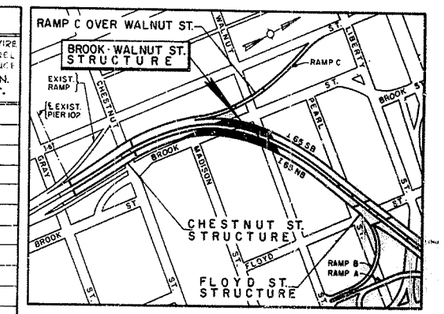
FED. ROAD DIST.	STATE	FUN. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
7	KY.			

KENTUCKY DEPARTMENT OF HIGHWAYS
JEFFERSON COUNTY
NORTH-SOUTH EXPRESSWAY
EXPRESSWAY OVER BROOK - WALNUT ST.

REFERENCE AND ESTIMATE OF QUANTITIES

ITEM	SHEET NUMBER	CONCRETE CLASS A (CU.YDS.)	STEEL REINFORCEMENT (LBS.)	STRUCTURE EXCAVATION (COMMON) (CU.YDS.)	POROUS BACKFILL (CU.YDS)	6" DIA. PERF. PIPE (LIN.FT.)	CONCRETE PILES (LIN.FT.) (See General Notes for Description) ALTERNATE A FURNISHING	ALTERNATE A DRIVING	ALTERNATE B FURNISHING	ALTERNATE B DRIVING	ALTERNATE C FURNISHING	ALTERNATE C DRIVING	ALTERNATE D FURNISHING	ALTERNATE D DRIVING	ALTERNATE E FURNISHING	ALTERNATE E DRIVING	ALTERNATE F FURNISHING	ALTERNATE F DRIVING	STRUCTURAL STEEL (LUMP SUM) ①	SHEAR CONNECTORS (LUMP SUM) ②	SINGLE-RAIL ALUMINUM HANDRAIL (LIN.FT.)	MEDIAN BARRIER GUARD RAIL DOUBLE FACE (LIN.FT.)	MEDIAN BARRIER GUARD RAIL WING SECTION (EACH)	6" DIAM. DRAIN PIPE L.F.	6' WIRE PANEL FENCE LIN. FT.
TITLE SHEET																									
LAYOUT SHEET	2																								
SOUTH ABUTMENT DETAILS	3 to 9, 16 & 17	1,647.5	191,536	1,295	2,065	315	11,060	11,060	11,060	11,060	11,060	11,060	11,060	11,060	11,060	11,060	11,060	11,060							
PIER 1 DETAILS	10 to 12 & 17	1010.7	67,113	680			3,730	3,730	3,730	3,730	3,730	3,730	3,730	3,730	3,730	3,730	3,730	3,730							
PIER 2 DETAILS	13 & 17	69.6	12,778	70			590	590	590	590	590	590	590	590	590	590	590	590							
PIER 3 DETAILS	14 & 17	71.5	10,625	70			560	560	560	560	560	560	560	560	560	560	560	560							
PIER 4 DETAILS	15 to 17	266.6	35,354	360			2,390	2,390	2,390	2,390	2,390	2,390	2,390	2,390	2,390	2,390	2,390	2,390							
NORTH ABUTMENT DETAILS	18 to 22	796.2	94,914	810	780	175	6,260	6,260	6,260	6,260	6,260	6,260	6,260	6,260	6,260	6,260	6,260	6,260							
NORTH WING WALL DETAILS	23 & 24	169.3	16,908		185	70	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590							
TOE WALL DETAILS	25	100.5	5,181	180	30	130																			
SOUNDINGS	28																								
PILE RECORD	29 to 30																								
SUPERSTRUCTURE DETAILS DECK	31 to 52	1,107.4	2[illegible],368																						
STRUCTURAL STEEL DETAILS	53 to 66																								
SHEAR CONNECTOR DETAILS	67 & 68																								
SHOE DETAILS	69 & 70																								
EXPANSION DAM DETAILS	71 to 77																								
STRUCTURAL STEEL NOTES	78																								
HANDRAIL AND MEDIAN BARRIER DETAILS	79																								
CONSTRUCTION ELEVATIONS	80 to 84																								
ANCHOR BOLT LAYOUT	85 & 86																								
DRAINAGE DETAILS	87																								
6 FT. WIRE PANEL FENCE DETAILS	88																								
TOTALS		4,673.3	[illegible]	3,265	3,080	890	26,180	26,180	26,180	26,180	26,180	26,180	26,180	26,180	26,180	26,180	26,180	26,180			743	336	2	70	310
																					743	336	2	70	310



SITE PLAN

0 400 800 1200

SCALE IN FEET

BILL OF INCIDENTAL MATERIAL

ITEM	UNIT	AMOUNT	LOCATION
1" PREMOULDED EXP. JOINT MATERIAL	SQ. FT.	1125	SEE SHEET 2
1/2" PREMOULDED EXP. JOINT MATERIAL	SQ. FT.	140	SEE SHEET 2
24 OZ. COPPER STRIPS	L.F.	322	SEE SHEET 2
ABUT. SEAT DRAINS & PIPE	EACH	22	SEE SHEETS 5-8 & 87

NOTE: The Bill of Incidental Material is approximate only and the Contractor is responsible for furnishing enough material to complete the work in accordance with the Plans and Specifications.

GENERAL NOTES

SPECIFICATIONS: Kentucky Department of Highways. 1956 Standard with Amendments.

DESIGN LOAD: Bridge designed for H20-S13-44 loading as specified in 1957 AASHO Specifications or alternate loading of two 24 kip axles spaced 4 feet apart, whichever produces the greater stress. Slabs are designed for 16 kip wheel load.

DEAD LOAD: Includes 20 Lbs./Sq. Ft. for future wearing surface in addition to weights of permanent components of the structure.

DESIGN STRESSES: For reinforced concrete: f_c = 20,000 psi. f_s = 1,200 psi, M = 200 psi for Embankment. M = 300 psi for Σ_o, f_c' = 3,000 psi, n = 10.

For structural steel: f_s = 18,000 psi for A7 and A373 steel
f_s = 22,000 (min.) psi for A242 steel

CONCRETE: Class "A" Concrete is to be used throughout, except in piles. Class "D" Concrete is to be used in piles.

REINFORCEMENT: Intermediate or hard grade reinforcement shall be used in accordance with ASTM A15-581 for billet steel or A16-59T for rail steel. Dimensions shown from face of concrete to bars are clear distances. Spacing of bars is from center to center of bars.

BEVELED EDGES: All exposed edges shall be beveled 7/8" unless otherwise shown.

EXPANSION JOINT MATERIAL, COPPER STRIP, TAR PAPER, CLASS E WATERPROOFING, ABUT. SEAT DRAINS & PIPE, AND HOT POURED ASPHALT-TYPE FILLER: The cost of these items is to be included in the unit price bid for Class "A" Conc.

FLOOR DRAINS: The cost of this item is to be included in the "Lump Sum Bid" for structural steel.

DRAIN PIPE: Drain pipe may be either wrought iron pipe or seamless steel pipe in accordance with the note on Sheet 87 of the Plans. Cast iron fittings shall be included in the price bid per linear ft. for drain pipe.

POROUS BACKFILL: Under this item the Contractor shall furnish and place run of bank gravel fill or crushed stone meeting gradation requirements as shown on the Plans or as ordered by the Engineer. See Sht. No 2

STRUCTURAL STEEL: Paint, Materials, Connections, Mill Test Reports, Steel Finish, Dimensions, Shop Plans, Shop Assembly and Reaming, See Structural Steel Notes Sheet No. 78.

PLACING FILLS: Embankment shall be placed in compacted layers to bottom of footing before driving piles.

PILING: Piling shall be driven to refusal or to sustain a minimum load of 50 tons per pile. Test piles shall be driven where designated on the Plans to determine the length required. All test piles shall be accurately located so that they may be used in the finished structure.

ALTERNATE TYPES OF PILES: The Contractor shall use one of the following types throughout:

ALTERNATE A - 14" Precast Concrete Piles, Std. Dwg. No. P2
ALTERNATE B - 14" Precast prestressed concrete piles, Std. Dwg. No. P23
ALTERNATE C - 14" Cast-in-Place seamless or welded steel shell concrete pile, Std. Dwg. No. P20
ALTERNATE D - 14" Nominal Butt Diameter Cast-in-Place steel step-uniform shell concrete piles, Std. Dwg. No. P21
ALTERNATE E - 14" Minimum Nominal Butt diameter Cast-in-Place steel step-tapered shell concrete piles, Std. Dwg. No. P22
ALTERNATE F - 14" Minimum Nominal Butt diameter Cast-in-Place steel step uniform shell concrete pile, Std. Dwg. No. P24

SHEAR CONNECTORS: "Lump Sum Bid" for shear connectors shall be full payment for all shear connectors, welding and welding materials patent royalties and all labor and materials necessary to weld the shear connectors in place in accordance with the Plans and Specifications.

ALTERNATE TYPES OF SHEAR CONNECTORS: The Contractor shall use one of the following alternate types throughout:
Alternate "G" 5/8" x 4" ϕ spirals; Alternate "H" 3/4" x 4" studs; Alternate "J" 4" Channel #5.4#

TEMPORARY SUPPORTS: For composite beams temporary supports or shoring will not be permitted under the steel girders when pouring the concrete floor slab or when taking "top of steel" elevations.

WELDED STUDS: Studs used for composite shear developers shall be welded with approved welding equipment.

ELEVATION DATUM: Mean sea level, U.S.C.&G. 1929 General Readjustment.

TEMPORARY SHEET PILING: Cost of furnishing and placing this item at the South Abutment shall be included in and incidental to the unit price bid for Structure Excavation Common per Cubic Yard.

① Estimated weight does not include weld material, does include lead Pls. 1,631,185 Lbs.

② Alternate G - 15,240 Lbs.
Alternate N - 12,280 Lbs.
Alternate J - 18,280 Lbs.

STD. DWGS.
G 351
H 112
P 2
P 20
P 21
P 22
P 23
P 24
17.03
17.08

SHEET 1 OF 88

PREPARED AND SUBMITTED BY
BARSTOW & MULLIGAN
Robert D. Mulligan
OCTOBER 11, 1961
DATE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWY. OVER BROOK ST. & WALNUT ST.
TITLE SHEET

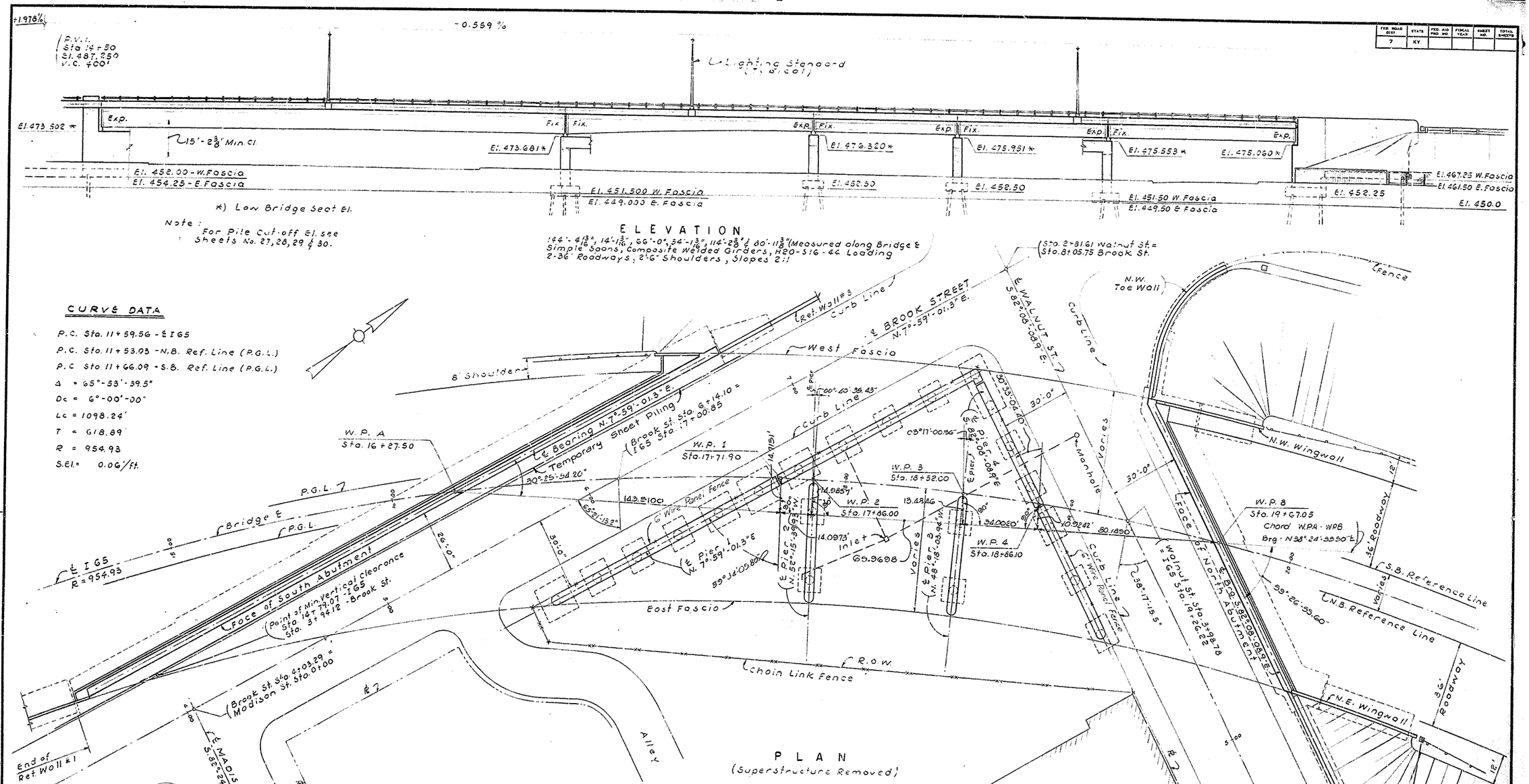
STATION 17+00.85 — PROJECT NO. I 65-6(51)134

BRIDGE NUMBER — DRAWING No. 14843

REVISED — DATE — REVISED — DATE — REVISED — DATE — REVISED — DATE

DESIGNED BY E.F.V. — CHECKED BY E.K. — DRAWN BY F.B. — CHECKED BY E.K.

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



ELEVATION

144'-4 3/8", 14'-1 3/16", 66'-0", 54'-1 3/16", 114'-2 3/8" & 80'-11 3/8" (Measured along Bridge ℄)
Simple Spans, Composite Welded Girders, H20-S16-44 Loading
2-36' Roadways; 2'-6" Shoulders, Slopes 2:1

PLAN
(Superstructure Removed)

CURVE DATA

P.C. Sta. 11+59.56 - ℄ I 65
P.C. Sta. 11+53.03 - N.B. Ref. Line (P.G.L.)
P.C. Sta. 11+66.09 - S.B. Ref. Line (P.G.L.)
Δ = 65°-53'-39.5"
Dc = 6°-00'-00"
Lc = 1098.24'
T = 618.89'
R = 954.93
S.El. = 0.06'/ft.

LIST OF INCIDENTAL MATERIAL

ITEM	NO. OF PIECES	SIZE-DESCRIPTION	LOCATION
Prem. Exp. Jt. Mat'l.	1	5'-3" x 1" x 27'-4"	S. Abut. - Vert. Jt.
" " " "	1	5'-3" x 1" x 28'-6"	" " "
" " " "	1	5'-3" x 1" x 30'-10"	" " "
" " " "	1	5'-3" x 1" x 32'-1"	" " "
" " " "	1	2'-3" x 1" x 17'-3"	N. " West Wall
" " " "	1	4'-6" x 1" x 30'-9"	" " Vert. Jt.
" " " "	1	4'-6" x 1" x 29'-9"	" " "
" " " "	1	4'-6" x 1" x 28'-0"	" " "
" " " "	1	2'-3" x 1" x 18'-3"	" " East Wall
" " " "	2	1'-3" x 1" x 6'-4"	" " Toe Walls
" " " "	2	0'-3" x 1/2" x 30'-0"	S. " Vert. Jt.
" " " "	2	0'-3" x 1/2" x 31'-0"	" " "
" " " "	4	0'-3" x 1/2" x 34'-9"	" " "
" " " "	2	0'-3" x 1/2" x 16'-0"	N. " West Wall
" " " "	2	0'-3" x 1/2" x 31'-9"	" " Vert. Jt.
" " " "	2	0'-3" x 1/2" x 32'-6"	" " "

ITEM	NO. OF PIECES	SIZE-DESCRIPTION	LOCATION
Prem. Exp. Jt. Mat'l.	2	0'-3" x 1/2" x 28'-6"	N. Abut. Vert. Jt.
" " " "	2	0'-3" x 1/2" x 17'-0"	" " East Wall
" " " "	4	0'-3" x 1/2" x 7'-6"	" " Toe Walls
Copper Strip	1	x 27'-0"	S. " Ref. Wall #1
" "	1	x 30'-0"	" " Vert. Jt.
" "	1	x 31'-0"	" " "
" "	2	x 34'-9"	" " "
" "	1	x 23'-6"	" " Ref. Wall #3
" "	1	x 16'-0"	N. " West Wall
" "	1	x 31'-9"	" " Vert. Jt.
" "	1	x 32'-6"	" " "
" "	1	x 28'-6"	" " "
" "	1	x 17'-0"	" " East Wall
" "	2	x 7'-6"	" " Toe Walls

2" 1" 2"

POROUS BACKFILL

DESCRIPTION: Porous Backfill shall consist of run-of-bank gravel or a well graded mixture of coarse aggregate such as hard durable pebbles, slag or broken stone.

REQUIREMENTS: Porous Backfill shall meet the gradation requirements of No. 48 Standard size Coarse Aggregate.

CONSTRUCTION METHODS: Porous Backfill shall be placed in layers not exceeding 6" in depth and shall be constructed in accordance with Article 2.4.5.F of Specifications.

MEASUREMENT & PAYMENT: The quantity of Porous Backfill to be paid for under this item will be the number of cubic yards measured in place between the payment lines as shown or indicated on the plans.

Any material excavated outside the limits described above shall be replaced with Porous Backfill meeting the requirements of this specification and the material, equipment and labor required for this work shall be furnished at the Contractors expense. The unit price bid shall include the cost of furnishing all labor, material and equipment necessary to complete the work.

SHEET 2 OF 88

DESIGNED BY: E.K. CHECKED BY: E.K. DATE
DETAILED BY: T.A.B. CHECKED BY: E.K. DATE
TRACED BY: E.K. CHECKED BY: DATE
REVISED: DATE
REVISED: DATE
REVISED: DATE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

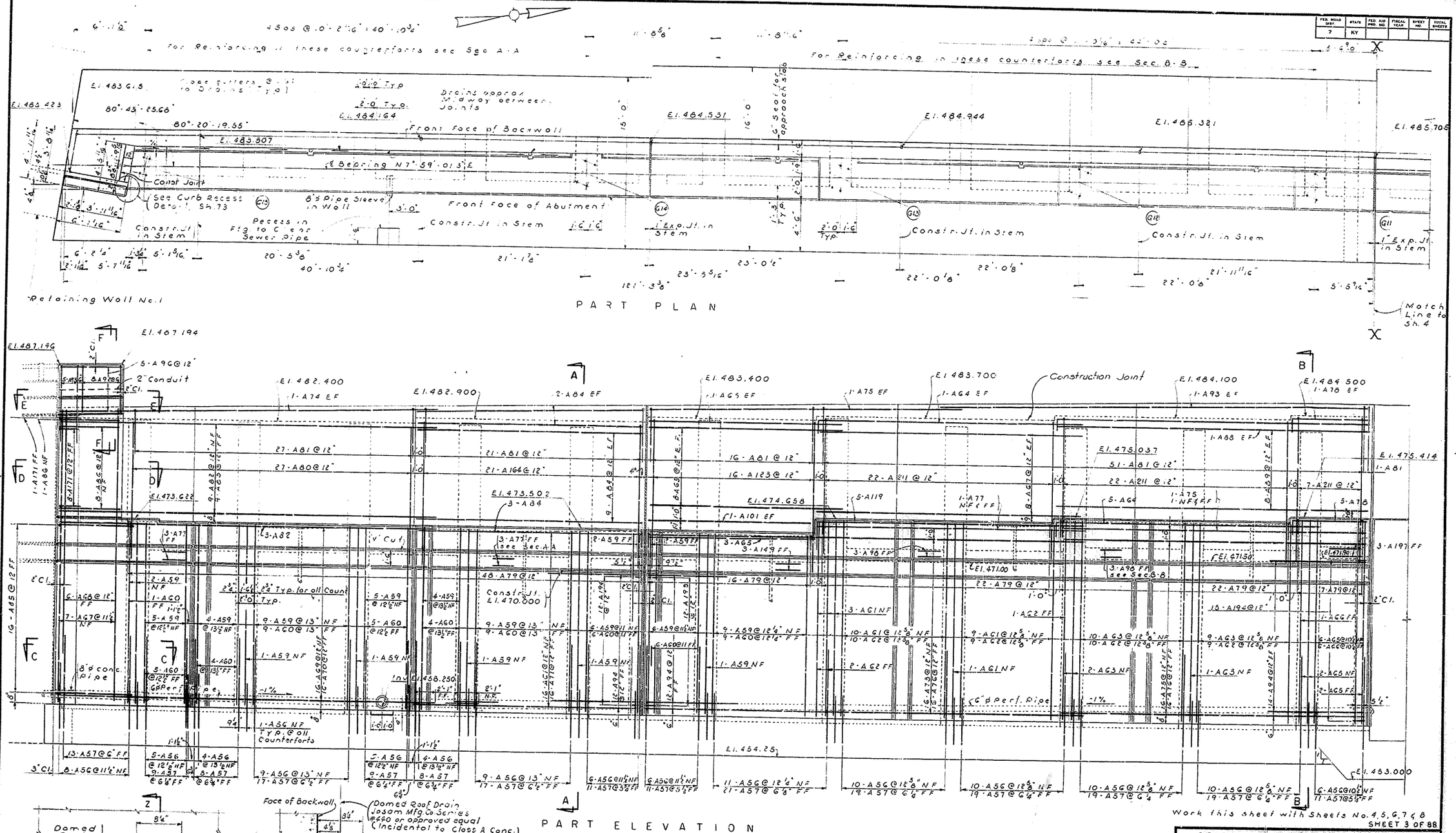
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
LAYOUT SHEET

STATION 17+00.85 — PROJECT NO. I65-6(9)134

BRIDGE NUMBER — DRAWING No. 14843 — SHEET

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY				



Note: Bars in the bridge seat are to be accurately located in accordance with the plans so that they will not interfere with drilling of the anchor bolt holes. All keys are ½ the width of the section unless otherwise shown.
For Anchor Bolt Layout see Sh. No. 85

DESIGNED BY R.E.M. CHECKED BY E.P. DATE
DETAILED BY R.S.M. CHECKED BY O.P. DATE
TRACED BY W.T. CHECKED BY O.P. DATE
REVISED DATE
REVISED DATE
REVISED DATE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

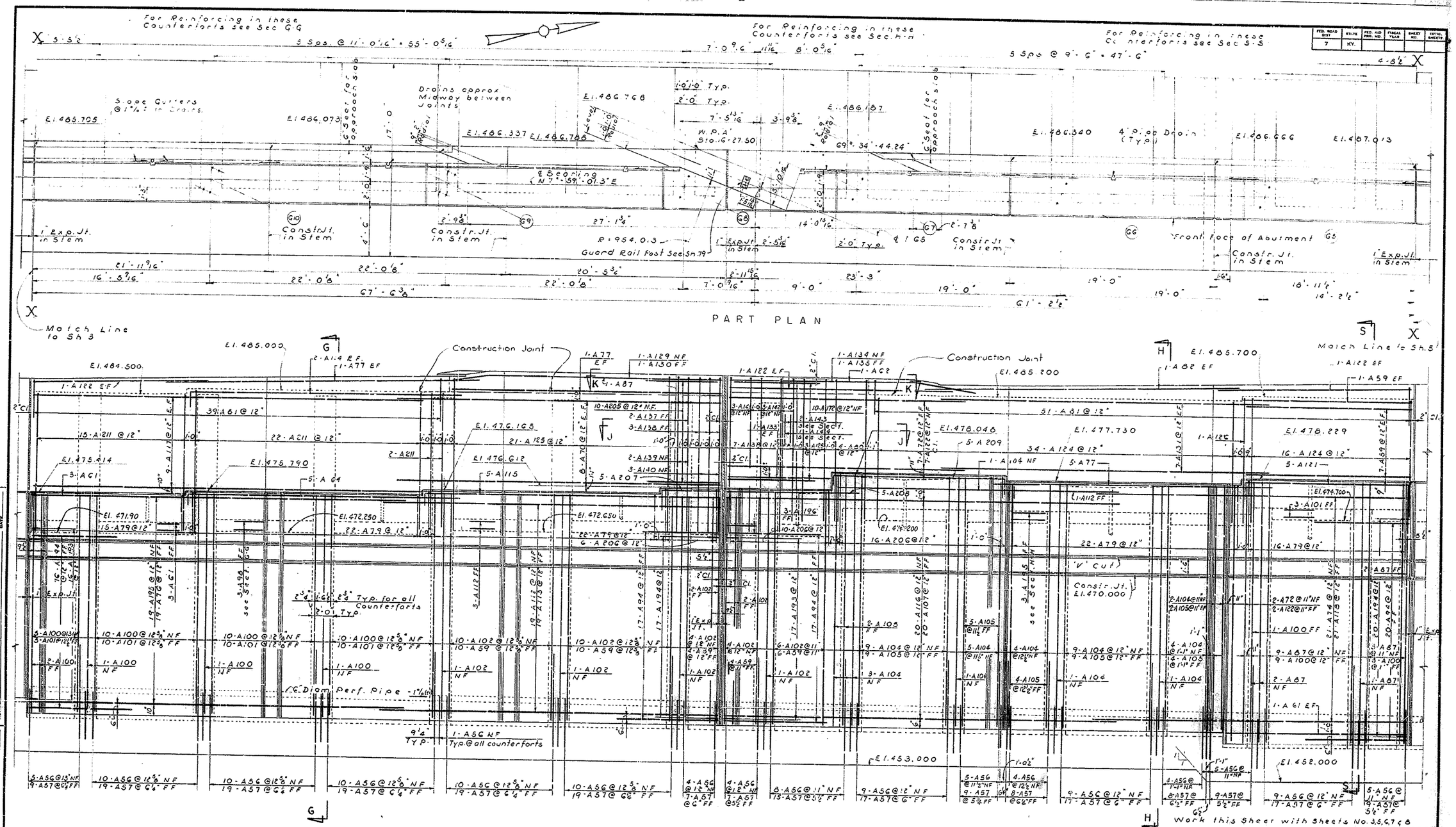
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SOUTH ABUTMENT DETAILS

STATION 17+00.85 — PROJECT NO. 165-6(9)134

BRIDGE NUMBER — DRAWING NO. 148-3 — INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



PART ELEVATION

REVISED	DATE
REVISED	DATE
REVISED	DATE

DESIGNED BY	R.E.M.	CHECKED BY	E.P.
DETAILED BY	R.E.M.	CHECKED BY	O.P.
TRACED BY	W.T.	CHECKED BY	O.P.

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

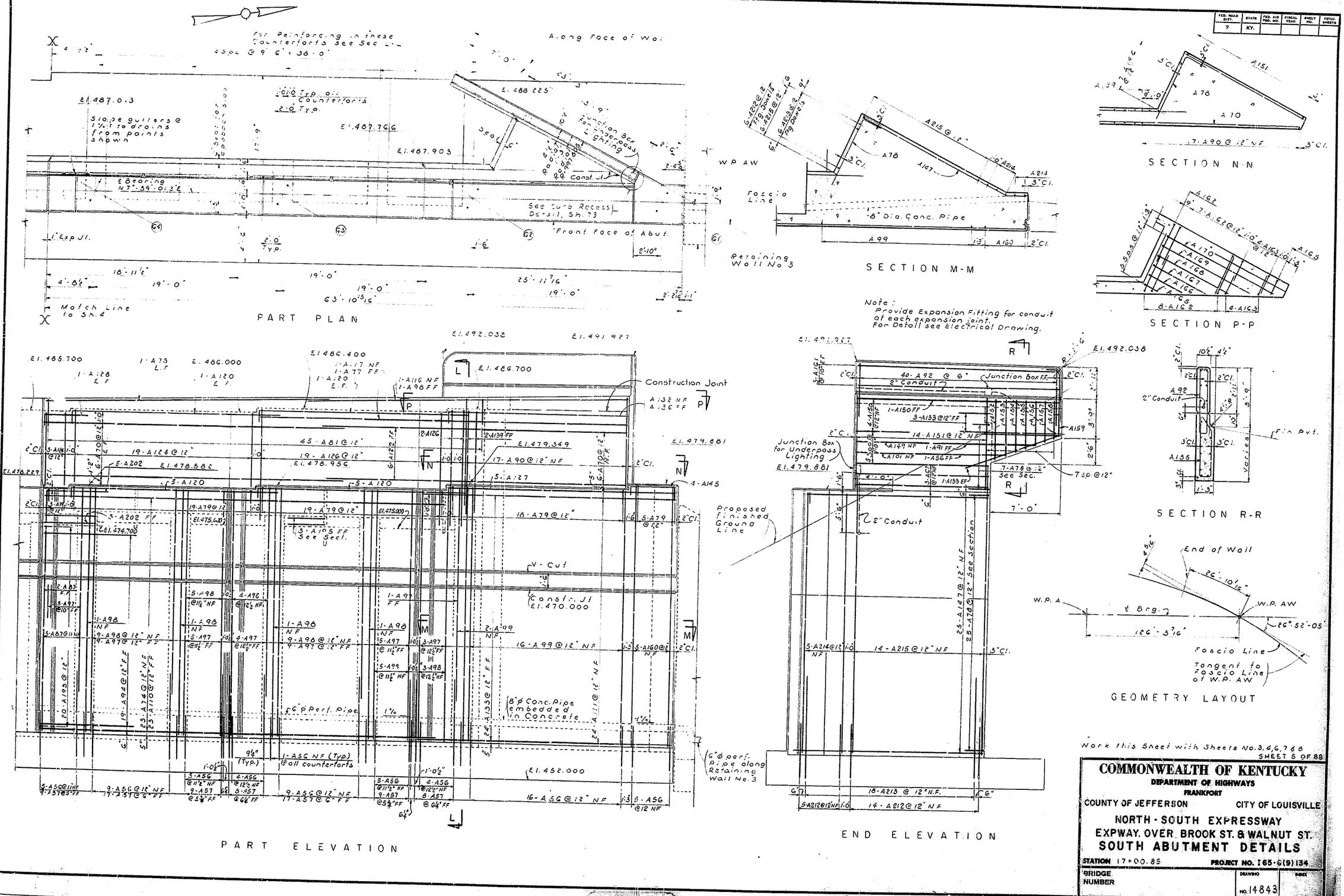
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SOUTH ABUTMENT DETAILS

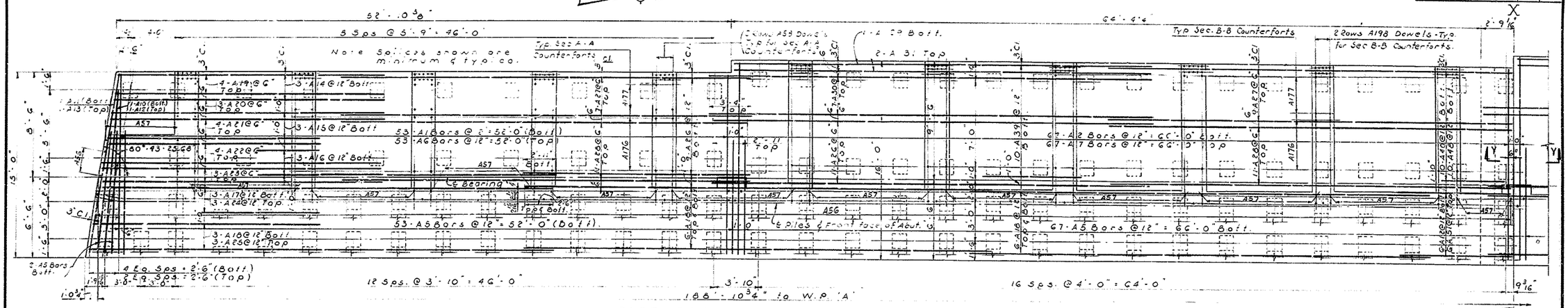
STATION 17+00.85 — PROJECT NO. 165-6(8)134

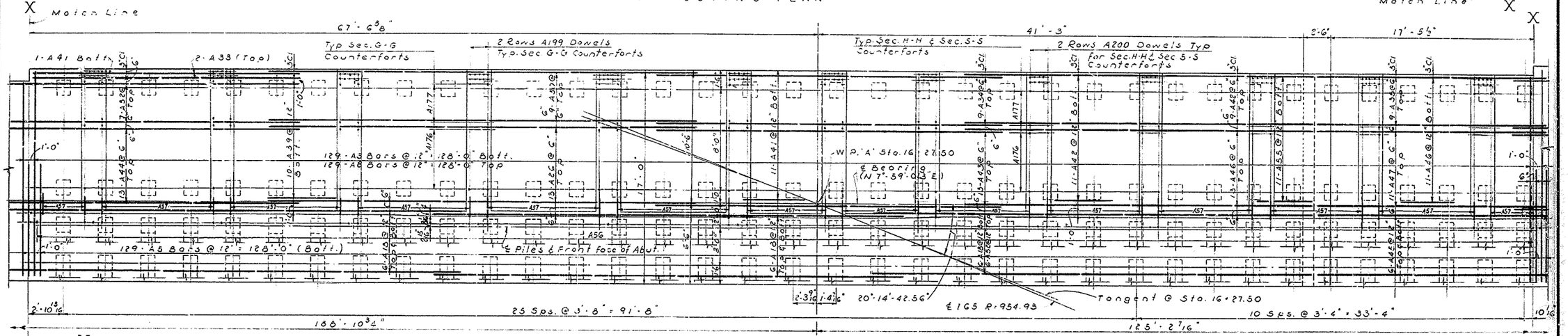
BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

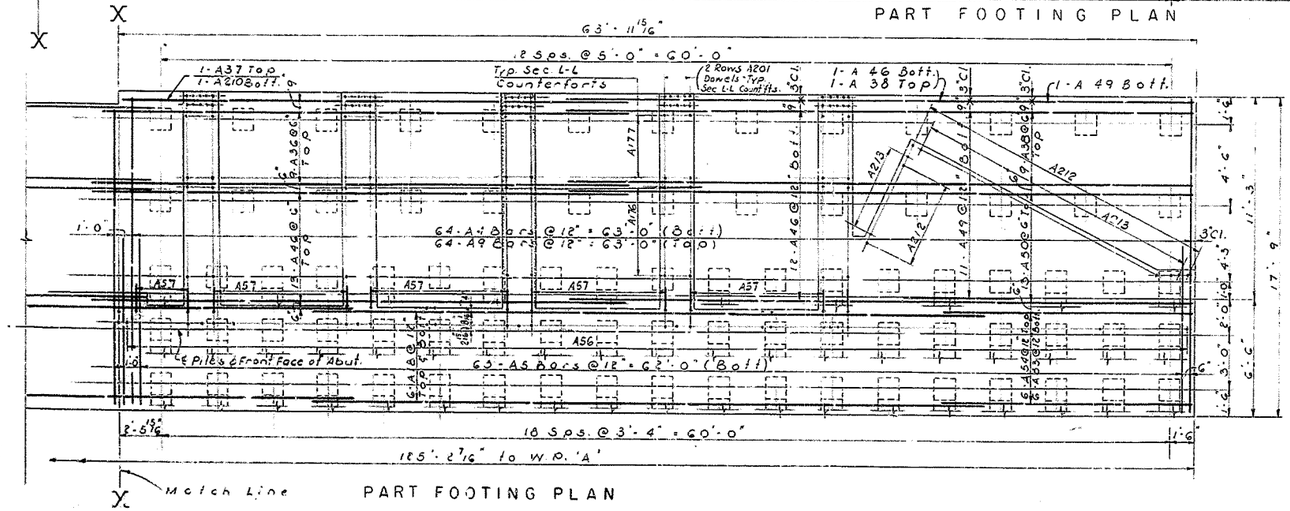
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

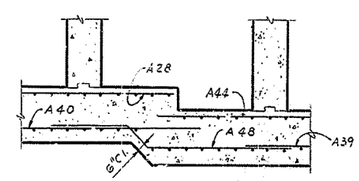


FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				









SECTION Y-Y

ESTIMATE OF QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete Class 'A'	Cu. Yds	1647.5
Steel Reinforcement	Lbs.	191,536

Work this Sheet with Sheets No. 3, 4, 5, 7 & 8

SHEET 6 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

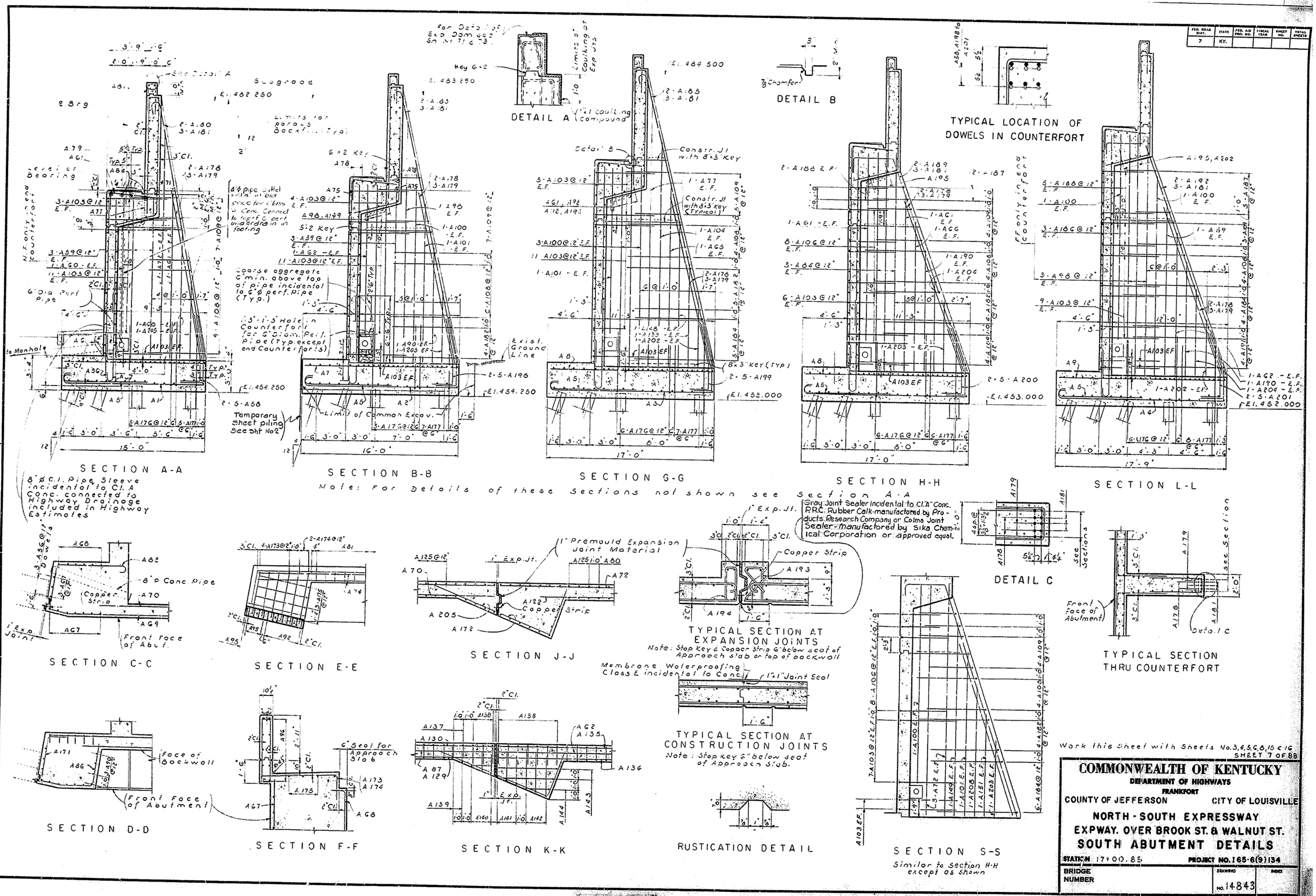
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SOUTH ABUTMENT DETAILS

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14543

DESIGNED BY R.E.M.	CHECKED BY E.P.	DATE	REVISED
DETAILED BY R.E.M.	CHECKED BY JH & OP	DATE	REVISED
TRACED BY W.T.	CHECKED BY JH & OP	DATE	REVISED

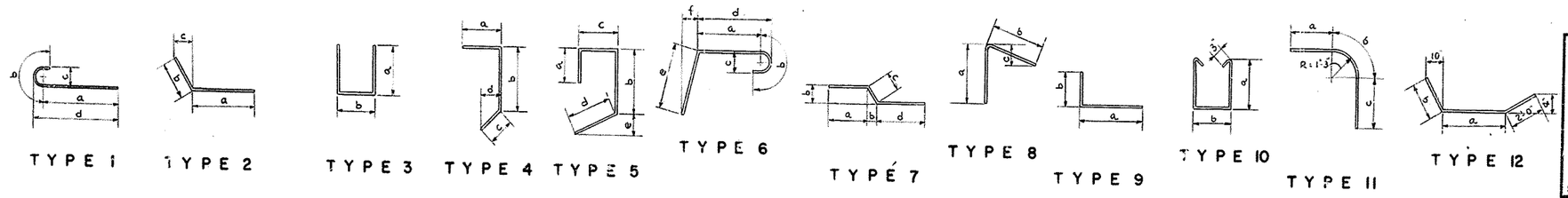

SECTION A-A
SECTION B-B
SECTION G-G
SECTION H-H
SECTION L-L
DETAIL A
DETAIL B
TYPICAL LOCATION OF DOWELS IN COUNTERFORT
Note: For Details of these Sections not shown see Section A-A
SECTION C-C
SECTION E-E
SECTION J-J
TYPICAL SECTION AT EXPANSION JOINTS
Note: Stop Key & Copper Strip 6" below seat of Approach Slab or top of backwall
DETAIL C
TYPICAL SECTION THRU COUNTERFORT
SECTION D-D
SECTION F-F
SECTION K-K
TYPICAL SECTION AT CONSTRUCTION JOINTS
Note: Stop Key 6" below seat of Approach Slab.
RUSTICATION DETAIL
SECTION S-S
Similar to Section H-H except as shown
Gray Joint Sealer Incidental to Cl.'A' Conc. P.R.C. Rubber Calk-manufactured by Products Research Company or Colma Joint Sealer-manufactured by Sika Chemical Corporation or approved equal.
Work this Sheet with Sheets No.3,4,5,6,8,15 & 16
SHEET 7 OF 88
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF JEFFERSON
CITY OF LOUISVILLE
NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SOUTH ABUTMENT DETAILS
STATION 17+00.85
PROJECT NO. I 65-6(9)134
BRIDGE NUMBER
DRAWING No. 14843
FED. ROAD DIV. 7
STATE KY.
DESIGNED BY R.E.M.
DETAILED BY R.E.M.
TRACED BY W.T.
CHECKED BY E.P.
CHECKED BY O.P.
CHECKED BY O.P.
REVISED
REVISED
REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL Y. AR	SHEET NO.	TOTAL SHEETS
7	KY.				

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
A 1	1	53	8	15	7	Footing Bottom	14	1	1	6	0	10	14	6				
A 2	1	67	8	16	7	"	15	1	1	6	0	10	15	6				
A 3	1	128	8	17	7	"	16	1	1	6	0	10	16	6				
A 4	1	64	8	18	4	"	16	10	1	6	0	10	17	3				
A 5	1	314	9	10	9	"	9	1	1	8	0	11¼	9	6⅝				
A 6	Str	53	0	14	6	Footing Top												
A 7	"	67	6	15	6	"												
A 8	"	129	6	16	6	"												
A 8	"	64	6	17	3	"												
A10	1	1	8	14	7	Footing Bottom	13	1	1	6	0	10	13	6				
A11	1	1	8	15	10	"	14	4	1	6	0	10	14	9				
A12	Str	7	6	13	6	Footing Top & Bottom												
A13	"	1	6	14	9	Footing Top												
A14	"	3	7	38	3	Footing Bottom												
A15	"	3	7	38	9	"												
A16	"	3	7	39	3	"												
A17	"	3	6	39	6	"												
A18	"	69	6	40	0	Footing Top & Bottom												
A19	1	4	8	24	4	Footing Top	22	10	1	6	0	10	23	3				
A20	1	3	8	24	7	"	23	1	1	6	0	10	23	6				
A21	1	4	7	24	5	"	23	3	1	2	0	7	23	6½				
A22	1	4	7	24	11	"	23	9	1	2	0	7	24	0½				
A23	1	3	7	25	2	"	24	0	1	2	0	7	24	3½				
A24	1	3	6	39	9	"	38	9	1	0	0	6	39	0				
A25	1	3	6	40	0	"	39	0	1	0	0	6	39	3				
A26	Str	33	7	37	0	Footing Top & Bottom												
A27	"	16	9	34	9	Footing Top												
A28	"	22	7	34	6	"												
A29	"	1	7	19	0	Footing Bottom												
A30	"	16	8	37	6	Footing Top												
A31	1	2	8	36	7	"	35	1	1	6	0	10	35	6				
A32	Str	7	8	25	6	"												
A33	1	2	8	24	4	"	22	10	1	6	0	10	23	3				
A34	Str	9	8	29	6	"												
A35	"	3	8	22	6	"												
A36	"	9	8	32	0	"												
A37	1	1	8	31	4	"	29	10	1	6	0	10	30	3				
A38	1	10	8	38	4	"	36	10	1	6	0	10	37	3				
A39	Str	20	7	36	3	Footing Bottom												
A40	"	10	7	21	0	"												
A41	"	12	7	40	0	"												
A42	"	20	7	32	0	"												
A43	"	13	7	29	6	Footing Top												
A44	"	13	7	25	8	"												
A45	"	12	6	33	0	Footing Top & Bottom												
A46	"	40	7	31	6	"												
A47	"	11	7	22	0	Footing Top												
A48	7	10	7	14	9	Footing Bottom	4	6	1	3	1	8	8	6				
A49	Str	12	7	22	6	"												
A50	1	13	7	37	11	Footing Top	36	9	1	2	0	7	37	0½				
A51	Str	6	6	10	0	Footing Top												
A52	"	6	6	39	6	Footing Top												
A53	"	6	6	14	9	Footing Bottom												
A54	1	6	6	15	6	Footing Top	14	6	1	0	0	6	14	9				
A55	7	11	7	12	11	Footing Bottom	5	3	1	0	1	5	6	3				
A56	Str	342	5	4	2	Footing Stem Dowels & Wf Cont. Stem												
A57	1	511	6	9	6	"	8	6	1	0	0	6	8	9				
A58	4	50	10	8	4	Footing Counterfort Dowels	2	0	2	6	4	0	0	10				
A59	Str	191	5	15	8	Stem-Vert. & Counterfort Vert.												
A60	"	76	5	12	0	Bridge Seat & Stem Vertical												
A61	"	73	5	16	10	Stem, Bridge & C'Fort Vert.Horiz.												
A62	"	67	5	13	3	Wf, Stem,Vert.& Backwall Horiz.												

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
A63	Str	22	5	17	3	Stem Vertical												
A64	9	12	↑	25	11	Bridge Seat	24	6	1	6								
A65	Str	42		17	7	Stem Vert. & Counterfort Vert.												
A66	"	15		13	9	"												
A67	"	26		25	6	Stem Vertical												
A68	9	6		21	10	"	20	11	1	0								
A69	2	16		40	0	Stem Horizontal	38	0	2	0	1	11½						
A70	Str	50		30	3	Backwall Horizontal												
A71	1	16		22	11	Stem Horizontal	22	1	0	10	0	5	22	3½				
A72	Str	31		22	7	Backwall Horiz.& Vert.,Cont.Vertical												
A73	"	16		40	0	Stem Horizontal												
A74	"	46		34	9	"												
A75	"	18		25	0	"												
A76	1	51		35	2	"	34	4	0	10	0	5	34	6½				
A77	Str	30		25	0	Backwall & Stem Horiz.& C'Fort Vert.												
A78	9	39		9	5	Wingwall Stem Horizontal	7	0	2	6								
A79	8	276	↓	6	8	Bridge Seat	2	3	4	6	0	5						
A80	5	31	5	27	2	Backwall-Vertical	10	9	11	0	1	1	4	6	1	1½		
A81	3	200	4	5	6	"	2	6	0	8								
A82	Str	12	5	31	0	Backwall Horizontal												
A83	"	9	↓	35	3	"												
A84	"	49		21	0	Stem & Counterfort Vert.,Horiz.												
A85	6	16		11	5	Stem Horizontal	7	2	0	10	0	5	7	5½	3	6	0	9
A86	12	9		10	1	"	3	8	4	6								
A87	Str	27		22	8	Stem Vert. & Backwall Horiz.												
A88	9	2		20	0	Backwall Horizontal	29	1	1	0								
A89	Str	16		29	3	"												
A90	"	32	↓	10	6	Backwall & Counterfort Vert.												
A91	"	1	5	7	6	Wf Cont. Stem Horizontal												
A92	10	48	4	8	10	Parapet Vertical	4	0	0	6								
A93	Str	2	5	39	11	Backwall Horizontal												
A94	1	127	5	9	2	Stem Horizontal	8	4	0	10	0	5	8	6½				
A95	3	5	4	12	10	Parapet Vertical	6	3	0	6								
A96	Str	10	4	5	9	Parapet Horizontal												
A97	"	46	5	19	6	Stem Vertical												
A98	"	76	↓	23	0	Stem & C'Fort Horiz., Vert.												
A99	"	18		23	10	Stem Vertical												
A100	"	113		18	10	Stem & C'Fort & Vertical												
A101	"	53		15	0	Stem & C'Fort.& Wf Stem.Horiz.												
A102	"	42		19	7	Stem Vertical												
A103	9	782		7	1'	Counterfort Horizontal	6	0	2	0								
A104	Str	50		21	2	Stem & C'Fort Vertical, Horiz.												
A105	"	35		17	4	Stem Vertical												
A106	9	96		6	5	Counterfort Horizontal	4	6	2	0								
A107	1	20		37	2	Stem Horizontal	36	4	0	10	0	5	36	6½				
A108	3	153		13	10	Counterfort Horizontal	6	3	1	6								
A109	3	151		10	4	"	4	6	1	6								
A110	1	23		39	8	Stem Horizontal	38	10	0	10	0	5	39	0½				
A111	Str	24		31	6	"												
A112	"	23		26	6	"												
A113	1	19		33	2	"	32	4	0	10	0	5	32	6½				
A114	9	2		26	5	Backwall Horizontal	25	6	1	0								
A115	9	5		28	5	Bridge Seat	27	6	1	0								
A116	Str	21		32	0	Stem & Backwall Horizontal												
A117	"	19		36	3	"												
A118	1	21		30	2	"	29	4	0	10	0	5	29	6½				
A119	9	5		27	8	Bridge Seat	24	9	3	0								
A120	9	14		21	11	"	21	0	1	0								
A121	9	5		17	2	"	15	9	1	6								
A122	Str	21		18	6	Backwall & Stem Vert. & Horiz.												
A123	5	16	↓	29	2	Backwall Vertical	11	9	12	0	1	1	4	6	1	1½		
A124	5	72	5	24	4	"	9	4	9	7	1	1	4	6	1	1½		

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
A125	5	24	5	30	4	Backwall Vertical	12	4	12	7	1	1	4	6	1	1½		
A126	5	1	↑	25	2	"	9	9	10	0	1	1	4	6	1	1½		
A127	9	5		23	5	Bridge Seat	22	6	1	0								
A128	9	2		4	11	Backwall Horizontal	4	0	1	0								
A129	2	1		25	3	"	21	9	3	6	3	5½						
A130	9	1		27	5	"	25	0	2	6								
A131	Str	14		30	9	"												
A132	9	1		18	8	"	17	9	1	0								
A133	Str	72		9	9	Backwall & Stem.Horiz.&Vert												
A134	2	1		20	0	Backwall Horizontal	16	6	3	6	3	5½						
A135	9	1		15	2	"	12	9	2	6								
A136	9	1		6	11	"	6	0	1	0								
A137	9	2		13	4	Backwall Vertical	12	3	1	2								
A138	4	10		18	11	"	1	10	12	9	4	6	4	4½				
A139	9	4		13	3	"	12	3	1	1								
A140	9	3		14	0	"	12	3	1	10								
A141	9	3		14	11	"	12	3	2	9								
A142	9	3		16	2	"	12	3	4	0								
A143	9	2		17	11	"	12	3	5	9								
A144	9	1		14	2	"	12	3	2	0								
A145	3	4		6	6	Bridge Seat	1	0	4	8								
A146	9	7		7	6	Wingwall Stem Vertical	6	7	1	0								
A147	2	25		18	1	Wingwall Stem Horizontal	16	0	2	1	1	10½						
A148	Str	14		13	3	Count. Vertical												
A149	"	8		18	0	Wingwall Stem Horiz.& Cont.Vert.												
A150	"	5		20	5	"												
A151	Str	18		9	0	Wingwall Stem Vertical												
A152	5	1		11	11	Cent. Wing Wall Stem	5	8	4	10	0	9	0	10	0	7		
A153	5	1		11	3	"	5	4	4	6	0	9	0	10	0	7		
A154	5	1		10	7	"	5	0	4	2	0	9	0	10	0	7		
A155	5	1		9	9	"	4	7	3	9	0	9	0	10	0	7		
A156	5	1	↓	8	11	"	4	2	3	4	0	9	0	10	0	7		
A157	5	1	↑	8	3	"	3	10	3	0	0	9	0	10	0	7		
A158	5	1	5	7	7	"	3	6	2	8	0	9	0	10	0	7		
A159	11	2	4	8	6	"	2	0	2	0	4	6						
A160	Str	5	5	24	4	Stem Vertical												
A161	Str	6	4	20	5	Parapet Stem Horizontal												
A162	9	16	5	6	5	Wingwall Stem Vertical	4	0	2	6								
A163	9	8	↓	4	5	"	2	0	2	6								
A164	5	21		28	2	Backwall Vertical	14	3	11	6	1	1	4	6	1	1½		
A165	9	2		3	11	Wingwall Stem Vertical	1	6	2	6								
A166	9	1		6	2	"	3	9	2	6								
A167	9	1		8	2	"	5	9	2	6								
A168	9	1		10	5	"	8	0	2	6								
A169	9	1		12	5	"	10	0	2	6								
A170	9	1		14	5	"	12	0	2	6								
A171	2	9		5	5	Abutment Corner - Horizontal	3	6	2	0	0	4						
A172	9	10		10	0	Backwall Horizontal	5	4	4	9								
A173	9	4		6	5	Abutment Corner Top	4	0	2	6								
A174	6	2	↓	7	11	"	4	8	0	10	0	5	4	10½	2	6	0	0
A175	9	3	5	7	5	"	5	0	2	6								
A176	3	163	9	13	2	Counterfort Dowels	6	0	1	6								
A177	3	192	7	11	6	"	5	2	1	8								
A178	Str	58	10	10	6	Counterfort Vertical												
A179	"	87	10	17	0	"												
A180	1	10	10	26	3	"	24	10	1	10	1	0½	25	4½				
A181	Str	87	10	22	0	"												
A182	3	83	5	15	4	Counterfort Horizontal	7	0	1	6								
A183	1	12	10	28	1	Counterfort Vertical	26	3	1	10	1	0½	26	9½				
A184	3	83	5	17	4	Counterfort Horizontal	8	0	1	6								
A185	1	14	10	30	7	Counterfort Vertical	28	9	1	10	1	0½	29	3½				
A186	9	30	5	7	5	Counterfort Horizontal	5	6	2	0								



DESIGNED BY R.E.M.	CHECKED BY E.P.	DATE	REVISED
DETAILED BY R.E.M.	CHECKED BY O.P.	DATE	REVISED
TRACED BY S.B.	CHECKED BY O.P.	DATE	REVISED

SHEET 8 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
SOUTH ABUTMENT

STATION 17+00.85 PROJECT NO. I 65-6(9)134

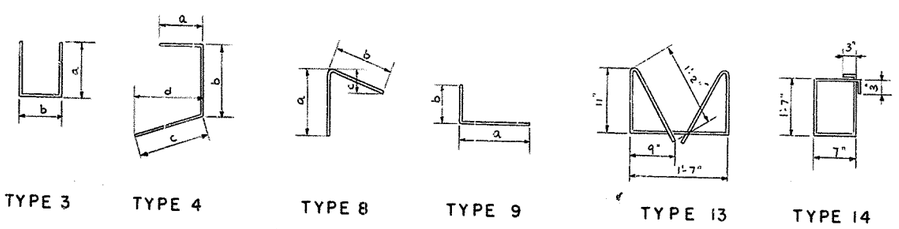
BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

FED. RD. DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
A187	3	25	5	8	4	Counterfort Horizontal	3	6	1	6								
A188	9	74	5	5	11	"	4	0	2	0								
A189	4	12	10	27	7	Counterfort Vertical	1	3	4	0	22	6	21	1				
A190	Str	18	5	11	3	"												
A191	3	20	5	19	4	Counterfort Horizontal	9	0	1	6								
A192	4	10	10	29	1	Counterfort Vertical	1	3	4	0	24	0	22	4½				
A193	13	65	4	5	7	Stem Horizontal												
A194	14	64	4	4	7	"												
A195	Str	25	5	39	8	"												
A196	"	3	5	12	6	"												
A197	"	3	5	6	0	"												
A198	4	60	10	8	4	Footing Counterfort Dowels	2	0	2	6	4	0	0	11½				
A199	4	70	10	8	4	"	2	0	2	6	4	0	1	0				
A200	4	60	10	8	4	"	2	0	2	6	4	0	1	6½				
A201	4	50	10	8	4	"	2	0	2	6	4	0	1	6½				
A202	Str	22	5	5	0	C'Fort Vert., Bridge Seat & Stem Horiz.												
A203	"	24	5	6	0	Counterfort Vertical												
A204	"	18	5	8	6	"												
A205	"	30	5	6	6	C'Fort Vert. & Backwall Horiz.												
A206	8	36	5	7	2	Bridge Seat	2	9	4	6	0	5						
A207	9	5	5	6	11	Bridge Seat Horizontal	5	6	1	6								
A208	Str	9	5	12	0	"												
A209	3	5	5	18	7	"	1	6	15	9								
A210	Str	1	7	15	6	Footing Bottom												
A211	5	99	5	27	8	Backwall Vertical	11	0	11	3	1	1	4	6	1	1½		
A212	1	35	7	6	1	"	4	11	1	2	0	7	5	2½				
A213	1	24	7	10	8	"	9	6	1	2	0	7	9	9½				
A214	Str	5	7	24	8	"												
A215	Str	20	7	27	0	"												

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.



