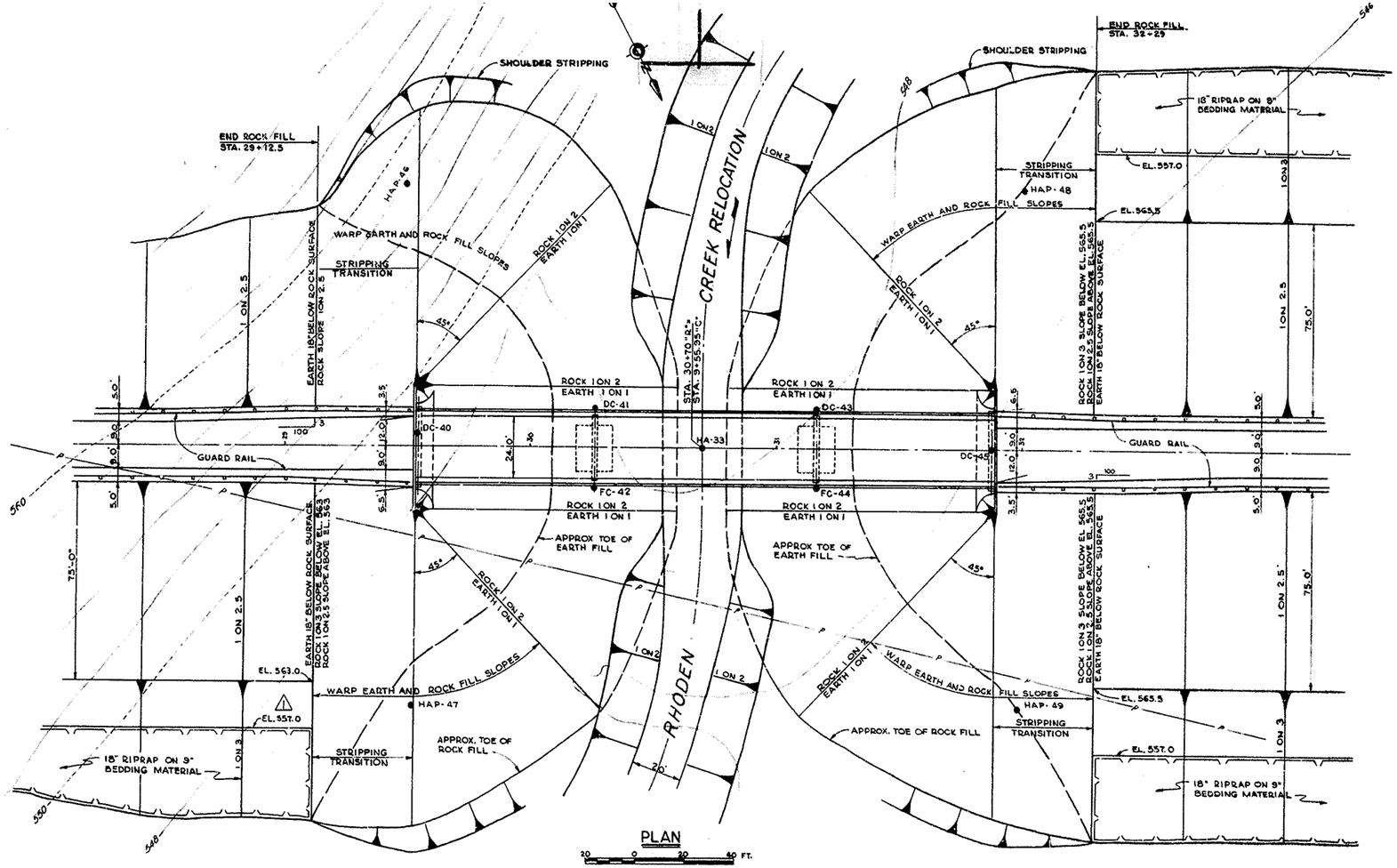
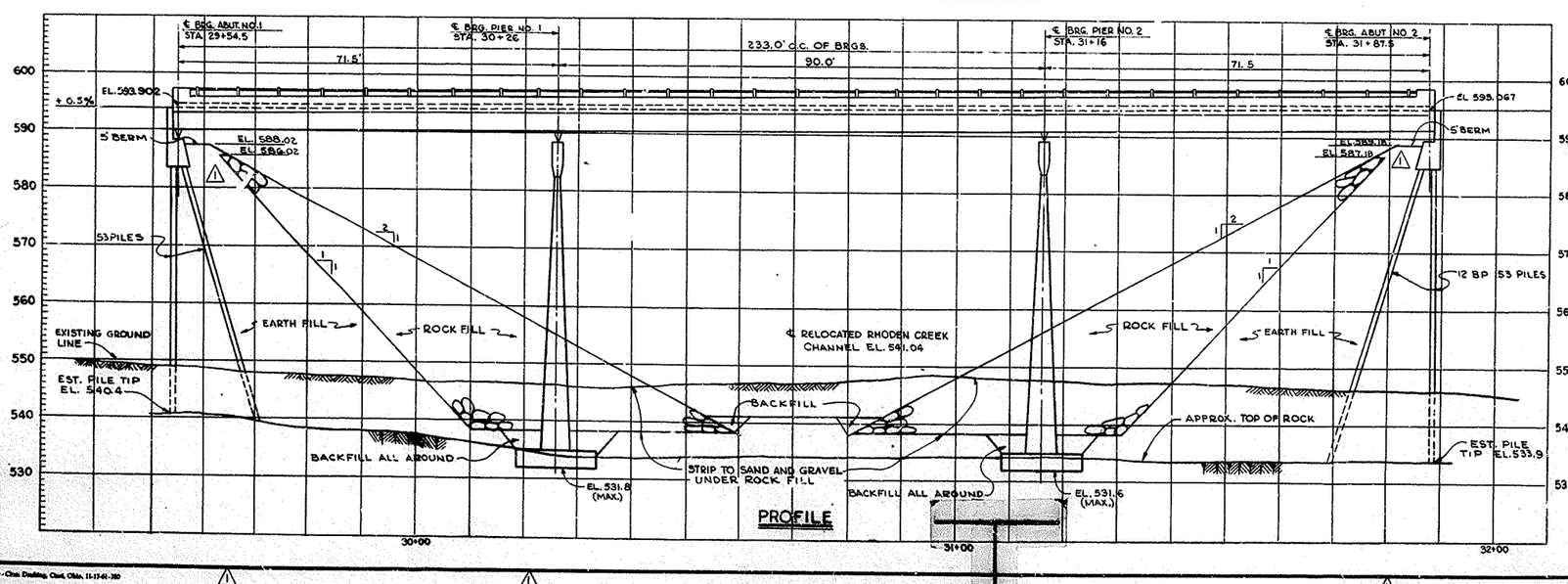




