Benchmark: BM ASC220 Square cut on southeast corner of NB IL 394 bridge over I-80. Elev. = 184.942

Existing Structure: None

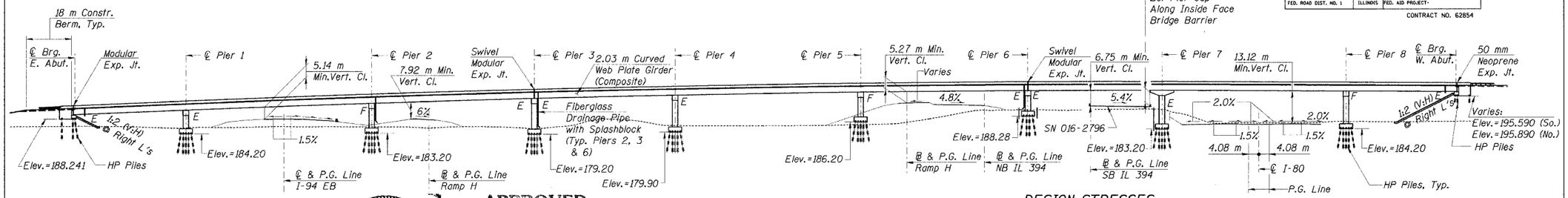
All dimensions are in millimeters (mm) except as noted.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	0203.1B	COOK	200	62
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
91 SHEETS

CONTRACT NO. 62854



ELEVATION

*Taper starts at Sta. 120+298.00 with 1.8 m (Lt. Shldr), 2.4 m (Rt. Shldr.) Taper ends at Sta. 120+315.00 with 2.4 m (Lt. Shldr), 1.8 m (Rt. Shldr.)

**Taper starts at Sta. 20+911.00 with 0 m (3rd Lane), 3.6 m (Rt. Shldr.) Taper ends at Sta. 20+940.00 with 3.6 m (3rd Lane), 2.4 m (Rt. Shldr.)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson 7/20
ENGINEER OF BRIDGES AND STRUCTURES

PHILIP C. AZZARELLO 081-004245 CHICAGO, ILLINOIS LICENSED STRUCTURAL ENGINEER

Philip C. Azzarello 3-25-05

Philip C. Azzarello, S.E.
Ill. Reg. No. 081-004245
Expires 11-30-06

STAGING

The traffic patterns shown on this sheet will vary throughout the contract time. See Sheet No. 4 of 91 for additional details.

LOADING MS18 & ALT.

