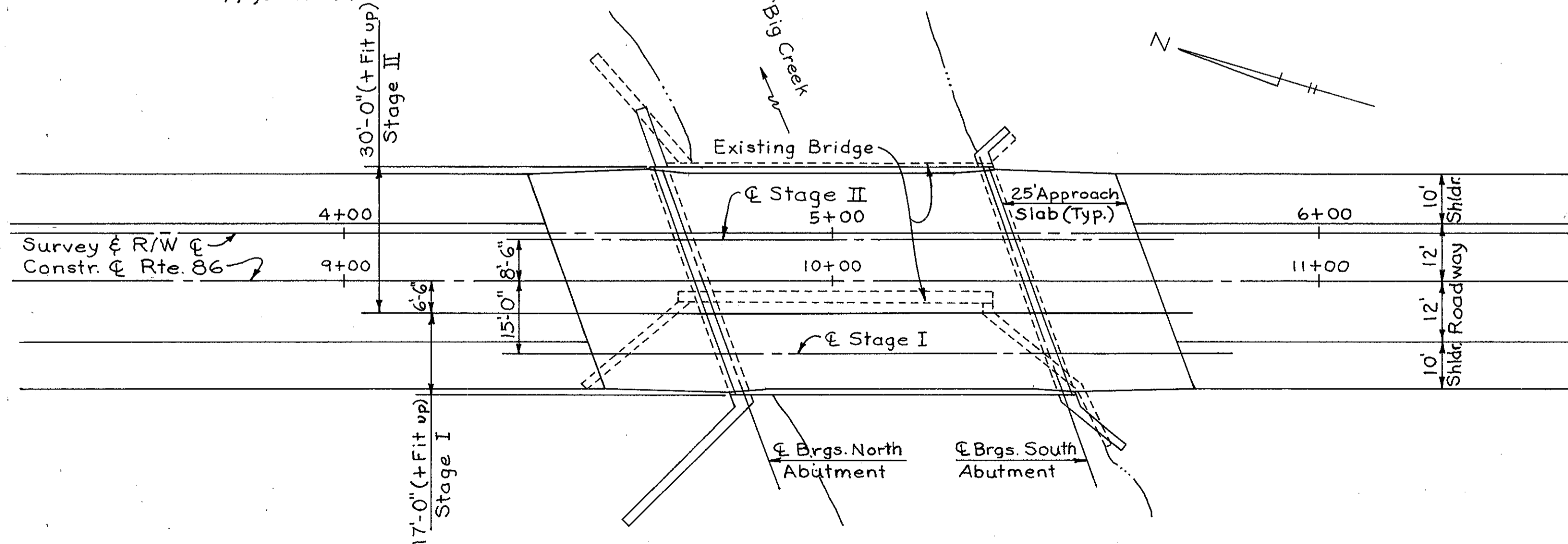


ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUBSTR.	SUPERSTR.	GENERAL
202	L.S.	Lump Sum	Portions of structure removed.			Lump Sum
403	12	Cu.Yd.	Asphalt Concrete (AC-20)		12	
404	12	Cu.Yd.	Asphalt Concrete (AC-20)		12	
503	L.S.	Lump Sum	Cofferdams, cribs and sheeting.	Lump Sum		
503	278	Cu.Yd.	Unclassified excavation.	278		
503	982	Cu.Yd.	Shale excavation.	982		
509	34,404	Lb.	Reinforcing steel, Grade 60	34,404		
510	16	Each	Dowel Holes (Prestressed Beams)		16	
510	14	Each	Dowel Holes (Existing Wall)		14	
511	213	Cu.Yd.	Class C Concrete, substructure footings.	213		
511	287	Cu.Yd.	Class C Concrete, substructure above footings.	287		
511	16	Cu.Yd.	Class S Concrete, superstructure		16	
512	396	Sq.Yd.	Type A waterproofing	396		
512	353	Sq.Yd.	Type D Waterproofing		353	
515	13	Each	Prestressed concrete bridge members (B33-36)		13	
515	2	Each	Prestressed concrete bridge members (B33-48)		2	
516	135	Sq.Ft.	1/2" Preformed expansion joint filler	135		
516	284	Sq.Ft.	1" Preformed expansion joint filler		284	
516	60	Each	1'x4'x12" laminated elastomeric bearings.		60	
516	10	Sq.Ft.	1/8" Preformed bearing pads, 711.21.		10	
516	241	Lin.Ft.	Joint sealer.	111	130	
516	144	Lin.Ft.	R.V.C. Waterstop, as per plan	144		
518	193	Cu.Yd.	Porous backfill.	193		
Special	919 *	Sq.Yd.	Sealing of concrete surfaces (See Proposal Note)	410	509	
824	11,491	Lb.	Epoxy coated reinforcing steel, Grade 60	9844	1647	

