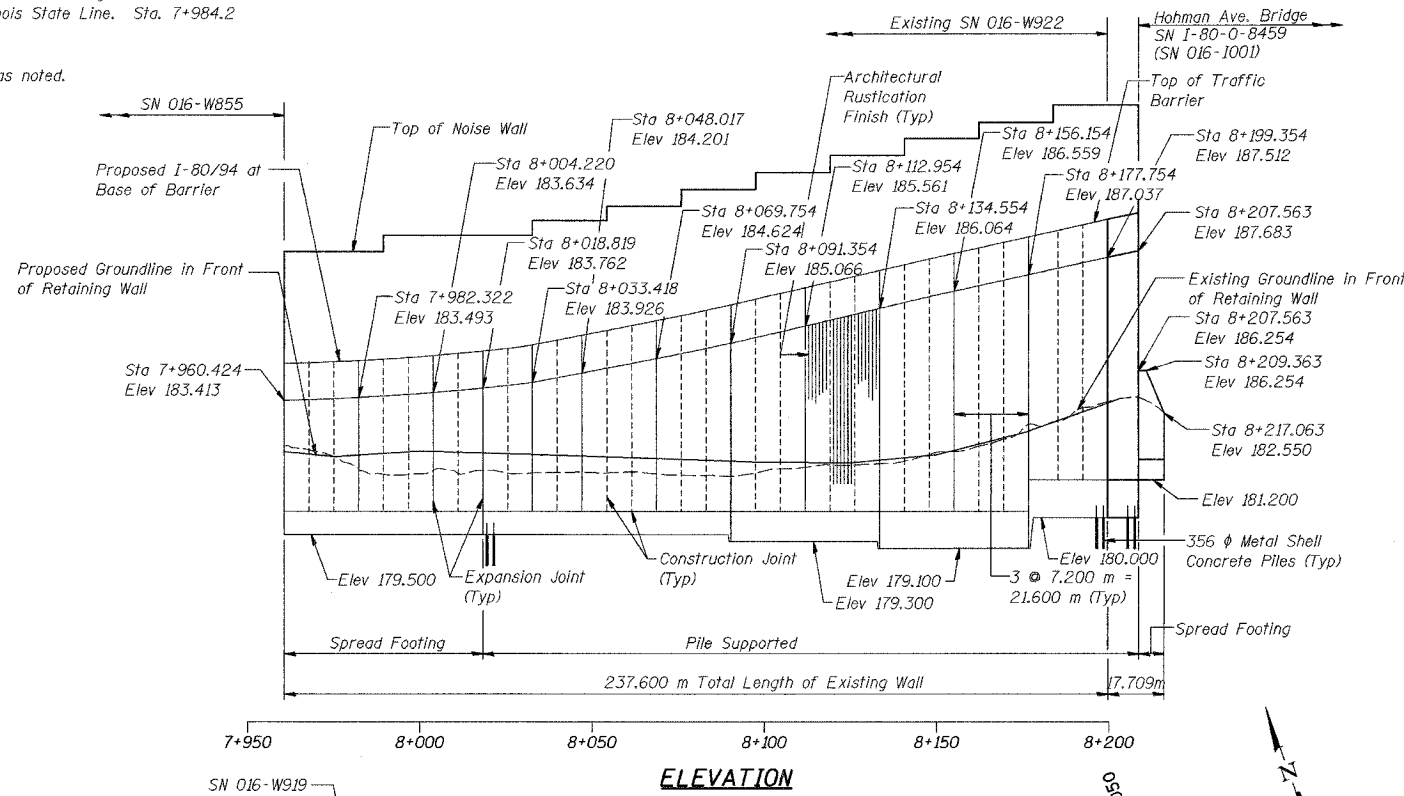


Benchmark: Chiseled box on Northeast corner of concrete Retaining Wall foundation on South side of I-80 +/- 50M East of Illinois State Line. Sta. 7+984.2
 Offset 22.2 Rt. Elevation = 182.386
 Existing Structure: None
 All dimensions in millimeters (mm) except as noted.