TYPE 3 TYPE 4 TYPE 8 TYPE 9 TYPE 13 TYPE 14

DESIGNED BY R.E.M. CHECKED BY E.P. DATE
DETAILED BY R.E.M. CHECKED BY O.P. DATE
TRACED BY S.B. CHECKED BY O.P. DATE
REVISED DATE
REVISED DATE
REVISED DATE

SHEET 9 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
SOUTH ABUTMENT

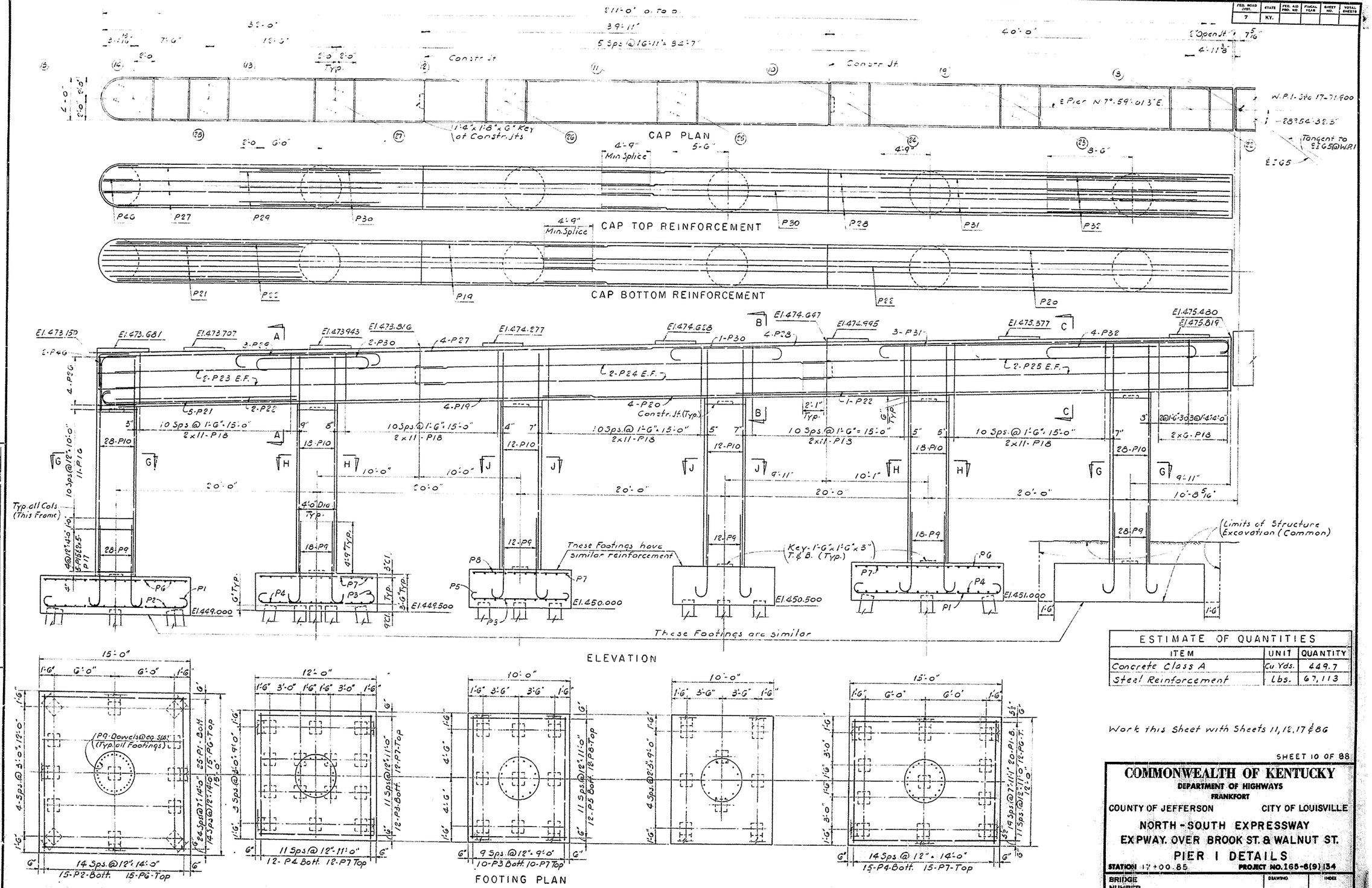
STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER

DRAWING NO. 14843

INDEX

FED. ROAD DIV.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



ESTIMATE OF QUANTITIES

ITEM	UNIT	QUANTITY
Concrete Class A	Cu Yds.	449.7
Steel Reinforcement	Lbs.	67,113

Work this Sheet with Sheets 11, 12, 17 & 86

SHEET 10 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

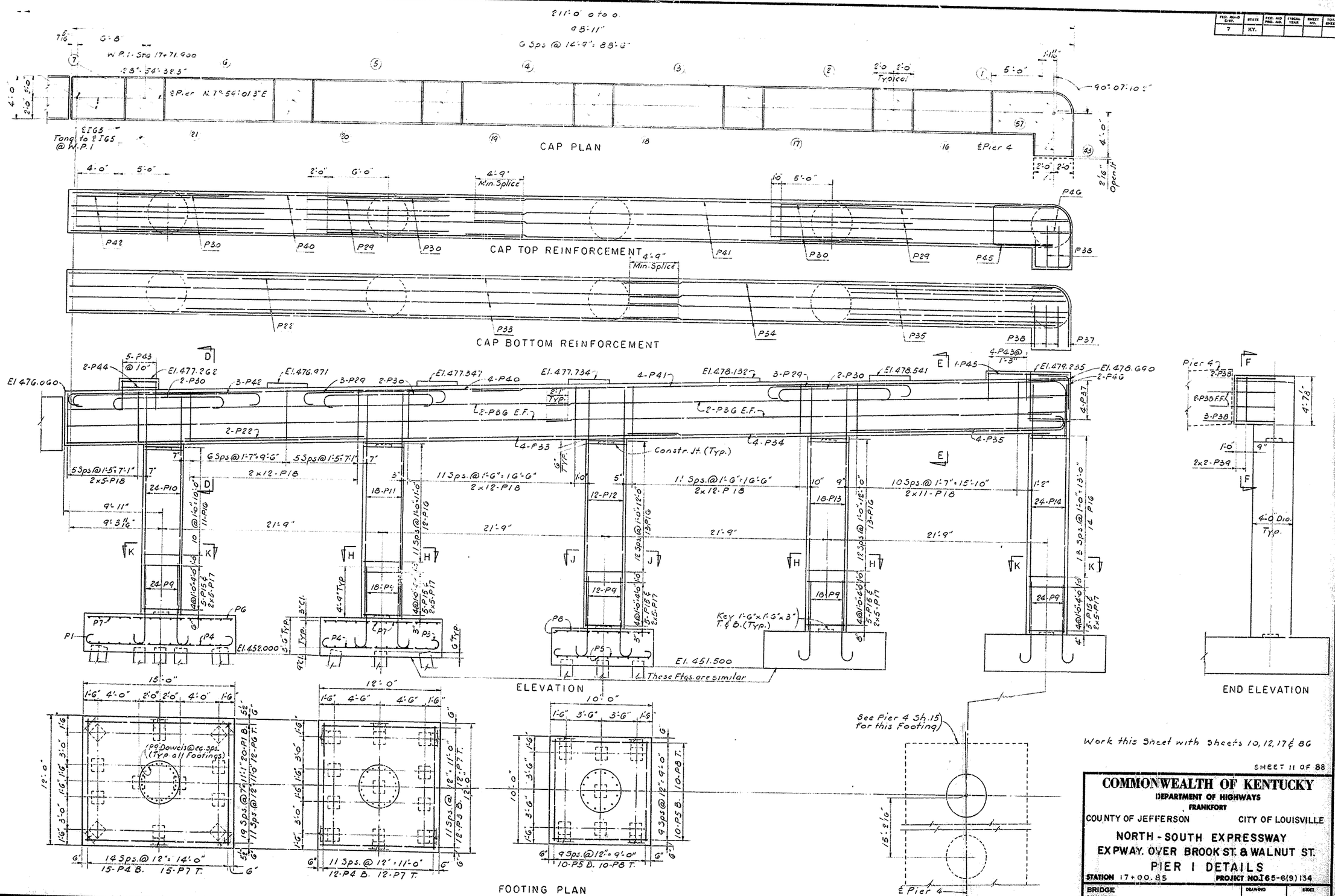
PIER I DETAILS

STATION 17+00.85 — PROJECT NO. 165-6(9) 134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY G.T. — CHECKED BY P.R. — DATE
DETAILED BY V.G.H. — CHECKED BY R.P. — DATE
TRACED BY M.R.D. — CHECKED BY R.P. — DATE
REVISED — REVISED — REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHEETS
7	KY.				



SHEET 11 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

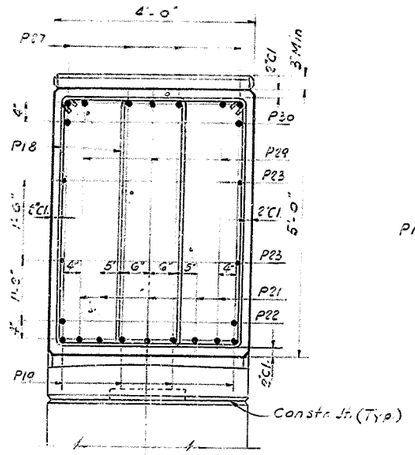
PIER I DETAILS

STATION 17+00.85 — PROJECT NO. I65-6(9) 134

BRIDGE NUMBER — DRAWING NO. 14843 — SHEET

DESIGNED BY G.T.	CHECKED BY D.B.	DATE	REVISED
DETAILED BY J.G.H.	CHECKED BY R.J.	DATE	REVISED
TRACED BY M.D.D.	CHECKED BY R.P.	DATE	REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



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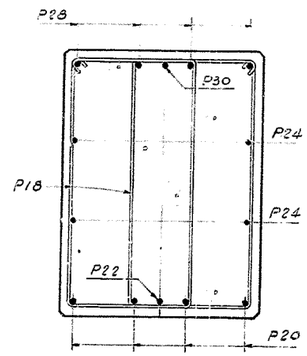

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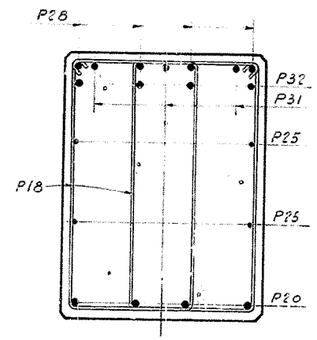

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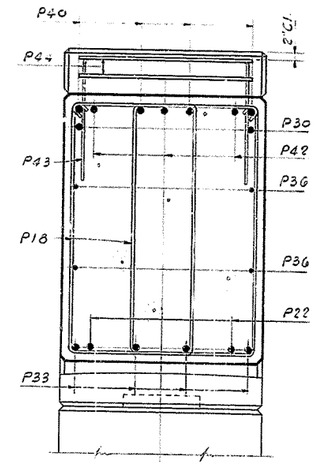

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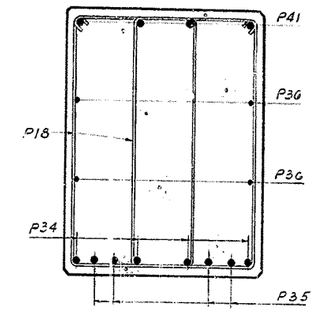

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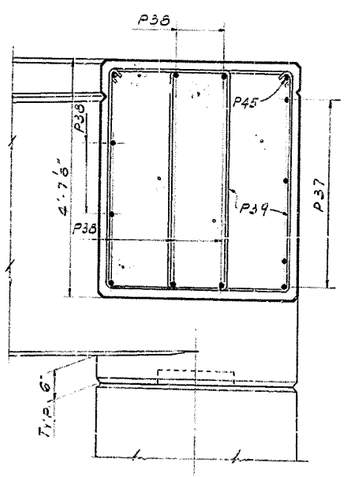

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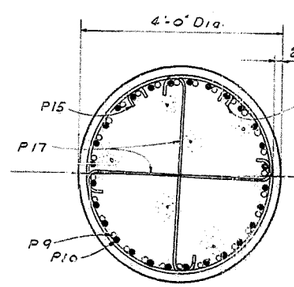
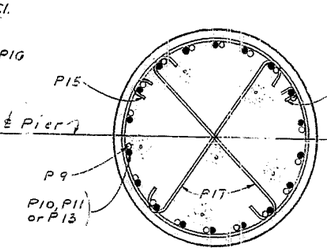
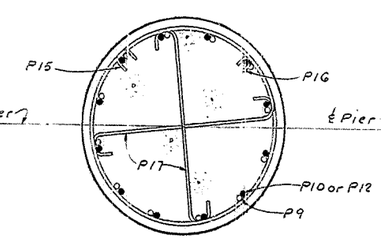


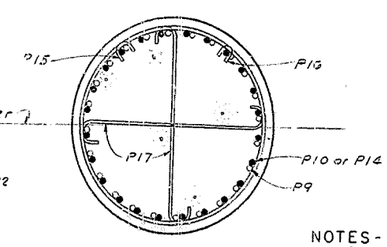
SECTION G-G



SECTION H-H



SECTION J-J



SECTION K-K

Note:
For setting Anchor Bolts see Anchor Bolt Layout Sheet 85.
Bearing Pads shall be poured monolithically with Cap.

NOTES -
Cap Sections are similar to Sect. A-A except as shown.
Column Sections are similar to Sect. G-G except as shown.
Top Cap bars are to be accurately located in accordance with the plans so that they will not interfere with drilling of anchor bolt holes.

Work this sheet with sheets 10, 11 & 17

DESIGNED BY G.T.	CHECKED BY P.R.	DATE	REVISED
DETAILED BY J.G.H.	CHECKED BY R.P.	DATE	REVISED
TRACED BY M.B.D.	CHECKED BY R.P.	DATE	REVISED

SHEET 12 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

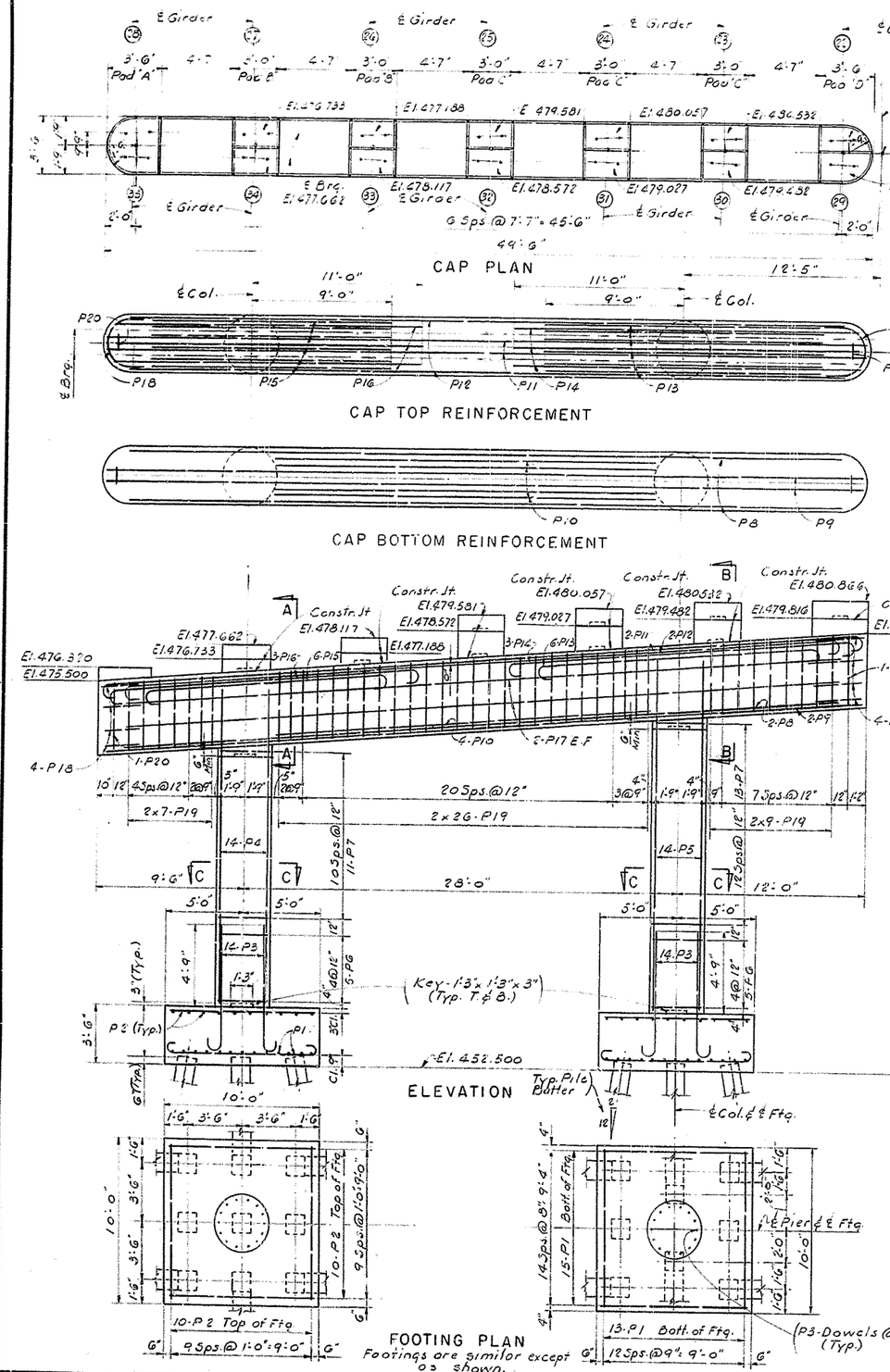
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

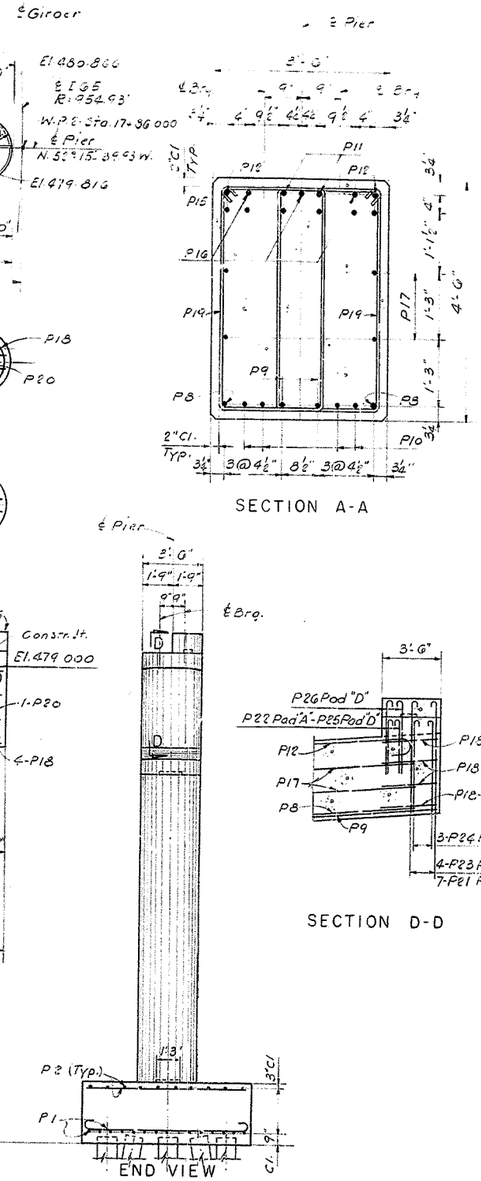
NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
PIER I DETAILS

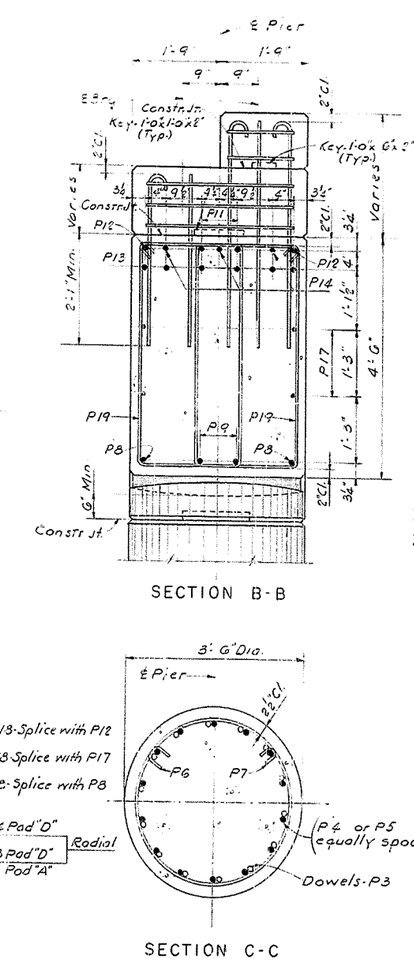
STATION 17+00.85 — PROJECT NO. 165-6(9) 134

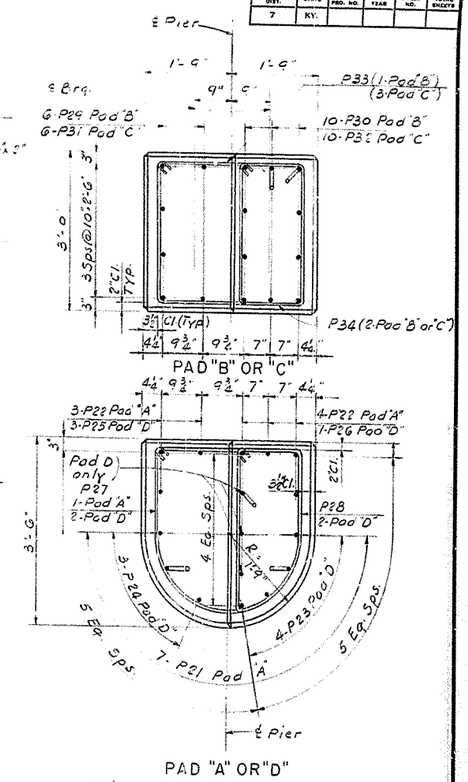
BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				









Note:
For setting Anchor Bolts see Anchor Bolt Layout Sheet 8G. Bearing Pads shall be poured monolithically with Cap, except as shown.

NOTE:
Top of cap bars are to be accurately located in accordance with the plans so that they will not interfere with drilling of anchor bolt holes.
℄ Pier is radial to ℄ IG5.

Work this Sheet with Sheets 17 & 8G

ESTIMATE OF QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete Class A	Cu. Yds.	69.6
Steel Reinforcement	Lbs.	12,774

SHEET 13 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

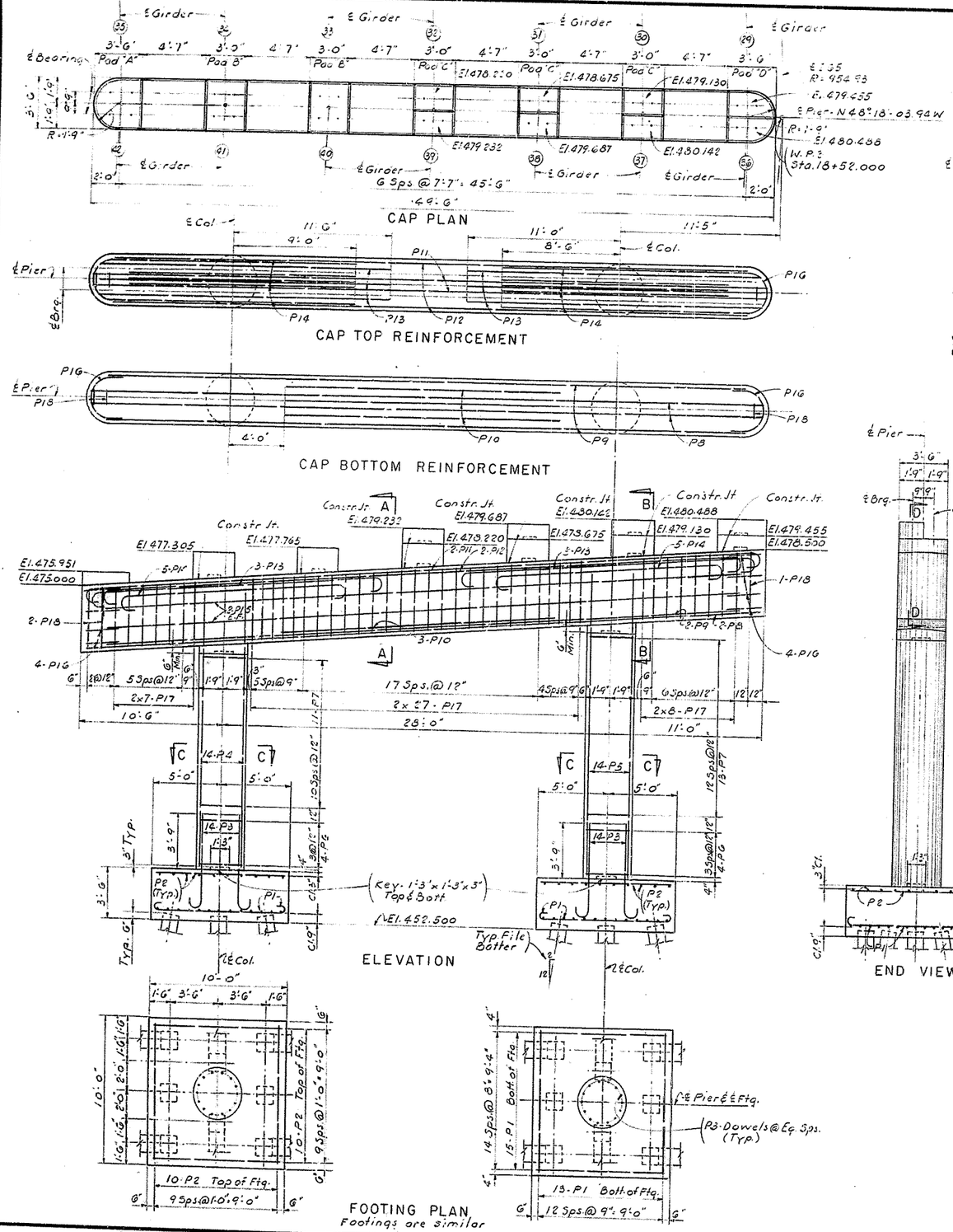
NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
PIER 2 DETAILS

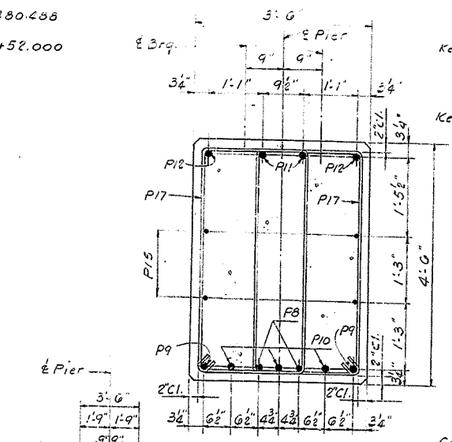
STATION 17+00.85 — PROJECT NO. I 65-6(9)134

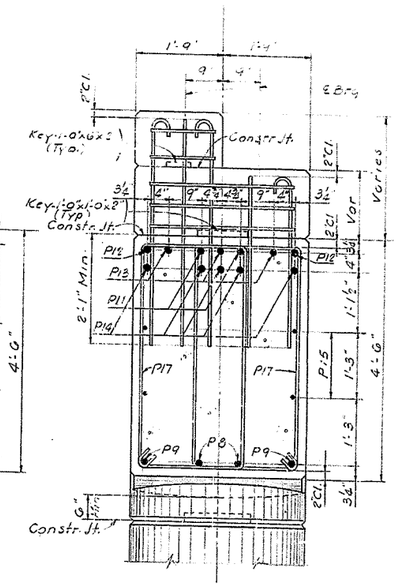
BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

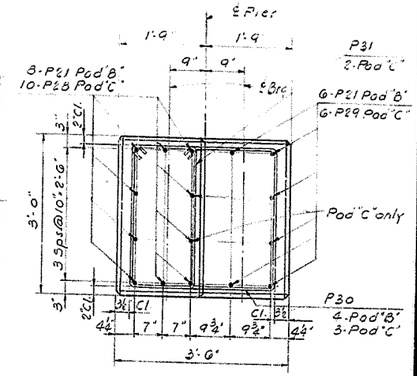
DESIGNED BY R.R.	CHECKED BY J.G.H.	REVISED	DATE
DETAILED BY R.R.	CHECKED BY J.G.H.	REVISED	DATE
TRACED BY M.S.D.	CHECKED BY J.G.H.	REVISED	DATE

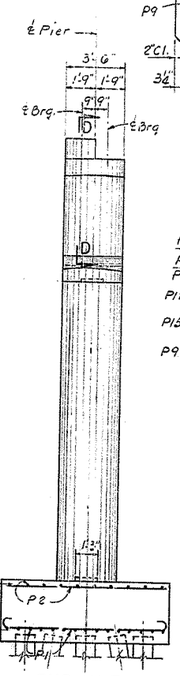
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

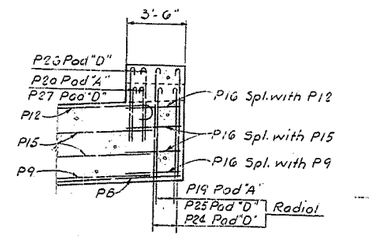


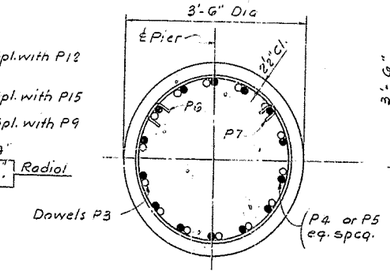


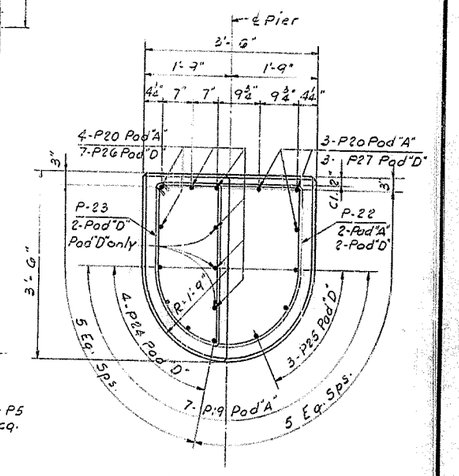












NOTES:

For setting Anchor Bolts, see Anchor Bolt Layout Sheet 86. Bearing Pads shall be poured monolithically with cap, except as shown.

Top of cap bars are to be accurately located in accordance with the plans so that they will not interfere with drilling of anchor bolt holes.

℄ Pier is radial to ℄ I65

Work this Sheet with Sheets 17 & 86.

ESTIMATE OF QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete Class A	Cu Yds	71.5
Steel Reinforcement	Lbs.	10,625

SHEET 14 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

PIER 3 DETAILS

STATION 17+00.85 — PROJECT NO. I 65-6(9) 134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

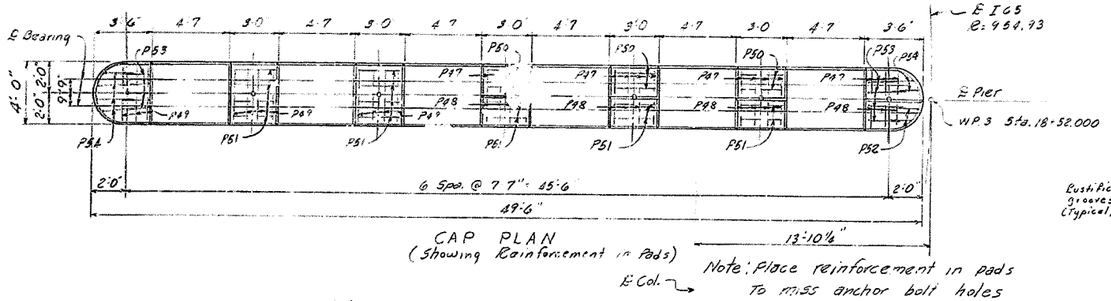
DESIGNED BY R.P. — CHECKED BY J.G.H. — DATE
DETAILED BY R.P. — CHECKED BY J.G.H. — DATE
TRACED BY M.B.D. — CHECKED BY J.G.H. — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

BILL OF ADDITIONAL REINFORCEMENT PIER 3

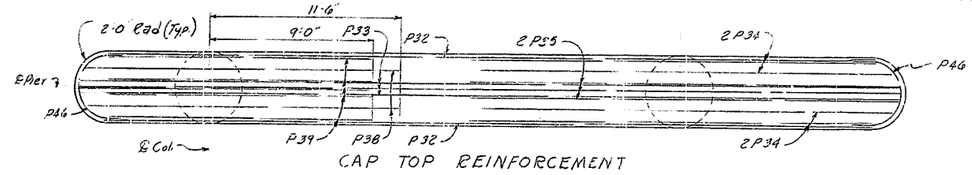
Mark	Type	NO.	Size	Length Ft.	Length In.	Location	a Ft.	a In.	b Ft.	b In.	c Ft.	c In.	d Ft.	d In.
P32	2	2	11	48	7	Top Cap	46	1	2	0	45	8 5/16	1	1 3/16
P33	2	3	11	51	9	" "	47	9	2	0	48	10 5/16	1	1 3/16
P34	2	8	11	26	8	" "	22	8	2	0	23	9 3/16	1	1 3/16
P35	2	6	11	28	7	" "	24	7	2	0	25	8 3/16	1	1 3/16
P36	Str.	2	11	45	6	Bottom Cap								
P37	Str.	2	11	49	0	" "								
P38	2	2	11	21	7	Top Cap	17	7	2	0	18	8 3/16	1	1 3/16
P39	2	5	11	17	11	"	13	11	2	0	15	0 3/16	1	1 3/16
P40	Str.	4	5	45	6	Cap								
P41	Str.	3	11	22	0	Bottom Cap								
P42	3	44	5	13	3	Cap Stirrups	3	4	4	2				
P43	3	46	5	14	9	" "	2	4	4	11				
P44	3	1	5	10	7	" "	1	0	4	2				
P45	3	1	5	12	1	" "	1	0	4	11				
P46	6	9	5	9	4	" End	1	10	5	7 1/16	3	7		
P47	12	15	4	6	2	Pads	2	0	2	2				
P48	12	15	4	7	10	"	1	8	3	2				
P49	12	11	4	9	10	"	3	8	3	2				
P50	12	6	4	6	10	"	2	8	2	2				
P51	12	14	4	8	10	"	2	8	3	2				
P52	9	2	4	7	11	"	6	0	2	0				
P53	9	8	4	4	1	"	2	2	2	0				
P54	9	6	4	4	11	"	5	0	2	0				

See Sh. 17 for Bar Types

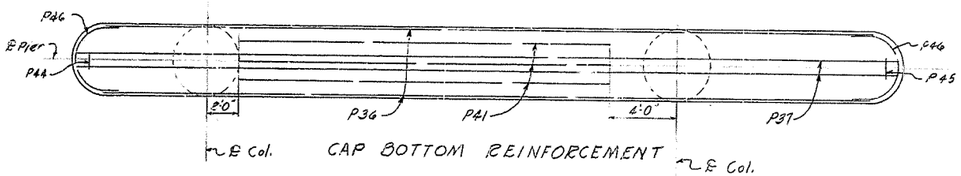


CAP PLAN
(Showing Reinforcement in Pads)

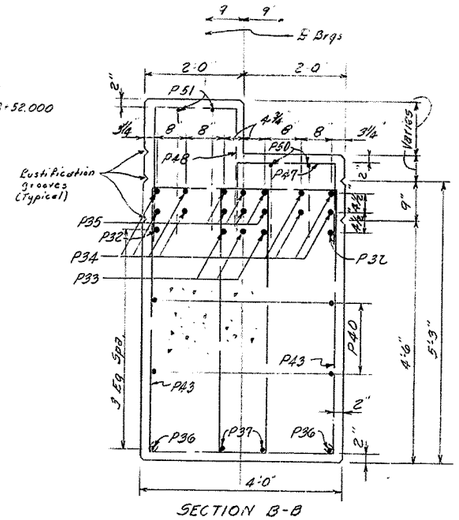
Note: Place reinforcement in pads to miss anchor bolt holes



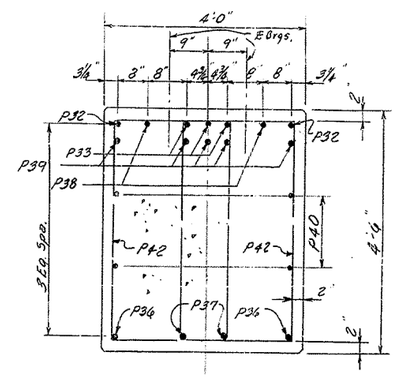
CAP TOP REINFORCEMENT



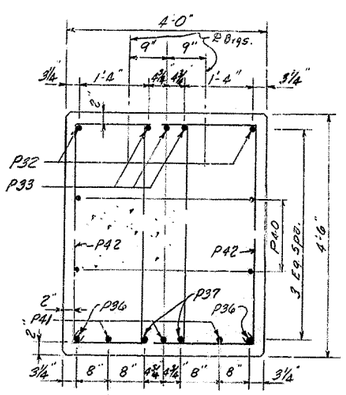
CAP BOTTOM REINFORCEMENT



SECTION B-B

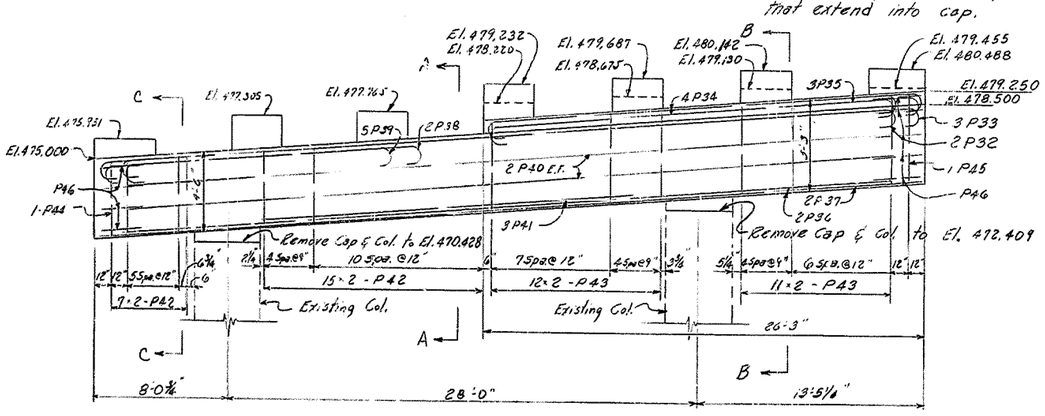


SECTION C-C



SECTION A-A

Note: Clean & straighten existing Col. bars that extend into cap.



ELEVATION CAP

ESTIMATE OF ADDITIONAL QUANTITIES

Class "A" Concrete	39.6 Cu. yds.
Reinforcement	7445 Lbs.
Removing Existing Concrete	38.1 Cu. yds.

PIER 3 REVISION

Sheet 14 A

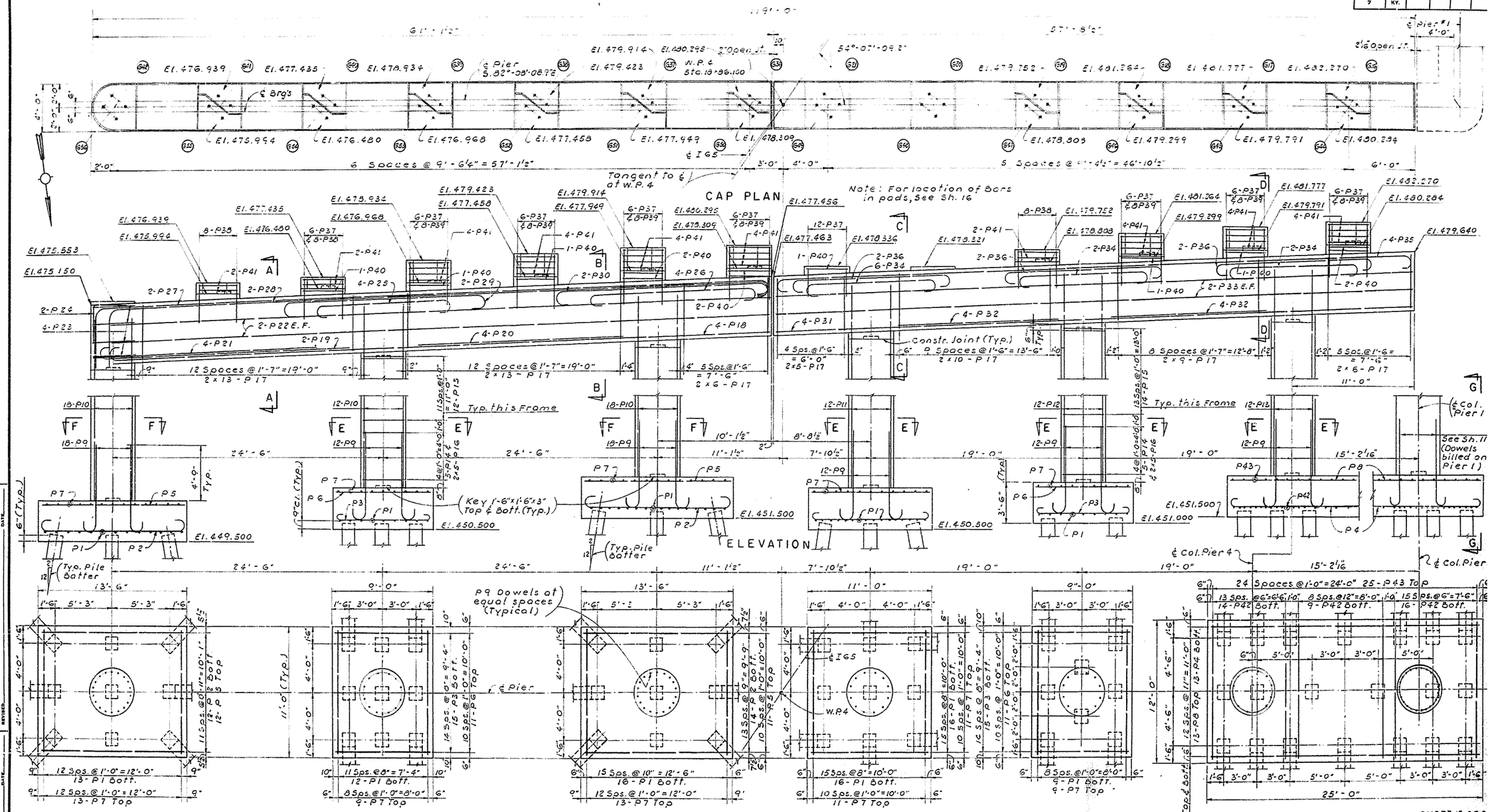
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
NORTH SOUTH EXPRESSWAY
ROAD

STATION 17+00.65 **PROJECT NO.** IGS-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

DESIGNED BY J.F.H.W. CHECKED BY
DETAILED BY E.D.H. CHECKED BY
TRACED BY CHECKED BY
DATE REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



ESTIMATE OF QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete Class A	Cu.Yds.	266.6
Steel Reinforcement	Lbs.	35,354

Work this Sheet with Sheets 16, 17 & 86

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

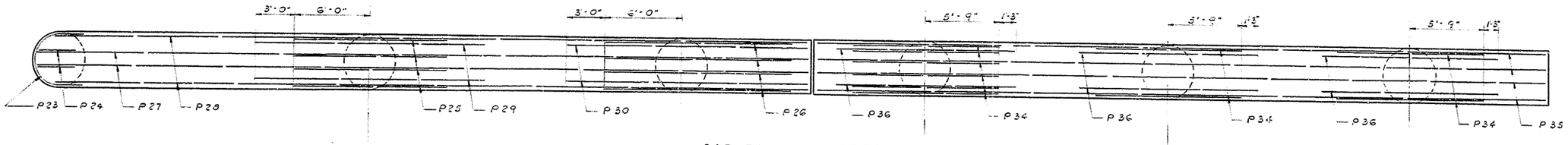
PIER 4 DETAILS

STATION 17+00.85 — PROJECT NO. I 65-6(9) 134

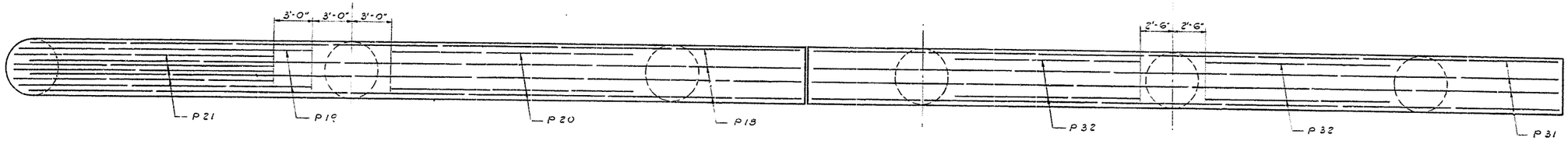
BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY G.T. — CHECKED BY E.K. — DATE
DETAILED BY J.G.H. — CHECKED BY R.P. — DATE
TRACED BY N.P. — CHECKED BY R.P. — DATE
REVISED — REVISED — REVISED

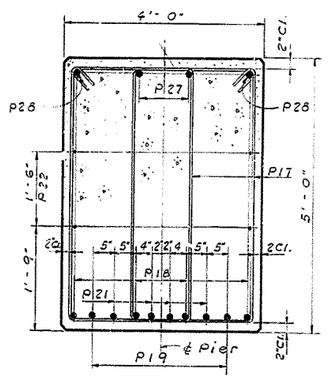
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



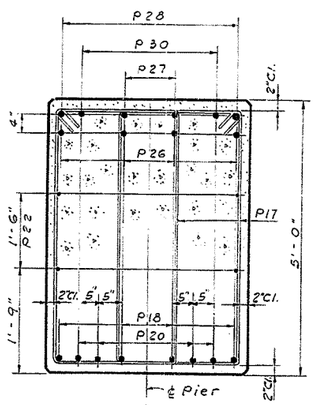
CAP TOP REINFORCEMENT



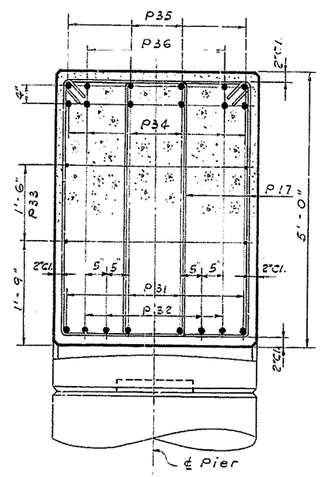
CAP BOTTOM REINFORCEMENT



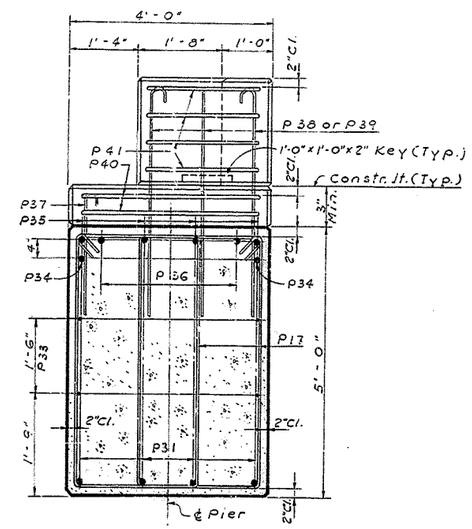
SECTION A-A



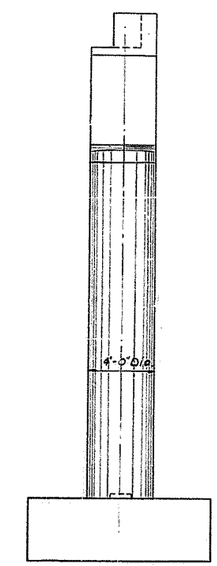
SECTION B-B



SECTION C-C

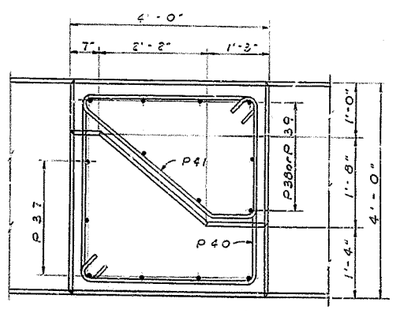


SECTION D-D



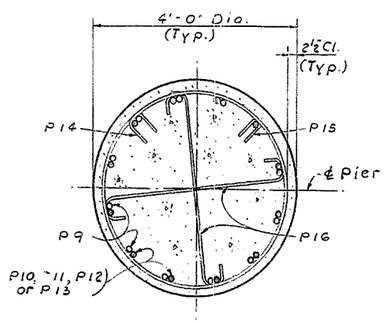
END ELEVATION

NOTE: Top of cap bars are to be accurately located in accordance with the plans, so that they will not interfere with drilling of anchor bolt holes.

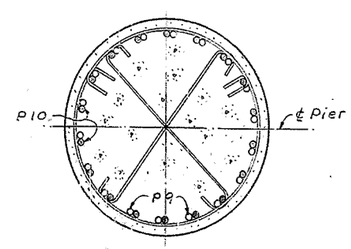


PLAN OF PAD

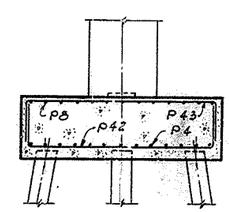
Note: For Setting Anchor Bolts see Anchor Bolts Layout Sheet 86, Bearing Pads shall be poured monolithically with cap, except as shown.



SECTION E-E



SECTION F-F



SECTION G-G

Work this sheet with sheets 15, 17 & 86

SHEET 16 OF 88

DESIGNED BY G.T.	CHECKED BY E.K.	DATE	REVISED
DETAILED BY J.G.H.	CHECKED BY R.P.	DATE	REVISED
TRACED BY N.P.	CHECKED BY R.P.	DATE	REVISED

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST & WALNUT ST.

PIER 4 DETAILS

STATION 17+00.85 — PROJECT NO. I 65-6(9) 134

BRIDGE NUMBER — DRAWING NO. 4843 — INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
7	KY.			

PIER 1

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
P 1	2	90	8	16	8	Footing Bottom	13	8	1	6	14	6	0	10				
P 2	2	30	7	16	3	"	13	11	1	2	14	6	0	7				
P 3	2	56	8	13	8	"	10	8	1	6	11	6	0	10				
P 4	2	66	6	13	0	"	11	0	1	0	11	6	0	6				
P 5	2	44	6	11	0	"	9	0	1	0	9	6	0	6				
P 6	Str	84	6	14	6	Footing Top												
P 7	"	122	6	11	6	"												
P 8	"	44	6	8	6	"												
P 9	1	212	11	9	0	Footing-Column Dowels	7	0	2	0	7	6 7/8	1	1 1/2				
P10	Str	140	11	19	9	Column Vertical												
P11	"	18	11	20	6	"												
P12	"	12	11	22	0	"												
P13	"	18	11	22	6	"												
P14	"	24	11	23	0	"												
P15	7	55	6	12	3	Column Hoops	11	1	0	4	3	7						
P16	7	129	5	12	2	"	11	1 1/4	0	2 3/8	3	7						
P17	8	110	5	4	10	Column Ties	3	2	0	10	3	7	0	5				
P18	3	226	4	14	5	Cap Beam Stirrups	2	5	4	8								
P18	1	4	11	49	10	Cap Beam Bottom	47	10	2	0	48	4 3/8	1	1 1/2				
P20	Str	4	11	67	9	"												
P21	1	5	11	21	2	"	19	2	2	0	19	8 7/8	1	1 1/2				
P22	Str	5	11	18	0	"												
P23	"	4	5	32	6	Cap Beam Sides												
P24	"	4	5	39	6	"												
P25	"	4	5	42	0	"												
P26	6	4	5	9	6	Cap Beam End	2	0	5	6	3	7						
P27	13	4	11	58	8	Cap Beam Top	4	2	1	6	53	0	1	0				
P28	1	4	11	63	6	"	61	6	2	0	62	0 7/8	1	1 1/2				
P29	2	9	11	16	10	"	12	10	2	0	13	11 1/2	1	1 1/2				
P30	2	9	11	13	10	"	9	10	2	0	10	11 1/2	1	1 1/2				
P31	2	3	11	37	3	"	33	3	2	0	34	4 1/2	1	1 1/2				
P32	2	4	11	17	10	"	13	10	2	0	14	11 1/2	1	1 1/2				
P33	Str	4	11	60	0	Cap Beam Bottom												
P34	1	4	11	44	6	"	42	6	2	0	43	0 7/8	1	1 1/2				
P35	1	4	11	22	10	"	20	10	2	0	21	4 3/8	1	1 1/2				
P36	Str	8	5	49	6	Cap Beam Sides												
P37	13	4	5	8	8	Cap Beam End	2	0	2	10	3	10	1	10				
P38	Str	7	5	4	0	"												
P39	3	4	4	13	5	Cap Beam End Stirrup	2	5	4	2								
P40	1	4	11	46	0	Cap Beam Top	44	0	2	0	44	6 7/8	1	1 1/2				
P41	13	4	11	63	0	"	4	2	1	6	57	4	1	0				
P42	2	3	11	22	4	"	18	4	2	0	19	5 1/2	1	1 1/2				
P43	12	9	5	9	2	Cap Beam-Pad	3	4	3	0								
P44	3	2	4	13	11	Pad	3	5	3	5								
P45	14	1	4	27	6	"												
P46	8	4	6	6	0	Cap Beam Ends	3	0 3/8	3	0 3/8								

PIER 2

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
P 1	2	56	7	11	3	Footing Bottom	8	11	1	2	9	6	0	7				
P 2	Str	40	6	9	6	Footing Top												
P 3	1	28	11	9	0	Footing Column Dowels	7	0	2	0	7	6 3/8	1	1 1/2				
P 4	Str	14	11	19	3	Column Vertical												
P 5	"	14	11	21	0	"												
P 6	7	10	5	10	8	Column Hoops	9	6 1/4	0	4	3	1						
P 7	7	24	5	10	7	"	9	6 1/4	0	2 1/2	3	1						
P 8	Str	2	11	46	0	Cap Beam Bottom												
P 9	"	2	11	49	0	"												
P10	"	4	11	24	6	"												
P11	2	2	11	51	9	Cap Beam Top	47	9	2	0	48	10 1/2	1	1 1/2				
P12	2	2	11	49	0	"	45	0	2	0	46	1 1/2	1	1 1/2				
P13	2	6	11	21	0	"	17	0	2	0	18	1 1/2	1	1 1/2				
P14	2	3	11	25	0	"	21	0	2	0	22	1 1/2	1	1 1/2				
P15	2	6	11	18	6	"	16	6	2	0	15	7 1/2	1	1 1/2				
P16	2	3	11	22	6	"	18	6	2	0	19	7 1/2	1	1 1/2				
P17	Str	4	4	46	0	Cap Beam Sides												
P18	6	8	4	3	2	Cap Beam Ends	1	8 1/2	4	9	3	1						
P19	3	84	4	12	8	Cap Beam Stirrups	2	0 1/2	4	2								
P20	3	2	4	10	5	"	0	10 7/8	4	2								
P21	1	7	5	5	5	Pads	4	7	0	10	4	9 1/2	0	5				
P22	1	7	5	3	2	"	2	4	0	10	2	6 1/2	0	5				
P23	1	4	5	6	7	"	5	9	0	10	5	11 1/2	0	5				
P24	1	3	5	5	7	"	4	9	0	10	4	11 1/2	0	5				
P25	1	3	5	3	7	"	2	9	0	10	2	11 1/2	0	5				
P26	1	7	5	4	7	"	3	9	0	10	3	11 1/2	0	5				
P27	4	3	4	11	0	"	2	11	1	7	4	6	3	0 1/2				
P28	5	2	4	8	0	"	1	3 5/8	3	0	2	1 3/8	1	7				
P29	1	12	5	3	5	"	2	7	0	10	2	9 1/2	0	5				
P30	1	20	5	4	5	"	3	7	0	10	3	9 1/2	0	5				
P31	1	18	5	4	2	"	3	4	0	10	3	6 1/2	0	5				
P32	1	30	5	5	2	"	4	4	0	10	4	6 1/2	0	5				
P33	3	11	4	11	5	"	2	11	2	8								
P34	3	10	4	8	2	"	1	3 5/8	2	8								

PIER 3

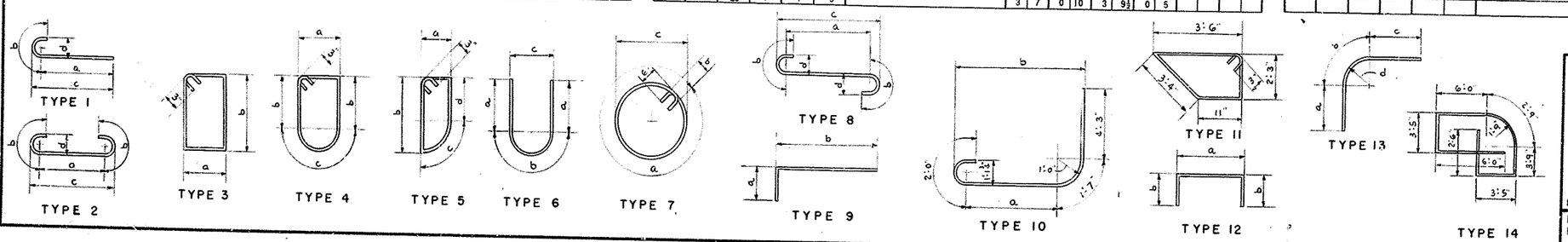
MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
P 1	2	56	7	11	3	Footing Bottom	8	11	1	2	9	6	0	7				
P 2	Str	40	6	9	6	Footing Top												
P 3	1	28	9	7	7	Footing Column Dowels	5	11	1	8	6	4 1/2	0	11 1/2				
P 4	Str	14	9	18	6	Column Vertical												
P 5	"	14	9	20	6	"												
P 6	7	8	5	10	8	Column Hoops	9	6 1/4	0	3 3/8	3	1						
P 7	7	24	5	10	7	"	9	6 1/4	0	2 1/2	3	1						
P 8	Str	2	11	49	0	Cap Beam Bottom												
P 9	"	2	11	46	0	"												
P10	"	3	11	20	0	"												
P11	2	2	11	51	9	Cap Beam Top	47	9	2	0	48	10 1/2	1	1 1/2				
P12	2	2	11	49	0	"	45	0	2	0	46	1 1/2	1	1 1/2				
P13	2	6	11	24	0	"	20	0	2	0	21	1 1/2	1	1 1/2				
P14	2	10	11	19	6	"	15	6	2	0	16	7 1/2	1	1 1/2				
P15	Str	4	4	46	0	Cap Beam Sides												
P16	6	8	4	8	2	Cap Beam End	1	8 1/2	4	9	3	1						
P17	3	84	4	12	9	Cap Beam Stirrups	2	0 1/2	4	2								
P18	3	3	4	10	7	"	0	11 7/8	4	2								
P19	1	7	5	5	7	Pads	4	9	0	10	4	11 1/2	0	5				
P20	1	7	5	3	5	"	2	7	0	10	2	9 1/2	0	5				
P21	1	28	5	4	5	"	3	7	0	10	3	9 1/2	0	5				

PIER 3 (CONT.)

