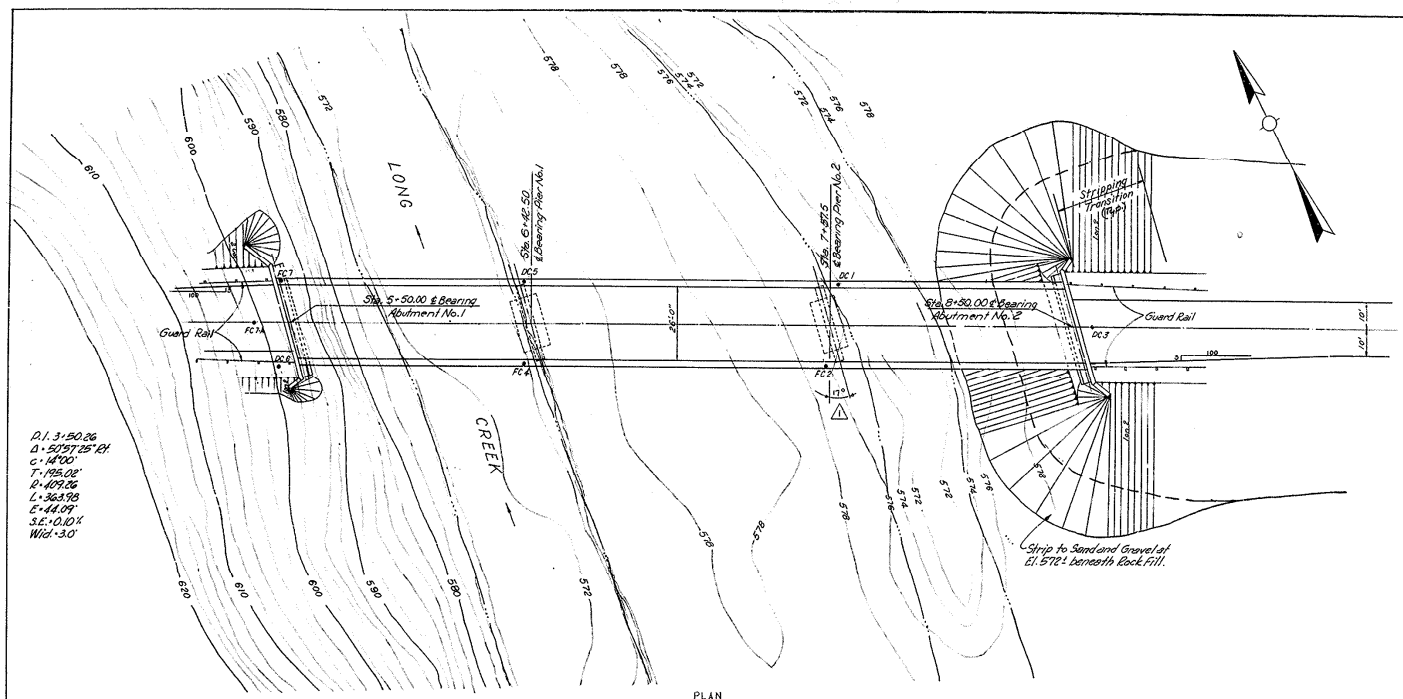
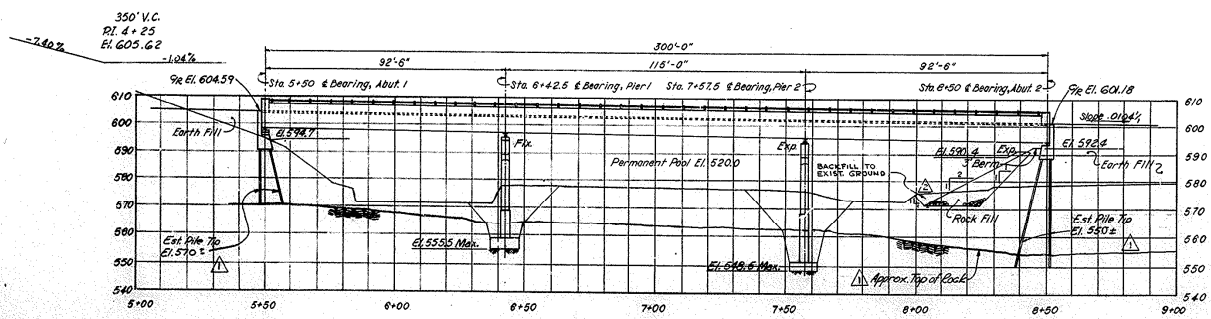


Note:
For transition see Roadway Plans

PLAN

20 0 20 40 FT.

NOTES:
1. At Abutment No.2 Conical transition for Rock, Pyramidal for Earth.
2. Borings shown thus ● DC-6. For Boring Logs, See Sh. 31.



PROFILE

ALLEN CO. DRAWING No. 17549 SHEET 1 OF 8

SYMBOL	DESCRIPTION	DATE	APPROVAL
2	LIMIT OF BACKFILL AND NOTE ADDED, (AMDT. #3 DTD. 19 JUNE 62)	11 JULY 62	G.C.B.
1	ROCK LINE & PILE TIP ELEVATIONS CORRECTED, DEFLECTION ANGLE ADDED (AMEND. No. 2)	8 JUNE 62	SEE.