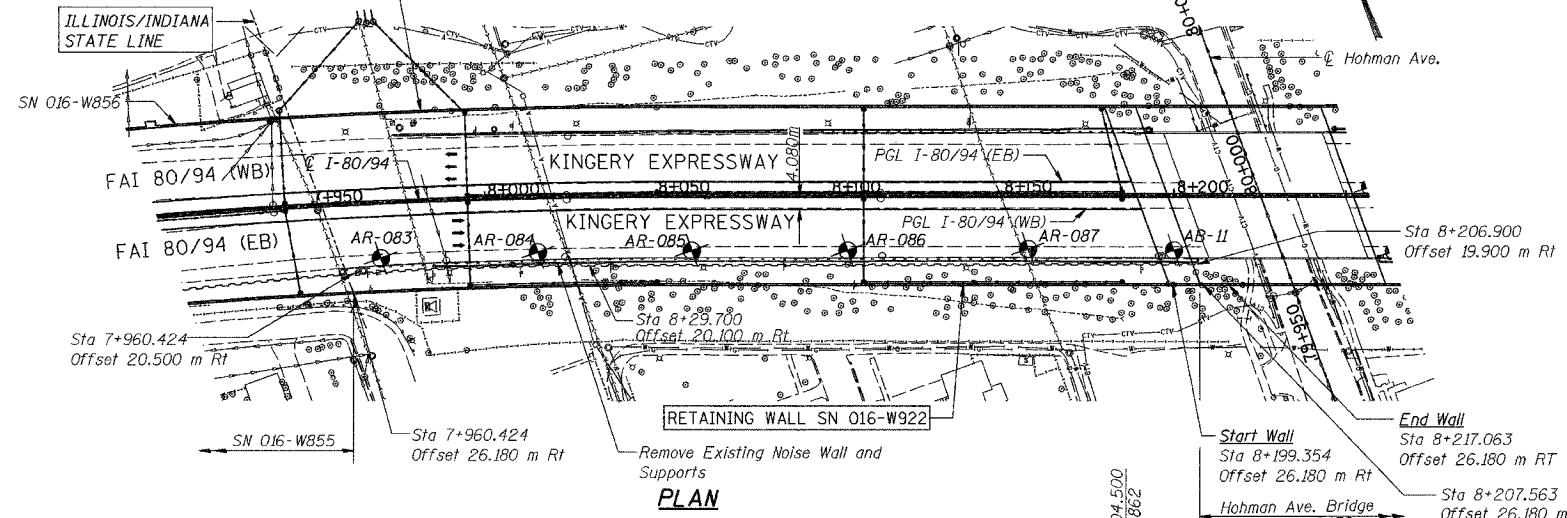
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. S-1
88/94	2626.2-R-1	LAKE COUNTY, INDIANA	1207	1063
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



LOADING
 Wind Load on Future Noise Wall = 1.7 kPa

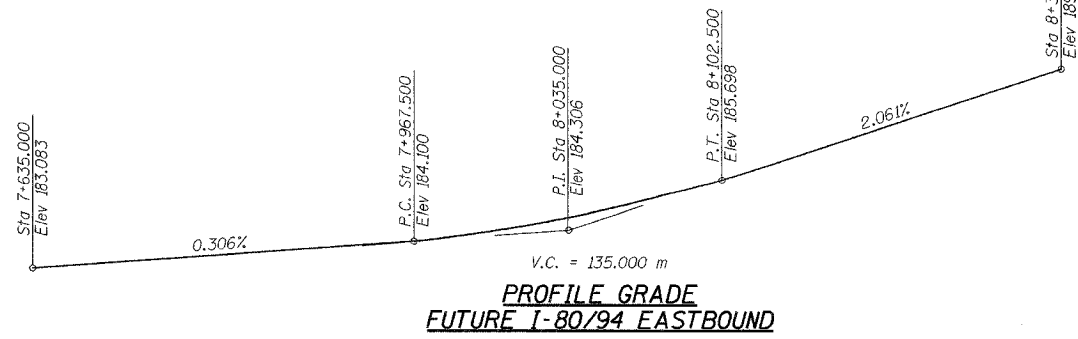
DESIGN STRESSES
 FIELD UNITS
 $f'_c = 24 \text{ MPa}$
 $f_y = 400 \text{ MPa (Reinf.)}$
 Maximum Applied Soil Bearing Pressure = 170 kPa (Phase 2)
 95 kPa (Phase 3)

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



- 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
 - - - Existing Gas Line
 - - - Existing Water Main
 - - - Electrical Aerial Cable
 - - - Temporary Sheet Piling

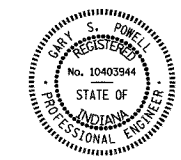
DESIGNED	KFA
CHECKED	BPS
DRAWN	MJB
CHECKED	GSP



CURVE DATA I-80/94

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

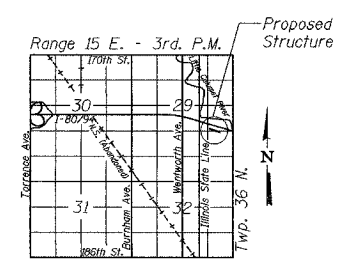
Note: Retaining Wall is built in straight line segments between Expansion and Construction Joints. Back Face of the Retaining Wall is aligned with the outside edge of shoulder at joints.



Gary S. Powell
 GARY S. POWELL, S.E.
 IL. LIC. NO. 081-00471
 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



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

GENERAL PLAN
 SECTION 2626.2-R-1
 LAKE COUNTY, INDIANA
 STATION 8+199.354 TO STATION 8+215.315
 STRUCTURE NO. 016-W922
 DATE 09/05

AMERICAN
 CONSULTING ENGINEERS