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
P22	4	4	4	11	0	Pads	2	11	1	7	4	6	3	0 1/2				
P23	5	2	4	8	0	"	1	3 5/8	3	0	2	1 3/8	1	7				
P24	1	4	5	6	7	"	5	9	0	10	5	11 1/2	0	5				
P25	1	3	5	5	7	"	4	9	0	10	4	11 1/2	0	5				
P26	1	7	5	4	7	"	3	9	0	10	3	11 1/2	0	5				
P27	1	3	5	3	7	"	2	9	0	10	2	11 1/2	0	5				
P28	1	30	5	5	3	"	4	5	0	10	4	7 1/2	0	5				
P29	1	18	5	4	3	"	3	5	0	10	3	7 1/2	0	5				
P30	3	17	4	11	5	"	2	11	2	8								
P31	3	5	4	6	2	"	1	3 5/8	2	8								

PIER 4

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
P 1	2	82	7	12	3	Footing Bottom	9	11	1	2	10	5	0	7				
P 2	2	26	9	15	4	"	12	0	1	8	12	11 1/2	0	11 1/2				
P 3	2	30	6	10	0	"	8	0	1	0	8	6	0	6				
P 4	2	13	8	26	8	"	23	8	1	6	24	6	0	10				
P 5	Str	23	6	13	0	Footing-Top												
P 6	"	22	6	8	6	"												
P 7	"	66	6	10	6	"												
P 8	"	13	9	24	6	"												
P 9	1	84	11	9	0	Footing Col. Dowels	7	0	2	0	7	6 7/8	1	1 1/2				
P10	Str	48	11	21	0	Column Vertical												
P11	"	12	11	22	9	"												
P12	"	12	11	23	0	"												
P13	"	12	11	23	3	"												
P14	7	30	5	12	3	Column Hoops	11	1 1/4	0	4	3	7						
P16	7	78	5	12	2	"	11	1 1/4	0	2 3/8	3	7						
P16	8	60	5	4	10	Column Ties	3	2	0	10	3	7	0	5				
P17	3	124	4	14	5	Cap Beam Stirrups	2	5	4	8								
P18	1	4	10	60	6	Cap Beam Bottom	58	8	1	10	59	2 1/4	1	0 1/2				
P19	1	2	10	23	10	"	22	0	1	10	22	6 1/4	1	0 1/2				
P20	Str	4	10	18	6	"												
P21	"	4	10	20	0	"												
P22	"	4	5	59	0	Cap Beam Sides												
P23	6	4	5	9	6	Cap Beam End	2	0	5	7	3	7						
P24	9	2	6	6	0	Cap Beam End	3	0 3/8	3	0 3/8								
P25	2	4	10	14	8	Cap Beam Top	11	0	1	10	12	0 1/2	1	0 1/2				
P26	2	4	10	17	2	"	13	6	1	10	14	6 1/2	1	0 1/2				
P27	10	2	11	66	10	"	59	0	60	7 1/2								
P28	10	2	11	65	4	"	57	6	59	3 1/2								
P29	2	2	11	20	10	"	16	10	2	0	17	11 1/2	1	1 1/2				
P30	2	2	11	21	9	"	17	9	2	0	18	10 1/2	1	1 1/2				
P31	Str	4	10	67	2	Cap Beam Bottom												
P32	"	8	10	14	0	"												
P33	"	4	5	57	2	Cap Beam Sides												
P34	2	10	9	13	11	Cap Beam Top	10	7	1	8	11	6 1/4	0	11 1/2				
P35	2	4	10	59	9	"	56	1	1	10	57	1 1/2	1	0 1/2				
P36	2	6	9	16	5	"	13	1	1	8	14	0 1/2	0	11 1/2				
P37	1	60	5	3	6	Pads	2	8	0	10	2	10 1/2	0	5				
P38	1	24	5	4	6	"	3	8	0	10	3	10 1/2	0	5				
P39	1	56	5	5	6	"	4	8	0	10	4	10 1/2	0	5				
P40	3	12	4	14	3	"	3	6	3	6								
P41	11	34	4	10	3	"												
P42	12	39	7	16	4	Footing-Bottom	11	6	2	6								
P43	12	25	6	16	4	" -Top	11	6	2	6								



DESIGNED BY G T CHECKED BY P.R. & E.W. DATE
DETAILED BY R.P. & J.G.H. CHECKED BY J.G.H. & R.P. DATE
TRACED BY S.B. CHECKED BY J.G.H. & R.P. DATE
REVISED DATE
REVISED DATE
REVISED DATE

SHEET 17 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

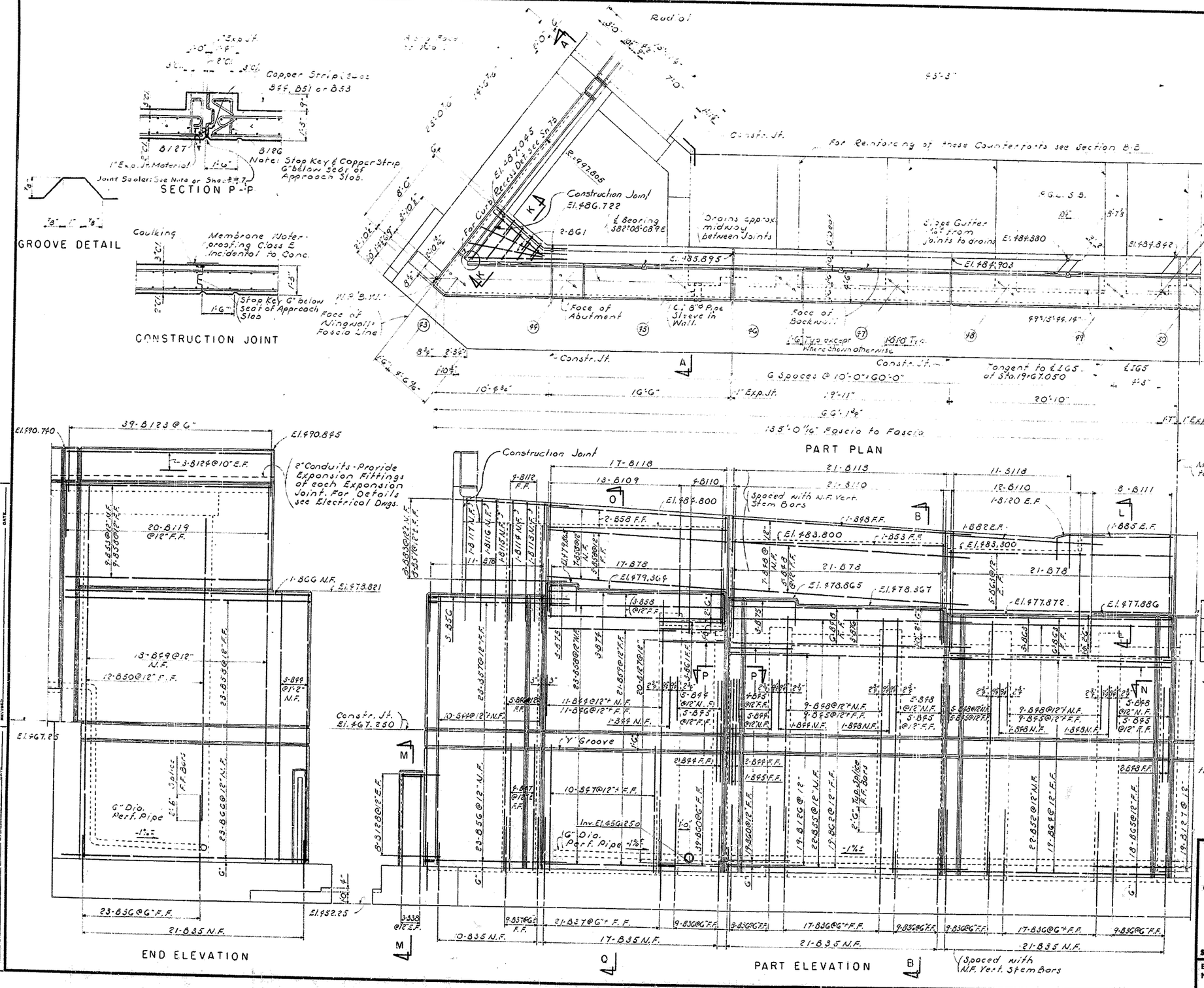
COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
PIERS

STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



SECTION K-K

SECTION L-L

ESTIMATE OF QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete Class A	Cu. Yds.	796.2
Steel Reinforcement	Lbs.	94,914

NOTES:

All Bevels shown are 7/8" x 7/8".

All Keys are 1/3 the width of the sections unless otherwise shown.

For Anchor Bolt Layout see Sh. 86

For Abutment Drain Details see sheet 4

Work this Sheet with Sheets 19 to 22

SHEET 18 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

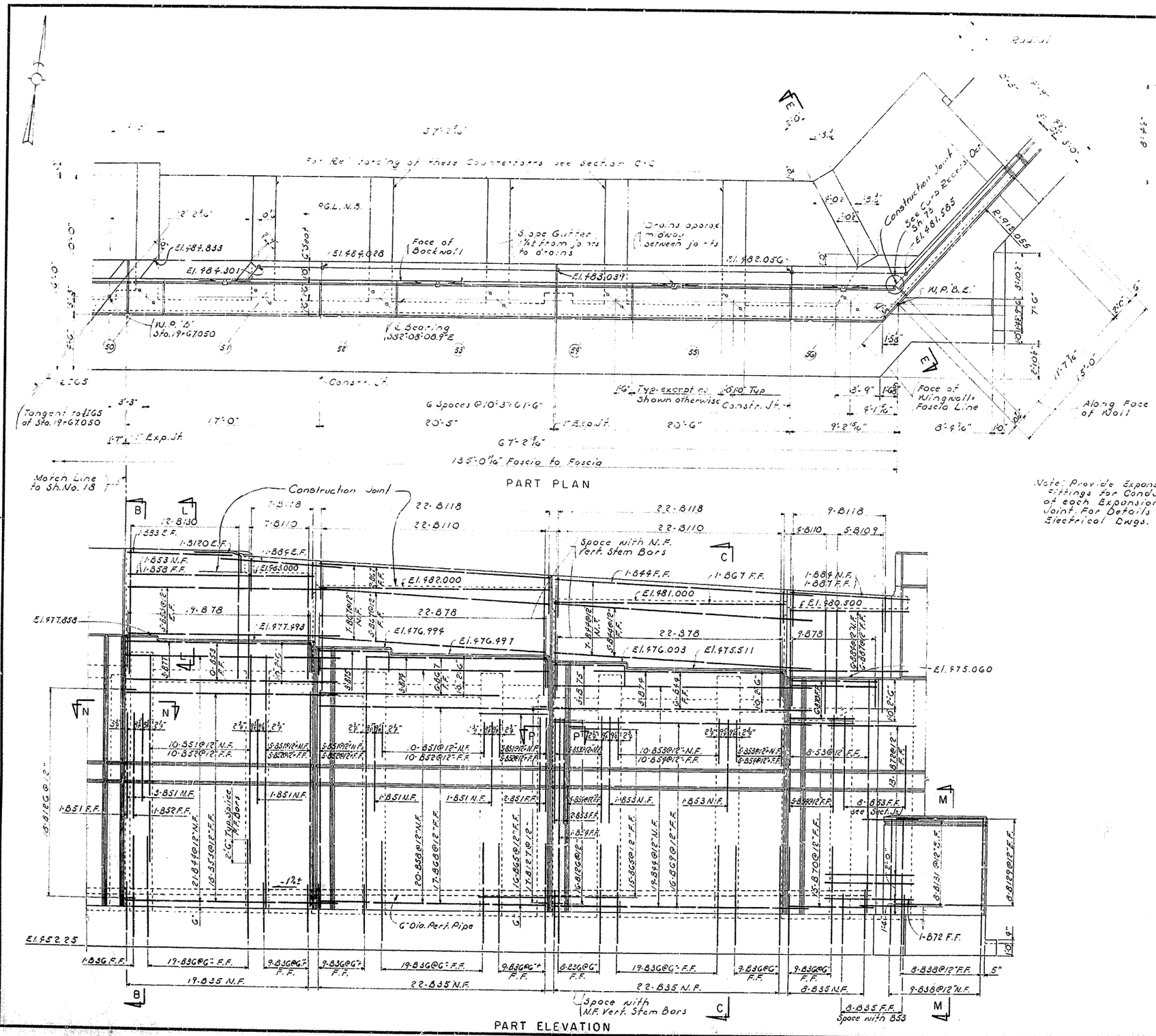
NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
NORTH ABUTMENT DETAILS

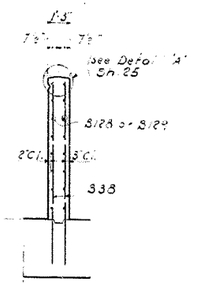
STATION 17+00.85 — PROJECT NO. I 65-3(9)134

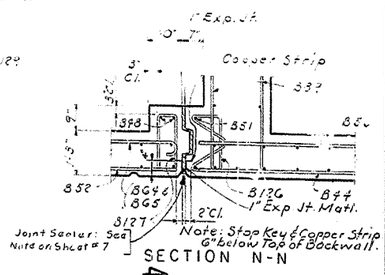
BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

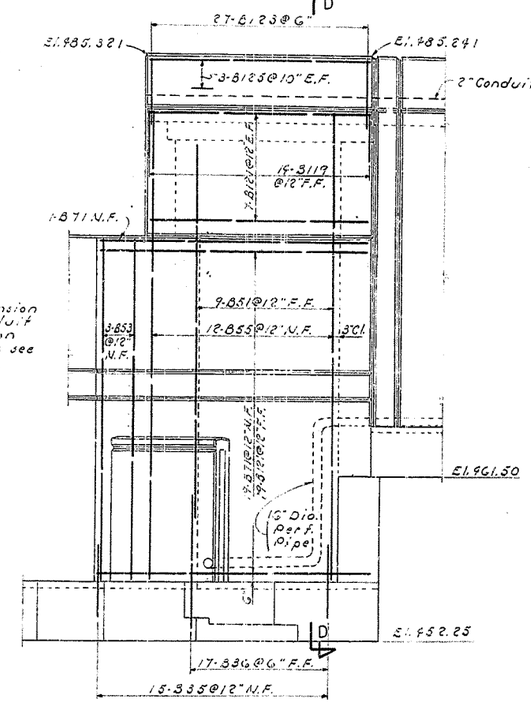
DESIGNED BY R.E.M. — CHECKED BY E.P. — DATE
DETAILED BY J.G.H. — CHECKED BY R.E.M. — DATE
TRACED BY M.N.J. — CHECKED BY R.E.M. — DATE
REVISED — REVISED — REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				









Note: Provide Expansion Fittings for Conduit at each Expansion Joint. For Details see Electrical Dwgs.

NOTE:
For Abutment Drain Details see Sheet 4
Work this sheet with Sheets 18 and 20 thru 22

SHEET 19 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

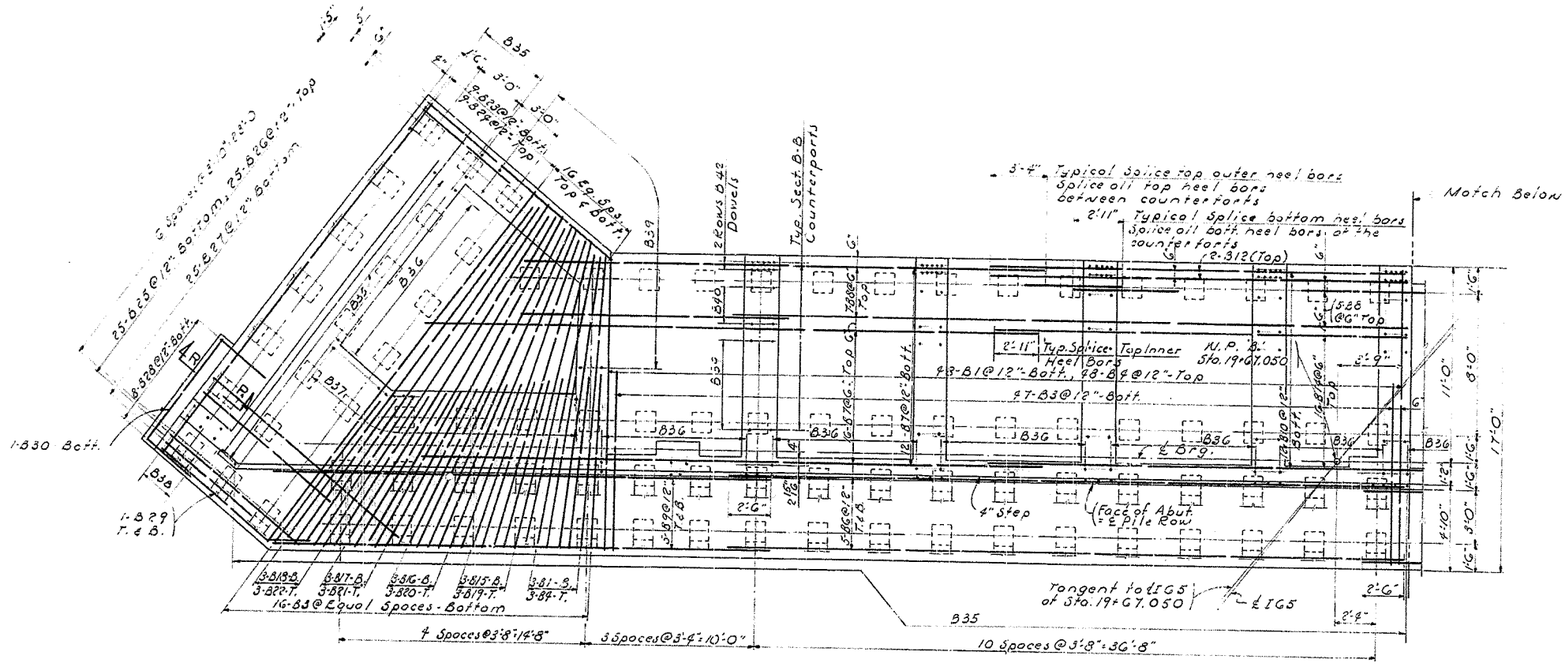
NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
NORTH ABUTMENT DETAILS

STATION 17+00.85 — PROJECT NO. 165-6(9)134

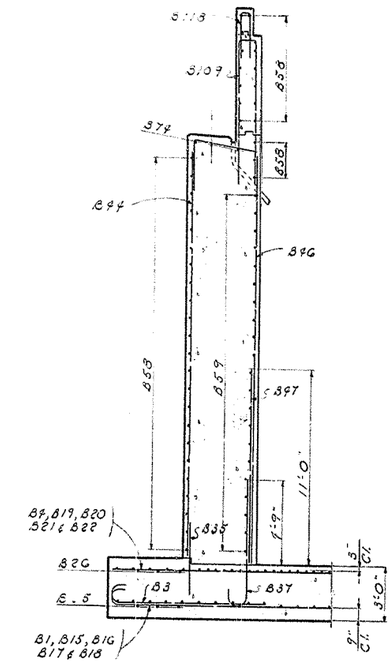
BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY J. G. H. — CHECKED BY — DATE
DETAILED BY M. N. — CHECKED BY — DATE
TRACED BY — CHECKED BY R.E.M. — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

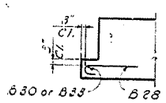
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



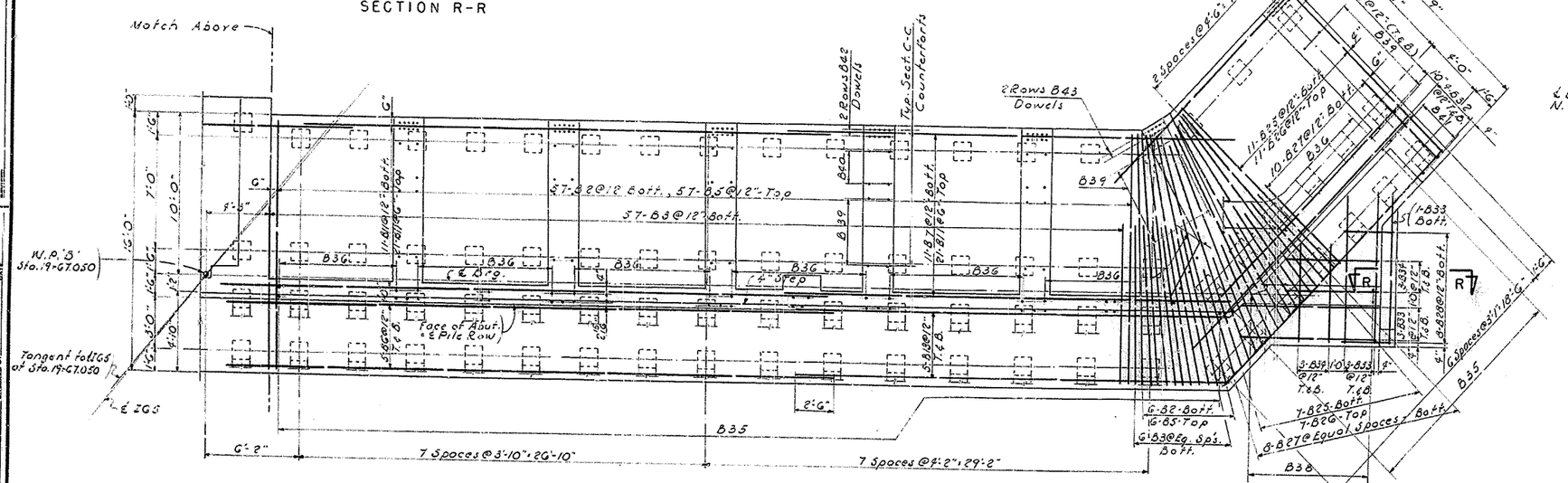
PART FOOTING PLAN



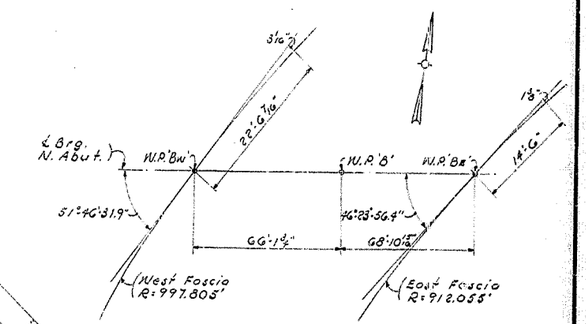
SECTION Q-Q



SECTION R-R



PART FOOTING PLAN



GEOMETRY LAYOUT

Work this sheet with Sheets 18, 19, 21 & 22

SHEET 20 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
NORTH ABUTMENT DETAILS

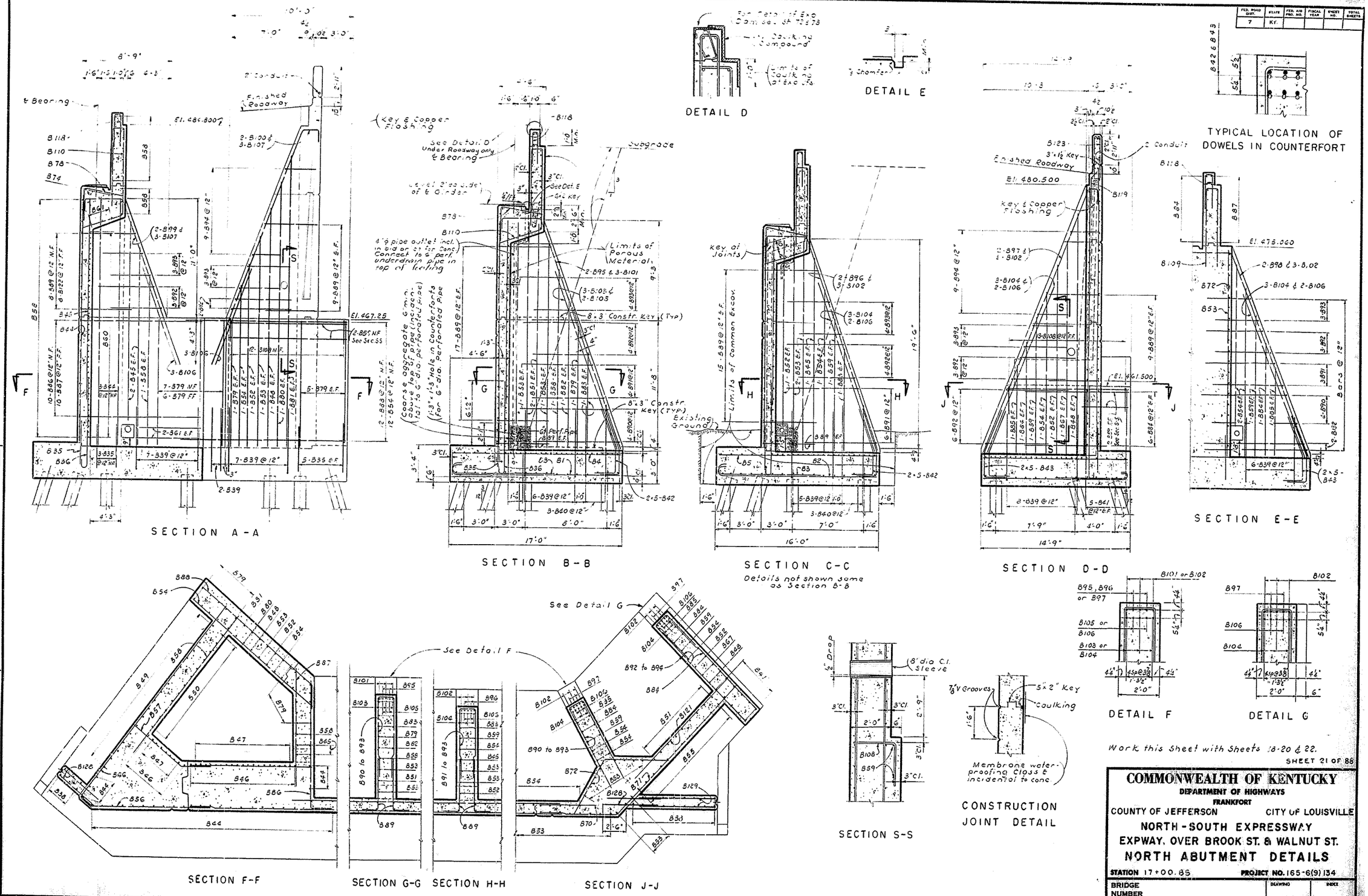
STATION 17+00.85 — PROJECT NO. 165-6(9) 134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY R.E.M.	CHECKED BY J.G.H.	DATE	
DETAILED BY J.G.H.	CHECKED BY R.E.M.	DATE	
TRACED BY M.M.	CHECKED BY R.E.M.	DATE	

REV. TO ... DATE
REVISED ... DATE
REVISED ... DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

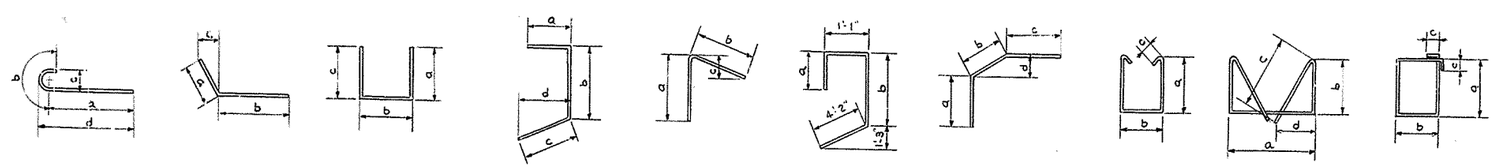


FED. ROAD PROJ.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
B1	1	51	8	17	7	Footing Bottom	16	1	1	6	0	10	16	6				
B2	1	63	3	16	7	"	15	1	1	6	0	10	15	6				
B3	1	126	8	11	8	"	10	0	1	8	0	11½	10	5½				
B4	Str	51	6	16	6	Footing Top												
B5	"	63	6	15	6	"												
B6	"	20	6	40	0	Footing Top & Bottom												
B7	"	39	7	40	0	"												
B8	"	12	8	31	3	Footing Top												
B9	"	10	6	29	8	Footing Top & Bottom												
B10	"	12	7	21	0	Footing Bottom												
B11	"	33	7	33	9	Footing Top & Bottom												
B12	"	2	8	25	3	Footing Top												
B13	"	10	6	28	6	Footing Top & Bottom												
B14	Str	16	7	31	0	Footing Top												
B15	1	3	8	18	11	Footing Bottom	17	5	1	6	0	10	17	10				
B16	1	3	8	20	5	"	18	11	1	6	0	10	19	4				
B17	1	3	8	22	4	"	20	10	1	6	0	10	21	3				
B18	1	3	8	24	5	"	22	11	1	8	0	10	23	4				
B19	Str	3	8	17	10	Footing Top												
B20	"	3	6	19	4	"												
B21	"	3	6	21	3	"												
B22	"	3	6	23	4	"												
B23	"	8	6	25	3	Footing Bottom												
B24	"	9	8	25	3	Footing Top												
B25	1	43	6	15	0	Footing Bottom	14	0	1	0	0	6	14	3				
B26	Str	43	6	14	3	Footing Top												
B27	1	43	6	7	9	Footing Bottom	6	9	1	0	0	6	7	0				
B28	1	16	6	4	0	"	3	0	1	0	0	8	3	3				
B29	2	2	6	11	0	Footing Top & Bottom	2	6	8	6	2	0						
B30	Str	1	6	7	0	Footing Bottom												
B31	"	22	8	16	6	Footing Top & Bottom												
B32	"	8	6	20	0	"												
B33	"	13	6	9	0	"												
B34	"	12	6	6	0	"												
B35	"	197	5	4	2	Footing-Stem Dowels & C'forts												
B36	1	229	6	8	6	"	8	6	1	0	0	6	8	9				
B37	1	30	11	8	5	"	6	5	2	0	1	1⅝	6	11⅝				
B38	Str	23	8	10	3	Footing-Toe Wall												
B39	3	85	9	13	1	Footing Counterfort (Dwls)	6	0½	1	5	6	0½						
B40	3	30	10	14	0	"	6	6	1	5	6	6						
B41	Str	10	5	8	0	"												
B42	4	100	10	8	7	"	2	0	2	3	4	6½	1	7½				
B43	4	20	10	8	7	"	2	0	2	3	4	6½	1	9				
B44	Str	101	5	23	0	Stem Vert. & C'fort Vert.												
B45	"	57	5	18	0	"												
B46	"	16	11	23	0	Stem Vertical												
B47	"	14	11	12	0	"												
B48	"	60	5	22	0	Stem & C'Fort Vert.Stem & B'Wall Horiz.												
B49	"	18	5	32	0	Stem Vertical												
B50	"	12	6	25	0	"												
B51	"	73	5	21	0	Stem & C'Fort Vertical												
B52	"	72	5	17	0	"												
B53	"	130	5	19	0	Stem & C'Fort Vert.Stem & B'Wall Horiz.												
B54	"	55	5	15	0	" " ", C'Fort Horiz.												
B55	"	34	5	26	3	Stem Horizontal												
B56	2	27	5	13	3	"	1	3	12	0	0	9						
B57	2	31	5	8	8	Stem & B'Wall Horizontal	3	0	5	9	2	4						
B58	Str	105	5	18	0	Stem & B'Wall Horiz.& C'Fort Vert.												
B59	"	39	5	12	0	Stem Horiz., & C'Fort Vert.												
B60	1	58	5	6	8	Stem Horizontal	5	10	0	10	0	5	6	0½				
B61	Str	9	5	8	0	Stem, C'Fort & B'Wall Horiz.												
B62	1	19	5	22	8	Stem Horizontal	21	10	0	10	0	5	22	0½				

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
B63	Str	19	5	20	4	Stem & B'Wall Horiz.												
B64	1	19		21	0	Stem Horizontal	20	2	0	10	0	5	20	4½				
B65	1	49		7	4	"	6	6	0	10	0	5	6	8½				
B66	2	24		24	0	"	1	3	22	10	0	0						
B67	Str	23		20	0	Stem & B'Wall Horiz.& C'Fort Vert												
B68	1	17		20	7	Stem Horizontal	19	9	0	10	0	5	19	11½				
B69	1	16		23	3	"	22	5	0	10	0	5	22	7½				
B70	Str	22		7	0	"												
B71	2	20		24	0	"	7	6	16	2	6	2						
B72	2	14		12	0	"	6	0	6	0	3	0						
B73	3	3		7	5	Bridge Seat	2	8	2	7	2	6						
B74	2	9		18	5	"	2	6	16	0	0	0						
B75	2	9		8	6	"	2	6	6	0	0	0						
B76	2	3		21	10	"	2	6	19	5	0	0						
B77	2	3		18	11	"	2	6	16	6	0	0						
B78	5	142		6	11	"	3	0	4	0	0	8						
B79	Str	35		11	5	Counterfort Vertical												
B80	"	2		24	6	"												
B81	"	2		27	0	"												
B82	"	12		14	0	C'Fort Vert. & Back Wall Horiz.												
B83	"	30		9	0	"												
B84	"	26		10	0	"												
B85	"	6		8	0	"												
B86	2	10		14	0	C'Fort Horizontal	2	1	12	0	0	0						
B87	Str	17		11	0	C'Fort & Back Wall Horiz.												
B88	2	12		16	0	Counterfort Horizontal	2	0	14	0	1	3						
B89	2	384		7	0	"	2	1	5	0	0	0						
B90	3	24		18	6	"	8	7	1	6	8	7						
B91	3	53		16	6	"	7	7	1	6	7	7						
B92	3	57		13	6	"	6	1	1	6	6	1						
B93	3	52		10	6	"	4	7	1	6	4	7						
B94	3	18	5	7	6	"	3	1	1	6	3	1						
B95	4	10	10	27	1	C'Fort Main Reinforcement	1	0	4	0	22	6	21	2				
B96	4	10	10	25	7	"	1	0	4	0	21	0	19	9				
B97	4	2	10	28	1	"	1	0	1	0	26	6	24	6				
B98	4	2	10	25	1	"	1	0	4	0	20	6	19	0				
B99	4	2	10	21	1	"	1	0	4	0	16	6	15	4				
B100	4	2	10	25	7	"	1	0	1	6	23	6	21	10				
B101	Str	15	10	22	0	"												
B102	"	21	10	20	6	"												
B103	"	15	10	17	6	"												
B104	"	21	10	16	6	"												
B105	"	10	10	11	0	"												
B106	"	20	10	10	0	"												
B107	"	6	10	14	0	"												
B108	2	25	5	4	0	Wing Wall Seat	2	0½	2	0½	0	0						
B109	3	18	5	16	7	Back Wall Vertical	8	0	1	1	7	8						
B110	6	92	5	19	10	"	7	3	7	6								
B111	6	8	5	22	10	"	8	9	9	0								
B112	2	4	5	10	0	"	2	0	8	1	0	0						
B113	3	1	5	14	0	"	10	0	1	2	3	0						
B114	3	1	5	15	1	"	10	3	2	0	3	0						
B115	3	1	5	15	11	"	10	3	2	10	3	0						
B116	3	1	5	16	9	"	10	3	3	8	3	0						
B117	3	1	5	17	7	"	10	3	4	6	3	0						
B118	3	109	4	6	5	"	3	0	0	7	3	0						
B119	2	34	5	4	9	"	0	9	4	0	0	6½						
B120	7	4	5	5	9	"	2	0	0	9	3	1	0	3				
B121	Str	33	5	13	1	Backwall & Stem Horizontal												
B122	1	8	5	5	8	Counterfort-Horizontal	4	10	0	10	0	5	5	0½				
B123	8	66	4	8	10	Parapet Vertical	4	0	0	6	0	3						
B124	Str	6	4	19	1	Parapet Horizontal												

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
B125	Str	6	4	13	1	Parapet Horizontal												
B126	9	53	4	5	7	Exp. Jt.	1	7	0	11	1	2	0	9				
B127	10	56	4	4	7	"	1	7	0	7	0	3						
B128	Str	16	6	4	0	Stem-Toe Wall												
B129	Str	16	6	7	6	"												
B130	6	12	5	23	7	Parapet-Horizontal	9	2	9	4								
B131	Str	16	6	6	0	Stem-Toe Wall												
B132	3	2	5	21	6	Counterfort-Horizontal	10	1	1	8	10	1						



DATE ___ REVISED ___
DATE ___ REVISED ___
DATE ___ REVISED ___

DESIGNED BY R.E.M. CHECKED BY J.G.M. DATE
DETAILED BY J.G.M. CHECKED BY R.E.M. DATE
TRACED BY S.B. CHECKED BY R.E.M. DATE

SHEET 22 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
NORTH ABUTMENT

STATION 17+00.85 PROJECT NO. I65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

STATE	FED. AID PROJ. NO.	FISCAL YEAR
KY.		

	D		C	
N. FT	IN.	FT	IN.	F
2 1	0	0	6	
0 1	0	0	6	
7 1	2	0	7	
16	9	0	6½	
3	1	0	6½	
2	10	0	6½	
2	7	0	6½	
2	4	0	6½	
0	6	0	3	
2	0	1	3	
16	11	0	6½	
17	1	0	6½	

TYPE 4

Sheet 21

SHEET 23

KENTUCK
HWAYS

CITY OF LOUIS

ESSWAY
3 WALNUT S

DETAILS

T NO. I 65-6(9)1

DRAWING NO. 14843

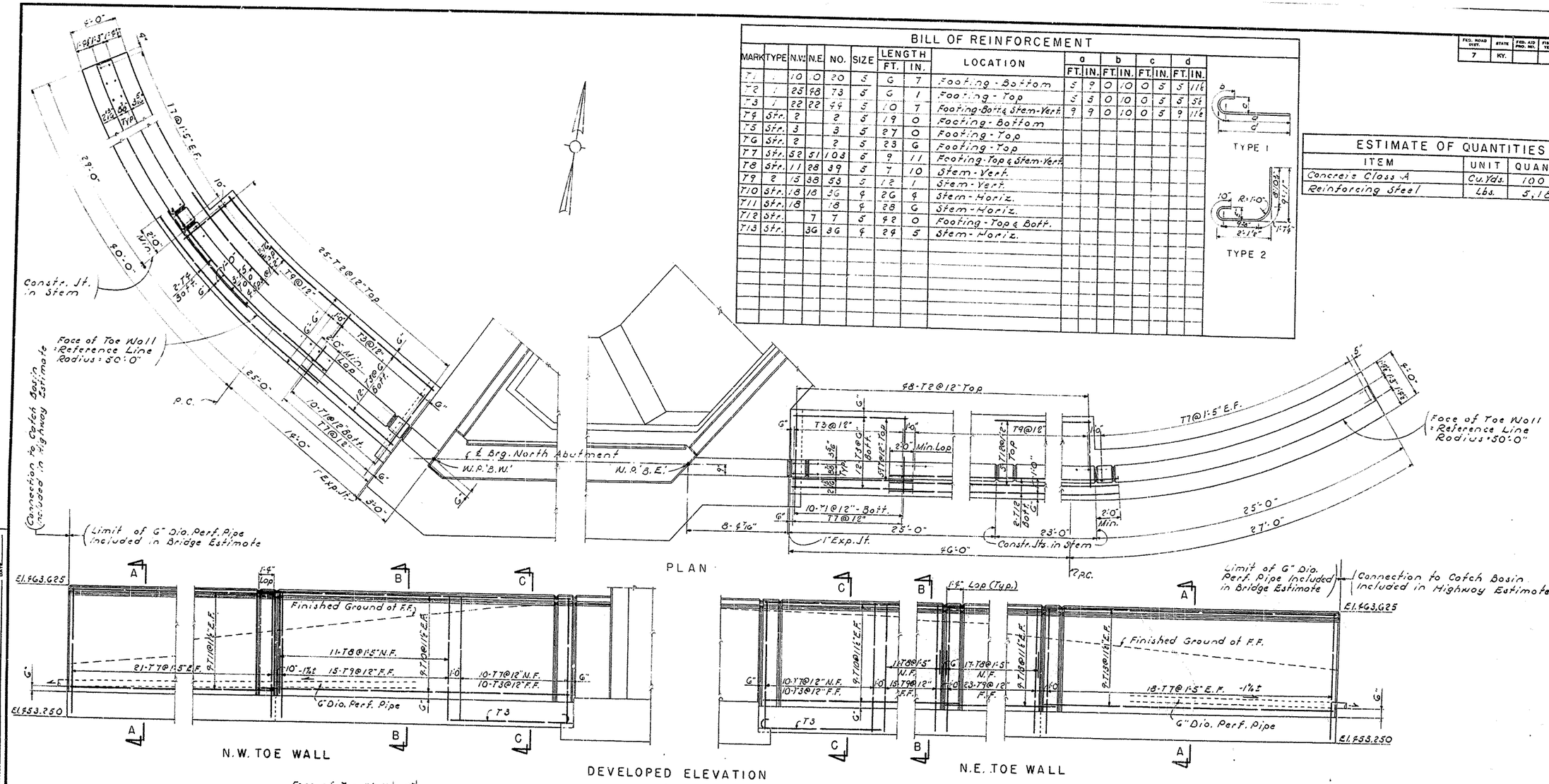
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
7	KY.			

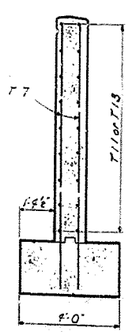
BILL OF REINFORCEMENT

MARK	TYPE	N.W.	N.E.	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.
T1	1	10	0	20	5	6	7	Footing - Bottom	5	9	0	10	0	5	5	11½
T2	1	25	98	73	5	6	1	Footing - Top	5	3	0	10	0	5	5	5½
T3	1	22	22	44	5	10	7	Footing-Bott.& Stem-Vert.	9	9	0	10	0	5	9	11½
T4	Str.	2		2	5	19	0	Footing - Bottom								
T5	Str.	3		3	5	27	0	Footing - Top								
T6	Str.	2		2	5	23	6	Footing - Top								
T7	Str.	52	51	103	5	9	11	Footing-Top & Stem-Vert.								
T8	Str.	11	28	39	5	7	10	Stem - Vert.								
T9	2	15	38	53	5	12	1	Stem - Vert.								
T10	Str.	18	18	36	4	26	4	Stem - Horiz.								
T11	Str.	18		18	4	28	6	Stem - Horiz.								
T12	Str.		7	7	5	42	0	Footing - Top & Bott.								
T13	Str.		36	36	4	24	5	Stem - Horiz.								

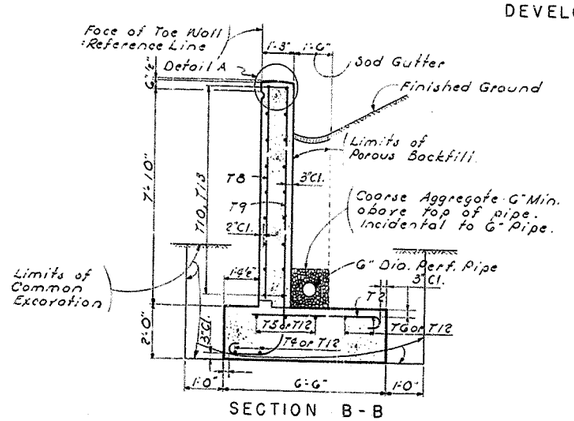
ESTIMATE OF QUANTITIES

ITEM	UNIT	QUANTITY
Concrete Class A	Cu.Yds.	100.5
Reinforcing Steel	Lbs.	5,181

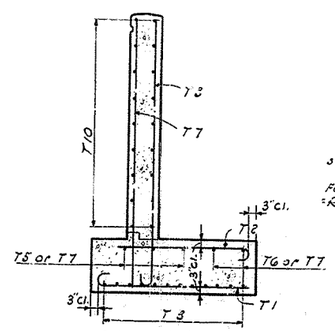




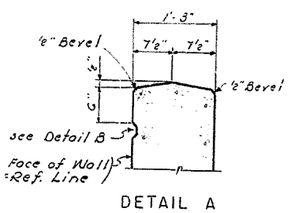
SECTION A-A



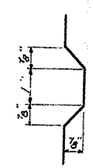
SECTION B-B



SECTION C-C



DETAIL A



DETAIL B

NOTES:

All Longitudinal dimensions are measured along the Reference Line.

All Transverse dimensions are measured normal to the Reference Line.

All Longitudinal bars to be bent in field as required to follow the curve of the wall.

SHEET 25 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY

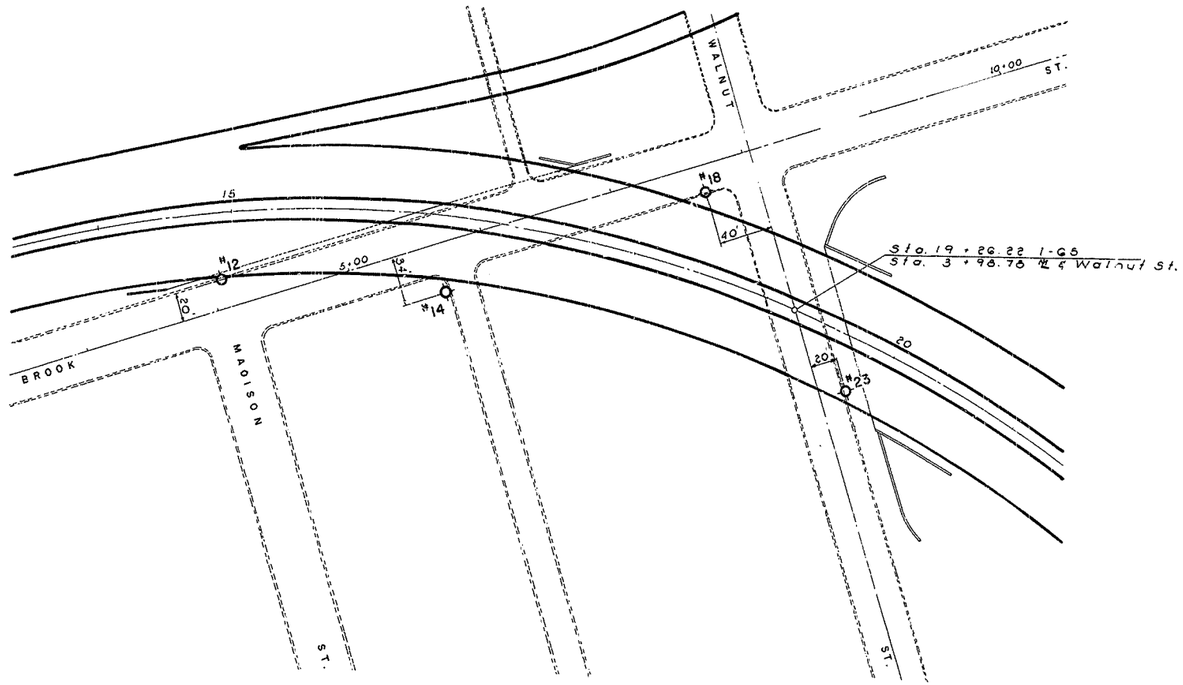
EXPWAY. OVER BROOK ST. & WALNUT ST.

NORTH TOE WALL DETAILS

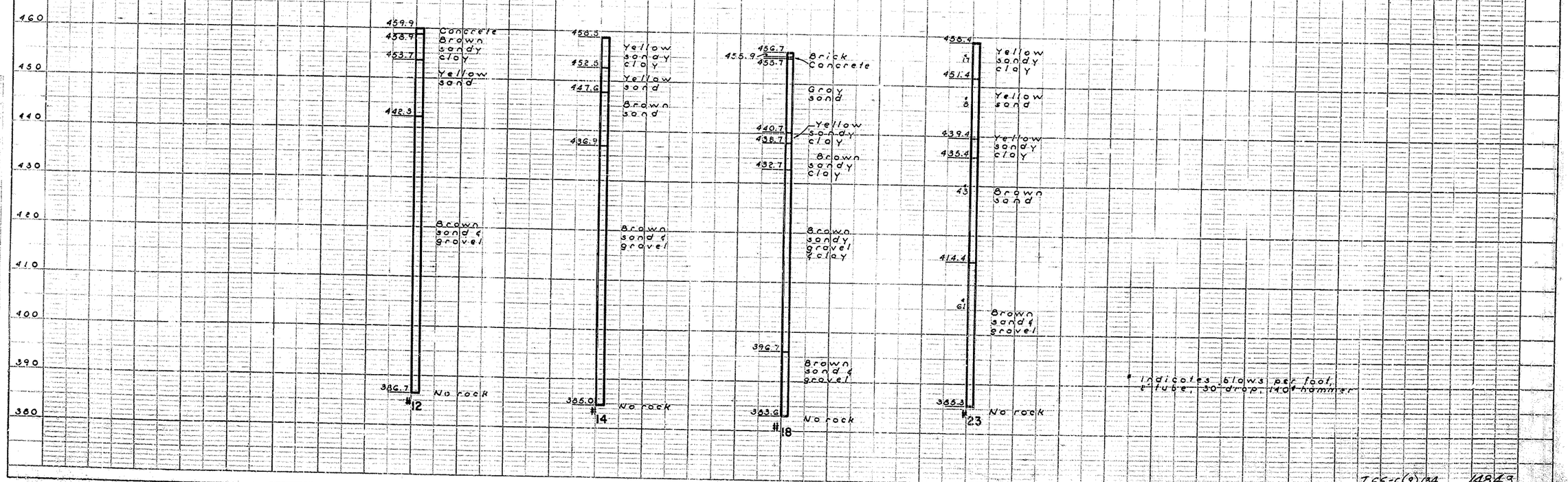
STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY R.E.H.	CHECKED BY E.K.	DATE	REVISED
DETAILED BY J.G.H.	CHECKED BY A.P.N.	DATE	REVISED
TRACED BY M.H.	CHECKED BY A.P.N.	DATE	REVISED



JEFFERSON COUNTY
NORTH - SOUTH EXPRESSWAY
EXPRESSWAY OVER BROOK ST. & WALNUT ST.
SOUNDINGS

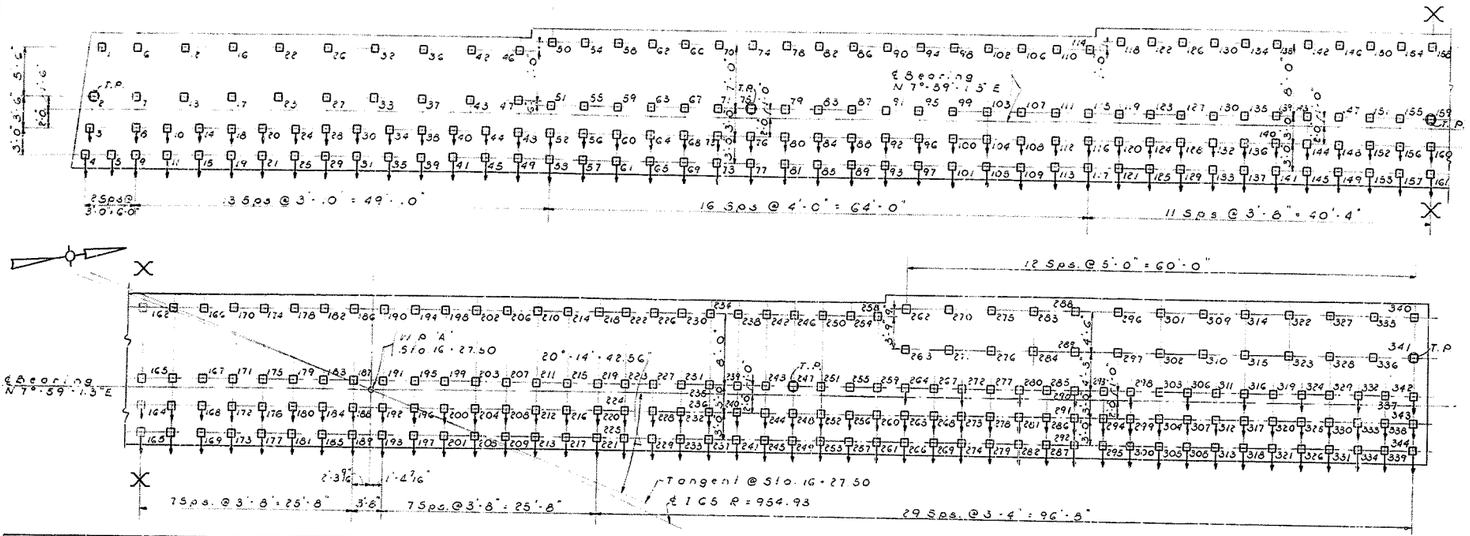


I 65-6(9) 134 14843

SHEET 26 OF 65

PLATE 1 (FLAT, PENCILS) FOR R. & B. E. STANDARD
NEUFELD & LEICH P.O., NEW YORK.

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



LEGEND:

□ Indicates vertical piles

Indicates battered piles 4 on 1

$Q_{T.P.}$ Indicates test piles (45' long)

PILE RECORD
SOUTH ABUTMENT

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
1	454.750			
2	↑			
3				
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50				
51				
52				
53				
54	454.750			

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
55	454.750			
56	↑			
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105				
106				
107	↓			
108	454.750			

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
109	454.750			
110	↑			
111				
112				
113	454.750			
114	453.500			
115	↑			
116				
117				
118				
119				
120				
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160				
161	↓			
162	453.500			

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
163	453.500			
164	↑			
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213				
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215	↓			
216	453.500			

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
217	453.500			
218	↑			
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230				
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232				
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234				
235				
236	↓			
237	453.500			
238	452.500			
239	↑			
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291				
292	↓			
293	452.500			

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
294	452.500			
295	↑			
296				
297				
298				
299				
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337				
338				
339				
340				
341				
342				
343	↓			
344	452.500			

Work this Sheet with Sheet No. 28

SHEET 27 OF 88

DESIGNED BY: E.F.V. CHECKED BY: R.P. DATE
DETAILED BY: W.T. CHECKED BY: R.P. DATE
TRACED BY: CHECKED BY: DATE
REVISED: DATE
REVISED: DATE
REVISED: DATE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

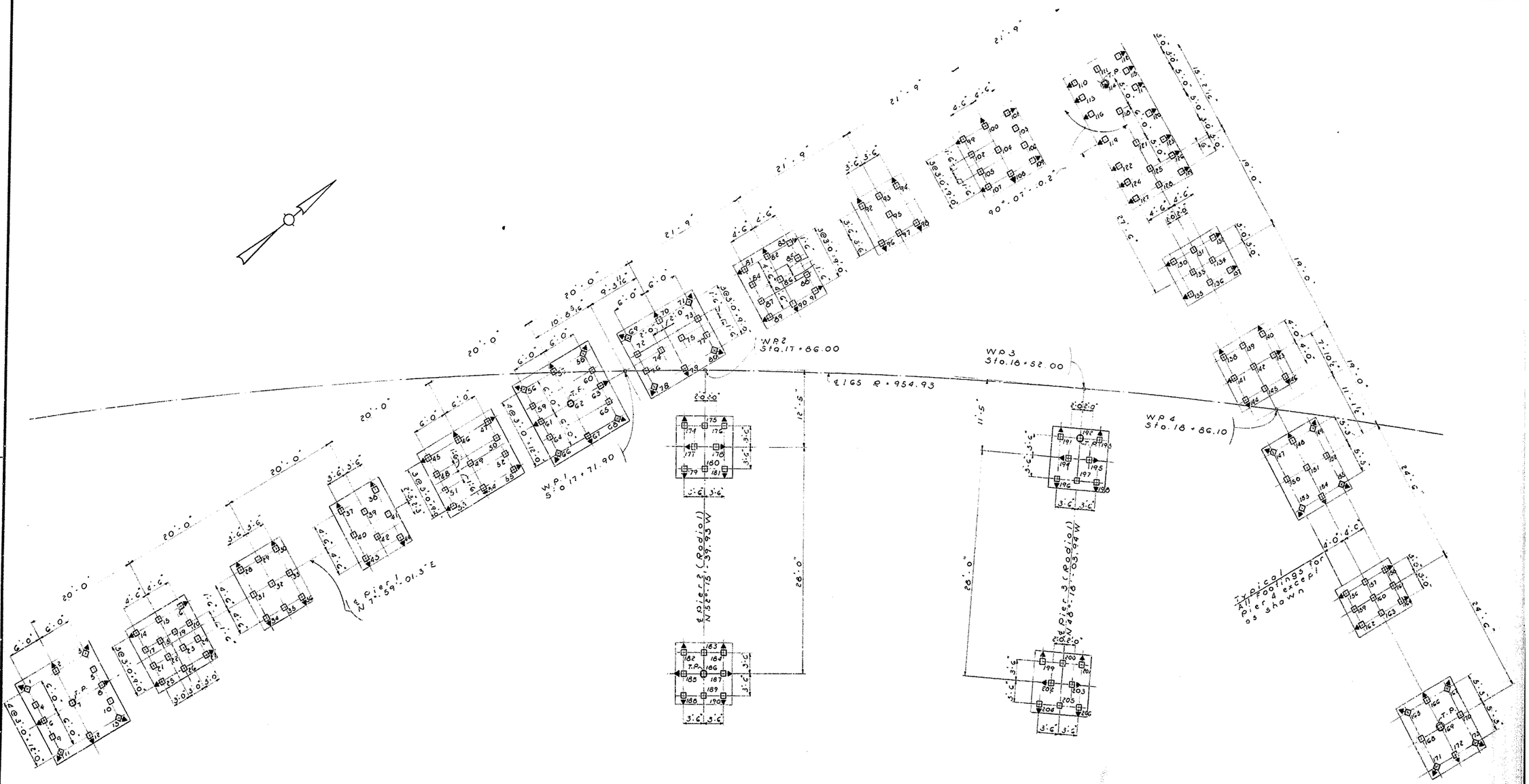
NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

PILE RECORD SOUTH ABUTMENT

STATION 17+00.85 — PROJECT NO. I 65-6(9)13¢

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHEETS
7	KY.				



Work this Sheet with Sheet 29

SHEET 28 OF 88

NOTE:

This pile record does not replace other records of piles required to be kept and submitted by the Resident Engineer. After all piles have been driven the Resident Engineer shall record the tip of pile elevation as driven, the length of pile in place, the calculated bearing capacity of each pile, and shall return one blue print copy of this sheet with this data to the Director of Bridges so that the data may be recorded on the original plans. Lengths of piles in place shown hereon are the actual lengths of piles in the finished structure below cut-off elevation and are not necessarily pay items.

