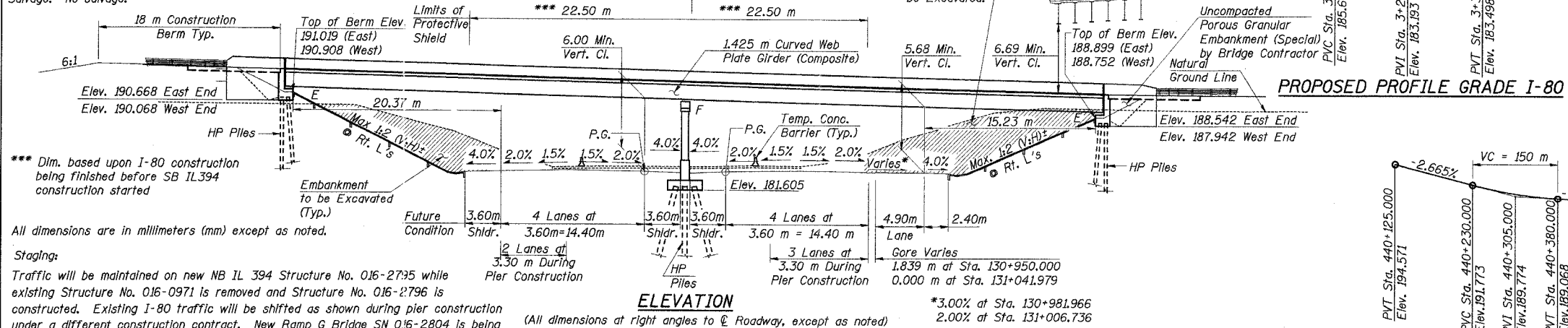


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Benchmark: BM ASC220 Square cut on southeast corner of NB IL 394 bridge over I-80. Elev. = 184.942
 Existing Structure: S.N. 016-0971, four-span continuous 58.26 m Bk. to Bk. abutments, 15.60 m O. to O. R.C. deck supported by W760 steel stringers. Built as F.A. Route 122, Sec. 066-0303.6A-MFT at Station 32+47.94 (English) in 1952. Deck was rehabilitated in 1995.
 Salvage: No salvage.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F. A. I. 80/94		COOK	870	443	29 SHEETS
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62108		



LOADING MS18
 Allow 2.4 kN/m² for future wearing surface.
DESIGN SPECIFICATIONS
 2002 AASHTO
 2003 AASHTO Guide Specifications for Horizontally Curved Steel Girders Highway Bridges

DESIGN STRESSES
 FIELD UNITS
 f_c = 24 MPa
 f_y = 400 MPa (reinforcement)
 f_y = 345 MPa (structural steel) (M270 Grade 345)
 f_y = 250 MPa (structural steel) (M270 Grade 250)

