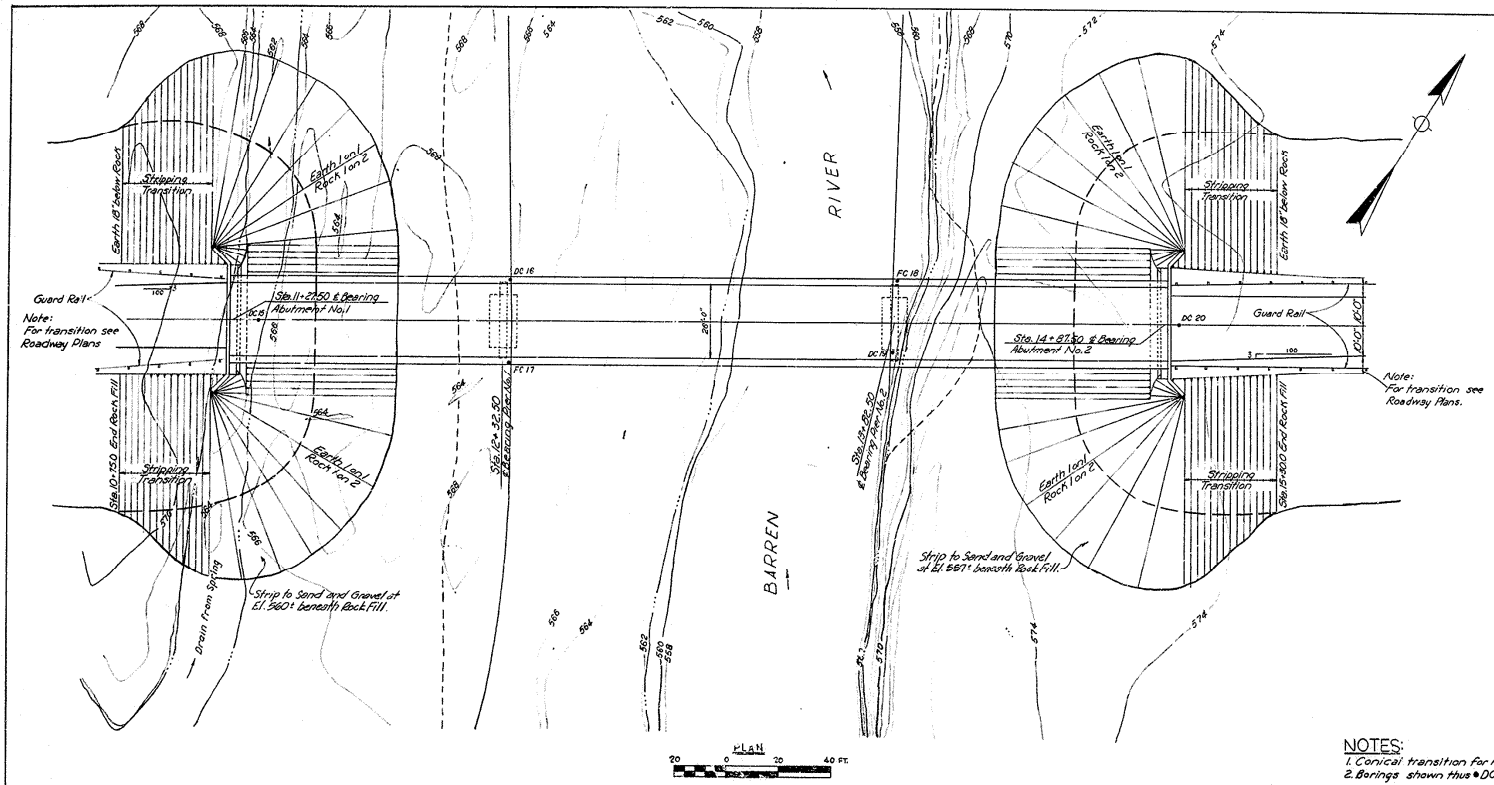
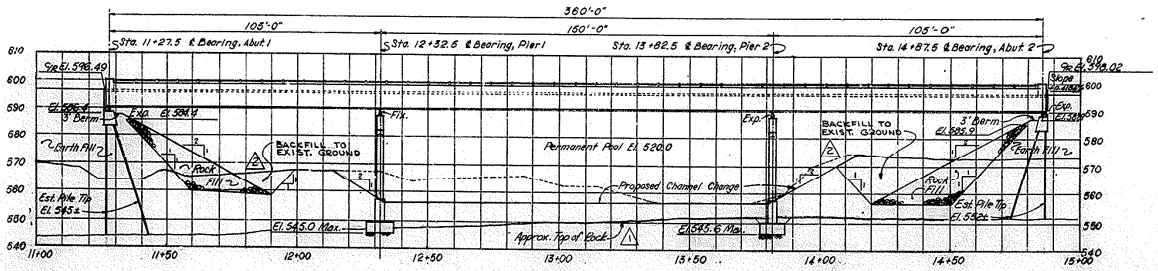


NOTES:
1. Conical transition for Rock, Pyramidal for Earth.
2. Borings shown thus ⊕DC-15: For Boring Logs See Sh.