LEGEND:

- □ Indicates vertical piles
- □→ Indicates battered piles (2 on 12)
- Q T.P. Indicates test piles (45' long)

DRAWN BY: C.F.V. CHECKED BY: R.D. DATE:
DETAILED BY: W.T. CHECKED BY: R.D. DATE:
TRACED BY: CHECKED BY: DATE:
REVISED: REVISED: REVISED:

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY OVER BROOK ST. & WALNUT ST.

PILE RECORD

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

PILE RECORD
PIERS

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
1	449.500			
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13	449.500			
14	450.000			
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27	450.000			
28	450.500			
29				
30				
31				
32				
33				
34				
35				
36	450.500			
37	451.000			
38				
39				
40				
41				
42	451.000			

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
43	451.000			
44	451.000			
45	451.500			
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
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61				
62				
63				
64				
65				
66				
67				
68	451.500			
69	452.500			
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84	452.500			

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
85	452.500			
86				
87				
88				
89				
90				
91	452.500			
92	452.000			
93				
94				
95				
96				
97				
98				
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114				
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116				
117				
118				
119				
120				
121				
122				
123				
124				
125				
126	452.000			

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
127	452.000			
128	452.000			
129	452.000			
130	451.500			
131				
132				
133				
134				
135				
136				
137	451.500			
138	451.000			
139				
140				
141				
142				
143				
144				
145				
146	451.000			
147	452.000			
148				
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151				
152				
153				
154				
155	452.000			
156	451.000			
157				
158				
159				
160				
161				
162				
163				
164	451.000			
165	450.000			
166				
167				
168	450.000			

PILE NO.	CUT OFF ELEVATION AS SHOWN ON PILES	TIP OF PILE ELEVATION AS DRIVEN	PILE LENGTH IN PLACE LIN. FT.	CALCULATED BEARING CAPACITY TONS
169	450.000			
170				
171				
172				
173	450.000			
174	453.000			
175				
176				
177				
178				
179				
180				
181				
182				
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194				
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198				
199				
200				
201				
202				
203				
204				
205				
206	453.000			

REVISED ____ DATE ____
REVISED ____ DATE ____
REVISED ____ DATE ____

DESIGNED BY ____ CHECKED BY ____ DATE ____
DETAILED BY E.F.V. CHECKED BY R.P. DATE ____
TRACED BY W.T. CHECKED BY R.P. DATE ____

Work this sheet with Sheet 28

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

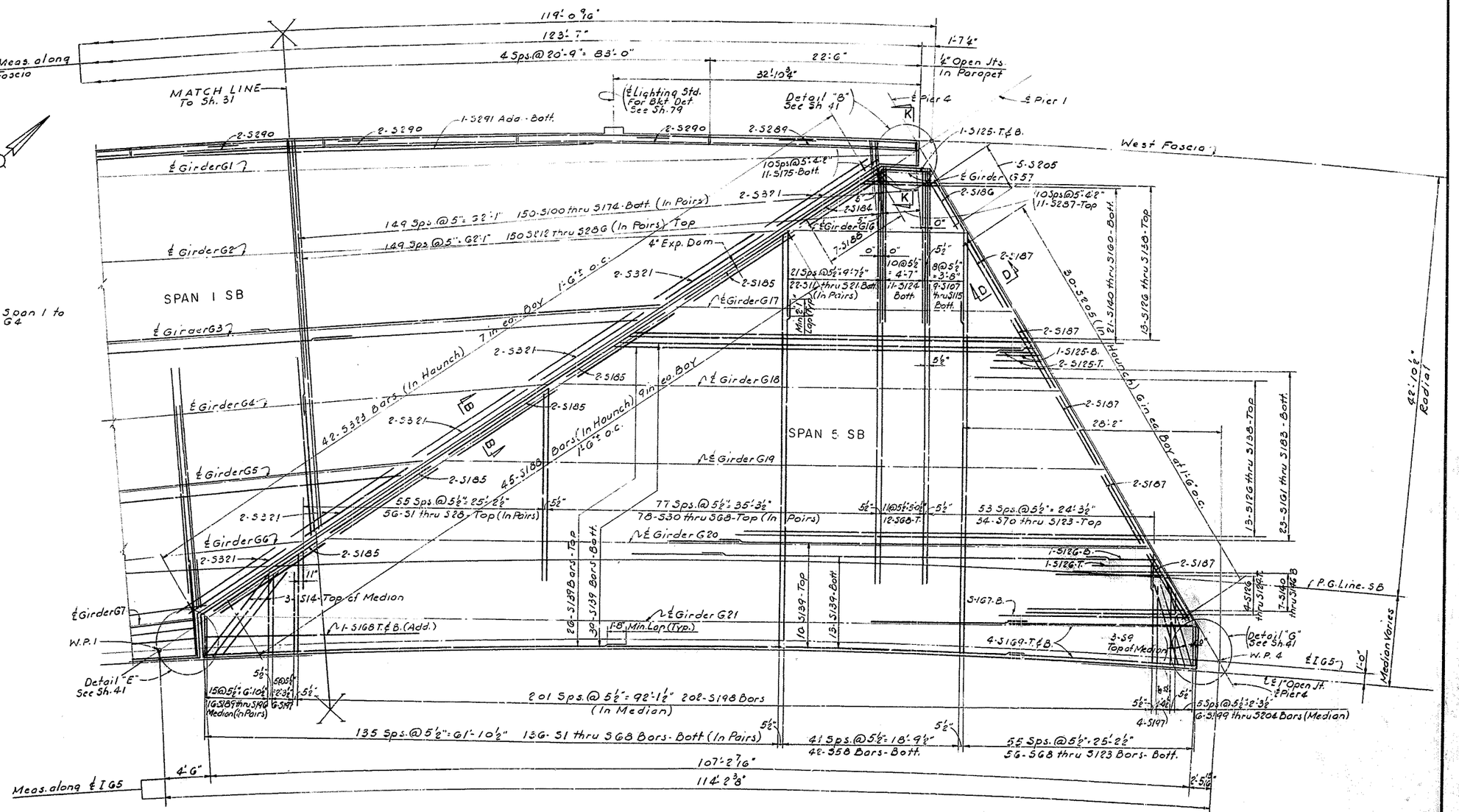
NORTH-SOUTH EXPRESSWAY
EXPWAY OVER BROOK ST. & WALNUT ST.
PILE RECORD

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

WEALT
DEPARTMENT
FRAN
ERSON
I-SOUTH
ER BRO
ECORD N

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



Note:
All main reinforcing in Span 1 to be placed normal to Girder G4

Note: All main reinforcing in Span 5 to be placed normal to Girder G19.
Work this Sheet with Sheets 31, 39 to 41, 43, 44 & 87

SHEET 32 OF 88

DESIGNED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED
DETAILED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED
TRACED BY H.B.D.	CHECKED BY A.M.P.	DATE	REVISED

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

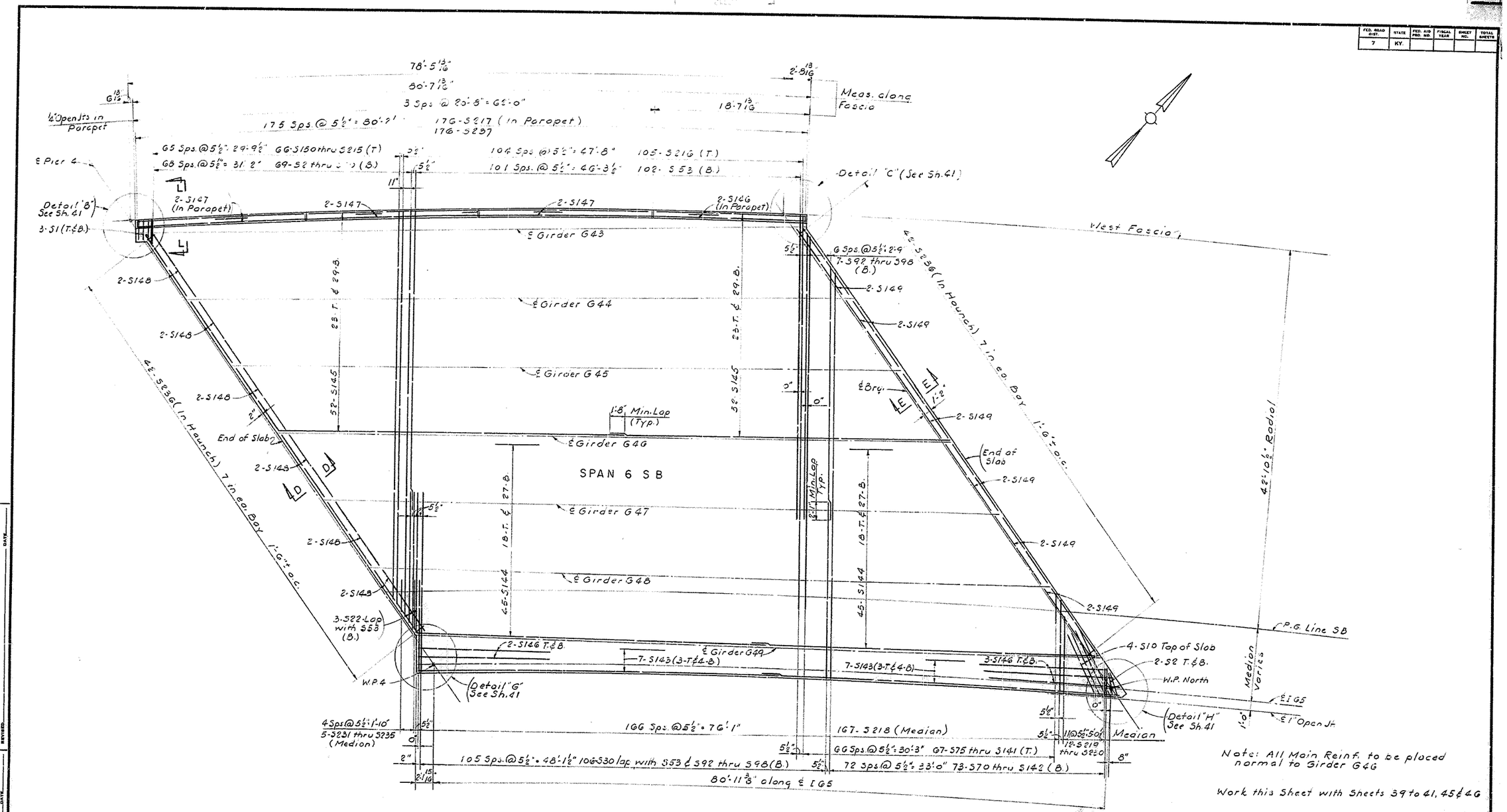
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SUPERSTRUCTURE - SPANS 1 & 5 SB

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING No. 14843 — INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



Note: All Main Reinf. to be placed normal to Girder G46

Work this Sheet with Sheets 39 to 41, 45 & 46

SHEET 33 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

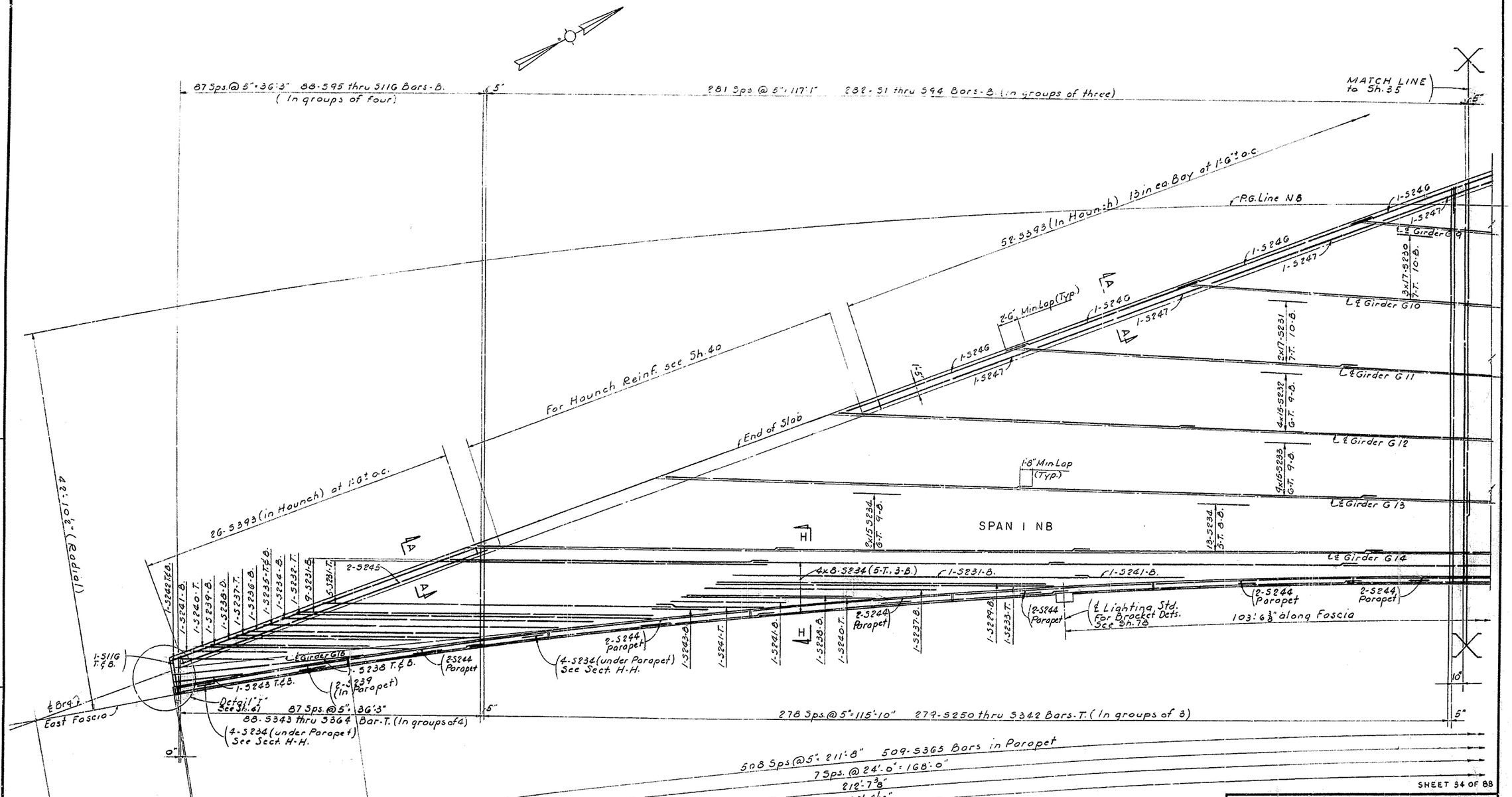
NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SUPERSTRUCTURE - SPAN 6 SB

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY R.P. — CHECKED BY A.M.P. — DATE
DETAILED BY R.P. — CHECKED BY A.M.P. — DATE
TRACED BY M.A.D. — CHECKED BY A.M.P. — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



Note:
All main reinforcing bars to be placed normal to Girder G14.

Work this Sheet with Sheets 35, 39 to 41 & 46 to 48.

SHEET 34 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

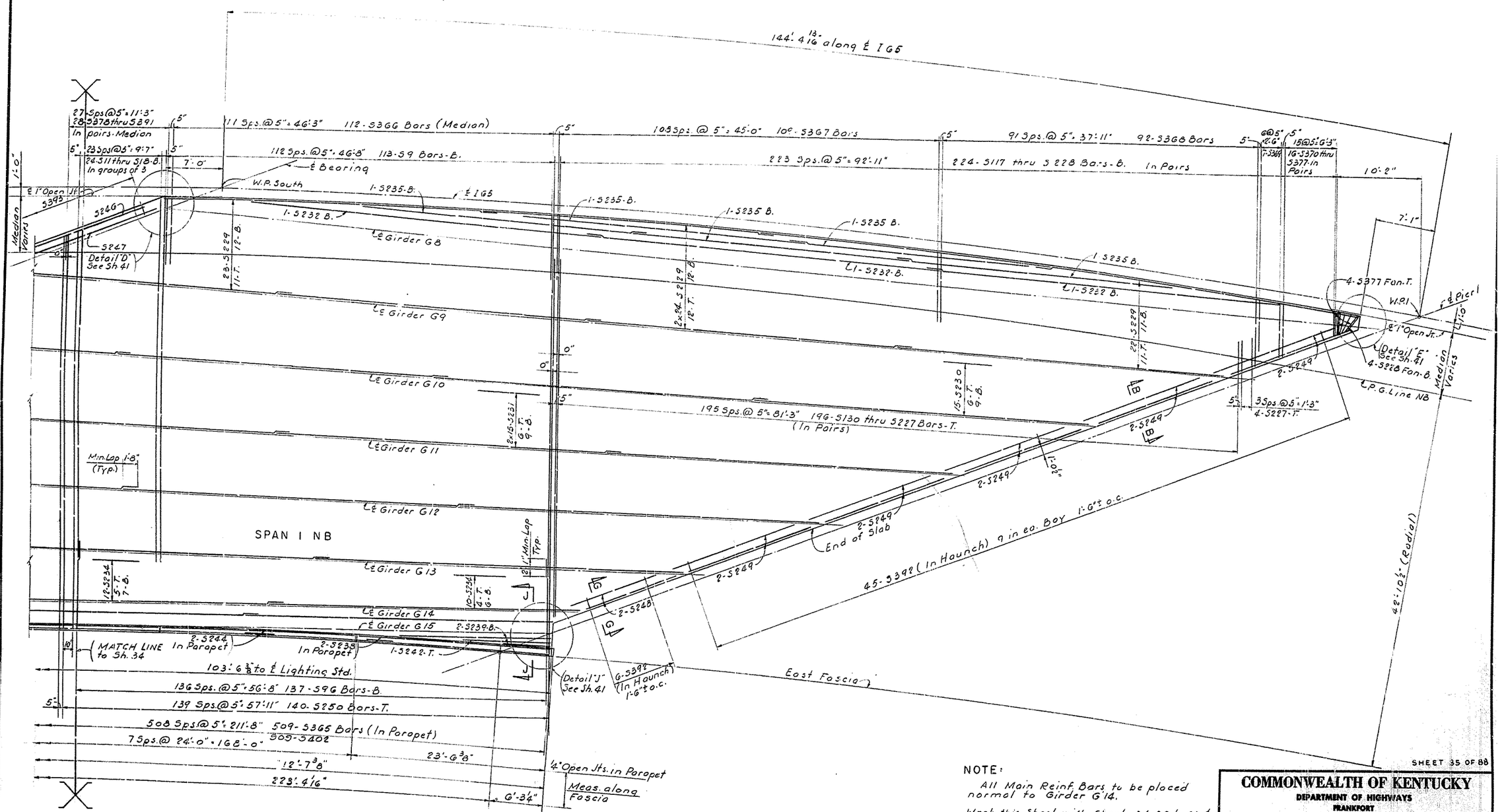
NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SUPERSTRUCTURE - SPAN I NB

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED
DETAILED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED
TRACED BY M.A.D.	CHECKED BY A.M.P.	DATE	REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



NOTE:

All Main Reinf. Bars to be placed normal to Girder G14.

Work this Sheet with Sheets 34, 39 to 41 & 46 to 48.

SHEET 35 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

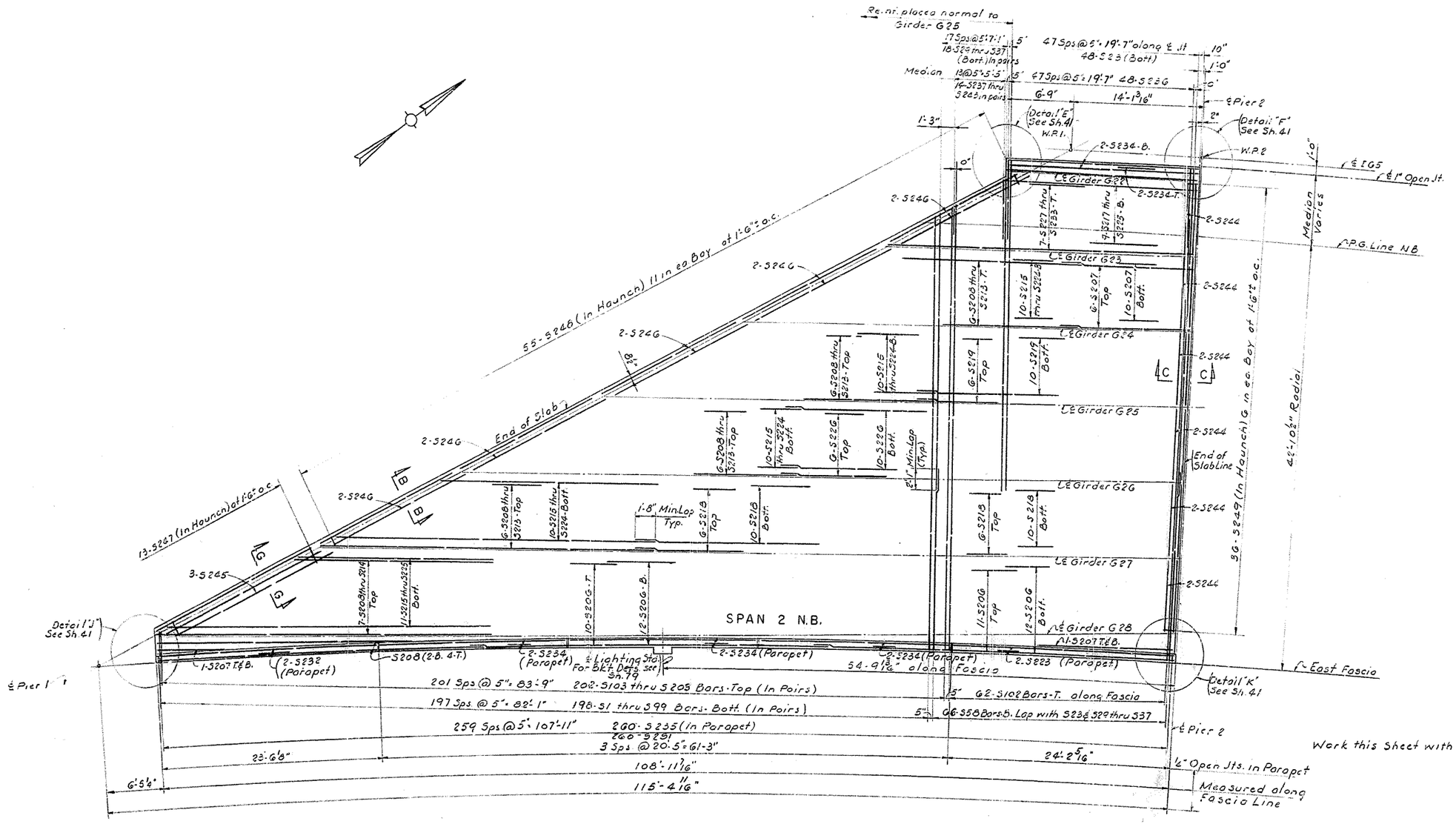
NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SUPERSTRUCTURE - SPAN I NB

STATION 17 + 00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY A.P. — CHECKED BY A.M.P. — DATE
DETAILED BY R.P. — CHECKED BY A.M.P. — DATE
TRACED BY M.S.D. — CHECKED BY A.M.P. — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



Work this Sheet with Sheets 39 to 41, 48, 49 & 87

SHEET 36 OF 88

DESIGNED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED
DETAILED BY R.P.	CHECKED BY A.H.F.	DATE	REVISED
TRACED BY M.A.D.	CHECKED BY A.M.P.	DATE	REVISED

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

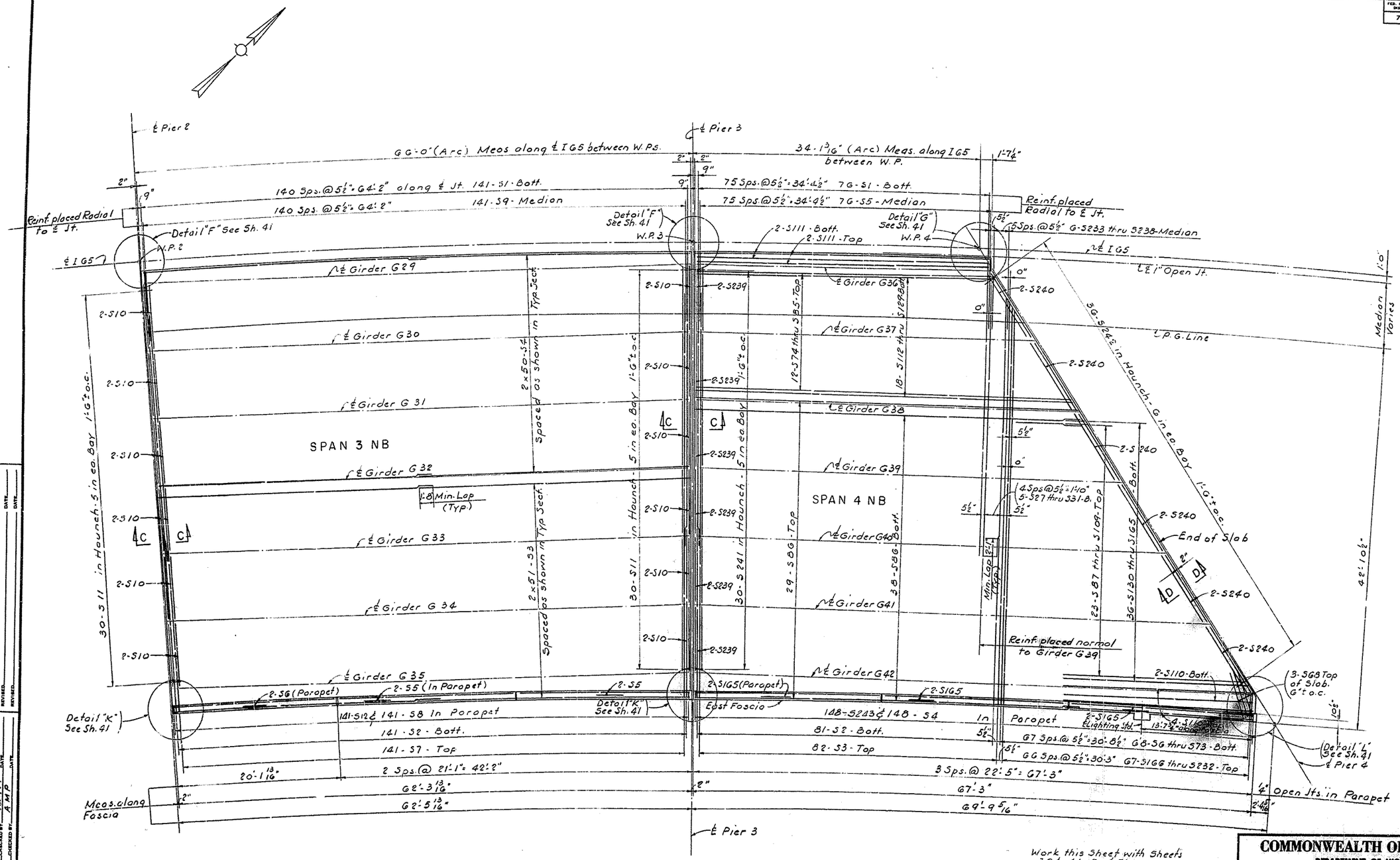
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SUPERSTRUCTURE - SPAN 2 N.B.

STATION 17+00.85 — PROJECT NO. I 65-6(9) 134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



Work this sheet with Sheets 39 to 41, 50 & 51.

SHEET 37 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

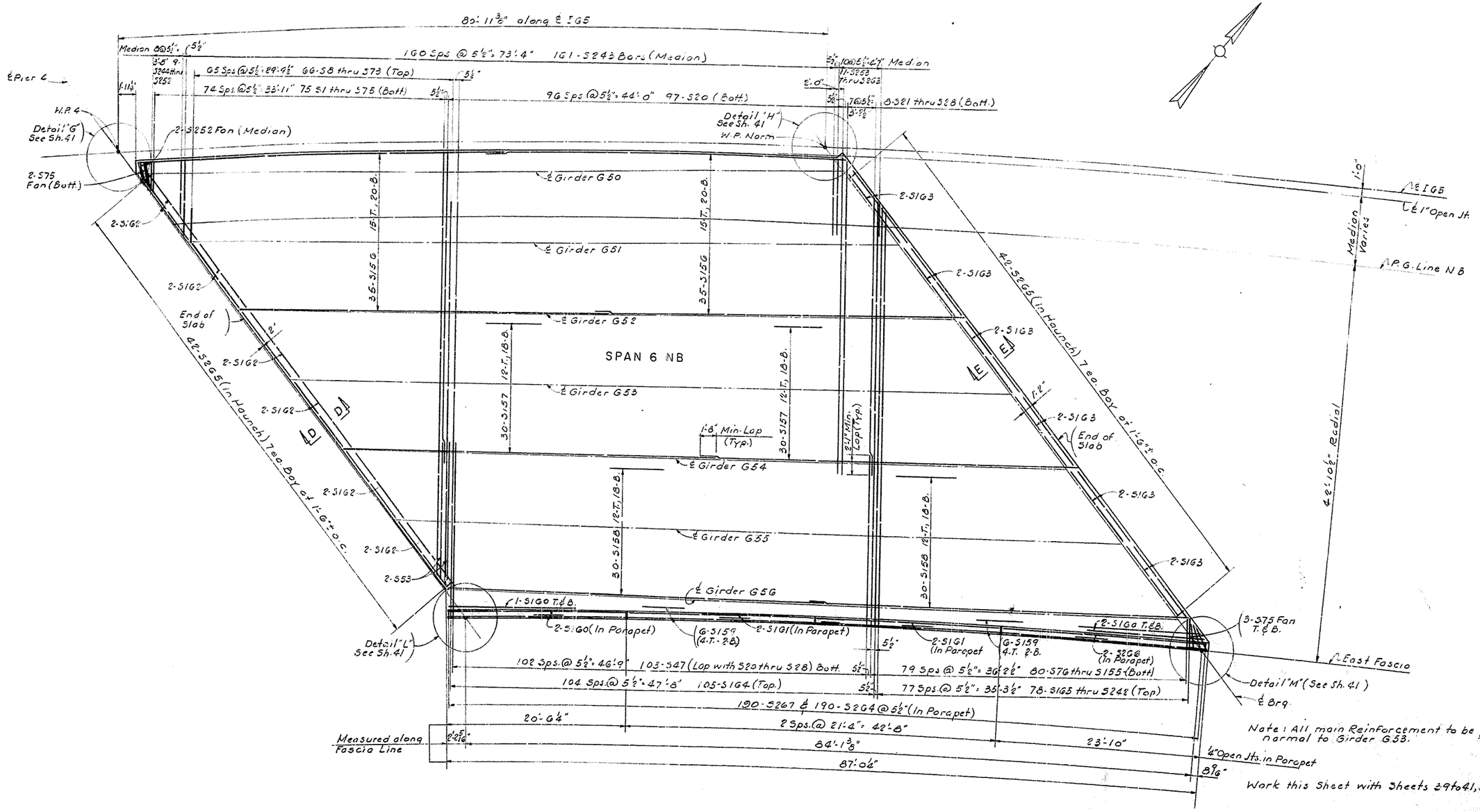
NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SUPERSTRUCTURE - SPANS 3 & 4 NB

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY R.P. CHECKED BY A.M.P. DATE
DETAILED BY R.P. CHECKED BY A.M.P. DATE
TRACED BY M.B.D. CHECKED BY A.M.P. DATE
REVISED DATE
REVISED DATE
REVISED DATE

FED. BRIDGE NOT.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



Note: All main Reinforcement to be placed normal to Girder G53.

Work this Sheet with Sheets 29 to 41, 51 & 52.

SHEET 38 OF 88

DESIGNED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED
DETAILED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED
TRACED BY M.B.O.	CHECKED BY A.M.P.	DATE	REVISED

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY

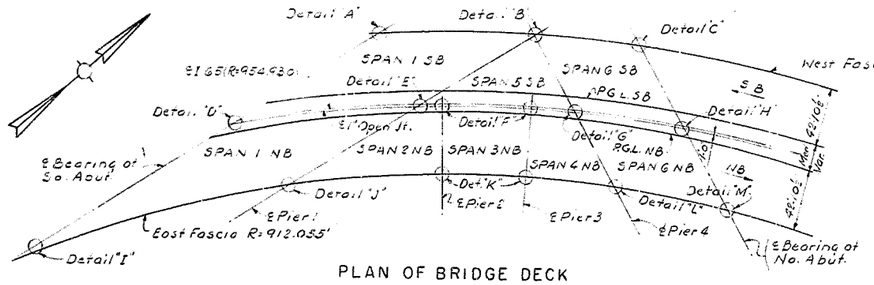
EXPWAY. OVER BROOK ST. & WALNUT ST.

SUPERSTRUCTURE - SPAN 6 N B

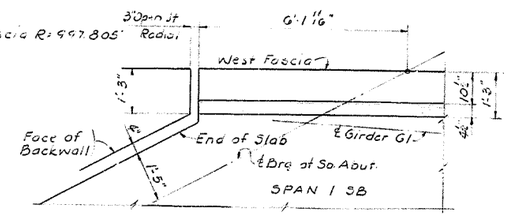
STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

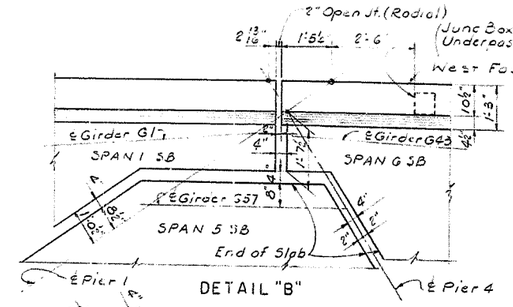
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



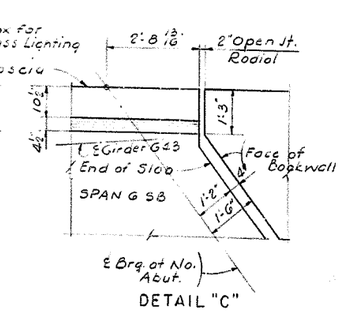
PLAN OF BRIDGE DECK



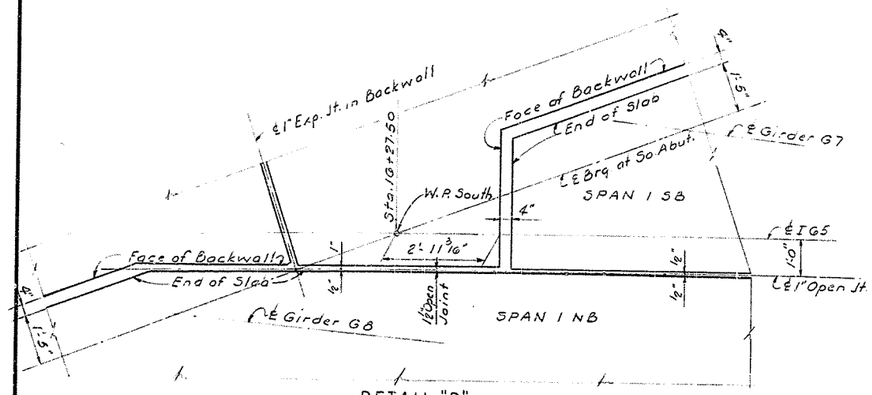
DETAIL "A"



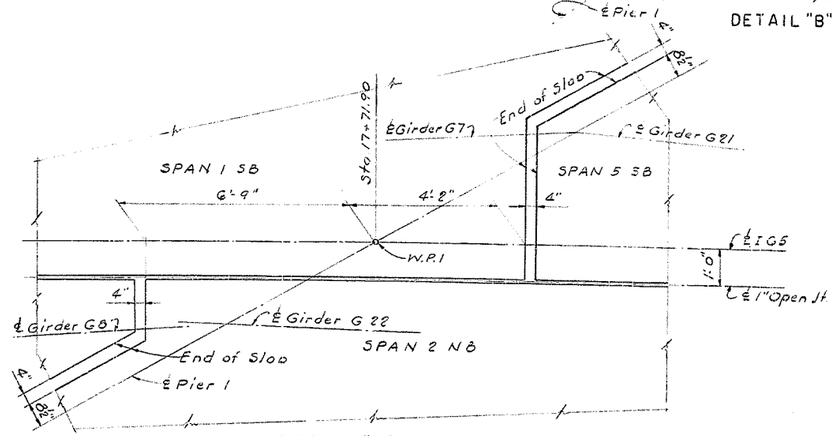
DETAIL "B"



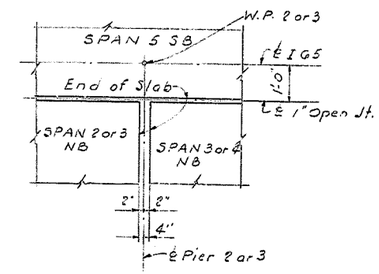
DETAIL "C"



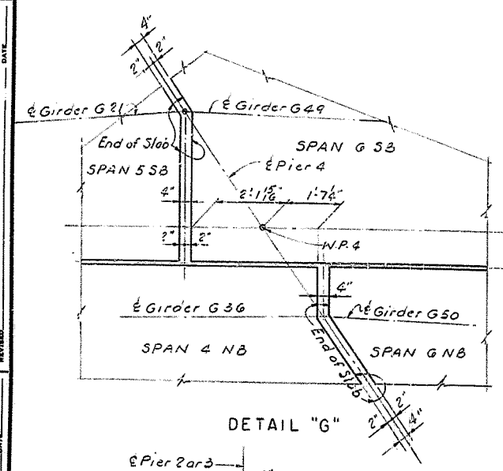
DETAIL "D"



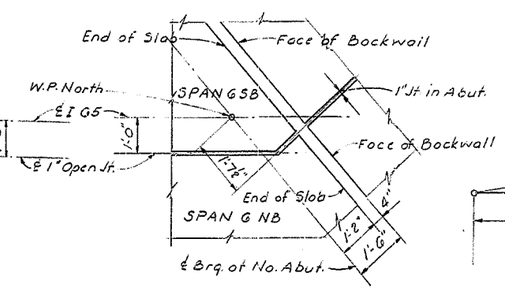
DETAIL "E"



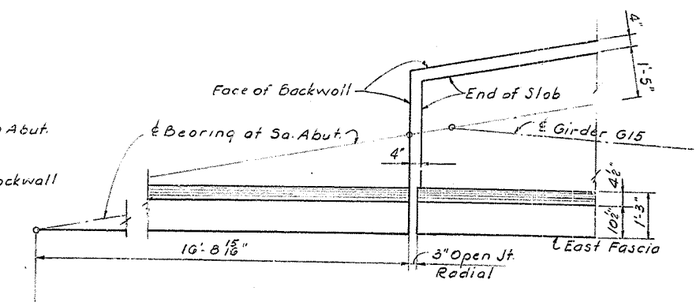
DETAIL "F"



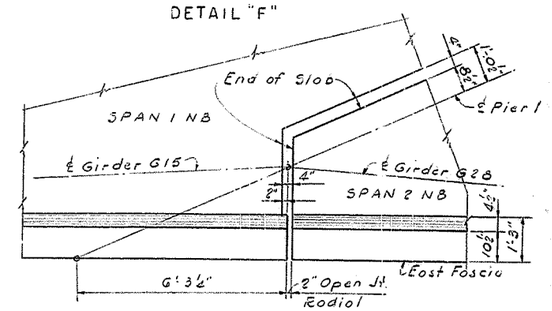
DETAIL "G"



DETAIL "H"

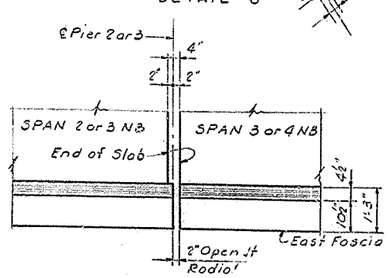


DETAIL "I"

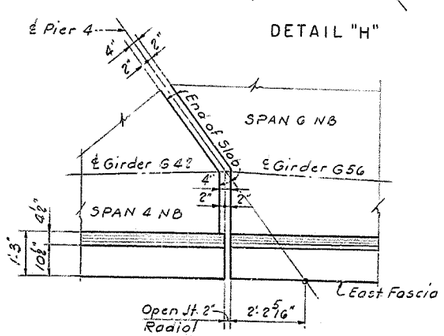


DETAIL "J"

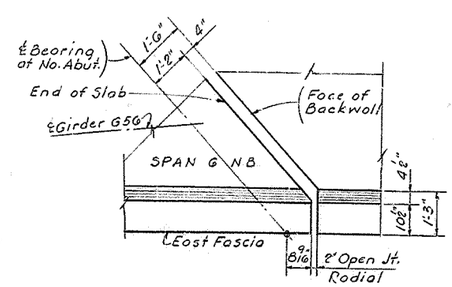
Work this sheet with Sheets 31 to 40



DETAIL "K"



DETAIL "L"



DETAIL "M"

SHEET 41 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SUPERSTRUCTURE DETAILS

STATION 17+00.85 — PROJECT NO. I 65-6(9) 134

BRIDGE NUMBER	DRAWING NO.	INDEX
	14843	

DESIGNED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED DATE
DETAILED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED DATE
TRACED BY M.B.D.	CHECKED BY A.M.P.	DATE	REVISED DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
7	KY.			

S P A N 1 SB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S 1	Str.	2	5	38	2	Slab-Bottom-Transverse												
S 2		2		38	9	"												
S 3		2		38	3	"												
S 4		2		37	10	"												
S 5		2		37	5	"												
S 6		2		37	0	"												
S 7		2		36	7	"												
S 8		2		36	2	"												
S 9		2		35	10	"												
S10		2		35	8	"												
S11		2		35	1	"												
S12		4		34	8	Slab-Top & Bottom Transverse												
S13		4		34	3	"												
S14		4		33	10	"												
S15		4		33	6	"												
S16		4		33	1	"												
S17		4		32	8	"												
S18		4		32	4	"												
S19		4		31	11	"												
S20		4		31	7	"												
S21		4		31	2	"												
S22		4		30	9	"												
S23		4		30	5	"												
S24		4		30	0	"												
S25		4		29	8	"												
S26		4		29	3	"												
S27		4		28	10	"												
S28		136		28	6	"												
S29		4		28	2	"												
S30		4		27	9	"												
S31		4		27	5	"												
S32		4		27	1	"												
S33		4		26	8	"												
S34		4		26	3	"												
S35		4		25	10	"												
S36		99		25	5	"												
S37		109		25	1	"												
S38		59		24	7	"												
S39		4		24	3	"												
S40		4		23	11	"												
S41		49		23	7	"												
S42		4		23	3	"												
S43		4		22	11	"												
S44		4		22	7	"												
S45		4		22	2	"												
S46		4		21	9	"												
S47		4		21	5	"												
S48		4		21	1	"												
S49		4		20	9	"												
S50		4		20	4	"												
S51		4		20	0	"												
S52		2		19	8	Slab-Bottom Transverse												
S53		4		19	3	Slab-Top & Bottom Transverse												
S54		4		18	11	"												
S55		4		18	7	"												
S56		4		18	2	"												
S57		4		17	10	"												
S58		4		17	5	"												
S59		4		17	0	"												
S60		4		18	8	"												
S61		4		18	3	"												
S62	Str.	4	5	15	10	"												
S63	Str.	4	5	15	6	Slab-Top & Bottom Transverse												
S64		4		15	2	"												
S65		4		14	10	"												
S66		4		14	5	"												
S87		4		14	1	"												
S68		4		13	9	"												
S69		4		13	5	"												
S70		4		13	1	"												
S71		2		12	9	Slab-Bottom Transverse												
S72		2		12	5	"												
S73		2		12	1	"												
S74		2		11	9	"												
S75		2		11	4	"												
S76		4		11	0	Slab-Top & Bottom Transverse												
S77		4		10	7	"												
S78				10	3	"												
S79				9	11	"												
S80				9	7	"												
S81				9	3	"												
S82				8	11	"												
S83				8	7	"												
S84				8	2	"												
S85				7	10	"												
S86				7	6	"												
S87				7	2	"												
S88				6	10	"												
S89				6	6	"												
S90				6	2	"												
S91				5	10	"												
S92				5	6	"												
S93				5	2	"												
S94		4		4	10	"												
S95		2		4	6	Slab-Bottom Transverse												
S96		2		4	2	"												
S97		2		3	10	"												
S98		2		3	6	"												
S99		1		3	2	"												
S100		2		39	2	"												
S101		1		38	9	"												
S102				38	3	"												
S103				37	9	"												
S104				37	4	"												
S105				36	10	"												
S106				36	4	"												
S107				35	10	"												
S108				35	4	"												
S109				34	11	"												
S110				34	6	"												
S111				34	0	"												
S112				33	6	"												
S113				33	1	"												
S114				32	7	"												
S115				32	2	"												
S116				31	8	"												
S117				31	2	"												
S118				30	8	"												
S119				30	2	"												
S120				29	9	"												
S121				29	3	"												
S122				23	9	"												
S123				28	3	"												
S124	Str.	2	5	27	9	"												
S125	Str.	2	5	27	3	Slab-Bottom-Transverse												
S126				26	9	"												
S127				26	3	"												
S128				25	9	"												
S129				25	4	"												
S130				24	10	"												
S131				24	4	"												
S132				23	10	"												
S133				23	4	"												
S134				22	10	"												
S135				22	5	"												
S136				21	11	"												
S137				21	5	"												
S138				20	11	"												
S139				20	5	"												
S140				19	11	"												
S141				19	5	"												
S142				18	11	"												
S143				18	5	"												
S144				17	11	"												
S145				17	5	"												
S146				16	11	"												
S147				16	5	"												
S148				15	11	"												
S149				15	5	"												
S150				14	11	"												
S151				14	5	"												
S152				13	11	"												
S153				13	5	"												
S154				12	11	"												
S155				12	5	"												
S156				11	11	"												
S157				11	5	"												
S158				10	11	"												
S159				10	5	"												
S160				9	11	"												
S161				9	5	"												
S162				8	11	"												
S163				8	5	"												
S164				7	11	"												
S165				7	5	"												
S166				6	11	"												
S167				6	5	"												
S168				5	10	"												
S169				5	4	"												
S170				4	10	"												
S171				4	3	"												
S172				3	9	"												
S173				3	2	"												
S174		2		2	8	"												
S175		11		2	3	"												
S176		2		11	9	Slab-Top Transverse												
S177		2		12	2	"												
S178		2		12	7	"												
S179		2		13	0	"												
S180		2		13	5	"												
S181		4		13	10	Slab-Top & Bottom Transverse												
S182		4		14	3	"												
S183		4		14	9	"												
S184		4		15	2	"												
S185		4		15	7	"												
S186	Str.	6	5	16	0	"												

DESIGNED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED
DETAILED BY R.P.	CHECKED BY A.M.P.	DATE	REVISED
TRACED BY S.B.	CHECKED BY A.M.P.	DATE	REVISED

SHEET 42 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
DECK

STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER	DRAWING	INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

S P A N 1 S B

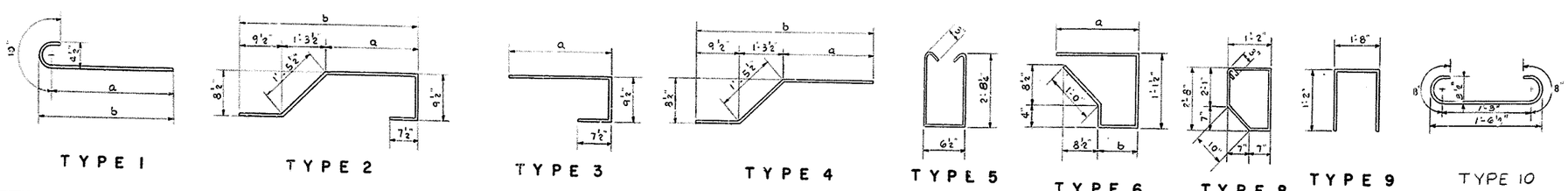
MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S187	Str	6	5	16	5	Slab-Top & Bottom Transverse												
S188		6		16	10	"												
S189		6		17	9	"												
S190		8		17	10	"												
S191		8		18	3	"												
S192		8		18	8	"												
S193		8		19	2	"												
S194		8		19	7	"												
S195		8		20	0	"												
S196		8		20	5	"												
S197		6		20	11	"												
S198		6		21	5	"												
S199		6		21	10	"												
S200		6		22	3	"												
S201		4		22	8	"												
S202		4		23	1	"												
S203		4		23	6	"												
S204		4		24	0	"												
S205		4		24	5	"												
S206		2		24	10	Slab Bottom Transverse												
S207		2		25	3	"												
S208		2		25	8	"												
S209		2		26	1	"												
S210	Str	2		26	6	"												
S211	1	132		25	2	Slab-Top Transverse	24	4	24	6½								
S212		2		39	10	"	39	0	39	2¼								
S213				39	5	"	38	7	38	9½								
S214				38	11	"	38	1	38	3¼								
S215				38	5	"	37	7	37	9½								
S216				38	0	"	37	2	37	4¼								
S217				37	6	"	36	8	36	10½								
S218				37	0	"	36	2	36	4¼								
S219				36	6	"	35	8	35	10½								
S220				36	0	"	35	2	35	4¼								
S221				35	7	"	34	9	34	11½								
S222				35	2	"	34	4	34	6¼								
S223				34	8	"	33	10	34	0½								
S224				34	2	"	33	4	33	6¼								
S225				33	9	"	32	11	33	1½								
S226				33	3	"	32	5	32	7¼								
S227				32	10	"	32	0	32	2½								
S228				32	4	"	31	6	31	8¼								
S229				31	10	"	31	0	31	2½								
S230				31	4	"	30	6	30	8¼								
S231				30	10	"	30	0	30	2½								
S232				30	5	"	29	7	29	9¼								
S233				29	11	"	29	1	29	3½								
S234				29	5	"	28	7	28	9¼								
S235				28	11	"	28	1	28	3½								
S236				28	5	"	27	7	27	9¼								
S237				27	11	"	27	1	27	3½								
S238				27	5	"	26	7	26	9½								
S239				26	11	"	26	1	26	3½								
S240				26	5	"	25	7	25	9½								
S241				26	0	"	25	2	25	4½								
S242				25	6	"	24	8	24	10½								
S243				25	0	"	24	2	24	4½								
S244				24	6	"	23	8	23	10½								
S245				24	0	"	23	2	23	4½								
S246				23	6	"	22	8	22	10½								
S247				23	1	"	22	3	22	5½								
S248	1	2	5	22	7	"	21	9	21	11½								

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S249	1	2	5	22	1	Slab-Top Transverse	21	3	21	5½								
S250				21	7	"	20	9	20	11½								
S251				21	1	"	20	3	20	5½								
S252				20	7	"	19	9	19	11½								
S253				20	1	"	19	3	19	5½								
S254				19	7	"	18	9	18	11½								
S255				19	1	"	18	3	18	5½								
S256				18	7	"	17	9	17	11½								
S257				18	1	"	17	3	17	5½								
S258				17	7	"	16	9	16	11½								
S259				17	1	"	16	3	16	5½								
S260				16	7	"	15	9	15	11½								
S261				16	1	"	15	3	15	5½								
S252				15	7	"	14	9	14	11½								
S263				15	1	"	14	3	14	5½								
S264				14	7	"	13	9	13	11½								
S265				14	1	"	13	3	13	5½								
S266				13	7	"	12	9	12	11½								
S267				13	1	"	12	3	12	5½								
S268				12	7	"	11	9	11	11½								
S269				12	1	"	11	3	11	5½								
S270				11	7	"	10	9	10	11½								
S271				11	1	"	10	3	10	5½								
S272				10	7	"	9	9	9	11½								
S273				10	1	"	9	3	9	5½								
S274				9	7	"	8	9	8	11½								
S275				9	1	"	8	3	8	5½								
S276				8	7	"	7	9	7	11½								
S277				8	1	"	7	3	7	5½								
S278				7	7	"	6	9	6	11½								
S279				7	1	"	6	3	6	5½								
S280				6	6	"	5	8	5	10½								
S281				6	0	"	5	2	5	4½								
S282				5	6	"	4	8	4	10½								
S283				4	11	"	4	1	4	3½								
S284				4	5	"	3	7	3	9½								
S285				3	10	"	3	0	3	2½								
S286		1		3	4	"	2	6	2	8½								
S287	1	11	5	2	11	"	2	1	2	3½								
S288	5	296	4	6	3	Parapet-Vertical												
S289	Str	2		22	2	Parapet-Longitudinal												
S290		8		20	5	"												
S291		140		43	4	Top & Bottom Longitudinal												
S292		152		34	9	"												
S293		144		36	9	"												
S294		4		17	9	Top & Bottom Parapet-Long.												
S295		2		26	9	Top & Bottom-Longitudinal												
S296	Str		4	14	3	"												
S297	3		5	8	5	Median-Transverse	7	2										
S298				8	1	"	6	10										
S299				7	9	"	6	6										
S300				7	5	"	6	2										
S301				7	1	"	5	10										
S302				6	9	"	5	6										
S303				6	5	"	5	2										
S304				6	1	"	4	10										
S305				5	9	"	4	6										
S306				5	5	"	4	2										
S307				5	1	"	3	10										
S308		2		4	9	"	3	6										
S309	3	11		9	1	"	7	8										
S310	2	82	5	11	2	"	7	8	9	9								

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S311	2	90	5	11	4	Median Transverse	7	10	9	11								
S312	2	75		11	5	"	7	11	10	0								
S313	2	75		11	6	"	3	0	10	1								
S314	4	2		5	5	"	3	2	5	3								
S315				5	0	"	2	9	4	10								
S316				4	7	"	2	4	4	5								
S317				4	1	"	1	10	3	11								
S318				3	8	"	1	5	3	6								
S319	4	2	5	3	3	"	1	0	3	1								
S320	Str	12	6	16	6	Haunch-Bottom												
S321	Str	12	6	14	0	"												
S322	6	60	4	5	4	Haunch	2	0½	1	1								
S323	6	42	4	6	0	"	2	6	1	3½								
S324	10	296	4	2	7	Slab - Parapet												
L1	8	4	4	7	6	Lighting Std. Support												
L2	9	3	4	3	10	"												

S P A N 5 S B

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION
S1	Str	4	5	4	2	Slab-Top & Bottom Transverse
S2				4	9	"
S3				5	3	"
S4				5	9	"
S5				6	3	"
S6				6	10	"
S7				7	4	"
S8		4		7	10	"
S9		7		8	4	"
S10		4		8	11	"
S11		6		9	5	"
S12		6		10	0	"
S13		6		10	7	"
S14		9		11	1	"
S15		6		11	8	"
S16				12	2	"
S17				12	9	"
S18				13	4	"
S19				13	10	"
S20				14	4	"
S21		6		14	11	"
S22		4		15	6	"
S23				16	1	"
S24				16	8	"
S25				17	2	"
S26				17	9	"
S27				18	3	"
S28		4		18	10	"
S29		2		19	4	Slab-Bottom Transverse
S30		4		19	11	Slab-Top & Bottom Transverse
S31				20	6	"
S32				21	1	"
S33				21	7	"
S34				22	2	"
S35				22	9	"
S36				23	3	"
S37	Str	4	5	23	10	"



SHEET 43 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT.