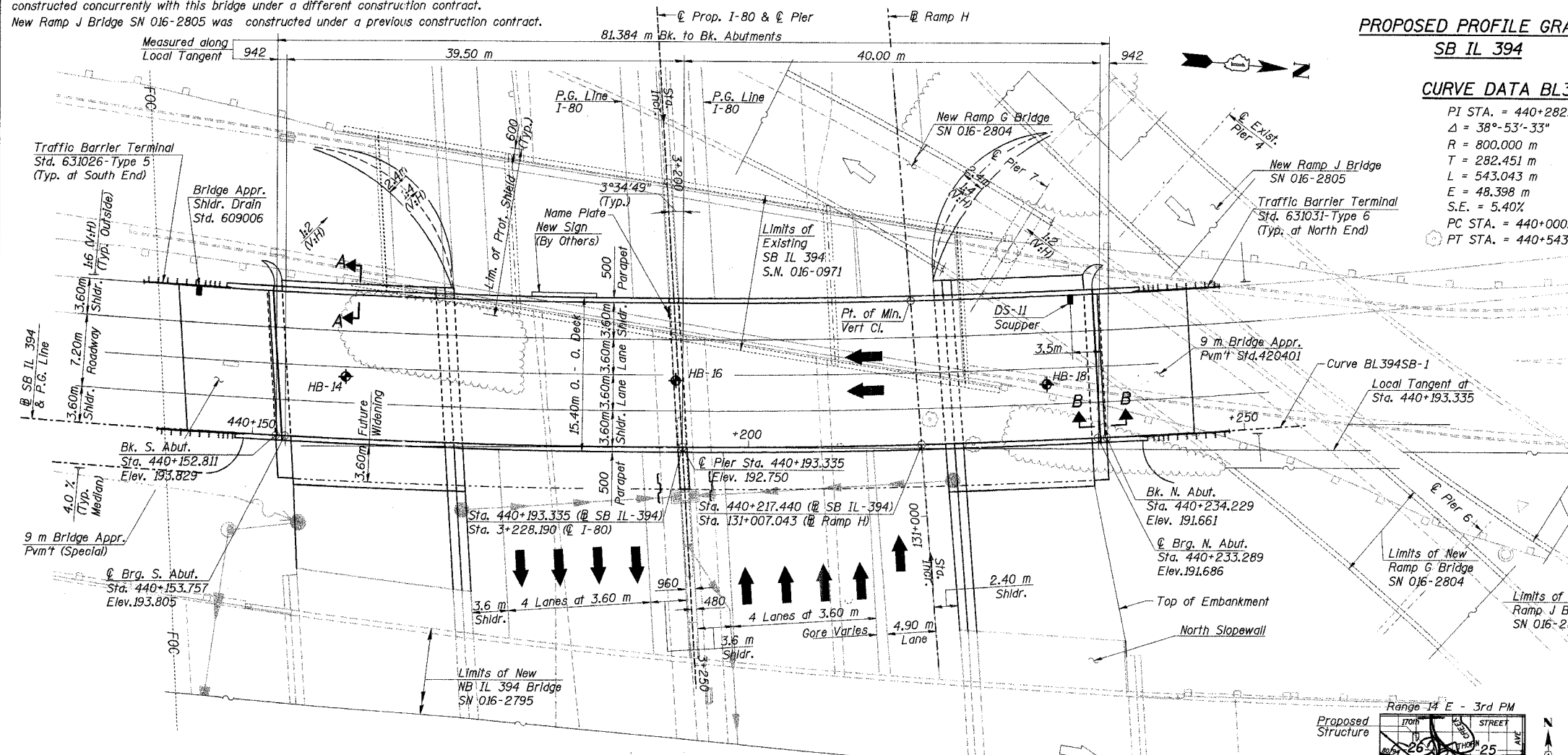
SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = .04
 Site Coefficient (S) = 1.0

- LEGEND**
- ◆ Boring
 - Exist. Guardrail
 - Exist. Tree
 - ▨ Embankment Excavation
 - F06- Exist. Fiber Optic Cable
 - Exist. Sewer **
 - ⊙ Exist. Manhole **
 - ⊠ Exist. Inlet **
 - Proposed Sewer
 - Proposed Inlet
 - Proposed Catch Basin
- ** Existing Drainage to be abandoned

PROPOSED PROFILE GRADE
SB IL 394

CURVE DATA BL394SB-1

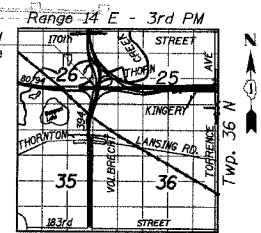
PI STA. = 440+282.451
Δ = 38°-53'-33"
R = 800,000 m
T = 282.451 m
L = 543.043 m
E = 48.398 m
S.E. = 5.40%
PC STA. = 440+000.000
PT STA. = 440+543.043



*** Dlm. based upon I-80 construction being finished before SB IL394 construction started
 All dimensions are in millimeters (mm) except as noted.
Staging:
 Traffic will be maintained on new NB IL 394 Structure No. 016-2735 while existing Structure No. 016-0971 is removed and Structure No. 016-2796 is constructed. Existing I-80 traffic will be shifted as shown during pier construction under a different construction contract. New Ramp G Bridge SN 016-2804 is being constructed concurrently with this bridge under a different construction contract. New Ramp J Bridge SN 016-2805 was constructed under a previous construction contract.

DESIGNED	JJK
CHECKED	PCA/DD
DRAWN	LK
CHECKED	MAS

PLAN
 (Existing I-80 Traffic Configuration Not Shown)



NOTES:
 1. For Section A-A & B-B see Sht. No. 2 of 29.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-94 EAST BOUND / IL 394 SOUTH BOUND
GENERAL PLAN & ELEVATION
 SB ILLINOIS ROUTE 394 OVER INTERSTATE 80
 F.A.P. 332 SECTION (0203.1 & 0312-708W) R-3
 COOK COUNTY
 STA. 440+193.335 STRUCTURE NO. 016-2796
 DATE 07/18/05
 SCALE -----



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
 Ralph E. Anderson (TIT)
 ENGINEER OF BRIDGES AND STRUCTURES
 STATE OF ILLINOIS
 PHILIP C. AZZARELLO
 081-004245
 CHICAGO, ILLINOIS
 LICENSED STRUCTURAL ENGINEER
 Phillip C. Azzarello, S.E.
 Ill. Reg. No. 081-004245
 Expires 11-30-06

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