Allow 2.4 kN/m² for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO

2003 AASHTO Guide Specifications for Horizontally Curved Steel Girder Highway Bridges

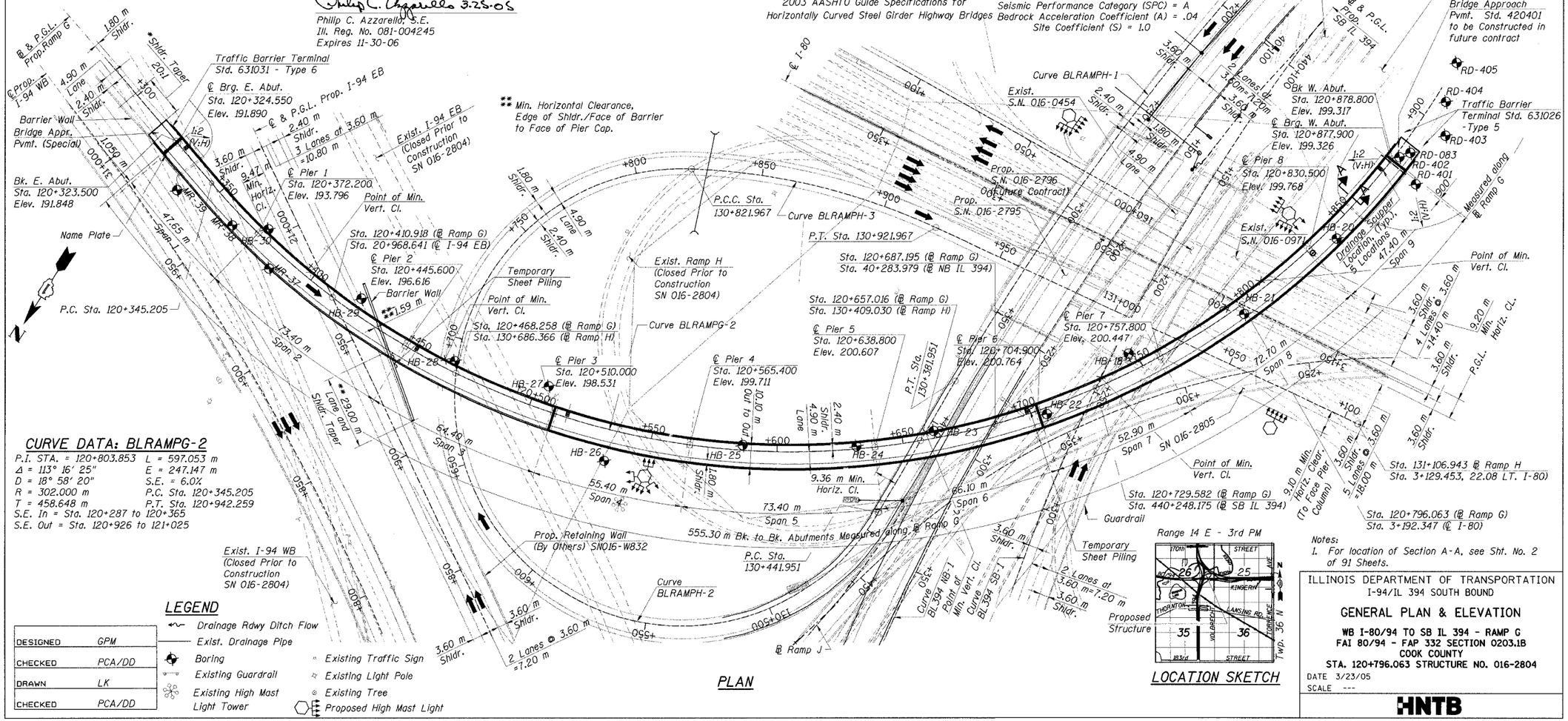
DESIGN STRESSES

FIELD UNITS

f'_c = 24 MPa
f_y = 400 MPa (reinforcement)
f_y = 345 MPa (structural steel) (M270M Grade 345)
f_y = 250 MPa (structural steel) (M270M Grade 250)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = .04
Site Coefficient (S) = 1.0



CURVE DATA: BLRAMPG-2

P.I. STA. = 120+803.853
Δ = 113° 16′ 25″
D = 18° 58′ 20″
R = 302.000 m
T = 458.648 m
S.E. In = Sta. 120+287 to 120+365
S.E. Out = Sta. 120+926 to 121+025
L = 597.053 m
E = 247.147 m
S.E. = 6.0%
P.C. Sta. 120+345.205
P.T. Sta. 120+942.259

LEGEND

- Drainage Rdwy Ditch Flow
- Exist. Drainage Pipe
- Boring
- Existing Guardrail
- Existing High Mast Light Tower
- Existing Traffic Sign
- Existing Light Pole
- Existing Tree
- Proposed High Mast Light

PLAN

LOCATION SKETCH

DESIGNED	GPM
CHECKED	PCA/DD
DRAWN	LK
CHECKED	PCA/DD

JKim
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25-MAR-2005 09:04

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94/IL 394 SOUTH BOUND

GENERAL PLAN & ELEVATION

WB I-80/94 TO SB IL 394 - RAMP G
FAI 80/94 - FAP 332 SECTION 0203.1B
COOK COUNTY
STA. 120+796.063 STRUCTURE NO. 016-2804

DATE 3/23/05
SCALE ---

HNTB