NOTES:
1. CONICAL TRANSITION FOR ROCK, PYRAMIDAL FOR EARTH.
2. FLARE SHOULDERS IN 50'
3. BORING SHOWN THUS: ⊕, FOR BORING LOGS - SEE SHTS. 7, 8, 9, 10 & 11

ALLEN Co. DRAWING No. 17552 SHEET 1 OF 6

REVISION	DATE	DESCRIPTION	
1	13 JULY 62	ELEVATION CHANGED, ELEVATIONS ADDED NOTES ADDED (AHDT. 7 & 8 DTD. 12 & 18 JUNE 1962)	G.C.B.

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

DESIGNED BY: W.E.R.
DRAWN BY: W.E.R.
TRACED BY: M.O.R.
CHECKED BY: S.F.F.
SUBMITTED: ASST. CHIEF, ENGINEERING DIV.
APPROVED: CHIEF, ENGINEERING DIVISION

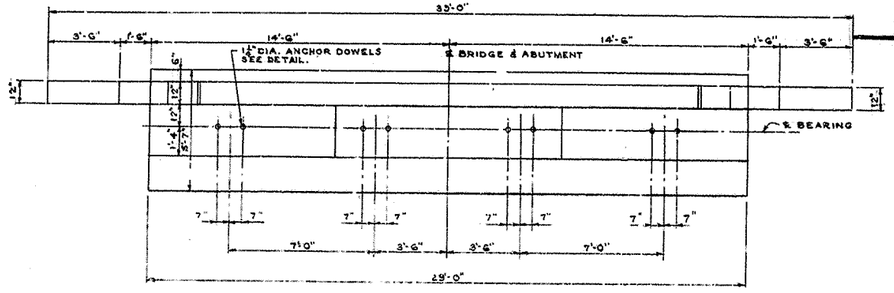
OHIO RIVER BASIN
BARREN RIVER RESERVOIR
SITE NO. 2 - RELOCATION STATE HWY. NO. 98

RHODEN CREEK BRIDGE
PLAN & PROFILE

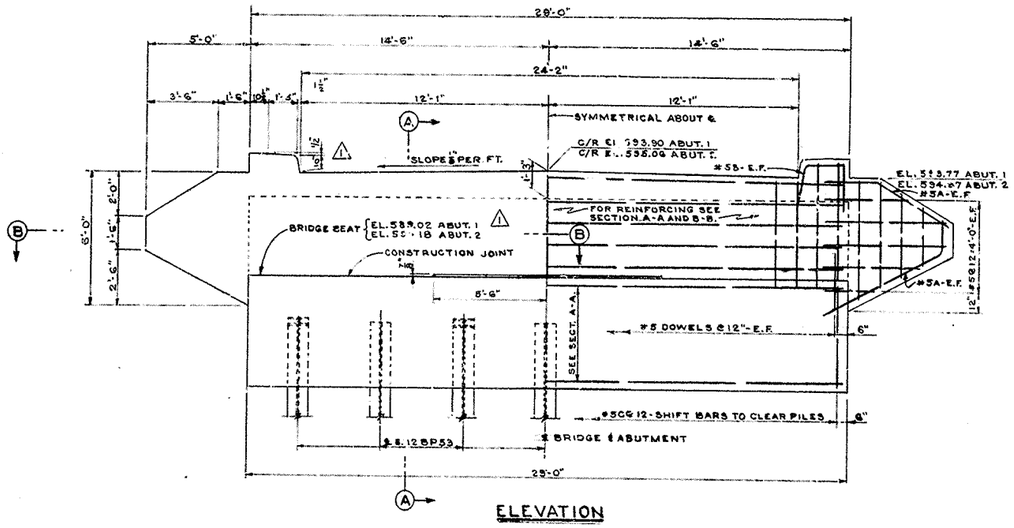
APPROVED: COL. CORPS OF ENGINEERS, DISTRICT ENGINEER
DATE:

RECORD DRAWING - AS BUILT

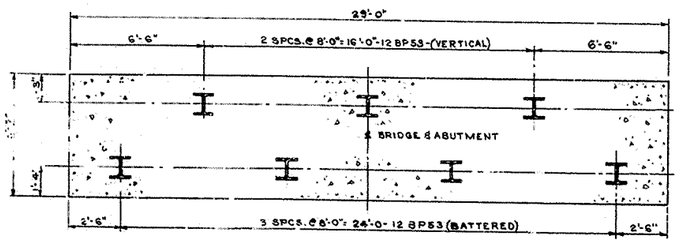
Army - Chas. Drafting, Chas. Ohio, 11-17-61-300



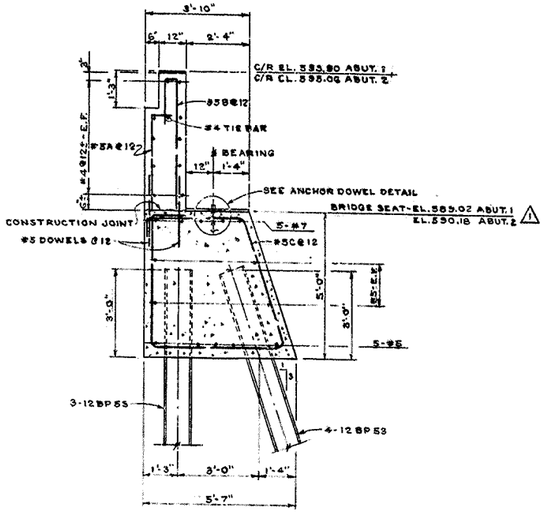
PLAN OF CAP



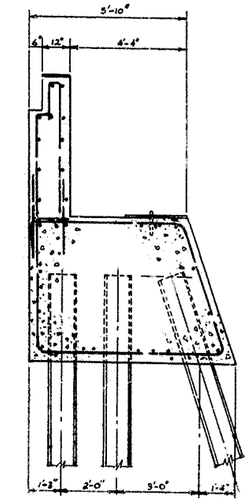
ELEVATION



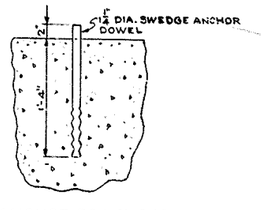
PLAN OF PILES



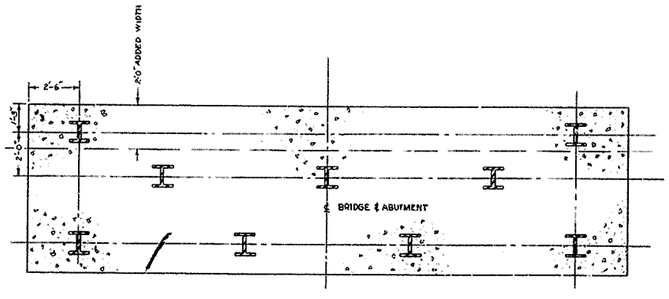
SECTION A-A
SCALE: 1/2"=1'-0"



