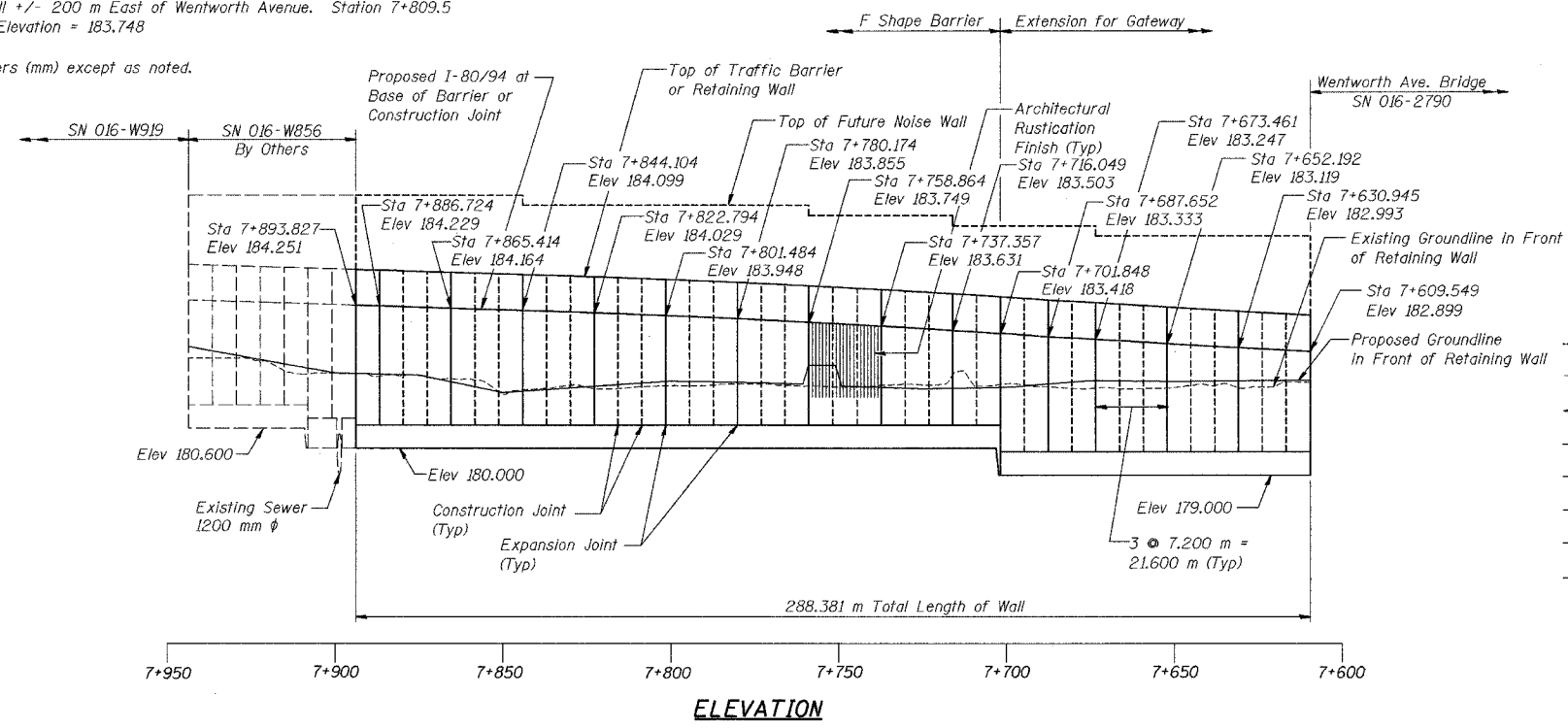


Benchmark: Chiseled box on South face of metal base of Light Pole #AC12 on center of Jersey Wall +/- 200 m East of Wentworth Avenue. Station 7+809.5
 Offset 0.0 Elevation = 183.748
 Existing Structure: None
 All dimensions in millimeters (mm) except as noted.

ROUTE NO.	SECTION	COUNTY	SHEET	DATE	SHEET NO. S-1
2126.2-R-1		COOK	452	146	20 SHEETS
CONTRACT NO. 62113 INDOT DES. NO. 0100987					



- LEGEND**
- ⊕ - Soil Boring Location
 - - Existing Roadway/Structure
 - - Proposed Roadway/Structure
 - ⊙ - Tree
 - ~ - Shrubs/Brush
 - - Proposed Storm Sewer
 - - Existing Sanitary Sewer
 - - Existing Storm Sewer
 - CTV— - Existing Cable TV
 - E— - Existing Electricity Line
 - T— - Existing Telephone Line
 - A— - Electrical Aerial Cable
 - ~ - Temporary Sheet Piling

