

MICROFILMED-70

COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

SUBSECTION OF CONTRACT BOP2-5 SPI6-406-9
16-406-9B1 CONSTRUCTION OF PIERS FOR GREEN RIVER BRIDGE
AT STA. 2667+35.

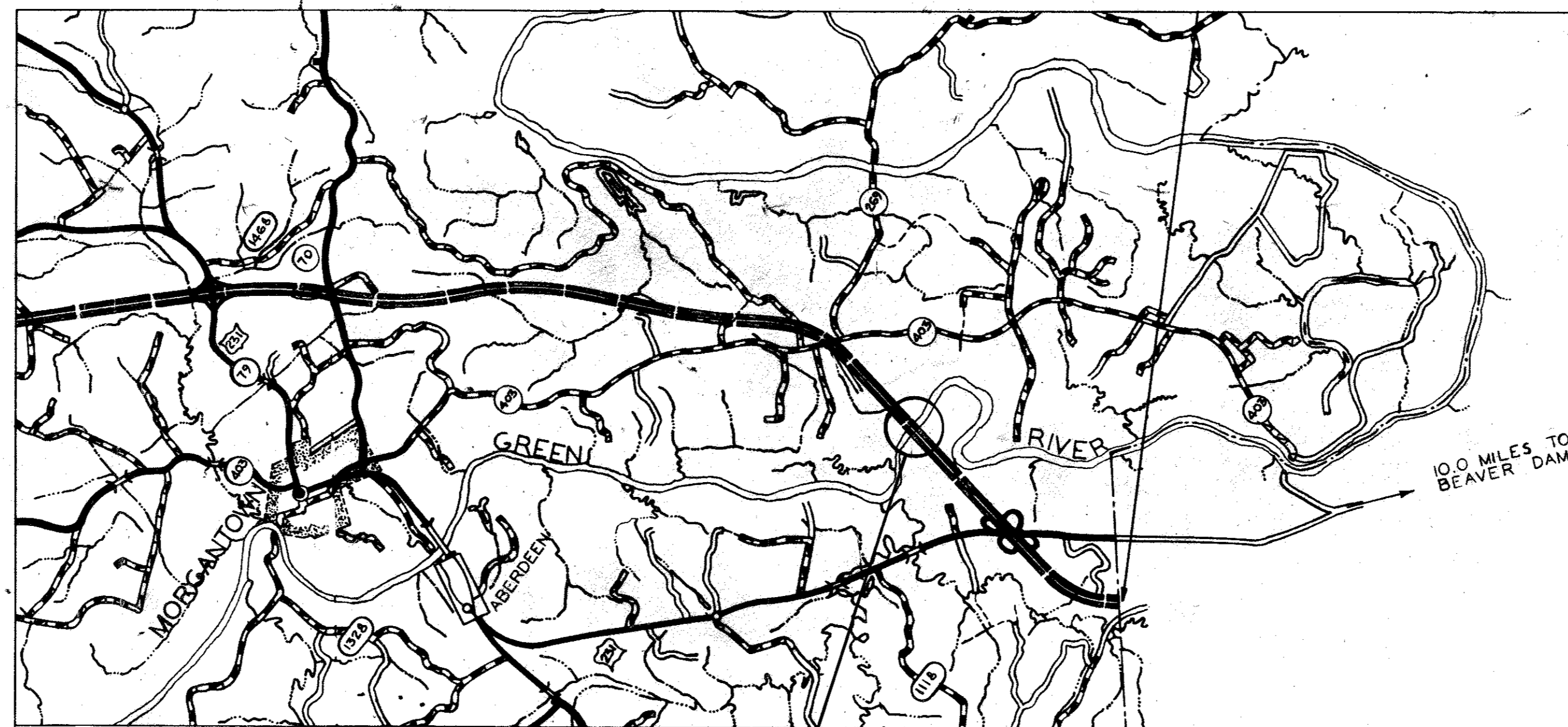
BUTLER COUNTY
BOP 2-5
BRIDGE OVER GREEN RIVER
PIERS

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
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SENT FOR FEDERAL APPROVAL
RECORD PLANS
CONSTRUCTION PLANS

REVIEWED BY
DIVISION OF CONSTRUCTION

PLANS TRACED BY
PLANS CHECKED BY
FINAL CHECK BY



THIS PROJECT IS A FULLY
CONTROLLED ACCESS HIGHWAY

DESIGN CRITERIA

CLASS OF HIGHWAY	-----	SPECIAL
TYPE OF TERRAIN	-----	ROLLING
DESIGN SPEED	-----	70 M.P.H.

DESIGN DESIGNATION

ADT (1968)	-----	750
ADT (1992)	-----	2300
DHV (1992)	-----	340
D	-----	60
T	-----	12

CONTROL OF ACCESS	-----	FULLY CONTROLLED
MAXIMUM GRADE	-----	±3%
MAX. DEGREE CURVES	-----	3°00'

BRIDGE OVER GREEN RIVER

BEGIN PROJECT	STA. 2654+42
END PROJECT	STA. 2660+36

GRAPHIC SCALE IN MILES

LAYOUT MAP

GROSS LENGTH		FOR EQUALITIES		NET LENGTH		GROSS LENGTH		FOR EQUALITIES		NET LENGTH		GROSS LENGTH		FOR EQUALITIES		NET LENGTH		
LINEAL FEET	MILES	ADDED	DEDUCTED	LINEAL FEET	MILES	ADDED	DEDUCTED	LINEAL FEET	MILES	ADDED	DEDUCTED	LINEAL FEET	MILES	ADDED	DEDUCTED	LINEAL FEET	MILES	

*As-Built Plans
April - 1973
JW.*

CONVENTIONAL SIGNS

UNIMPROVED ROAD	
GRADE AND DRAINED ROAD	
SOIL SURFACE ROAD	
METAL SURFACE ROAD	
LOW TYPE BITUMINOUS ROAD	
PAVED ROAD	
COUNTY LINE	
CORPORATE LIMITS	
SURVEY LINE	
PROPOSED RIGHT OF WAY	
GRADE LINE	
GROUND LINE	
TRAVELED WAY	
RAILROAD	
FENCES (EXCEPT STONE & HEDGE)	
STONE FENCE	
HEDGE FENCE	
TREES & STUMPS	
PIPE LINE	
TELEPHONE POLES	
PIPE CULVERT	
CONCRETE CULVERT & BRIDGE	
LARGE STREAM	
SMALL STREAM	
BENCH MARKS	
ROAD INTERSECTIONS	
MARSH	
BUILDINGS	

BOP 2-5

SHEET 1 OF 14

KENTUCKY
DEPARTMENT OF HIGHWAYS
COUNTY OF
BUTLER
BOWLING GREEN-OWENSBORO
PARKWAY
ROAD

STATE PROJECT No. S.P. 16-406-9 DATE 1969

SURVEYED BY 19 BY J. T. Anderson CHIEF OF PARTY

APPROVED 12-17-69 BY J. T. Anderson ASSISTANT STATE HIGHWAY ENGINEER

PLAN CHECKED BY 19 BY CHIEF DRAFTSMAN

SURVEY AND PLAN APPROVED 12/17/69 BY Charles B. Cook DIRECTOR DIVISION OF BRIDGES

SURVEY AND PLAN APPROVED 12/17/69 BY A. O. Heiser STATE HIGHWAY ENGINEER

LETTING DATE 10-9-70

DRAWING NO. 17774

KENTUCKY DEPARTMENT OF HIGHWAYS

BULTER COUNTY

BOWLING GREEN - OWENSBORO PARKWAY

OVER GREEN RIVER

REFERENCES AND ESTIMATE OF QUANTITIES FOR PIERS 1 AND 2											
ITEM	SHEET NO.	CONCRETE CLASS "A" cu. yds.	STEEL REINFORCEMENT lbs.	STRUCTURE EXCAVATION		COFFERDAM PIER 1&2 lump sum	PAINTING CLEARANCE GAGES lump sum	STYRENE BUTADIENE PROTECTIVE COATING PALS.	CLEARING AND GRUBBING acres	DRY CYCLOPEM STONE RIP RAP cu. yds.	RIGHT-OF-WAY FENCE L.F.
				COMMON cu. yds.	SOLID/ROCK cu. yds.						
PROJECT LAYOUT SHEET	1										
TITLE & QUANTITIES	2										
CONSTRUCTION PERMIT INFORMATION	3										
NOTE SHEET	4										
LAYOUT SHEET	5										
PIER 1	6, 7	1569.5	151278	3510	295/146.0			2.25			
PIER 2	8, 9	1569.5	150856	3885	205/113.1			2.25			
SOUNDINGS	10, 11	1005.0	129173								
TOTALS PIER 1 & PIER 2		3139.0	317710	7405	580	lump sum	lump sum	4	3.1	155	389

* ADDED BY CHANGE ORDER #3

REFERENCES

SPECIAL PROVISIONS

- Special Provision No. 15 Relating to Bid Proposal Guaranty and Contract Bonds
- Special Provision No. 30-B for Membrane Curing of Concrete Structures
- Special Provision No. 46-C Water Pollution Controls
- Special Provision No. 75 A for Operation of Construction Vehicles over Pavements and Structures
- Special Provision No. 77-B Styrene Butadiene Protective Coating

DESIGNED BY: *[Signature]* DATE: _____
 CHECKED BY: *[Signature]* DATE: _____
 TRACED BY: *[Signature]* DATE: _____
 REVISED: _____
 PLANS PREPARED BY: J. R. KING DESIGN SECTION
 LETTING DATE: _____

BRIDGE OVER GREEN RIVER.		SHEET 2
COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS FRANKFORT COUNTY OF BUTLER		
BOWLING GREEN-OWENSBORO PARKWAY ROAD		
STATION 2657+35 ⁰⁰	P. E. PROJECT NO.	
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
BOP 2-5		17774

LETTING DATE



DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD

Address reply to:
COMMANDANT (0-1)
Second Coast Guard District
Federal Bldg.
1520 Market St.
St. Louis, Mo. 63103
3271

Mr. A. O. Neiser, State Highway Engineer
Commonwealth of Kentucky
Department of Highways
Frankfort, Kentucky 40601

6 AUG 1969

Re: Butler County, Kentucky
BOP 112
Bowling Green - Owensboro Parkway
over Green River, Mile 136.5,
near Logansport, Kentucky

Dear Mr. Neiser:

Your application dated 24 March 1969 requesting approval of the location and plans for the above referenced proposed bridge has been approved by the Commandant, U. S. Coast Guard, Washington, D. C. The instrument of approval, Bridge Permit No. 134-69 dated 25 July 1969, is enclosed.

The office should be kept informed concerning the status of the construction of the proposed bridge. Please furnish the starting and completion dates as soon as they are available. Upon completion of the work furnish a certification as to whether or not the bridge was constructed in accordance with the approved plans and conditions in the Permit. It would be appreciated, also, if you will furnish us two 8 X 10-inch black and white glossy photographs of the completed structure showing the bridge from abutment to abutment.

The plans for any temporary structures in the water used in building the bridge should be submitted to this office for approval and prescribing temporary navigation lights.

You will not be required to install vertical clearance gauges on the bridge at the present time. Should the type of vessels using this reach of the river change, this matter will be reconsidered.

Your attention is invited to Condition No. 3 in the Permit requiring your compliance with the provisions of any law or regulation under the jurisdiction of the Federal Water Pollution Control Administration, Ohio Basin Region. A copy of a letter dated 6 June 1969 from that agency, outlining their requirements, is enclosed for your information.

The following permanent navigation lighting for the bridge is hereby prescribed in accordance with Title 33, Code of Federal Regulations, § 68.15-1:

The center of the navigation span shall be marked by a range of two green lights. Each green light shall show through a horizontal arc of 360° and shall be securely mounted just below the outermost edge of the bridge in line with the axis of the channel.

Each margin of the navigation channel shall be marked by two red lights. Each red light shall show through a horizontal arc of 180° and shall be securely mounted just below the outermost edge of the bridge directly above the extremities of the 200-foot navigation channel. Each red light shall show 90° on either side of a line parallel to the axis of the channel so as to be visible from an approaching vessel.

All lights prescribed herein shall be displayed from sunset to sunrise each night of the year and at other times when the visibility is less than one mile. They shall be of sufficient candlepower as to be visible against a background lighting at a distance of at least 2,000 yards 90% of the nights of the year.

Responsibility of the owner does not cease upon installation of the prescribed lights. A thorough program of inspection and maintenance is necessary to insure that the lights are properly displayed.

A marked-up copy of Sheet 2 of 2 of your permit drawings showing the approved navigation lighting is enclosed. Please notify us when the lighting has been installed and placed in operation. Your cooperation will be appreciated.

Very truly yours,

C. W. FAIRCLOTH
Commander, U. S. Coast Guard
Chief, Aids to Navigation Branch
By direction of the District Commander

Encl: (1) Bridge Permit No. 134-69 dtd 25 Jul 69
(2) Copy of ltr dtd 6 Jun 69 from FWPCA, Ohio Basin Region
(3) Marked-up permit dwg, Sheet 2 of 2



DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD

BRIDGE PERMIT
(134-69)

Address reply to:
COMMANDANT
U. S. COAST GUARD
WASHINGTON, D. C.
20591

25 JUL 1969

WHEREAS by Title V of an act of Congress approved August 2, 1946, entitled General Bridge Act of 1946, as amended (33 U.S.C. 525-533), the consent of Congress was granted for the construction, maintenance, and operation of bridges and approaches thereto over the navigable waters of the United States;

AND WHEREAS under Section 502(b) of said act as transferred to and vested in the Secretary of Transportation by Section 6(g)(6)(C) of the Department of Transportation Act (80 Stat. 931) and delegated by the Secretary to the Commandant, U. S. Coast Guard in Title 49 Code of Federal Regulations, Part 1, it is required that the location and plans for such bridges be approved by the Commandant before construction is commenced and in approving the location and plans of any such bridge, the Commandant may impose any specific conditions relating to the maintenance and operation of the structure which he deems necessary in the interest of public navigation, such conditions to have the force of law;

AND WHEREAS the COMMONWEALTH OF KENTUCKY - has submitted plans and a map of location of a bridge to be constructed across the GREEN RIVER near Logansport, Kentucky;

NOW THEREFORE, This is to certify that the location and plans dated 17 March 1969 are hereby approved by the Commandant, subject to the following conditions:

1. No deviation from the approved plans shall be made either before or after completion of the structure unless the modification of said plans has previously been submitted to and received the approval of the Commandant.

2. All work shall be so conducted that the free navigation of the waterway is not unreasonably interfered with and the present navigable depths are not impaired. The construction of falsework, pilings or other obstructions, if required, shall be accomplished in accordance with plans submitted to and approved by the Commandant, Second Coast Guard District prior to construction of the bridge. The channel or channels through the structure shall be promptly cleared of all obstructions placed therein or caused by the construction of the bridge to the satisfaction of the District Commander, when in his judgment the construction work has reached a point where such action should be taken, and in any case not later than ninety days after the bridge has been opened to traffic.