AS BUILT ABUTMENT NO. 2
SCALE 1/2"-1'-0"



ANCHOR DOWEL DETAIL
SCALE: 1 1/2"=1'-0"



AS BUILT ABUTMENT NO. 2 ®
SCALE 3/8"=1'-0"

NOTES:
1. FOR REINFORCING NOTES & BAR BENDING SCHEDULE- SEE SH. 13
2. FOR GENERAL NOTES - SEE SH. 13.

® PLAN AND SECTION OF ABUTMENT NO. 2 ADDED ALLEN CO. DRAWING 17552 SHEET 2

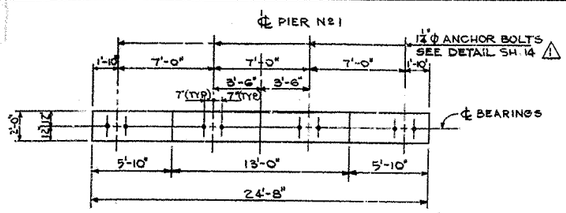
REVISION	DATE	DESCRIPTION	BY
1	13 JULY 62	DWG. NO. CHANGED, ELEVS. CHANGED, DIMENSIONS ADDED (AMDT. #1, OTD 11 MAR 62)	G.C.B.

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

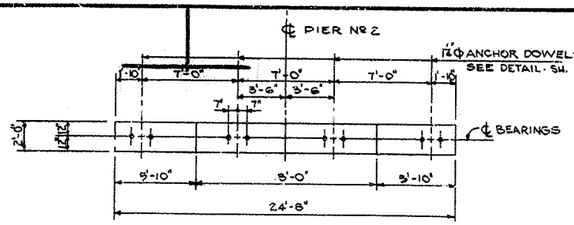
DESIGNED BY: R.T.T.	OHIO RIVER BASIN
DRAWN BY: E.R.S.	BARREN RIVER RESERVOIR
TRACED BY: E.R.S.	SITE NO. 2 - RELOCATION STATE HWY. NO. 98
CHECKED BY: SFF	RHODEN CREEK BRIDGE ABUTMENTS
SUBMITTED: Asst. Chief, Engineering Div.	APPROVED: DATE:
APPROVED:	

RECORD DRAWING-"AS BUILT"

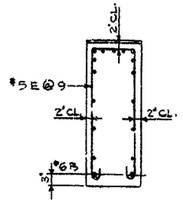
Army - Chief Drafting, Chief, Ohio, 11-17-61-200



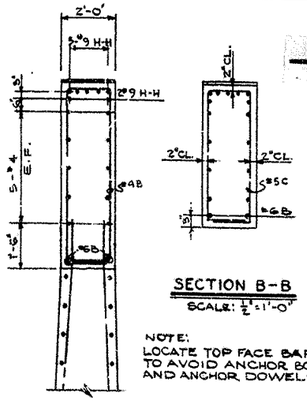
PLAN



PLAN



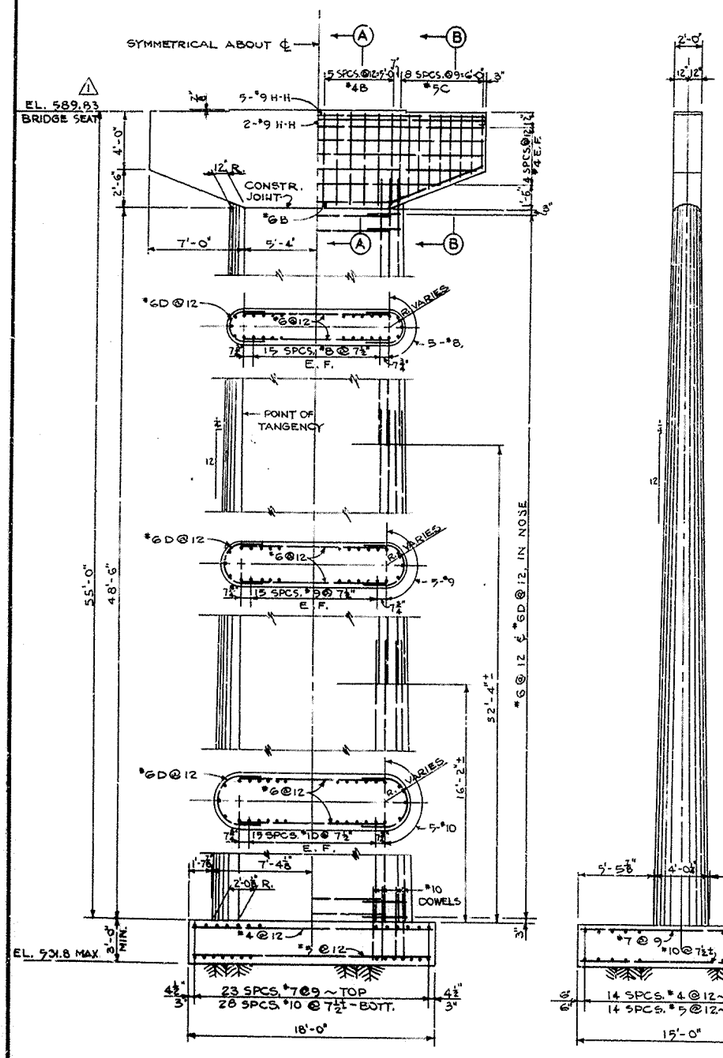
SECTION C-C
SCALE: ½"=1'-0"



SECTION B-B
SCALE: ½"=1'-0"