PROFILE

ALLEN CO. DRAWING NO. 17548 SHEET 1 OF 7

SYMBOL	DESCRIPTION	DATE	APPROVAL
2	LIMITS OF BACKFILL AND NOTES ADDED. (AMDT. #3 DTD. 19 JUNE 1962)	11 JULY 62	G.C.G.
1	ROCK LINE CORRECTED (AMEND. NO. 2)	8 JUNE 62	S.F.P.

REVISIONS

CARL P. KROBOTH
CONSULTING ENGINEERS
LEXINGTON, KENTUCKY

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

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

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 3 RELOCATION KY. 100

BARREN RIVER PLAN AND PROFILE

APPROVED: R. W. Harper
CHIEF, ENGINEERING DIVISION

APPROVED: David S. Carter
MAJOR, CORPS OF ENGINEERS, DISTRICT ENGINEER

DATE: Mar 62

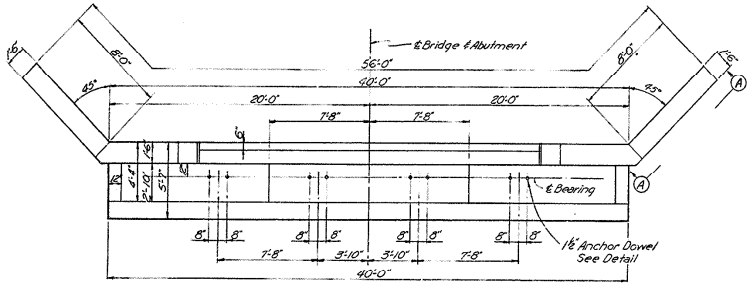
APPROVED FOR:

DATE:

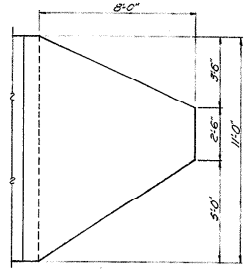
SCALE: 1" = 20'

DRAWING NUMBER
BR 79-12.7/32

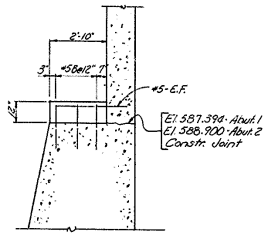
RECORD DRAWING-"AS BUILT"



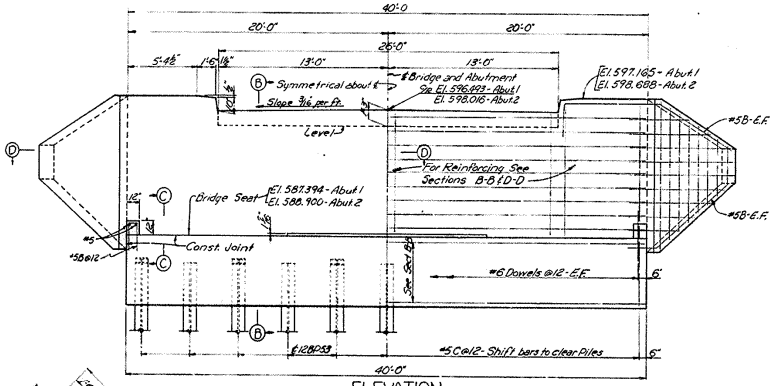
PLAN OF CAP
Scale ¼"=1'-0"



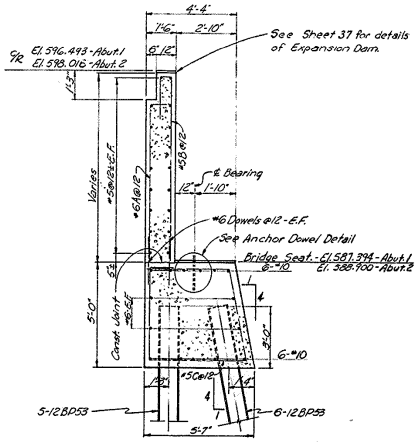
ELEVATION A-A
Scale ⅜"=1'-0"



SECTION C-C
Scale ⅜"=1'-0"



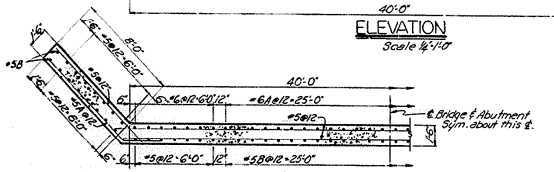
ELEVATION
Scale ¼"=1'-0"



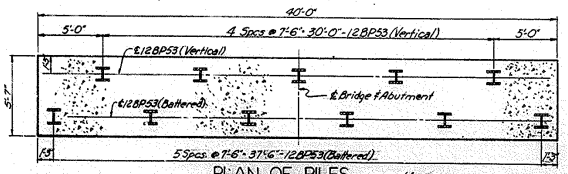
SECTION B-B
Scale ⅜"=1'-0"

NOTES

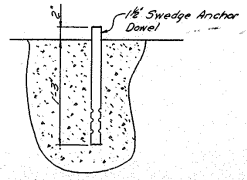
1. For Reinforcing Steel coverage notes and bar bending schedule See Sh. 40.
2. For General Notes, See Sh. 40.
3. Design Loading H20-44
4. Design Specifications: AASHO, 1961 Edition
5. Basic Working Stresses:
   Structural Steel: f_s = 20,000 psi.
   Reinforcing Steel: f_s = 20,000 psi.
   Concrete: f_c = 3500 psi.