3. Issuance of this permit does not relieve the permittee of the obligation or responsibility for compliance with the provisions of any other law or regulation under the jurisdiction of the Federal Water Pollution

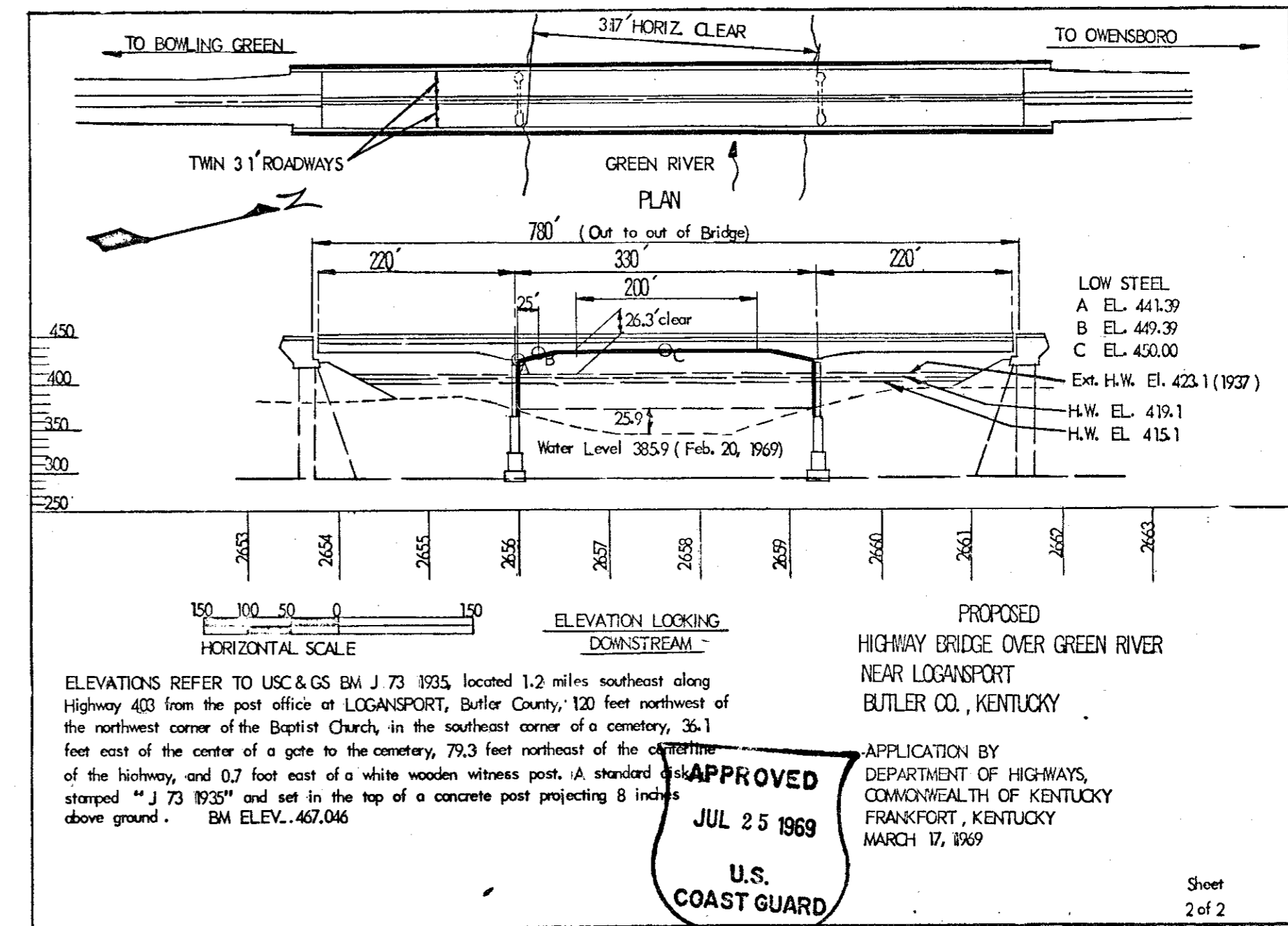
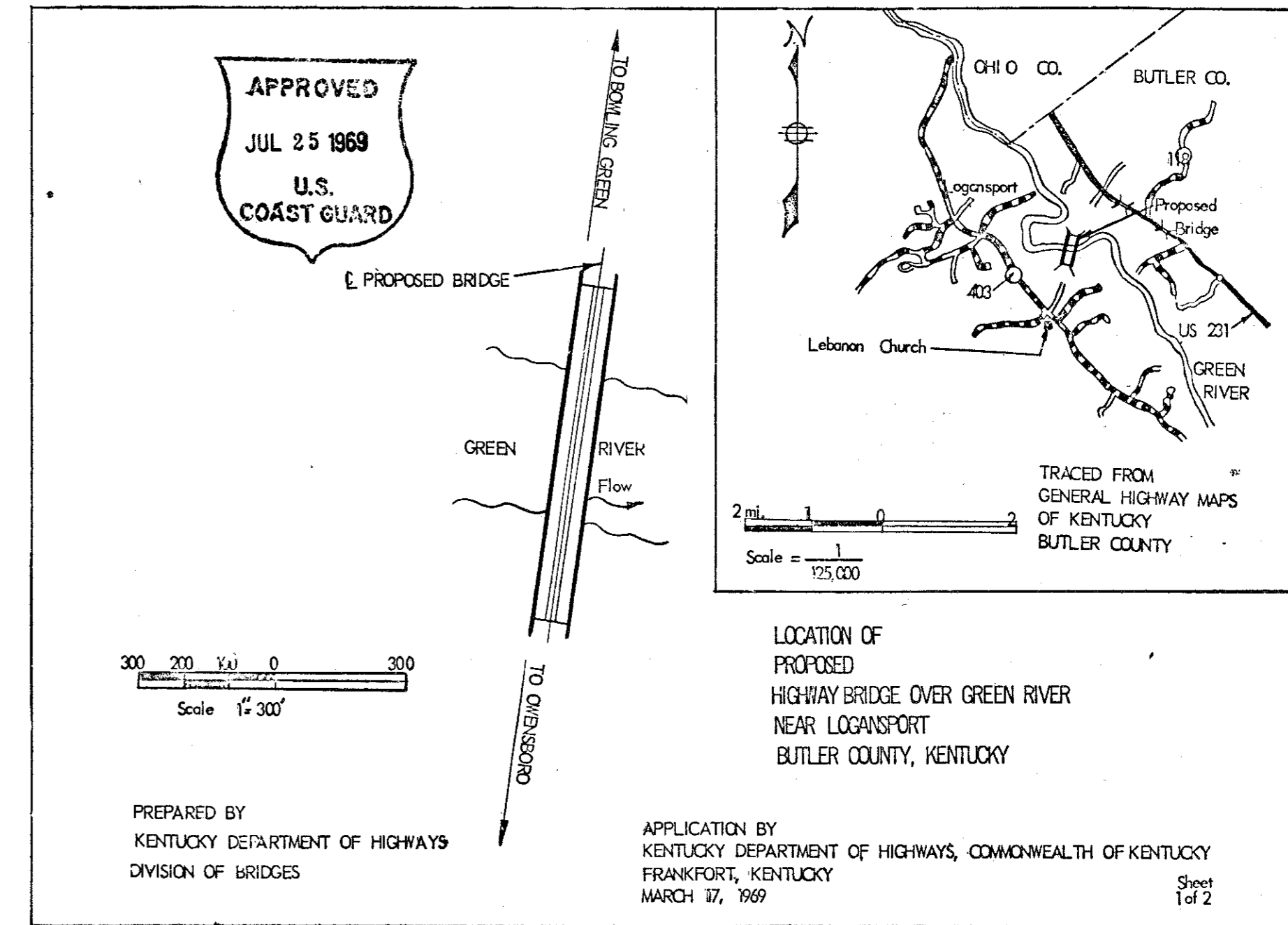
BRIDGE PERMIT: Commonwealth of Kentucky bridge across the Green River (134-69) near Logansport, Kentucky;

Control Administration, Ohio Basin Region, or any other federal, state or local authority having cognizance of any aspect of the location, construction, or maintenance of said bridge.

4. Clearance gauges shall be installed and maintained in a good legible condition by and at the expense of the owner of the bridge if and when required by the Commander, Second Coast Guard District. The District Commander will specify the type of gauges and the location in which they are to be installed.

5. The approval hereby granted shall cease and be null and void unless the actual construction of the bridge be commenced within 2 years and completed within 4 years of the date of this permit.

R. W. GORRING
Rear Admiral, U. S. Coast Guard
Chief, Office of Operations



BRIDGE OVER GREEN RIVER SHEET 3

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
BUTLER
BOWLING GREEN-OWENSBORO PARKWAY
ROAD
STATION 2657+35.0 P. E. PROJECT NO.
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.
17774

SUBSTRUCTURE - PIER 1 & PIER 2

GENERAL NOTE

LETTING DATE

SPECIFICATIONS: The Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, current edition with revisions, shall apply to this project.

DESIGN LOAD: This bridge is designed for HS 20-44 live load as specified in 1969 AASHTO Specifications or alternate loading, of two 24-KIP axles spaced four feet apart, whichever produces the greater stress. This Bridge is designed for a wind load based on a wind velocity of 84 mph.

DESIGN STRESSES: For Reinforced Concrete use the following:
Class A $f_s = 20,000$ psi $f_c = 1,200$ psi
 $f_c = 3,000$ psi u (for embedment) = 200 psi
 $n = 10$ u (for summation of perimeters) = 300 psi

FOUNDATION PRESSURE: Footings are designed for a maximum pressure of 24,900 psf. This maximum is for group 1 loads with increases allowed for other loading groups.

CONCRETE: Class A Concrete is to be used throughout the Substructure.

REINFORCEMENT: Dimensions shown from the face of concrete to bars are clear distances unless otherwise shown. Spacing of bars is from center to center of bars.

CONSTRUCTION JOINTS: All Construction Joints shall be carefully formed. The Contractor shall furnish sufficient mixer capacity to place the concrete between construction joints, as noted on the plans, in a period not to exceed 10 hours continuous run. After one section of the Concrete has been placed, the Construction Joint shall be thoroughly cleaned of all laitance and loose or foreign material just before concrete takes its final set (which is about six hours). The joints shall then be covered with burlap and kept completely saturated with water. Flush the joint with 1:2 Portland Cement Mortar before placing the adjoining section.

CLEARANCE GAGES: A Clearance Gage consisting of painted marks and numerals as shown on the plans shall be painted on the Downstream end of pier 1 and the upstream end of pier 2. The marks and numerals are to be accurately located as shown on the plans. The area to be painted shall be thoroughly cleaned before painting. The marks and numerals shall be painted directly on the concrete with two coats of black paint as specified herein. The paint shall be similar and/or equal to any of the following:
a. No. 801 Coroc Synthetic enamel, black, as manufactured by the Cook Paint and Varnish Company, 1412 Knox Avenue, Kansas City, Missouri.
b. Hydroflex Swimming Pool Paint, black, as manufactured by the Phelan-Faust Paint Manufacturing Company, 932 Loughborough Avenue, St. Louis, Missouri.
c. Dupont 353-801 white and 353-802 black, Alkali Resisting Paints, as manufactured by the E. I. Dupont Denemours and Company, 2100 Elston Avenue, Chicago, Illinois.
The work covered by this section shall be paid for at the contract Lump Sum Price for painting clearances gages, which payment and price shall be full compensation for all materials, transportation, all equipment and tools, all work and labor, and all incidentals necessary to complete the work.

CONSTRUCTION IDENTIFICATION: The names of the Prime Contractor and the Sub-contractor shall be imprinted in the concrete with one inch letters at a location designated by the Engineer. The Contractor shall furnish all plans, equipment and labor necessary to do the work for which no direct payment will be made.

CLEARING AND GRUBBING: Clearing and grubbing shall be in accordance with the Specifications. The area measured is between Sta. 2654+42 and edge of river on South side of Bridge and Sta. 2660+36 and edge of river on North side of Bridge.

FALSEWORK PLANS: The Contractor shall submit to the Division of Construction, for submission to U.S. Coast Guard for approval and Temporary navigation lighting requirements, seven (7) sets of preliminary falsework plans showing the Plan, Elevation and location of any and all Cofferdams, Temporary Falsework and other obstructions to be used in connection with the construction of this Bridge. One copy showing requested alterations, if any, will be returned to the Contractor by the Division of Construction. The Contractor shall submit to the Division of Construction five (5) sets of final Falsework Plans for final distribution.

COFFERDAMS: Cofferdams shall be required for Piers 1 and 2 and all provisions of the Specifications shall apply, except as herein modified. The Contractor shall submit drawings to the Engineer for Review which show his proposed method of cofferdam construction. Cofferdam construction shall not start before these submitted drawings have been reviewed and have been approved as directed in the Specifications. Sheeting shall be driven to refusal into the hard foundation material. Cofferdams shall be well braced, as near water tight as practicable. Cofferdams which are tilted or moved laterally during construction due to any cause shall be righted, reset or enlarged so as to provide the clearance necessary for the construction of the substructure as shown on the plans, and this shall be at the sole expense of the Contractor. All sheeting shall be removed or cut off at the top of the concrete foundation seal. Cofferdams for Piers 1 and 2 will be paid for at the lump sum bid for "Cofferdams", which payment shall include and be full compensation for any required plans, for furnishing, hauling and placing all necessary materials, construction and maintenance, unwatering, removal of bracing and removal of or cutting off of sheeting, and for all labor, equipment, tools and incidentals necessary to complete this part of the work.

ACCESS TO BRIDGE SITE: Access to the South Bank of Green River is available through the right-of-way acquired as shown on Sheet 14 from Ky. 403. Access to the North Bank of Green River is available through the right-of-way acquired as shown on Sheets 12 and 13 from US 231.

COOPERATION WITH CONTRACTORS OF ADJACENT GRADE & DRAIN PROJECTS: The contracts for the Grade and Drain work (BOP 2-3 & BOP 2-4) adjacent to this project will be let before the work on this Project (BOP 2-5) is completed. The Contractor shall cooperate with the Grade and Drain Contractors in accordance with the Requirements of Article 1.5.6 of the Standard Specifications. The Contractor on this project (BOP 2-5) will be permitted access to his job on the right-of-way through these adjacent projects (BOP 2-3 & 2-4), providing he maintains said access in a manner mutually agreeable to himself and the Grade and Drain Contractor. Because of the stability requirements for the embankment foundations on the adjacent projects, the Contractor on BOP 2-5 shall not substantially alter the contours of the existing ground during the course of the work.

The Contractor for BOP 2-5 is advised that the following stability requirements will be a part of the adjacent Grade & Drain contracts.

FOR INFORMATION ONLY

STABILITY REQUIREMENTS Plan Note for BOP 2-3

EMBANKMENT CONSTRUCTION STATION 2635+50 - STATION 2653+00

Due to the nature of the foundation soils, the anticipated settlement, and the height of embankment in this area, the following special construction procedures shall be adhered to:

- (1) Settlement Platforms shall be installed on the centerline & under each shoulder before construction begins at Stations shown on Plan and Profile Sht. No. 13 & 14 in accordance with Detail shown on Sheet No. 21.
- (2) Piezometers shall be installed on the centerline before construction begins at Stations shown on Plan & Profile Sht. No. 13 & 14 in accordance with Detail shown on Sheet No. 22.
- (3) Rock shall be placed in the bottom of fill to approximate elevation of 412.5 from Sta. 2637+50 to Sta. 2652+50 except for the earth core at abut. No. 1 as shown on Plan & Profile Sht. No. 14.
- (4) The embankment may be constructed to a height of 35 ft. at any desired or convenient rate not below a minimum rate of 2.5 ft. per week.
- (5) After embankment reaches a height of 35 ft. it shall be permitted to set until 100 days has elapsed from the date the fill was started. The embankment shall then be constructed to fill height at a rate to exceed 2.5 ft. per week.
- (6) If at any time the Piezometer Gage reads a pressure equivalent to Elev. 430 or the settlement platforms show any sudden settlement or there is any indication of lateral movement near the toe of slope, construction shall be suspended until the pore pressure has had sufficient time to dissipate and/or the cause of the settlement or movement is determined.
- (7) An earth core shall be constructed at End Bent No. 1 in accordance with Bridge Std. Drwg. SF 2. No piling shall be driven on End Bent No. 1 until the entire embankment between the above limits is constructed to Elevation 442 or to grade.

STABILITY REQUIREMENTS Plan Note for BOP 2-4

EMBANKMENT CONSTRUCTION STATION 2659+00 - STATION 2683+00

Due to the nature of the foundation soils, the anticipated settlement, and the height of embankment in this area, the following special construction procedures shall be adhered to:

- (1) Settle Platforms shall be installed on the centerline & under each shoulder before construction begins at Stations shown on Plan & Profile Sht. No. 3 & in accordance with Detail shown on Sheet No. 36.
- (2) Piezometers shall be installed on the centerline before construction begins at stations shown on Plan & Profile Sht. No. 3 & in accordance with Detail shown on Sheet No. 37.
- (3) Rock shall be placed in the bottom of fill to approximate elevation of 412.5 from Sta. 2661+50 to Sta. 2683+00 except for the earth core at abut. No. 2 as shown on Plan & Profile Sht. No. 3.
- (4) The embankment may be constructed to a height of 35 ft. at any desired or convenient rate not below a minimum rate of 2.5 ft. per week.
- (5) After the embankment reaches a height of 35 ft. it shall be permitted to set until 100 days has elapsed from the date the fill was started. The embankment shall then be constructed to fill height at a rate not to exceed 2.5 ft. per week.
- (6) If at any time the Piezometer Gage reads a pressure equivalent to Elev. 430 or the settlement platforms show any sudden settlement or there is any indication of lateral movement near the toe of the slope, construction shall be suspended until the pore pressure has had sufficient time to dissipate and/or the cause of the settlement or movement is determined.
- (7) An earth core shall be constructed at End Bent No. 2 in accordance with Bridge Std. Drwg. SF 2. No piling shall be driven on End Bent No. 2 until the entire embankment between the above limits is constructed to Elevation 442 or to grade.