NOTE:
LOCATE TOP FACE BARS TO AVOID ANCHOR BOLTS AND ANCHOR DOWELS

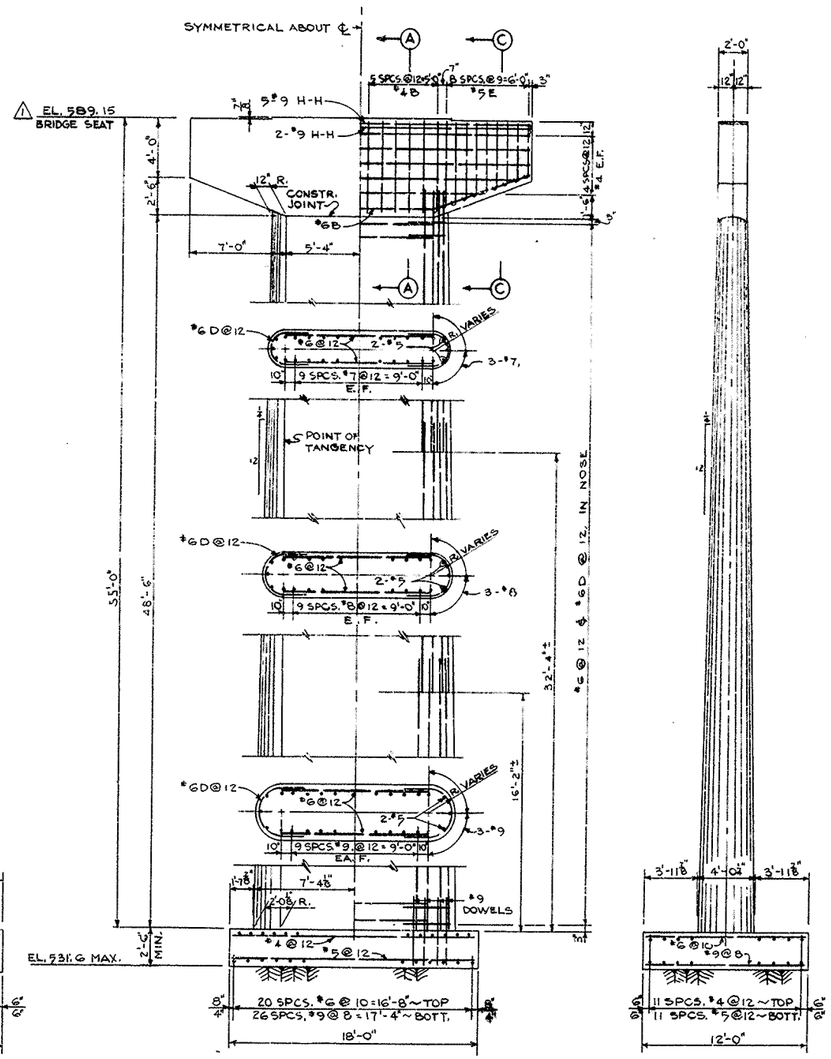
SECTION A-A
SCALE: ½"=1'-0"



SIDE ELEVATION

END ELEVATION

PIER NO. 1
SCALE: ¼"=1'-0"



SIDE ELEVATION

END ELEVATION

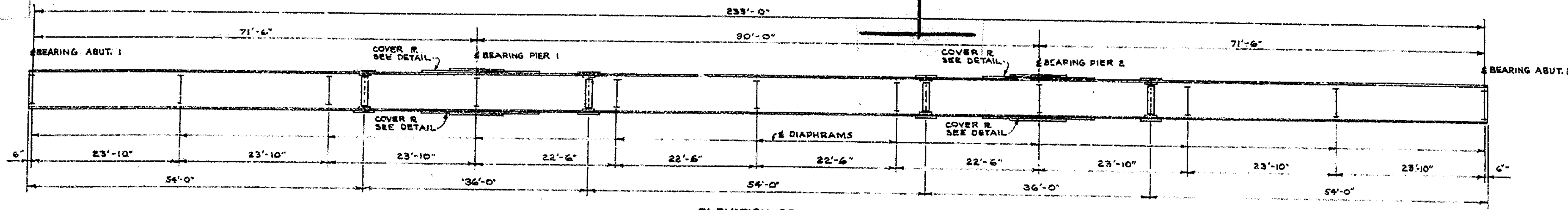
PIER NO. 2
SCALE: ¼"=1'-0"

ALLEN Co.	DRAWING No. 17352	SHEET 3	
⚠	3 JULY 92	DWG. NO CHANGED, ELEVATIONS CHANGED, SHEET REFERENCE ADDED. (AMDT. # 1, DTD. 14 JUNE '92)	G.C.B.
REVISION	DATE	DESCRIPTION	BY

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

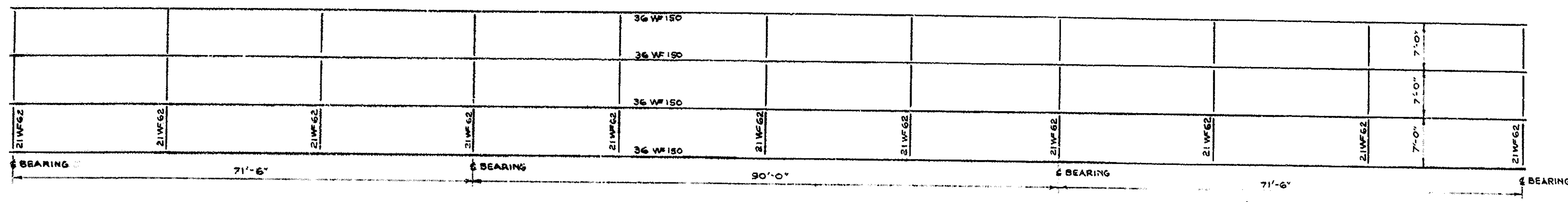
DESIGNED BY: R.T.T.	OHIO RIVER BASIN
DRAWN BY: V.H.P.	BARREN RIVER RESERVOIR
TRACED BY: ——	SITE NO. 2 - RELOCATION STATE HWY. NO. 98
CHECKED BY: S.F.F.	RHODEN CREEK BRIDGE
SUBMITTED: R.E. Karlen, ASST. CHIEF, ENGINEERING DIV.	PIERS
APPROVED:	APPROVED: DATE:
DATE:	BR-79-12.67/20

RECORD DRAWING-"AS BUILT"