SECTION D-D
Scale ¼"=1'-0"



PLAN OF PILES
Scale ¼"=1'-0"



ANCHOR DOWEL DETAIL
Scale 1½"=1'-0"

ALLEN CO. DRAWING No. 17548 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

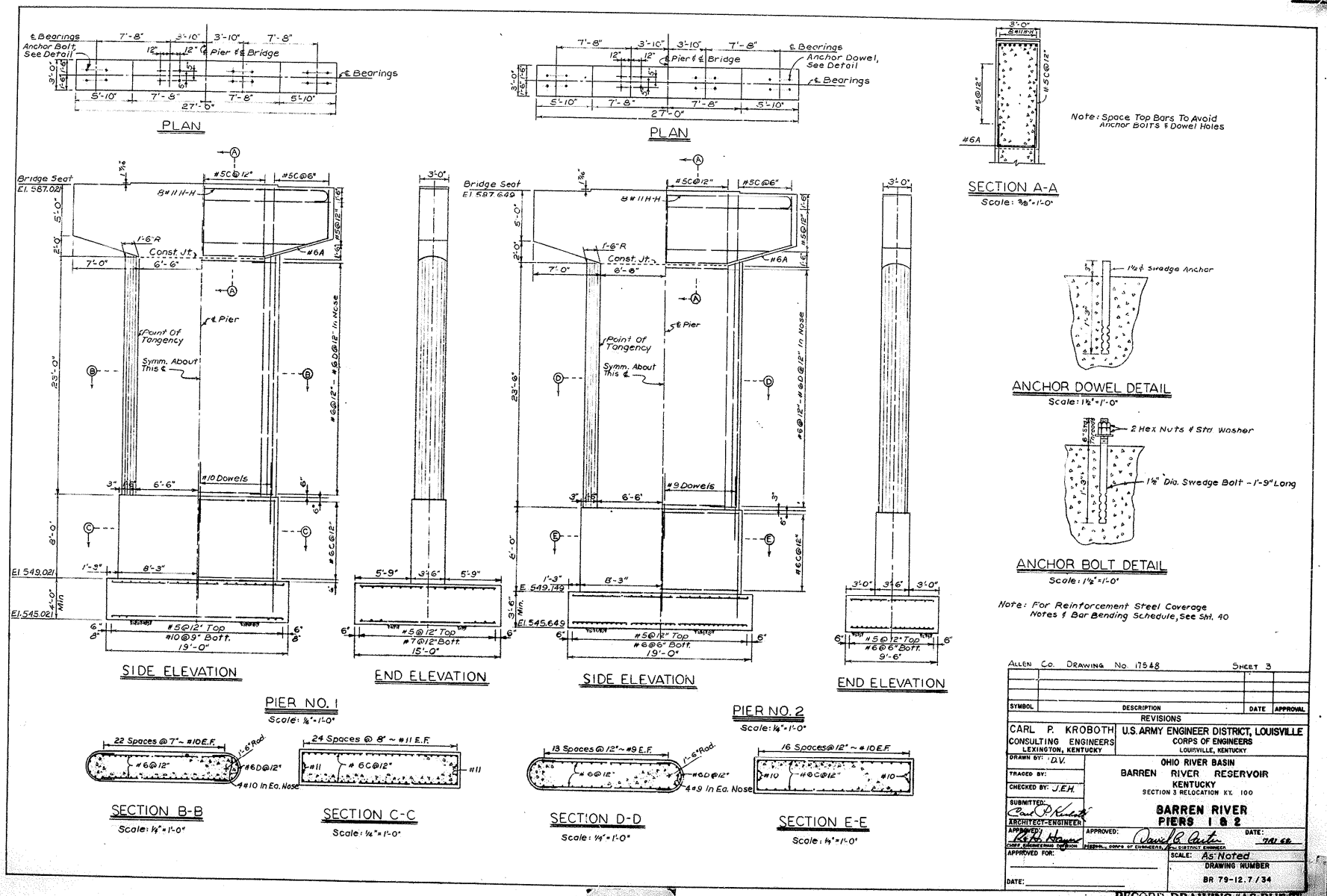
DRAWN BY: D.G.M.
TRACED BY:
CHECKED BY: J.E.H.
SUBMITTED:
ARCHITECT-ENGINEER
APPROVED: CHIEF, ENGINEERING DIVISION
APPROVED: DISTRICT ENGINEER
APPROVED FOR:
DATE:

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 3 RELOCATION KY. 100

BARREN RIVER
ABUTMENTS 1 & 2

DATE: MAY 62
SCALE: As noted
DRAWING NUMBER
BR 79-12.7/33

RECORD DRAWING-AS BUILT



ALLEN CO. DRAWING No. 17548 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

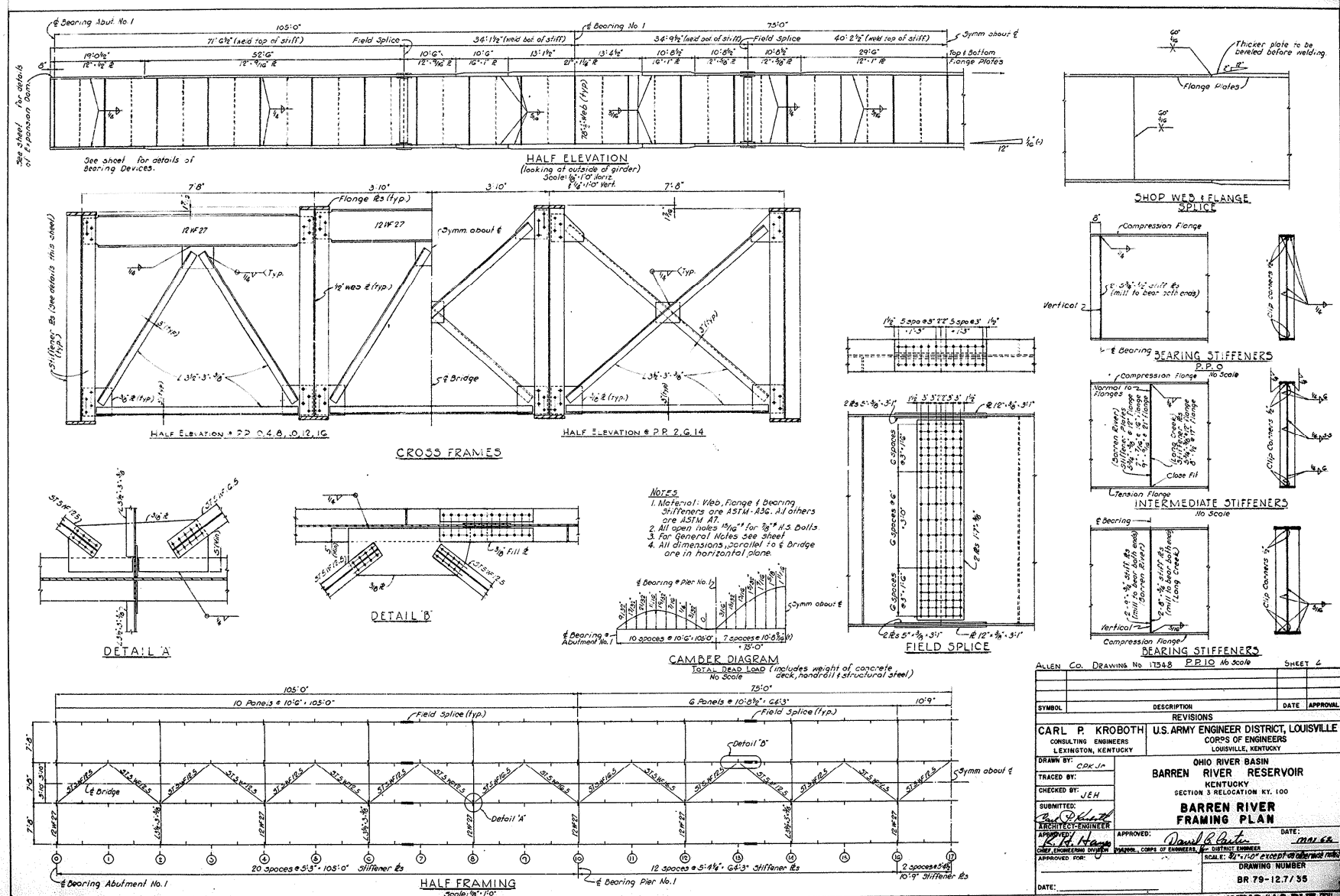
DRAWN BY: D.V.
TRACED BY:
CHECKED BY: J.E.H.
SUBMITTED: Carl P. Kroboth
ARCHITECT-ENGINEER
APPROVED: R. H. Hayes
CHIEF, ENGINEERING DIVISION
APPROVED FOR:
DATE:

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 3 RELOCATION KY. 100

BARREN RIVER
PIERS 1 & 2

APPROVED: David C. Carter
PROJECT, CORPS OF ENGINEERS, DISTRICT ENGINEER
DATE: 7 AUG 62
SCALE: As Noted
DRAWING NUMBER
BR 79-12.7/34

RECORD DRAWING-"AS BUILT"



