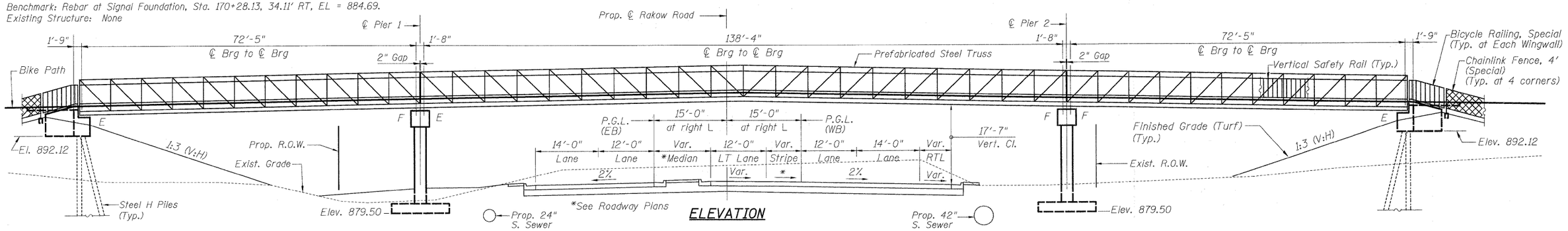
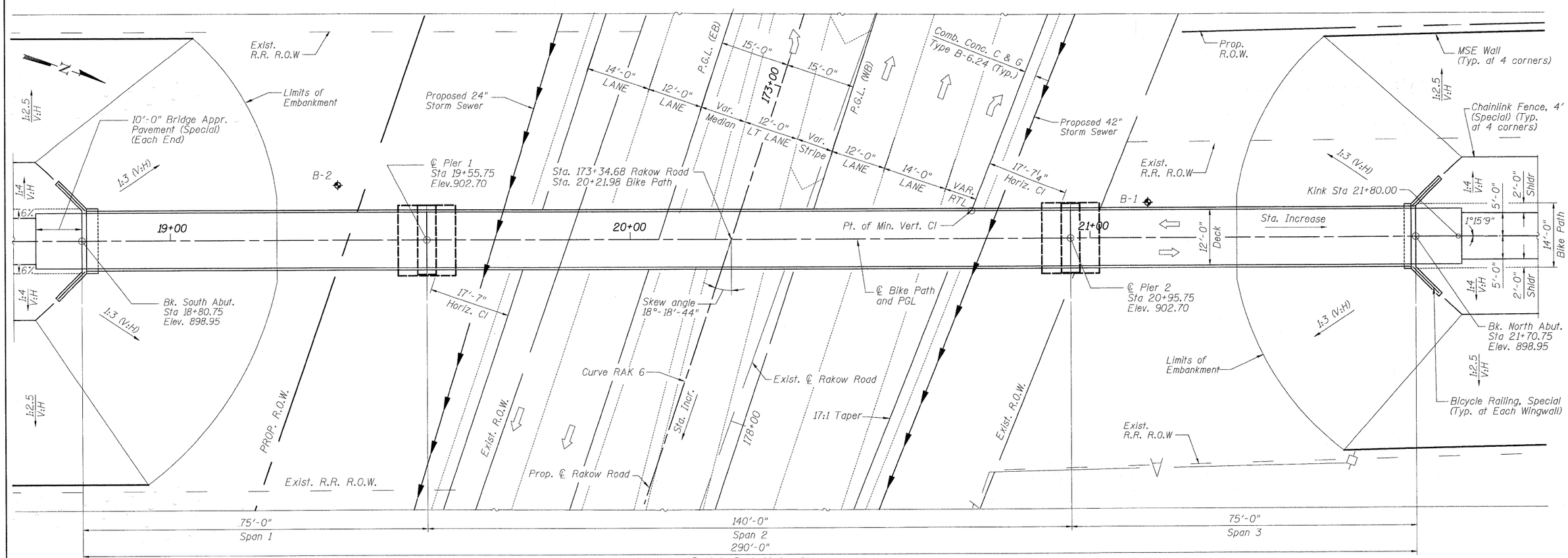
Benchmark: Rebar at Signal Foundation, Sta. 170+28.13, 34.11' RT, EL = 884.69.
Existing Structure: None

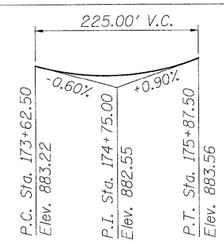




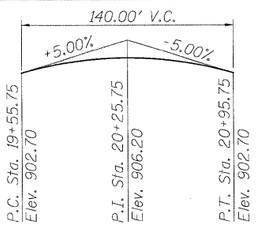
PLAN

LEGEND

- Soil Boring
- Prop. Storm Sewer
- A — Aerial Electrical Line



PROFILE GRADE
(along P.G. Rakow Road)



PROFILE GRADE
(along P.G. Bike Path)

CURVE RAK 6

PI STA. = 171+58.29
Δ = 3° 47' 46" (RT)
D = 0° 34' 23"
R = 10,000.00'
T = 331.40'
L = 662.55'
E = 5.49'
e = NC
P.C. STA. = 168+26.89
P.T. STA. = 174+89.45

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

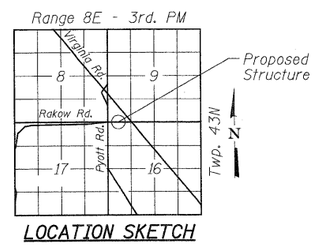
H10 Service Vehicle or Pedestrian Live Load
Design Wind Velocity = 90 miles per hour

DESIGN STRESSES

f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi M270 Grade 50W (Structural Steel)
Allowable Soil Bearing = 6,500 psf (Pier Ftg.)

SEISMIC DATA

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



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

PATRICK ENGINEERING INC. LISLE, ILLINOIS	USER NAME = ayargicoglu(Rdwy_Lisle)	DESIGNED - A. YARGICOGLU	REVISED -	
	PLOT CONFIG= PDF(Grey_Large).plt	DRAWN - A. YARGICOGLU	REVISED -	
	PLOT SCALE = 1:10.6667	CHECKED - A. DURBAK	REVISED -	
	PLOT DATE = 7/29/2010	DATE - 8/2/2010	REVISED -	

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
PEDESTRIAN BRIDGE OVER RAKOW ROAD
STA 173+34.68 STRUCTURE NO. 056-9921

SCALE: NONE | SHEET NO. STR 1 OF 22 | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	403
		CONTRACT NO. 63398		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Q:\MCDOT\20950.201\Drawings\STRUCT\FinalPlans\S01 Bridge General Plan.dgn