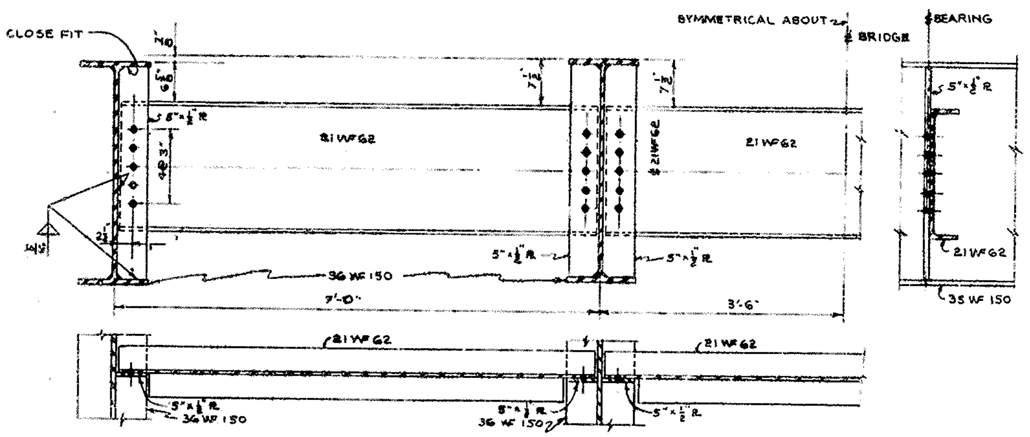
ELEVATION OF BEAMS

SCALE: HORIZ.: $\frac{1}{8}$" = 1'-0" VERT.: $\frac{1}{4}$" = 1'-0"



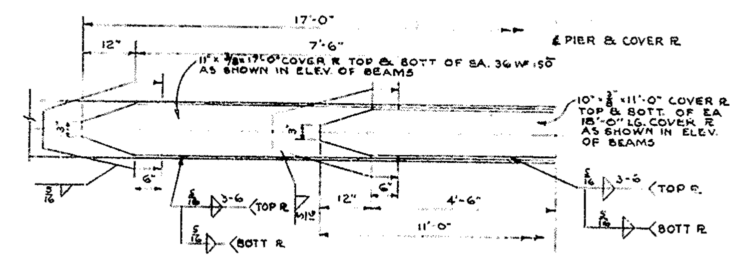
PLAN OF BEAMS

SCALE: $\frac{1}{8}$" = 1'-0"



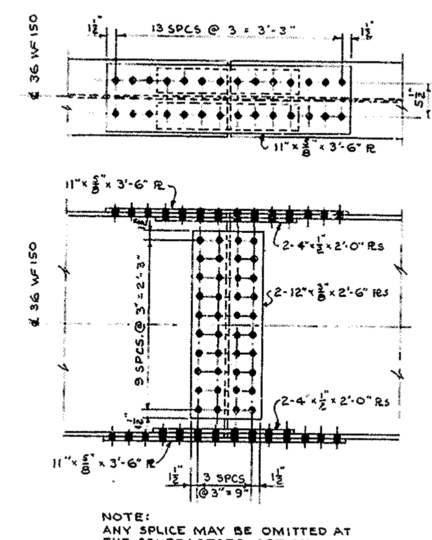
DIAPHRAM OVER PIERS 1 & 2

SCALE: 1" = 1'-0"



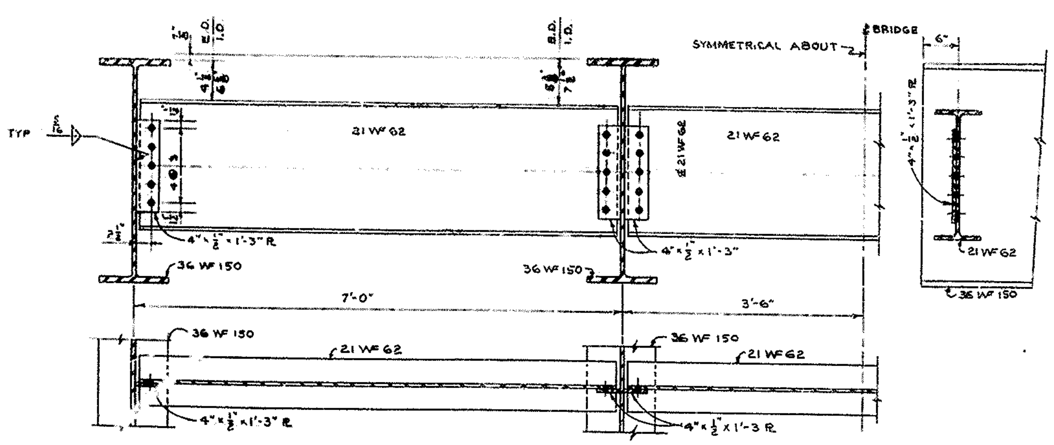
COVER PLATES

SCALE: $\frac{3}{4}$" = 1'-0"



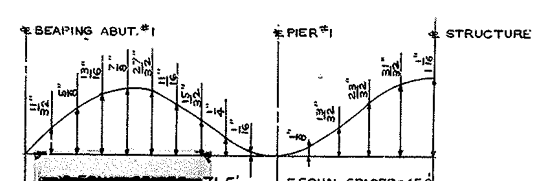
SPLICE DETAIL

SCALE: 1" = 1'-0"



END & INTERMEDIATE DIAPHRAMS

SCALE: 1" = 1'-0"



CAMBER DIAGRAM
TOTAL DEAD LOAD

NOTES:

1. OPEN HOLES $\frac{15}{16}$" φ, FOR $\frac{7}{8}$" φ HIGH STRENGTH BOLTS OR RIVETS
2. MATERIAL: BEAMS & COVER ℞S ASTM-A-36 REMAINDER - ASTM-A7.
3. FOR EXPANSION JOINT DETAILS, SEE SH. 23
4. FOR BEARING DETAILS, SEE SH. 23
5. BEAMS TO BE FABRICATED & ERECTED WITH THE NATURAL CAMBER OF BEAM UP.
6. TOTAL DEAD LOAD INCLUDES CONC. DECK, HANDRAIL, FUTURE SURFACING & STRUCT. ST.