ALLEN CO. DRAWING No 17548 P.P. 10 No Scale 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

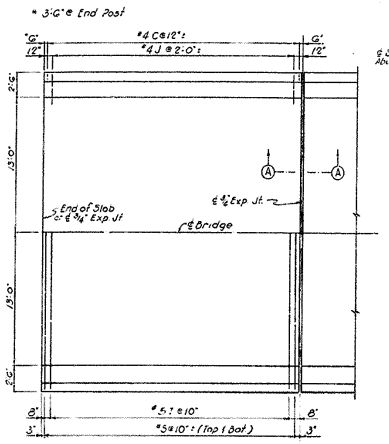
DRAWN BY: CPK Jr.
TRACED BY:
CHECKED BY: JEH
SUBMITTED: ARCHITECT-ENGINEER
APPROVED: CHIEF, ENGINEERING DIVISION
APPROVED: CHIEF, CORPS OF ENGINEERS, for DISTRICT ENGINEER
DATE: MAY 68
APPROVED FOR:
DATE:

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 3 RELOCATION KY. 100

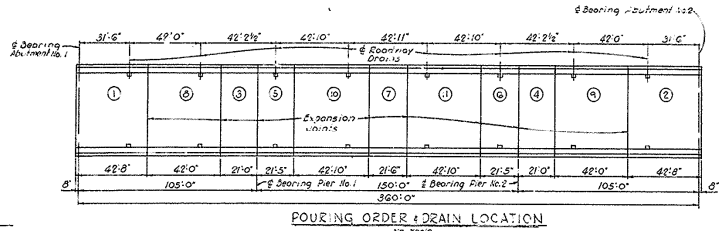
BARREN RIVER
FRAMING PLAN

SCALE: 1/8"=1'0" except as otherwise noted
DRAWING NUMBER
BR 79-12.7/35

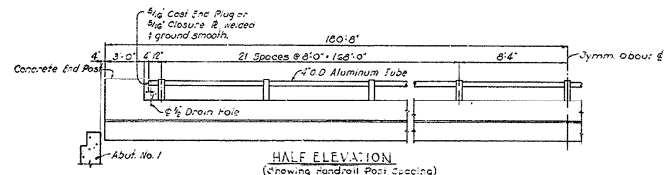
RECORD DRAWING-"AS BUILT"



PART PLAN DECK
No Scale
(Typical for all Deck Reinforcement)



POURING ORDER & DRAIN LOCATION
No Scale

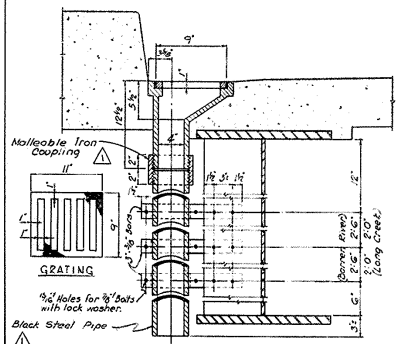


HALF ELEVATION
(Showing Handrail Post Spacing)
Scale: 1/4" = 1'-0"

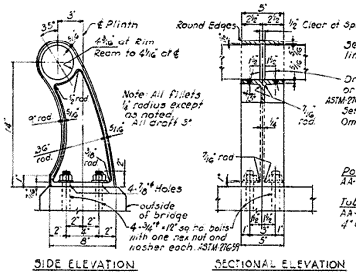
	STATION	PROFILE GRADE	CONST. ELEV. 1 or 4	GIRDER 1 TOP OF STEEL	GIRDER 1 "X"	GIRDER 4 TOP OF STEEL	GIRDER 4 "X"	CONST. ELEV. 2 or 3	GIRDER 2 TOP OF STEEL	GIRDER 2 "X"	GIRDER 3 TOP OF STEEL	GIRDER 3 "X"
℄ Brg. Abut 1	11+27.50	596.501	596.321					596.441				
	11+38.00	596.545	596.385					596.505				
	11+48.50	596.589	596.445					596.565				
	11+59.00	596.633	596.498					596.618				
	11+69.50	596.677	596.564					596.664				
	11+80.00	596.721	596.582					596.702				
	11+90.50	596.765	596.614					596.734				
	12+01.00	596.809	596.645					596.765				
	12+11.50	596.853	596.678					596.798				
	12+22.00	596.896	596.715					596.835				
℄ Brg. Pier 1	12+32.50	596.940	596.760					596.880				
	12+43.21	596.985	596.817					596.937				
	12+53.93	597.030	596.880					597.000				
	12+64.64	597.075	596.948					597.068				
	12+75.36	597.120	597.017					597.137				
	12+86.07	597.165	597.081					597.201				
	12+96.79	597.209	597.137					597.257				
	13+07.50	597.254	597.186					597.306				
	13+18.21	597.299	597.227					597.347				
	13+28.93	597.344	597.260					597.380				
	13+39.64	597.389	597.286					597.406				
	13+50.36	597.433	597.306					597.406				
	13+61.07	597.478	597.368					597.448				
	13+71.79	597.523	597.355					597.475				
℄ Brg. Pier 2	13+82.50	597.568	597.388					597.508				
	13+93.00	597.612	597.431					597.551				
	14+03.50	597.656	597.481					597.601				
	14+14.00	597.700	597.535					597.655				
	14+24.50	597.744	597.593					597.713				
	14+35.00	597.788	597.649					597.769				
	14+45.50	597.832	597.699					597.819				
	14+56.00	597.876	597.741					597.861				
	14+66.50	597.919	597.775					597.895				
	14+77.00	597.963	597.803					597.923				
℄ Brg. Abut 2	14+87.50	598.007	597.887					597.947				

