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

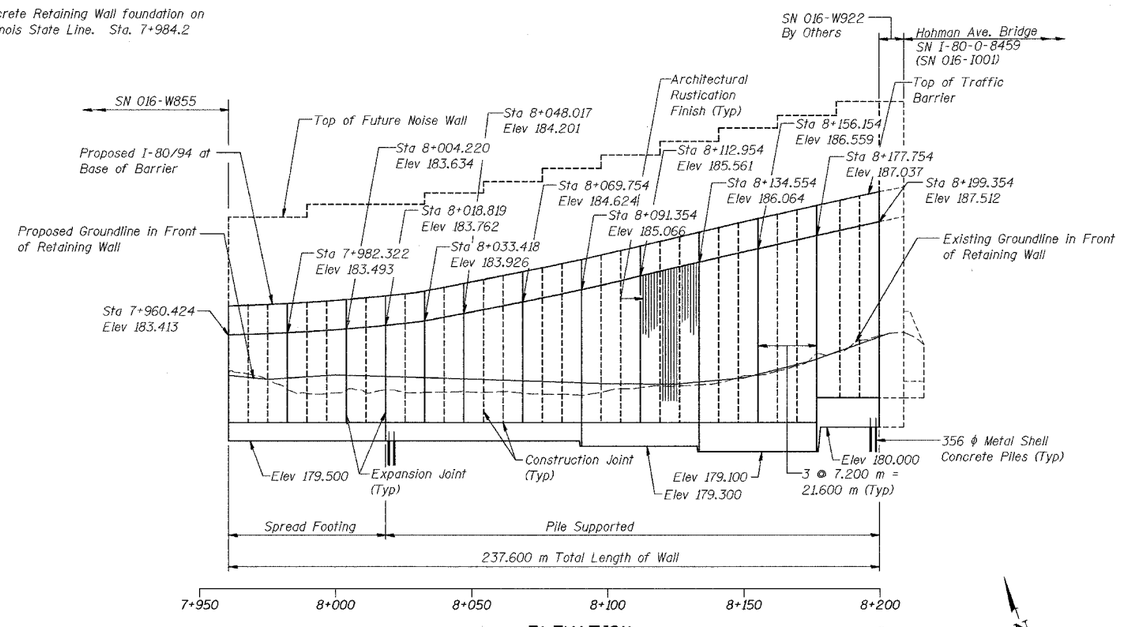
All dimensions in millimeters (mm) except as noted.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80/94	2626.2-R-1	LAKE COUNTY, INDIANA	452	177
		ILLINOIS	FED. AID PROJECT-	

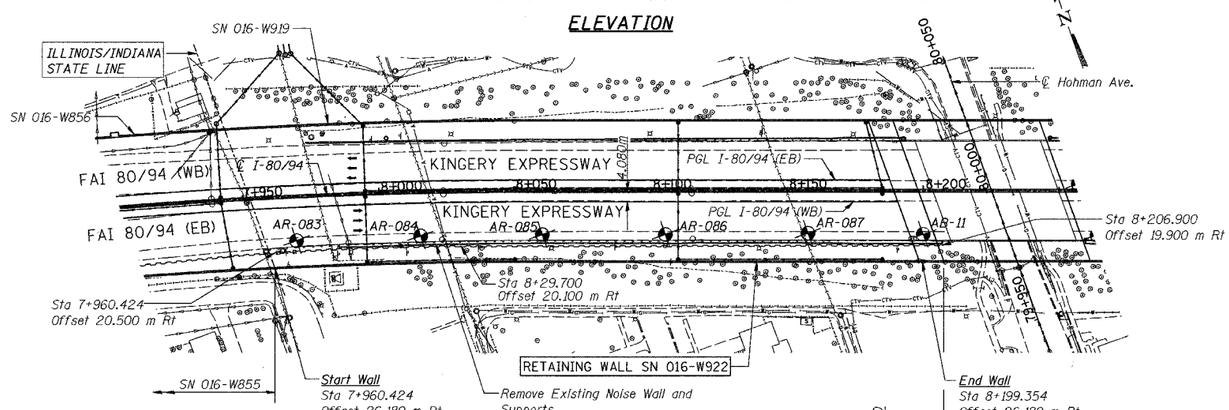
SHEET NO. S-1

19 SHEETS

CONTRACT NO. 62113 INDOT DES. NO. 0100987



ELEVATION

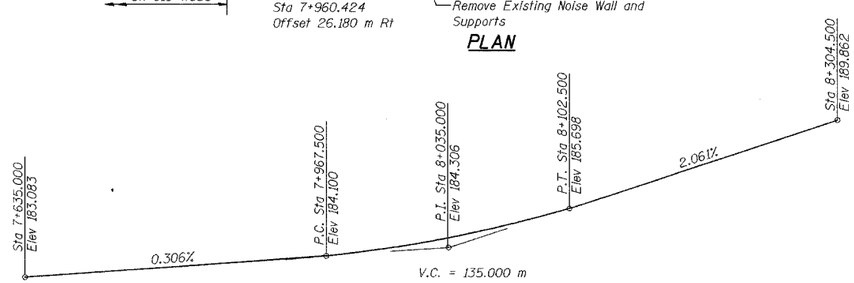


PLAN

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
- G — Existing Gas Line
- W — Existing Water Main
- A — Electrical Aerial Cable
- Temporary Sheet Piling

DESIGNED	MJW
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP



PROFILE GRADE
FUTURE I-80/94 EASTBOUND

LOADING

Wind Load on Future Noise Wall = 1.7 kPa

DESIGN STRESSES

FIELD UNITS

f'c = 24 MPa

fy = 400 MPa (Reinf.)

Maximum Applied Soil Bearing Pressure = 170 kPa

DESIGN SPECIFICATIONS

AASHTO 2002 Standard Specifications for Highway Bridges

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

LICENSED STRUCTURAL ENGINEER GARY S. POWELL 081-004771 CHICAGO ILLINOIS STATE OF ILLINOIS

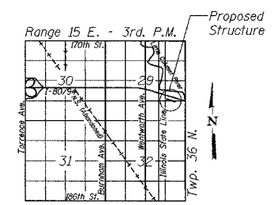
GARY S. POWELL REGISTERED No. 10403944 STATE OF INDIANA PROFESSIONAL ENGINEER

Gary S. Powell
GARY S. POWELL, S.E.
IL. LIC. NO. 081-004771
EXP 11-30-2004
DATE 9-16-2004

Gary S. Powell
GARY S. POWELL, P. E.
IN. LIC. NO. 10403944
EXP 7-31-2006
DATE 9-16-2004

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

CURVE DATA I-80/94

Δ = 20°-11'-25"

R = 1,923.600 m

T = 342.476 m

L = 677.849 m

E = 30.249 m

P.C. Sta = 7+380.276

P.I. Sta = 7+722.751

P.T. 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.

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

GENERAL PLAN
SECTION 2626.2-R-1
LAKE COUNTY, INDIANA
STATION 7+960.424 TO STATION 8+199.354
STRUCTURE NO. 016-W922

DATE 07/04

AMERICAN CONSULTING ENGINEERS