DESIGNED BY: L. King
CHECKED BY: G. P. B.
TRACED BY:
REVISED: Cofferdam note 9/23/70 J.K.
DATE: 9/23/70
DATE: 9/23/70
DATE: 9/23/70

BRIDGE OVER GREEN RIVER SHEET 4

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
BUTLER

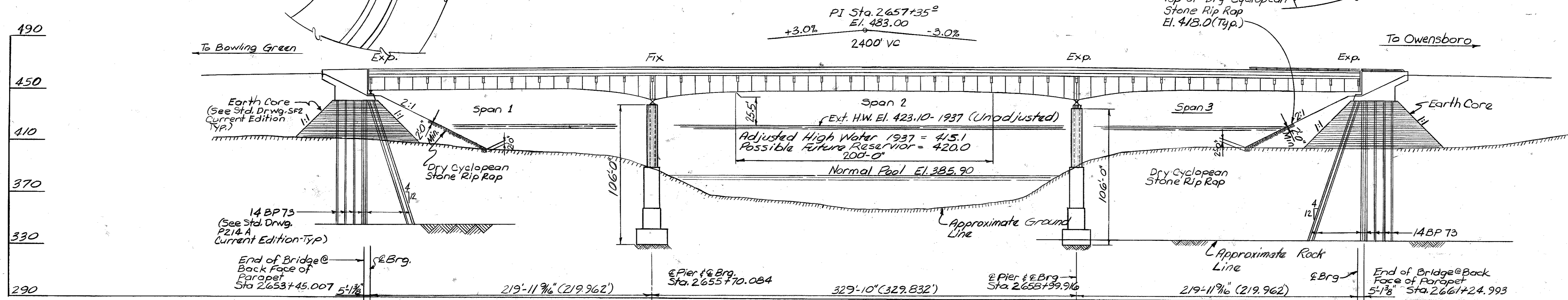
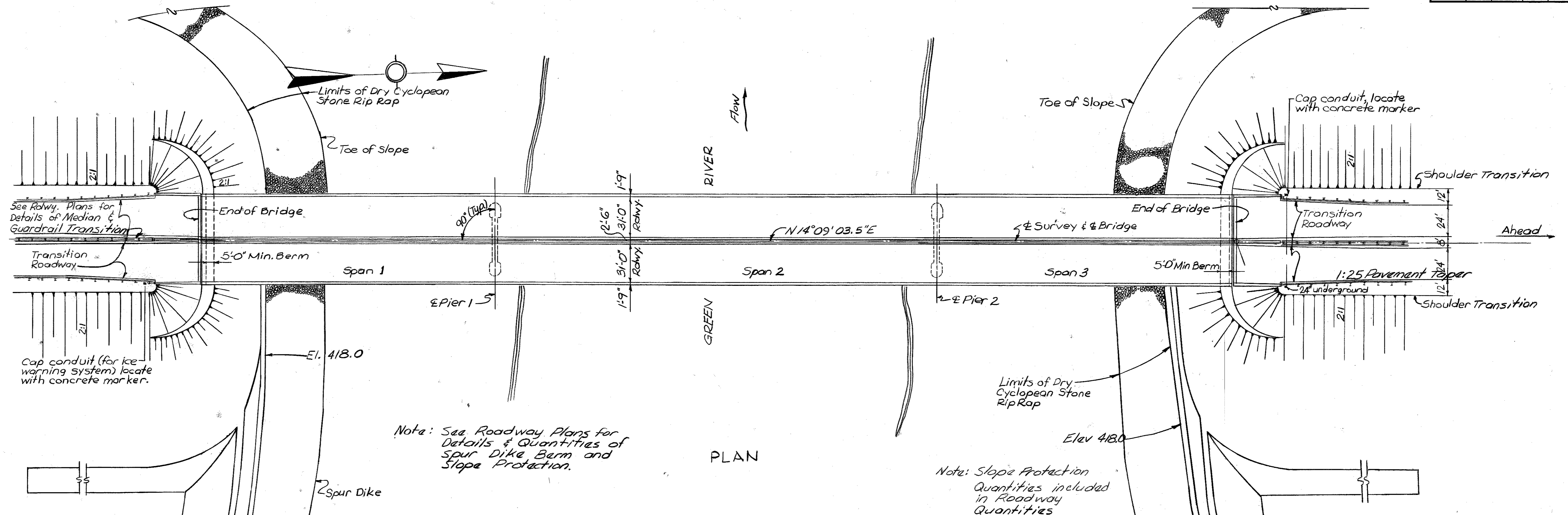
BOWLING GREEN-OWENBORO PARKWAY

ROAD
P. E. PROJECT NO.

STATION
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.

17774

GENERAL NOTE



<p>End Bent 1 Bridge Seat Elev. 447.084 Berm Elev. 446.084 Pile Cut-off 445.08</p>	<p>Pier 1 Bridge Seat Elev. 439.284 Bottom Footing Elev. 333.284</p>	<p>Pier 2 Bridge Seat Elev. 436.950 Bottom Footing Elev. 330.950</p>	<p>End Bent 2 Bridge Seat El. 447.084 Berm El. 446.084 Pile cut off El. 445.08</p>
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ELEVATION

220'-330'-220' CONTINUOUS WELDED
PLATE GIRDER SPANS
TWIN 31'-0" ROADWAY ~ 80'-0" SHOULDERS @ BRIDGE
0° SKEW ~ 2:1 FILL SLOPES
HS20-44 OR ALTERNATE LOADING

DESIGNED BY: G.P.B. CHECKED BY: J.M. DATE: 9/26/93
 TRACED BY: G.P.B. CHECKED BY: J.M. DATE: 9/26/93
 REVISED: DATE: REVISED: DATE: REVISED: DATE:

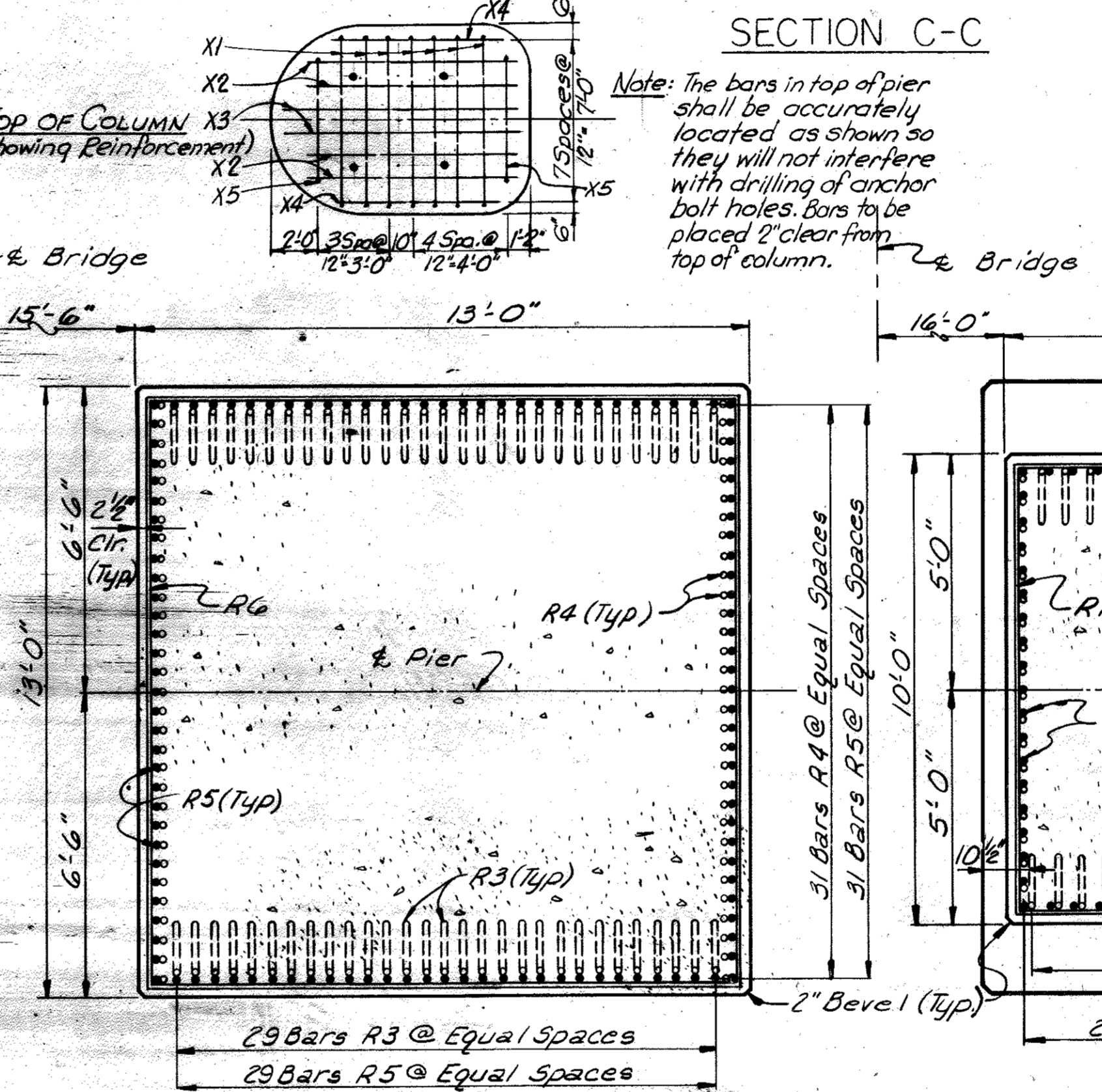
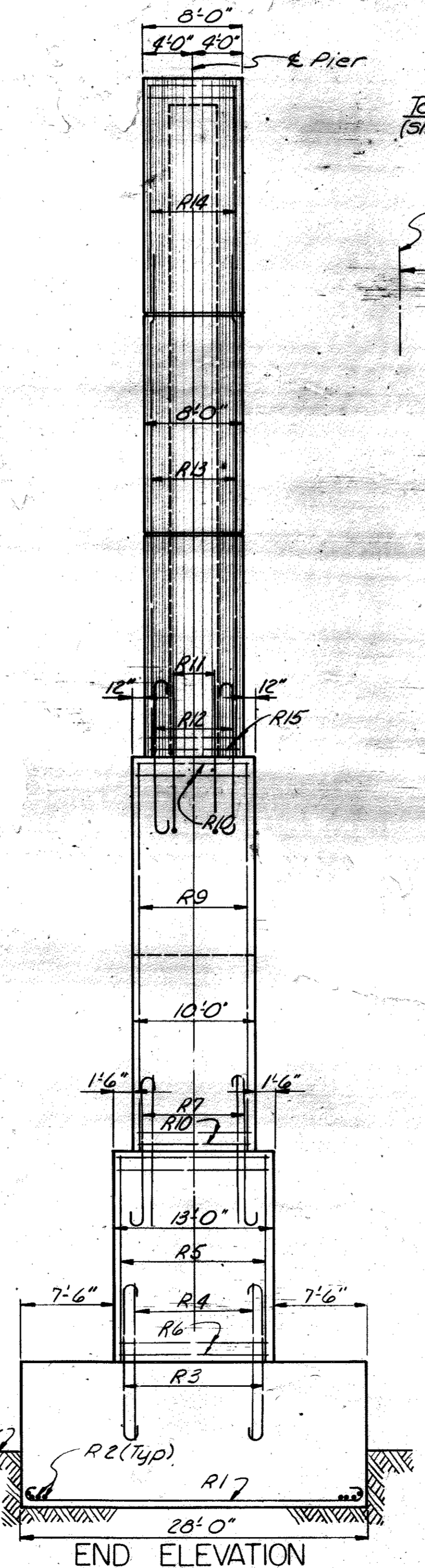
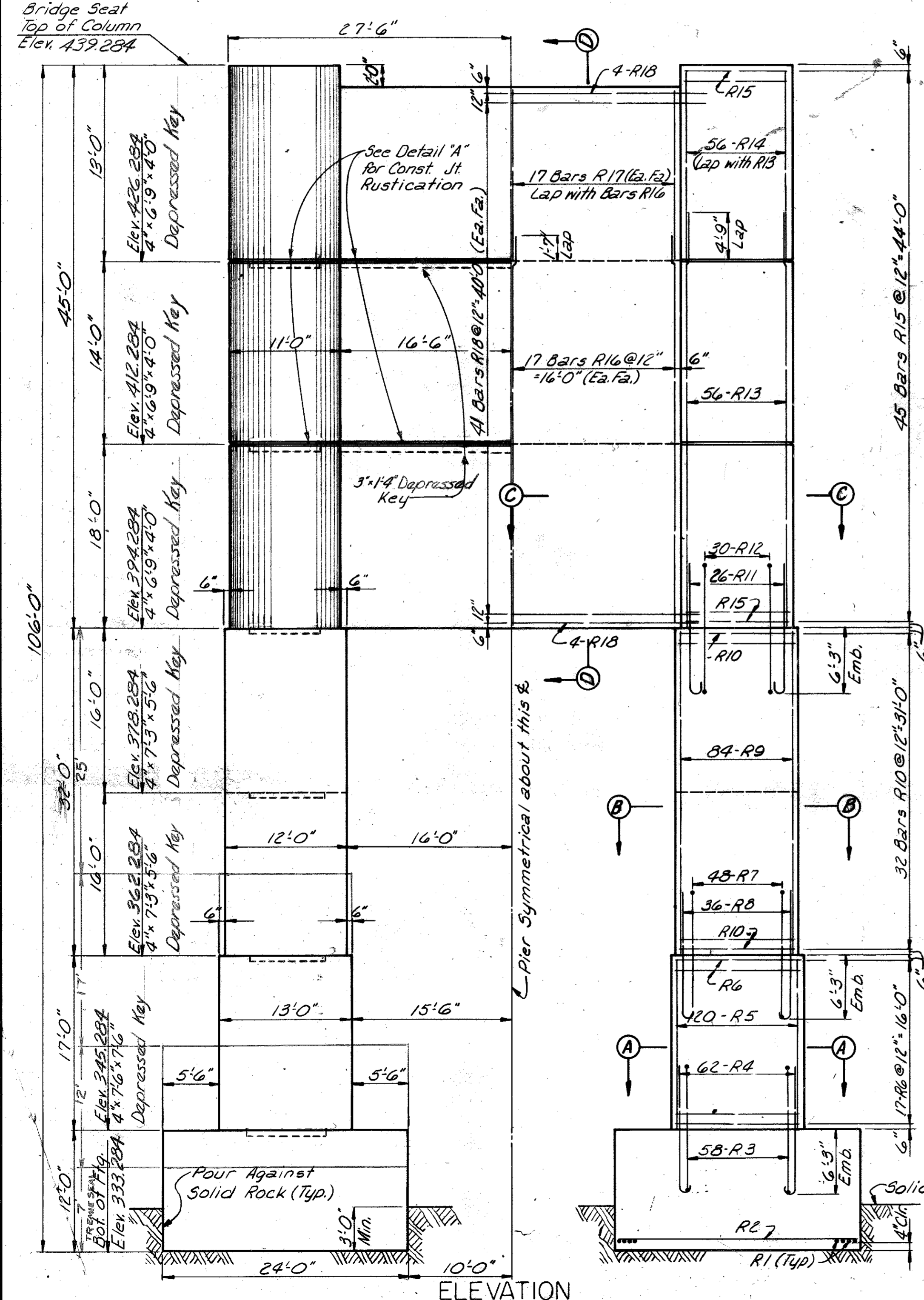
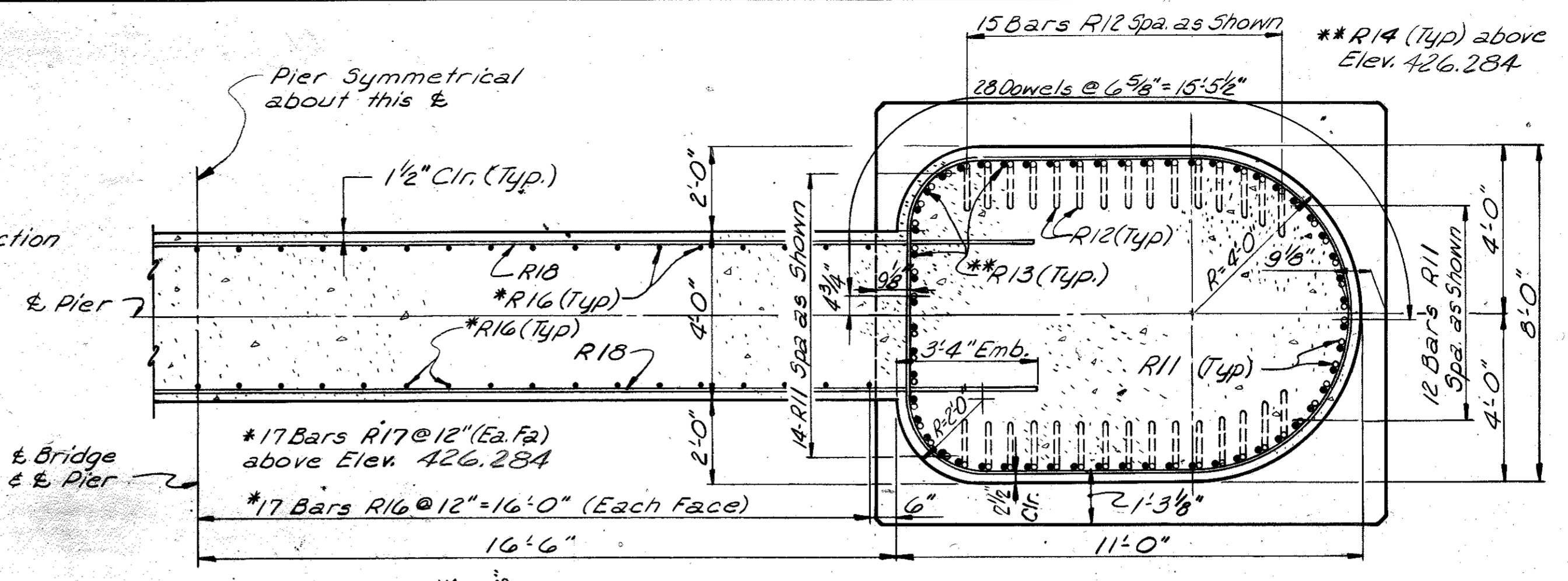
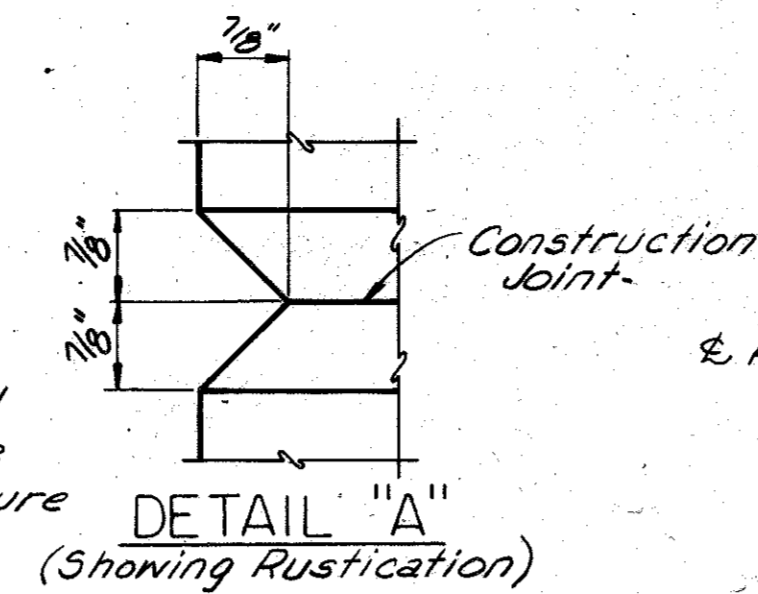
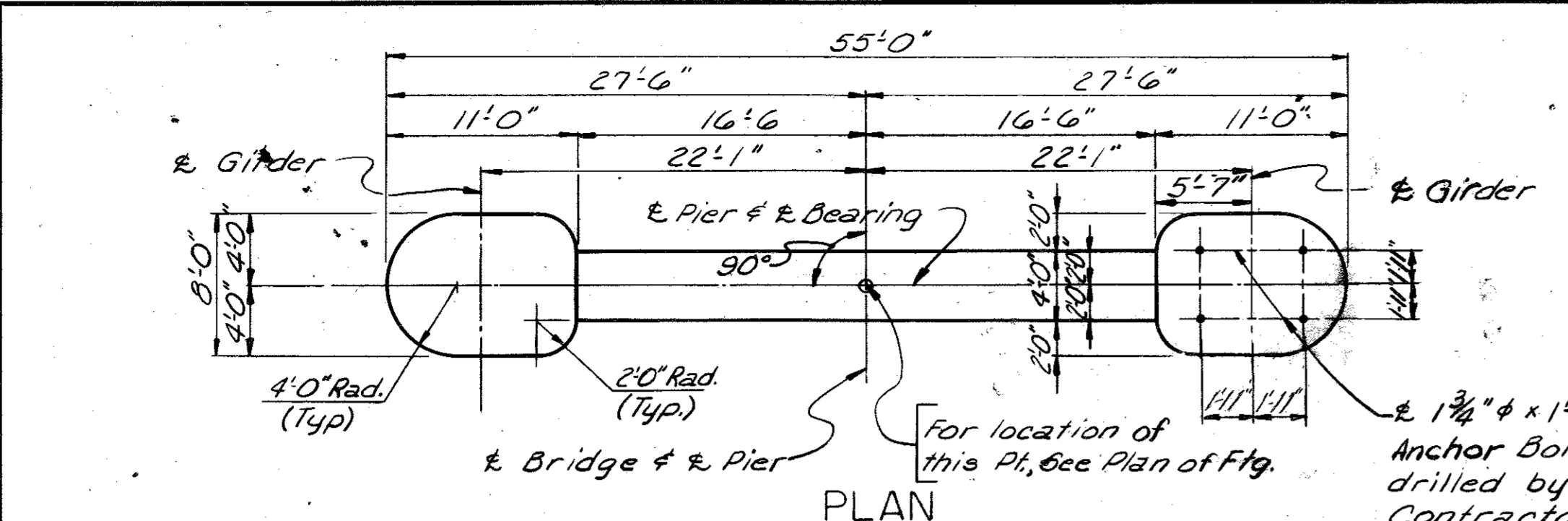
SHEET 5

