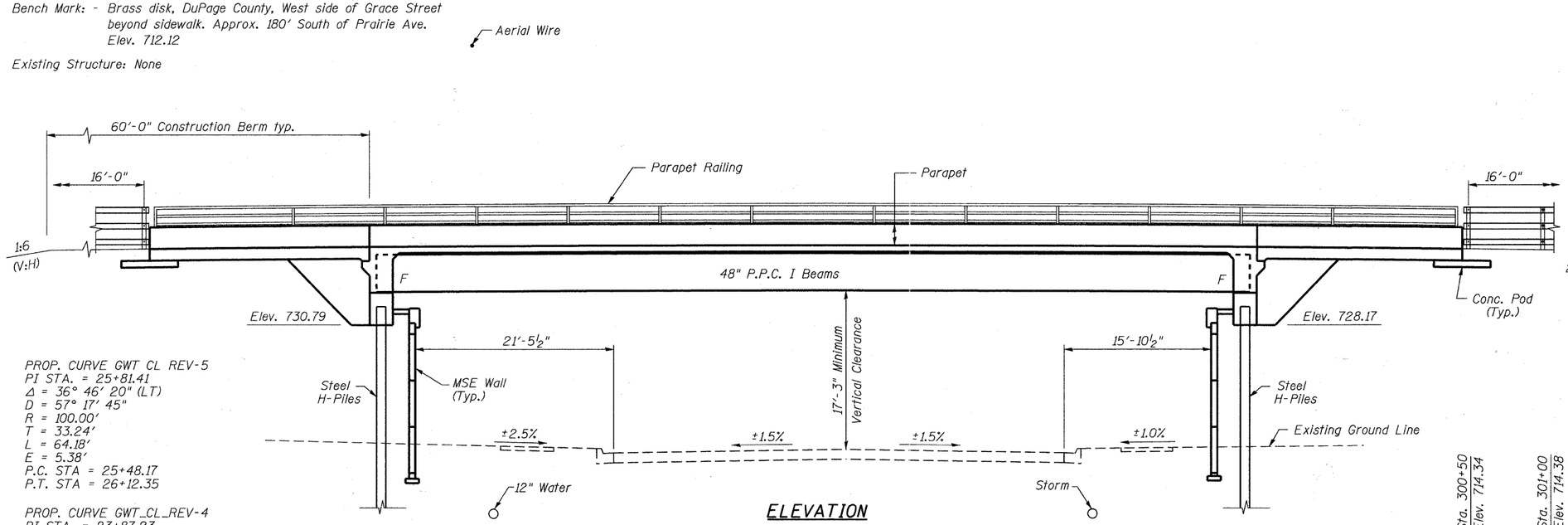
Bench Mark: - Brass disk, DuPage County, West side of Grace Street beyond sidewalk. Approx. 180' South of Prairie Ave. Elev. 712.12