REVISIONS

CARL P. KROBOTH
CONSULTING ENGINEERS
LEXINGTON, KENTUCKY

U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DRAWN BY: [illegible]
TRACED BY:
CHECKED BY:
SUBMITTED: Carl P. Kroboth
ARCHITECT-ENGINEER
APPROVED: [illegible]
CHIEF, ENGINEERING DIVISION
APPROVED: Daniel C. Carter
PROJ. COL., CORPS OF ENGINEERS, DISTRICT ENGINEER
APPROVED FOR:
DATE:

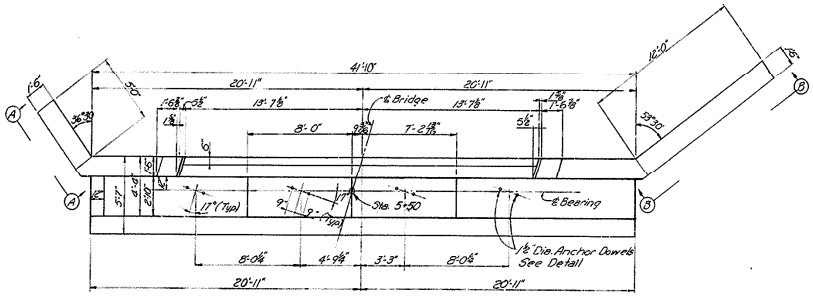
OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 4 RELOCATION KY. 100

LONG CREEK
PLAN AND PROFILE

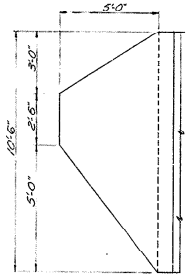
DATE: MAY 62
SCALE: 1" = 20'

DRAWING NUMBER
SR 79-12.7/38

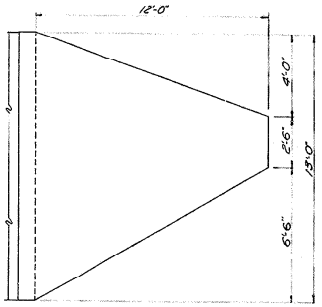
RECORD DRAWING-"AS BUILT"



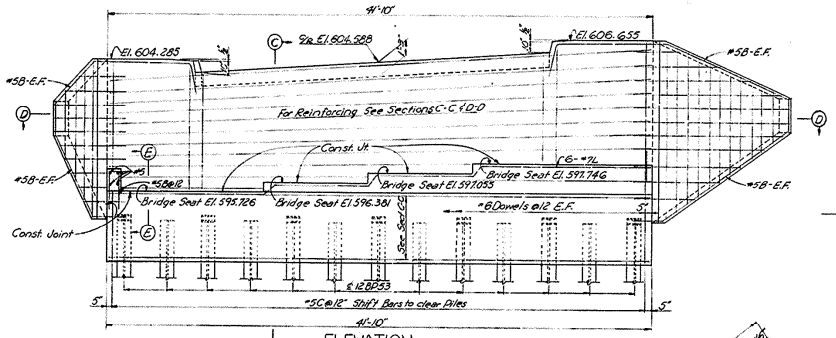
PLAN OF CAP
Scale ¼"=1'-0"



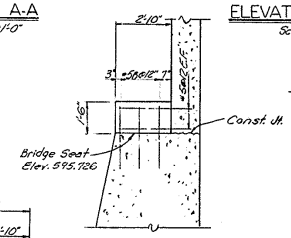
ELEVATION A-A
Scale ⅜"=1'-0"



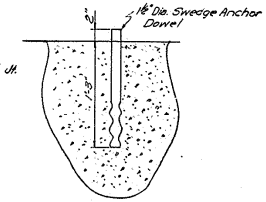
ELEVATION B-B
Scale ⅜"=1'-0"



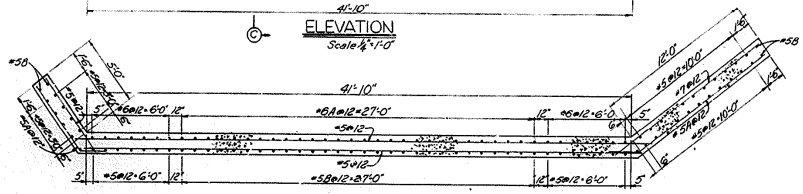
ELEVATION
Scale ¼"=1'-0"



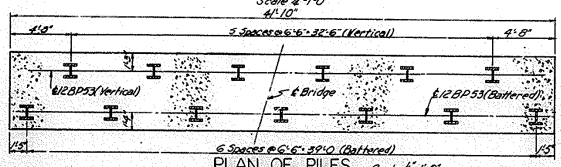
SECTION E-E
Scale ⅜"=1'-0"



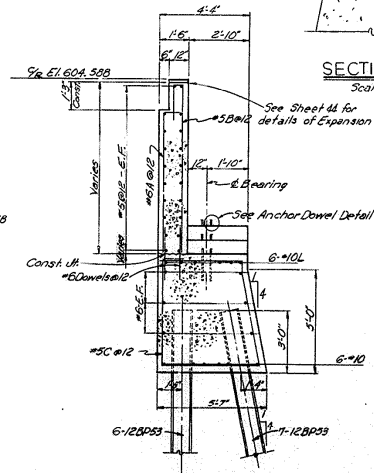
ANCHOR DOWEL DETAIL
Scale 1½"=1'-0"



SECTION D-D
Scale ¼"=1'-0"



PLAN OF PILES
Scale ¼"=1'-0"



SECTION C-C
Scale ⅜"=1'-0"

NOTES

1. For Reinforcing Steel coverage notes and bar bending schedule - See Sh. 40.
2. For General Notes - See Sh. 40.

ALLEN Co. DRAWING No. 17549 SHEET 2

SYMBOL	DESCRIPTION	DATE	APPROVAL

REVISIONS

CARL P. KROBOTH
CONSULTING ENGINEERS
LEXINGTON, KENTUCKY

U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DRAWN BY: DGM.
TRACED BY:
CHECKED BY: JEH.
SUBMITTED: Carl P. Kroboth
ARCHITECT-ENGINEER