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
BUTLER

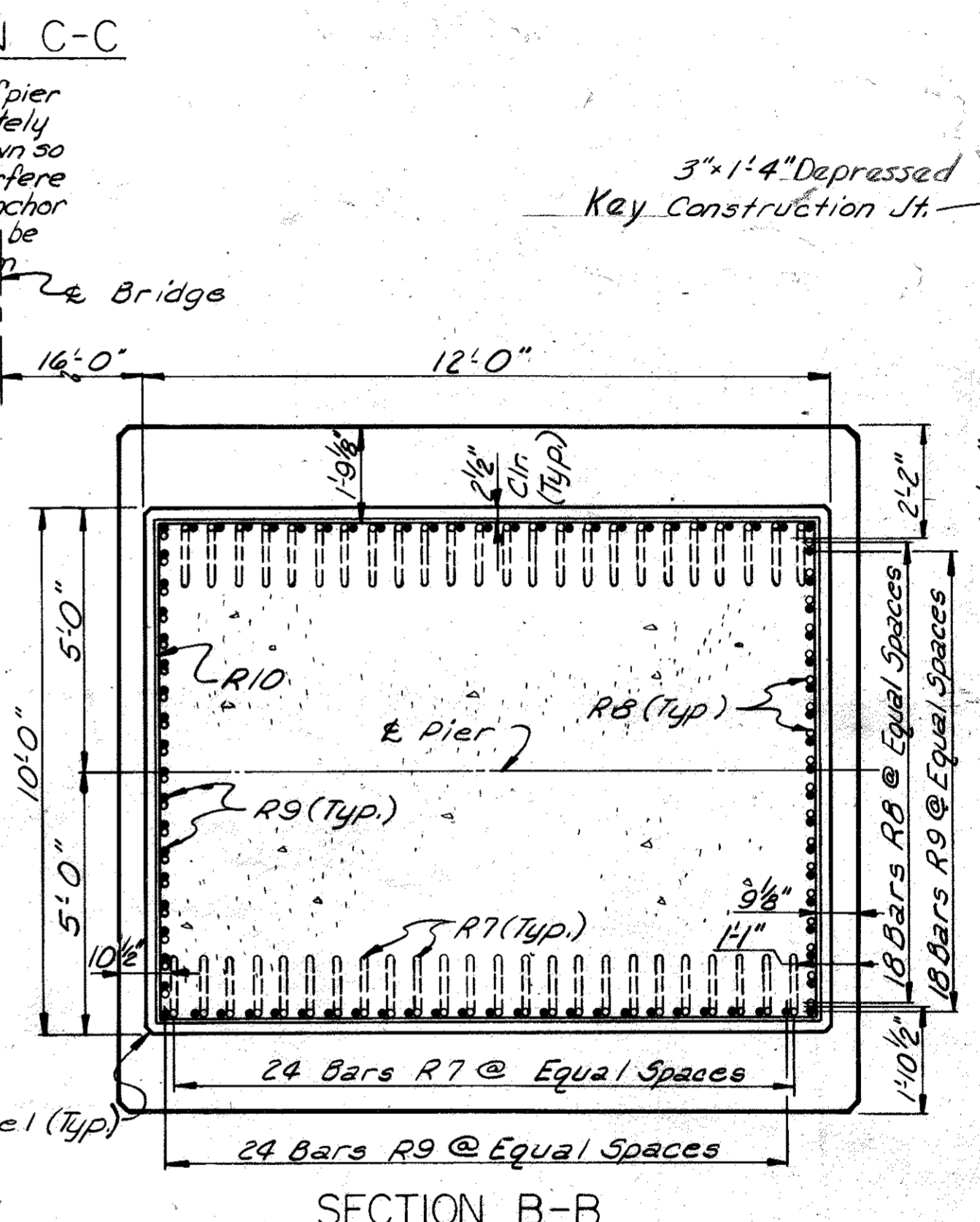
BOWLING GREEN-OWENSBORO PARKWAY ROAD

STATION 2657+35[±] PROJECT NO.

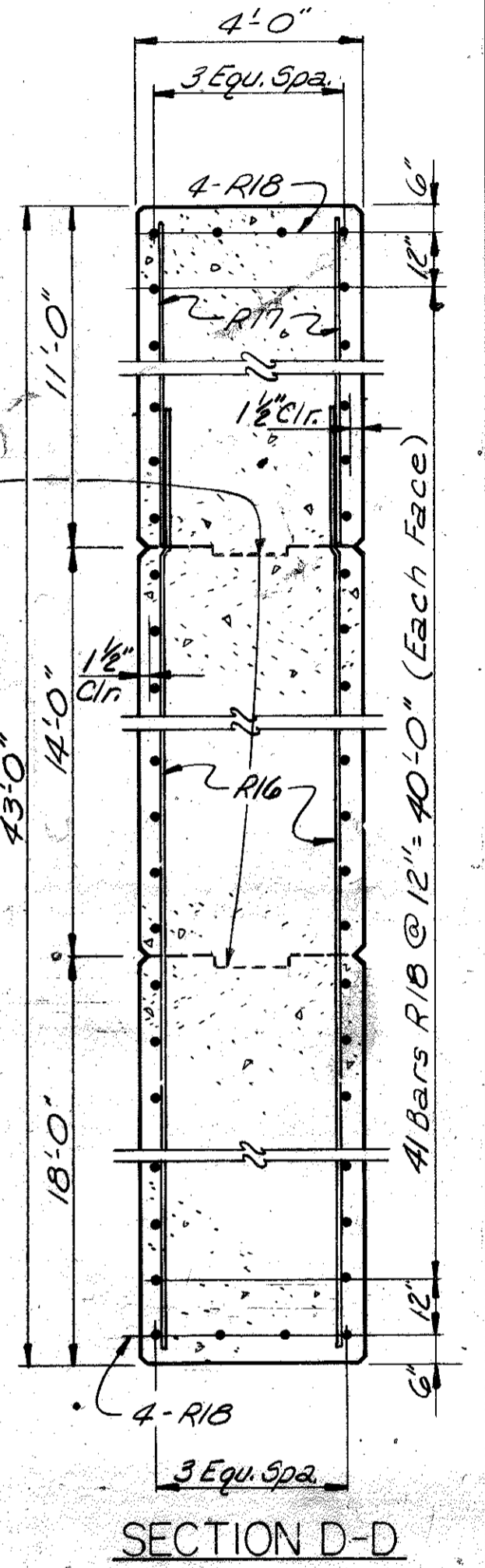
BRIDGE NUMBER	DRAWING NO. 17774	INDEX
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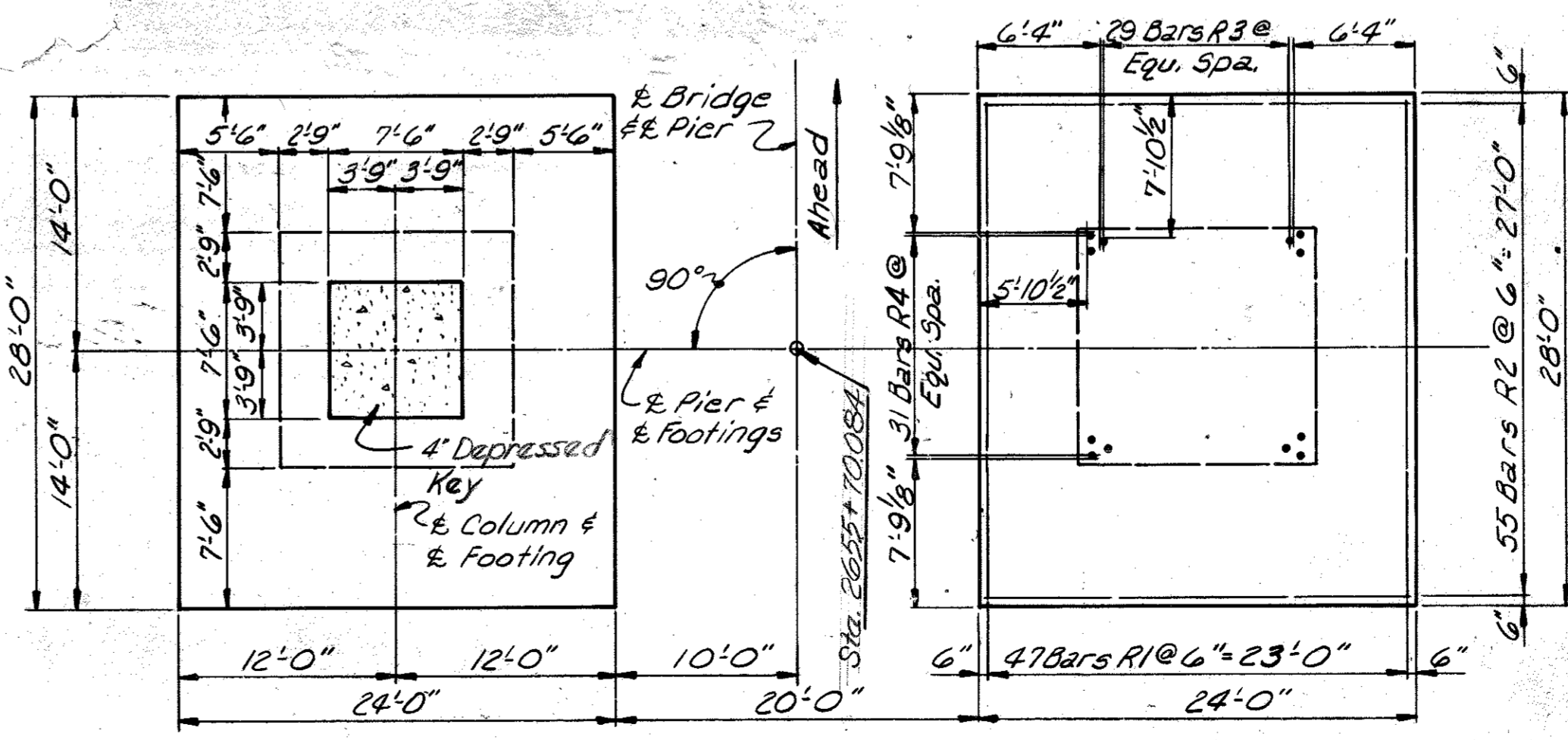
Note: The bars in top of pier shall be accurately located as shown so they will not interfere with drilling of anchor bolt holes. Bars to be placed 2" clear from top of column.