ALLEN Co. DRAWING No. 17552 SHEET 4

REVISION	DATE	DESCRIPTION	BY

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

DESIGNED BY:
DRAWN BY: T.F.M.
TRACED BY:
CHECKED BY: SFF
SUBMITTED:
ASST. CHIEF, ENGINEERING DIV.
APPROVED:

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
SITE NO.2 - RELOCATION STATE HWY. NO.98

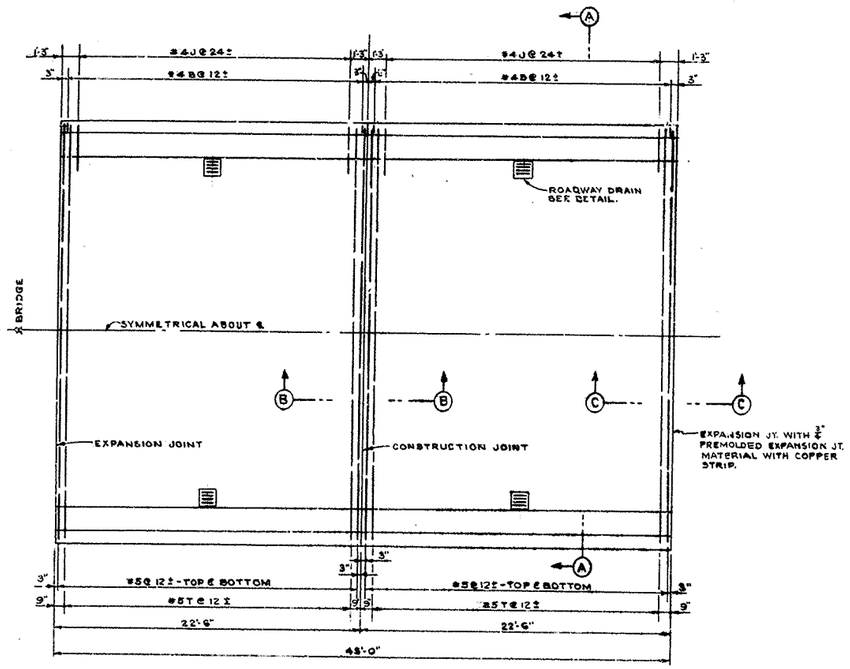
RHODEN CREEK BRIDGE
FRAMING

APPROVED: DATE:

[redacted]

DATE:

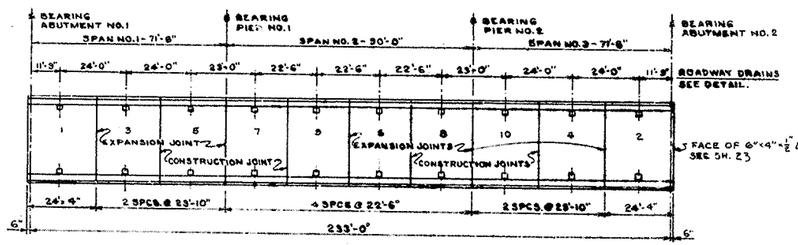
RECORD DRAWING-"AS BUILT"



HALF PLAN-SPAN NO.2 ⚠

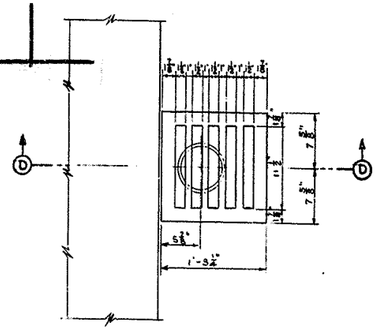
REINFORCING TYPICAL FOR ALL SPANS

SCALE: ¼" = 1'-0"

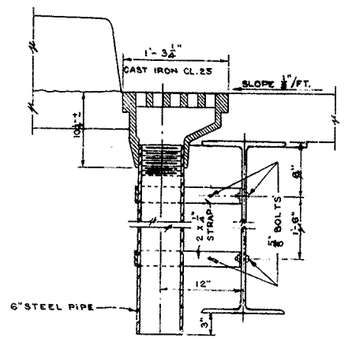


DRAINAGE PLAN & ORDER OF SLAB POURING

SCALE: 1" = 20'



PLAN



SECTION D-D
DETAIL OF ROADWAY DRAIN

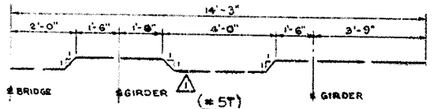
SCALE: 1" = 1'-0" ⚠

SCREED ELEVATION TABLE

	STATION	PROFILE EL.	CONST. EL. "A" OR "D"	BEAM "A" TOP OF STEEL	BEAM "A" "X"	BEAM "D" TOP OF STEEL	BEAM "D" "X"	CONST. EL. "B" OR "C"	BEAM "B" TOP OF STEEL	BEAM "B" "X"	BEAM "C" TOP OF STEEL	BEAM "C" "X"
℄BRG.ABUT NO.1	29+54.50	593.8975	593.7881					593.8610				
	29+61.65	593.9333	593.8464					593.9229				
	29+68.80	593.9690	593.9009					593.9738				
	29+75.95	594.0048	593.9492					594.0221				
	29+83.10	594.0405	593.9896					594.0625				
	29+90.25	594.0763	594.0223					594.0982				
	29+97.40	594.1120	594.0480					594.1209				
	30+04.55	594.1478	594.0696					594.1423				
	30+11.70	594.1835	594.0897					594.1626				
	30+18.86	594.2193	594.1140					594.1849				
℄BRG.PIER NO.1	30+26.00	594.2550	594.1456					594.2185				
	30+35.0	594.3000	594.1984					594.2718				
	30+44.0	594.3450	594.2670					594.3349				
	30+53.0	594.3900	594.3280					594.4009				
	30+62.0	594.4350	594.3887					594.4616				
	30+71.0	594.4800	594.4395					594.5124				
	30+80.0	594.5250	594.4787					594.5516				
	30+89.0	594.5700	594.5080					594.5806				
	30+98.0	594.6150	594.5320					594.6049				
	31+07.0	594.6600	594.5584					594.6313				
℄BRG.PIER NO.2	31+16.0	594.7050	594.5956					594.6685				
	31+23.15	594.7408	594.6355					594.7084				
	31+30.30	594.7765	594.6827					594.7556				
	31+37.48	594.8123	594.7339					594.8048				
	31+44.60	594.8480	594.7840					594.8569				
	31+51.75	594.8838	594.8298					594.9027				
	31+58.90	594.9195	594.8686					594.9415				
	31+66.05	594.9553	594.8997					594.9726				
	31+73.20	594.9910	594.9229					594.9958				
	31+80.35	595.0268	594.9399					595.0128				
℄BRG.ABUT NO.2	31+87.50	595.0625	594.9551					595.0260				

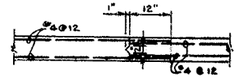
NOTE:
SCREED ELEVATIONS: SEE SECTION A-A, THIS SHEET, FOR MEANING OF "A" AND BEAM LETTERS. TO OBTAIN "X" TAKE ELEVATIONS ON TOP OF STEEL ON POINTS INDICATED AFTER ALL STEEL IS ERECTED, BUT BEFORE DECK FORMS ARE PLACED. ENTER THESE ELEVATIONS IN TABLE AND SUBTRACT FROM CONST. EL. SET TEMPLATES BY MEASURING "X" ABOVE TOP OF STEEL. DO NOT SET TEMPLATES BY ELEVATIONS.