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 4 RELOCATION KY. 100

LONG CREEK
ABUTMENT I

APPROVED: R. H. Hayes
CHIEF, ENGINEERING DIVISION

APPROVED: David G. Carter
COLONEL, CORPS OF ENGINEERS, DISTRICT ENGINEER

DATE: MAY 62

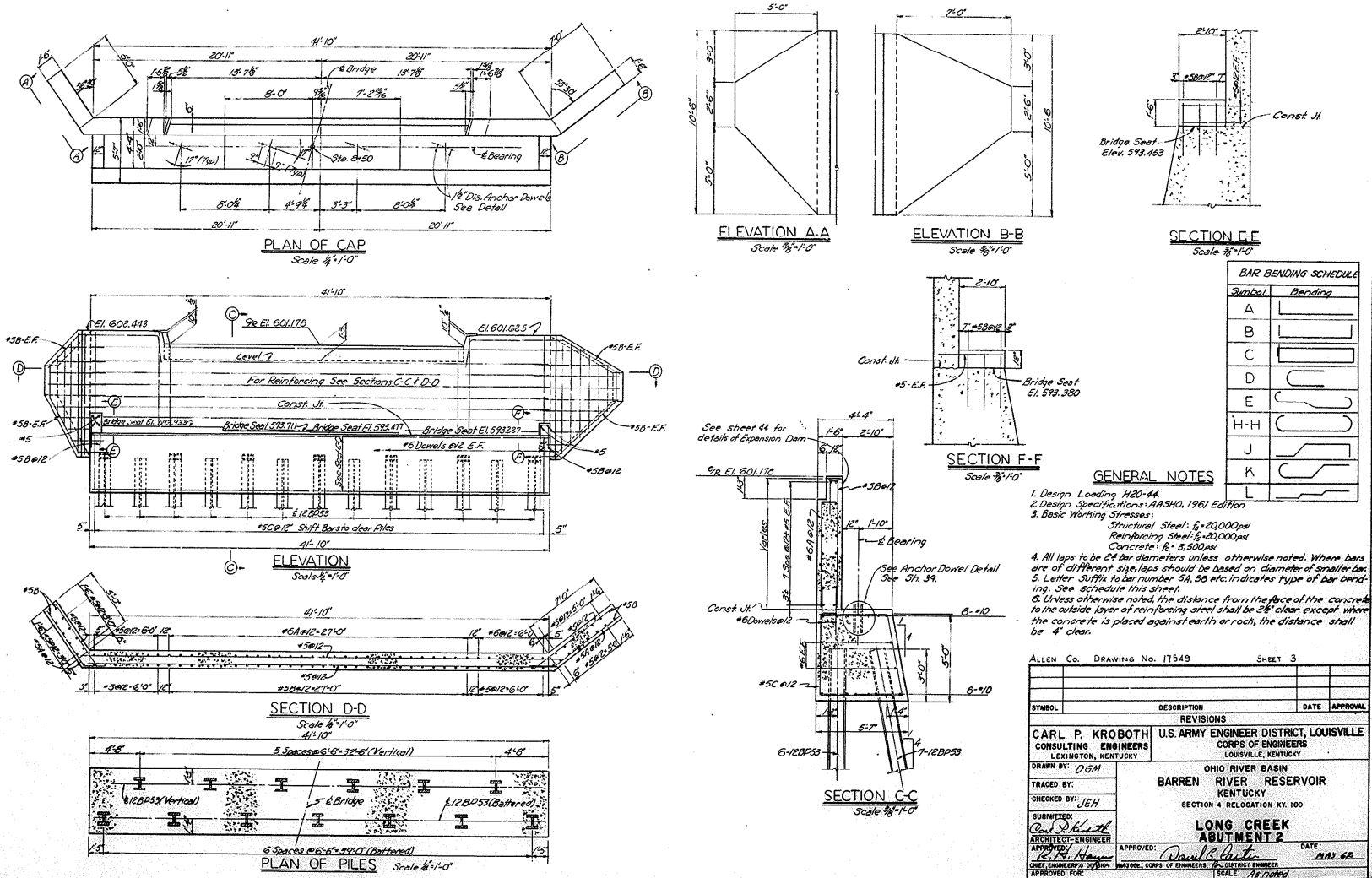
APPROVED FOR:

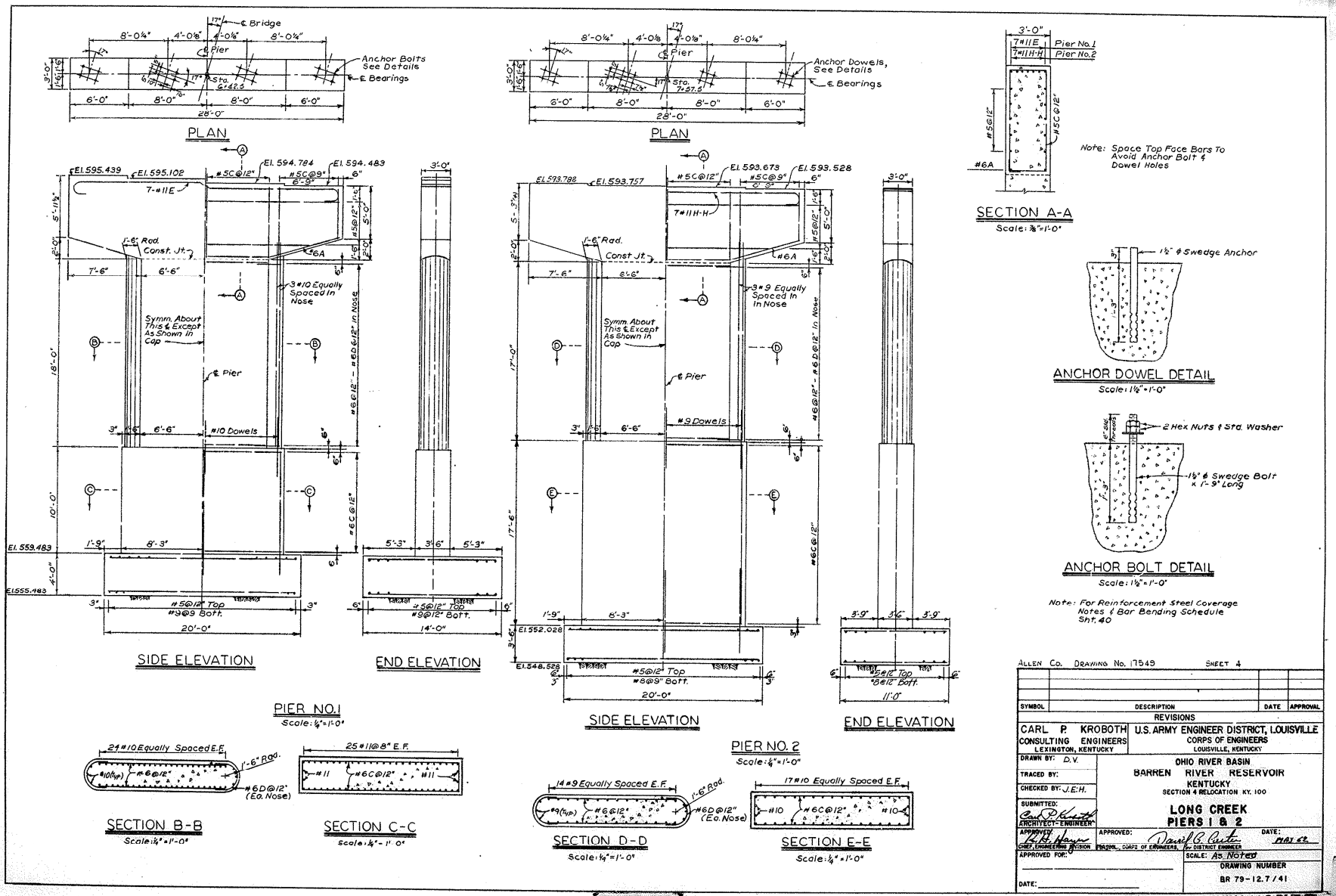
DATE:

SCALE: As noted

DRAWING NUMBER
BR 79-12.7/39

RECORD DRAWING "AS BUILT"


PLAN OF CAP
Scale 1/4"=1'-0"
ELEVATION
Scale 1/4"=1'-0"
SECTION D-D
Scale 1/4"=1'-0"
PLAN OF PILES
Scale 1/4"=1'-0"
ELEVATION A-A
Scale 3/8"=1'-0"
ELEVATION B-B
Scale 3/8"=1'-0"
SECTION E-E
Scale 3/8"=1'-0"
SECTION F-F
Scale 3/8"=1'-0"
SECTION C-C
Scale 3/8"=1'-0"
BAR BENDING SCHEDULE
Symbol
Bending
A
B
C
D
E
H-H
J
K
L
GENERAL NOTES
1. Design Loading H20-44.
2. Design Specifications: AASHO, 1961 Edition
3. Basic Working Stresses:
Structural Steel: fs=20,000psi
Reinforcing Steel: fs=20,000psi
Concrete: fc=3,500psi
4. All laps to be 24 bar diameters unless otherwise noted. Where bars are of different size, laps should be based on diameter of smaller bar.
5. Letter Suffix to bar number 5A, 5B etc. indicates type of bar bending. See schedule this sheet.
6. Unless otherwise noted, the distance from the face of the concrete to the outside layer of reinforcing steel shall be 2½" clear except where the concrete is placed against earth or rock, the distance shall be 4" clear.
ALLEN Co. DRAWING No. 17549 SHEET 3
SYMBOL
DESCRIPTION
DATE
APPROVAL
REVISIONS
CARL P. KROBOTH
CONSULTING ENGINEERS
LEXINGTON, KENTUCKY
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY
DRAWN BY: DGM
TRACED BY:
CHECKED BY: JEH
SUBMITTED:
ARCHITECT-ENGINEER
OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 4 RELOCATION KY. 100
LONG CREEK
ABUTMENT 2
APPROVED:
CHIEF, ENGINEERING DIVISION
APPROVED:
DISTRICT ENGINEER
DATE: MAY 62
APPROVED FOR:
DATE:
SCALE: As noted
DRAWING NUMBER
BR 79-12.7/40
RECORD DRAWING-"AS BUILT"



ALLEN CO. DRAWING No. 17549 SHEET 4

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

CARL P. KROBOTH CONSULTING ENGINEERS LEXINGTON, KENTUCKY

U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

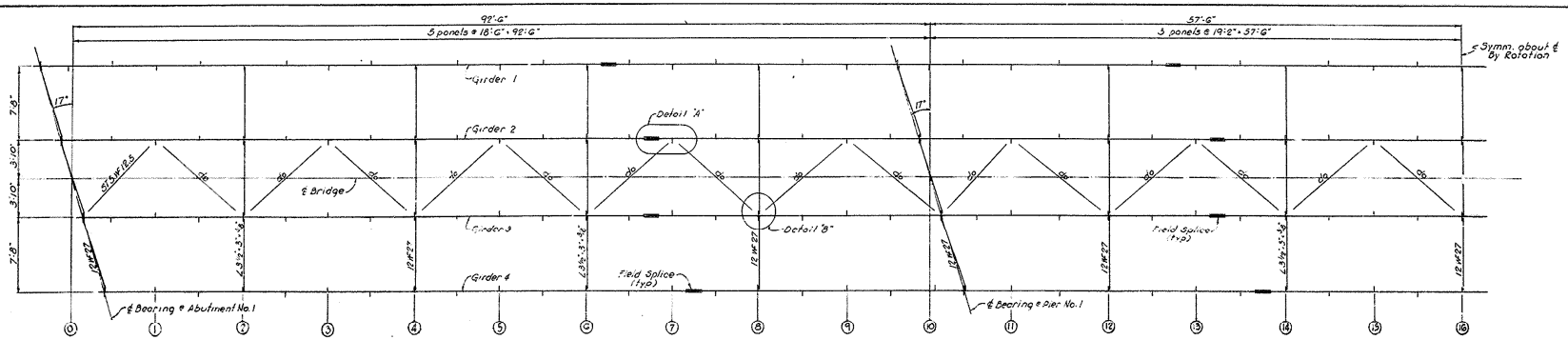
DRAWN BY: D.V.
TRACED BY:
CHECKED BY: J.E.H.
SUBMITTED: ARCHITECT-ENGINEER
APPROVED: CHIEF, ENGINEERING DIVISION
APPROVED: MAJOR, CORPS OF ENGINEERS, for DISTRICT ENGINEER
DATE: MAY 62
APPROVED FOR:
DATE:

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 4 RELOCATION KY. 100

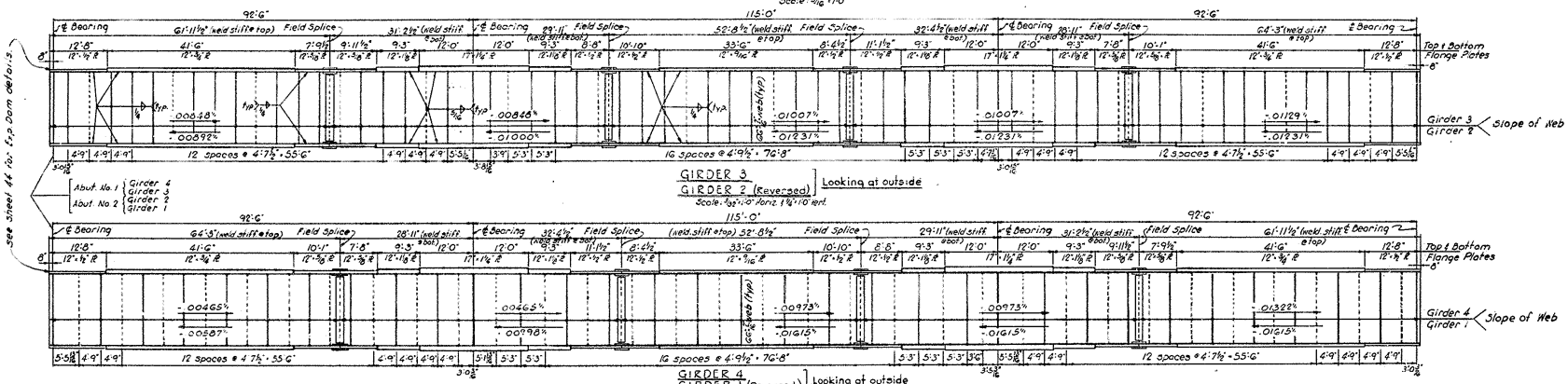
LONG CREEK
PIERS 1 & 2

SCALE: AS NOTED
DRAWING NUMBER
BR 79-12.7/41

RECORD DRAWING-"AS BUILT"

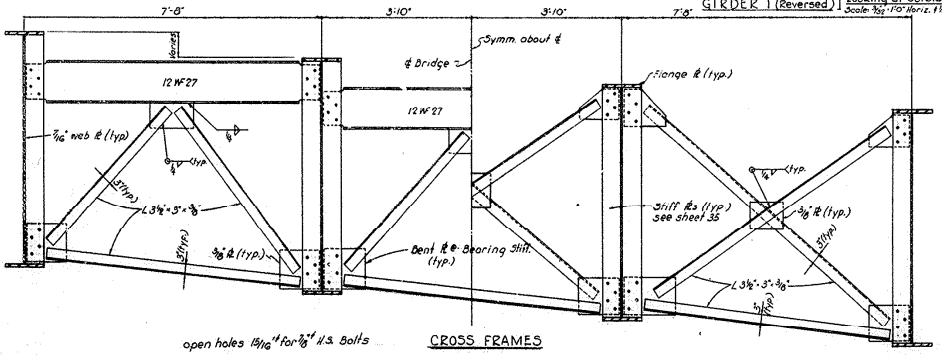


HALF FRAMING
Scale: 3/16" = 1'-0"



GIRDER 3
GIRDER 2 (Reversed) Looking at outside
Scale: 3/32" = 1'-0" Horiz. & 1/4" = 1'-0" Vert.

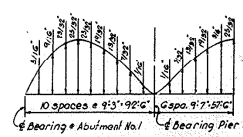
GIRDER 4
GIRDER 1 (Reversed) Looking at outside
Scale: 3/32" = 1'-0" Horiz. & 1/4" = 1'-0" Vert.



open holes 15/16" for 7/8" H.S. Bolts

CROSS FRAMES

NOTES:
1. Material: Web, Flange & Bearing Stiffeners are ASTM-A36. All others are ASTM-A7.
2. For General Notes see sheet 40.
3. All dimensions parallel to ℄ Bridge are in a horizontal plane.
4. See sheet 35 for details of stiffeners and shop splices.
5. See sheet 43 for field splice.



CAMBER DIAGRAM
*Total Dead Load
no scale
* Includes weight of concrete deck, handrail & structural steel.

ALLEN Co. DRAWING No. 17549 SHEET 5

SYMBOL	DESCRIPTION	DATE	APPROVAL

REVISIONS

CARL P. KROBOTH
CONSULTING ENGINEERS
LEXINGTON, KENTUCKY

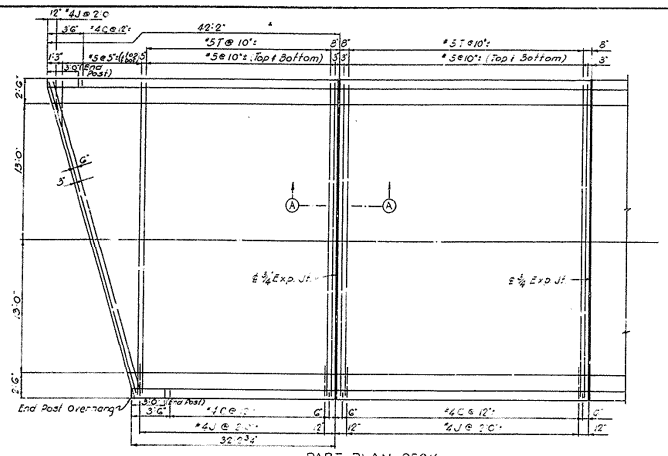
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DRAWN BY: CPK Jr.
TRACED BY:
CHECKED BY: JEH
SUBMITTED: Carl P. Kroboth
ARCHITECT-ENGINEER
APPROVED: K. H. Hayes
CHIEF, ENGINEERING DIVISION
APPROVED: Daniel E. Carter
LT. COL., CORPS OF ENGINEERS, DISTRICT ENGINEER
APPROVED FOR:
DATE:

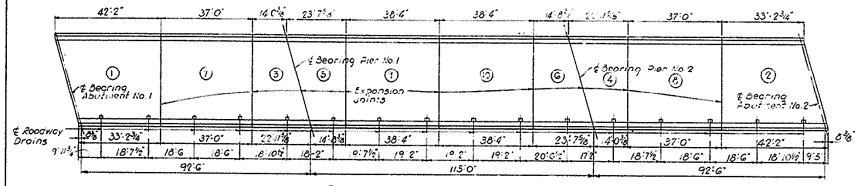
OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 4 RELOCATION KY 100
LONG CREEK
FRAMING PLAN

DATE: MAR 62
SCALE: 3/4" = 1'-0" except as noted
DRAWING NUMBER
BR 79-12.7 / 42

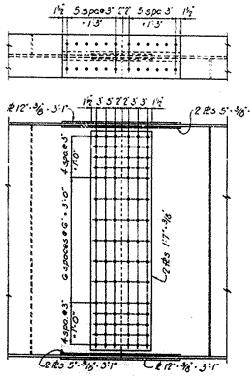
RECORD DRAWING-"AS BUILT"



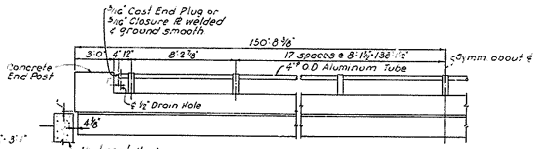
PART PLAN DECK
No Scale



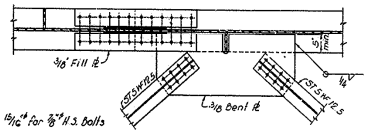
POURING ORDER AND DRAIN LOCATION
No Scale



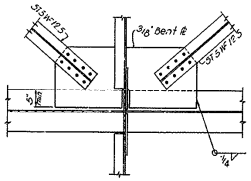
FIELD SPLICE



HALF ELEVATION
(Showing Handrail Post Spacing)
Scale: ¼"=1'-0"



DETAIL A



DETAIL B

1. For Reinforcing Steel coverage notes and bar bending schedule see sheet 40.
2. For details of Handrail Post, Roadway Drains, End Post, Typical Deck Section & Section A-A, see sheet 36.
3. For details of Expansion Dam see sheet 44.

SCREED ELEVATION TABLE

LOCATION	STATION	PROFILE GRADE	GIRDER 1 Constr. Elev.	GIRDER 1 Top of Steel	GIRDER 1 "X"	GIRDER 2 Constr. Elev.	GIRDER 2 Top of Steel	GIRDER 2 "X"	GIRDER 3 Constr. Elev.	GIRDER 3 Top of Steel	GIRDER 3 "X"	GIRDER 4 Constr. Elev.	GIRDER 4 Top of Steel	GIRDER 4 "X"
℄ Brg. Gir. 1	5+46.48	604.617	605.610			–			–			–		
℄ Brg. Gir. 2	5+48.83	604.570	–			604.897			–			–		
℄ Brg. Rail 1 & 2 Posts	5+50.00	604.547	605.528			604.873			–			–		
℄ Brg. Gir. 3	5+51.17	604.524	–			–			604.202			–		
℄ Brg. Gir. 4	5+53.52	604.480	–			–			–			603.527		
	5+59.35	604.375	605.384			604.707			604.086			603.469		
	5+68.50	604.218	605.128			604.548			603.965			603.383		
	5+77.75	604.076	604.941			604.397			603.853			603.309		
	5+87.00	603.951	604.764			604.257			603.751			603.244		
	5+96.25	603.840	604.595			604.125			603.655			603.185		
	6+05.50	603.743	604.433			604.000			603.568			603.135		
	6+14.75	603.647	604.270			603.873			603.477			603.081		
	6+24.00	603.550	604.107			603.746			603.305			603.023		
	6+33.25	603.454	603.951			603.622			603.295			602.967		
℄ Brg. Gir. 1	6+38.98	603.395	603.856			–			–			–		
℄ Brg. Gir. 2	6+41.33	603.370	–			603.519			–			–		
℄ Brg. Rail 1 & 2 Posts	6+42.50	603.358	603.801			603.505			603.211			602.917		
℄ Brg. Gir. 3	6+43.67	603.346	–			–			603.201			–		
℄ Brg. Gir. 4	6+46.02	603.321	–			–			–			602.900		
	6+52.08	603.258	603.652			603.393			603.132			602.874		
	6+61.67	603.159	603.510			603.286			603.062			602.839		
	6+71.25	603.059	603.368			603.181			602.993			602.806		
	6+80.83	602.959	603.226			603.076			602.924			602.774		
	6+90.42	602.860	603.079			602.967			602.850			602.728		
	7+00.00	602.760	602.924			602.851			602.755			602.635		
	7+09.58	602.660	602.763			602.728			602.653			602.534		
	7+19.17	602.561	602.597			602.600			602.544			602.427		
	7+28.75	602.461	602.484			602.487			602.431			602.314		
	7+38.33	602.361	602.371			602.374			602.318			602.201		
	7+47.92	602.262	602.264			602.266			602.208			602.090		
℄ Brg. Gir. 1	7+53.98	602.199	602.199			–			–			–		
℄ Brg. Gir. 2	7+56.33	602.174	–			602.171			–			–		
℄ Brg. Rail 1 & 2 Posts	7+57.50	602.162	602.163			602.162			602.102			601.983		
℄ Brg. Gir. 3	7+58.67	602.150	–			–			602.090			–		
℄ Brg. Gir. 4	7+61.02	602.125	–			–			–			601.945		
	7+66.75	602.066	602.074			602.072			602.009			601.888		
	7+76.00	601.970	601.980			601.987			601.923			601.800		
	7+85.25	601.873	601.925			601.929			601.839			601.716		
	7+94.50	601.777	601.883			601.880			601.756			601.633		
	8+03.75	601.681	601.836			601.767			601.670			601.549		
	8+13.00	601.585	601.783			601.687			601.578			601.458		
	8+22.25	601.489	601.723			601.600			601.476			601.358		
	8+31.50	601.392	601.656			601.506			601.356			601.205		
	8+40.75	601.296	601.584			601.406			601.229			601.051		
℄ Brg. Gir. 1	8+46.48	601.237	601.537			–			–			–		
℄ Brg. Gir. 2	8+48.83	601.212	–			601.315			–			–		
℄ Brg. Rail 1 & 2 Posts	8+50.00	601.200	–			–			601.077			600.813		
℄ Brg. Gir. 3	8+51.17	601.188	–			–			601.061			–		
℄ Brg. Gir. 4	8+53.52	601.163	–			–			–			600.831		