SECTION B-B



SECTION D-D



PLAN OF FOOTINGS

PIER 1

NOTE:
See Sheet 7 for Bill of Reinf. Estimate of Quantities and Vertical Clearance Gage details

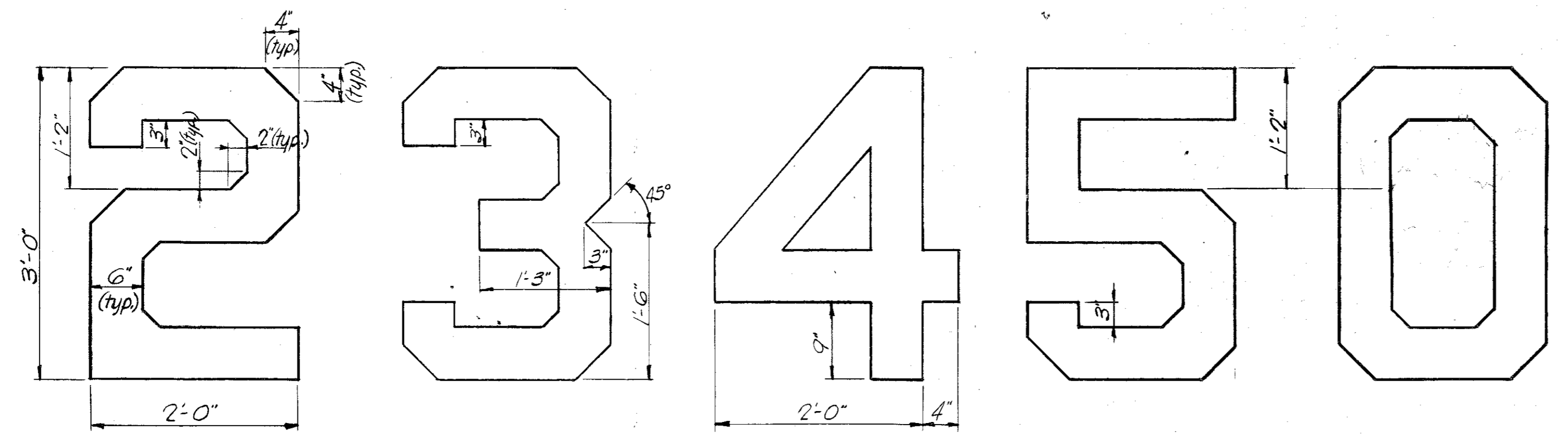
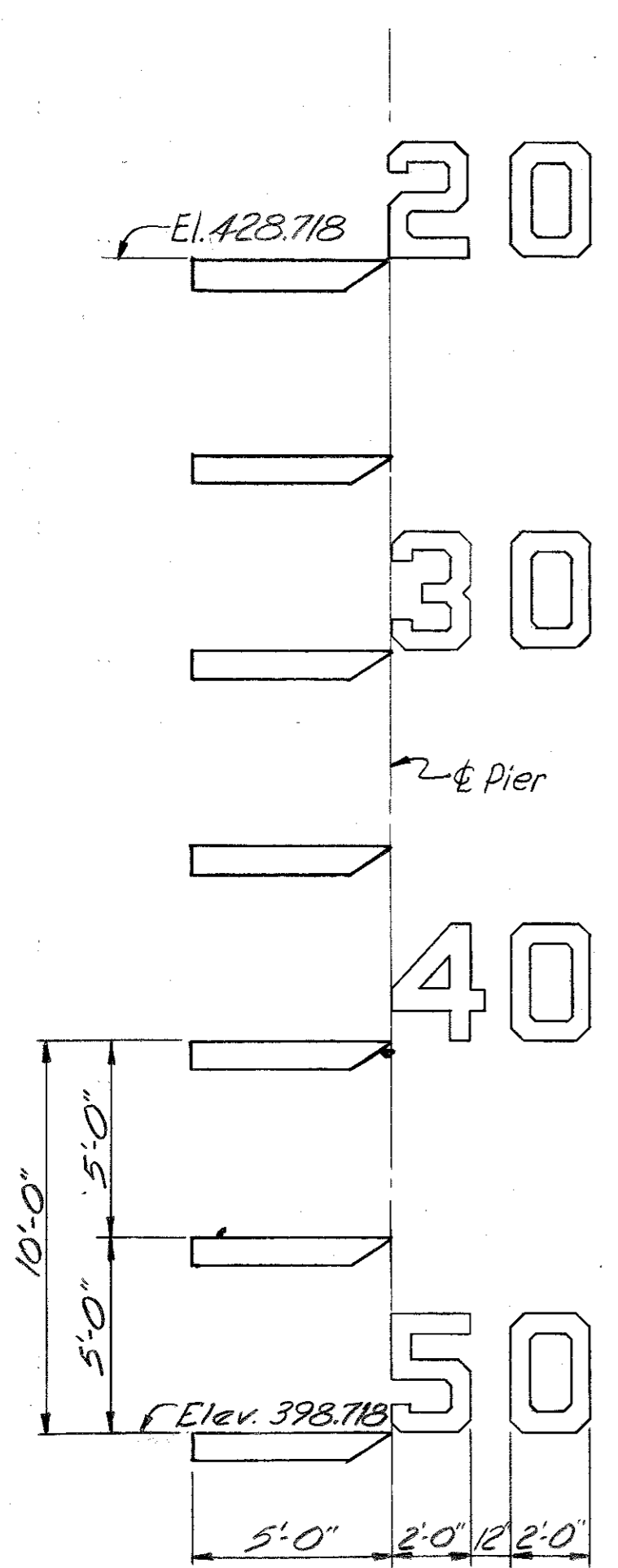
DESIGNED BY: C.P.K. J.C. CHECKED BY: D.G.M. DATE: 4-9-69

REVISIONS:
1. REVISION: Anchor Bolt Spacing - Add Rebars in top of Columns DATE: 4-9-69
2. REVISION: Revised To Fit This Structure From Dwg. 17570 - J.K. DATE: 11-1-69

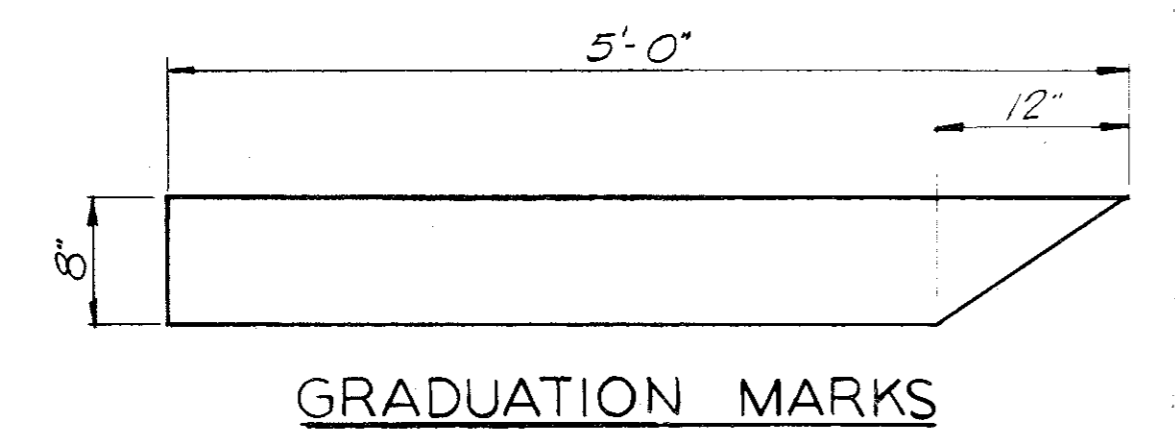
BILL OF REINFORCEMENT						FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
						7	KY.				
MARK	TYPE	NUMBER OF BARS	SIZE	LENGTH		LOCATION	a		b		
				Ft.	In.		Ft.	In.	Ft.	In.	
PIER 1											
R1	(1)	94	#10	30	8	Footing	26	8	27	8 1/2	
R2	Str.	110	#6	23	8	"					
R3	(1)	116	#11	15	8	Flg. into Column	11	4	12	5 3/4	
R4	(2)	124	#11	14	1	"	11	11	12	5 3/8	
R5	Str.	240	#11	16	10	Column					
R6	(4)	34	#5	51	1	"	12	7	12	7	
R7	(3)	96	#11	15	8	"	11	4	12	5 3/4	
R8	(2)	72	#11	14	1	"	11	11	12	5 3/8	
R9	Str.	168	#11	10		"					
R10	(4)	50	#5	43	1	"	11	7	9	7	
R11	(2)	52	#11	14	1	"	11	11	12	5 3/8	
R12	(1)	60	#11	15	8	"	11	4	12	5 3/4	
R13	Str.	112	#11	36	9	"					
R14	Str.	112	#11	12	9	"					
R15	(5)	90	#5	32	9	"					
R16	Str.	66	#6	33	7	Webwall					
R17	Str.	66	#6	10	9	"					
R18	Str.	90	#8	39	8	"					
X1	(6)	14	#5	9	8	Top of Column	7	2	1	4	
X2	Str.	8		9	0						
X3	"	4		10	6						
X4	"	4		7	0						
X5	(2)	4	#5	7	8		5	2	1	4	

ESTIMATE OF QUANTITIES		
ITEM	QUANTITIES	UNIT
CONCRETE CLASS "A"	1853.7	CU. YDS.
REINFORCEMENT	151978	LBS.

- ① THE LENGTH OF R9 BARS IN THE COLUMN WAS SHORTENED 7 FT @ IN.
- ② THE NUMBER OF R10 BARS WAS REDUCED BY SEVEN (7) IN EACH COLUMN MAKING A TOTAL REDUCTION OF 14 BARS.



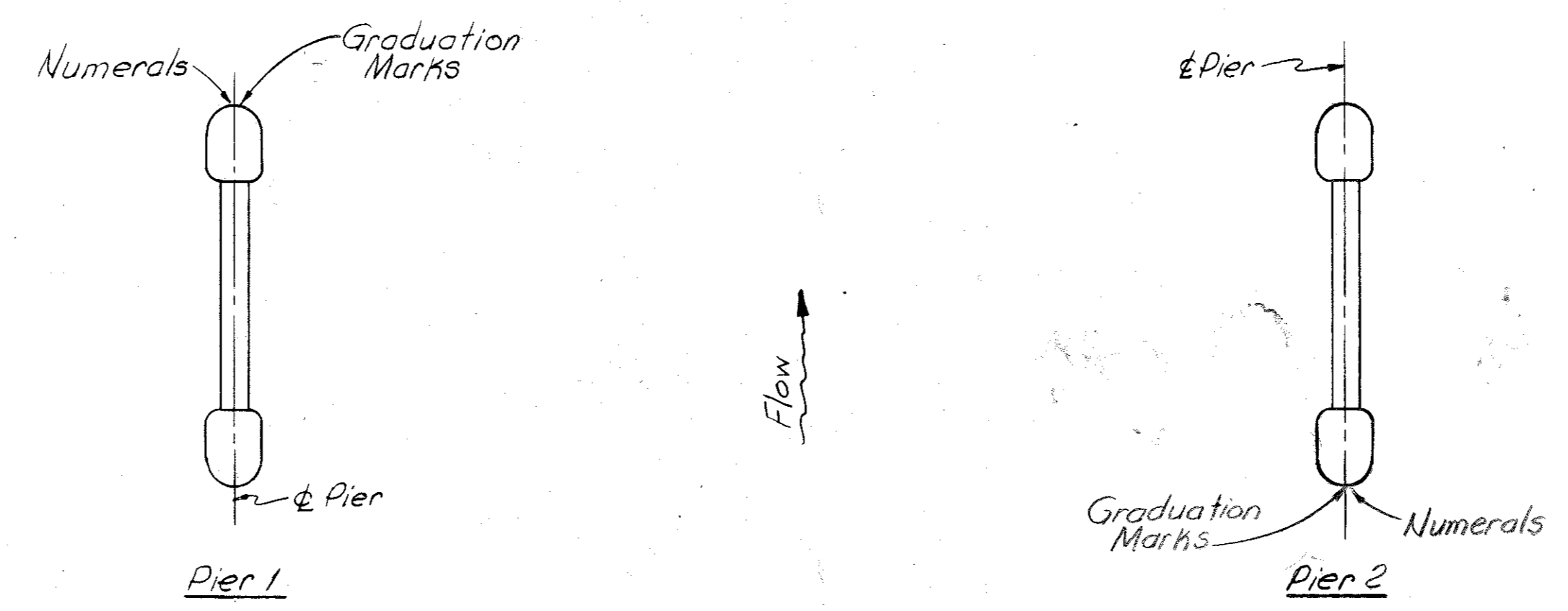
NUMERAL DETAILS



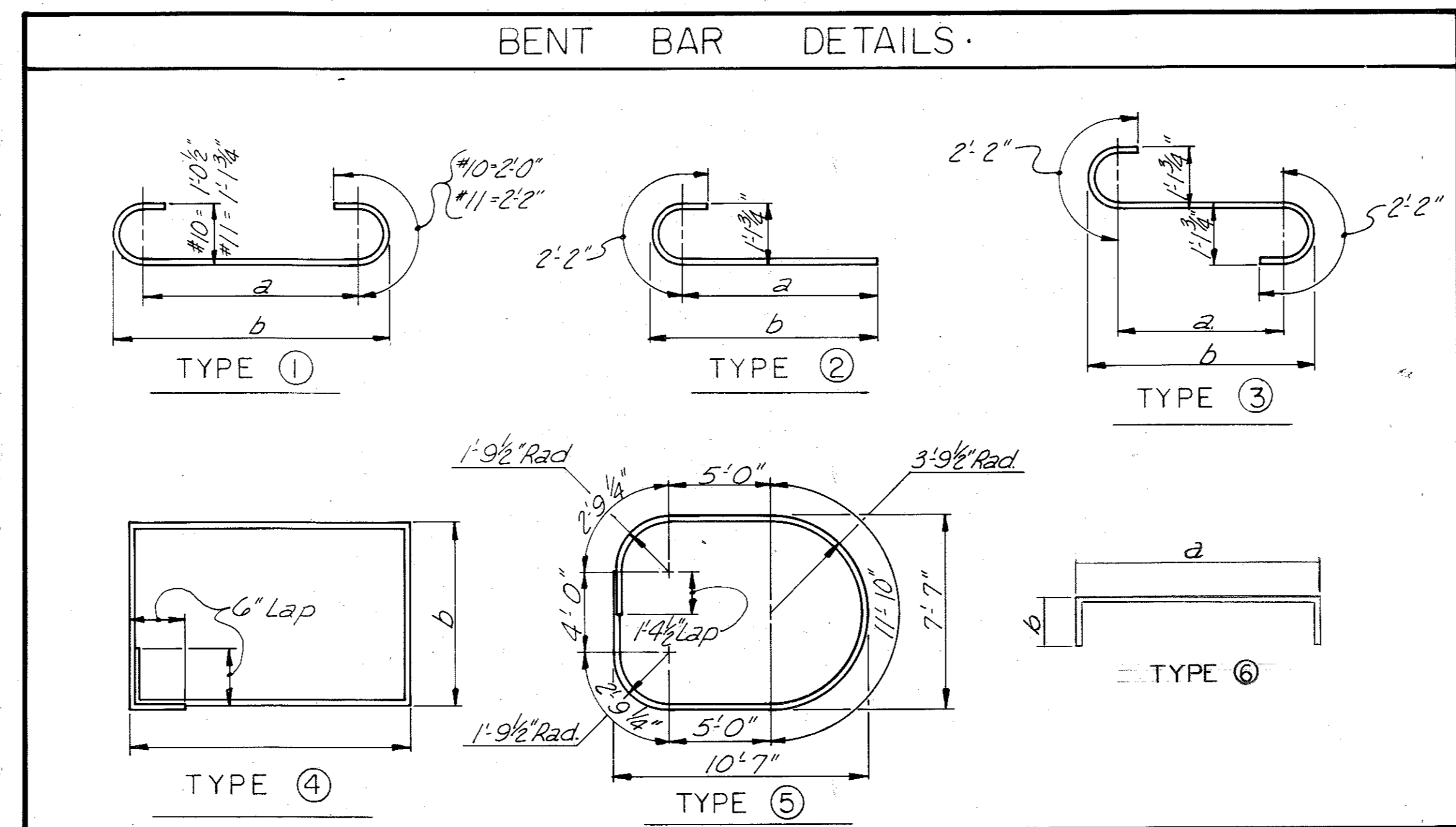
GRADUATION MARKS

VERTICAL CLEARANCE GAGE DETAILS

Numerals and Graduation Marks shall be painted directly on concrete with 2 coats of paint. (See General Notes Sheet 4 for paint specifications)