NOTE:
FOR REINFORCING STEEL COVERAGE NOTES AND BAR BENDING SCHEDULE SEE SH. 13.



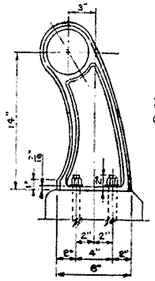
TRUSS BAR

SCALE: NONE

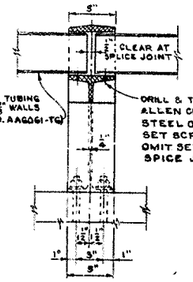


CONSTRUCTION JOINT
SECTION B-B

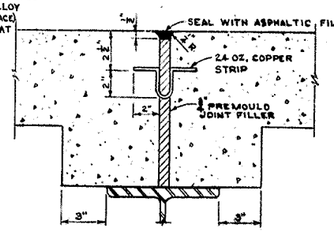
SCALE: ½" = 1'-0"



SIDE ELEVATION

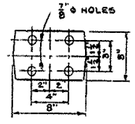


SECTIONAL ELEVATION



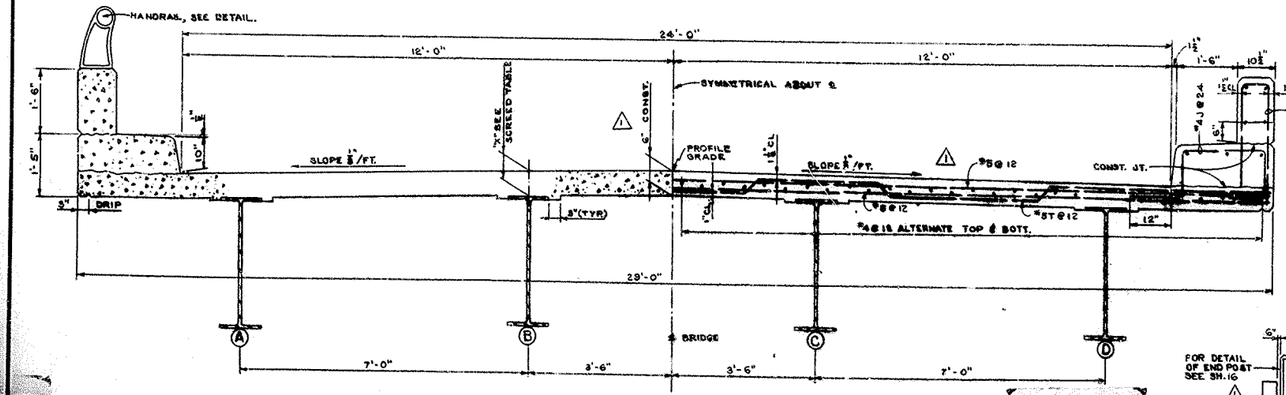
SECTION C-C

SCALE: 3"=1'-0"



BASE PLAN

NOTES:
1. EXCEPT AS NOTED, ALL SECTIONS ⅜" THICK.
2. POST ALUMINUM CASTING SG-708-T61.

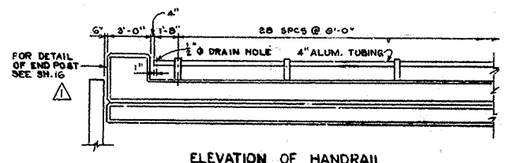


SECTION A-A

SCALE: ½" = 1'-0"

HANDRAIL

SCALE: 2"=1'-0"



ELEVATION OF HANDRAIL

SCALE: ½" = 1'-0"

ALLEN CO. DRAWING NO. 17552 SHEET 5

REVISION	DATE	DESCRIPTION	BY
⚠	3 OCT 62	ROADWAY DRAIN REVISED (CONTRACT MOD.)	G.L.L.
⚠	13 JULY 62	RELIN. STEEL, DIMENSION & NOTES CHANGED. (MOD. #1, DTD. 14 JUNE 1962)	G.C.B.