SCREED ELEVATION TABLE

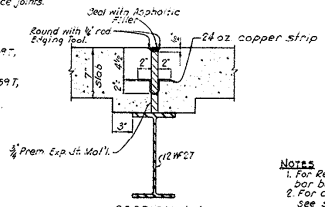
NOTE: SEE DECK SECTION FOR MEANING OF "X" AND GIRDER NOS.. TO OBTAIN "X" TAKE ELEVATIONS ON TOP OF STEEL ON POINTS INDICATED AFTER ALL STEEL IS ERECTED, BUT BEFORE DECK FORMS ARE PLACED. ENTER THESE ELEVATIONS IN TABLE AND SUBTRACT FROM CONSTR. ELEV. SET TEMPLATES BY MEASURING "X" ABOVE TOP OF STEEL. DO NOT SET TEMPLATES BY ELEVATIONS.



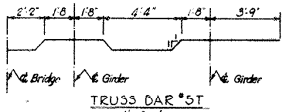
ROADWAY DRAINS (Gray Iron Coating ASTM-A48-56)
Scale: 1 1/2" = 1'-0"



HANDRAIL POST
Scale: 2" = 1'-0"

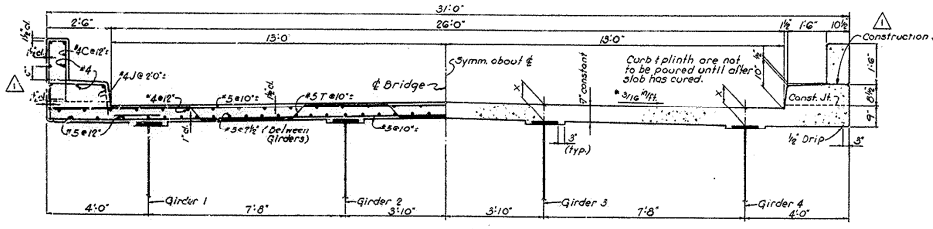


SECTION A-A
Scale: 1 1/2" = 1'-0"



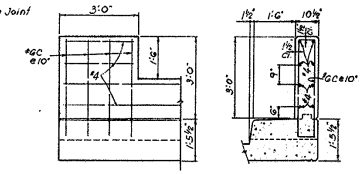
TRUSS BAR #5T
No Scale

Notes
1. For Reinforcing Steel coverage notes & bar bending schedule, see sheet 40
2. For details of Expansion Dam see sheet 37.



TYPICAL DECK SECTION
Scale: 1 1/2" = 1'-0"

* Varies on Bridge over Long Creek see Screed Elevation Table on Sheet 43.



ELEVATION

END POST
Scale: 1 1/2" = 1'-0"

SECTION

ALLEN CO. DRAWING No. 17548 SHEET 5

SYMBOL	DESCRIPTION	DATE	APPROVAL
1	DESCRIPTION OF PIPE & COUPLING IN ROADWAY DRAINS CHANGED. RAISED KEY IN PLINTH ELIMINATED. (CONTR. MOD)		G.C.B.

