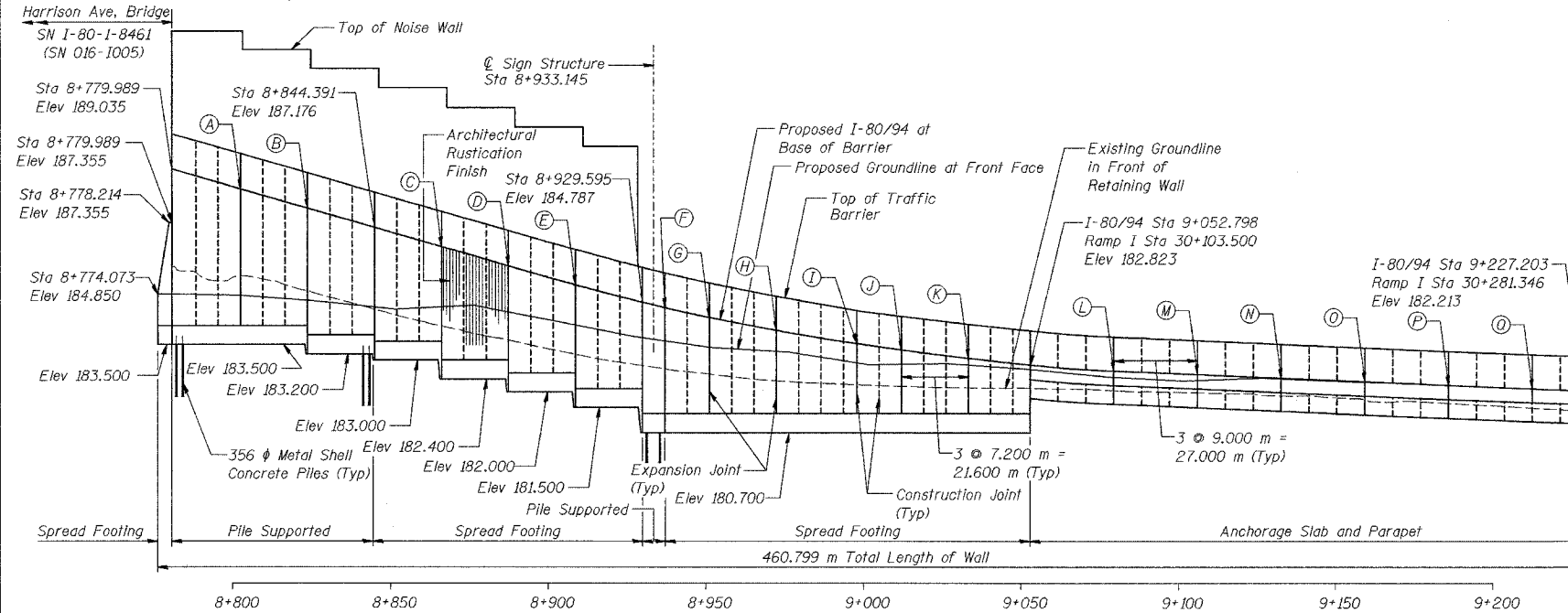


Benchmark: Chiseled box on Northeast corner of Northeast Wingwall over Little Calumet River  
 Bridge Westbound I-80 mile marker 0.4. Elevation = 191.662  
 Existing Structure: Remove Existing Mechanically Stabilized Earth Wall  
 All dimensions in millimeters (mm) except as noted.



Station	Elevation
A 8+801.789	188.412
B 8+823.091	187.794
C 8+865.692	186.558
D 8+886.993	185.940
E 8+908.294	185.335
F 8+936.695	184.617
G 8+950.895	184.311
H 8+972.197	183.896
I 8+997.775	183.491
J 9+011.969	183.290
K 9+033.244	183.029
L 9+079.330	182.656
M 9+105.815	182.544
N 9+132.272	182.427
O 9+158.706	182.310
P 9+185.118	182.304
Q 9+211.506	182.284

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
1207	2626.2-R-2	LAKE COUNTY, INDIANA	1207	917

CONTRACT NO. 62114 INDOT DES. NO. 0100987

**LOADING**

Wind Load on Noise Wall = 1.7 kPa

**DESIGN STRESSES**

FIELD UNITS

f'c = 24 MPa

fy = 400 MPa (Reinf.)

