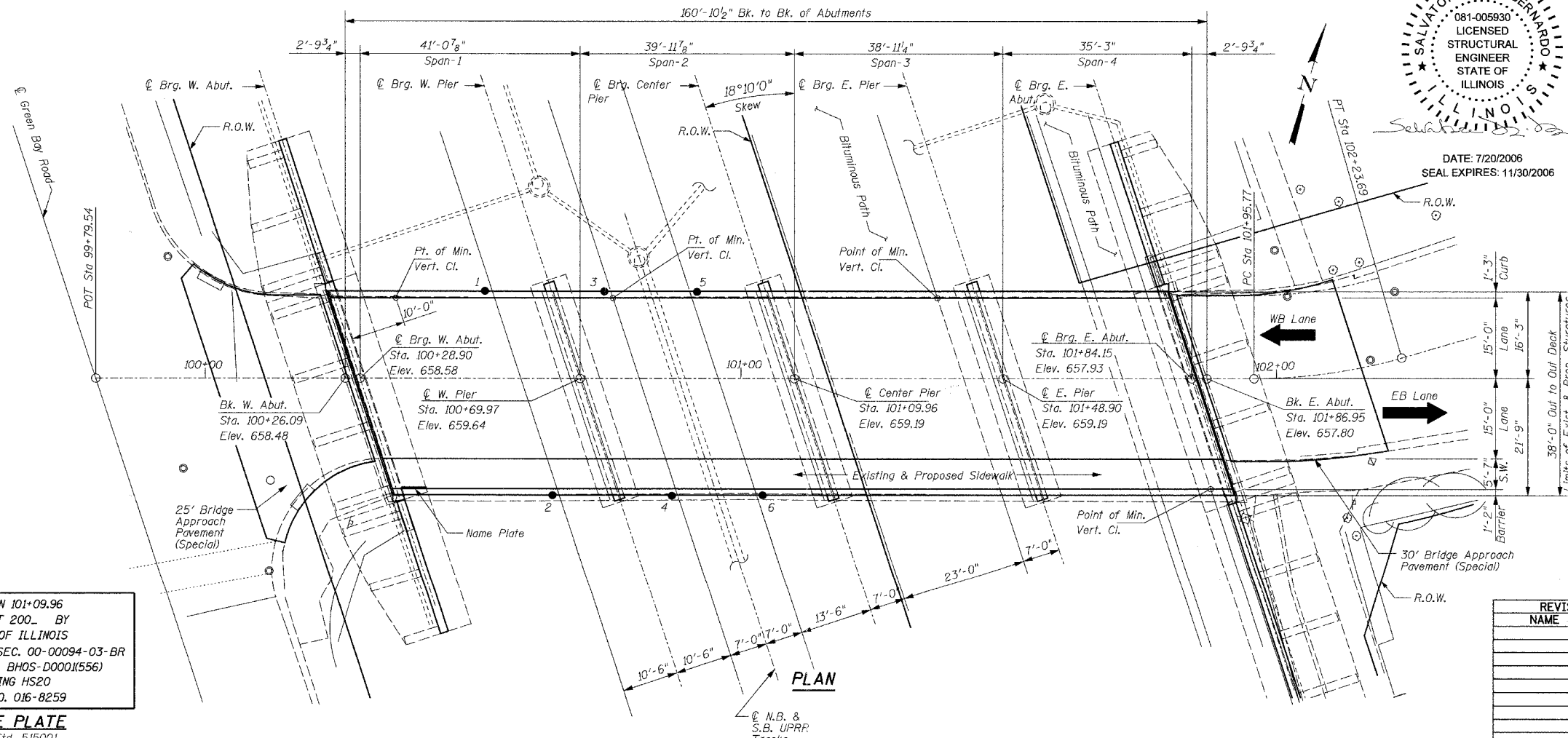
Allow 50 p.s.f. for future wearing surface.

**DESIGN STRESSES**

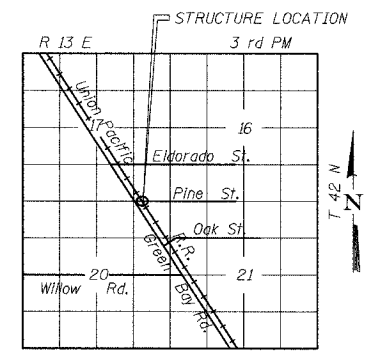
- $f_s = 18,000$  p.s.i. (Existing)
- $f_c = 1,050$  p.s.i. (Existing)
- $f_c = 3,500$  p.s.i. (Proposed)
- $f_y = 60,000$  p.s.i. (Proposed Reinforcing Steel)
- $f_y = 50,000$  p.s.i. (Proposed Structural Steel-M270 Grade 50)

**SEISMIC DATA**

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.04 g  
Site Coefficient (S) = 1.0



**PLAN**



**LOCATION SKETCH**

STATION 101+09.96  
BUILT 200\_ BY  
STATE OF ILLINOIS  
F.A.U RT. SEC. 00-00094-03-BR  
F.A.U PROJ. NO. BHOS-D0001(556)  
LOADING HS20  
STR. NO. 016-8259  
**NAME PLATE**  
See Std. 515001

REVISIONS	
NAME	DATE

**Clorba Group, Inc.**  
CONSULTING ENGINEERS  
3001 NORTH CUMBERLAND AVENUE - CHICAGO, ILLINOIS 60656 - (773) 775-4000

VILLAGE OF WINNETKA, ILLINOIS  
GENERAL PLAN & ELEVATION  
PINE STREET OVER THE UNION PACIFIC R.R.  
R.R. MILE POST 16.89 KENOSHA SUBDIVISION  
COOK COUNTY STA. 101+09.96  
STRUCTURE NO. 016-8259

SCALE: NONE  
DATE: JUNE 2006  
FILE: 3278

DRAWN BY: RCD  
DESIGN BY: BWS  
CHECKED BY: SCD

DATE: 7/20/2006  
FILENAME: N:\PROJ\9278\Pine\Design\Structural\_Pine\_9278\CAD\Final\_plan\_rev\9278-Pine-gp01.dgn