REVISIONS

CARL P. KROBOTH CONSULTING ENGINEERS
LEXINGTON, KENTUCKY

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

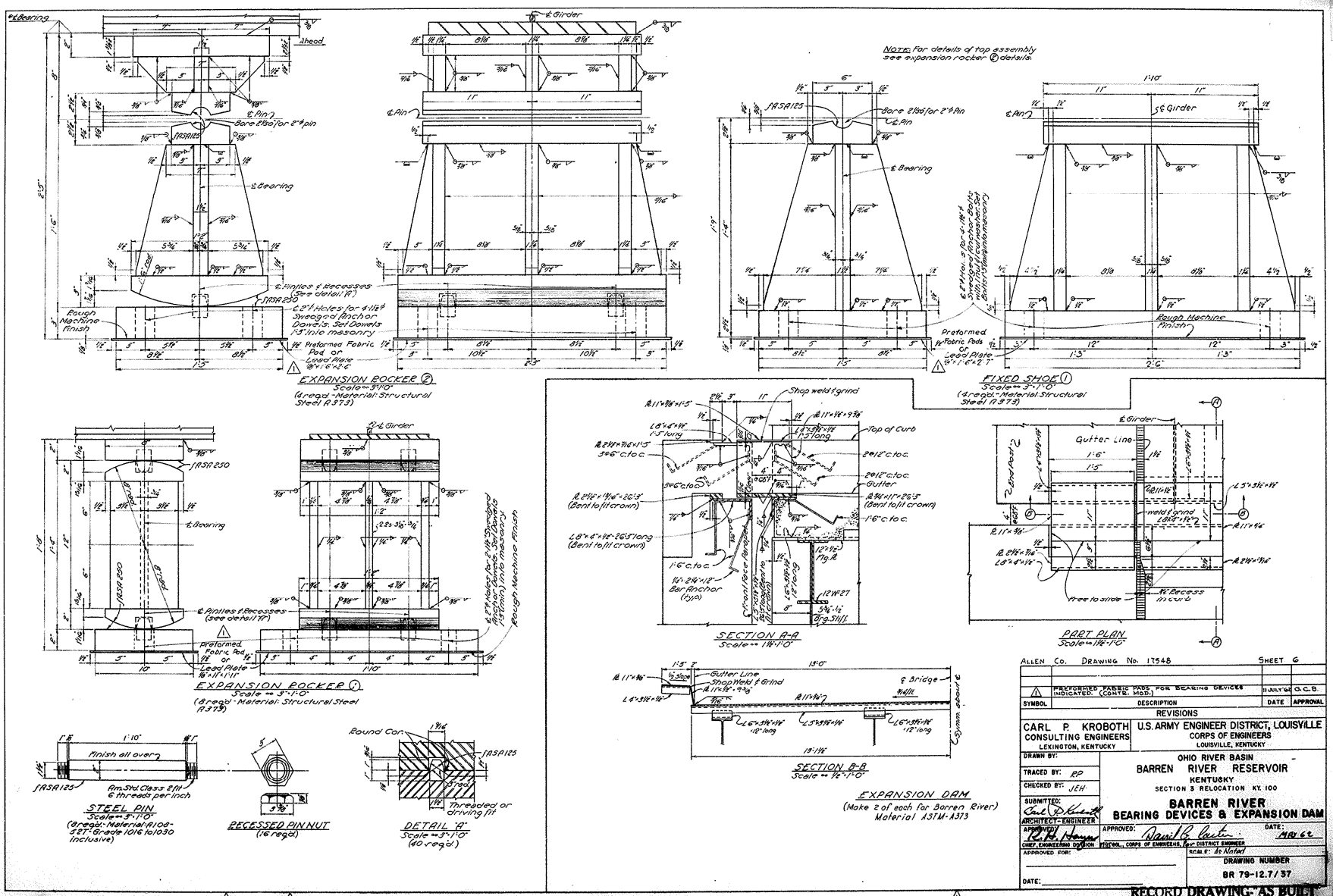
DRAWN BY: CPK Jr
TRACED BY:
CHECKED BY: JEH
SUBMITTED: Carl P. Kroboth
ARCHITECT-ENGINEER
APPROVED: Ralph Hayes
CHIEF, ENGINEERING DIVISION
APPROVED FOR:
DATE:

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 3 RELOCATION KY. 100

BARREN RIVER
DECK PLAN

APPROVED: David C. Carter
COLONEL, CORPS OF ENGINEERS, DISTRICT ENGINEER
DATE: 1981 62
SCALE: As Noted
DRAWING NUMBER
BR 79-12.7/36

RECORD DRAWING-"AS BUILT"



ALLEN CO. DRAWING No. 17548 SHEET 6

SYMBOL	DESCRIPTION	DATE	APPROVAL
△	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