LOCATION PLAN



BENT BAR DETAILS

GAGE DETAILS & QUANTITIES

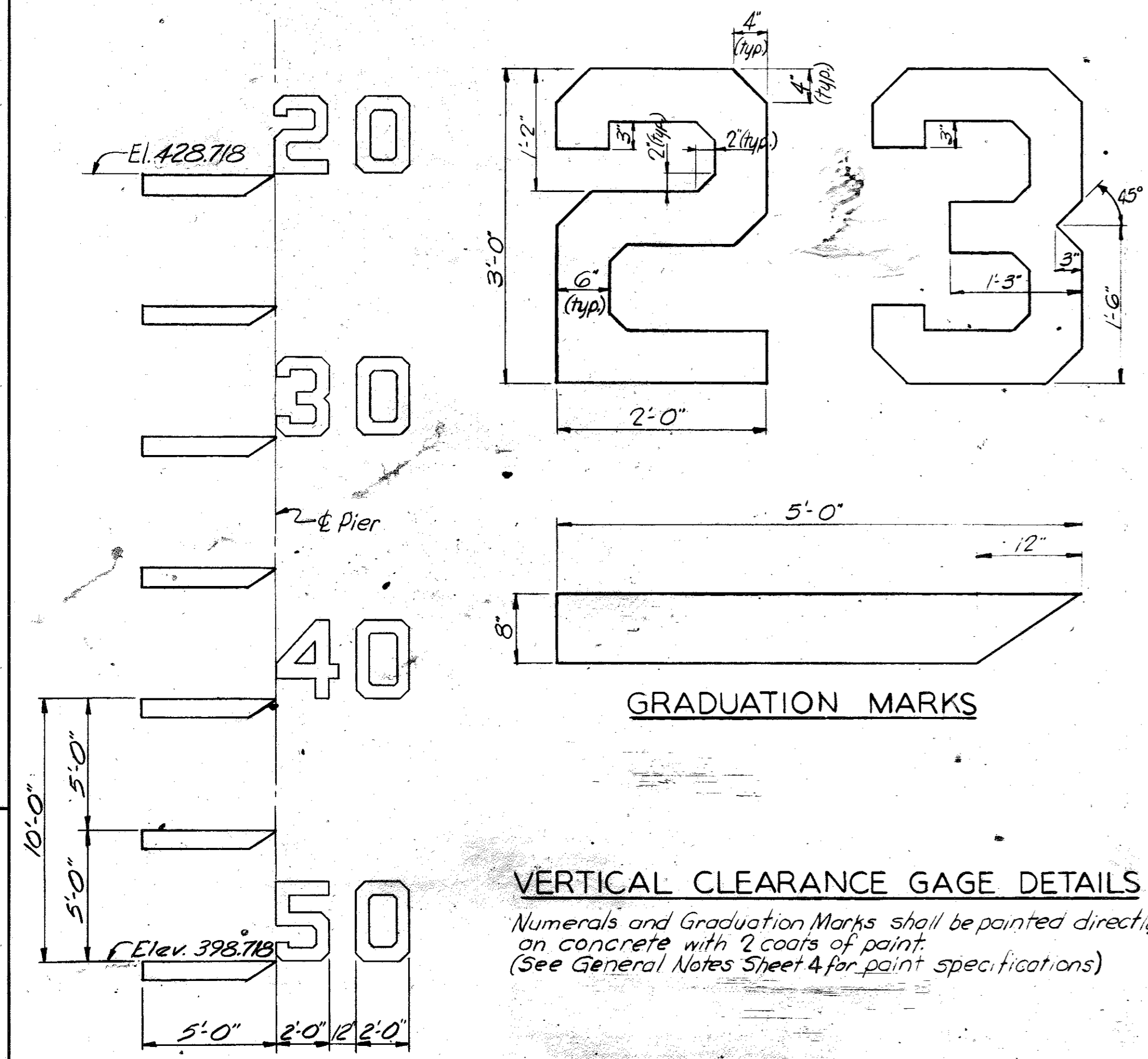
DESIGNED BY: CPX-JR CHECKED BY: D.G.M. DATE: 11/14/63
 REVISION: 11/14/63 REVISION: 11/14/63 REVISION: 11/14/63
 DETAILED BY: DAME D.M.G. CHECKED BY: D.G.M. DATE: 11/14/63
 TRACED BY: DATE:

BRIDGE OVER GREEN RIVER. SHEET 7

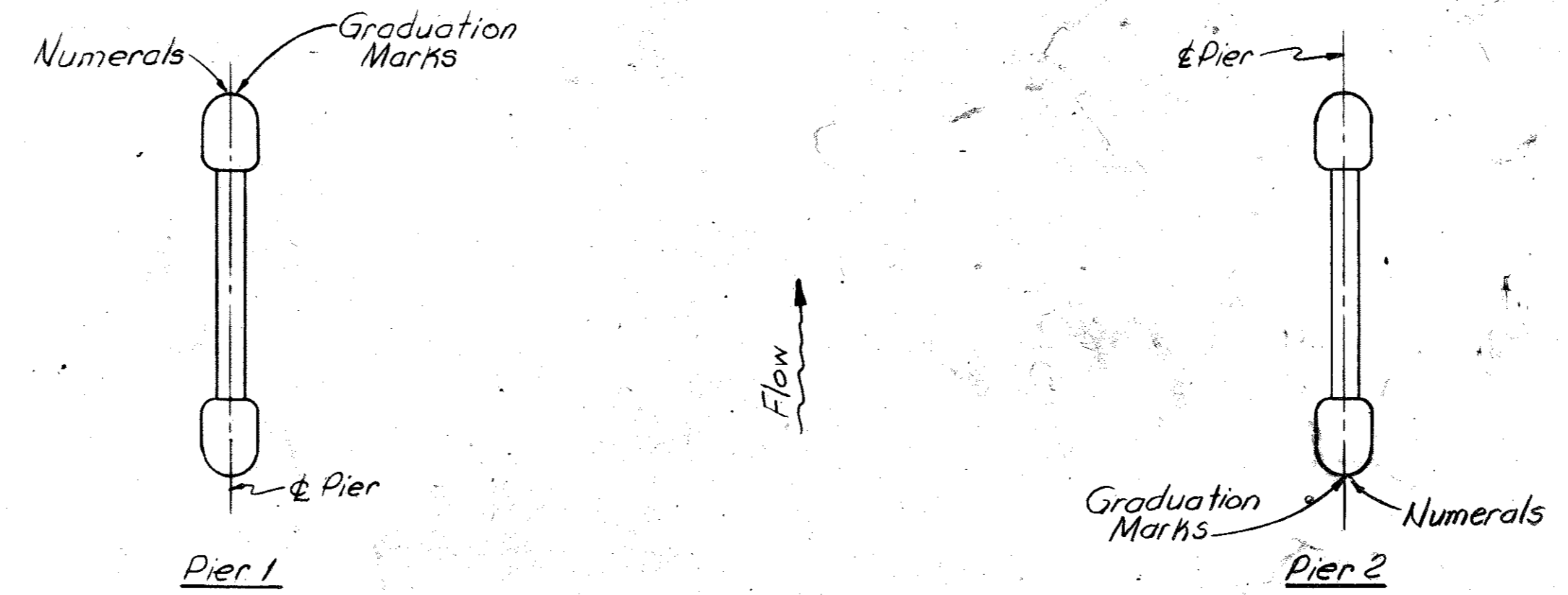
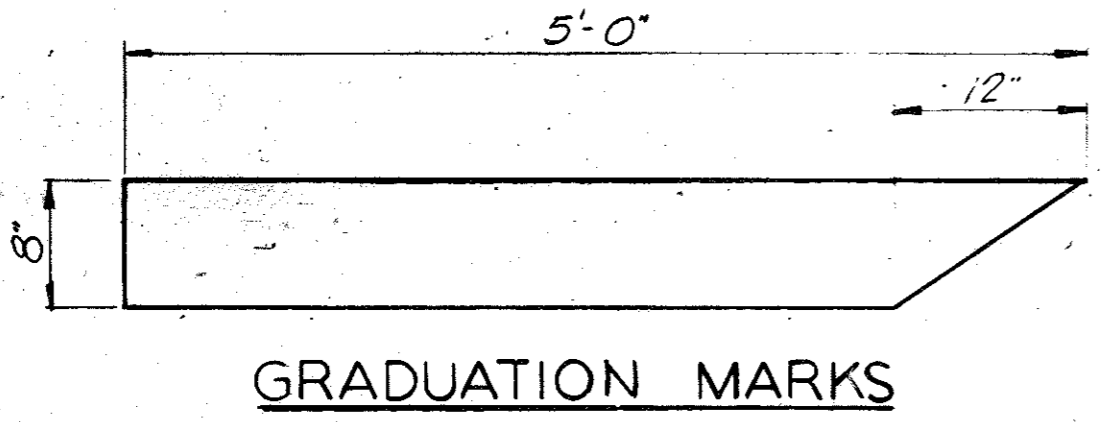
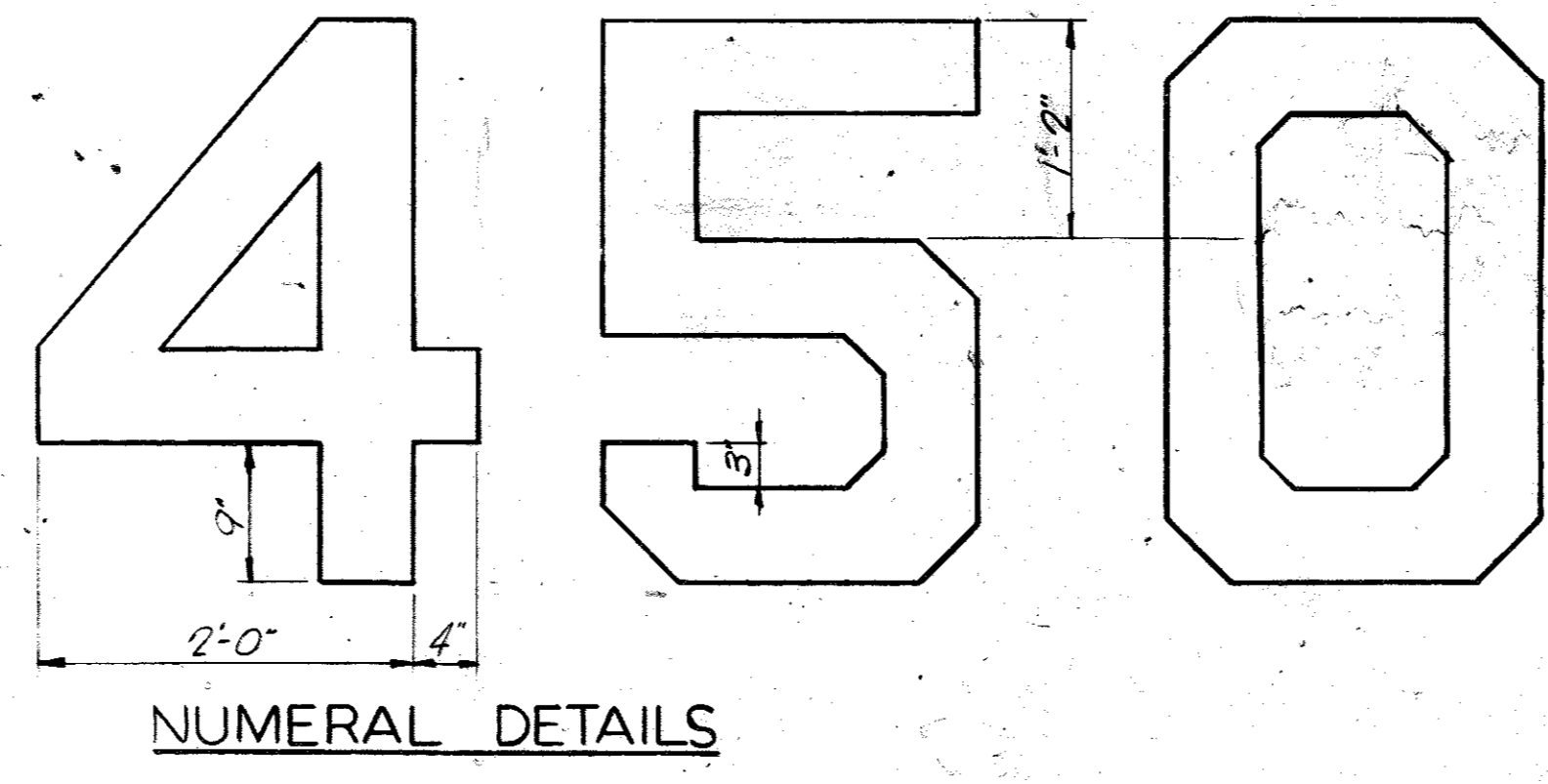
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
BUTLER
 BOWLING GREEN-OWENSBORO PARKWAY
 ROAD
 STATION 2657+35[±] PROJECT NO.

BRIDGE NUMBER	DRAWING NO. 17774	INDEX
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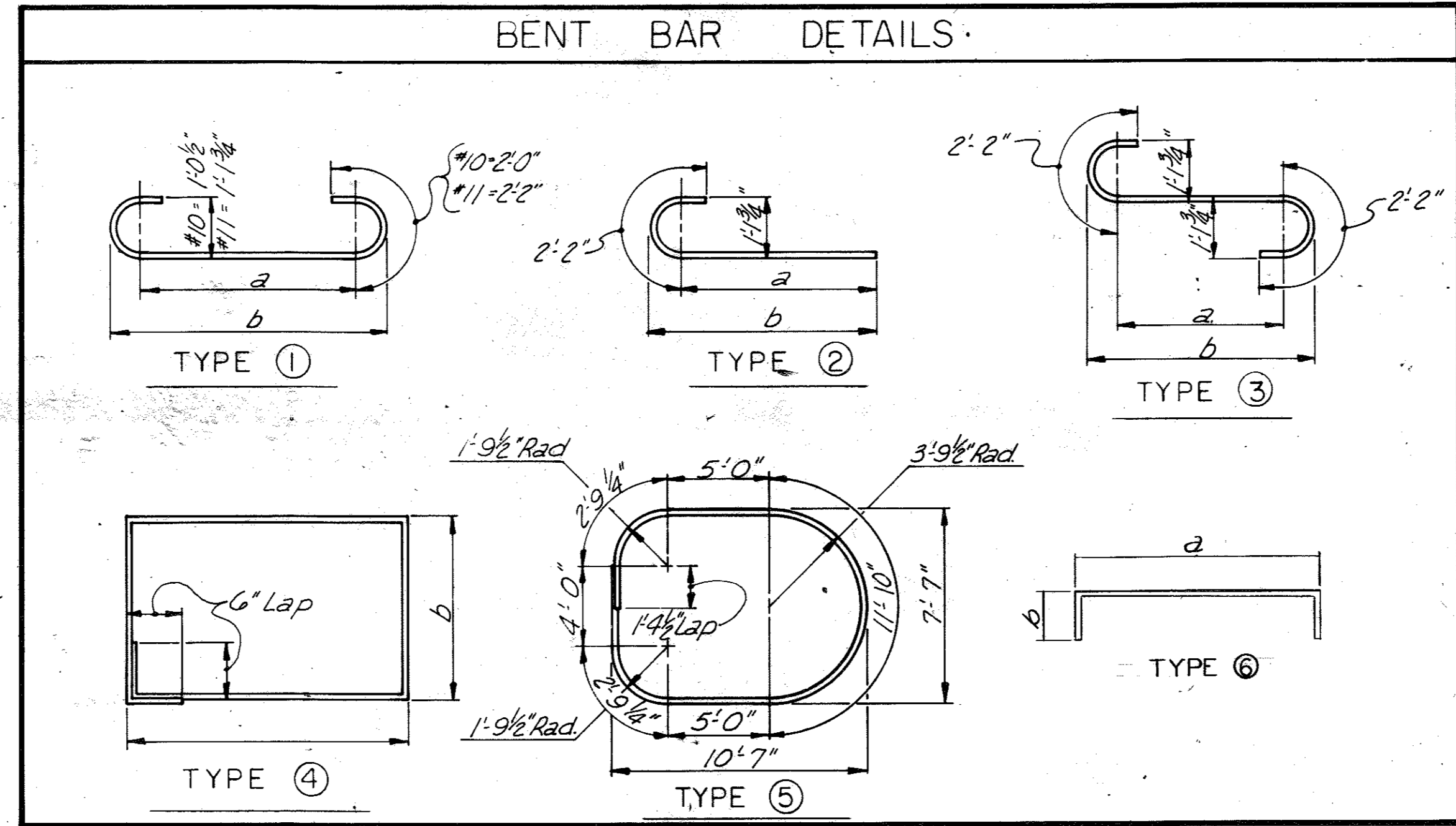
DESIGNED BY: C.R. JR. CHECKED BY: D.G.M. DATE: 11/18/69
 TRACED BY: D.G.M. CHECKED BY: D.G.M. DATE: 11/18/69
 REVISIONS: REBAR QUANTITIES - ADDITIONAL REBARS IN TOP OF COLUMNS PER 4-9-69
 TO FIT THIS STRUCTURE FROM 17550 J.K. DATE 11/18/69



VERTICAL CLEARANCE GAGE DETAILS
 Numerals and Graduation Marks shall be painted directly on concrete with 2 coats of paint. (See General Notes Sheet 4 for paint specifications)



LOCATION PLAN



NOT USED
 NOT USED
 See Revised
 bar list for
 footing steel
 below.

