

Bench Mark: Chiseled "□" on S.W. Parapet of E.B.L. I-74 bridge over U.S. Route 150 at Morton, IL. Elevation 749.62.

Existing Structure: S.N. 090-0016, built 1961 as F.A.I. Route 74, Section 90-14. Structure consists of dual parallel corrugated metal plate arches skewed 51°14'00". The center to center distance between arches is 26'-0" and each arch is 20'-7" wide, 16'-10" high and 345'-0" long with approximately 6'-6" of fill depth at the edge of the roadway. Concrete headwalls are located at each end. The contractor shall remove and replace these arches with a single span steel plate girder structure under stage construction. Jefferson Street shall be detoured during construction. I-74 traffic to be maintained with two lanes in each direction utilizing crossovers.

No salvage.

STATION 558+75.28
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.I. RTE. 74
 SEC. 90-[14R;(14HB-4.14,14HVB)BR]
 LOADING HL-93
 STRUCTURE NO. 090-0167

NAME PLATE
 (See Std. 515001)

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
 2010 AASHTO LRFD Bridge Design Specifications with 2010 Interims

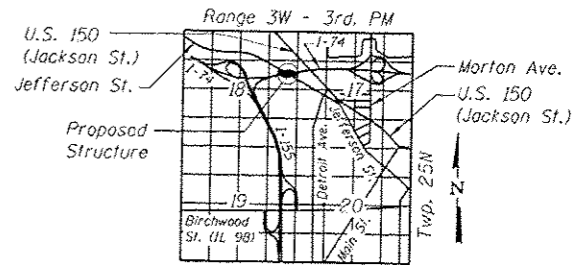
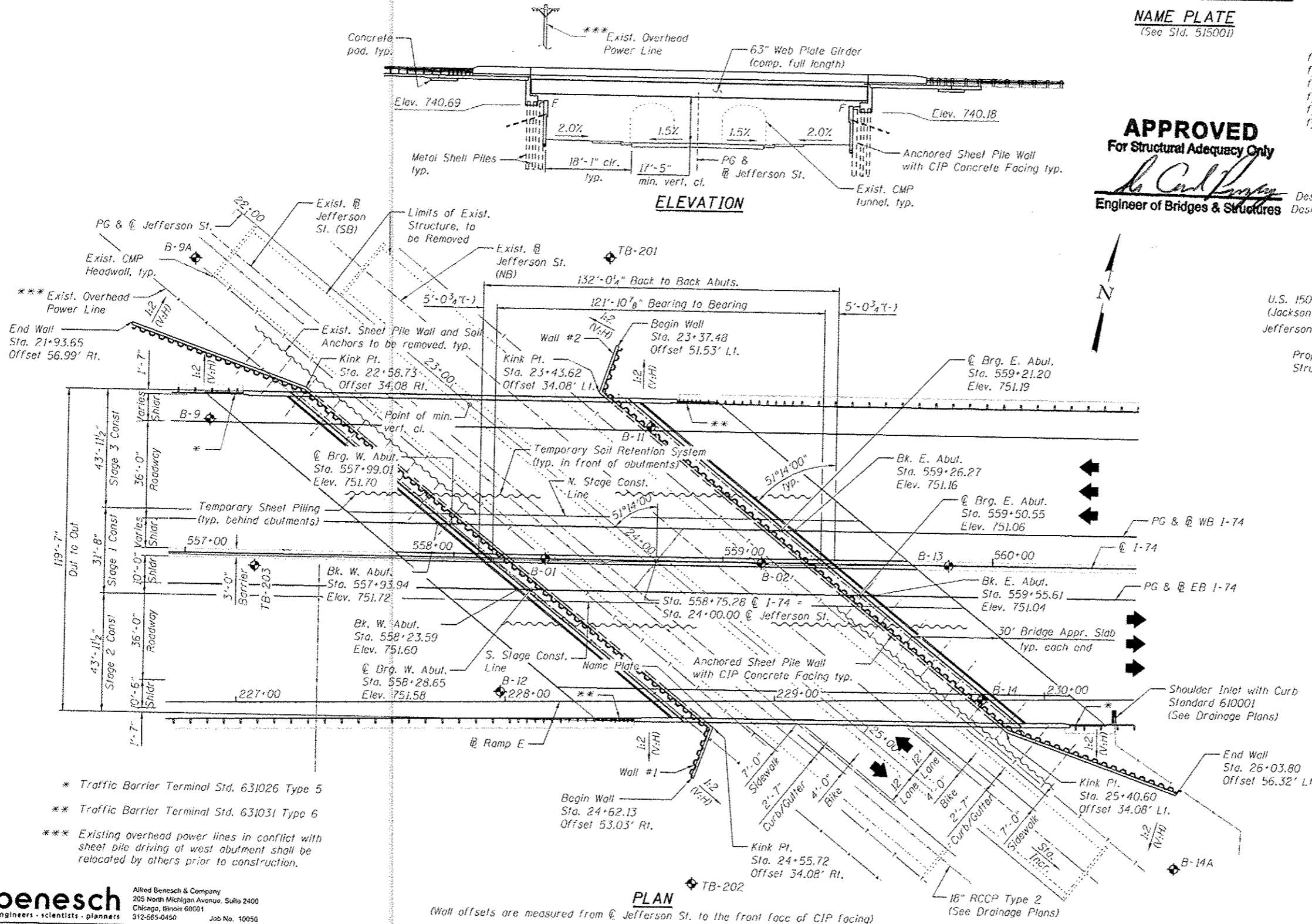
DESIGN STRESSES
 FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (Girders-M270 Grade 36)
 fy = 50,000 psi (Girders-M270 Grade 50)
 fy = 50,000 psi (Permanent Steel Sheet Piles-A572 Grade 50)
 fy = 150,000 psi (Permanent Ground Anchors-A122 Grade 150)

APPROVED
 For Structural Adequacy Only

 Engineer of Bridges & Structures

SEISMIC DATA
 Seismic Performance Zone (SPZ) - I
 Design Spectral Acceleration at 1.0 sec (SD1) = 0.115g
 Design Spectral Acceleration at 0.2 sec (SDS) = 0.183g
 Soil Site Class - D



NOTE:
 B-1 Indicates Soil Boring Location and Number
 All existing utilities that interfere with proposed work shall be relocated.

GENERAL PLAN AND ELEVATION
I-74 OVER JEFFERSON ST.
F.A.I. RTE. 74
SEC. 90-[14R;(14HB-4.14,14HVB)BR]
TAZEWELL COUNTY
STATION 558+75.28
STRUCTURE NO. 090-0167

benesch
 engineers - scientists - planners
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10056

FILE NAME: 0900167_0622P_01.gpe.dgn	USER NAME: mbeckner	DESIGNED: MFB/DTS	REVISIONS:
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 STRUCTURE NO. 090-0167
 SHEET NO. S81 OF S865 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-[14R;(14HB-4.14,14HVB)BR]	TAZEWELL	2433	1912
			CONTRACT NO.	68620
ILLINOIS FED. AID PROJECT				

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