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
DECK

STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

DESIGNED BY R.P. CHECKED BY A.M.P. DATE
DETAILED BY R.P. CHECKED BY A.M.P. DATE
TRACED BY S.B. CHECKED BY A.M.P. DATE
REVISED DATE
REVISED DATE
REVISED DATE

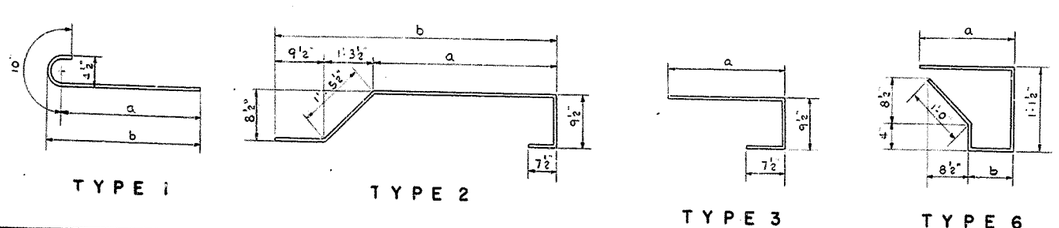
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY				

S P A N 5 SB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S38	Str	4	5	24	4	Slab-Top & Bottom Transverse												
S39				24	11	"												
S40				25	6	"												
S41				26	1	"												
S42				26	8	"												
S43				27	2	"												
S44				27	9	"												
S45				28	4	"												
S46				28	11	"												
S47				29	6	"												
S48				30	1	"												
S49				30	8	"												
S50				31	3	"												
S51				31	10	"												
S52				32	5	"												
S53				32	11	"												
S54				33	6	"												
S55				34	1	"												
S56				34	8	"												
S57		4		35	3	"												
S58		46		35	10	"												
S59		4		36	6	"												
S60				37	1	"												
S61				37	8	"												
S62				38	3	"												
S63				38	10	"												
S64				39	4	"												
S65				40	0	"												
S66				40	7	"												
S67		4		41	3	"												
S68		17		42	0	"												
S69		1		41	5	Slab Bottom Transverse												
S70		2		40	8	Slab Top & Bottom Transverse												
S71				40	0	"												
S72				39	4	"												
S73				38	7	"												
S74				37	10	"												
S75				37	3	"												
S76				36	6	"												
S77				35	10	"												
S78				35	2	"												
S79				34	5	"												
S80				33	9	"												
S81				33	0	"												
S82				32	3	"												
S83				31	7	"												
S84				30	11	"												
S85				30	2	"												
S86				29	6	"												
S87				28	10	"												
S88				28	1	"												
S89				27	8	"												
S90				26	10	"												
S91				26	2	"												
S92				25	5	"												
S93				24	8	"												
S94				24	0	"												
S95				23	3	"												
S96				22	8	"												
S97				21	10	"												
S98				21	2	"												
S99	Str	2	5	20	6	"												

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S100	Str	2	5	19	10	Slab-Top & Bottom Transverse												
S101				19	1	"												
S102				18	5	"												
S103				17	9	"												
S104				17	1	"												
S105				16	4	"												
S106		2		15	8	"												
S107		3		15	11	"												
S108				14	3	"												
S109				13	7	"												
S110				12	10	"												
S111				12	2	"												
S112				11	6	"												
S113				10	10	"												
S114				10	1	"												
S115		3		9	4	"												
S116		2		8	8	"												
S117				8	0	"												
S118				7	4	"												
S119				6	8	"												
S120				6	0	"												
S121				5	4	"												
S122				4	8	"												
S123	Str	2		4	0	"												
S124	1	11	5	16	2	Slab Bottom Transverse	15	4	15	6½								
S125	Str	5	4	5	3	Slab Top & Bottom Longitudinal												
S126		5		8	0	"												
S127		3		11	0	Slab-Top Longitudinal												
S128		3		14	0	"												
S129		3		16	9	"												
S130		2		19	6	"												
S131				22	6	"												
S132				25	6	"												
S133				28	3	"												
S134				31	0	"												
S135				34	0	"												
S136				37	0	"												
S137				40	0	"												
S138		2		43	0	"												
S139		88		45	0	Slab Top & Bottom Longitudinal												
S140		2		8	3	Slab-Bottom Longitudinal												
S141				9	9	"												
S142				11	0	"												
S143				12	6	"												
S144				14	0	"												
S145				15	6	"												
S146		2		17	0	"												
S147		1		21	3	"												
S148				22	9	"												
S149				24	3	"												
S150				25	9	"												
S151				27	3	"												
S152				28	9	"												
S153				30	3	"												
S154				31	6	"												
S155				33	0	"												
S156				34	8	"												
S157				38	9	"												
S158				40	3	"												
S159				41	9	"												
S160				43	3	"												
S161	Str	1	4	6	9	"												

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S162	Str	1	4	7	6	Slab-Bottom Longitudinal												
S163				9	0	"												
S164				13	3	"												
S165				14	9	"												
S166		1		16	3	"												
S167		2		17	9	"												
S168		3		19	3	"												
S169		9		20	9	Slab Bottom Longitudinal												
S170		1		22	3	"												
S171				23	6	"												
S172				24	9	"												
S173				26	3	"												
S174				30	9	"												
S175				32	3	"												
S176				33	9	"												
S177				35	3	"												
S178				36	9	"												
S179				38	3	"												
S180				39	6	"												
S181				41	0	"												
S182				42	6	"												
S183		1	4	44	0	"												
S184		2	6	10	9	Haunch-Bottom												
S185		10	6	14	0	"												
S186		2	6	6	6	"												
S187	Str	10	6	9	0	"												
S188	6	52	4	5	0	Haunch	1	8½	1	1								
S189	3	2	5	5	5	Median	4	2										
S190				6	0	"	4	9										
S191				6	6	"	5	3										
S192				7	0	"	5	9										
S193				7	6	"	6	3										
S194				8	1	"	6	10										
S195				8	7	"	7	4										
S196		2		9	1	"	7	10										
S197	3	10		9	3	"	8	0										
S198	2	202		11	6	"	8	0	10	1								
S199	3	1		8	7	"	7	4										
S200				7	11	"	6	8										
S201				7	3	"	6	0										
S202				6	7	"	5	4										
S203				5	11	"	4	8										
S204	3	1	5	5	3	"	4	0										
S205	6	35	4	4	7	Haunch	1	8½	0	8								
S206	Str	8	4	3	0	At Floor Drains												



DESIGNED BY R.P. CHECKED BY AMP DATE
DETAILED BY R.P. CHECKED BY AMP DATE
TRACED BY S.B. CHECKED BY AMP DATE
REVISED DATE
REVISED DATE
REVISED DATE

SHEET 44 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
DECK

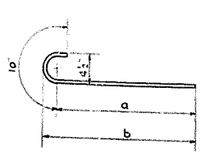
STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

SPAN 6 SB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S 1	Str	6	S	2	0	Slab-Top & Bottom Transverse												
S 2		5		2	7	"												
S 3		1		3	3	Slab-Bottom Transverse												
S 4				3	11	"												
S 5				4	7	"												
S 6				5	3	"												
S 7				5	11	"												
S 8				6	6	"												
S 9		1		7	2	"												
S10		5		7	8	Slab-Top & Bottom Transverse												
S11		1		8	5	Slab-Bottom Transverse												
S12				9	0	"												
S13				9	8	"												
S14				10	3	"												
S15				10	10	"												
S16				11	6	"												
S17				12	2	"												
S18				12	9	"												
S19				13	5	"												
S20				14	1	"												
S21		1		14	8	"												
S22		4		15	4	"												
S23		1		15	11	"												
S24				16	7	"												
S25				17	3	"												
S26				17	10	"												
S27				18	5	"												
S28				19	1	"												
S29		1		19	8	"												
S30		107		20	3	"												
S31		1		20	11	"												
S32				21	6	"												
S33				22	2	"												
S34				22	9	"												
S35				23	5	"												
S36				24	0	"												
S37				24	7	"												
S38				25	3	"												
S39				25	10	"												
S40				26	6	"												
S41				27	1	"												
S42				27	9	"												
S43				28	4	"												
S44				29	0	"												
S45				29	7	"												
S46				30	3	"												
S47				30	11	"												
S48				31	6	"												
S49				32	2	"												
S50				32	9	"												
S51				33	5	"												
S52		1		34	0	"												
S53		103		34	8	"												
S54		1		35	3	"												
S55				35	11	"												
S56				36	6	"												
S57				37	2	"												
S58				37	9	"												
S59				38	5	"												
S60				39	0	"												
S61				39	8	"												
S62	Str	1	S	40	3	"												
S63	Str	1	5	40	10	Slab-Bottom Transverse												
S64				41	6	"												
S65				42	1	"												
S66				42	9	"												
S67				43	4	"												
S68				43	11	"												
S69		1		44	6	"												
S70		2		45	0	"												
S71		1		44	8	"												
S72		1		44	1	"												
S73		1		43	6	"												
S74		1		42	11	"												
S75		2		42	4	Slab-Top & Bottom Transverse												
S76				41	9	"												
S77				41	2	"												
S78				40	7	"												
S79				39	11	"												
S80				39	4	"												
S81				38	9	"												
S82				38	2	"												
S83				37	7	"												
S84				36	11	"												
S85				36	4	"												
S86				35	9	"												
S87				35	2	"												
S88				34	7	"												
S89				34	0	"												
S90				33	5	"												
S91		2		32	10	"												
S92		3		32	3	"												
S93				31	8	"												
S94				31	1	"												
S95				30	6	"												
S96				29	11	"												
S97				29	4	"												
S98		3		28	9	"												
S99		2		28	1	"												
S100				27	6	"												
S101				26	11	"												
S102				26	4	"												
S103				25	9	"												
S104				25	2	"												
S105				24	7	"												
S106				24	0	"												
S107				23	5	"												
S108				22	10	"												
S109				22	2	"												
S110				21	7	"												
S111				21	0	"												
S112				20	5	"												
S113				19	10	"												
S114				19	3	"												
S115				18	8	"												
S116				18	1	"												
S117				17	6	"												
S118				16	11	"												
S119				16	4	"												
S120				15	9	"												
S121				15	2	"												
S122				14	7	"												
S123				14	0	"												
S124	Str	2	S	13	4	"												
S125	Str	2	S	12	9	Slab-Top & Bottom Transverse												
S126				12	2	"												
S127				11	7	"												
S128				11	0	"												
S129				10	5	"												
S130				9	10	"												
S131				9	3	"												
S132				8	8	"												
S133				8	1	"												
S134				7	6	"												
S135				6	11	"												
S136				6	4	"												
S137				5	9	"												
S138				5	2	"												
S139				4	7	"												
S140				4	1	"												
S141		2		3	6	"												
S142		1	S	3	0	Slab Bottom Transverse												
S143		14	4	43	3	Slab Top & Bottom Longitudinal												
S144		90	4	41	9	"												
S145		104	4	41	3	"												
S146		12	4	18	3	Slab Top & Bottom & Parapet Long.												
S147		6	4	20	4	Parapet-Longitudinal												
S148		12	6	9	0	Haunch-Bottom												
S149	Str	12	6	9	6	"												
S150	1	1	S	3	3	Slab-Top Transverse	2	5	2	7½								
S151				3	11	"	3	1	3	3½								
S152				4	7	"	3	9	3	11½								
S153				5	3	"	4	5	4	7½								
S154				5	11	"	5	1	5	3½								
S155				6	7	"	5	9	5	11½								
S156				7	2	"	6	4	6	6½								
S157				7	10	"	7	0	7	2½								
S158				8	5	"	7	7	7	8½								
S159				9	1	"	8	3	8	5½								
S160				9	8	"	8	10	9	0½								
S161				10	4	"	9	6	9	8½								
S162				10	11	"	10	1	10	3½								
S163				11	6	"	10	8	10	10½								
S164				12	2	"	11	4	11	6½								
S165				12	10	"	12	0	12	2½								
S166				13	5	"	12	7	12	8½								
S167				14	1	"	13	3	13	5½								
S168				14	9	"	13	11	14	1½								
S169				15	4	"	14	6	14	8½								
S170				16	0	"	15	2	15	4½								
S171				16	7	"	15	9	15	11½								
S172				17	3	"	16	5	16	7½								
S173				17	11	"	17	1	17	3½								
S174				18	6	"	17	9	17	10½								
S175				19	1	"	18	3	18	5½								
S176				19	9	"	18	11	19	1½								
S177				20	4	"	19	6	19	8½								
S178				20	11	"	20	1	20	3½								
S179				21	7	"	20	9	20	11½								
S180				22	2	"	21	4	21	6½								
S181				22	10	"	22	0	22	2½								
S182				23	5	"	22	7	22	9½								
S183				24	1	"	23	3	23	5½								
S184				24	8	"	23	10	24	0½								
S185				25	3	"	24	5	24	7½								
S186	1	1	5	25	11	"	25	1	25	3½								



TYPE 1

DESIGNED BY R.P. CHECKED BY A.M.P. DATE
DETAILED BY R.P. CHECKED BY A.M.P. DATE
TRACED BY S.B. CHECKED BY A.M.P. DATE
REVISED DATE
REVISED DATE
REVISED DATE

SHEET 48 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
DECK

STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

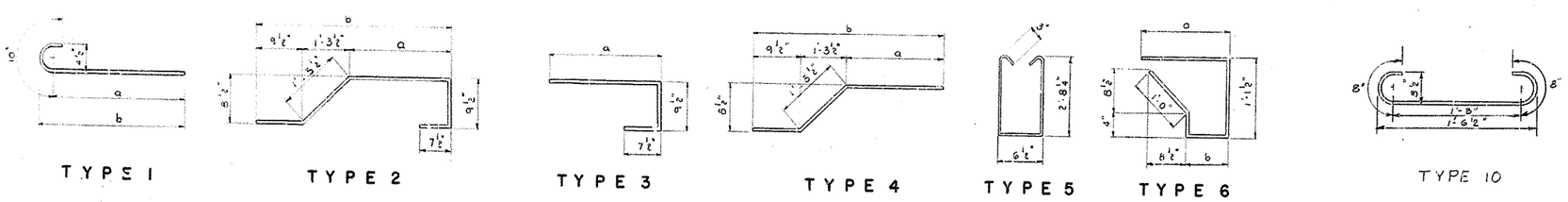
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

SPAN 6 SB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S187	1	1	5	26	6	Slab-Top Transverse	25	8	25	10½								
S188				27	2	"	26	4	26	6¾								
S189				27	9	"	26	11	27	1½								
S190				28	5	"	27	7	27	9½								
S191				28	0	"	28	2	28	4½								
S192				29	8	"	28	10	29	0½								
S193				30	3	"	29	5	29	7½								
S194				30	11	"	30	1	30	3½								
S195				31	7	"	30	9	30	11½								
S196				32	2	"	31	4	31	6½								
S197				32	10	"	32	0	32	2½								
S198				33	5	"	32	7	32	9½								
S199				34	1	"	33	3	33	5½								
S200				34	8	"	33	10	34	0½								
S201				35	4	"	34	6	34	8½								
S202				35	11	"	35	1	35	3½								
S203				36	7	"	35	9	35	11½								
S204				37	2	"	36	4	36	6½								
S205				37	10	"	37	0	37	2½								
S208				38	5	"	37	7	37	9½								
S207				39	1	"	38	3	38	5½								
S208				39	8	"	38	10	39	0½								
S209				40	4	"	39	6	39	8½								
S210				40	11	"	40	1	40	3½								
S211				41	6	"	40	8	40	10½								
S212				42	2	"	41	4	41	6½								
S213				42	9	"	41	11	42	1½								
S214				43	5	"	42	7	42	9½								
S215		1		44	0	"	43	2	43	4½								
S216	1	105	5	44	8	"	43	10	44	0½								
S217	5	176	4	6	3	Parapet-Vertical												
S218	2	167	5	11	8	Median	8	2	10	3								
S219	3	1		9	5	"	8	2										
S220				9	3	"	8	0										
S221				9	1	"	7	10										
S222				8	9	"	7	6										
S223				8	2	"	6	11										
S224				7	7	"	6	4										
S225				7	0	"	5	9										
S226				6	6	"	5	3										
S227				5	11	"	4	8										
S228				5	4	"	4	1										
S229				4	9	"	3	6										
S230	3			4	3	"	3	0										
S231	4			5	9	"	3	6	5	7								
S232				5	2	"	2	11	5	0								
S233				4	7	"	2	4	4	5								
S234				4	0	"	1	9	3	10								
S235	4	1	5	3	5	"	1	2	3	3								
9236	6	84	4	4	8	Haunch	1	8½	0	9								
S237	10	176	4	2	7	Slab - Parapet												

SPAN 1 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S 1	Str	3	5	44	9	Slab-Bottom Transverse												
S 2				44	4	"												
S 3				43	10	"												
S 4				43	5	"												
S 5				43	0	"												
S 6				42	6	"												
S 7				42	1	"												
S 8		3		41	8	"												
S 9		116		41	3	"												
S10		3		40	10	"												
S11		6		40	6	"												
S12				40	0	"												
S13				39	7	"												
S14				39	2	"												
S15				38	9	"												
S16				38	4	"												
S17				37	11	"												
S18		6		37	6	"												
S19		3		37	1	"												
S20				36	3	"												
S21				36	3	"												
S22				35	11	"												
S23				35	6	"												
S24				35	2	"												
S25				34	9	"												
S26				34	4	"												
S27				33	11	"												
S28				33	7	"												
S29				33	2	"												
S30				32	9	"												
S31				32	4	"												
S32				31	11	"												
S33				31	6	"												
S34				31	2	"												
S35				30	9	"												
S36				30	5	"												
S37				30	0	"												
S38				29	8	"												
S39				29	3	"												
S40				28	11	"												
S41				28	6	"												
S42				28	2	"												
S43				27	9	"												
S44				27	5	"												
S45				27	0	"												
S46				26	8	"												
S47				26	3	"												
S48				25	11	"												
S49				25	7	"												
S50				25	3	"												
S51				24	10	"												
S52				24	7	"												
S53				24	3	"												
S54				23	10	"												
S55				23	6	"												
S56				23	2	"												
S57				22	9	"												
S58				22	5	"												
S59				22	1	"												
S60				21	9	"												
S61				21	5	"												
S62	Str	3	5	21	1	"												
S63	Str	3	5	20	9	Slab-Bottom Transverse												
S64				20	5	"												
S65				20	1	"												
S66				19	9	"												
S67				19	5	"												
S68				19	1	"												
S69				18	9	"												
S70				18	6	"												
S71				18	2	"												
S72				17	10	"												
S73				17	6	"												
S74				17	3	"												
S75				16	10	"												
S76				16	7	"												
S77				16	4	"												
S78				16	0	"												
S79				15	8	"												
S80				15	5	"												
S81				15	1	"												
S82				14	9	"												
S83				14	6	"												
S84				14	2	"												
S85				13	10	"												
S86				13	7	"												
S87				13	3	"												
S88				13	0	"												
S89				12	8	"												
S90				12	4	"												
S91				12	1	"												
S92				11	10	"												
S93				11	6	"												
S94		3		11	3	"												
S95		4		11	0	"												
S96		141		10	8	"												
S97		4		10	4	"												
S98				9	11	"												
S99				9	7	"												
S100				9	3	"												
S101				8	10	"												
S102				8	6	"												
S103				8	2	"												
S104				7	10	"												
S105				7	6	"												
S106				7	2	"												
S107				6	10	"												
S108				6	6	"												
S109				6	2	"												
S110				5	10	"												
S111				5	6	"												
S112				5	2	"												
S113				4	10	"												
S114				4	7	"												
S115				4	3	"												
S116		6		3	11	Slab Top & Bottom Transverse												
S117		2		45	0	Slab-Bottom Transverse												
S118				44	10	"												
S119				44	6	"												
S120				44	2	"												
S121				43	10	"												
S122				43	6	"												
S123				43	2	"												
S124	Str	2	5	42	10	"												



DESIGNED BY R.P. CHECKED BY A.M.P. DATE
DETAILED BY R.P. CHECKED BY A.M.P. DATE
TRACED BY S.B. CHECKED BY A.M.P. DATE
REVISED DATE
REVISED DATE
REVISED DATE

SHEET 46 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
DECK

STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

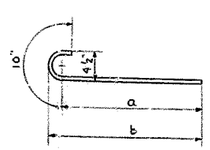
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

S P A N 1 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S125	Str	2	S	42	5	Slab-Bottom Transverse												
S126	↑	↑	↑	42	1	"												
S127		↓		41	9	"												
S128				41	5	"												
S129		2		41	1	"												
S130		4		40	9	Slab Top & Bottom Transverse												
S131		↑		40	4	"												
S132				40	0	"												
S133				39	8	"												
S134				39	4	"												
S135				38	11	"												
S136				38	7	"												
S137				38	3	"												
S138				37	11	"												
S139				37	6	"												
S140				37	2	"												
S141				36	10	"												
S142				36	5	"												
S143				36	1	"												
S144				35	9	"												
S145				35	4	"												
S146				35	0	"												
S147				34	7	"												
S148				34	3	"												
S149				33	10	"												
S150				33	6	"												
S151				33	2	"												
S152				32	10	"												
S153				32	5	"												
S154				32	1	"												
S155				31	9	"												
S156				31	4	"												
S157				31	0	"												
S158				30	7	"												
S159				30	3	"												
S160				29	10	"												
S161				29	6	"												
S162				29	1	"												
S163				28	8	"												
S164				28	4	"												
S165				28	0	"												
S166				27	7	"												
S167				27	3	"												
S168				26	10	"												
S169				26	6	"												
S170				26	1	"												
S171				25	9	"												
S172				25	4	"												
S173				25	0	"												
S174				24	7	"												
S175				24	3	"												
S176				23	10	"												
S177				23	5	"												
S178				23	0	"												
S179				22	8	"												
S180				22	3	"												
S181				21	11	"												
S182				21	6	"												
S183				21	1	"												
S184				20	8	"												
S185				20	4	"												
S186	Str	4	5	19	11	"												

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S187	Str	4	5	19	6	Slab-Top & Bottom Transverse												
S188	↑	↑	↑	19	1	"												
S189				18	9	"												
S190				18	4	"												
S191				17	11	"												
S192				17	6	"												
S193				17	2	"												
S194				16	9	"												
S195				16	4	"												
S196				15	11	"												
S197				15	6	"												
S198				15	1	"												
S199				14	9	"												
S200				14	4	"												
S201				13	11	"												
S202				13	6	"												
S203				13	2	"												
S204				12	9	"												
S205				12	5	"												
S206				11	11	"												
S207				11	6	"												
S208				11	1	"												
S209				10	8	"												
S210				10	3	"												
S211				9	10	"												
S212				9	5	"												
S213				9	0	"												
S214				8	7	"												
S215				8	2	"												
S216				7	9	"												
S217				7	4	"												
S218				6	11	"												
S219				6	6	"												
S220				6	1	"												
S221				5	8	"												
S222				5	3	"												
S223				4	10	"												
S224				4	5	"												
S225				4	0	"												
S226		4		3	7	"												
S227		8		3	2	"												
S228		6	5	2	9	Slab-Bottom Transverse												
S229		94	4	39	2	Slab-Top & Bottom Longitudinal												
S230		66		40	4	"												
S231		79		41	7	"												
S232		64		42	9	"												
S233		61		44	0	"												
S234		106		37	6	"												
S235		7		34	0	"												
S236		1		27	0	Slab-Bottom Longitudinal												
S237		2		30	0	Slab-Top & Bottom Longitudinal												
S238		6		23	2	Slab-Top, Bottom & Parapet Long.												
S239		5		20	9	Slab-Bottom & Parapet Long.												
S240		2		24	0	Slab-Top-Longitudinal												
S241		4		13	0	Slab-Top & Bottom Longitudinal												
S242		3		12	0	"												
S243		3		8	0	"												
S244		14	4	23	8	Parapet Longitudinal												
S245		2	6	38	6	Slab-Haunch Bottom												
S246		4	6	28	0	"												
S247	↓	4	6	20	6	"												
S248	Str	2	6	11	0	"												

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S249	Str	10	6	16	0	Slab-Haunch Bottom												
S250	1	143	5	45	0	Slab-Top Transverse	44	2	44	4½								
S251	↑	3	↑	44	6	"	43	8	43	10½								
S252		↑		44	1	"	43	3	43	5½								
S253				43	8	"	42	10	43	0½								
S254				43	2	"	42	4	42	6½								
S255				42	9	"	41	11	42	1½								
S256				42	4	"	41	6	41	8½								
S257				41	11	"	41	1	41	3½								
S258				41	6	"	40	8	40	10½								
S259				41	2	"	40	4	40	6½								
S260				40	8	"	39	10	40	0½								
S261				40	3	"	39	5	39	7½								
S262				39	10	"	39	0	39	2½								
S263				39	5	"	38	7	38	9½								
S264				39	0	"	38	2	38	4½								
S265				38	7	"	37	9	37	11½								
S266				38	2	"	37	4	37	6½								
S267				37	9	"	36	11	37	1½								
S268				37	4	"	36	6	36	8½								
S269				36	11	"	36	1	36	3½								
S270				36	7	"	35	9	35	11½								
S271				36	2	"	35	4	35	6½								
S272				35	10	"	35	0	35	2½								
S273				35	5	"	34	7	34	9½								
S274				35	0	"	34	2	34	4½								
S275				34	7	"	33	9	33	11½								
S276				34	3	"	33	5	33	7½								
S277				33	10	"	33	0	33	2½								
S278				33	5	"	32	7	32	9½								
S279				33	0	"	32	2	32	4½								
S280				32	7	"	31	9	31	11½								
S281				32	2	"	31	4	31	6½								
S282				31	10	"	31	0	31	2½								
S283				31	5	"	30	7	30	9½								
S284				31	1	"	30	3	30	5½								
S285				30	8	"	29	10	30	0½								
S286				30	4	"	29	6	29	8½								
S287				29	11	"	29	1	29	3½								
S288				29	7	"	28	9	28	11½								
S289				29	2	"	28	4	28	6½								
S290				28	10	"	28	0	28	2½								
S291				28	5	"	27	7	27	9½								
S292				28	1	"	27	3	27	5½								
S293				27	8	"	26	10	27	0½								
S294				27	4	"	26	6	26	8½								
S295				26	11	"	26	1	26	3½								
S296				26	7	"	25	9	25	11½								
S297				26	3	"	25	5	25	7½								
S298				25	11	"	25	1	25	3½								
S299				25	6	"	24	8	24	10½								
S300				25	3	"	24	5	24	7½								
S301				24	11	"	24	1	24	3½								
S302				24	6	"	23	8	23	10½								
S303				24	2	"	23	4	23	6½								
S304				23	10	"	23	0	23	2½								
S305				23	5	"	22	7	22	9½								
S306				23	1	"	22	3	22	5½								
S307				22	9	"	21	11	22	1½								
S308				22	5	"	21	7	21	9½								
S309	↓	↓	↓	22	1	"	21	3	21	5½								
S310	1	3	5	21	9	"	20	11	21	1½								



TYPE I

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SHEET 47 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
DECK

STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

S P A N 1 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S311	1	3	5	21	5	Slab-Top Transverse	20	7	20	9¾								
S312	↑	↑	↑	21	1	"	20	3	20	5¾								
S313				20	9	"	19	11	20	1¾								
S314				20	5	"	19	7	19	9¾								
S315				20	1	"	19	3	19	5¾								
S316				19	9	"	18	11	19	1¾								
S317				19	5	"	18	7	18	9¾								
S318				19	2	"	18	4	18	6¾								
S319				18	10	"	18	0	18	2¾								
S320				18	6	"	17	8	17	10¾								
S321				18	2	"	17	4	17	6¾								
S322				17	11	"	17	1	17	3¾								
S323				17	6	"	16	8	16	10¾								
S324				17	3	"	16	5	16	7¾								
S325				17	0	"	16	2	16	4¾								
S326				16	8	"	15	10	16	0¾								
S327				16	4	"	15	6	15	8¾								
S328				16	1	"	15	3	15	5¾								
S329				15	9	"	14	11	15	1¾								
S330				15	5	"	14	7	14	9¾								
S331				15	2	"	14	4	14	6¾								
S332				14	10	"	14	0	14	2¾								
S333				14	6	"	13	8	13	10¾								
S334				14	3	"	13	5	13	7¾								
S335				13	11	"	13	1	13	3¾								
S336				13	8	"	12	10	13	0¾								
S337				13	4	"	12	6	12	8¾								
S338				13	0	"	12	2	12	4¾								
S339				12	9	"	11	11	12	1¾								
S340				12	6	"	11	8	11	10¾								
S341		↓		12	2	"	11	4	11	6¾								
S342		3		11	11	"	11	1	11	3¾								
S343		4		11	8	"	10	10	11	0¾								
S344		↑		11	4	"	10	6	10	8¾								
S345				11	0	"	10	2	10	4¾								
S346				10	7	"	9	9	9	11¾								
S347				10	3	"	9	5	9	7¾								
S348				9	11	"	9	1	9	3¾								
S349			↑	9	6	"	8	8	8	10¾								
S350				9	2	"	8	4	8	6¾								
S351				8	10	"	8	0	8	2¾								
S352				8	6	"	7	8	7	10¾								
S353				8	2	"	7	4	7	6¾								
S354				7	10	"	7	0	7	2¾								
S355				7	8	"	6	8	6	10¾								
S356				7	2	"	6	4	6	6¾								
S357				8	10	"	6	0	6	2¾								
S358				6	6	"	5	8	5	10¾								
S359				6	2	"	5	4	5	6¾								
S360				5	10	"	5	0	5	2¾								
S361				5	6	"	4	8	4	10¾								
S362				5	3	"	4	5	4	7¾								
S363	↓	↓	↓	4	11	"	4	1	4	3¾								
S364	1	4	5	4	7	"	3	9	2	11¾								
S365	5	509	4	6	3	Parapet-Vertical												
S366	2	112	5	9	1	Median-Transverse	5	7	7	8								
S387	2	109	5	9	3	"	5	9	7	10								
S368	2	92	5	9	5	"	5	11	8	0								
S369	3	7	5	7	2	"	5	11										
S370	3	2	5	6	11	"	5	8										
S371	3	2	5	6	6	"	5	3										
S372	3	2	5	6	1	"	4	10										

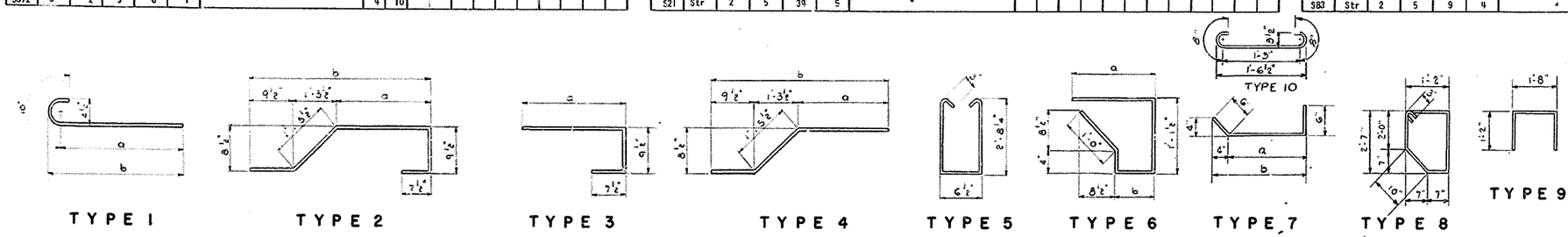
MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S373	3	2	5	5	8	Median Transverse	4	5										
S374	↑	2	↑	5	3	"	4	0										
S375		2		4	10	"	3	7										
S376		2		4	5	"	3	2										
S377	3	5		4	0	"	2	9										
S378	4	2		7	3	"	5	0	7	1								
S379	↑	↑		6	11	"	4	8	6	9								
S380				6	8	"	4	5	6	6								
S381				6	4	"	4	1	6	2								
S382				6	1	"	3	10	5	11								
S383				5	9	"	3	6	5	7								
S384				5	5	"	3	2	5	3								
S385				5	2	"	2	11	5	0								
S386				4	10	"	2	7	4	8								
S387				4	7	"	2	4	4	5								
S388				4	3	"	2	0	4	1								
S389				4	0	"	1	9	3	10								
S390	↑	↑	↑	3	8	"	1	5	3	6								
S391	4	2	5	3	5	"	1	2	3	3								
S392	6	51	4	6	0	Haunch	2	6	1	3½								
S393	6	82	4	5	4	"	2	0½	1	1								
S394	Str	1	6	9	6	"												
S395	↑	2	6	6	6	"												
S396		1	6	4	6	"												
S397		6	4	37	8	"												
S398	↑	6	4	18	8	End Diaph.-Longitudinal												
S399	Str	6	4	17	8	"												
S400	7	92	4	7	9	End Diaph.-Vertical	6	10	7	2								
S401	7	6	4	7	2	"	6	3	6	7								
S402	10	509	4	2	7	Slab-Parapet												
L1	8	4	4	7	6	Lighting Std. Support												
L2	9	3	4	3	10	"												

S P A N 2 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S 1	Str	2	5	43	1	Slab-Bottom Transverse												
S 2	↑	↑	↑	42	8	"												
S 3				42	2	"												
S 4				41	9	"												
S 5				41	4	"												
S 6				40	11	"												
S 7				40	5	"												
S 8				40	0	"												
S 9				39	7	"												
S10				39	2	"												
S11				38	8	"												
S12				38	3	"												
S13				37	10	"												
S14				37	5	"												
S15				37	0	"												
S16				36	7	"												
S17				36	2	"												
S18				35	8	"												
S19				35	3	"												
S20	↓	↓	↓	34	10	"												
S21	Str	2	5	34	5	"												

S P A N 2 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S22	Str	2	5	34	0	Slab-Bottom Transverse												
S23	↑	50	↑	33	7	"												
S24		2		33	2	"												
S25		2		32	8	"												
S26		2		32	3	"												
S27		2		31	10	"												
S28		2		31	5	"												
S29		4		31	0	"												
S30		↑		30	7	"												
S31				30	2	"												
S32				29	9	"												
S33				29	4	"												
S34				28	11	"												
S35				28	6	"												
S36		↑		28	1	"												
S37		4		27	8	"												
S38		2		27	3	"												
S39		↑		26	10	"												
S40				26	5	"												
S41				26	0	"												
S42				25	7	"												
S43				25	2	"												
S44				24	9	"												
S45				24	4	"												
S46				23	11	"												
S47				23	6	"												
S48				23	1	"												
S49				22	8	"												
S50				22	4	"												
S51				21	11	"												
S52				21	6	"												
S53				21	1	"												
S54				20	8	"												
S55				20	3	"												
S56		↑		19	10	"												
S57		2		19	5	"												
S58		68		19	1	"												
S59		2		18	8	"												
S60		↑		18	4	"												
S61				17	11	"												
S62				17	6	"												
S63				17	1	"												
S64				16	8	"												
S65				16	4	"												
S66				15	11	"												
S67				15	6	"												
S68				15	1	"												
S69				14	8	"												
S70				14	4	"												
S71				13	11	"												
S72				13	6	"												
S73				13	2	"												
S74				12	10	"												
S75				12	5	"												
S76				12	0	"												
S77				11	7	"												
S78				11	3	"												
S79				10	11	"												
S80				10	6	"												
S81				10	2	"												
S82	↓	↓	↓	9	9	"												
S83	Str	2	5	9	4	"												



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REVISED DATE

SHEET 48 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
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STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

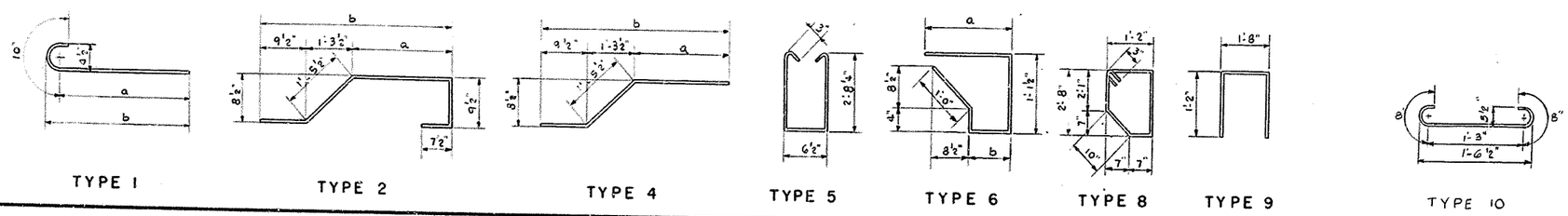
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

S P A N 2 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S 84	Str	2	5	9	0	Slab-Bottom Transverse												
S 85				8	7	"												
S 86				8	2	"												
S 87				7	10	"												
S 88				7	8	"												
S 89				7	1	"												
S 90				6	9	"												
S 91				6	4	"												
S 92				5	11	"												
S 93				5	7	"												
S 94				5	2	"												
S 95				4	10	"												
S 96				4	5	"												
S 97				4	1	"												
S 98				3	8	"												
S 99	Str	2	5	3	4	"												
S100						Not Used												
S101						"												
S102	1	62	5	45	0	Slab-Top Transverse	44	2	44	4½								
S103		2		44	7	"	43	9	43	11½								
S104				44	2	"	43	4	43	6½								
S105				43	9	"	42	11	43	1½								
S106				43	4	"	42	6	42	8½								
S107				42	10	"	42	0	42	2½								
S108				42	5	"	41	7	41	9½								
S109				42	0	"	41	2	41	4½								
S110				41	7	"	40	9	40	11½								
S111				41	1	"	40	3	40	5½								
S112				40	8	"	39	10	40	0½								
S113				40	3	"	39	5	39	7½								
S114				39	10	"	39	0	39	2½								
S115				39	4	"	38	6	38	8½								
S116				38	11	"	38	1	38	3½								
S117				38	6	"	37	8	37	10½								
S118				38	1	"	37	3	37	5½								
S119				37	8	"	36	10	37	0½								
S120				37	3	"	36	5	36	7½								
S121				36	10	"	36	0	36	2½								
S122				36	4	"	35	6	35	8½								
S123				35	11	"	35	1	35	3½								
S124				35	6	"	34	8	34	10½								
S125				35	1	"	34	3	34	5½								
S126				34	8	"	33	10	34	0½								
S127				34	3	"	33	5	33	7½								
S128				33	10	"	33	0	33	2½								
S129				33	4	"	32	6	32	8½								
S130				32	11	"	32	1	32	3½								
S131				32	6	"	31	8	31	10½								
S132				32	1	"	31	3	31	5½								
S133				31	8	"	30	10	31	0½								
S134				31	3	"	30	5	30	7½								
S135				30	10	"	30	0	30	2½								
S136				30	5	"	29	7	29	9½								
S137				30	0	"	29	2	29	4½								
S138				29	7	"	28	9	28	11½								
S139				29	2	"	28	4	28	6½								
S140				28	9	"	27	11	28	1½								
S141				28	4	"	27	6	27	8½								
S142				27	11	"	27	1	27	3½								
S143				27	6	"	26	8	28	10½								
S144				27	1	"	26	3	28	5½								
S145	1	2	5	26	8	"	25	10	26	0½								

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S146	1	2	5	26	3	Slab-Top Transverse	25	5	25	7½								
S147				25	10	"	25	0	25	2½								
S148				25	5	"	24	7	24	9½								
S149				25	0	"	24	2	24	4½								
S150				24	7	"	23	9	23	11½								
S151				24	2	"	23	4	23	6½								
S152				23	9	"	22	11	23	1½								
S153				23	4	"	22	6	22	8½								
S154				23	0	"	22	2	22	4½								
S155				22	7	"	21	9	21	11½								
S156				22	2	"	21	4	21	6½								
S157				21	9	"	20	11	21	1½								
S158				21	4	"	20	6	20	8½								
S159				20	11	"	20	1	20	3½								
S160				20	6	"	19	8	19	10½								
S161				20	1	"	19	3	19	5½								
S162				19	9	"	18	11	19	1½								
S163				19	4	"	18	5	18	8½								
S164				19	0	"	18	2	18	4½								
S165				18	7	"	17	9	17	11½								
S166				18	2	"	17	4	17	6½								
S167				17	9	"	16	11	17	1½								
S168				17	4	"	16	6	16	8½								
S169				17	0	"	16	2	16	4½								
S170				16	7	"	15	9	15	11½								
S171				16	2	"	15	4	15	6½								
S172				15	9	"	14	11	15	1½								
S173				15	4	"	14	6	14	8½								
S174				15	0	"	14	2	14	4½								
S175				14	7	"	13	9	13	11½								
S176				14	2	"	13	4	13	6½								
S177				13	10	"	13	0	13	2½								
S178				13	6	"	12	8	12	10½								
S179				13	1	"	12	3	12	5½								
S180				12	8	"	11	10	12	0½								
S181				12	3	"	11	5	11	7½								
S182				11	11	"	11	1	11	3½								
S183				11	7	"	10	9	10	11½								
S184				11	2	"	10	4	10	6½								
S185				10	10	"	10	0	10	2½								
S186				10	5	"	9	7	9	9½								
S187				10	0	"	9	2	9	4½								
S188				9	8	"	8	10	9	0½								
S189				9	3	"	8	5	8	7½								
S190				8	10	"	8	0	8	2½								
S191				8	6	"	7	8	7	10½								
S192				8	2	"	7	4	7	6½								
S193				7	9	"	6	11	7	1½								
S194				7	5	"	6	7	6	9½								
S195				7	0	"	6	2	6	4½								
S196				6	7	"	5	9	5	11½								
S197				6	3	"	5	5	5	7½								
S198				5	10	"	5	0	5	2½								
S199				5	6	"	4	8	4	10½								
S200				5	1	"	4	3	4	5½								
S201				4	9	"	3	11	4	1½								
S202				4	4	"	3	6	3	8½								
S203	1	2	5	4	0	"	3	2	3	4½								
S204						Not Used												
S205						"												
S208	Str	45	4	38	6	Slab-Top & Bottom Longitudinal												
S207	Str	20	4	16	0	"												

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S203	Str	11	4	36	9	Slab Top Longitudinal												
S205		5		34	3	"												
S210				32	0	"												
S211				29	6	"												
S212				27	0	"												
S213		5		24	6	"												
S214		1		22	0	"												
S215		5		35	0	Slab Bottom Longitudinal												
S216		5		33	6	"												
S217		6		32	0	"												
S218		38		30	6	"												
S219		22		29	3	Slab Top & Bottom Longitudinal												
S220		6		28	0	Slab Bottom Longitudinal												
S221		6		26	6	"												
S222		6		25	3	"												
S223		8		23	9	Slab Bottom & Parapet Long.												
S224		6		22	3	Slab Bottom Longitudinal												
S225		2		20	9	"												
S226		16		43	0	Slab Top & Bottom Longitudinal												
S227		1		33	6	Slab-Top Longitudinal												
S228				31	3	"												
S229				29	3	"												
S230				28	0	"												
S231		1		26	0	"												
S232		3		23	2	Slab-Top & Parapet Longitudinal												
S233		1		21	5	Slab-Top Longitudinal												
S234	St-	10		20	1	Slab-Top Bottom Parap. Long.												
S235	5	260	4	6	3	Slab-Parapet-Vertical												
S236	2	45	5	9	6	Median-Transverse	6	0	8	1								
S237	4	2		5	11	"	3	8	5	9								
S238				5	5	"	3	2	5	3								
S239				5	0	"	2	9	4	10								
S240				4	7	"	2	4	4	5								
S241				4	1	"	1	10	3	11								
S242				3	8	"	1	5	3	6								
S243	4	2	5	3	3	"	1	0	3	1								
S244	Str	12	6	7	0	Haunch-Bottom												
S245	"	3	6	19	6	"												
S246	Str	10	6	16	6	"												
S247	6	13	4	7	7	Haunch	3	3	2	1½								
S248	6	55	4	5	7	"	2	3½	1	1								
S249	6	36	4	4	6	"	1	8½	0	7								
S250	Str.	8	4	3	0	At Floor Drain												
S251	10	260	4	2	7	Slab-Parapet												
L1	9	4	4	7	6	Lighting Std. Support												
L2	9	3	4	3	10	"												



TYPE 1 TYPE 2 TYPE 4 TYPE 5 TYPE 6 TYPE 8 TYPE 9 TYPE 10

DESIGNED BY R.P. CHECKED BY A.M.P. DATE
DETAILED BY R.P. CHECKED BY A.M.P. DATE
TRACED BY S.B. CHECKED BY A.M.P. DATE
REVISED DATE
REVISED DATE
REVISED DATE

SHEET 49 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
DECK

STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

SPAN 3 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S 1	Str	141	5	33	6	Slab-Bottom Transverse												
S 2		141	5	19	3	"												
S 3		102	4	32	6	Slab-Top & Bottom Longitudinal												
S 4		100	4	33	6	"												
S 5		4	4	20	9	Slab-Parapet Longitudinal												
S 6	Str	2	4	19	9	"												
S 7	1	141	5	45	5	Slab-Top Transverse	44	7	44	9½								
S 8	5	141	4	6	3	Slab-Parapet-Vertical												
S 9	2	141	5	9	7	Median-Transverse	6	1	8	2								
S10	Str	29	6	7	0	Haunch-Bottom												
S11	6	60	4	4	6	Haunch	1	8½	0	7								
S12	10	141	4	2	7	Slab-Parapet												

SPAN 4 NB

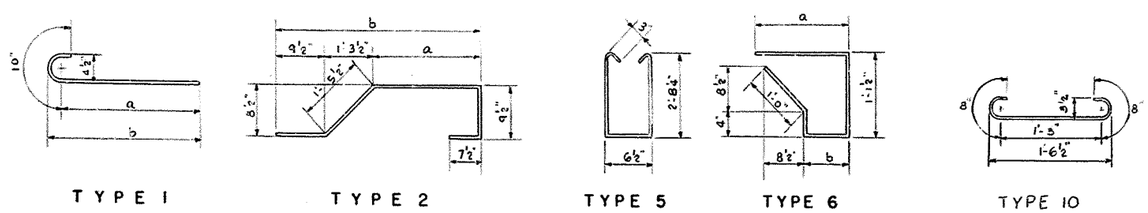
MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S 1	Str	76	5	33	6	Slab-Bottom Transverse												
S 2	"	91	5	18	3	"												
S 3	1	82	5	45	5	Slab-Top Transverse	44	7	44	9½								
S 4	5	148	4	6	3	Slab-Parapet-Vertical												
S 5	2	76	5	9	7	Median-Transverse	6	1	8	2								
S 6	Str	1	4	44	9	Slab-Bottom Transverse												
S 7				44	2	"												
S 8				43	6	"												
S 9				42	10	"												
S10				42	3	"												
S11				41	9	"												
S12				41	0	"												
S13				40	4	"												
S14				39	9	"												
S15				38	1	"												
S16				38	6	"												
S17				37	10	"												
S18				37	3	"												
S19				36	7	"												
S20				36	0	"												
S21				35	4	"												
S22				34	9	"												
S23				34	1	"												
S24				33	5	"												
S25				32	9	"												
S26		1		32	1	"												
S27		2		31	5	"												
S28		2		30	9	"												
S29		2		30	2	"												
S30		2		29	7	"												
S31		2		29	0	"												
S32		1		28	5	"												
S33				27	9	"												
S34				27	2	"												
S35				26	6	"												
S36				25	10	"												
S37				25	2	"												
S38				24	7	"												
S39				23	11	"												
S40				23	3	"												
S41				22	7	"												
S42				22	0	"												
S43	Str	1	5	21	4	"												

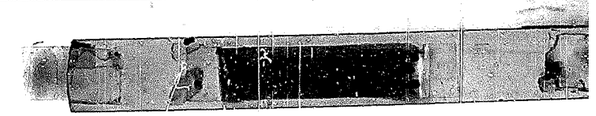
SPAN 4 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S 44	Str	1	5	20	9	Slab-Bottom Transverse												
S 45				20	1	"												
S 46				19	6	"												
S 47				18	10	"												
S 48				18	3	"												
S 49				17	7	"												
S 50				17	0	"												
S 51				16	4	"												
S 52				15	9	"												
S 53				15	1	"												
S 54				14	6	"												
S 55				13	10	"												
S 56				13	2	"												
S 57				12	6	"												
S 58				11	11	"												
S 59				11	3	"												
S 60				10	8	"												
S 61				10	0	"												
S 62				9	5	"												
S 63				8	10	"												
S 64				8	3	"												
S 65				7	7	"												
S 66				7	0	"												
S 67		1		6	4	"												
S 68		4		5	9	Slab Top & Bottom Transverse												
S 69		1		5	2	Slab Bottom Transverse												
S 70				4	5	"												
S 71				3	10	"												
S 72				3	3	"												
S 73			5	2	8	"												
S 74			4	35	4	Slab-Top Longitudinal												
S 75				36	4	"												
S 76				37	2	"												
S 77				38	0	"												
S 78				38	8	"												
S 79				39	2	"												
S 80				40	2	"												
S 81				41	1	"												
S 82				41	11	"												
S 83				42	10	"												
S 84				43	8	"												
S 85		1		44	7	"												
S 86		67		45	0	Slab-Top & Bottom Longitudinal												
S 87		1		2	6	Slab-Top-Longitudinal												
S 88				3	3	"												
S 89				4	0	"												
S 90				4	10	"												
S 91				5	10	"												
S 92				6	9	"												
S 93				7	8	"												
S 94				8	7	"												
S 95				9	6	"												
S 96				10	4	"												
S 97				11	3	"												
S 98				12	2	"												
S 99				13	1	"												
S100				13	11	"												
S101				14	9	"												
S102				15	8	"												
S103				16	6	"												
S104				17	5	"												
S105	Str	1	4	18	4	"												

SPAN 4 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S106	Str	1	4	19	3	Slab-Top-Longitudinal												
S107		1		20	1	"												
S108		1		21	0	"												
S109		1		21	10	"												
S110		6		23	0	Slab-Top & Bottom-Longitudinal												
S111		1		35	0	"												
S112		1		35	6	Slab-Bottom-Longitudinal												
S113		4		36	0	"												
S114				36	6	"												
S115				37	0	"												
S116				37	6	"												
S117				38	0	"												
S118				38	6	"												
S119				38	11	"												
S120				39	4	"												
S121				40	10	"												
S122				41	4	"												
S123				41	10	"												
S124				42	3	"												
S125				42	9	"												
S126				43	3	"												
S127				43	9	"												
S128				44	3	"												
S129				44	9	"												
S130				2	3	"												
S131				2	8	"												
S132				3	2	"												
S133				3	7	"												
S134				4	1	"												
S135				4	6	"												
S136				5	0	"												
S137				5	5	"												
S138				5	10	"												
S139				7	5	"												
S140				7	11	"												
S141				8	6	"												
S142				9	0	"												
S143				9	6	"												
S144				9	11	"												
S145				10	5	"												
S146				10	11	"												
S147				11	5	"												
S148				12	9	"												
S149				13	3	"												
S150				13	9	"												
S151				14	2	"												
S152				14	8	"												
S153				15	2	"												
S154				15	8	"												
S155				16	1	"												
S156				16	7	"												
S157				18	2	"												
S158				18	8	"												
S159				19	1	"												
S160				19	7	"												
S161				20	1	"												
S162				20	7	"												
S163				21	1	"												
S164		1		21	7	"												
S165	Str	7	4	22	1	"												
S166	1	1	5	44	10	Slab-Top-Transverse	44	0	44	2½								
S167	1	1	5	44	2	"	43	4	43	6½								





DESIGNED BY R.P. CHECKED BY A.M.P. DATE
DETAILED BY R.P. CHECKED BY A.M.P. DATE
TRACED BY S.B. CHECKED BY A.M.P. DATE
REVISED DATE
REVISED DATE
REVISED DATE

SHEET 50 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
DECK

STATION 17+00.85 PROJECT NO. I 65-6(9)134

BRIDGE NUMBER

DRAWING NO. 14843

INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

S P A N 4 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S168	1	1	5	43	6	Slab-Top Transverse	42	8	42	10¼								
S169	↑	↑	↑	42	11	"	42	1	42	3½								
S170				42	4	"	41	6	41	8¾								
S171				41	8	"	40	10	41	0½								
S172				41	0	"	40	2	40	4¼								
S173				40	5	"	39	7	39	9¾								
S174					9	"	38	11	39	1¼								
S175				39	2	"	38	4	38	6½								
S176				38	6	"	37	8	37	10¼								
S177				37	11	"	37	1	37	3¼								
S178				37	3	"	36	5	36	7¼								
S179				36	8	"	35	10	36	0¼								
S180				36	0	"	35	2	35	4½								
S181				35	5	"	34	7	34	9¼								
S182				34	8	"	33	11	34	1¼								
S183				34	1	"	33	3	33	5¼								
S184				33	5	"	32	7	32	9¼								
S185				32	9	"	31	11	32	1¼								
S186				32	1	"	31	3	31	5¼								
S187				31	5	"	30	7	30	9¼								
S188				30	10	"	30	0	30	2¼								
S189				30	3	"	29	5	29	7¼								
S190				29	8	"	28	10	29	0¼								
S191				28	1	"	28	3	28	5¼								
S192				28	5	"	27	7	27	9¼								
S193				27	10	"	27	0	27	2¼								
S194				27	2	"	26	4	26	6¼								
S195				26	6	"	25	8	25	10¼								
S196				25	10	"	25	0	25	2¼								
S197				25	3	"	24	5	24	7¼								
S198				24	7	"	23	9	23	11¼								
S199				23	11	"	23	1	23	3¼								
S200				23	3	"	22	5	22	7¼								
S201				22	8	"	21	10	22	0¼								
S202				22	0	"	21	2	21	4¼								
S203				21	5	"	20	7	20	9¼								
S204				20	9	"	19	11	20	1¼								
S205				20	2	"	19	4	19	6¼								
S206				18	6	"	18	8	18	10¼								
S207				18	11	"	18	1	18	3¼								
S208				18	3	"	17	5	17	7¼								
S209				17	8	"	16	10	17	0¼								
S210				17	0	"	16	2	16	4¼								
S211				16	5	"	15	7	15	9¼								
S212				15	9	"	14	11	15	1¼								
S213				15	2	"	14	4	14	6¼								
S214				14	6	"	13	8	13	10¼								
S215				13	10	"	13	0	13	2¼								
S216				13	2	"	12	4	12	6¼								
S217				12	7	"	11	9	11	11¼								
S218				11	11	"	11	1	11	3¼								
S219				11	4	"	10	6	10	8¼								
S220				10	8	"	9	10	10	0¼								
S221				10	1	"	9	3	9	5¼								
S222				8	6	"	8	8	8	10¼								
S223				8	11	"	8	1	8	3¼								
S224				8	3	"	7	5	7	7¼								
S225				7	8	"	6	10	7	0¼								
S226				7	0	"	6	2	6	4¼								
S227				6	5	"	5	7	5	9¼								
S228	↓	↓	↓	5	10	"	5	0	5	2¼								
S228	1	1	5	5	1	"	4	3	4	5¼								

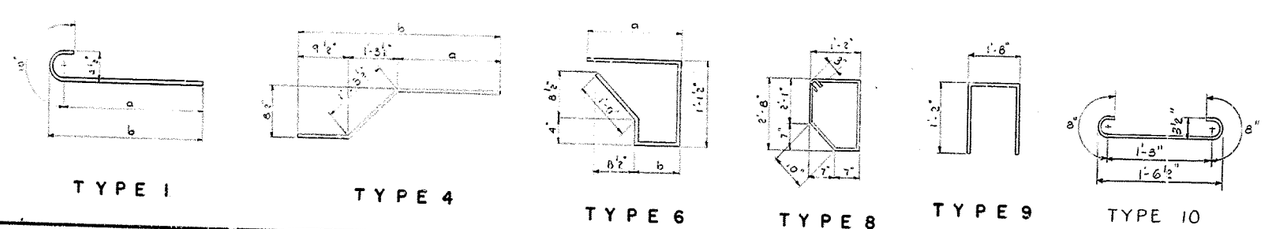
MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S230	1	1	5	4	6	Slab-Top-Transverse	3	8	3	10¼								
S231	1	↑	↑	3	11	"	3	1	3	3¼								
S232	1			3	4	"	2	6	2	8¼								
S233	4			6	7	Median	4	4	6	5								
S234	↑			6	0	"	3	9	5	10								
S235				5	4	"	3	1	5	2								
S236				4	9	"	2	6	4	7								
S237	↓	↓	↓	4	1	"	1	10	3	11								
S238	4	1	5	3	6	"	1	3	3	4								
S239	Str	12	6	7	0	Haunch-Bottom												
S240	"	12	6	9	0	"	9	0										
S241	6	30	4	4	6	Haunch	1	6¾	0	7								
S242	6	26	4	4	7	"	1	8¼	0	8								
S243	10	148	4	2	7	Slab-Parapet												
L1	8	4	4	7	6	Lighting Std. Supp.												
L2	9	3	4	3	10	"												

S P A N 6 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S1	Str	1	5	45	0	Slab-Bottom-Transverse												
S2	↑	↑	↑	44	5	"												
S3				43	11	"												
S4				43	5	"												
S5				42	10	"												
S6		↑		42	3	"												
S7		1		41	8	"												
S8		2		41	1	Slab-Top & Bottom Transverse												
S9		↑		40	7	"												
S10				40	0	"												
S11				39	5	"												
S12				38	10	"												
S13				38	3	"												
S14				37	9	"												
S15				37	2	"												
S16				36	7	"												
S17				36	0	"												
S18		↑		35	5	"												
S19		2		34	10	"												
S20		99		34	3	"												
S21		3		33	8	"												
S22		↑		33	1	"												
S23				32	6	"												
S24				32	0	"												
S25				31	5	"												
S26				30	10	"												
S27		↑		30	3	"												
S28		3		29	8	"												
S29		2		29	1	"												
S30		↑		28	6	"												
S31				27	11	"												
S32				27	4	"												
S33				26	9	"												
S34				26	2	"												
S35				25	7	"												
S36				25	0	"												
S37	↑	↑	↑	24	6	"												
S38	Str	2	5	24	0	"												

S P A N 6 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S39	Str	2	5	23	5	Slab-Top & Bottom Transverse												
S40	↑	↑		22	10	"												
S41				22	3	"												
S42				21	8	"												
S43				21	1	"												
S44		↑		20	6	"												
S45				19	11	"												
S46		2		19	4	"												
S47		105		18	9	"												
S48		2		18	2	"												
S49				17	7	"												
S50				17	0	"												
S51				16	5	"												
S52		2		15	10	"												
S53		4		15	3	"												
S54		2		14	8	"												
S55		↑		14	1	"												
S56				13	6	"												
S57				12	11	"												
S58				12	4	"												
S59				11	9	"												
S60				11	2	"												
S61				10	7	"												
S62				10	0	"												
S63				9	5	"												
S64				8	10	"												
S65				8	3	"												
S66				7	8	"												
S67				7	1	"												
S68				6	6	"												
S69				5	11	"												
S70				5	4	"												
S71				4	9	"												
S72		↑		4	2	"												
S73		2		3	7	"												
S74		1		3	0	Slab Bottom Transverse												
S75		9		2	7	Slab Top & Bottom Transverse												
S76		1		45	0	Slab-Bottom-Transverse												
S77		↑		44	6	"												
S78				44	0	"												
S79				43	5	"												
S80				42	11	"												
S81				42	4	"												
S82				41	10	"												
S83				41	3	"												
S84				40	9	"												
S85				40	2	"												
S86				39	7	"												
S87				39	1	"												
S88				38	7	"												
S89				38	0	"												
S90				37	6	"												
S91				36	11	"												
S92				36	5	"												
S93				35	10	"												
S94				35	4	"												
S95				34	10	"												
S96				34	3	"												
S97				33	9	"												
S98				33	3	"												
S99	↑	↑		32	8	"												
S100	Str	1	5	32	2	"												



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DETAILED BY R.P. CHECKED BY A.M.P. DATE
TRACED BY S.B. CHECKED BY A.M.P. DATE
REVISED DATE
REVISED DATE
REVISED DATE

SHEET 51 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
DECK

STATION 17+00.85 PROJECT NO. I65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

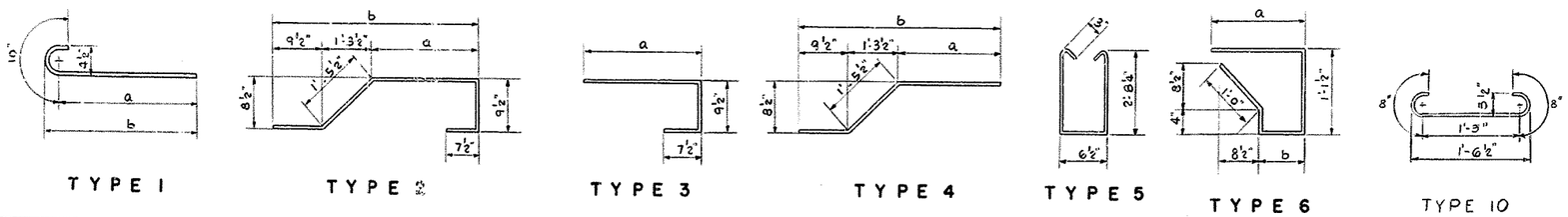
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

S P A N 6 NB

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S101	Str	1	5	31	7	Slab-Bottom-Transverse												
S102	"	"	"	31	1	"												
S103				30	6	"												
S104				30	0	"												
S105				29	6	"												
S106				28	11	"												
S107				28	4	"												
S108				27	10	"												
S109				27	4	"												
S110				26	9	"												
S111				26	3	"												
S112				25	9	"												
S113				25	3	"												
S114				24	8	"												
S115				24	2	"												
S116				23	7	"												
S117				23	1	"												
S118				22	7	"												
S119				22	0	"												
S120				21	6	"												
S121				20	11	"												
S122				20	5	"												
S123				19	11	"												
S124				19	4	"												
S125				18	10	"												
S126				18	3	"												
S127				17	9	"												
S128				17	3	"												
S129				16	8	"												
S130				16	2	"												
S131				15	7	"												
S132				15	1	"												
S133				14	7	"												
S134				14	1	"												
S135				13	6	"												
S136				13	0	"												
S137				12	6	"												
S138				12	0	"												
S139				11	5	"												
S140				10	10	"												
S141				10	4	"												
S142				9	10	"												
S143				9	4	"												
S144				8	9	"												
S145				8	3	"												
S146				7	9	"												
S147				7	3	"												
S148				6	9	"												
S149				6	2	"												
S150				5	8	"												
S151				5	1	"												
S152				4	7	"												
S153				4	1	"												
S154				3	7	"												
S155		1	5	3	0	"												
S156		70	4	42	6	Slab-Top & Bottom Longitudinal												
S157		60	"	43	0	"												
S158		60		43	6	"												
S159		12		44	6	"												
S160		8		20	2	Slab-Top & Bottom-Parapet Long.												
S161		4	4	21	0	Parapet Longitudinal												
S162	Str	12	6	9	0	Haunch-Bottom												