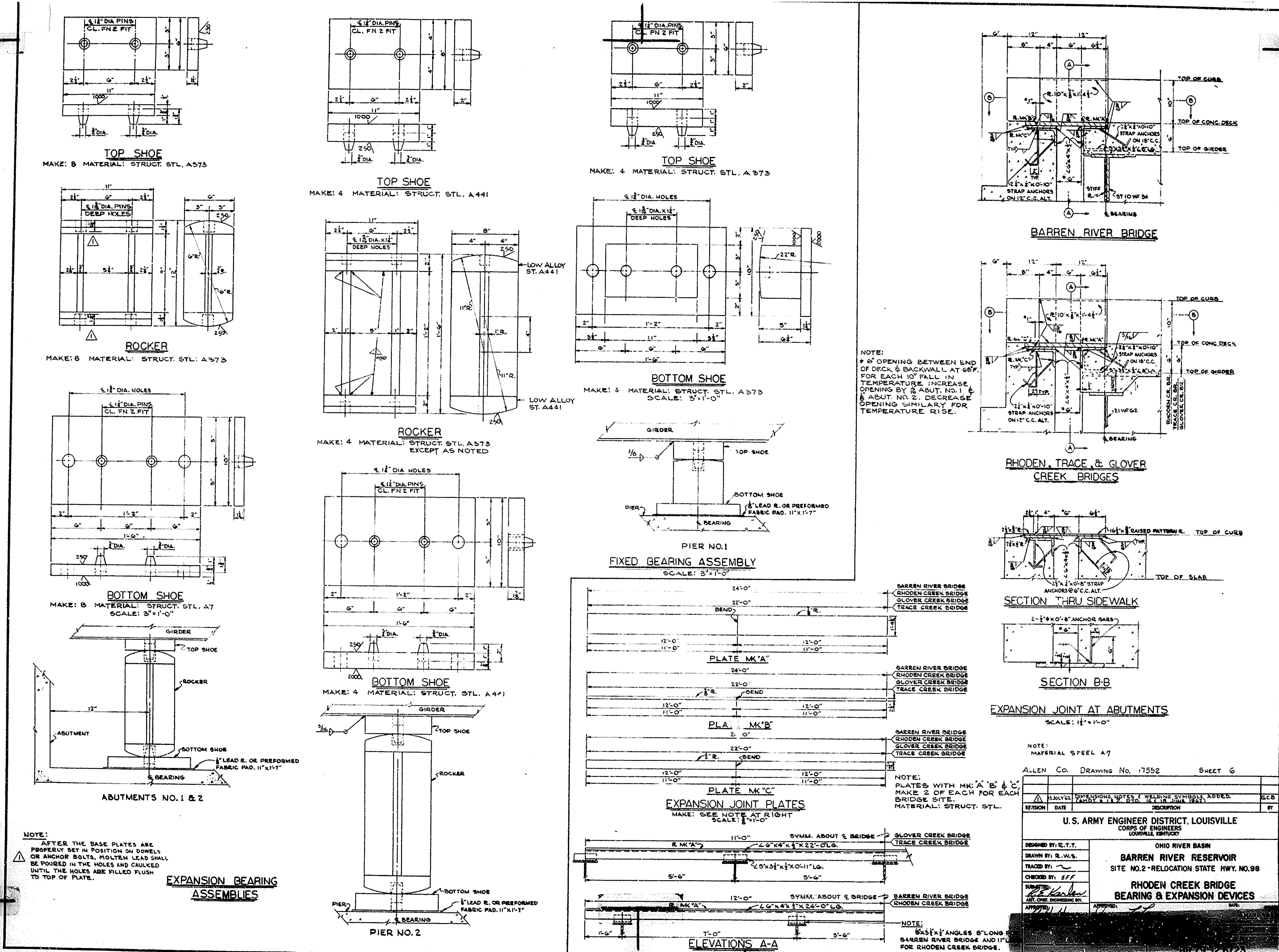
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DESIGNED BY:
DRAWN BY: E.P.B.
TRACED BY: E.P.B.
CHECKED BY: SFF
SUBMITTED:
CHIEF, ENGINEERING BRANCH
APPROVED:
CHIEF, ENGINEERING DIVISION

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
SITE NO.2-RELOCATION STATE HWY NO 98
RHODEN CREEK BRIDGE
DECK PLAN

RECORD DRAWING-"AS BUILT"

Army - Cincinnati, Ohio, 11-15-61-200



TOP SHOE
MAKE: 8 MATERIAL: STRUCT. STL. A373
ROCKER
MAKE: 8 MATERIAL: STRUCT. STL. A373
BOTTOM SHOE
MAKE: 8 MATERIAL: STRUCT. STL. A7
SCALE: 3"=1'-0"
GIRDER
TOP SHOE
ROCKER
ABUTMENT
BOTTOM SHOE
1/8" LEAD PL. OR PREFORMED FABRIC PAD. 11"x1'-7"
℄ BEARING
ABUTMENTS NO. 1 & 2
NOTE:
AFTER THE BASE PLATES ARE PROPERLY SET IN POSITION ON DOWELS OR ANCHOR BOLTS, MOLTEN LEAD SHALL BE POURED IN THE HOLES AND CAULKED UNTIL THE HOLES ARE FILLED FLUSH TO TOP OF PLATE.
EXPANSION BEARING ASSEMBLIES
TOP SHOE
MAKE: 4 MATERIAL: STRUCT. STL. A441
ROCKER
MAKE: 4 MATERIAL: STRUCT. STL. A373 EXCEPT AS NOTED
LOW ALLOY ST. A441
BOTTOM SHOE
MAKE: 4 MATERIAL: STRUCT. STL. A441
PIER NO. 2
TOP SHOE
MAKE: 4 MATERIAL: STRUCT. STL. A373
BOTTOM SHOE
MAKE: 4 MATERIAL: STRUCT. STL. A373
SCALE: 3"=1'-0"
PIER NO. 1
FIXED BEARING ASSEMBLY
SCALE: 3"=1'-0"
BARREN RIVER BRIDGE
TOP OF CURB
TOP OF CONC. DECK
TOP OF GIRDER
NOTE:
6" OPENING BETWEEN END OF DECK & BACKWALL AT 68°F. FOR EACH 10° FALL IN TEMPERATURE INCREASE OPENING BY 1/16 ABUT. NO. 1 & 1/8 ABUT. NO. 2. DECREASE OPENING SIMILARY FOR TEMPERATURE RISE.
RHODEN, TRACE, & GLOVER CREEK BRIDGES
SECTION THRU SIDEWALK
SECTION B-B
EXPANSION JOINT AT ABUTMENTS
SCALE: 1 1/2"=1'-0"
NOTE:
MATERIAL STEEL A7
BARREN RIVER BRIDGE
RHODEN CREEK BRIDGE
GLOVER CREEK BRIDGE
TRACE CREEK BRIDGE
PLATE MK"A"
PLATE MK"B"
PLATE MK"C"
EXPANSION JOINT PLATES
MAKE: SEE NOTE AT RIGHT
SCALE: 3/8"=1'-0"
NOTE:
PLATES WITH MK: "A" "B" & "C" MAKE 2 OF EACH FOR EACH BRIDGE SITE.
MATERIAL: STRUCT. STL.
SYMM. ABOUT ℄ BRIDGE
ELEVATIONS A-A
SCALE: 3/8"=1'-0"

ALLEN CO. DRAWING No. 17552 SHEET 6

REVISION	DATE	DESCRIPTION	BY
△	13 JULY 62	DIMENSIONS, NOTES & WELDING SYMBOLS ADDED.	G.C.B

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

DESIGNED BY: R.T.T.
DRAWN BY: R.W.S.
TRACED BY:
CHECKED BY: SFF
SUBMITTED:
ASST. CHIEF, ENGINEERING DIV.
APPROVED: [redacted]

OHIO RIVER BASIN
BARREN RIVER RESERVOIR
SITE NO. 2 - RELOCATION STATE HWY. NO. 98
RHODEN CREEK BRIDGE
BEARING & EXPANSION DEVICES

RECORD DRAWING-"AS BUILT"