BILL OF REINFORCEMENT						FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
						7	KY.			2	6
MARK	TYPE	NUMBER OF BARS	SIZE	LENGTH Ft. In.	LOCATION	a		b			
						Ft.	In.	Ft.	In.		
PIER 2											
R1	(1)	94	#10	30'-8"	footing	26	8	27	8 1/2		
R2	911	110	#6	23'-8"	"						
R3	(1)	116	#11	15'-8"	Htg into Column	11	4	12	5 3/4		
R4	(2)	124	#11	14'-1"	"	11	11	12	5 1/8		
R5	Str.	240	#11	16'-10"	Column						
R6	(4)	34	#5	51'-1"	"	12	7	12	7		
R7	(3)	96	#11	15'-8"	"	11	4	12	5 3/4		
R8	(2)	72	#11	14'-1"	"	11	11	12	5 1/8		
R9	Str.	168	#11	31'-10"	"						
R10	(4)	64	#5	43'-1"	"	11	7	9	7		
R11	(2)	52	#11	14'-1"	"	11	11	12	5 1/8		
R12	(1)	60	#11	15'-8"	"	11	4	12	5 3/4		
R13	Str.	112	#11	36'-9"	"						
R14	Str.	112	#11	12'-9"	"						
R15	(5)	90	#5	32'-9"	"						
R16	Str.	66	#6	33'-7"	Webwall						
R17	Str.	66	#6	10'-9"	"						
R18	Str.	90	#8	39'-8"	"						
X1	G	14	#5	9'-8"	Top of Column	7	2	1	4		
X2	Str	8		9'-0"	"						
X3	"	4		10'-6"	"						
X4	"	4		7'-0"	"						
X5	G	4	#5	7'-8"	"	5	2	1	4		

ESTIMATE OF QUANTITIES		
ITEM	QUANTITIES	UNIT
CONCRETE CLASS "A"	1505.6	CU. YDS.
REINFORCEMENT	* 154173	LBS.
<small>*INCLUDES STEEL FOR 2 FOOTINGS</small>		

REVISION SHOWS QUANTITY OF STEEL FOR TWO FOOTINGS

REVISED BILL OF REINFORCEMENT						FOOTINGS		PIER 2		
MARK	TYPE	NUMBER OF BARS	SIZE	LENGTH FT. IN.	LOCATION	FT.	IN.	FT.	IN.	
R19	(2)	2	#10	15'-0"	FOOTING	13	0	13	6 1/2	
R20	(2)	2	#10	16'-0"	"	14	0	14	6 1/2	
R21	(2)	2	#10	17'-0"	"	15	0	15	6 1/2	
R22	(2)	2	#10	18'-0"	"	16	0	16	6 1/2	
R23	(2)	2	#10	19'-0"	"	17	0	17	6 1/2	
R24	(2)	2	#10	20'-0"	"	18	0	18	6 1/2	
R25	(2)	2	#10	21'-0"	"	19	0	19	6 1/2	
R26	(2)	2	#10	22'-0"	"	20	0	20	6 1/2	
R27	(2)	2	#10	23'-0"	"	21	0	21	6 1/2	
R28	(2)	2	#10	24'-0"	"	22	0	22	6 1/2	
R29	(2)	2	#10	25'-0"	"	23	0	23	6 1/2	
R30	(2)	62	#10	25'-8"	"	23	8	24	2 1/2	
R31	Str	4	#6	15'-6"	"					
R32	Str	4	#6	16'-0"	"					
R33	Str	4	#6	16'-6"	"					
R34	Str	4	#6	17'-0"	"					
R35	Str	4	#6	17'-6"	"					
R36	Str	4	#6	18'-0"	"					
R37	Str	4	#6	18'-6"	"					
R38	Str	4	#6	19'-0"	"					
R39	Str	4	#6	19'-6"	"					
R40	Str	4	#6	20'-0"	"					
R41	Str	4	#6	20'-6"	"					
R42	Str	54	#6	21'-0"	"					

BARS R19 THRU R30 WERE MADE ON SITE BY CUTTING R1 BARS
 BARS R31 THRU R42 WERE MADE ON SITE BY CUTTING R2 BARS
 STEEL QUANTITIES ARE IDENTICAL FOR BOTH FOOTINGS

GAGE DETAILS
 & QUANTITIES

BRIDGE OVER GREEN RIVER. SHEET 9

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
BUTLER
 BOWLING GREEN-OWENSBORO PARKWAY
 ROAD

STATION 2657+35[±] PROJECT NO. _____

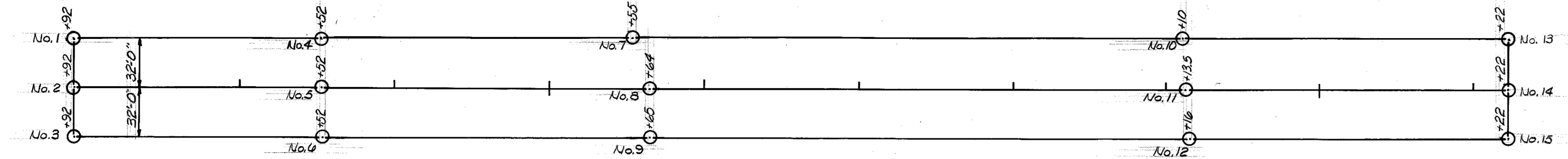
BRIDGE NUMBER	DRAWING NO. 17774	INDEX
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LETTING DATE

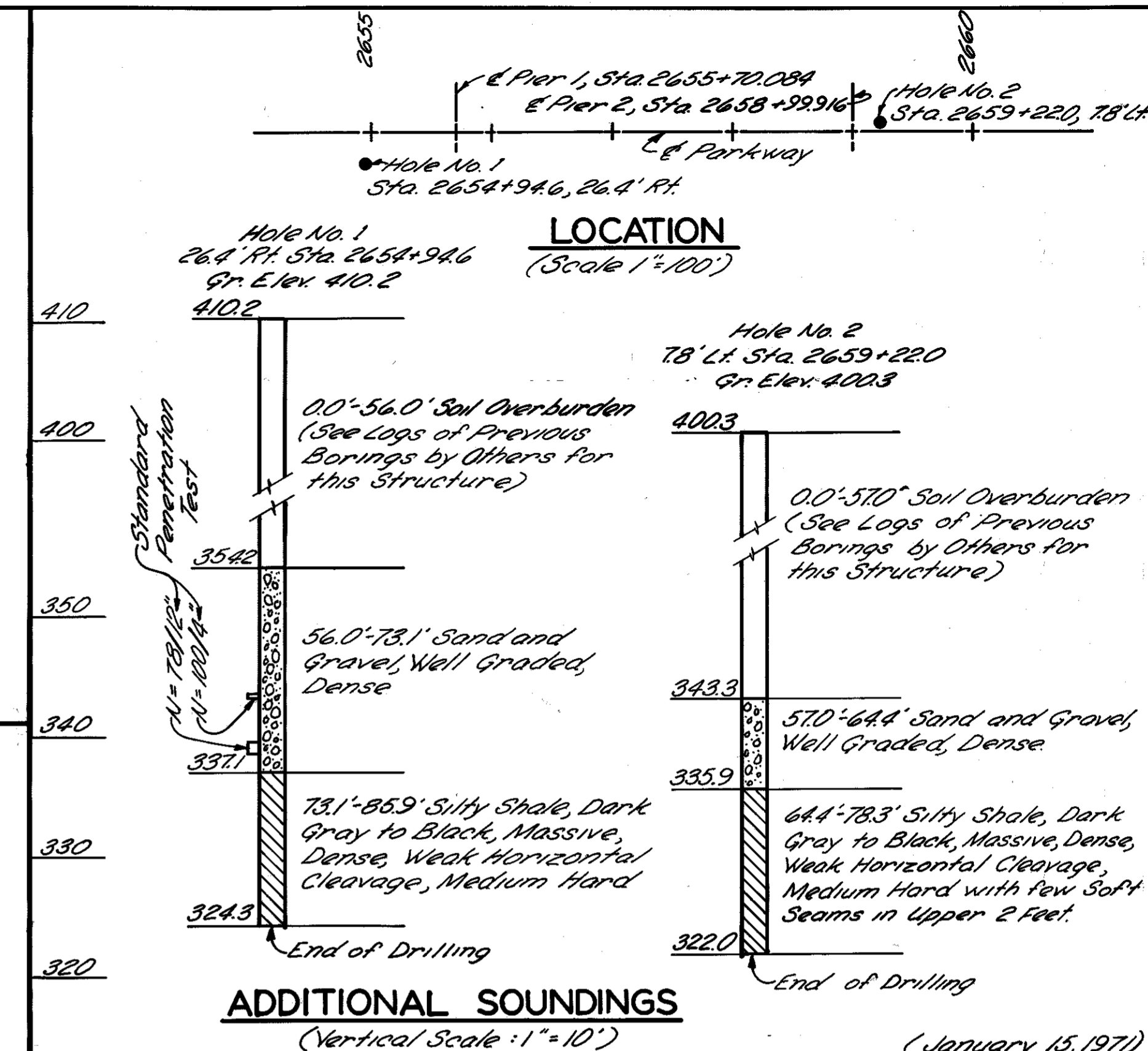
2657

2655

2660



LOCATION
(Scale 1"=50')



LOCATION
(Scale 1"=100')

PRELIMINARY SOUNDING LOG

ADDITIONAL SOUNDINGS
(Vertical Scale: 1"=10')

(January 15, 1971)

Hole No. 1
32' Lt. Sta. 2651+92
Gr. Elev. 408.10

Hole No. 2
on E Sta. 2651+92
Gr. Elev. 407.93

Hole No. 3
32' Rt. Sta. 2651+92
Gr. Elev. 407.69

Hole No. 4
32' Lt. Sta. 2653+52
Gr. Elev. 401.76

Hole No. 5
on E Sta. 2653+52
Gr. Elev. 402.16

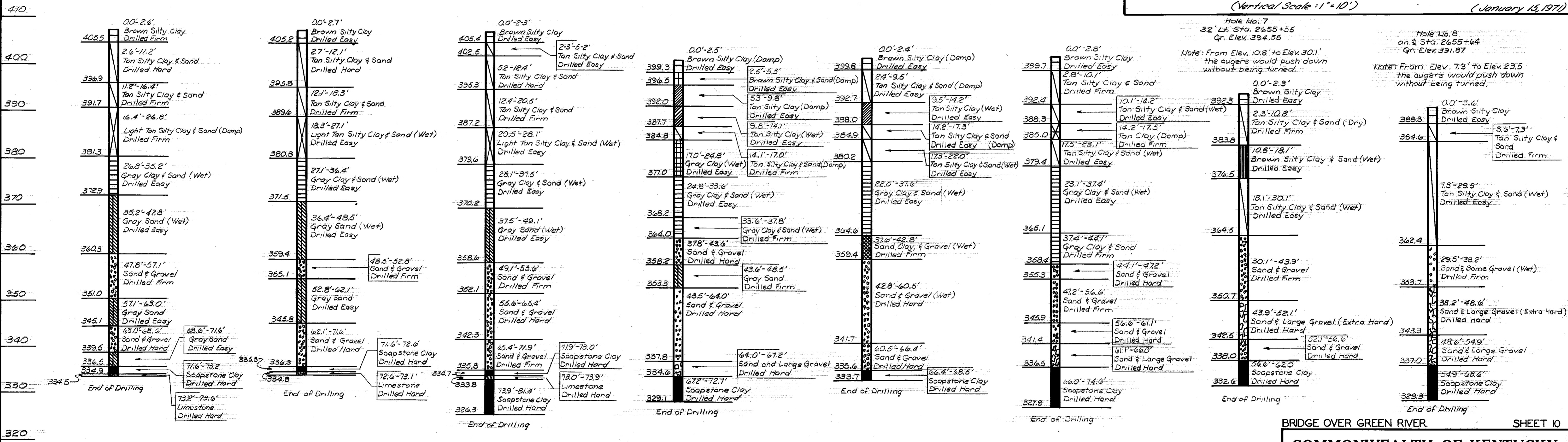
Hole No. 6
32' Rt. Sta. 2653+52
Gr. Elev. 402.47

Hole No. 7
32' Lt. Sta. 2655+55
Gr. Elev. 394.55

Hole No. 8
on E Sta. 2655+64
Gr. Elev. 391.87

Note: From Elev. 10.8' to Elev. 30.1' the augers would push down without being turned.

Note: From Elev. 7.3' to Elev. 29.5' the augers would push down without being turned.



Note: From Elev. 26.8' to Elev. 47.8' the augers would push down without being turned.

Note: From Elev. 18.3' to Elev. 48.5' the augers would push down without being turned.

Note: From Elev. 20.5' to Elev. 49.1' the augers would push down without being turned.

Note: From Elev. 0.0' to Elev. 14.1' and from Elev. 17.0' to Elev. 33.6' the augers would push down without being turned.

Note: From Elev. 0.0' to Elev. 37.6' the augers would push down without being turned.

Note: From Elev. 0.0' to Elev. 14.2' and from Elev. 17.5' to 37.4' the augers would push down without being turned.

Scale: 1"=10'

WALLACE HARLAN
SOUNDING SUPERVISOR

BRIDGE OVER GREEN RIVER. SHEET 10

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
BUTLER
BOWLING GREEN - OWENSBORO PARKWAY

ROAD
P. E. PROJECT NO.
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.

SOUNDINGS

17774

PRELIMINARY SOUNDING LOG

LETTING DATE

Hole No. 9
 33' Lt. Sta. 2655+65
 Gr. Elev. 335.69

Hole No. 10
 32' Lt. Sta. 2659+10
 Gr. Elev. 338.12

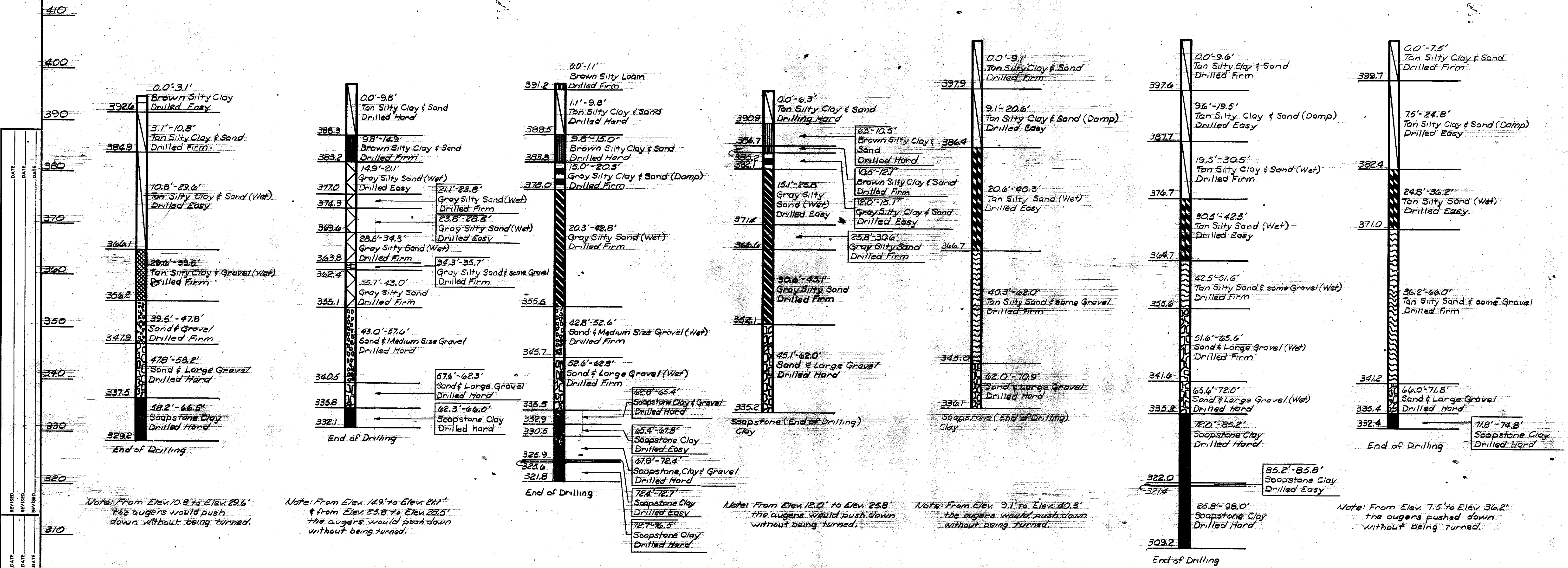
Hole No. 11
 on E. Sta. 2659+139
 Gr. Elev. 338.32

Hole No. 12
 32' Lt. Sta. 2659+116
 Gr. Elev. 337.24

Hole No. 13
 32' Lt. Sta. 2661+22
 Gr. Elev. 407.01

Hole No. 14
 on E. Sta. 2661+22
 Gr. Elev. 407.23

Hole No. 15
 32' Lt. Sta. 2661+22
 Gr. Elev. 407.23



Note: From Elev. 10.8' to Elev. 29.6' the augers would push down without being turned.