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S163	Str	12	6	9	9	Haunch-Bottom												
S164	1	105	5	45	0	Slab-Top-Transverse	44	2	44	4½								
S165	"	1	"	44	8	"	43	10	44	0¼								
S166		"		44	1	"	43	3	43	5¾								
S167				43	7	"	42	9	42	11½								
S168				43	0	"	42	2	42	4¾								
S169				42	6	"	41	8	41	10¼								
S170				41	11	"	41	1	41	3¾								
S171				41	5	"	40	7	40	9¼								
S172				40	10	"	40	0	40	2¾								
S173				40	3	"	39	5	39	7½								
S174				39	9	"	38	11	39	1¾								
S175				39	3	"	38	5	38	7½								
S176				38	8	"	37	10	38	0¼								
S177				38	2	"	37	4	37	6¾								
S178				37	7	"	36	9	36	11½								
S179				37	1	"	36	3	36	5¼								
S180				36	6	"	35	8	35	10¼								
S181				36	0	"	35	2	35	4¾								
S182				35	6	"	34	8	34	10¼								
S183				34	11	"	34	1	34	3¾								
S184				34	5	"	33	7	33	9¼								
S185				33	11	"	33	1	33	3¾								
S186				33	4	"	32	6	32	8¼								
S187				32	10	"	32	0	32	2¾								
S188				32	3	"	31	5	31	7¼								
S189				31	9	"	30	11	31	1¾								
S190				31	2	"	30	4	30	6¼								
S191				30	8	"	29	10	30	0¾								
S192				30	2	"	29	4	29	6¼								
S193				29	7	"	28	9	28	11¾								
S194				29	0	"	28	2	28	4¾								
S195				28	6	"	27	8	27	10¼								
S196				28	0	"	27	2	27	4¾								
S197				27	5	"	26	7	26	9¼								
S198				26	11	"	26	1	26	3¾								
S199				26	5	"	25	7	25	9¼								
S200				25	11	"	25	1	25	3¾								
S201				25	4	"	24	6	24	8¼								
S202				24	10	"	24	0	24	2¾								
S203				24	3	"	23	5	23	7¼								
S204				23	9	"	22	11	23	1¾								
S205				23	3	"	22	5	22	7¼								
S206				22	8	"	21	10	22	0¾								
S207				22	2	"	21	4	21	6¼								
S208				21	7	"	20	9	20	11¾								
S209				21	1	"	20	3	20	5¼								
S210				20	7	"	19	9	19	11¾								
S211				20	0	"	19	2	19	4¼								
S212				19	6	"	18	8	18	10¾								
S213				18	11	"	18	1	18	3¼								
S214				18	5	"	17	7	17	9¾								
S215				17	11	"	17	1	17	3¼								
S216				17	4	"	16	6	16	8¾								
S217				16	10	"	16	0	16	2¼								
S218				16	3	"	15	5	15	7¾								
S219				15	9	"	14	11	15	1¼								
S220				15	3	"	14	5	14	7¾								
S221				14	9	"	13	11	14	1¼								
S222				14	2	"	13	4	13	6¾								
S223	"	"	"	13	8	"	12	10	13	0¼								
S224	1	1	5	13	2	"	12	4	12	6¾								

MARK	TYPE	NO.	SIZE	LENGTH FT.	LENGTH IN.	LOCATION	a FT.	a IN.	b FT.	b IN.	c FT.	c IN.	d FT.	d IN.	e FT.	e IN.	f FT.	f IN.
S225	1	1	5	12	8	Slab-Top-Transverse	11	10	12	0¼								
S226	"	"	"	12	1	"	11	3	11	5¾								
S227				11	6	"	10	8	10	10¼								
S228				11	0	"	10	2	10	4¾								
S229				10	6	"	9	8	9	10¼								
S230				10	0	"	9	2	9	4¾								
S231				9	5	"	8	7	8	9¼								
S232				8	11	"	8	1	8	3¾								
S233				8	5	"	7	7	7	9¼								
S234				7	11	"	7	1	7	3¾								
S235				7	5	"	6	7	6	9¼								
S236				6	10	"	6	0	6	2¾								
S237				6	4	"	5	6	5	8¼								
S238				5	9	"	4	11	5	1¾								
S239				5	3	"	4	5	4	7¼								
S240				4	9	"	3	11	4	1¾								
S241	"	"		4	3	"	3	5	3	7¼								
S242	1	1		3	8	"	2	10	3	0¼								
S243	2	161		9	9	Median	6	2	8	3								
S244	3	1		7	6	"	6	3										
S245	"	"		7	5	"	6	2										
S246				7	4	"	6	1										
S247				6	9	"	5	6										
S248				6	3	"	5	0										
S249				5	9	"	4	6										
S250				5	2	"	3	11										
S251		1		4	7	"	3	4										
S252	3	3		4	0	"	2	9										
S253	4	1		8	6	"	6	3	8	4								
S254	"	"		8	9	"	6	6	8	7								
S255				7	11	"	5	8	7	9								
S256				7	4	"	5	1	7	2								
S257				6	10	"	4	7	6	8								
S258				6	3	"	4	0	6	1								
S259				5	7	"	3	4	5	5								
S260				5	1	"	2	10	4	11								
S261				4	7	"	2	4	4	5								
S262	"	"	"	4	1	"	1	10	3	11								
S263	4	1	5	3	6	"	1	3	3	4								
S264	5	190	4	6	3	Parapet-Vertical												
S265	6	84	4	4	8	Haunch	1	8½	0	9								
S266	Str	2	4	23	6	Parapet-Longitudinal												
S267	10	190	4	2	7	Slab-Parapet												



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REVISED DATE

SHEET 52 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

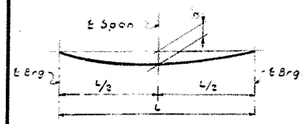
NORTH · SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
BILL OF REINFORCEMENT
DECK

STATION 17+00.85 PROJECT NO. I 65-6(9)134

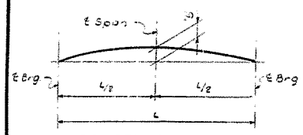
BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY				

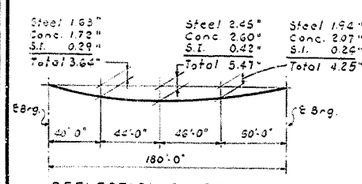
GIRDER	DEFLECTION "a" (INCHES) DEAD LOAD STEEL	CONC.	S.I.	TOTAL	CAMBER (INCHES) "b"
G1	0.78	1.80	0.18	2.71	2 3/4
G2	0.89	1.78	0.18	2.85	2 7/8
G3	0.99	1.93	0.20	3.12	3 1/8
G4	0.99	1.87	0.21	3.07	3 1/8
G5	1.11	2.05	0.24	3.40	3 3/8
G6	1.16	2.02	0.21	3.39	3 3/4
G7	1.30	2.24	0.27	3.41	2 5/8
G8	1.20	2.34	0.12	3.46	3 1/2
G9	1.27	2.10	0.19	3.56	3 1/2
G10	1.34	2.10	0.21	3.65	3 5/8
G11	1.53	2.30	0.23	4.06	4
G12	1.65	2.36	0.25	4.26	4 1/4
G13	1.88	2.46	0.28	4.62	4 5/8
G14	See Sketch				
G15	—	—	—	—	—
G15A	—	—	—	—	—
G15B	—	—	—	—	—
G15C	—	—	—	—	—



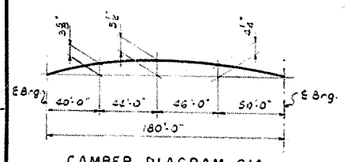
DEFLECTION DIAGRAM
G1 to G13



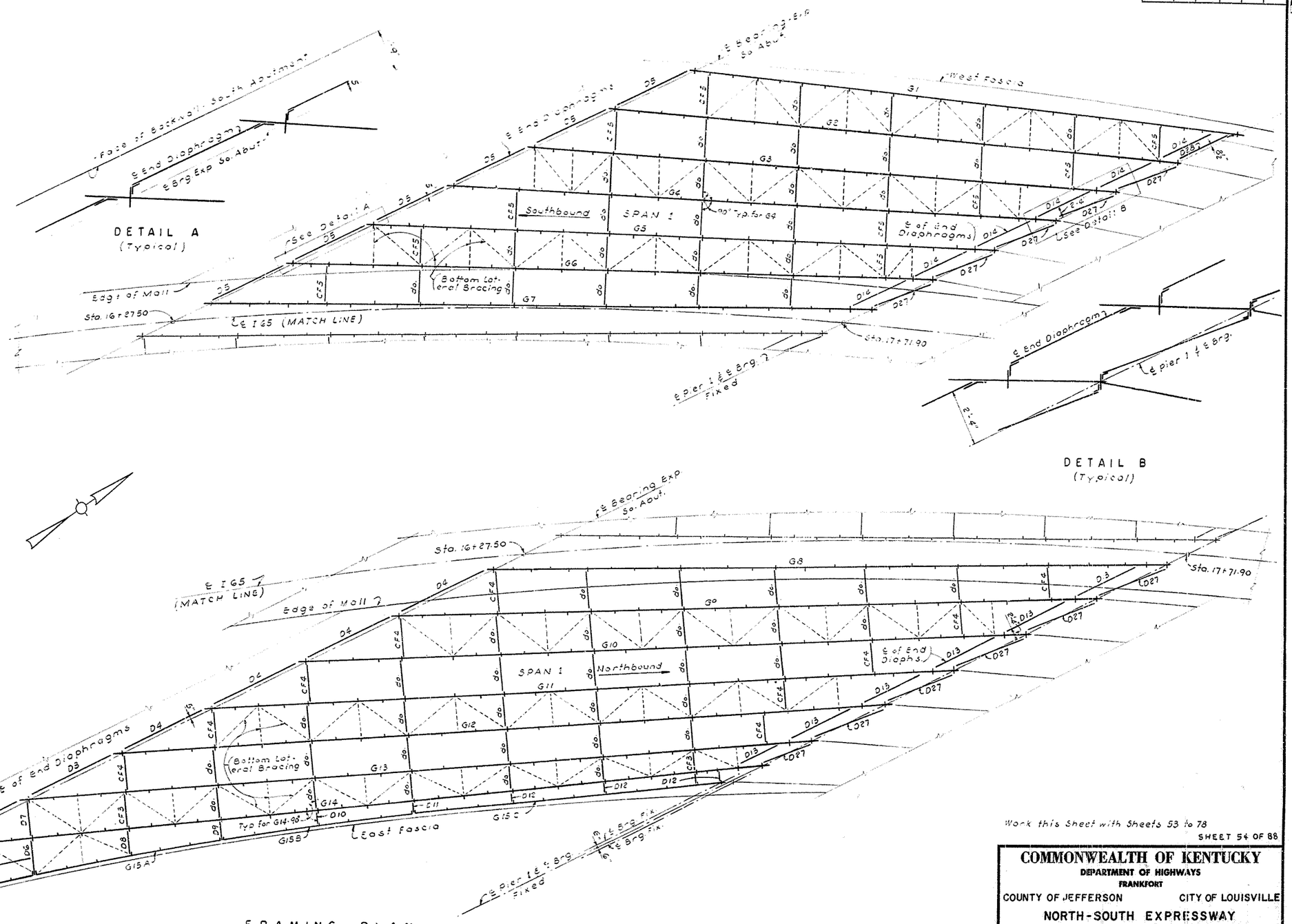
CAMBER DIAGRAM
G1 to G13



DEFLECTION DIAGRAM-G14



CAMBER DIAGRAM-G14



FRAMING PLAN

End Diaphragms, Intermediate Cross Frames and Bottom Lateral Bracing - Span 1

SHEET 54 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

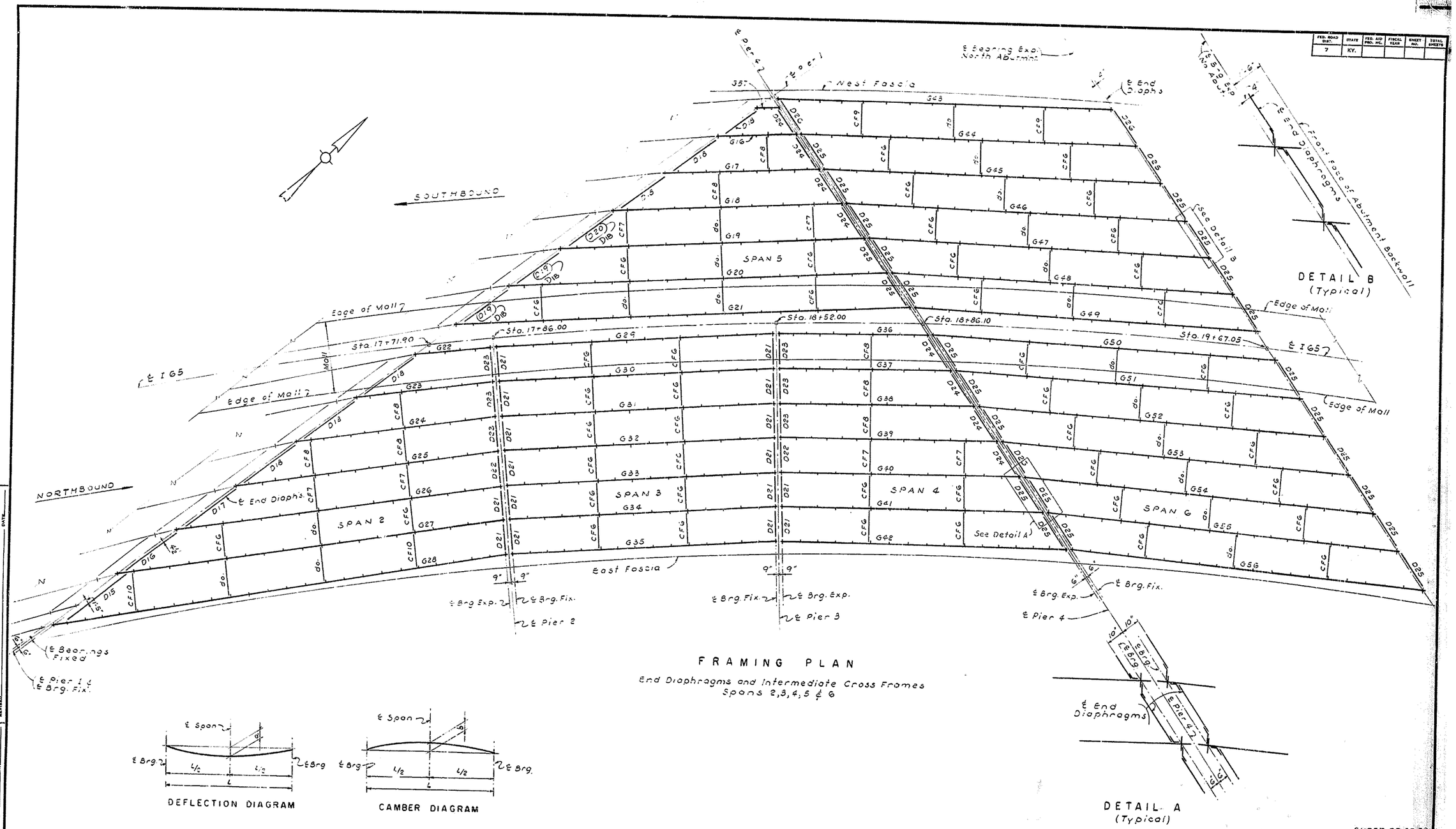
STRUCTURAL STEEL DETAILS

STATION 17+00.85 — PROJECT NO. I65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY MDR — CHECKED BY PR — DATE
DETAILED BY RR — CHECKED BY PR — DATE
TRACED BY TAS — CHECKED BY PR — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



FRAMING PLAN

End Diaphragms and Intermediate Cross Frames
Spans 2, 3, 4, 5 & 6

GIRDERS		G16	G17	G18	G19	G20	G21	G22	G23	G24	G25	G26	G27	G28	G29	G30	G31	G32	G33	G34	G35	G36	G37	G38	G39	G40	G41	G42	G43	G44	G45	G46	G47	G48	G49	G50	G51	G52	G53	G54	G55	G56	G57
DEFLECTION'S Dead Load	Steel	-	0.02	0.10	0.20	0.37	0.69	-	0.02	0.06	0.17	0.27	0.41	0.52	0.20	0.21	0.18	0.18	0.18	0.15	0.10	0.02	0.04	0.05	0.07	0.08	0.10	0.14	0.15	0.26	0.27	0.27	0.27	0.26	0.26	0.27	0.28	0.29	0.30	0.30	0.30	0.32	-
	Concrete	-	0.18	0.53	0.79	1.37	1.95	-	0.11	0.35	0.78	1.01	1.36	1.16	0.89	0.93	0.83	0.83	0.85	0.75	0.49	0.20	0.25	0.29	0.42	0.38	0.45	0.67	0.68	0.98	1.04	1.04	1.04	1.11	1.24	1.20	1.12	1.05	1.11	1.11	1.11	1.20	-
	S.D.	-	0.01	0.03	0.05	0.09	0.12	-	0.01	0.02	0.04	0.06	0.09	0.21	0.04	0.05	0.05	0.05	0.05	0.04	0.06	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.07	0.08	0.08	0.08	0.08	0.06	0.06	0.08	0.08	0.09	0.09	0.09	0.09	-
	Total	-	0.21	0.66	1.04	1.83	2.76	-	0.15	0.43	0.99	1.34	1.86	1.89	1.13	1.19	1.06	1.06	1.06	0.94	0.65	0.23	0.30	0.36	0.51	0.48	0.57	0.89	0.88	1.31	1.39	1.39	1.39	1.45	1.54	1.53	1.48	1.42	1.50	1.50	1.50	1.61	-
CAMBER "C"		-	1/4"	5/8"	1"	1 7/8"	2 3/4"	-	-	3/8"	1"	1 3/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1"	1"	1"	1"	5/8"	1/4"	1/4"	3/8"	1/2"	1/2"	1/2"	3/8"	7/8"	1 1/4"	1 3/8"	1 1/3"	1 3/8"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 3/8"	1 1/2"	1 1/2"	1 1/2"	1 5/8"	-

Work this Sheet with Sheets 53 to 78

SHEET 55 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

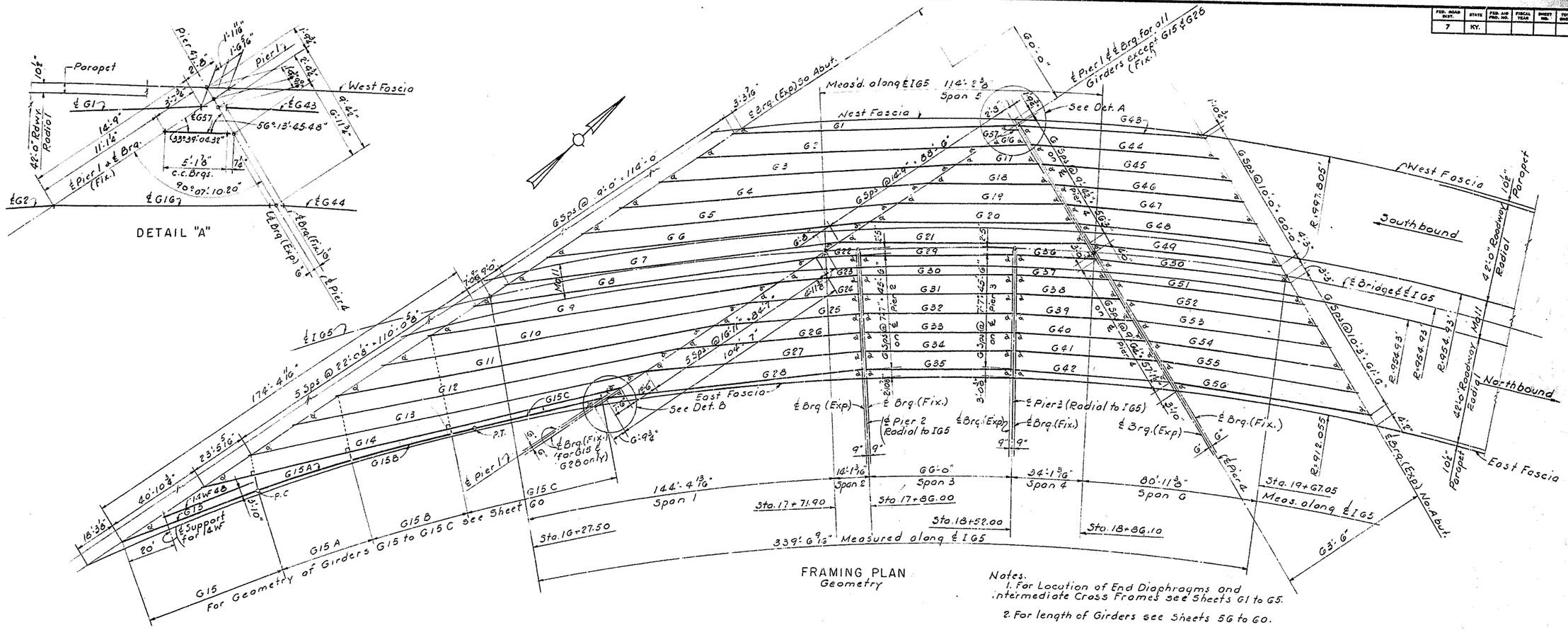
NORTH - SOUTH EXPRESSWAY
EXPWAY OVER BROOK ST. & WALNUT ST.
STRUCTURAL STEEL DETAILS

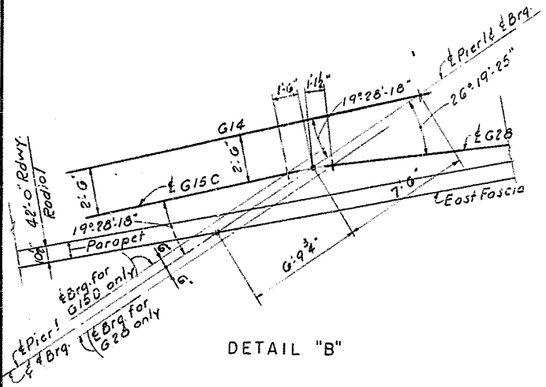
STATION 17+00.85 — PROJECT NO. I65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY MDR — CHECKED BY P.R. — DATE
DETAILED BY R.Q. — CHECKED BY P.R. — DATE
TRACED BY T.A.B. — CHECKED BY P.R. — DATE
REVISED: Changed Dia & Dia to Dia KMDTR — DATE 6/1/62
REVISED: — DATE
REVISED: — DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				





SPAN 1		SPAN 2			SPAN 3		SPAN 4			SPAN 5			SPAN 6	
Mark of Girder	Angle ∠ at South Abut. and Pier 1	Mark of Girder	Angle ∠ at Pier 1	Angle ∠ at Pier 2	Mark of Girder	Angle ∠ at Pier 2 and Pier 3	Mark of Girder	Angle ∠ at Pier 3	Angle ∠ at Pier 4	Mark of Girder	Angle ∠ at Pier 1	Angle ∠ at Pier 4	Mark of Girder	Angle ∠ at Pier 4 and at No. Abut.
G1	30°06'-09"	G22	29°18'-35"	89°33'-16"	G29	88°01'-12"	G36	88°54'-15"	55°04'-10"	G57	See Det. A	See Det. A	G43	53°58'-55"
G2	29°08'-37"	G23	28°06'-03"	88°20'-45"	G30		G37	88°35'-32"	54°45'-27"	G16	32°35'-19"	57°17'-31"	G44	53°36'-53"
G3	28°12'-33"	G24	27°38'-09"	87°52'-50"	G31		G38	88°21'-06"	54°31'-01"	G17	32°30'-02"	57°22'-48"	G45	53°15'-04"
G4	27°19'-43"	G25	27°23'-22"	87°38'-03"	G32		G39	88°09'-38"	54°19'-33"	G18	32°28'-10"	57°24'-39"	G46	52°53'-27"
G5	26°29'-50"	G26	27°14'-13"	87°28'-55"	G33		G40	88°00'-17"	54°10'-13"	G19	32°27'-14"	57°25'-36"	G47	52°32'-01"
G6	25°42'-42"	G27	27°08'-00"	87°22'-41"	G34		G41	87°52'-33"	54°02'-28"	G20	32°26'-39"	57°26'-10"	G48	52°10'-49"
G7	24°58'-06"	G28	26°19'-25"	86°34'-06"	G35	88°01'-12"	G42	87°46'-01"	53°55'-56"	G21	32°26'-16"	57°26'-33"	G49	51°49'-48"
G8	24°14'-06"												G50	51°33'-09"
G9	23°26'-27"												G51	51°09'-03"
G10	22°41'-39"												G52	50°45'-14"
G11	21°59'-29"												G53	50°21'-42"
G12	21°19'-44"												G54	49°58'-25"
G13	20°42'-13"												G55	49°35'-24"
G14	19°28'-18"												G56	49°12'-39"
G15	① 13°33'-42.3"													
G15C	② 19°28'-18"													

① At South Abut.
② At Pier 1

Work this Sheet with Sheets 54 to 78

SHEET 53 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

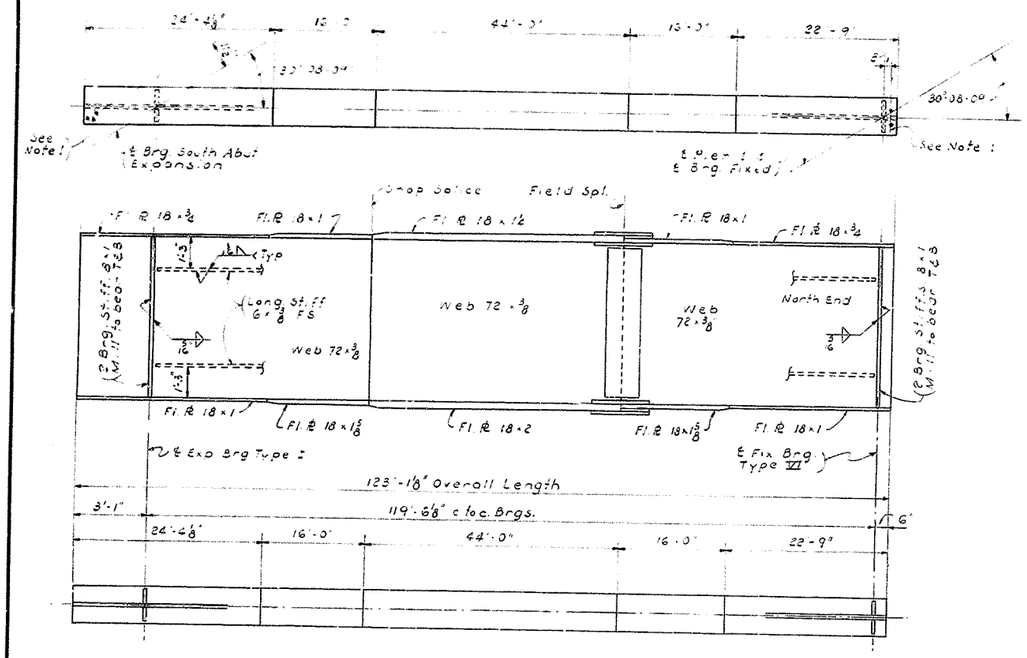
NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

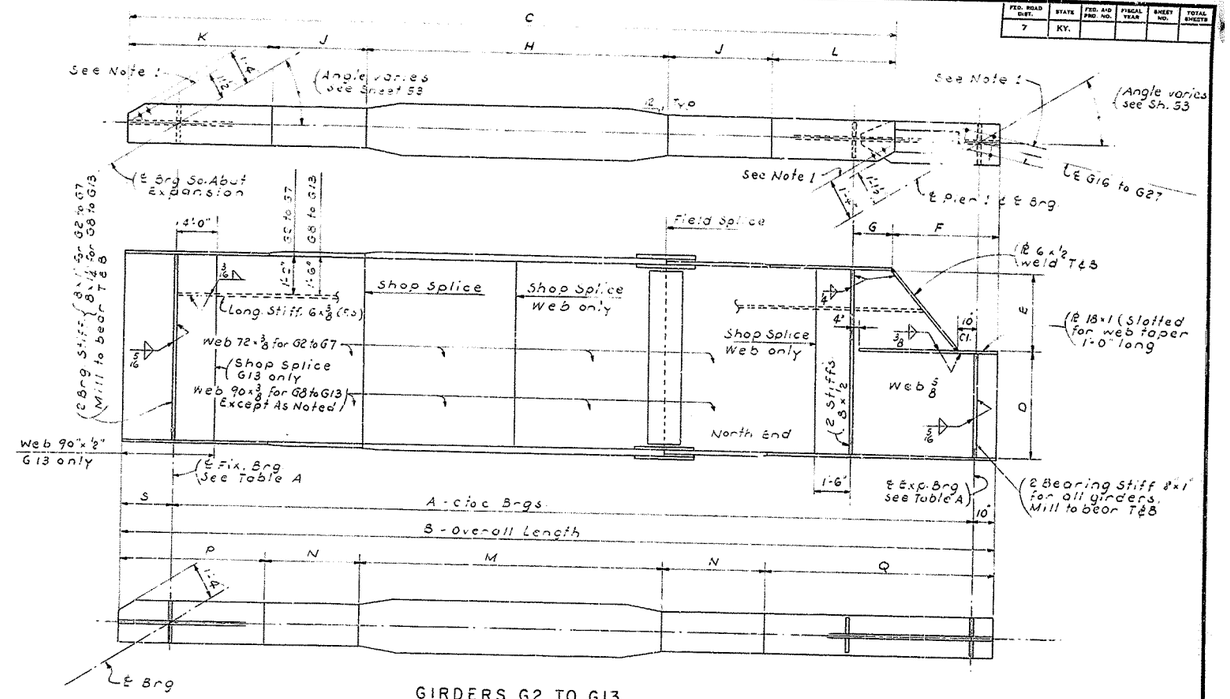
BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY: M.D.R. — CHECKED BY: P.R. — DATE
DETAILED BY: H.U. — CHECKED BY: P.R. — DATE
TRACED BY: M.A.D. — CHECKED BY: P.R. — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

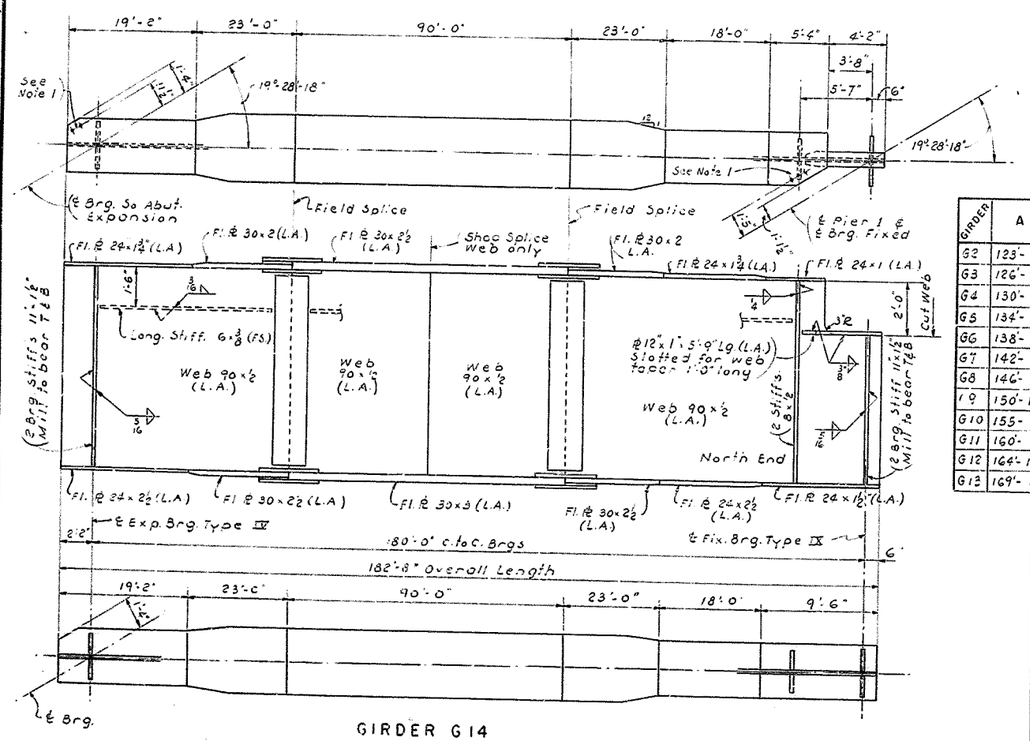


GIRDER G1



GIRDERS G2 TO G13

Note 1: for location of holes see Sheets 71 to 77.



GIRDER G14

TABLE "A"

GIRDER	A	B	C	D	E	F	G	TOP FLANGE PLATES H	J	K	L	BOTTOM FLANGE PLATES M	N	P	Q	EXP. BRG. TYPE AT SOUTH END	FIX. BRG. TYPE AT NORTH END	S
G2	123'-2 1/2"	126'-2 1/2"	122'-9 1/2"	3'-1 1/4"	2'-10 3/8"	3'-5"	1'-6"	18" x 1 1/4" x 52'-0"	18" x 1" x 15'-0"	18" x 3/4" x 22'-3 1/4"	18" x 3/4" x 18'-6 1/4"	18" x 2" x 52'-0"	18" x 1 5/8" x 15'-0"	18" x 1" x 22'-3 1/4"	18" x 1" x 21'-11 1/4"	I	XXIII	2'-2"
G3	126'-11 1/4"	129'-11 1/4"	126'-5 1/4"	3'-1 1/4"	2'-10 3/8"	3'-6"	1'-6"	18" x 1 1/4" x 58'-0"	18" x 1" x 15'-0"	18" x 3/4" x 21'-1 1/2"	18" x 3/4" x 17'-3 3/4"	18" x 2" x 58'-0"	18" x 1 5/8" x 15'-0"	18" x 1" x 21'-1 1/2"	18" x 1" x 20'-9 3/4"	do.	do.	2'-2"
G4	130'-8 3/4"	133'-8 3/4"	130'-1 3/8"	3'-1 1/4"	2'-10 3/8"	3'-7"	1'-6"	24" x 1 1/8" x 62'-0"	18" x 1 1/8" x 15'-0"	18" x 3/4" x 21'-0 1/4"	18" x 3/4" x 17'-1 7/8"	24" x 1 5/8" x 62'-0"	18" x 1 5/8" x 15'-0"	18" x 1" x 21'-0 1/4"	18" x 1" x 20'-0 5/8"	do.	do.	2'-2"
G5	134'-5 13/16"	137'-5 13/16"	133'-9 13/16"	3'-1 1/4"	2'-10 3/8"	3'-8"	1'-6"	24" x 1 1/8" x 65'-0"	18" x 1 1/8" x 15'-0"	18" x 3/4" x 21'-4 7/8"	18" x 3/4" x 17'-4 15/16"	24" x 1 5/8" x 65'-0"	18" x 1 5/8" x 15'-0"	18" x 1" x 21'-4 7/8"	18" x 1" x 21'-0 15/16"	I	XXIII	2'-2"
G6	138'-5 5/8"	141'-5 5/8"	137'-6 5/8"	3'-1 1/4"	2'-10 3/8"	3'-9"	1'-6"	24" x 1 3/8" x 68'-0"	18" x 1 3/8" x 20'-0"	18" x 3/4" x 19'-3 3/4"	18" x 3/4" x 15'-2 7/8"	24" x 2" x 68'-0"	18" x 2" x 20'-0"	18" x 1" x 19'-3 3/4"	18" x 1" x 18'-11 7/8"	XXII	XXIV	2'-2"
G7	142'-1 3/4"	145'-10 3/4"	142'-0 3/4"	3'-1 1/4"	2'-10 3/8"	3'-10"	1'-6"	24" x 1 3/8" x 67'-0"	18" x 1 3/8" x 20'-0"	18" x 3/4" x 19'-11 1/2"	18" x 3/4" x 15'-1"	24" x 2" x 67'-0"	18" x 2" x 20'-0"	18" x 1" x 19'-11 1/2"	18" x 1" x 18'-11"	do.	do.	2'-11"
G8	146'-2 11/16"	149'-5 11/16"	145'-6 11/16"	3'-9 1/2"	3'-8 1/2"	3'-11"	1'-6"	24" x 1 3/8" x 69'-0"	18" x 1 3/8" x 19'-0"	18" x 3/4" x 21'-6"	18" x 3/4" x 17'-0 11/16"	24" x 2" x 69'-0"	18" x 2" x 19'-0"	18" x 1" x 21'-6"	18" x 1" x 20'-11 11/16"	XXII	XXIV	2'-5"
G9	150'-10"	154'-1"	150'-2"	3'-9 1/2"	3'-8 1/2"	3'-11"	1'-6"	24" x 1 3/8" x 75'-0"	18" x 1 3/8" x 16'-0"	18" x 3/4" x 23'-10"	18" x 3/4" x 19'-4"	24" x 1 5/8" x 75'-0"	18" x 1 5/8" x 16'-0"	18" x 1" x 23'-10"	18" x 1" x 23'-3"	II	VII	2'-5"
G10	155'-6 1/4"	158'-9 1/4"	154'-9 1/4"	3'-9 1/4"	3'-8 1/4"	4'-0"	1'-7"	24" x 1 1/4" x 76'-0"	18" x 1 1/4" x 18'-0"	18" x 3/4" x 23'-8 11/16"	18" x 3/4" x 19'-1 3/8"	24" x 1 3/4" x 76'-0"	18" x 1 3/4" x 18'-0"	18" x 1" x 23'-8 11/16"	18" x 1" x 23'-1 3/8"	II	do.	2'-5"
G11	160'-2 3/4"	163'-5 3/4"	159'-4 3/4"	3'-9"	3'-9"	4'-1"	1'-8"	24" x 1 1/4" x 77'-0"	18" x 1 1/4" x 19'-0"	18" x 3/4" x 24'-6 3/8"	18" x 3/4" x 19'-1 3/8"	24" x 1 3/4" x 77'-0"	18" x 1 3/4" x 19'-0"	18" x 1" x 24'-6 3/8"	18" x 1" x 23'-11 3/8"	III	VII	2'-5"
G12	164'-11 9/16"	168'-2 9/16"	164'-0 9/16"	3'-9"	3'-9"	4'-2"	1'-9"	24" x 1 3/8" x 78'-0"	18" x 1 3/8" x 21'-0"	18" x 3/4" x 24'-4 3/4"	18" x 3/4" x 19'-7 1/16"	24" x 1 5/8" x 78'-0"	18" x 1 5/8" x 21'-0"	18" x 1" x 24'-4 3/4"	18" x 1" x 23'-9 1/2"	do.	VIII	2'-5"
G13	169'-8 3/8"	172'-11 3/8"	168'-8 3/8"	3'-9"	3'-9"	4'-3"	1'-10"	24" x 1 3/8" x 83'-0"	18" x 1 3/8" x 21'-0"	18" x 3/4" x 24'-3 1/4"	18" x 3/4" x 19'-5 3/8"	24" x 1 5/8" x 83'-0"	18" x 1 5/8" x 21'-0"	18" x 1" x 24'-3 1/4"	18" x 1" x 23'-8 3/8"	III	VIII	2'-5"

ESTIMATE OF QUANTITIES
STRUCTURAL STEEL

Girders L.A. Steel	125,720 lbs.
Girders Carbon Steel	1,173,615 lbs.
Diaphragms	178,700 lbs.
Expansion Assemblies	81,060 lbs.
Bottom Lateral Bracing	20,790 lbs.
Shoes	50,000 lbs.
Drainage Details	1,300 lbs.
TOTAL	1,631,185 lbs.

Work this Sheet with Sheets 53 to 78

SHEET 56 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

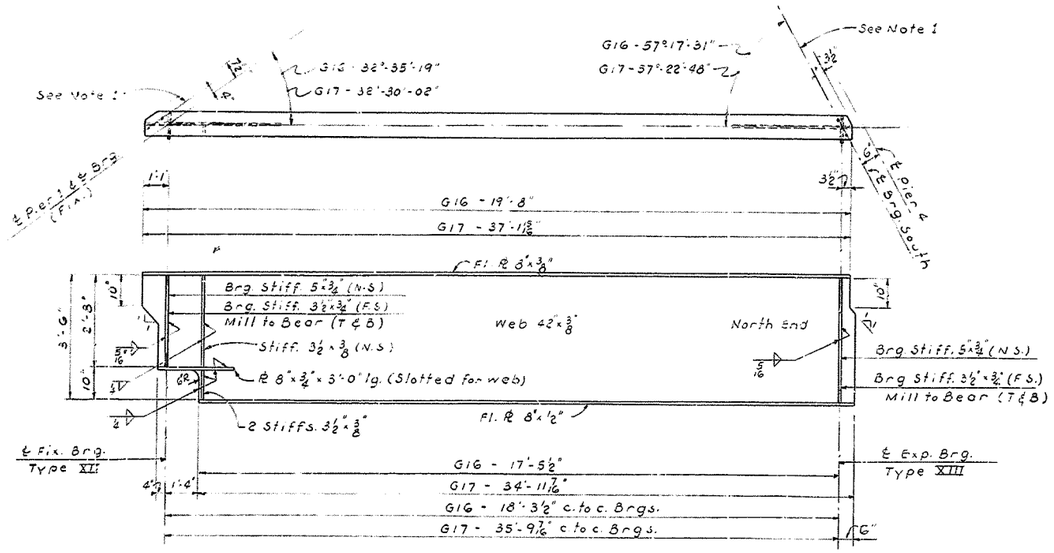
STRUCTURAL STEEL DETAILS

STATION 17+00.85 — PROJECT NO. I 65-6(9) 134

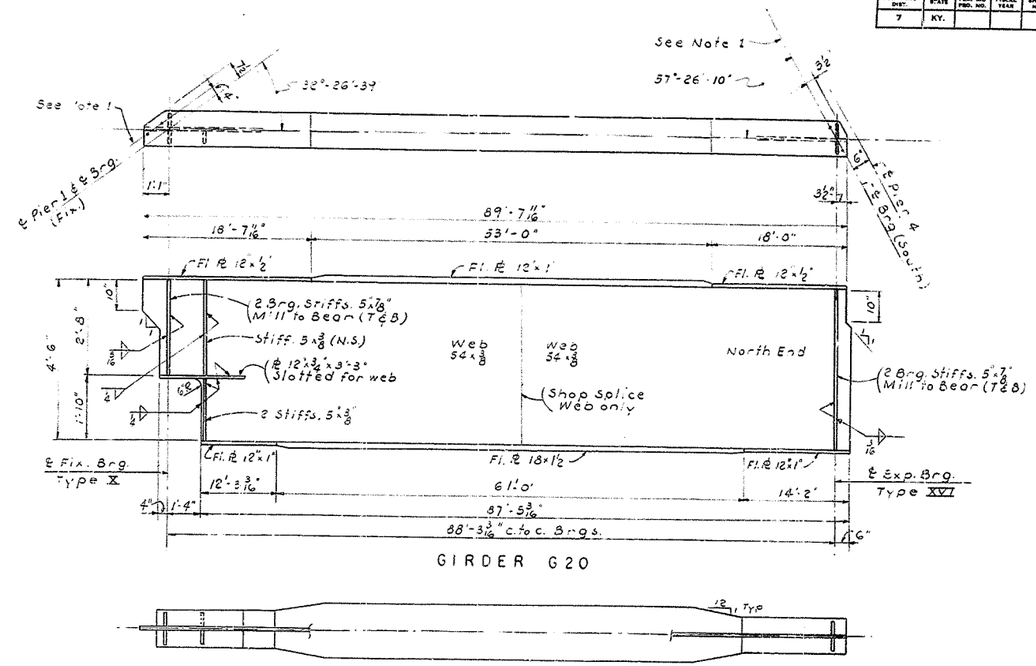
BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY MDR	CHECKED BY P.R.	DATE	REVISED DATE
DETAILED BY R.R.	CHECKED BY P.R.	DATE	REVISED DATE
TRACED BY T.A.S.	CHECKED BY P.R.	DATE	REVISED DATE

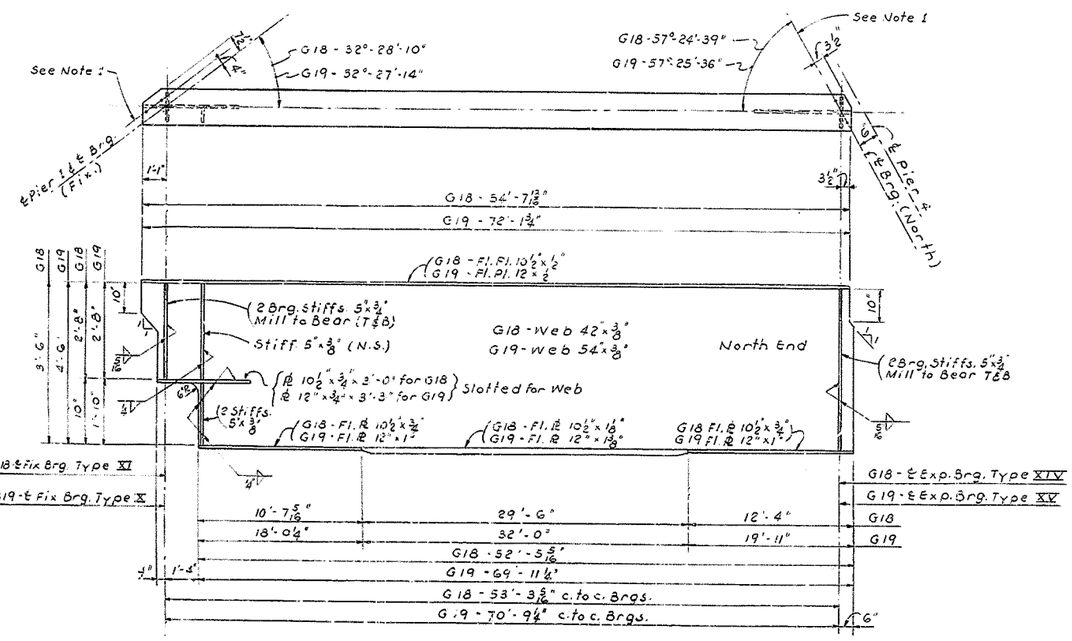
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



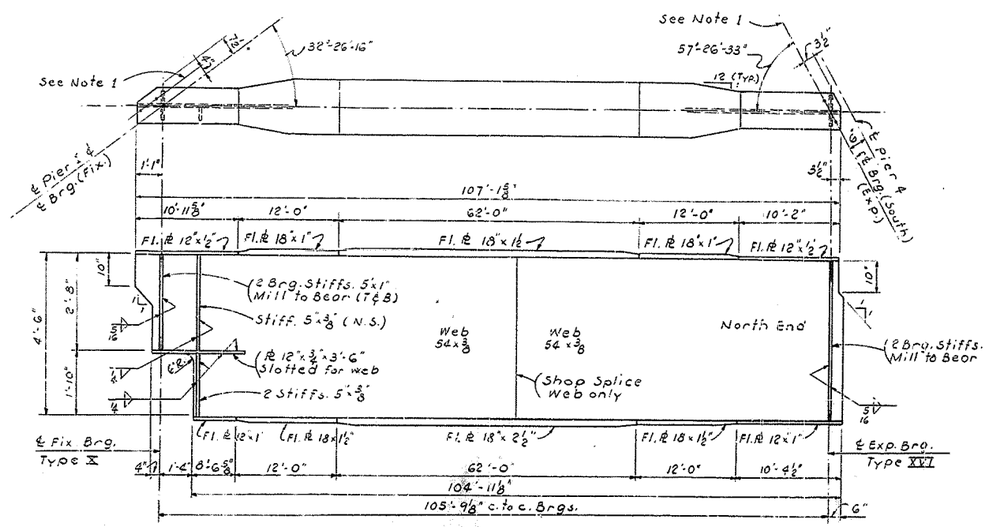
GIRDERS G16 & G17



GIRDER G20



GIRDERS G18 & G19



GIRDER G21

Bottom view same as for G20

Note 1
For location of holes
See Sheets 71 to 77

Work this Sheet with Sheets 53 to 78

SHEET 57 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

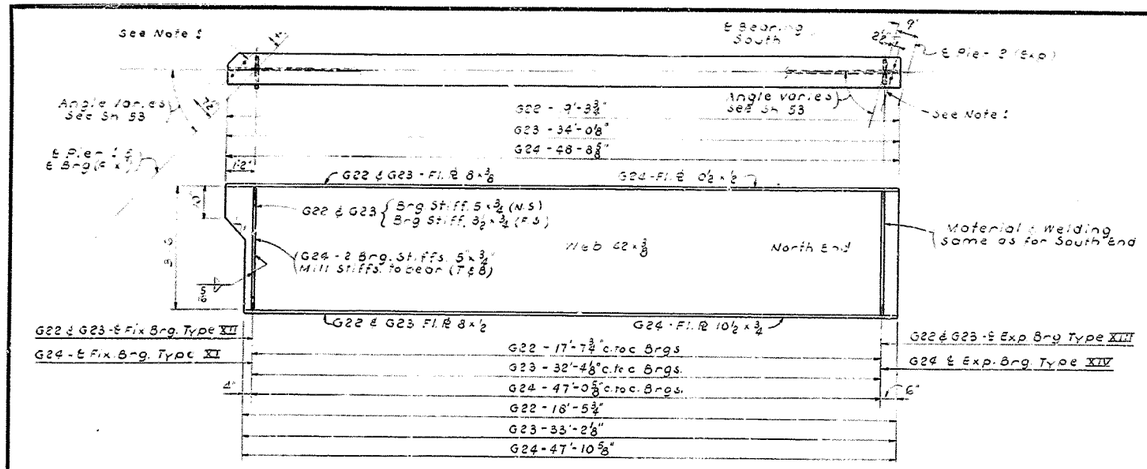
NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

STRUCTURAL STEEL DETAILS

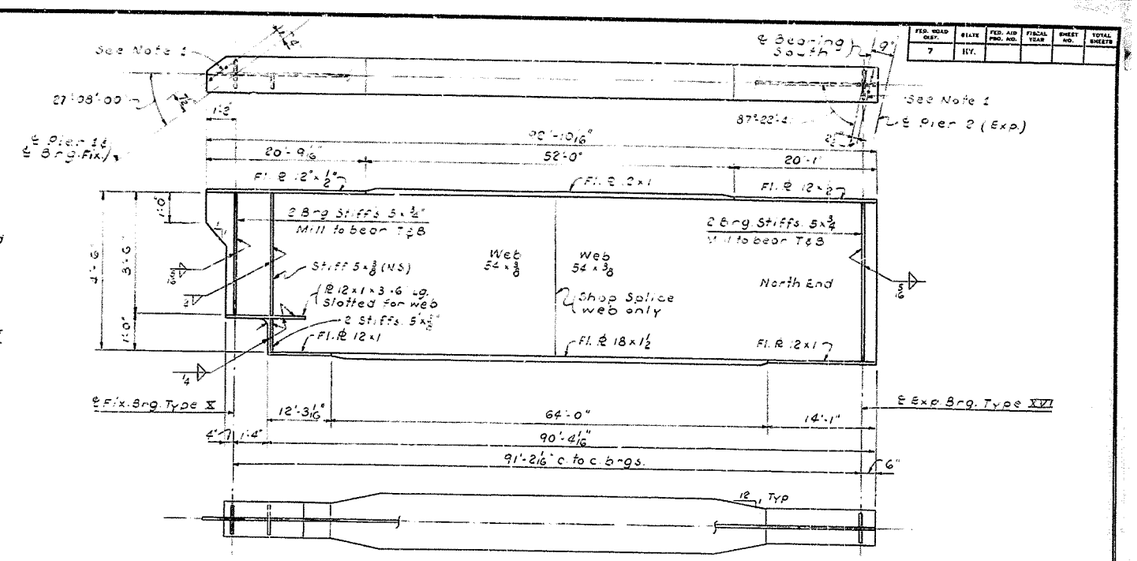
STATION 17+00.85 — PROJECT NO. I 65-6 (9) 134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

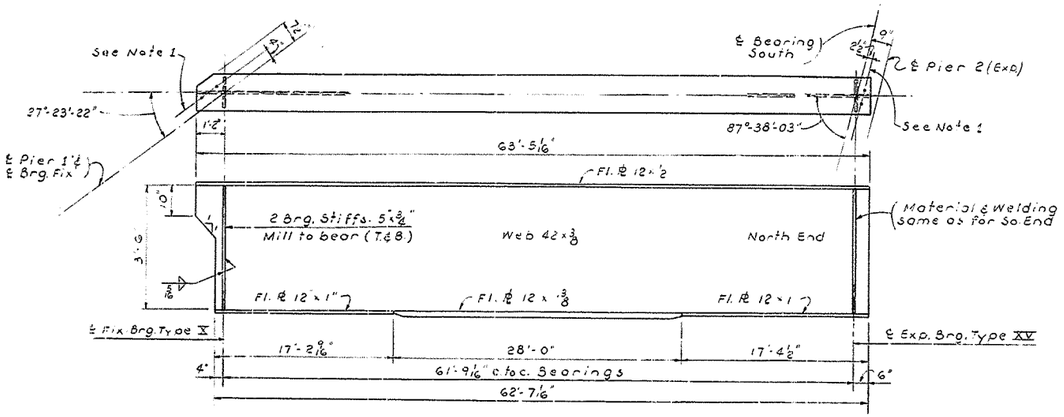
DESIGNED BY M.D.R.	CHECKED BY P.R.	DATE	REVISED
DETAILED BY R.K.	CHECKED BY P.R.	DATE	REVISED
TRACED BY T.A.S.	CHECKED BY P.R.	DATE	REVISED



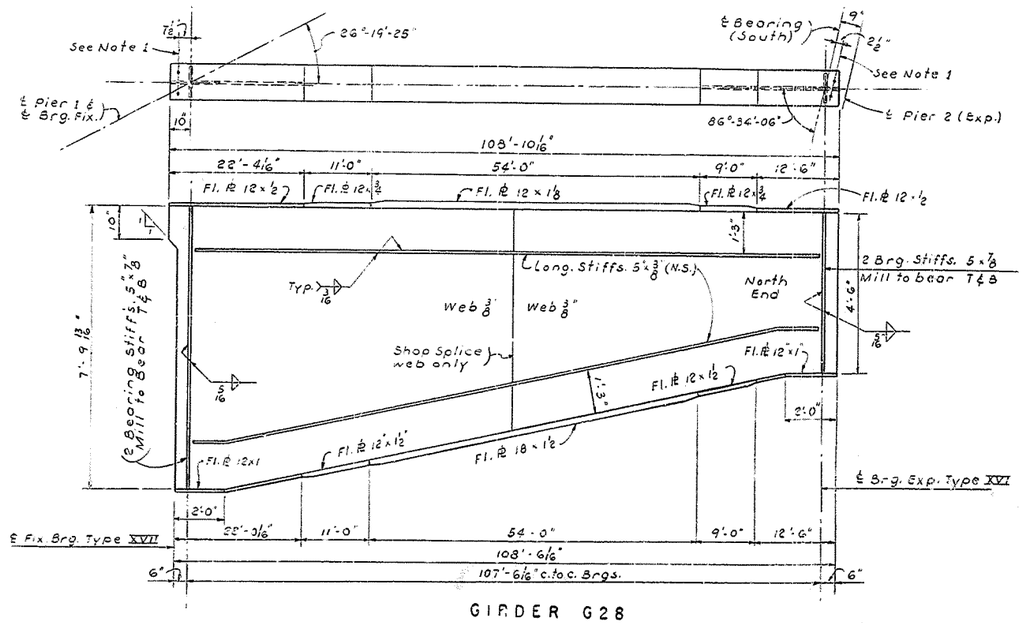
GIRDERS G22, G23 & G24



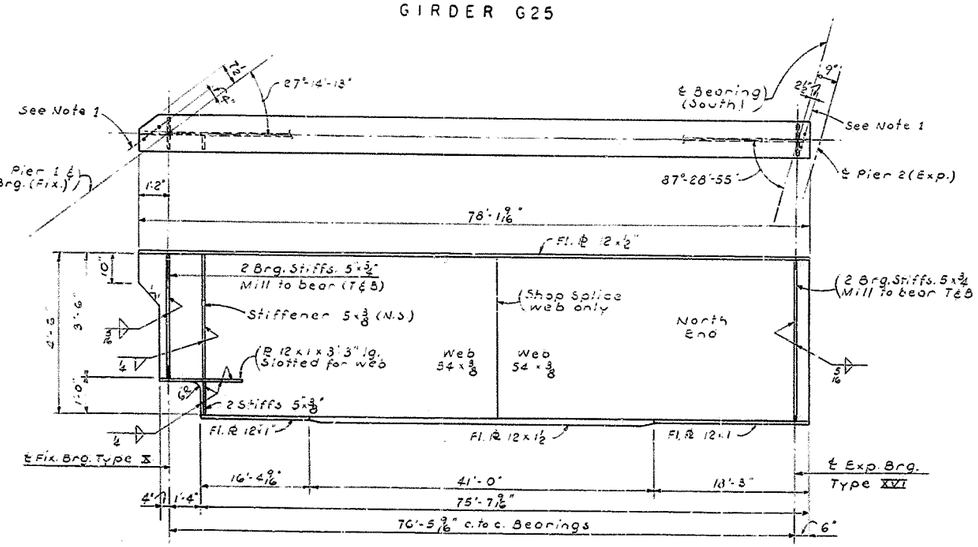
GIRDER G27



GIRDER G25



GIRDER G28



GIRDER G26

Note 1 For location of holes see Sheets 71 to 73

Work this Sheet with Sheets 53 to 78

FED. ROAD DIV.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

SHEET 58 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

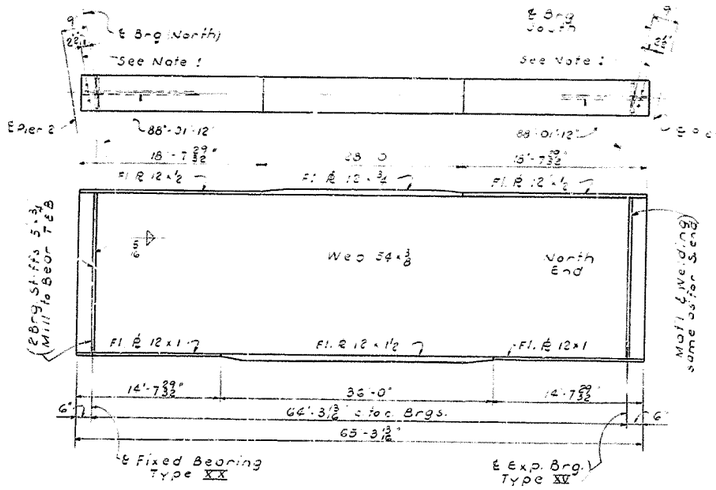
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
STRUCTURAL STEEL DETAILS

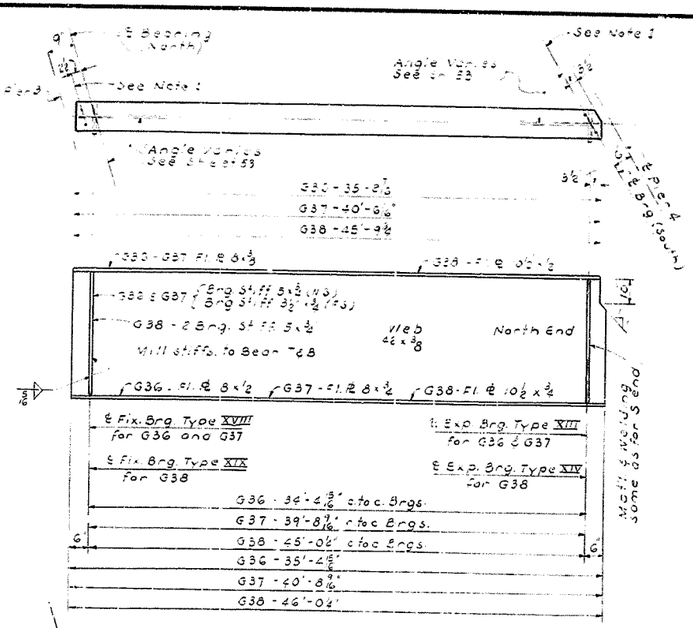
STATION 17+00.85 — PROJECT NO. I65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

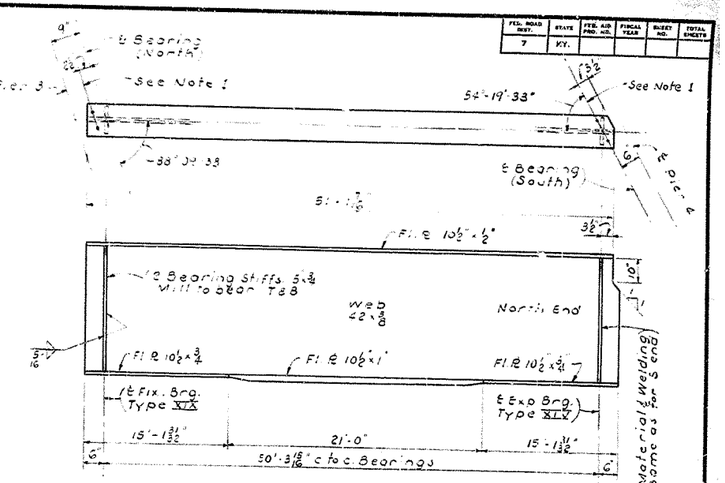
DESIGNED BY M.D.R. — CHECKED BY P.R. — DATE
DETAILED BY R.R. — CHECKED BY P.R. — DATE
TRACED BY T.A.B. — CHECKED BY P.R. — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE



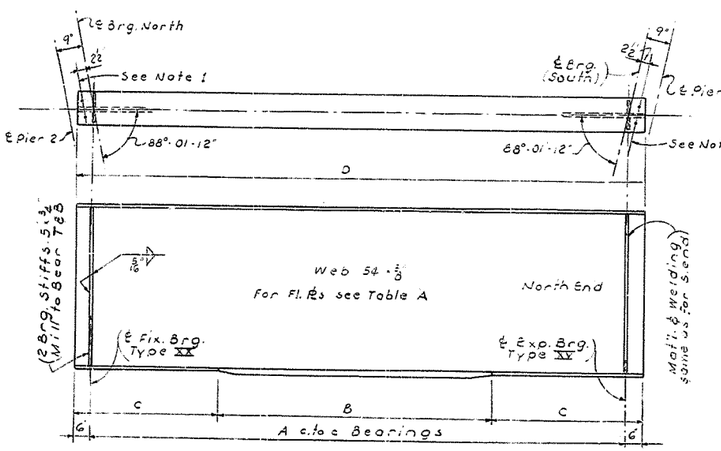
GIRDER G29



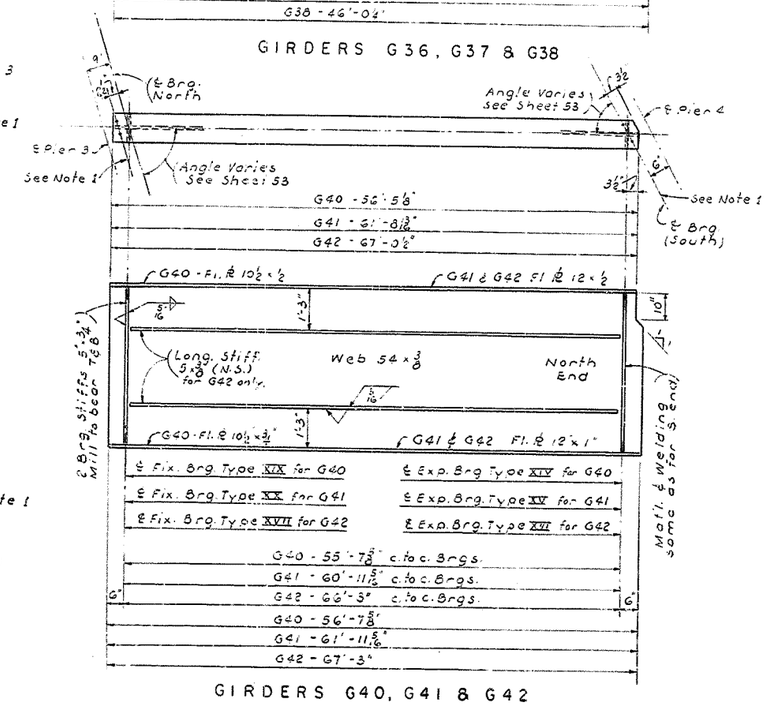
GIRDERS G36, G37 & G38



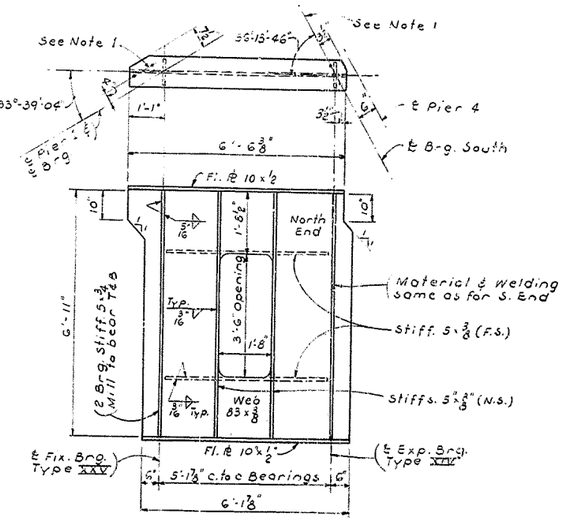
GIRDER G39



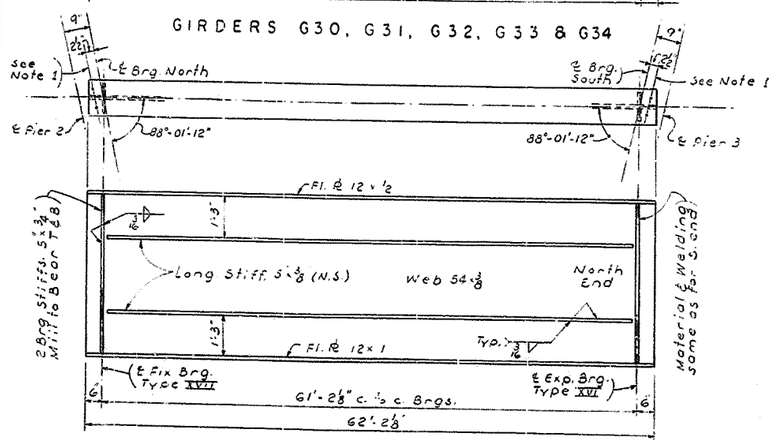
GIRDERS G30, G31, G32, G33 & G34



GIRDERS G40, G41 & G42



GIRDER G57



GIRDER G35

TABLE 'A'

Girder	A	Bottom Flange Pl. B	Bottom Flange Pl. C	Top Fl. Pl. D
G30	63'-9 9/16"	12" x 1 3/8" x 30'-0"	12" x 1" x 17'-4 33/32"	12" x 1/2" x 66'-9 9/16"
G31	63'-3 1/2"	do.	12" x 1" x 17'-1 5/8"	12" x 1/2" x 66'-3 1/2"
G32	62'-8 15/16"	do.	12" x 1" x 16'-10 15/32"	12" x 1/2" x 65'-8 15/16"
G33	62'-2 11/16"	do.	12" x 1" x 16'-7 5/8"	12" x 1/2" x 65'-2 11/16"
G34	61'-8 3/8"	12" x 1 3/8" x 30'-0"	12" x 1" x 16'-4 3/16"	12" x 1/2" x 62'-8 3/8"

Note 1: For location of holes see Sheets 71 to 77.