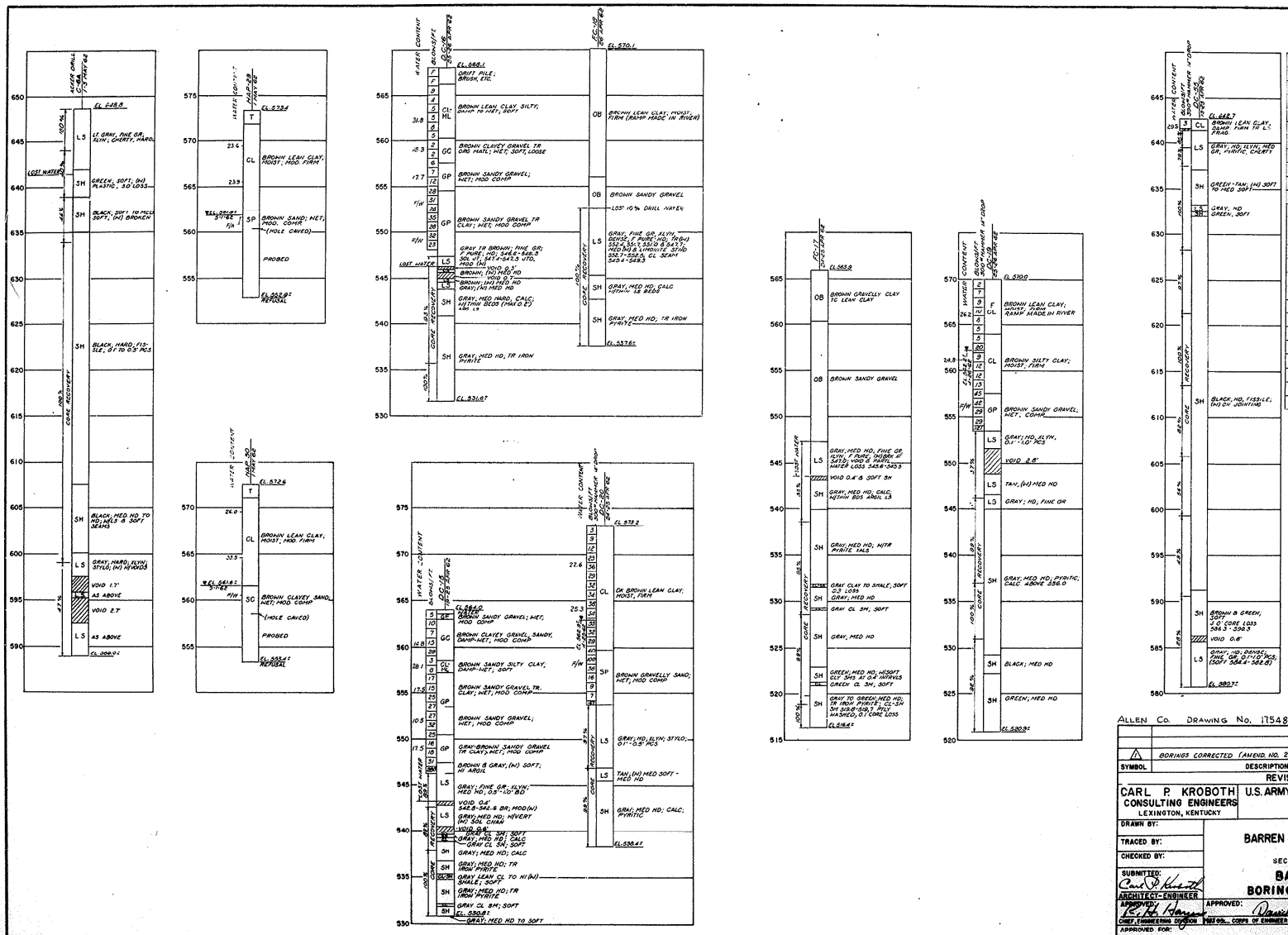
DRAWN BY:
TRACED BY: RP
CHECKED BY: JEH
SUBMITTED: Carl P. Kroboth
ARCHITECT-ENGINEER
APPROVED: R. H. Hayes
CHIEF, ENGINEERING DIVISION
APPROVED FOR:
DATE:

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 3 RELOCATION KY. 100

BARREN RIVER
BEARING DEVICES & EXPANSION DAM

APPROVED: David G. Carter
PROJECT, CORPS OF ENGINEERS, for DISTRICT ENGINEER
DATE: MAY 62
SCALE: As Noted
DRAWING NUMBER
BR 79-12.7/37

RECORD DRAWING-"AS BUILT"



PROBINGS				
NO	TOP ELEV	BOTT ELEV	DEPTH	REMARKS
P-1	6640	6623	17	REFUSAL
P-2	6581	6581	0.0	"
P-3	6613	6513	50	"
P-4	6591	6718	1.2	"
P-5	6718	6686	32	"
P-6	6245	6215	32	"
P-7	6755	6701	54	"
P-8	6218	6171	47	"
P-9	6617	6617	0.0	"
P-10	6623	6623	29	
P-11	6460	6460	0.0	
P-12	5711	5711	0.0	1.5' WATER BELOW BOT. RAMP
P-13	6655	6614	41	REFUSAL
P-14	5772	5665	107	"
P-21	6380	6374	06	"
P-22	6460	6354	06	"
P-23	6495	6476	02	"
P-24	6510	6510	ROCK	ROCK OUT CAVING
P-25	6732	6660	72	REFUSAL
P-26	6720	6720	ROCK	ROCK OUT CAVING
P-27	6855	6850	46	REFUSAL
P-28	6912	6855	57	"

ALLEN Co. DRAWING No. 17548 SHEET 7

SYMBOL	DESCRIPTION	DATE	APPROVAL
1	BORINGS CORRECTED (AMEND. NO. 2)	8 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
APPROVED: C. H. Hansen CHIEF, ENGINEERING DIVISION
APPROVED: David B. Carter for DISTRICT ENGINEER
DATE: MAR 62
APPROVED FOR:
DATE:

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
KENTUCKY
SECTION 3 RELOCATION KY. 100

BARREN RIVER
BORING LOGS - SHEET 1

SCALE: 1" = 5' Vert

DRAWING NUMBER
BR 79-12.7 / 30

RECORD DRAWING - "AS BUILT"