* 47% of this item will be non-Federal Participation.



GENERAL PLAN

GENERAL NOTES

DESIGN SPECIFICATIONS:

This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1977, including the 1978, 1979, 1980, 1981 and 1982 Interim Specifications and the Ohio "Supplement" to these specifications.

DESIGN DATA:

Design Loading H520-44 and the Alternate Military Loading
 Concrete Class S Unit stress 1500 p.s.i. for superstructure.
 Concrete Class C Unit stress 1333 p.s.i. for substructure.

Reinforcing Steel ASTM A615, A616 or A617, Grade 60.
 Unit stress 24,000 p.s.i.

Concrete for Prestressed concrete beams. Unit stress 2200 p.s.i. compression.
 444 p.s.i. tension.

Prestressing Strands ASTM A416, f's=270,000 p.s.i.
 Initial stress=0.70 f's

REMOVAL OF EXISTING STRUCTURE:

Portions of the existing west wingwalls shall be removed as required to construct Stage I of the proposed bridge. During Stage 2, when no longer needed to maintain traffic, the remainder of the existing structure shall be removed except for the end portion of the existing northeast wingwall as shown on these plans. This item shall include the cost of removal of the north end supplementary supports.

STAGE CONSTRUCTION:

The proposed bridge is to be constructed in two stages while maintaining traffic through the site. Traffic will be maintained on the existing bridge during Stage I construction and on the new portion of the proposed bridge during Stage 2 construction.

FOUNDATION BEARING PRESSURE:

The north abutment footings are designed for a maximum bearing pressure of 5.0 tons per sq. ft. The south abutment footings are designed for a maximum bearing pressure of 5.0 tons per sq. ft.

FOOTINGS:

Footings shall be placed in bed rock at the elevations shown.

REFERENCE DRAWINGS AND SPECIFICATIONS:

Standard Drawings:	Supplemental Specifications:
AS-1-81 Dated 11-27-81	824 Dated 10-8-82
BR-1 Dated 5-29-79	956 Dated 6-26-78
PSBD-1-81 Dated 9-18-81	853 Dated 6-26-78
MC-9A Dated 5-1-81	
GR-3 Dated 2-5-82	

DECK PROTECTION METHOD: Type D Waterproofing and Asphalt Concrete Overlay.

ITEM SPECIAL, SEALING OF CONCRETE SURFACES:

A sealer shall be applied to all exposed concrete surfaces of the parapets, abutments and wingwalls, and to the box beam ends, bottoms, and sides, excluding keyway surfaces. See the proposal for sealer surface preparation requirements, application rates and procedures, and material requirements.

CAPITOL ENGINEERING ASSOCIATES CONSULTING CIVIL ENGINEERS PAINESVILLE, OHIO					
ESTIMATED QUANTITIES & GENERAL NOTES					
BRIDGE NO. LAK-86-0229 OVER BIG CREEK					
LAKE COUNTY			STA 9+72.88 TO STA 10+40.12		
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
TAP	DPR	CS	NE	EM	11/24/82
					REVISED 7-20-84