NOTE: See Deck Section for meaning of "X" and Girder Nos. To obtain "X" take elevations on top of steel on points indicated after all steel is erected, but before deck forms are placed. Enter these elevations in table and subtract from Constr. Elev. Set templates by measuring "X" above top of steel. Do not set templates by elevations.

ALLEN CO. DRAWING No. 175-9 SHEET 6

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

CARL P. KROBOTH
CONSULTING ENGINEERS
LEXINGTON, KENTUCKY

U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

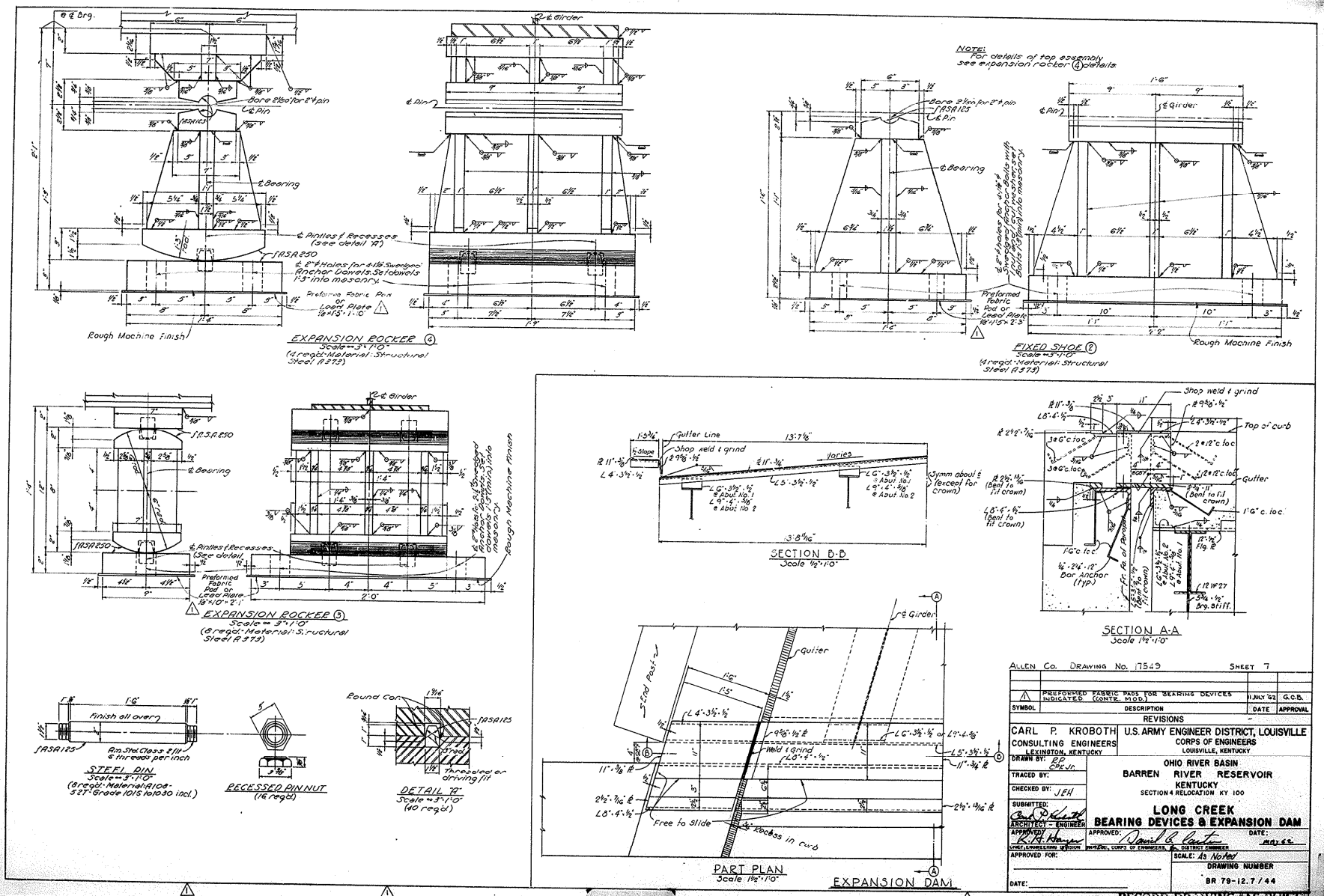
DRAWN BY: CPK Jr.
TRACED BY:
CHECKED BY: JEH
SUBMITTED: Carl P. Kroboth
ARCHITECT-ENGINEER

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 4 RELOCATION KY. 100

LONG CREEK
DECK PLAN

APPROVED: R. A. Hayes
CHIEF, ENGINEERING DIVISION
APPROVED: Donald R. Paul
DISTRICT ENGINEER
DATE: MAR 62
APPROVED FOR:
DATE:
SCALE: ¼" = 1'-0", except as noted
DRAWING NUMBER:
BR 79-12.7/43

RECORD DRAWING "AS BUILT"



ALLEN Co. DRAWING No. 17549 SHEET 7

SYMBOL	DESCRIPTION	DATE	APPROVAL
1	PREFORMED FABRIC PADS FOR BEARING DEVICES INDICATED (CONTR. MOD.)	11 JULY '62	G.C.B.