Work this sheet with Sheets 53 to 78

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

SHEET 59 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

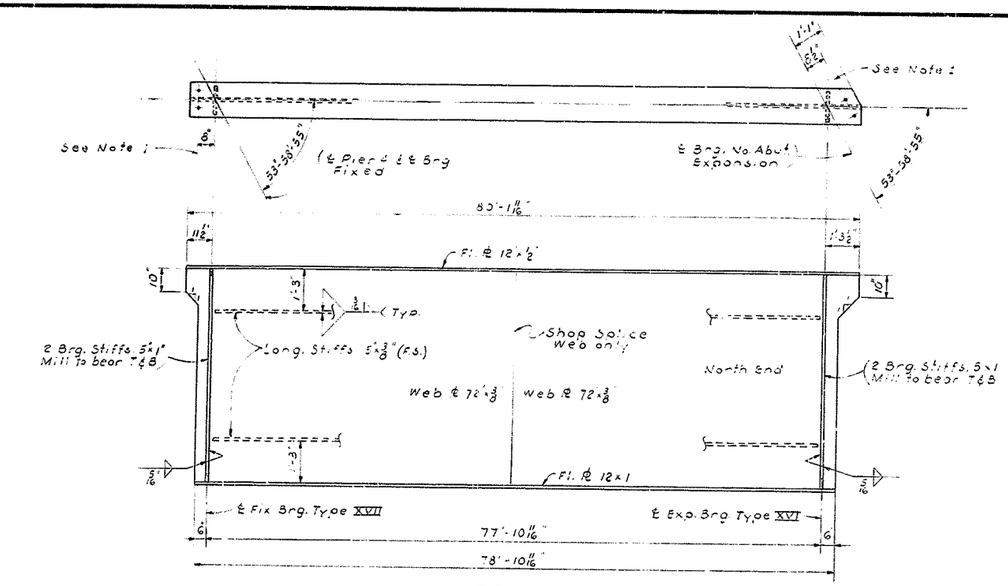
NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
STRUCTURAL STEEL DETAILS

STATION 17+00.85 — PROJECT NO. I65-6(9)134

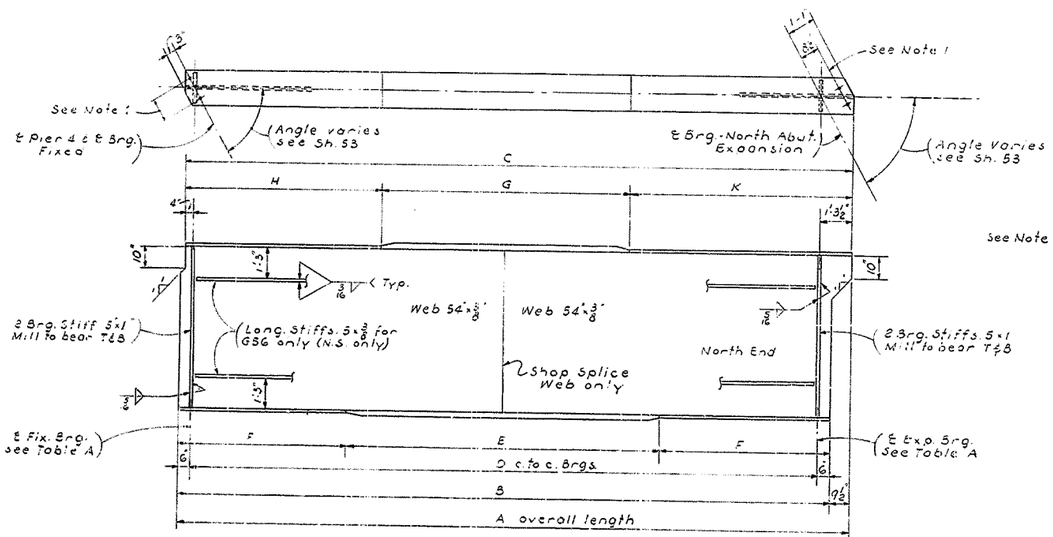
BRIDGE NUMBER: — DRAWING NO. 14843 — SHEET

DESIGNED BY MDR — CHECKED BY P.R. — DATE
DETAILED BY R.R. — CHECKED BY P.R. — DATE
TRACED BY T.A.B. — CHECKED BY P.R. — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



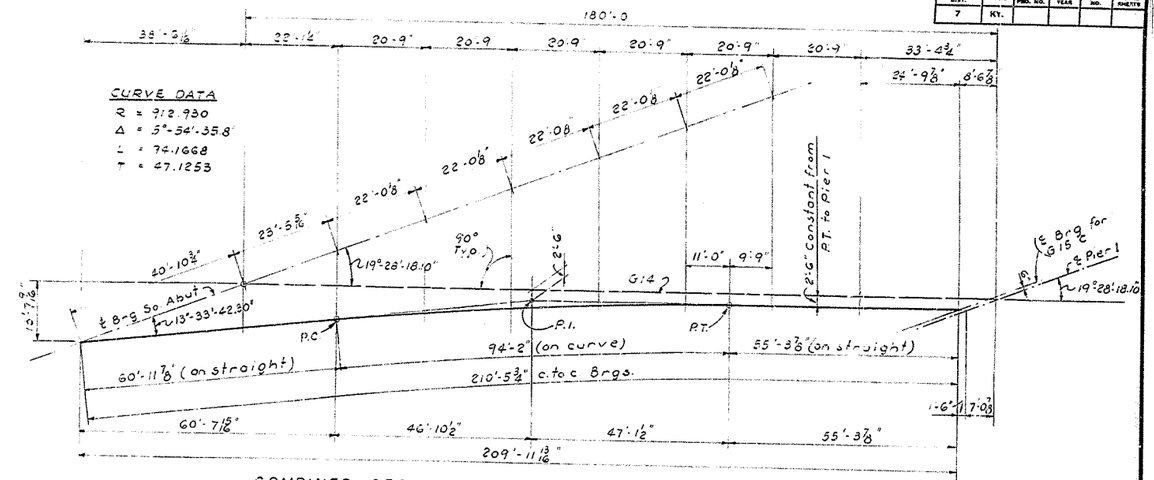
GIRDER G43



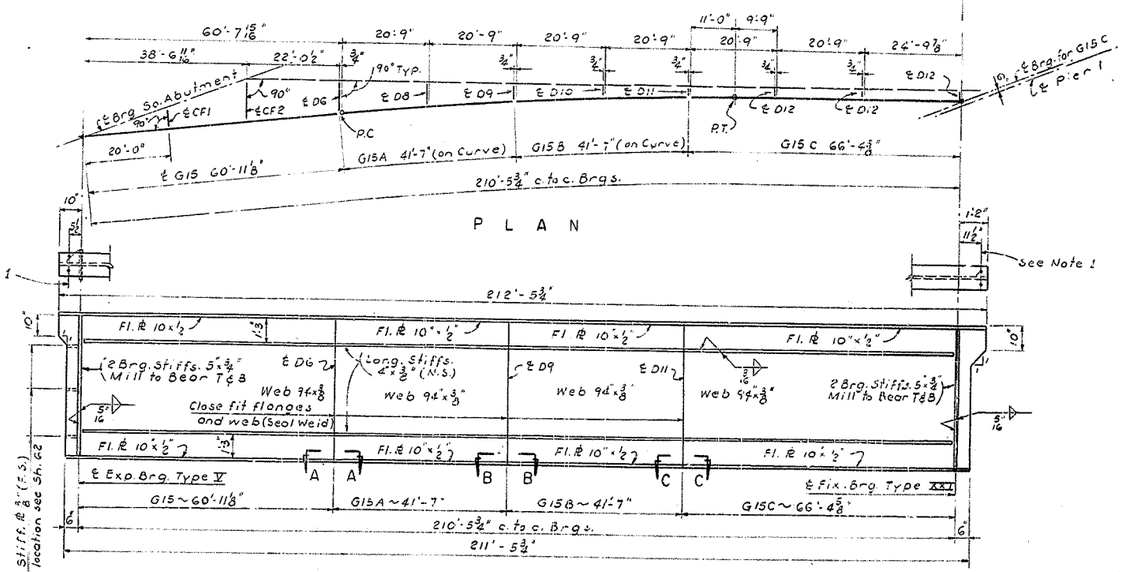
GIRDERS G44 to G56

TABLE 'A'

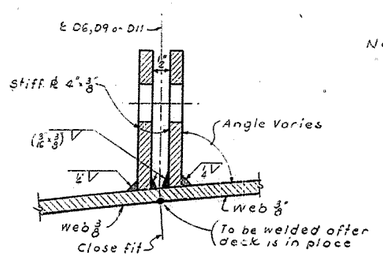
GIRDER	A	B	C	O	BOTTOM FLANGE PLS. E	BOTTOM FLANGE PLS. F	TOP FLANGE PLATES G	TOP FLANGE PLATES H	TOP FLANGE PLATES K	FIX. BRG. TYPE AT SOUTH END	EXP. BRG. TYPE AT NORTH END
G44	80'-0 3/8"	79'-3 1/16"	79'-10 7/16"	78'-3 1/16"	18" x 1 5/8" x 45'-0"	12" x 1" x 17'-1 23/32"	12" x 5/8" x 21'-0"	12" x 1/2" x 28'-11 11/32"	12" x 1/2" x 29'-11"	XVII	XVI
G45	80'-5"	79'-7 1/2"	80'-3"	78'-7 1/2"	18" x 1 5/8" x 46'-0"	12" x 1" x 16'-9 3/4"	12" x 5/8" x 24'-0"	12" x 1/2" x 27'-7 3/4"	12" x 1/2" x 28'-7 1/4"	do.	do.
G46	80'-9 5/8"	80'-0"	80'-7 1/2"	79'-0"	18" x 1 5/8" x 46'-0"	12" x 1" x 17'-0"	12" x 5/8" x 24'-0"	12" x 1/2" x 27'-10"	12" x 1/2" x 28'-9 1/2"	do.	do.
G47	81'-2"	80'-4 1/2"	81'-0"	79'-4 1/2"	18" x 1 5/8" x 46'-0"	12" x 1" x 17'-2 1/4"	12" x 5/8" x 24'-0"	12" x 1/2" x 28'-0 1/4"	12" x 1/2" x 28'-11 1/2"	do.	do.
G48	81'-6 7/8"	80'-9 1/16"	81'-4 9/16"	79'-9 1/16"	18" x 1 5/8" x 48'-0"	12" x 1" x 16'-4 13/32"	12" x 3/4" x 34'-0"	12" x 1/2" x 23'-0 5/8"	12" x 1/2" x 24'-2 1/4"	do.	do.
G49	81'-11 3/8"	81'-1 13/16"	81'-9 1/2"	80'-1 3/8"	18" x 1 5/8" x 52'-0"	12" x 1" x 14'-6 11/16"	12" x 11/8" x 40'-0"	12" x 1/2" x 15'-10 1/2"	12" x 1/2" x 16'-10 5/8"	do.	do.
G50	82'-2 13/16"	81'-5 5/8"	82'-0 13/16"	80'-5 5/8"	18" x 1 1/4" x 51'-0"	12" x 1" x 12'-2 31/32"	12" x 7/8" x 41'-0"	12" x 1/2" x 20'-0 3/8"	12" x 1/2" x 21'-0 3/8"	do.	do.
G51	82'-8 1/4"	81'-10 3/8"	82'-6 1/2"	80'-10 3/4"	18" x 1 1/8" x 49'-0"	12" x 1" x 16'-5 3/8"	12" x 3/4" x 35'-0"	12" x 1/2" x 23'-3 3/8"	12" x 1/2" x 24'-2 7/8"	do.	do.
G52	83'-1 7/16"	82'-4 3/4"	82'-11 11/16"	81'-4 3/4"	18" x 1 1/8" x 48'-0"	12" x 1" x 17'-2 3/32"	12" x 3/4" x 32'-0"	12" x 1/2" x 25'-0 1/8"	12" x 1/2" x 25'-[illegible]	do.	do.
G53	83'-7 3/8"	82'-9 9/16"	83'-5 3/16"	81'-9 1/16"	18" x 1 1/8" x 49'-0"	12" x 1" x 16'-10 3/32"	12" x 3/4" x 33'-0"	12" x 1/2" x 24'-8 7/8"	12" x 1/2" x 25'-8 5/8"	do.	do.
G54	84'-0 3/4"	83'-3 1/4"	83'-10 3/4"	82'-3 1/4"	18" x 1 1/8" x 49'-0"	12" x 1" x 17'-1 5/8"	12" x 3/4" x 33'-0"	12" x 1/2" x 24'-11 3/8"	12" x 1/2" x 25'-11 3/8"	do.	do.
G55	84'-6 3/8"	83'-8 3/8"	84'-4 3/8"	82'-8 3/8"	18" x 1 1/8" x 49'-0"	12" x 1" x 17'-4 7/8"	12" x 3/4" x 33'-0"	12" x 1/2" x 25'-2 1/2"	12" x 1/2" x 26'-1 1/8"	do.	do.
G56	85'-0 1/4"	84'-2 7/16"	84'-10 1/4"	83'-2 7/16"	18" x 1 1/8" x 48'-0"	12" x 1" x 18'-1 3/32"	12" x 3/4" x 36'-0"	12" x 1/2" x 23'-11 5/16"	12" x 1/2" x 24'-10 3/4"	XVII	XVI



COMBINED GEOMETRY FOR GIRDERS G15 TO G15C



ELEVATION OF GIRDERS G15, G15A, G15B & G15C
(Developed)



SECTIONS AA, BB, CC

Note 1: For location of holes see Sheets 71 to 77

Work this Sheet with Sheets 53 to 78

SHEET 60 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY OVER BROOK ST. & WALNUT ST.

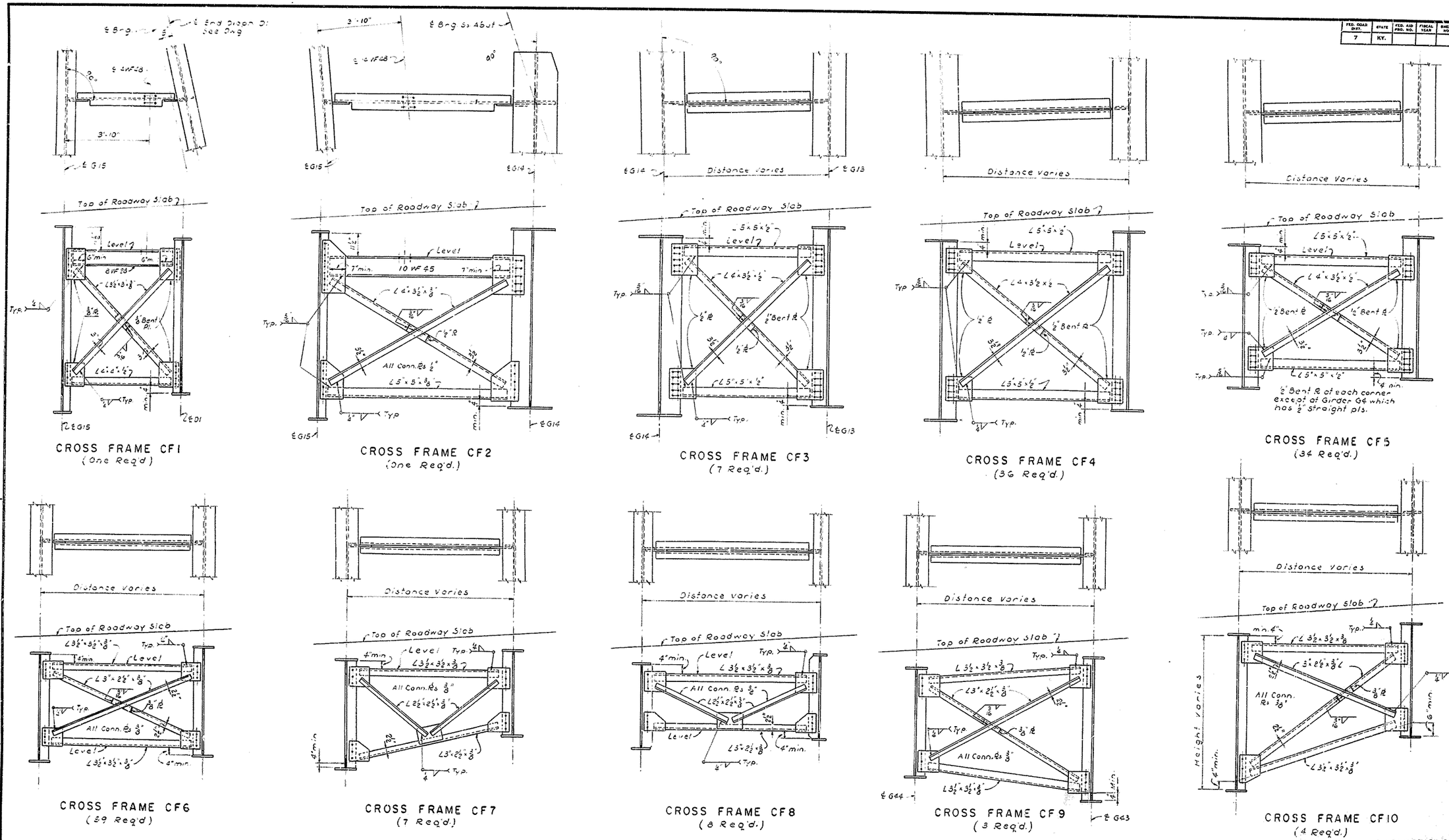
STRUCTURAL STEEL DETAILS

STATION 17+00.85 — PROJECT NO. I65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — SHEET

DESIGNED BY MDR — CHECKED BY PR — DATE
DETAILED BY RR — CHECKED BY PR — DATE
TRACED BY TAB — CHECKED BY PR — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



CROSS FRAME CF1 (One Req'd)

CROSS FRAME CF2 (One Req'd.)

CROSS FRAME CF3 (7 Req'd.)

CROSS FRAME CF4 (36 Req'd.)

CROSS FRAME CF5 (34 Req'd.)

CROSS FRAME CF6 (59 Req'd)

CROSS FRAME CF7 (7 Req'd.)

CROSS FRAME CF8 (8 Req'd.)

CROSS FRAME CF9 (3 Req'd.)

CROSS FRAME CF10 (4 Req'd.)

NOTE: All Field connections shall be 7/8" ϕ High Strength Steel Bolts.

Work this Sheet with Sheets 53 to 78

SHEET 61 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

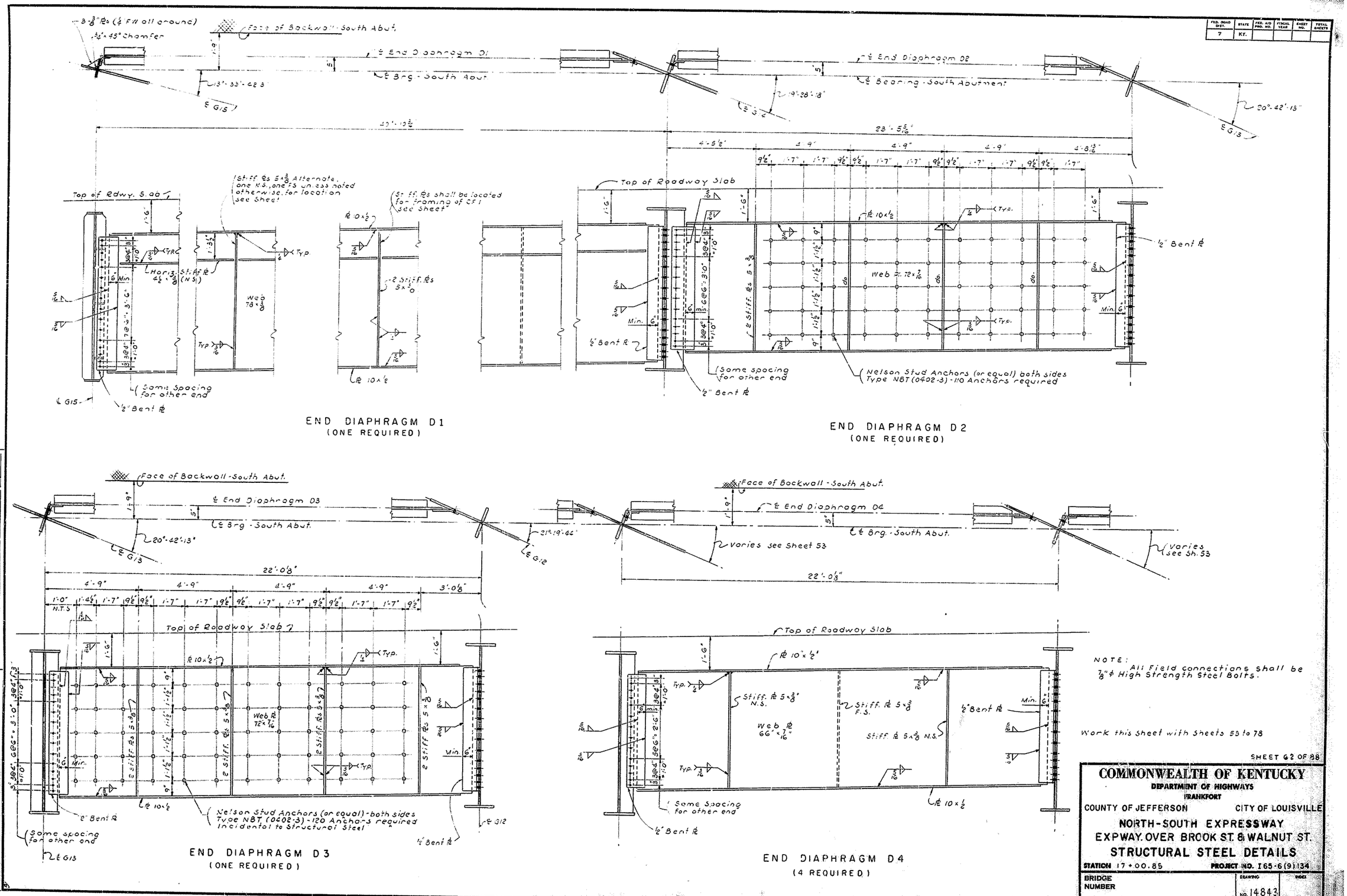
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY OVER BROOK ST. & WALNUT ST.
STRUCTURAL STEEL DETAILS

STATION 17+00.85 — PROJECT NO. 165-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY M.D.R. CHECKED BY P.R. DATE
DETAILED BY R.C. CHECKED BY P.R. DATE
TRACED BY T.A.B. CHECKED BY P.R. DATE
REVISED DATE
REVISED DATE
REVISED DATE



FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

NOTE: All Field connections shall be ⅞" ϕ High Strength Steel Bolts.

Work this sheet with Sheets 53 to 78

SHEET 62 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
STRUCTURAL STEEL DETAILS

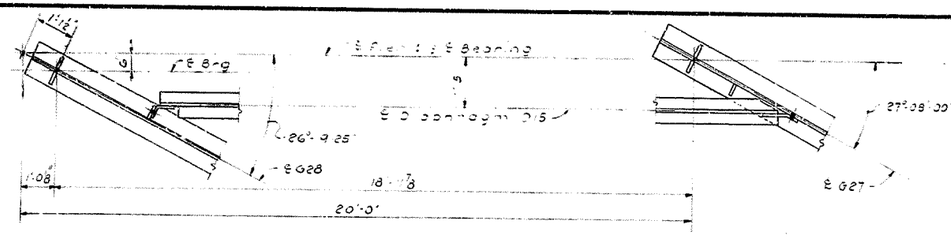
STATION 17+00.85 — PROJECT NO. I65-6(9)134

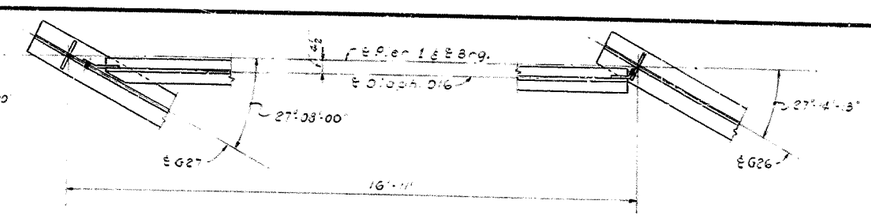
BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

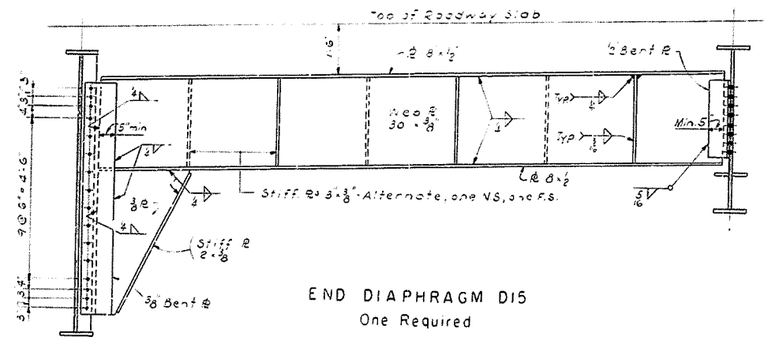
DESIGNED BY HDR — CHECKED BY P.R. — DATE
DETAILED BY F.M.C. — CHECKED BY P.R. — DATE
TRACED BY T.A.B. — CHECKED BY P.R. — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

DETAIL D
END DIAPHRAGM D5
6 Required
DIAPHRAGM D13
6 Required

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEARS	SHEET NO.	TOTAL SHEETS
7	KY.				







END DIAPHRAGM D15
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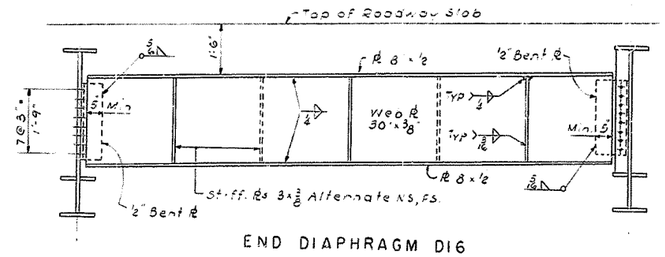

END DIAPHRAGM D16
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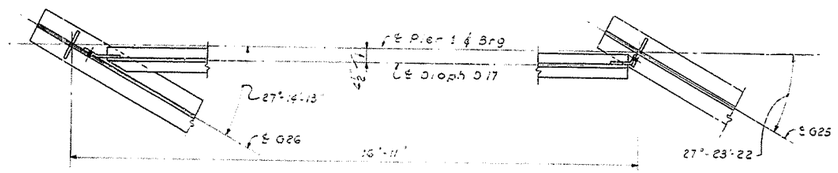

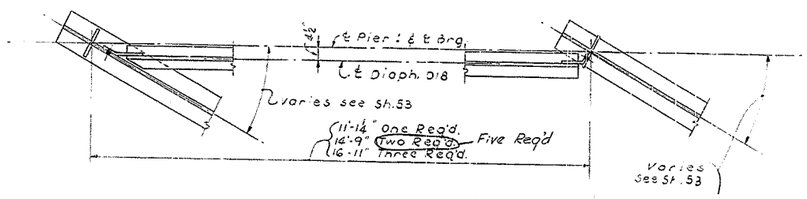

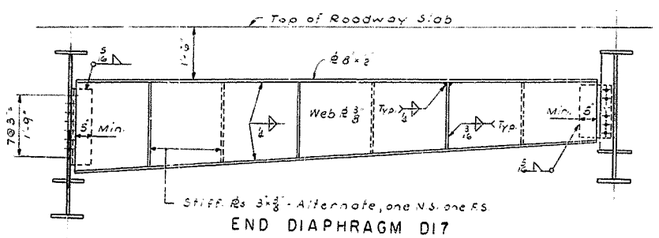

END DIAPHRAGM D17
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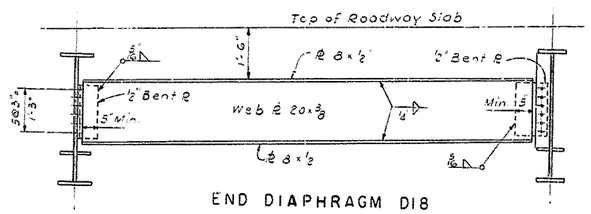
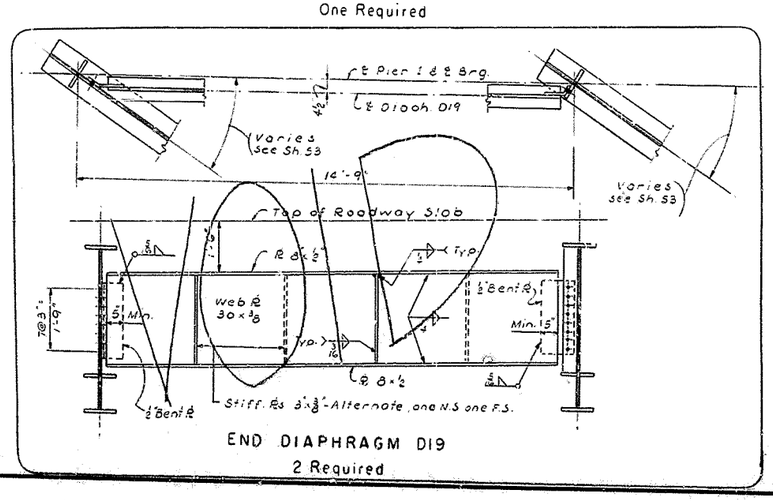


END DIAPHRAGM D18
6 Required
-9

NOTE : Decrease in weight of structural steel due to changing D19 & D20 to D18 = 612 lbs.



END DIAPHRAGM D19
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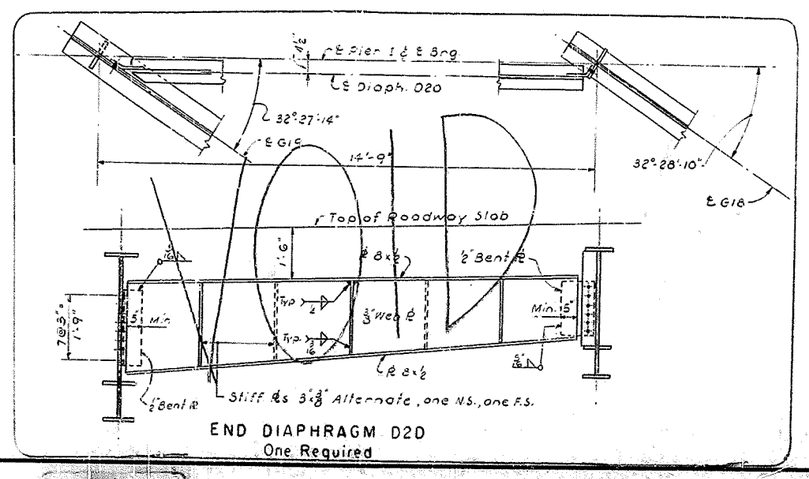


END DIAPHRAGM D20
One Required

NOTE : All Field connections shall be 7/8" ϕ High Strength Steel Bolts.

Work this Sheet with Sheets 53 to 78.

SHEET 64 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
STRUCTURAL STEEL DETAILS

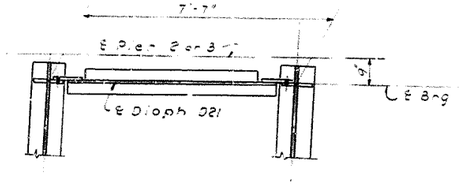
STATION 17+00.85 — PROJECT NO. 65-6(9) 134

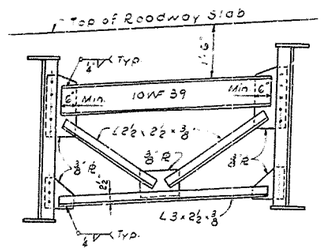
BRIDGE NUMBER — DRAWING NO. 14843 — SHEET

REVISED Changed D19 & D20 to D18 DATE 6/11/64 — REVISED — DATE — REVISED — DATE

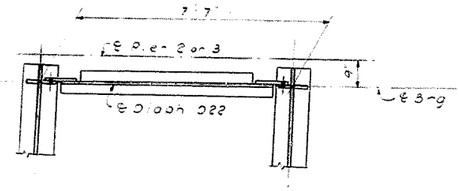
DESIGNED BY M.D.R. — CHECKED BY P.R. — DATE
DETAILED BY F.H.G. — CHECKED BY P.R. — DATE
TRACED BY T.A.B. — CHECKED BY P.R. — DATE

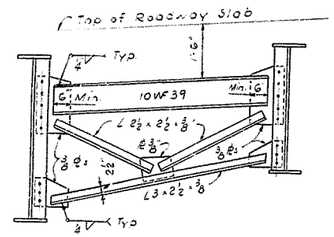
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
7	KY.			



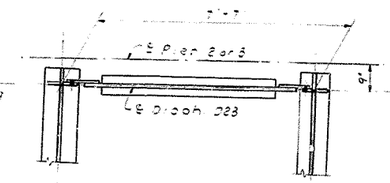


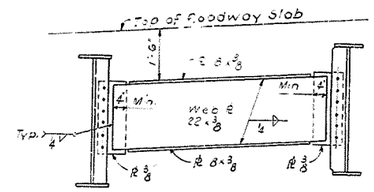
END DIAPHRAGM D21
16 Required





END DIAPHRAGM D22
2 Required





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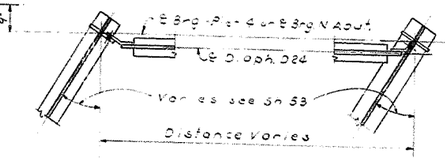

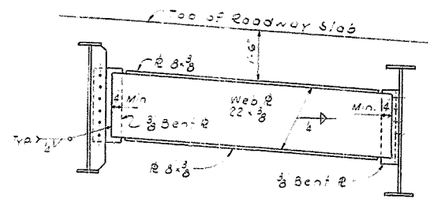

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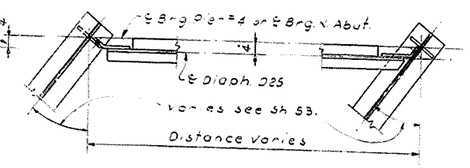
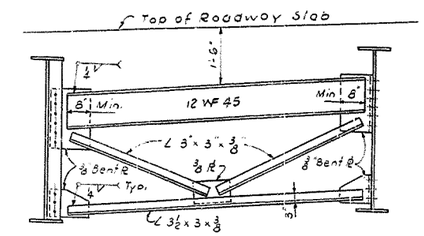
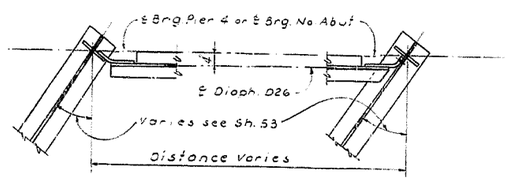
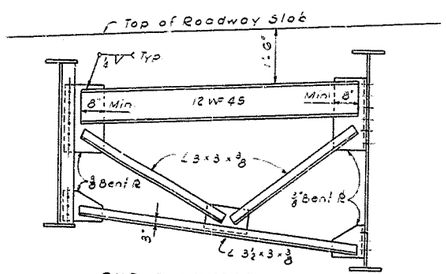


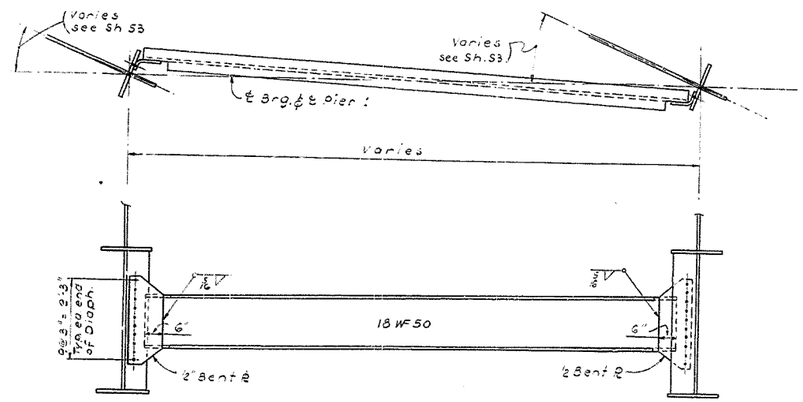


END DIAPHRAGM D25
26 Required

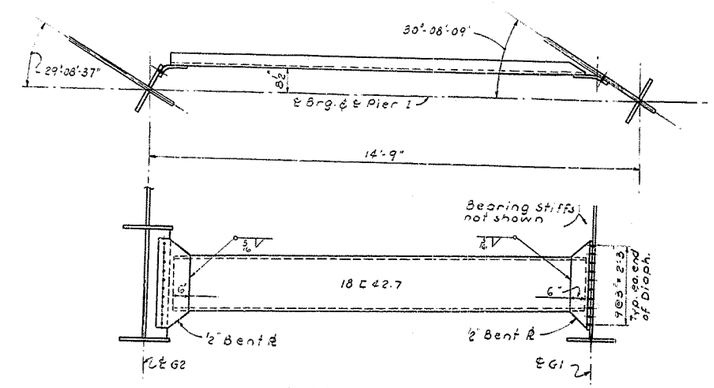




END DIAPHRAGM D26
2 Required



DIAPHRAGM D27
11 Required



DIAPHRAGM D28
One Required

NOTE:
All Field connections shall be ⅞" ϕ High Strength Steel Bolts.

SHEET 65 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY OVER BROOK ST & WALNUT ST.
STRUCTURAL STEEL DETAILS

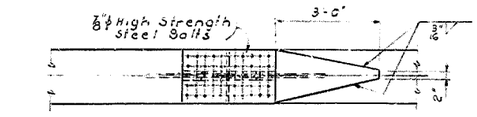
STATION 17+00.85 — PROJECT NO. 165-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

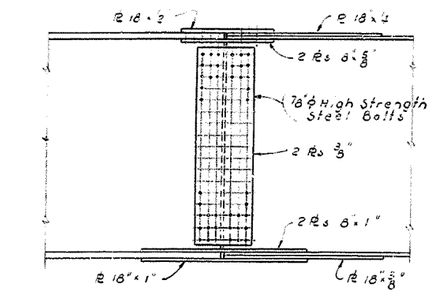
Work this Sheet with Sheets 53 to 78

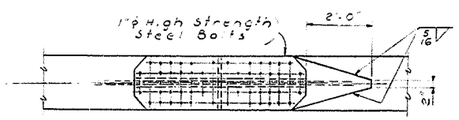
DESIGNED BY M.D.R. CHECKED BY P.R. DATE
DETAILED BY F.M.L. CHECKED BY P.R. DATE
TRACED BY T.A.B. CHECKED BY P.R. DATE
REVISED DATE
REVISED DATE
REVISED DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



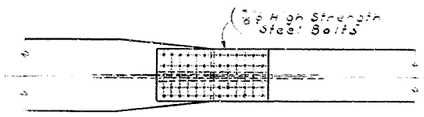
TOP FLANGE



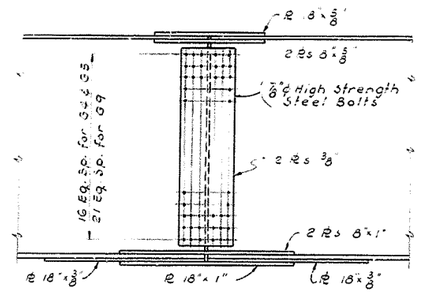


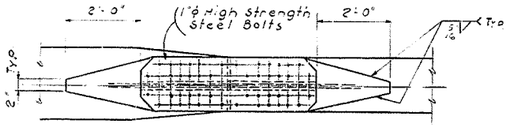
BOTTOM FLANGE

GIRDERS G1, G2 & G3



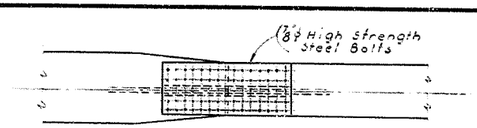
TOP FLANGE



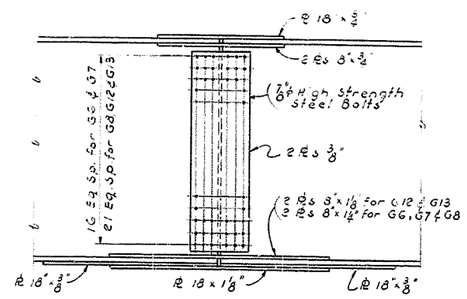


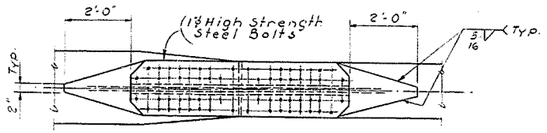
BOTTOM FLANGE

GIRDERS G4, G5 & G9



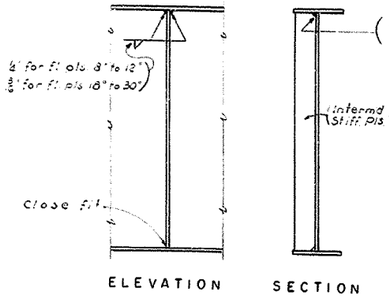
TOP FLANGE





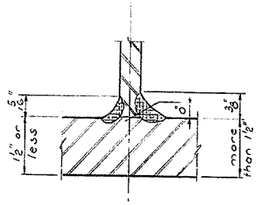
BOTTOM FLANGE

GIRDERS G6, G7, G8, G12 & G13



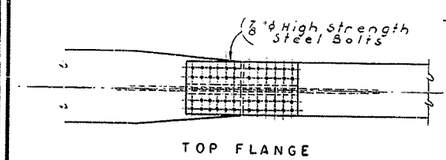
ELEVATION SECTION

TYPICAL INTERMEDIATE STIFFENER DETAILS

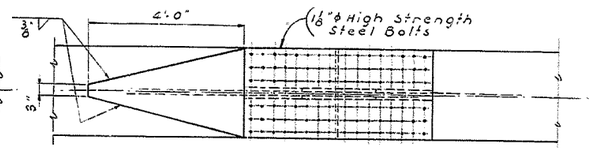


FLANGE WELD

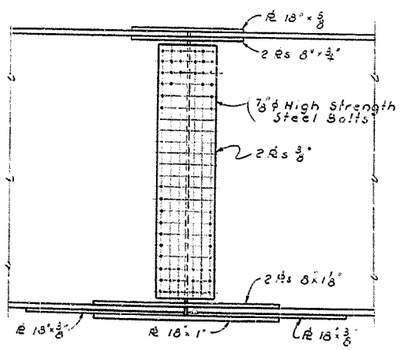
Flange to web weld shall be a submerged arc fillet weld in the flat position. Parts are to be assembled with edge of web plate tight against the flange pl. before welding.