Maximum Applied Soil Bearing Pressure = 140 kPa

**DESIGN SPECIFICATIONS**

AASHTO 2002 Standard Specifications for Highway Bridges

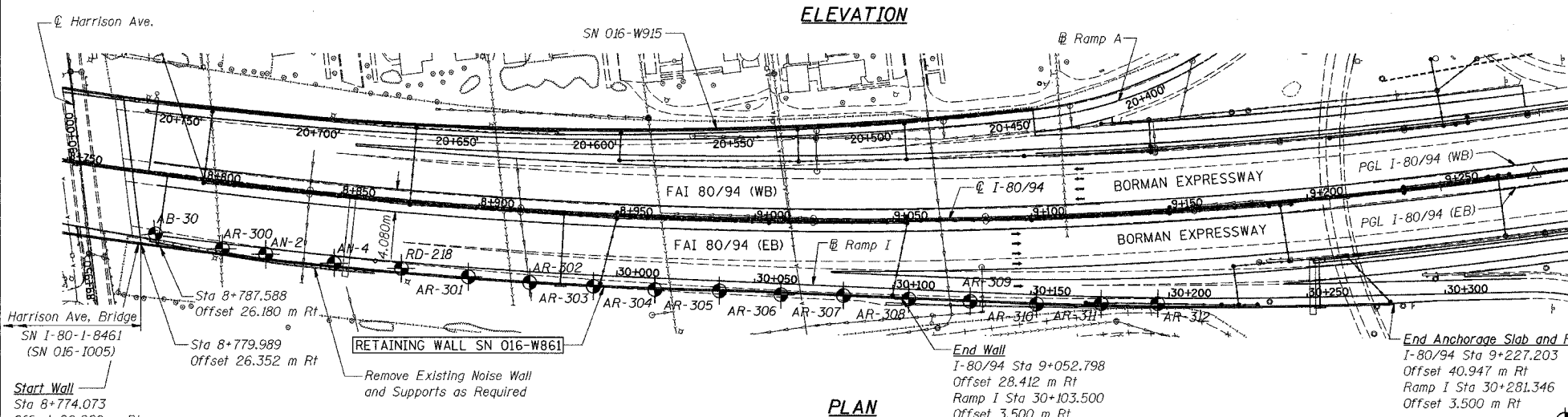
AASHTO 1989 Guide Specifications for Structural Design of Sound Barriers and 1992 Interims

**CURVE DATA I-80/94**

Δ = 20°-51'-41"  
 R = 1,864.600 m  
 T = 343.250 m  
 L = 678.899 m  
 E = 31.331 m  
 P.C. Sta = 8+603.684  
 P.I. Sta = 8+946.934  
 P.T. Sta = 9+282.583  
 S.E. = 3.0 %

**CURVE DATA RAMP I**

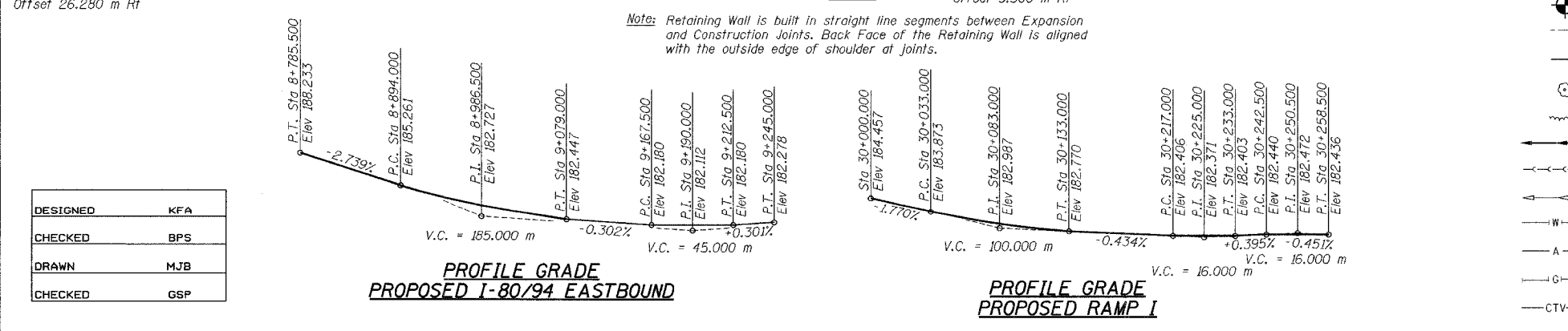
Δ = 3°-52'-42"  
 R = 1,649.000 m  
 T = 55.833 m  
 L = 111.623 m  
 E = 0.945 m  
 P.C. Sta = 30+143.900  
 P.I. Sta = 30+199.733  
 P.T. Sta = 30+255.523  
 S.E. = 2.0 %



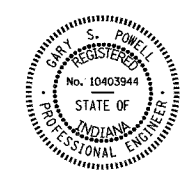
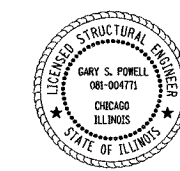
**ELEVATION**

**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.



DESIGNED	KFA
CHECKED	BPS
DRAWN	MJB
CHECKED	GSP



Gary S. Powell  
 GARY S. POWELL, S.E.  
 IL. LIC. NO. 081-004771  
 EXP 11-30-2006  
 DATE 09-12-2005

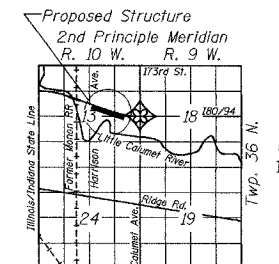
Gary S. Powell  
 GARY S. POWELL, P.E.  
 IN. LIC. NO. 10403944  
 EXP 07-31-2006  
 DATE 09-12-2005

**APPROVED**  
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Adams  
 ENGINEER OF BRIDGES AND STRUCTURES

**LEGEND**

- - Soil Boring Location
- - Existing Roadway/Structure
- - Proposed Roadway/Structure
- - Tree
- - Shrubs/Brush
- - Proposed Storm Sewer
- - Existing Sanitary Sewer
- - Existing Storm Sewer
- - Existing Water Main
- - Electrical Aerial Cable
- - Existing Gas Line
- - Existing Cable TV



**LOCATION SKETCH**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**GENERAL PLAN**  
 SECTION 2626.2-R-2  
 LAKE COUNTY, INDIANA  
 STATION 8+774.073 TO STATION 9+227.203  
 STRUCTURE NO. 016-W861  
 DATE 09/05  
**AMERICAN**  
 CONSULTING ENGINEERS