LOADING
 Wind Load on Future Noise Wall = 1.7 kPa

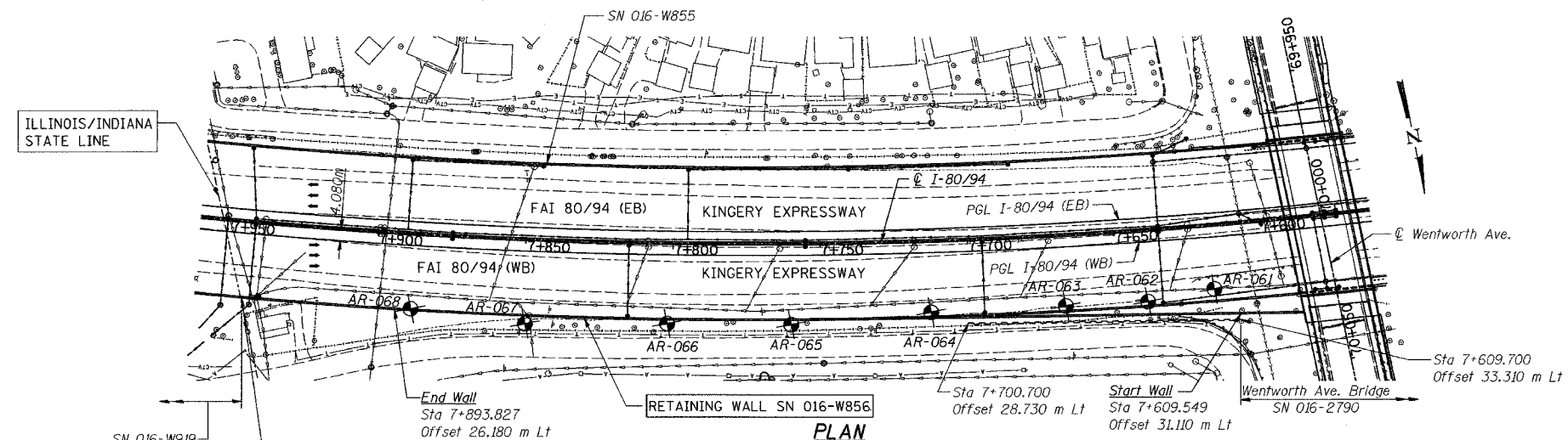
DESIGN STRESSES
FIELD UNITS
 $f'_c = 24 \text{ MPa}$
 $f_y = 400 \text{ MPa (Reinf.)}$
 Maximum Applied Soil Bearing Pressure = 135 kPa

DESIGN SPECIFICATIONS
 AASHTO 2002 Standard Specifications for Highway Bridges
 AASHTO 1989 Guide Specifications for Structural Design of Sound Barriers and 1992 Interims

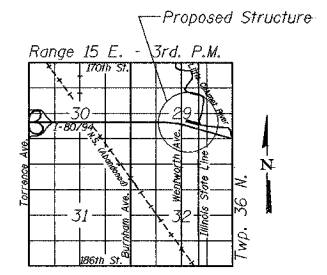
APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES



Amy J. Powell
 GARY S. POWELL, S.E.
 IL. LIC. NO. 081-004771
 EXP 11-30-2004
 DATE 9-14-2004

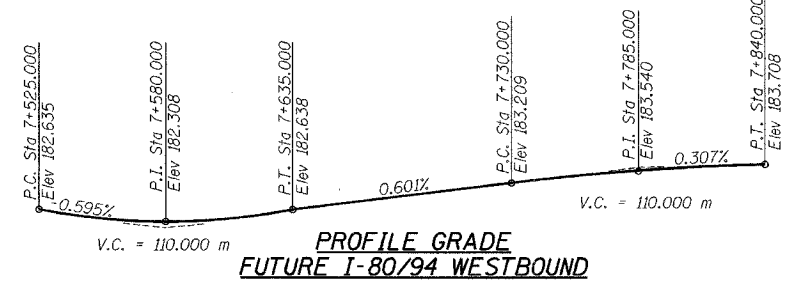


PLAN
 Note: Retaining Wall is built in straight line segments between Expansion and Construction Joints. Back Face of the Retaining Wall is aligned with the outside edge of shoulder at joints.



LOCATION SKETCH

DESIGNED	MJW
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP



PROFILE GRADE
FUTURE I-80/94 WESTBOUND

CURVE DATA I-80/94

$\Delta = 20^\circ - 11' - 25''$
 $R = 1,923.600 \text{ m}$
 $T = 342.476 \text{ m}$
 $L = 677.849 \text{ m}$
 $E = 30.249 \text{ m}$
 $P.C. Sta = 7+380.276$
 $P.L. Sta = 7+722.751$
 $P.T. Sta = 8+058.125$
 $S.E. = 2.9\%$

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41

GENERAL PLAN
SECTION 2626.2-R-1
COOK COUNTY
STATION 7+609.549 TO STATION 7+893.827
STRUCTURE NO. 016-W856
 DATE 07/04

AMERICAN
 CONSULTING ENGINEERS