REVISIONS

CARL P. KROBOTH
CONSULTING ENGINEERS
LEXINGTON, KENTUCKY

U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

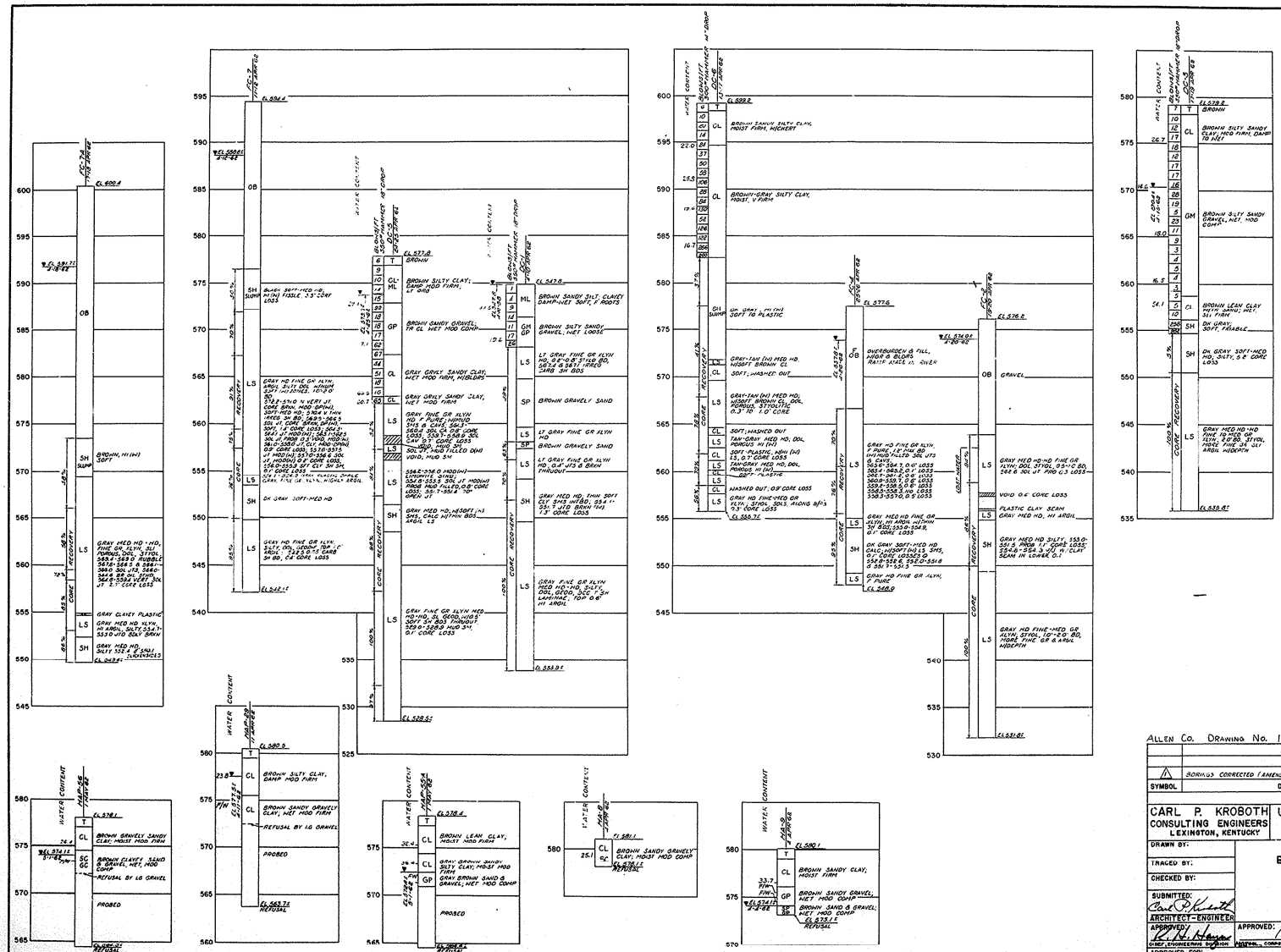
DRAWN BY: RP CPK Jr.
TRACED BY:
CHECKED BY: JEH
SUBMITTED: ARCHITECT - ENGINEER
APPROVED: CHIEF, ENGINEERING DIVISION
APPROVED: CHIEF, CORPS OF ENGINEERS, DISTRICT ENGINEER
APPROVED FOR:
DATE:

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 4 RELOCATION KY 100

LONG CREEK
BEARING DEVICES & EXPANSION DAM

DATE: MAY 62
SCALE: As Noted
DRAWING NUMBER
BR 79-12.7/44

RECORD DRAWING - AS BUILT



PROBINGS				
NO	TOP ELEV	BOTT ELEV	DEPTH	REMARKS
P-50	6545	6525	20	REFUSAL
P-52	6547	6521	20	"
P-53	6174	6094	80	"
P-54	6541	6219	122	"
P-57	5780	5690	90	"
P-58	5711	5652	99	"
P-59	5714	5610	104	"

ALLEN CO. DRAWING No. 17549 SHEET 8

SYMBOL	DESCRIPTION	DATE	APPROVAL
1	BORINGS CORRECTED (AMEND. NO. 2)	6 JUNE 62	A.H

REVISIONS

CARL P. KROBOTH
CONSULTING ENGINEERS
LEXINGTON, KENTUCKY

U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DRAWN BY:
TRACED BY:
CHECKED BY:
SUBMITTED: Carl P. Kroboth
ARCHITECT-ENGINEER

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 4 RELOCATION KY. 100

LONG CREEK
BORING LOGS - SHEET 2

APPROVED: R. H. Hayes
CHIEF, ENGINEERING DIVISION

APPROVED: David G. Carter
ASSOCIATE, CORPS OF ENGINEERS, DISTRICT ENGINEER

DATE: MAY 62

APPROVED FOR:

DATE:

SCALE: 1" = 5' Vert.

DRAWING NUMBER
DR 79-12.7/31

RECORD DRAWING - AS BUILT