Note: From Elev. 14.9' to Elev. 21.1' & from Elev. 23.8' to Elev. 28.5' the augers would push down without being turned.

Note: From Elev. 12.0' to Elev. 25.8' the augers would push down without being turned.

Note: From Elev. 9.1' to Elev. 40.3' the augers would push down without being turned.

Note: From Elev. 9.6' to Elev. 19.5' and from Elev. 30.5' to Elev. 42.5' the auger would push down without being turned.

Note: From Elev. 7.5' to Elev. 36.2' the augers pushed down without being turned.

DESIGNED BY: _____
 CHECKED BY: _____
 TRACED BY: _____

BRIDGE OVER GREEN RIVER. SHEET 11

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
BUTLER
 BOWLING GREEN-OWENSBORO PARKWAY

ROAD
 STATION 2657+35² P. E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.

17774

SOUNDINGS



JESSE B. HILL
MAGGIE MAY HILL (WF)
140 ACRES
D.B. 56 P. 333
D.B. 53 P. 54
D.B. 50 P. 400
SEV. LT. 148.20
SEV. RT. 6.29 LAND LOCKED
PERM. 12/11/23.85
PERM. EASE. 1.08

JOHN W. LEACH
MILDRED LEACH (WF)
168 ACRES
D.B. 52 P. 641 & 719

JAMES E. ANNIS
ANNE ANNIS (WF)
116 ACRES
D.B. 52 P. 360 & 367

CARLTON S. CHAMPNEY
MAY CHAMPNEY (WF)
75 ACRES
D.B. 52 P. 315

BERTHA M. WELLS
WIDOW
2.25 ACRES
D.B. 52 P. 841

ZOYCO WILSON (WF)
BENICE WILSON (WF)
HERBERT WILSON (WF)
27 ACRES
D.B. 50 P. 72

LILLIE BOYD (WIDOW)
127.5 ACRES
D.B. 53 P. 301

W. T. OVERSOLE
75 ACRES
D.B. 52 P. 311

P 2073
TOM NEAL
NELLIE NEAL (WF)
59 ACRES
D.B. 48 P. 511
SEV. LT. 596
SEV. RT. 39.88
PERM. 12/13.16
TEMP EASE. 0.1

MAY JAMES (WIDOW)
65 ACRES
D.B. 55 P. 342

F. BURDEN
MAGGIE BURDEN (WF)
5 ACRES
D.B. 52 P. 354

W. C. ZEMKE JR.
NORMA ZEMKE (WF)
15 ACRES
D.B. 52 P. 21

CHARLES P. JOHNSON
MARY JOHNSON (WF)
170 ACRES
D.B. 52 P. 28

ALESS. T. LANKEFOOD (WIDOW)
98 ACRES
D.B. 52 P. 1

LOUISE M. MATHEWS SMITH
J. HERSCHEL SMITH (HUSB)
77.6 ACRES
D.B. 79 P. 51 & 5

ROBERT RAMOS
JANIS AMOS (WF)
2.8 ACRES
D.B. 75 P. 105

LETTIE JIMMERSON ESTATE
DEWEY MORRIS HEIRS
ELIZABETH WOODWARD
SCENA ICE
CHRISTABEL MASON
THESS RA
IDA BAILE
GLADYS MORRIS
MARY ROBERTS
DAVID MORRIS
JAMES E. MORRIS HEIRS
GLADYS ALL NAMES UNKNOWN
SELVIA J.
OLLIE LEE HEIRS
CARY ON LAST NAME UNKNOWN
GEORGE E. MORRIS (SINGLE)
75 ACRES 1000 P. 170

STA 1656+00
END B.O.P. 1173



JESSE B. HILL
MAGGIE MAY HILL (WF)
180 ACRES
D.B. 56 P. 333
D.B. 53 P. 54
D.B. 50 P. 400
SEV. LT. 148.20
SEV. RT. 6.89 LANDLOCKED
PERM. R/W 23.85
PERM. EASE. 1.08

JOHN W. LEACH
MILDRED LEACH (WF)
168 ACRES
D.B. 82 P. 641 & 719
SEV. LT. 102.53
SEV. RT. 14.41 LANDLOCKED
PERM. R/W 51.00
TEMP. EASE. 4.006

JAMES C. ANNIS
ANN L. ANNIS (WF)
116 ACRES
D.B. 82 P. 960 & 961, 962, 963
SEV. LT. 115.21
PERM. R/W 0.79

CARLTON S. CHAMPNEY
MAY CHAMPNEY (WF)
75 ACRES
D.B. 82 P. 848
SEV. LT. 0.72
PERM. R/W 0.08
TEMP. EASE. 0.07

BERTHA M. WILTINGHAM
WIDOW
2.25 ACRES
D.B. 82 P. 841
NO TIME TAKEN

ZOSCOE WILSON FEMALE
BERNICE WILSON FEMALE
HERBERT WILSON (HUSB)
22 ACRES
D.B. 50 P. 711
SEV. LT. 12.85
SEV. RT. 0.40
PERM. R/W 5.22

LILLIE ADAMS (WIDOW)
22.5 ACRES
D.B. 83 P. 8001
SEV. LT. 13.78
SEV. RT. 2.78
PERM. R/W 4.95

TOM NEAL
NELLIE NEAL (WF)
59 ACRES
D.B. 48 P. 511
SEV. LT. 596
SEV. RT. 39.88
PERM. R/W 13.16
TEMP. EASE. 0.7

MAY JAMES (WIDOW)
65 ACRES
D.B. 53 P. 342
SEV. LT. 45.44
PERM. R/W 17.56

LOUIS BURDEN
LOUIS BURDEN (WF)
7.5 ACRES
D.B. 63 P. 354
SEV. LT. 49.88
PERM. R/W 2.07
TEMP. EASE. 0.11

W.C. ZEEM
NORMA JEAN ZEEM (WF)
16.5 ACRES
D.B. 77 P. 221
SEV. LT. 241
PERM. R/W 0.09

CHARLES D. JOHNSON
MAY JOHNSON (WF)
170 ACRES
D.B. 62 P. 78
SEV. LT. 60.82
SEV. RT. 55.38
PERM. R/W 21.58
PERM. EASE. 0.12

ALETA T. LANFORD (WIDOW)
95 ACRES
D.B. 82 P. 1
SEV. LT. 12.17
SEV. RT. 64.70 LANDLOCKED
PERM. R/W 13.07
PERM. EASE. 0.1
TEMP. EASE. 0.1

LOUISE MATTHEWS SMITH
J. HERSCHEL SMITH (HUSB)
77.6 ACRES
D.B. 79 P. 51 & 55
SEV. LT. 62.46
PERM. R/W 0.64

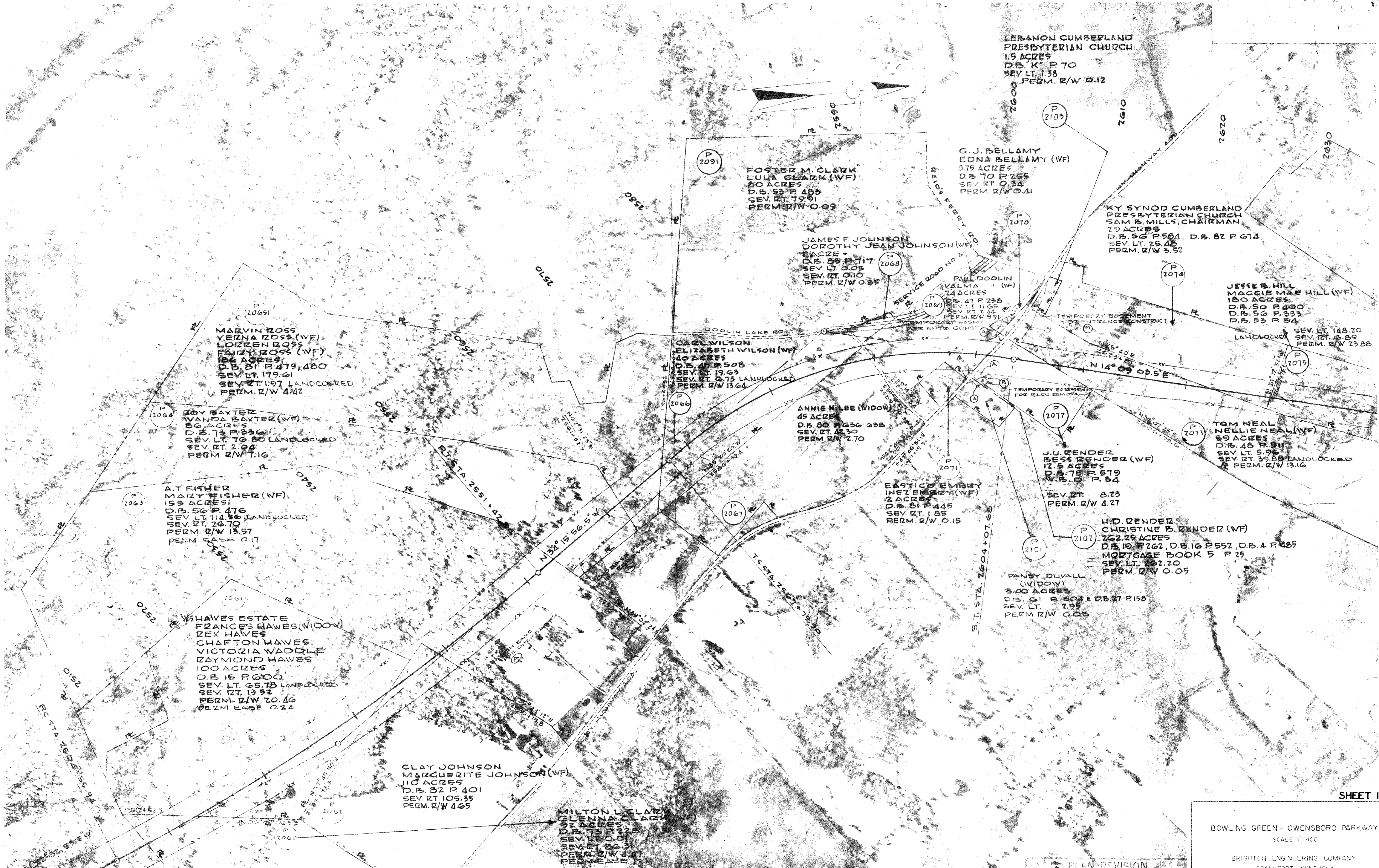
ROBERT P. AMOS
JANIS AMOS (WF)
2.8 ACRES
D.B. 75 P. 165
SEV. LT. 136
PERM. R/W 0.94
TEMP. EASE. 0.02

LIZZIE JIMMERSON ESTATE
DEVEY MORRIS HEIRZ
ELIZABETH WOODWARD
SCENA ICE
CHRISTABELLE MASON
THESSA RAY
IDA BAILEY
GLADYS MORRIS
MARY ZOSKOW
DAVID MORRIS

JAMES E. MORRIS HEIRZ
GLADYS J. LAST NAMES UNKNOWN
OLLIE LEE HEIRZ
CARYLON J. LAST NAME UNKNOWN
GEORGE E. MORRIS (SINGLE)
23.5 ACRES D.B. 82 P. 710

STA. 2656+00
END B.O.P. 112-3

STA. 2658+73
BEGIN B.O.P. 112-4



P 2065
 MARVIN ZOSS
 YEZNA ZOSS (WF)
 LOIZEN ZOSS
 FAIZY ZOSS (WF)
 106 ACRES
 D.B. 81 P. 479, 480
 SEV. LT. 179.61
 PERM. R/W 4.42

P 2064
 ROY BAXTER
 VANDA BAXTER (WF)
 56 ACRES
 D.B. 73 P. 336
 SEV. LT. 76.80 LANDLOCKED
 PERM. R/W 7.16

P 2063
 A.T. FISHER
 MAZY FISHER (WF)
 155 ACRES
 D.B. 56 P. 476
 SEV. LT. 114.56 LANDLOCKED
 SEV. RT. 26.70
 PERM. R/W 13.57
 PERM. EASE 0.17

P 2061
 W. HAVES ESTATE
 FRANCES HAVES (WIDOW)
 REX HAVES
 CHAFTON HAVES
 VICTORIA WADDE
 RAYMOND HAVES
 100 ACRES
 D.B. 15 P. 600
 SEV. LT. 65.78 LANDLOCKED
 SEV. RT. 13.52
 PERM. R/W 20.46
 PERM. EASE 0.24

P 2062
 CLAY JOHNSON
 MARQUERITE JOHNSON (WF)
 110 ACRES
 D.B. 82 P. 401
 SEV. RT. 105.35
 PERM. R/W 4.65

P 2060
 MILTON L. CLARK
 GLENNA CLARK (WF)
 92 ACRES
 D.B. 78 P. 222
 SEV. LT. 0.01
 SEV. RT. 86.3
 PERM. R/W 4.47
 PERM. EASE 1.11

P 2091
 FOSTER M. CLARK
 LULA CLARK (WF)
 80 ACRES
 D.B. 53 P. 488
 SEV. RT. 79.91
 PERM. R/W 0.69

P 2068
 JAMES F. JOHNSON
 DOROTHY JEAN JOHNSON (WF)
 1 ACRES +
 D.B. 88 P. 717
 SEV. LT. 0.05
 SEV. RT. 0.10
 PERM. R/W 0.85

P 2066
 CARL WILSON
 ELIZABETH WILSON (WF)
 40 ACRES
 D.B. 47 P. 508
 SEV. LT. 19.63
 SEV. RT. 6.75 LANDLOCKED
 PERM. R/W 13.64

P 2067
 ANNIE N. LEE (WIDOW)
 45 ACRES
 D.B. 80 P. 636, 638
 SEV. RT. 47.30
 PERM. R/W 2.70

P 2071
 EASTON EMBRY
 INEZ EMBRY (WF)
 2 ACRES
 D.B. 81 P. 445
 SEV. RT. 1.85
 PERM. R/W 0.15

P 2077
 J.U. ZENDER
 BESS ZENDER (WF)
 12.8 ACRES
 D.B. 75 P. 579
 W.B. 0 P. 54
 SEV. RT. 8.23
 PERM. R/W 4.27

P 2102
 H.D. ZENDER
 CHRISTINE B. ZENDER (WF)
 262.25 ACRES
 D.B. 19 P. 262, D.B. 16 P. 552, D.B. 4 P. 485
 MORTGAGE BOOK 5 P. 25
 SEV. LT. 262.20
 PERM. R/W 0.05

P 2101
 PANSY DUVALL
 (WIDOW)
 3.00 ACRES
 D.B. 61 P. 504 & D.B. 27 P. 158
 SEV. LT. 7.95
 PERM. R/W 0.05

P 2103
 G.J. BELLAMY
 EDNA BELLAMY (WF)
 0.79 ACRES
 D.B. 70 P. 255
 SEV. RT. 0.34
 PERM. R/W 0.41

P 2070
 KY SYNOD CUMBERLAND
 PRESBYTERIAN CHURCH
 SAM B. MILLS, CHAIRMAN
 29 ACRES
 D.B. 56 P. 561, D.B. 82 P. 674
 SEV. LT. 25.46
 PERM. R/W 3.52

P 2074
 JESSE B. HILL
 MAGGIE MAE HILL (WF)
 180 ACRES
 D.B. 50 P. 480
 D.B. 56 P. 333
 D.B. 53 P. 54
 SEV. LT. 148.20
 SEV. RT. 6.89
 PERM. R/W 23.88

P 2075
 TOM NEAL
 NELLIE NEAL (WF)
 59 ACRES
 D.B. 48 P. 511
 SEV. LT. 5.96
 SEV. RT. 39.88 LANDLOCKED
 PERM. R/W 13.16