Existing Structure: None

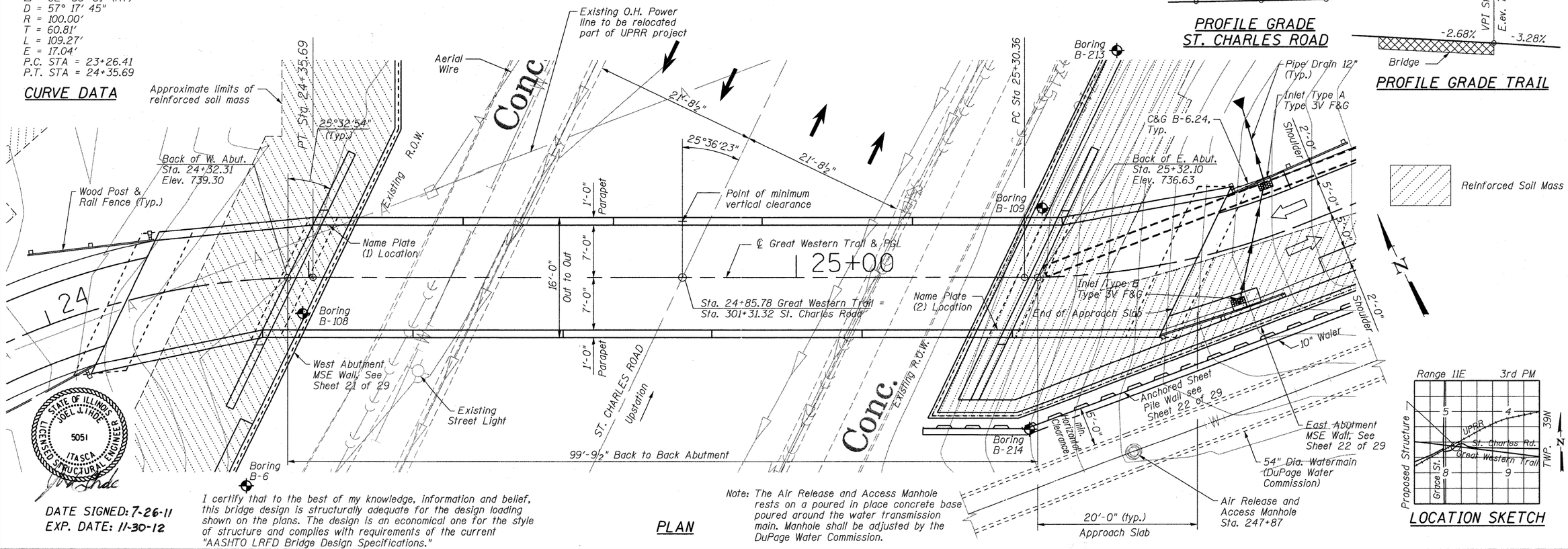
PROP. CURVE GWT CL REV-5
PI STA. = 25+81.41
Δ = 36° 46' 20" (LT)
D = 57° 17' 45"
R = 100.00'
T = 33.24'
L = 64.18'
E = 5.38'
P.C. STA = 25+48.17
P.T. STA = 26+12.35

PROP. CURVE GWT_CL_REV-4
PI STA. = 23+87.23
Δ = 62° 36' 31" (RT)
D = 57° 17' 45"
R = 100.00'
T = 60.81'
L = 109.27'
E = 17.04'
P.C. STA = 23+26.41
P.T. STA = 24+35.69

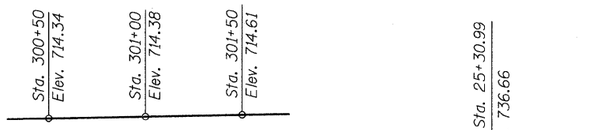
CURVE DATA



ELEVATION



PLAN



PROFILE GRADE ST. CHARLES ROAD

PROFILE GRADE TRAIL

LOCATION SKETCH

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2" ϕ low lax. strands)
fpbt = 201,960 psi (1/2" ϕ low lax. strands)
f'c = 4,500 psi (Precast Panels)

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims

2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges

LOADING H20

Pedestrian Live Load 90#/sq. ft.
Allow 25#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.087
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.154
Soil Site Class = D

STATE OF ILLINOIS JOEL J. THOE 5051 ITASCA LICENSED STRUCTURAL ENGINEER

DATE SIGNED: 7-26-11
EXP. DATE: 11-30-12

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 LRFD Bridge Design Specifications."

Note: The Air Release and Access Manhole rests on a poured in place concrete base poured around the water transmission main. Manhole shall be adjusted by the DuPage Water Commission.

FILE NAME =

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

USER NAME =	DESIGNED SRT	REVISED -
	CHECKED JJI	REVISED -
PLOT SCALE =	DRAWN GM	REVISED -
PLOT DATE =	CHECKED JJI	REVISED -

STATE OF ILLINOIS
GREAT WESTERN TRAIL
ST. CHARLES ROAD

GENERAL PLAN
STRUCTURE NUMBER 022-3121
SHEET NO. 1 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	118
		CONTRACT NO. 63568		
	ILLINOIS FED. AID PROJECT			