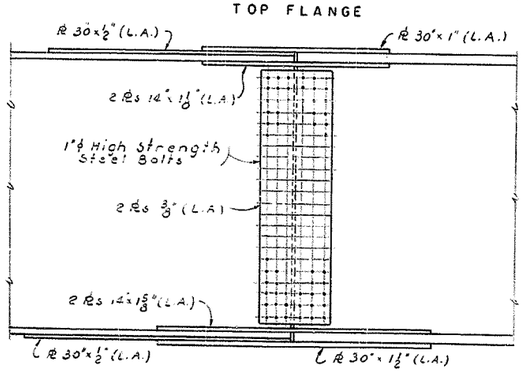


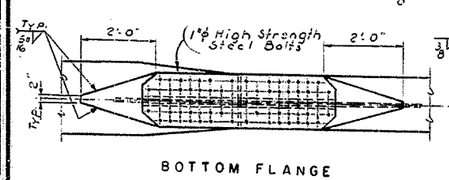
TOP FLANGE



TOP FLANGE

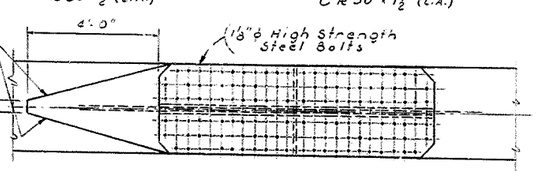






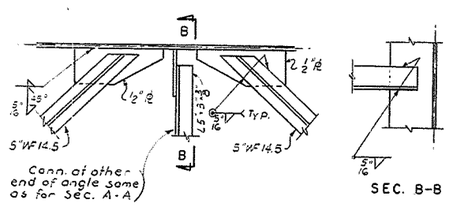
BOTTOM FLANGE

GIRDERS G10 & G11

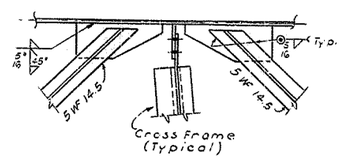


BOTTOM FLANGE

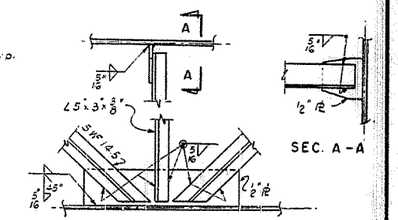
GIRDER G14



BOTTOM LATERAL BRACING BETWEEN CROSS FRAMES (AT STIFFENERS)

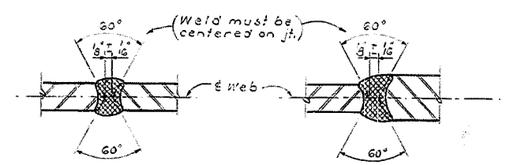


AT CROSS FRAME

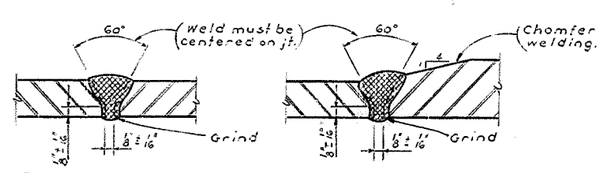


BETWEEN CROSS FRAMES (Between Stiffeners)

BOTTOM LATERAL BRACING



EQUAL WEBS UNEQUAL WEBS



EQUAL FLANGES UNEQUAL FLANGES

SHOP SPLICES

Work this sheet with sheets 53 to 78

SHEET 66 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY OVER BROOK ST. & WALNUT ST.
STRUCTURAL STEEL DETAILS

STATION 17+00.85 PROJECT NO. I65-6(9)134

BRIDGE NUMBER | DRAWING NO. 14843 | INDEX

DESIGNED BY MDR	CHECKED BY P.R.	DATE	REVISED
DETAILED BY E.F.V.	CHECKED BY P.R.	DATE	REVISED
TRACED BY T.A.B.	CHECKED BY P.R.	DATE	REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

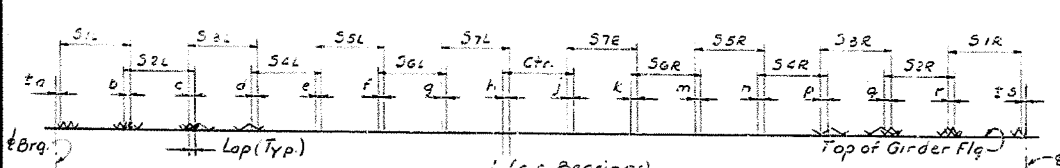
SPIRAL SPACING

GIRDER	L	a	S_{1L} **	b	S_{2L} ***	c	S_{3L} ***	d	S_{4L}	e	S_{5L}	f	S_{6L}	g	S_{7L}
G1	119'-6 5/8"	+ 7/16"	41 Sp.@4"=13'-8"	3"	33 Sp.@4½"=12'-[illegible]	3"	20 Sp.@7"=11'-8"	4"	16 Sp.@9"=12'-0"	5"	13 Sp.@11"=11'-11"	6"	—	—	—
G2	123'-2½"	+ ½"	41 Sp.@4"=13'-8"	3"	32 Sp.@4½"=12'-0"	3"	20 Sp.@7"=11'-8"	4"	16 Sp.@9"=12'-0"	5"	15 Sp.@11"=13'-9"	6"	—	—	—
G3	126'-11¼"	- ¾"	45 Sp.@4"=15'-0"	3"	32 Sp.@4½"=12'-0"	3"	21 Sp.@7"=12'-3"	4"	16 Sp.@9"=12'-0"	5"	15 Sp.@11"=13'-9"	6"	—	—	—
G4	130'-8⅜"	—	39 Sp.@4"=13'-0"	3"	31 Sp.@5"=12'-11"	3"	23 Sp.@7"=13'-5"	4	18 Sp.@9"=13'-6"	5	14 Sp.@12"=14'-0"	6"	—		—
G5	134'-5 13/16"	—	42 Sp.@4"=14'-0"	3"	33 Sp.@5"=13'-9"	3"	23 Sp.@7"=13'-5"	4"	18 Sp.@9"=13'-6"	5	14 Sp.@12"=14'-0"	6"	—	—	—
G6	138'-3⅝"	- ⅜"	42 Sp.@4"=14'-0"	3"	34 Sp.@5"=14'-2"	3	24 Sp.@7"=14'-0"	4"	18 Sp.@9"=13'-6"	5"	15 Sp.@12"=15'-0"	6"	—	—	—
G7	142'-1¾"	- ¼"	33 Sp.@4"=11'-0"	2½"	30 Sp.@5"=12'-6"	3"	22 Sp.@6½"=11'-11"	3½"	18 Sp.@8"=12'-0"	4½"	15 Sp.@10"=12'-6"	5½"	12 Sp.@1'-1"=13'-0"	6"	—
G8	146'-2 1/16"	—	36 Sp.@4"=12'-0"	2½"	31 Sp.@5"=12'-11"	3"	24 Sp.@6½"=13'-0"	3½"	19 Sp.@8"=12'-8"	4½"	15 Sp.@9½"=11'-10½"	5½"	13 Sp.@11½"=12'-5½"	6"	—
G9	150'-10"	—	39 Sp.@4"=13'-0"	3"	26 Sp.@6"=13'-0"	3½"	22 Sp.@7½"=13'-9"	4"	17 Sp.@9"=12'-9"	5½"	13 Sp.@12"=13'-0"	6"	9 Sp.@1'-4"=12'-0"	6"	—
G10	155'-6¼"	- ¼"	39 Sp.@4"=13'-0"	3"	35 Sp.@5"=14'-7"	3½"	22 Sp.@7½"=13'-9"	4"	18 Sp.@9"=13'-6"	5½"	13 Sp.@12"=13'-0"	6"	9 Sp.@1'-4"=12'-0"	6"	—
G11	160'-2⅜"	- ¼"	39 Sp.@4"=13'-0"	3"	35 Sp.@5"=14'-7"	3½"	22 Sp.@7½"=13'-9"	4"	18 Sp.@9"=13'-6"	5½"	14 Sp.@12"=14'-0"	6"	10 Sp.@1'-4"=13'-4"	6"	—
G12	164'-11 9/16"	—	39 Sp.@4"=13'-0"	3"	30 Sp.@5"=12'-6"	3½"	22 Sp.@7½"=13'-9"	4"	18 Sp.@9"=13'-6"	5½"	13 Sp.@12"=13'-0"	6"	9 Sp.@1'-4"=12'-0"	6"	—
G13	169'-8⅝"	- ⅜"	39 Sp.@4"=13'-0"	3"	26 Sp.@6"=13'-0"	3½"	22 Sp.@7½"=13'-9"	4"	18 Sp.@9"=13'-6"	5½"	13 Sp.@12"=13'-0"	6"	10 Sp.@1'-4"=13'-4"	6	—
G14	180'-0"	—	20 Sp.@7"=11'-8"*	3"	35 Sp.@4"=11'-8"	2½"	28 Sp.@5"=11'-8"	3"	26 Sp.@6"=13'-0"	4"	16 Sp.@9"=12'-0"	5½"	9 Sp.@1'-4"=12'-0"	6"	9 Sp.@1'-4"=12'-0"
G15	60'-11⅛"	+ 9/16"	19 Sp.@6"=9'-6"	3"	16 Sp.@7"=9'-4"	4"	12 Sp.@10"=10'-0"	6"	—	—	—	—	—	—	—
G15A	41'-7"	+ 3½"	12 Sp.@1'-2"=14'-0"	6"	—	—	—	—	—	—	—	—	—	—	—
G15B	41'-7"	+ 3½"	12 Sp.@1'-2"=14'-0"	6"	—	—	—	—	—	—	—	—	—	—	—
G15C	66'-4⅝"	+ 13/16"	9 Sp.@1'-4"=12'-0"	6"	9 Sp.@1'-4"=12'-0"	6"	9 Sp.@1'-4"=12'-0"	6"	—	—	—	—	—	—	—
G16	18'-3½"	+ 1¾"	—	—	—	—	—	—	—	—	—	—	—	—	—
G17	35'-9 7/16"	+ 7/32"	25 Sp.@6"=12'-6"*	3"	—	—	—	—	—	—	—	—	—	—	—
G18	53'-3 5/16"	- 11/32"	23 Sp.@6"=11'-6"*	2½"	31 Sp.@4"=10'-4	2½"	—	—	—	—	—	—	—	—	—
G19	70'-9¼"	+ 5/8"	47 Sp.@4"=15'-8"	2"	38 Sp.@4½"=14'-3"	3"	—	—	—	—	—	—	—	—	—
G20	88'-3 3/16"	- 13/32"	20 Sp.@7"=11'-8"*	3"	33 Sp.@4"=11'-0"	2½"	27 Sp.@5"=11'-3"	3"	19 Sp.@7"=11'-1	3"	—	—	—	—	—
G21	105'-9⅜"	- 7/16"	42 Sp.@4"=14'-0"	2½"	34 Sp.@5"=14'-2"	3½"	26 Sp.@6"=13'-0"	4"	17 Sp.@9"=12'-9"	4"	—	—	—	—	—
G22	17'-7¾"	+ 7/8"	—	—	—	—	—	—	—	—	—	—	—	—	—
G23	32'-4⅜"	- 15/16"	19 Sp.@7"=11'-1"*	3"	—	—	—	—	—	—	—	—	—	—	—
G24	47'-0⅝"	+ 13/16"	28 Sp.@6"=14'-0"*	2½"	26 Sp.@4½"=9'-9"	2"	—	—	—	—	—	—	—	—	—
G25	61'-9 1/16"	- 15/32"	22 Sp.@7"=12'-10"*	3"	35 Sp.@4"=11'-8"	2½"	14 Sp.@6"=7'-0"	3'	—	—	—	—	—	—	—
G26	76'-5 7/16"	- 7/32"	34 Sp.@4"=11'-4"	2"	31 Sp.@4½"=11'-7½"	2½"	23 Sp.@6"=11'-6"	4"	—	—	—	—	—	—	—
G27	91'-2 1/16"	- 15/32"	24 Sp.@7"=14'-0"*	3"	33 Sp.@4½"=12'-4½"	3"	26 Sp.@6½"=14'-1"	4"	—	—	—	—	—	—	—
G28	107'-6 1/16"	+ 1/32"	23 Sp.@6"=11'-6"	3"	24 Sp.@6½"=13'-0"	3"	24 Sp.@7"=14'-0"	4"	15 Sp.@9"=11'-3"	4	—	—	—	—	—
G29	64'-3 13/16"	+ 29/32"	20 Sp.@6"=10'-0"*	2½"	35 Sp.@4"=11'-8"	2½"	24 Sp.@5½"=11'-0"	4"	—	—	—	—	—	—	—
G30	63'-9 7/16"	- 7/32"	28 Sp.@6"=14'-0"*	2½"	32 Sp.@4½"=12'-0"	3½"	—	—	—	—	—	—	—	—	—
G31	63'-3¼"	+ 1/8"	28 Sp.@6"=14'-0"*	2½"	32 Sp.@4½"=12'-0"	3½"	—	—	—	—	—	—	—	—	—
G32	62'-8 15/16"	- 17/32"	27 Sp.@6"=13'-6"*	2½"	32 Sp.@4½"=12'-0"	3½"	—	—	—	—	—	—	—	—	—
G33	62'-2 11/16"	- 5/32"	27 Sp.@6"=13'-6"*	2½"	32 Sp.@4½"=12'-0"	3½"	—	—	—	—	—	—	—	—	—
G34	61'-8⅜"	+ 3/16"	27 Sp.@6"=13'-6"*	2½"	32 Sp.@4½"=12'-0"	3½"	—	—	—	—	—	—	—	—	—
G35	61'-2⅛"	- 1/16"	35 Sp.@4"=11'-8"	2½"	29 Sp.@5"=12'-1"	3"	—	—	—	—	—	—	—	—	—
G36	34'-4 15/16"	- 1/32"	19 Sp.@7"=11'-1"*	3"	13 Sp.@6"=6'-6"	3"	—	—	—	—	—	—	—	—	—
G37	39'-8 9/16"	+ 7/32"	23 Sp.@6"=11'-6"*	3"	21 Sp.@5"=8'-9"	3"	—	—	—	—	—	—	—	—	—
G38	45'-0½"	+ 1/8"	18 Sp.@7"=10'-6"*	3"	27 Sp.@5½"=12'-4½"	3"	—	—	—	—	—	—	—	—	—
G39	50'-3 15/16"	+ 15/32"	26 Sp.@6"=13'-0"*	3"	30 Sp.@5"=12'-6"	3"	—	—	—	—	—	—	—	—	—
G40	55'-7⅝"	- 3/16"	28 Sp.@4"=9'-4"	2½"	22 Sp.@5"=9'-2"	3"	17 Sp.@7"=9'-11"	3	—	—	—	—	—	—	—
G41	60'-11 5/16"	+ 21/32"	32 Sp.@4"=10'-8"	2½"	25 Sp.@5"=10'-5"	3"	17 Sp.@7"=9'-11"	3	—	—	—	—	—	—	—
G42	66'-3"	—	32 Sp.@4"=10'-8"	3"	33 Sp.@5"=13'-9"	3"	14 Sp.@8"=9'-4"	3'	—	—	—	—	—	—	—
G43	77'-10 11/16"	+ 11/32"	28 Sp.@6"=14'-0"	3"	24 Sp.@7"=14'-0"	4"	14 Sp.@10"=11'-8"	4"	—	—	—	—	—	—	—
G44	78'-3 1/16"	- 15/32"	29 Sp.@4"=9'-8"	2"	31 Sp.@4½"=11'-7½"	2½"	19 Sp.@5½"=8'-8½"	3½"	15 Sp.@8"=10'-0"	4"	—	—	—	—	—
G45	78'-7½"	+ 1/4"	28 Sp.@4"=9'-4"	2"	31 Sp.@4½"=11'-7½"	2½"	20 Sp.@5½"=9'-2"	3½"	15 Sp.@8"=10'-0"	4"	—	—	—	—	—
G46	79'-0"	—	28 Sp.@4"=9'-4"	2"	31 Sp.@4½"=11'-7½"	2½"	19 Sp.@5½"=8'-8½"	3½"	16 Sp.@8"=10'-8"	4"	—	—	—	—	—
G47	79'-4½"	+ 1/4"	28 Sp.@4"=9'-4"	2"	32 Sp.@4½"=12'-0"	2½"	20 Sp.@5½"=9'-2"	3½"	15 Sp.@8"=10'-0"	4"	—	—	—	—	—
G48	79'-9 1/16"	+ 1/32"	28 Sp.@4"=9'-4"	2"	32 Sp.@4½"=12'-0"	2½"	19 Sp.@5½"=8'-8½"	3½"	16 Sp.@8"=10'-8"	4"	—	—	—	—	—
G49	80'-1⅝"	+ 5/16"	28 Sp.@4"=9'-4"	2"	33 Sp.@4½"=12'-4½"	2½"	20 Sp.@5½"=9'-2"	3½"	15 Sp.@8"=10'-0"	4"	—	—	—	—	—
G50	80'-5 5/16"	- 27/32"	24 Sp.@7"=14'-0"*	3"	33 Sp.@4½"=12'-4½"	2½"	19 Sp.@6"=9'-6"	3½"	8 Sp.@8"=5'-4"	4"	—	—	—	—	—
G51	80'-10⅜"	+ 3/8"	24 Sp.@7"=14'-0"*	3"	32 Sp.@4½"=12'-0"	2½"	20 Sp.@6"=10'-0"	3½"	8 Sp.@8"=5'-4	4"	—	—	—	—	—
G52	81'-4 3/16"	- 13/32"	24 Sp.@7"=14'-0"*	3"	31 Sp.@4½"=11'-7½"	2½"	20 Sp.@6"=10'-0"	3½"	9 Sp.@8"=6'-0"	4"	—	—	—	—	—
G53	81'-9 1/16"	+ 11/32"	24 Sp.@7"=14'-0"*	3"	31 Sp.@4½"=11'-7½"	2½"	19 Sp.@6"=9'-6"	3½"	10 Sp.@8"=6'-8"	4"	—	—	—	—	—
G54	82'-3¼"	- 3/8"	24 Sp.@7"=14'-0"*	3"	32 Sp.@4½"=12'-0"	2½"	20 Sp.@6"=10'-0"	3½"	9 Sp.@8"=6'-0"	4"	—	—	—	—	—
G55	82'-8⅜"	- 1/16"	24 Sp.@7"=14'-0"*	3"	31 Sp.@4½"=11'-7½"	2½"	20 Sp.@6"=10'-0"	3½"	10 Sp.@8"=6'-8"	4"	—	—	—	—	—
G56	83'-2 7/16"	+ 9/32"	34 Sp.@4"=11'-4"	2"	27 Sp.@4½"=10'-1½"	2½"	21 Sp.@5½"=9'-7½"	3½"	17 Sp.@8"=11'-4"	4"	—	—	—	—	—
G57	5'-1⅞"	+ 1 3/16"	—	—	—	—	—	—	—	—	—	—	—	—	—

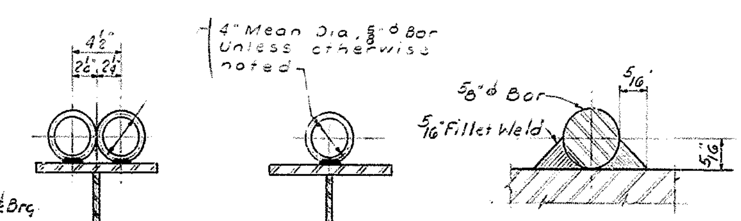
GIRDER	h	$S_{CTR.}$	j	S_{7R}	k	S_{6R}	m	S_{5R}	n	S_{4R}	p	S_{3R} ***	q	S_{2R} ***	r	S_{1R} **	s	GIRDER
G1	—	—	—	—	—	—	—	13 Sp.@11"=11'-11"	5"	16 Sp.@9"=12'-0"	4"	20 Sp.@7"=11'-8"	3"	26 Sp.@5½"=11'-11"	3"	33 Sp.@5"=13'-9"	+ 1/16"	G1
G2	—	—	—	—	—	—	—	14 Sp.@11"=12'-10"	5"	15 Sp.@9"=11'-3"	4"	18 Sp.@7"=10'-6"	3"	26 Sp.@5½"=11'-11"	3"	30 Sp.@5"=12'-6"	+4'-1"	G2
G3	—	—	—	—	—	—	—	15 Sp.@11"=13'-9"	5"	15 Sp.@9"=11'-3"	4"	18 Sp.@7"=10'-6"	3"	28 Sp.@5½"=12'-10"	3"	30 Sp.@5"=12'-6"	+4'-2"	G3
G4	—	—	—	—	—	—	—	12 Sp.@12"=12'-0"	5"	17 Sp.@9"=12'-9"	4"	22 Sp.@7"=12'-10"	3"	25 Sp.@6"=12'-6"	3"	30 Sp.@5"=12'-6"	+4'-3⅜"	G4
G5	—	—	—	—	—	—	—	13 Sp.@12"=13'-0"	5"	17 Sp.@9"=12'-9"	4"	21 Sp.@7"=12'-3"	3"	27 Sp.@6"=13'-6"	3"	31 Sp.@5"=12'-11"	+4'-4 13/16"	G5
G6	—	—	—	—	—	—	—	13 Sp.@12"=13'-0"	5"	17 Sp.@9"=12'-9"	4"	22 Sp.@7"=12'-10"	3"	27 Sp.@6"=13'-6"	3"	34 Sp.@5"=14'-2"	+4'-5"	G6
G7	—	—	—	—	—	9 Sp.@1'-1"=9'-9"	5½"	14 Sp.@10"=11'-8"	4½"	18 Sp.@8"=12'-0"	3½"	22 Sp.@6½"=11'-11"	3"	24 Sp.@5½"=11'-0"	2½"	29 Sp.@5"=12'-1"	+4'-6"	G7
G8	—	—	—	—	—	11 Sp.@11½"=10'-6½"	5½"	13 Sp.@9½"=10'-3½"	4½"	19 Sp.@8"=12'-8"	3½"	22 Sp.@6½"=11'-11"	3"	28 Sp.@5½"=12'-10"	2½"	29 Sp.@5"=12'-1"	+4'-7 1/16"	G8
G9	—	—	—	—	—	8 Sp.@1'-4"=10'-8"	6"	11 Sp.@12"=11'-0"	5½"	16 Sp.@9"=12'-0"	4"	22 Sp.@7½"=13'-9"	3½"	24 Sp.@6½"=13'-0"	3"	25 Sp.@6"=12'-6"	+4'-7"	G9
G10	—	—	—	—	—	9 Sp.@1'-4"=12'-0"	6"	11 Sp.@12"=11'-0"	5½"	18 Sp.@9"=13'-6"	4"	21 Sp.@7½"=13'-1½"	3½"	25 Sp.@6½"=13'-6½"	3"	24 Sp.@6"=12'-0"	+4'-9"	G10
G11	—	—	—	—	—	10 Sp.@1'-4"=13'-4"	6"	11 Sp.@12"=11'-0"	5½"	19 Sp.@9"=14'-3"	4"	22 Sp.@7½"=13'-9"	3½"	24 Sp.@6½"=13'-0"	3"	24 Sp.@6"=12'-0"	+4'-11"	G11
G12	—	10 Sp.@1'-4"=13'-4"	—	—	6	8 Sp.@1'-4"=10'-8"	6"	11 Sp.@12"=11'-0"	5½"	18 Sp.@9"=13'-6"	4	22 Sp.@7½"=13'-9"	3½"	24 Sp.@6½"=13'-0"	3"	23 Sp.@6"=11'-6"	+5'-1 1/16"	G12
G13	—	10 Sp.@1'-4"=13'-4"	—	—	6	9 Sp.@1'-4"=12'-0"	6"	13 Sp.@12"=13'-0"	5½"	16 Sp.@9"=12'-0"	4	22 Sp.@7½"=13'-9"	3½"	24 Sp.@6½"=13'-0"	3	25 Sp.@6"=12'-6"	+5'-3"	G13
G14	6"	10 Sp.@1'-4"=13'-4"	6"	9 Sp.@1'-4"=12'-0"	6"	11 Sp.@12"=11'-0"	5"	15 Sp.@10"=12'-6"	4½"	16 Sp.@9"=12'-0"	4"	19 Sp.@7"=11'-1"	3½"	24 Sp.@6"=12'-0"	3"	35 Sp.@4"=11'-8"	+5'-7"	G14
G15	—	5 Sp.@1'-4"=6'-8"	—	—	—	—	—	—	—	—	6"	11 Sp.@10"=9'-2"	4	19 Sp.@7"=11'-1"	3"	14 Sp.@6"=7'-0"	+ 3 9/16"	G15
G15A	—	12 Sp.@1'-2"=14'-0"	—	—	—	—	—	—	—	—	—	—	—	—	6"	12 Sp.@1'-2"=14'-0"	+ 3½"	G15A
G15B	—	12 Sp.@1'-2"=14'-0"	—	—	—	—	—	—	—	—	—	—	—	—	6"	12 Sp.@1'-2"=14'-0"	+ 3½"	G15B
G15C	—	—	—	—	—	—	—	—	—	—	—	7 Sp.@1'-3"=8'-9"	6"	9 Sp.@1'-4"=12'-0"	6"	9 Sp.@1'-4"=12'-0"	+ 13/16"	G15C
G16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	+ 1¾"	G16
G17	—	27 Sp.@8"=18'-0"	—	—	—	—	—	—	—	—	—	—	—	—	3"	25 Sp.@6"=12'-6"*	+ 7/32"	G17
G18	—	27 Sp.@5"=11'-3"	—	—	—	—	—	—	—	—	—	—	2½"	31 Sp.@4"=10'-4"	2½"	23 Sp.@6"=11'-6"*	- 11/32"	G18
G19	—	21 Sp.@6"=10'-6"	—	—	—	—	—	—	—	—	—	—	3"	38 Sp.@4½"=14'-3"	2"	47 Sp.@4"=15'-8"	+ 5/8"	G19
G20	—	20 Sp.@7"=11'-8"	—	—	—	—	—	—	—	19 Sp.@7"=11'-1"	3"	27 Sp.@5"=11'-3"	2½"	33 Sp.@4"=11'-0"	3"	20 Sp.@7"=11'-8"*	- 13/32"	G20
G21	—	—	—	—	—	—	—	—	—	17 Sp.@9"=12'-9"	4	26 Sp.@6"=13'-0"	3½"	34 Sp.@5"=14'-2"	2½"	42 Sp.@4"=14'-0"	- 7/16"	G21
G22	—	28 Sp.@7½"=17'-6"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	+ 7/8"	G22
G23	—	20 Sp.@6½"=10'-10"	—	—	—	—	—	—	—	—	—	—	—	—	3"	19 Sp.@7"=11'-1"*	- 15/16"	G23
G24	—	—	—	—	—	—	—	—	—	—	—	—	—	26 Sp.@4½"=9'-9"	2½"	28 Sp.@6"=14'-0"*	+ 13/16"	G24
G25	—	12 Sp.@9"=9'-0"	—	—	—	—	—	—	—	—	—	14 Sp.@6"=7'-0"	2½"	35 Sp.@4"=11'-8"	3"	22 Sp.@7"=12'-10"*	- 15/32"	G25
G26	—	16 Sp.@9"=12'-0"	—	—	—	—	—	—	—	—	4"	23 Sp.@6"=11'-6"	2½"	31 Sp.@4½"=11'-7½"	2"	34 Sp.@4"=11'-4"	- 7/32"	G26
G27	—	12 Sp.@9"=9'-0"	—	—	—	—	—	—	—	—	4"	26 Sp.@6½"=14'-1"	3"	33 Sp.@4½"=12'-4½"	3"	24 Sp.@7"=14'-0"*	- 15/32"	G27
G28	—	—	—	—	—	—	—	—	4"	15 Sp.@9"=11'-3"	3½"	26 Sp.@6"=13'-0"	2½"	34 Sp.@4½"=12'-9"	3"	24 Sp.@7"=14'-0"*	+ 1/32"	G28
G29	—	22 Sp.@7"=12'-10"	—	—	—	—	—	—	—	—	—	24 Sp.@5½"=11'-0"	2½"	35 Sp.@4"=11'-8"	2½"	20 Sp.@6"=10'-0"*	+ 29/32"	G29
G30	—	21 Sp.@7"=12'-3"	—	—	—	—	—	—	—	—	—	—	3½"	32 Sp.@4½"=12'-0"	2½"	28 Sp.@6"=14'-0"*	- 7/32"	G30
G31	—	22 Sp.@7"=12'-10"	—	—	—	—	—	—	—	—	—	—	3½"	32 Sp.@4½"=12'-0"	2½"	28 Sp.@6"=14'-0"*	+ 1/8"	G31
G32	—	21 Sp.@7"=12'-3"	—	—	—	—	—	—	—	—	—	—	3½"	32 Sp.@4½"=12'-0"	2½"	27 Sp.@6"=13'-6"*	- 17/32"	G32
G33	—	20 Sp.@7"=11'-8"	—	—	—	—	—	—	—	—	—	—	3½"	32 Sp.@4½"=12'-0"	2½"	27 Sp.@6"=13'-6"*	- 5/32"	G33
G34	—	22 Sp.@8"=14'-8"	—	—	—	—	—	—	—	—	—	—	3½"	32 Sp.@4½"=12'-0"	2½"	27 Sp.@6"=13'-6"*	+ 3/16"	G34
G35	—	—	—	—	—	—	—	—	—	—	—	—	3"	29 Sp.@5"=12'-1"	2½"	35 Sp.@4"=11'-8"	- 1/16"	G35
G36	—	—	—	—	—	—	—	—	—	—	—	—	—	13 Sp.@6"=6'-6"	3"	19 Sp.@7"=11'-1"*	- 1/32"	G36
G37	—	—	—	—	—	—	—	—	—	—	—	—	—	21 Sp.@5"=8'-9"	3"	23 Sp.@6"=11'-6"*	+ 7/32"	G37
G38	—	—	—	—	—	—	—	—	—	—	—	—	—	27 Sp.@5½"=12'-4½"	3"	18 Sp.@7"=10'-6"*	+ 1/8"	G38
G39	—	—	—	—	—	—	—	—	—	—	—	—	—	30 Sp.@5"=12'-6"	3"	26 Sp.@6"=13'-0"*	+ 15/32"	G39
G40	—	—	—	—	—	—	—	—	—	—	—	17 Sp.@7"=9'-11"	3"	22 Sp.@5"=9'-2"	2½"	28 Sp.@4"=9'-4"	- 3/16"	G40
G41	—	—	—	—	—	—	—	—	—	—	—	17 Sp.@7"=9'-11"	3"	25 Sp.@5"=10'-5"	2½"	32 Sp.@4"=10'-8"	+ 21/32"	G41
G42	—	—	—	—	—	—	—	—	—	—	—	14 Sp.@8"=9'-4"	3"	33 Sp.@5"=13'-9"	3"	32 Sp.@4"=10'-8"	—	G42
G43	—	—	—	—	—	—	—	—	—	—	—	14 Sp.@10"=11'-8"	4"	24 Sp.@7"=14'-0"	3"	28 Sp.@6"=14'-0"	+ 11/32"	G43
G44	—	—	—	—	—	—	—	—	—	15 Sp.@8"=10'-0"	3½"	19 Sp.@5½"=8'-8½"	2½"	31 Sp.@4½"=11'-7½"	2"	29 Sp.@4"=9'-8"	- 15/32"	G44
G45	—	—	—	—	—	—	—	—	—	15 Sp.@8"=10'-0"	3½"	20 Sp.@5½"=9'-2"	2½"	31 Sp.@4½"=11'-7½"	2"	28 Sp.@4"=9'-4"	+ 1/4"	G45
G46	—	—	—	—	—	—	—	—	—	16 Sp.@8"=10'-8"	3½"	19 Sp.@5½"=8'-8½"	2½"	31 Sp.@4½"=11'-7½"	2"	28 Sp.@4"=9'-4"	—	G46
G47	—	—	—	—	—	—	—	—	—	15 Sp.@8"=10'-0"	3½"	20 Sp.@5½"=9'-2"	2½"	32 Sp.@4½"=12'-0"	2"	28 Sp.@4"=9'-4"	+ 1/4"	G47
G48	—	—	—	—	—	—	—	—	—	16 Sp.@8"=10'-8"	3½"	19 Sp.@5½"=8'-8½"	2½"	32 Sp.@4½"=12'-0"	2"	28 Sp.@4"=9'-4"	+ 1/32"	G48
G49	—	—	—	—	—	—	—	—	—	15 Sp.@8"=10'-0"	3½"	20 Sp.@5½"=9'-2"	2½"	33 Sp.@4½"=12'-4½"	2"	28 Sp.@4"=9'-4"	+ 5/16"	G49
G50	—	—	—	—	—	—	—	—	—	8 Sp.@8"=5'-4"	3½"	19 Sp.@6"=9'-6"	2½"	33 Sp.@4½"=12'-4½"	3"	24 Sp.@7"=14'-0"*	- 27/32"	G50
G51	—	—	—	—	—	—	—	—	—	8 Sp.@8"=5'-4"	3½"	20 Sp.@6"=10'-0"	2½"	32 Sp.@4½"=12'-0"	3"	24 Sp.@7"=14'-0"*	+ 3/8"	G51
G52	—	—	—	—	—	—	—	—	—	9 Sp.@8"=6'-0"	3½"	20 Sp.@6"=10'-0"	2½"	31 Sp.@4½"=11'-7½"	3"	24 Sp.@7"=14'-0"*	- 13/32"	G52
G53	—	—	—	—	—	—	—	—	—	10 Sp.@8"=6'-8"	3½"	19 Sp.@6"=9'-6"	2½"	31 Sp.@4½"=11'-7½"	3"	24 Sp.@7"=14'-0"*	+ 11/32"	G53
G54	—	—	—	—	—	—	—	—	—	9 Sp.@8"=6'-0"	3½"	20 Sp.@6"=10'-0"	2½"	32 Sp.@4½"=12'-0"	3"	24 Sp.@7"=14'-0"*	+ 3/8"	G54
G55	—	—	—	—	—	—	—	—	—	10 Sp.@8"=6'-8"	3½"	20 Sp.@6"=10'-0"	2½"	31 Sp.@4½"=11'-7½"	3"	24 Sp.@7"=14'-0"*	- 1/16"	G55
G56	—	—	—	—	—	—	—	—	—	17 Sp.@8"=11'-4"	3½"	21 Sp.@5½"=9'-7½"	2½"	27 Sp.@4½"=10'-1½"	2"	34 Sp.@4"=11'-4"	+ 9/32"	G56
G57	—	7 Sp.@6½"=4'-11½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	+ 1 3/16"	G57

* Double Spiral Unit.
** Girders G1 to G14, ⅝" ϕ Bar, 6" Mean Dia.
*** Girders G1 to G14, ⅝" ϕ Bar, 5" Mean Dia.

Work this Sheet with Sheets 52 to 60

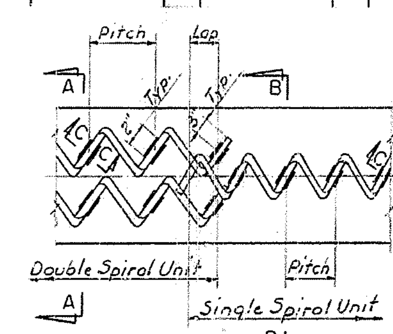


Note: +a or +s = Dimension inside the ℄ Bearing.
-a or -s = Dimension outside the ℄ Bearing.



SECTION A-A SECTION B-B SECTION C-C

SPIRAL DETAILS
ALTERNATE G



PART PLAN OF GIRDER

SHEET 67 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SHEAR CONNECTOR DETAILS

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

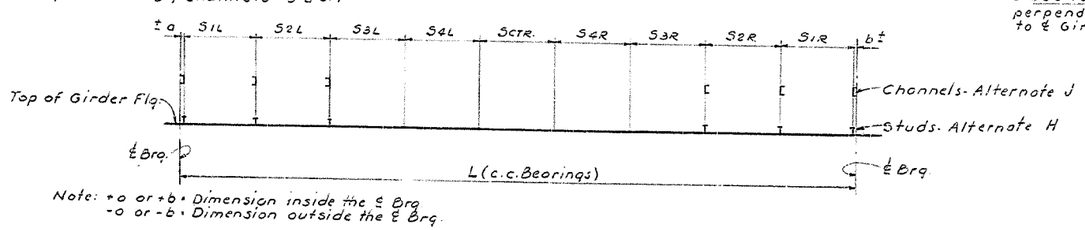
DESIGNED BY F. Mc. CHECKED BY P.R. DATE
DETAILED BY F. Mc. CHECKED BY P.R. DATE
TRACED BY M.B.D. CHECKED BY P.R. DATE
REVISED DATE
REVISED DATE
REVISED DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

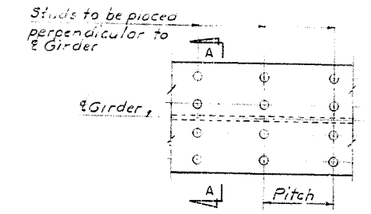
STUD AND CHANNEL SPACING

GIRDER	L	o	S1L *	S2L **	S3L **	S4L	SCTR.	S4R	S3R **	S2R **	S1R *	b	STUDS PER PITCH	LENGTH OF ℄	GIRDER
G1	114'-6 3/8"	-1"	14Sp@10'-11'-8"	13Sp@1'-2'-13'-0"	10Sp@1'-5'-14'-0"	8Sp@2'-0"-16'-0"	—	8Sp@2'-0"-15'-0"	10Sp@1'-5'-14'-0"	13Sp@1'-2'-14'-0"	17Sp@11"-15'-7"	-3/8"	4	8"	G1
G2	115'-2 1/2"	+1/2"	21Sp@10'-17'-6"	14Sp@1'-2'-16'-0"	10Sp@1'-5'-14'-0"	8Sp@2'-0"-16'-0"	—	7Sp@2'-0"-14'-0"	11Sp@1'-5'-15'-7"	13Sp@1'-2'-14'-0"	15Sp@11"-13'-6"	+4 1/16"	4	8"	G2
G3	116'-11 1/2"	+2 1/2"	19Sp@10'-15'-0"	14Sp@1'-2'-14'-0"	11Sp@1'-5'-15'-7"	9Sp@2'-0"-18'-0"	—	8Sp@2'-0" 16'-0"	11Sp@1'-5'-15'-7"	12Sp@1'-2'-13'-0"	16Sp@11"-14'-8"	+4 5/16"	4	8"	G3
G4	118'-5 13/16"	—	18Sp@10'-15'-0"	12Sp@1'-2'-12'-0"	10Sp@1'-5'-14'-0"	12Sp@2'-0"-24'-0"	—	10Sp@2'-0"-20'-0"	10Sp@1'-5'-14'-0"	12Sp@1'-2'-13'-0"	14Sp@11"-14'-0"	+4 11/16"	4	8"	G4
G5	120'-8 5/8"	—	26Sp@9"-18'-0"	11Sp@11"-10'-1"	9Sp@1'-5"-12'-9"	13Sp@2'-0"-26'-0"	—	13Sp@2'-0"-26'-0"	8Sp@1'-5"-11'-4"	11Sp@1'-2"-11'-11"	14Sp@11"-14'-0"	+4 13/16"	4	8"	G5
G6	123'-3 3/8"	—	18Sp@10'-15'-0"	13Sp@1'-2'-13'-0"	10Sp@1'-6"-15'-0"	13Sp@2'-0"-26'-0"	—	12Sp@2'-0"-24'-0"	10Sp@1'-6"-15'-0"	11Sp@1'-2"-12'-10"	13Sp@11"-13'-0"	+4 5/8"	4	8"	G6
G7	126'-1 1/2"	-1/4"	24Sp@9"-18'-0"	11Sp@11"-10'-1"	10Sp@1'-6"-15'-0"	14Sp@2'-0"-28'-0"	—	13Sp@2'-0"-26'-0"	9Sp@1'-6"-13'-6"	13Sp@1'-2'-14'-1"	13Sp@12"-13'-0"	-4'-6"	4	8"	G7
G8	128'-8 7/16"	—	25Sp@10'-20'-0"	12Sp@11"-11'-11"	11Sp@1'-6"-16'-6"	12Sp@2'-0"-24'-0"	—	11Sp@2'-0"-22'-0"	9Sp@1'-6"-13'-6"	15Sp@1'-1"-16'-3"	18Sp@11"-16'-6"	+4 5/16"	4	8"	G8
G9	130'-10"	—	18Sp@10'-15'-0"	14Sp@1'-2"-14'-0"	11Sp@1'-6"-16'-6"	15Sp@2'-0"-30'-0"	—	14Sp@2'-0"-28'-0"	10Sp@1'-6"-15'-0"	11Sp@1'-3"-13'-9"	12Sp@1'-2"-14'-0"	+4'-7"	4	8"	G9
G10	133'-6 1/2"	—	17Sp@9"-12'-9"	12Sp@11"-10'-0"	12Sp@1'-6"-18'-0"	16Sp@2'-0"-32'-0"	—	15Sp@2'-0"-30'-0"	11Sp@1'-6"-16'-6"	10Sp@1'-3"-12'-6"	12Sp@1'-2"-14'-0"	+4'-9 1/2"	4	8"	G10
G11	136'-2 3/8"	-1/4"	23Sp@10'-19'-2"	11Sp@12"-11'-0"	11Sp@1'-6"-16'-6"	17Sp@2'-0"-34'-0"	—	16Sp@2'-0"-32'-0"	10Sp@1'-3"-12'-6"	10Sp@1'-6"-15'-0"	13Sp@1'-2"-15'-6"	+4'-11"	4	8"	G11
G12	138'-11 3/8"	-1 1/16"	24Sp@10'-20'-0"	11Sp@11"-10'-1"	11Sp@1'-6"-16'-6"	18Sp@2'-0"-36'-0"	—	16Sp@2'-0"-32'-0"	15Sp@1'-3"-13'-9"	11Sp@1'-6"-16'-6"	13Sp@1'-2"-15'-6"	+5'-1"	4	8"	G12
G13	141'-8 3/8"	-3/8"	19Sp@11"-17'-5"	13Sp@12"-15'-0"	11Sp@1'-6"-16'-6"	18Sp@2'-0"-36'-0"	—	18Sp@2'-0"-36'-0"	9Sp@1'-6"-13'-6"	11Sp@1'-3"-13'-9"	14Sp@1'-2"-16'-4"	+5'-3"	4	8"	G13
G14	180'-0"	—	13Sp@11"-14'-1"	12Sp@1'-3"-15'-0"	8Sp@1'-6"-12'-0"	3Sp@2'-0"-6'-0"	—	—	—	—	—	—	6	12"	G14
		—	—	—	—	—	50Sp@2'-0"-100'-0"	—	—	—	—	—	6	12"	
		—	—	—	—	—	—	—	—	—	—	—	4	8"	
G15	60'-11 3/8"	+1 9/16"	10Sp@10'-8'-4"	8Sp@1'-6"-8'-0"	6Sp@1'-4"-8'-0"	—	6Sp@2'-0"-12'-0"	—	4Sp.@2'-0"-8'-0"	6Sp.@1'-8"-10'-0"	7Sp@1'-4"-9'-4"	+5'-7"	6	12"	G15
G15A	41'-7"	+2 1/2"	8Sp@2'-0"-16'-0"	—	—	—	5Sp@1'-10"-9'-2"	—	6Sp.@1'-4"-8'-0"	8Sp@1'-2"-10'-0"	10Sp@10"-8'-4"	+1 9/16"	3	6"	G15A
G15B	41'-7"	+2 1/2"	8Sp@2'-0"-16'-0"	—	—	—	5Sp@1'-10"-9'-2"	—	—	—	8Sp@2'-0"-16'-0"	+2 1/2"	3	6"	G15B
G15C	66'-4 5/8"	+2 1/2"	—	—	—	—	33Sp@2'-0"-66'-0"	—	—	—	—	+2 1/2"	3	6"	G15C
G16	13'-8 1/2"	+1 3/4"	—	—	—	—	27Sp@8"-18'-0"	—	—	—	—	+1 3/4"	2	4"	G16
G17	35'-9 7/16"	-1 3/4"	52Sp@3"-13'-0"	10Sp@6"-5'-0"	—	—	—	—	—	10Sp@6"-5'-0"	52Sp@3"-13'-0"	-1 3/8"	2	4"	G17
G18	53'-3 5/16"	-1 1/2"	22Sp@5"-9'-2"	14Sp@6"-7'-0"	14Sp@9"-10'-6"	—	—	—	14Sp@9"-10'-6"	14Sp@6"-7'-0"	22Sp@5"-9'-2"	-1 1/8"	3	6"	G18
G19	70'-9 1/4"	+1/8"	17Sp@9"-12'-9"	11Sp@11"-10'-1"	10Sp@1'-3"-12'-6"	—	—	—	10Sp@1'-3"-12'-6"	11Sp@11"-10'-1"	17Sp@9"-12'-9"	+3/8"	4	8"	G19
G20	83'-3 1/16"	-1/32"	16Sp@9"-12'-0"	13Sp@10"-10'-10"	10Sp@1'-1"-10'-10"	7Sp@1'-6"-10'-6"	—	7Sp@1'-6"-10'-6"	10Sp@1'-1"-10'-10"	13Sp@10"-10'-10"	16Sp@9"-12'-0"	-3/32"	4	8"	G20
G21	105'-9 1/2"	-7/16"	20Sp@9"-15'-0"	15Sp@11"-13'-9"	10Sp@1'-3"-12'-6"	7Sp@1'-8"-11'-8"	—	7Sp@1'-8"-11'-8"	10Sp@1'-3"-12'-6"	15Sp@11"-13'-9"	20Sp@9"-15'-0"	-1/16"	4	8"	G21
G22	117'-7 3/4"	+3/8"	—	—	—	—	30Sp@7"-17'-6"	—	—	—	—	+3/8"	2	4"	G22
G23	32'-4 5/8"	+1/16"	18Sp@4"-6'-0"	16Sp@5"-6'-8"	—	—	14Sp@6"-7'-0"	—	—	16Sp@5"-6'-8"	18Sp@4"-6'-0"	+1/16"	2	4"	G23
G24	47'-0 5/8"	-11/16"	24Sp@6"-12'-0"	13Sp@7"-7'-7"	—	—	8Sp@12"-8'-0"	—	—	13Sp@7"-7'-7"	24Sp@6"-12'-0"	-11/16"	3	6"	G24
G25	61'-9 1/16"	+13/32"	20Sp@7"-11'-8"	15Sp@10"-12'-6"	—	—	10Sp@1'-4"-13'-4"	—	—	15Sp@10"-12'-6"	20Sp@7"-11'-8"	+13/32"	4	8"	G25
G26	76'-5 7/16"	+25/32"	16Sp@9"-12'-0"	14Sp@11"-12'-10"	10Sp@1'-4"-13'-4"	—	—	—	10Sp@1'-4"-13'-4"	14Sp@11"-12'-10"	16Sp@9"-12'-0"	+25/32"	4	8"	G26
G27	91'-2 1/16"	+3/32"	17Sp@9"-12'-9"	11Sp@10"-9'-2"	10Sp@1'-2"-11'-8"	8Sp@1'-6"-12'-0"	—	8Sp@1'-6"-12'-0"	10Sp@1'-2"-11'-8"	11Sp@10"-9'-2"	17Sp@9"-12'-9"	+3/32"	4	8"	G27
G28	107'-6 1/16"	+3/32"	15Sp@1'-2"-17'-6"	11Sp@1'-3"-13'-9"	7Sp@1'-6"-10'-6"	6Sp@2'-0"-12'-0"	—	6Sp@2'-0"-12'-0"	10Sp@1'-3"-12'-6"	13Sp@11"-11'-11"	26Sp@8"-17'-4"	+3/32"	4	8"	G28
G29	64'-3 1/8"	-3/32"	16Sp@7 1/2"-10'-0"	16Sp@8 1/2"-11'-4"	10Sp@1'-1"-10'-10"	—	—	—	10Sp@1'-1"-10'-10"	16Sp@8 1/2"-11'-4"	16Sp@7 1/2"-10'-0"	-3/32"	4	8"	G29
G30	63'-9 9/16"	+25/32"	18Sp@7"-10'-6"	14Sp@9"-10'-6"	10Sp@1'-1"-10'-10"	—	—	—	10Sp@1'-1"-10'-10"	14Sp@9"-10'-6"	18Sp@7"-10'-6"	+25/32"	4	8"	G30
G31	63'-3 1/4"	-3/8"	19Sp@7"-11'-1"	13Sp@9"-9'-9"	10Sp@1'-1"-10'-10"	—	—	—	10Sp@1'-1"-10'-10"	13Sp@9"-9'-9"	19Sp@7"-11'-1"	-3/8"	4	8"	G31
G32	62'-8 5/8"	+15/32"	21Sp@7"-12'-3"	11Sp@9"-8'-3"	10Sp@1'-1"-10'-10"	—	—	—	10Sp@1'-1"-10'-10"	11Sp@9"-8'-3"	21Sp@7"-12'-3"	+15/32"	4	8"	G32
G33	62'-2 1/16"	-21/32"	20Sp@7"-11'-8"	13Sp@9"-9'-9"	9Sp@1'-1"-9'-9"	—	—	—	9Sp@1'-1"-9'-9"	13Sp@9"-9'-9"	20Sp@7"-11'-8"	-21/32"	4	8"	G33
G34	61'-8 3/8"	+1/16"	22Sp@7"-12'-10"	11Sp@9"-8'-3"	9Sp@1'-1"-9'-9"	—	—	—	9Sp@1'-1"-9'-9"	11Sp@9"-8'-3"	22Sp@7"-12'-10"	+1/16"	4	8"	G34
G35	61'-2 5/16"	-15/16"	12Sp@10'-10'-0"	10Sp@12"-10'-0"	8Sp@1'-4"-10'-8"	—	—	—	8Sp@1'-4"-10'-8"	10Sp@12"-10'-0"	12Sp@10"-10'-0"	-15/16"	4	8"	G35
G36	34'-4 1/16"	-3/32"	39Sp@4"-13'-0"	—	—	—	17Sp@6"-8'-6"	—	—	—	39Sp@4"-13'-0"	-3/32"	2	4"	G36
G37	39'-8 7/16"	+3/32"	43Sp@4"-14'-4"	—	—	—	22Sp@6"-11'-0"	—	—	—	43Sp@4"-14'-4"	+3/32"	2	4"	G37
G38	45'-0 1/2"	+3/8"	27Sp@6"-13'-6"	—	—	—	27Sp@8"-13'-0"	—	—	—	27Sp@6"-13'-6"	+3/8"	3	6"	G38
G39	50'-3 5/16"	-1/32"	20Sp@6"-10'-0"	15Sp@7"-8'-9"	7Sp@11"-6'-5"	—	—	—	7Sp@11"-6'-5"	15Sp@7"-8'-9"	20Sp@6"-10'-0"	-3/32"	3	6"	G39
G40	55'-7 3/8"	+13/16"	19Sp@7"-11'-1"	16Sp@9"-12'-0"	—	—	8Sp@1'-2"-9'-4"	—	—	16Sp@9"-12'-0"	19Sp@7"-11'-1"	+13/16"	3	6"	G40
G41	60'-11 7/16"	+23/32"	15Sp@10'-12'-6"	13Sp@11"-11'-11"	—	—	8Sp@1'-6"-12'-0"	—	—	13Sp@11"-11'-11"	15Sp@10"-12'-6"	+23/32"	4	8"	G41
G42	66'-3"	-1/2"	24Sp@7"-14'-0"	15Sp@10"-12'-6"	5Sp.@1'-4"-6'-8"	—	—	—	5Sp@1'-4"-6'-8"	15Sp@10"-12'-6"	24Sp@7"-14'-0"	-1/2"	4	8"	G42
G43	77'-10 11/16"	+13/32"	8Sp@1'-2"-9'-4"	8Sp@1'-4"-10'-8"	5Sp.@1'-7"-7'-11"	—	11Sp@2'-0"-22'-0"	—	5Sp@1'-7"-7'-11"	8Sp@1'-4"-10'-8"	8Sp@1'-2"-9'-4"	+13/32"	4	8"	G43
G44	78'-3 1/16"	-13/16"	12Sp@9"-9'-0"	13Sp@10"-10'-10"	10Sp@1'-1"-10'-10"	6Sp@1'-5"-8'-6"	—	6Sp@1'-5"-8'-6"	10Sp@1'-1"-10'-10"	13Sp@10"-10'-10"	12Sp@9"-9'-0"	-13/16"	4	8"	G44
G45	78'-7 1/8"	-1/4"	13Sp@9"-9'-9"	11Sp@10"-9'-2"	11Sp@1'-1"-11'-11"	6Sp@1'-5"-8'-6"	—	6Sp@1'-5"-8'-6"	11Sp@1'-1"-11'-11"	11Sp@10"-9'-2"	13Sp@9"-9'-9"	-1/4"	4	8"	G45
G46	79'-0"	—	13Sp@9"-9'-9"	11Sp@10"-9'-2"	10Sp@1'-1"-10'-10"	6Sp@1'-5"-8'-6"	—	7Sp@1'-5"-9'-11"	11Sp@1'-1"-11'-11"	11Sp@10"-9'-2"	13Sp@9"-9'-9"	—	4	8"	G46
G47	79'-4 1/2"	+1/4"	13Sp@9"-9'-9"	11Sp@10"-9'-2"	9Sp@1'-1"-9'-9"	7Sp@1'-5"-9'-11"	—	7Sp@1'-5"-9'-11"	11Sp@1'-1"-11'-11"	11Sp@10"-9'-2"	13Sp@9"-9'-9"	+1/4"	4	8"	G47
G48	79'-9 7/16"	+3/32"	12Sp@9"-9'-0"	13Sp@10"-10'-10"	10Sp@1'-1"-10'-10"	—	13Sp@1'-5"-18'-5"	—	10Sp@1'-1"-10'-10"	13Sp@10"-10'-10"	12Sp@9"-9'-0"	+3/32"	4	8"	G48
G49	80'-1 3/8"	+5/16"	13Sp@9"-9'-9"	11Sp@10"-9'-2"	11Sp@1'-1"-11'-11"	—	13Sp@1'-5"-18'-5"	—	11Sp@1'-1"-11'-11"	11Sp@10"-9'-2"	13Sp@9"-9'-9"	+5/16"	4	8"	G49
G50	80'-5 7/16"	-1/32"	16Sp@8"-12'-0"	15Sp@9"-11'-3"	9Sp@12"-9'-0"	6Sp@1'-4"-8'-0"	—	6Sp@1'-4"-8'-0"	9Sp@12"-9'-0"	15Sp@9"-11'-3"	16Sp@8"-12'-0"	-1/32"	4	8"	G50
G51	80'-10 3/4"	+3/8"	16Sp@8"-10'-8"	17Sp@9"-12'-9"	9Sp@12"-9'-0"	6Sp@1'-4"-8'-0"	—	6Sp@1'-4"-8'-0"	9Sp@12"-9'-0"	17Sp@9"-12'-9"	16Sp@8"-10'-8"	+3/8"	4	8"	G51
G52	81'-4 3/4"	+3/32"	16Sp@8"-10'-8"	16Sp@9"-12'-0"	10Sp@12"-10'-0"	6Sp@1'-4"-8'-0"	—	6Sp@1'-4"-8'-0"	10Sp@12"-10'-0"	16Sp@9"-12'-0"	16Sp@8"-10'-8"	+3/32"	4	8"	G52
G53	81'-9 7/16"	-3/32"	18Sp@8"-12'-0"	15Sp@9"-11'-3"	9Sp@12"-9'-0"	—	13Sp@1'-4"-17'-4"	—	9Sp@12"-9'-0"	15Sp@9"-11'-3"	18Sp@8"-12'-0"	-3/32"	4	8"	G53
G54	82'-3 1/4"	-3/8"	15Sp@8"-10'-0"	13Sp@9"-9'-6"	9Sp@12"-9'-0"	—	13Sp@1'-4"-17'-4"	—	9Sp@12"-9'-0"	13Sp@9"-9'-6"	15Sp@8"-10'-0"	-3/8"	4	8"	G54
G55	82'-8 3/16"	+1/16"	16Sp@8"-10'-8"	16Sp@9"-12'-0"	10Sp@12"-10'-0"	—	13Sp@1'-4"-17'-4"	—	10Sp@12"-10'-0"	16Sp@9"-12'-0"	16Sp@8"-10'-8"	+1/16"	4	8"	G55
G56	83'-2 9/16"	+3/32"	14Sp@9"-10'-6"	13Sp@10"-10'-10"	9Sp@1'-1"-9'-9"	7Sp.@1'-6"-10'-6"	—	7Sp@1'-6"-10'-6"	9Sp@1'-1"-9'-9"	13Sp@10"-10'-10"	14Sp@9"-10'-6"	+3/32"	4	8"	G56
G57	5'-1 3/8"	+15/16"	—	—	—	—	5Sp@12"-5'-0"	—	—	—	—	+15/16"	3	6"	G57

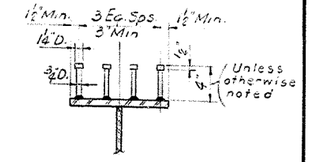
* Girders G1 to G14, Stud Ht 6", Channels 6 ℄ 8.2#
** Girders G1 to G14, Stud Ht 5", Channels 5 ℄ 6.7#



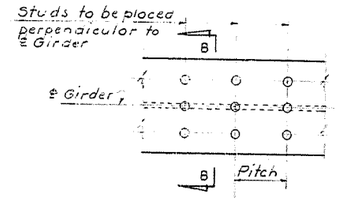
Note: +o or +b = Dimension inside the ℄ Brg.
-o or -b = Dimension outside the ℄ Brg.



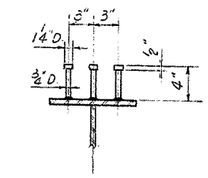
PART PLAN OF GIRDER



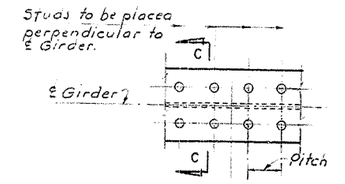
SECTION A-A



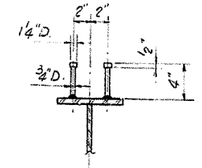
PART PLAN OF GIRDER



SECTION B-B

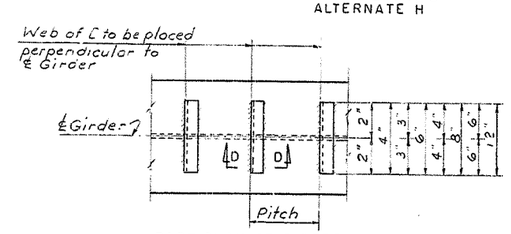


PART PLAN OF GIRDER

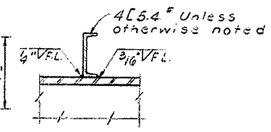


SECTION C-C

STUD DETAILS
ALTERNATE H

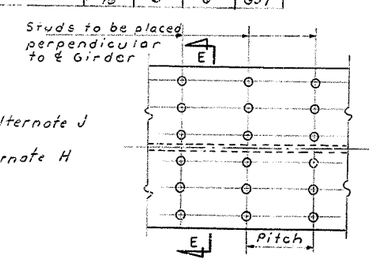


PART PLAN OF GIRDER



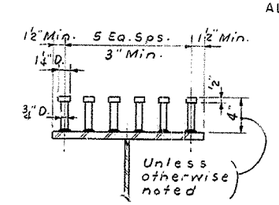
SECTION D-D

CHANNEL DETAILS
ALTERNATE J



PART PLAN OF GIRDER

STUD DETAILS
ALTERNATE H



SECTION E-E

Work this sheet with Sheets 52 to 60

SHEET 68 OF 88

DESIGNED BY F.M.G. CHECKED BY P.R. DATE
DETAILED BY F.M.G. CHECKED BY P.R. DATE
TRACED BY M.B.D. CHECKED BY P.R. DATE
REVISED
REVISED
REVISED

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

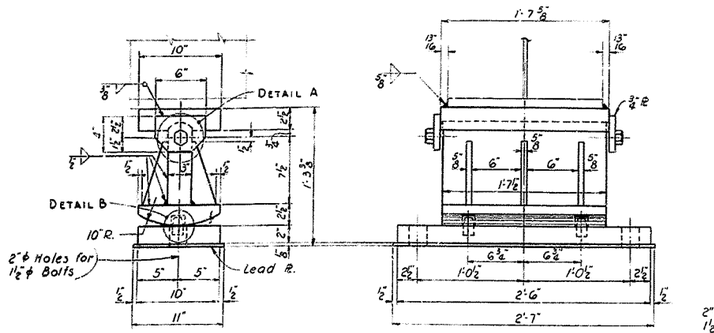
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SHEAR CONNECTOR DETAILS

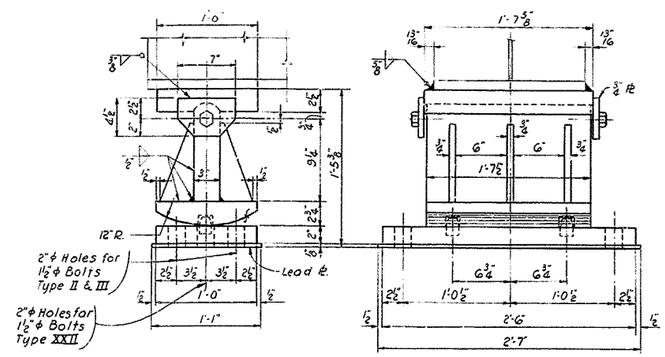
STATION 17+00.85 — PROJECT NO. I 65-6(9) 134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



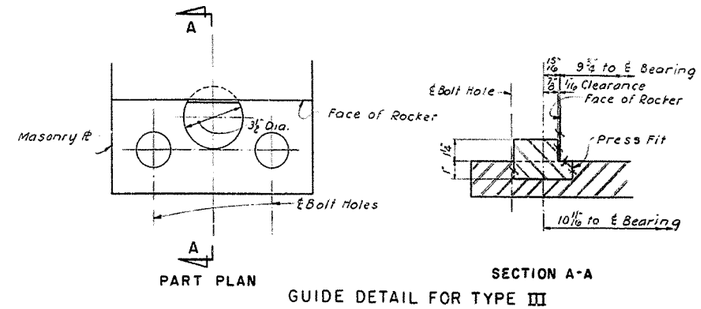
TYPE I
5 Required
Capacity 97 Tons



TYPE II, III & XXII

Type III same as Type II, except for the addition of a Guide at each end of the rocker. See Guide Detail.

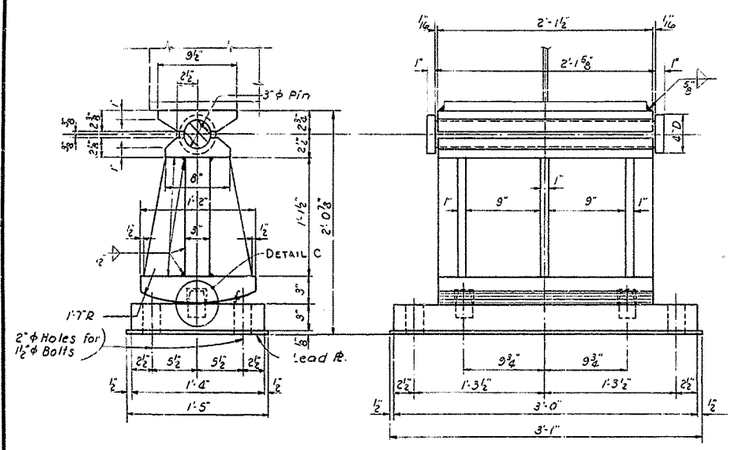
Type II · 2 Required
Type III · 3 Required
Type XXII · 3 Required
} Capacity 117 Tons



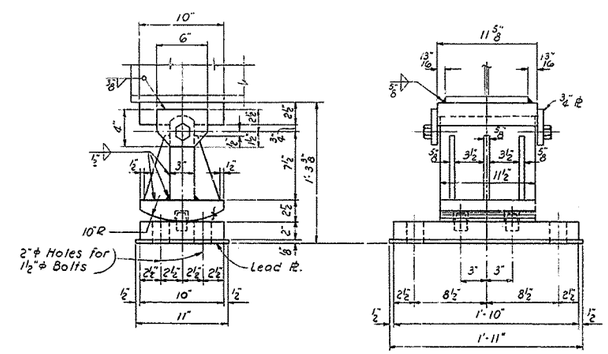
PART PLAN

SECTION A-A

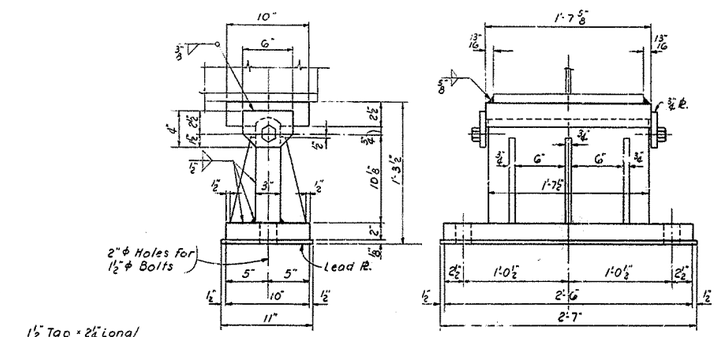
GUIDE DETAIL FOR TYPE III



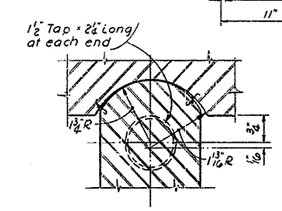
TYPE IV
One Required
Capacity 200 Tons



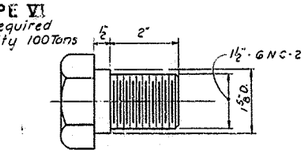
TYPE V
One Required
Capacity 30 Tons



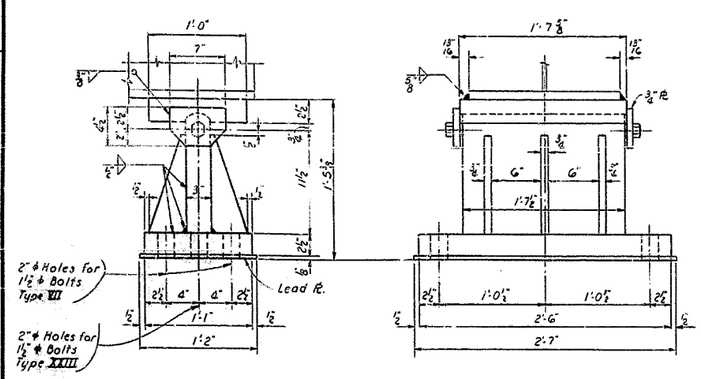
TYPE VI
One Required
Capacity 100 Tons



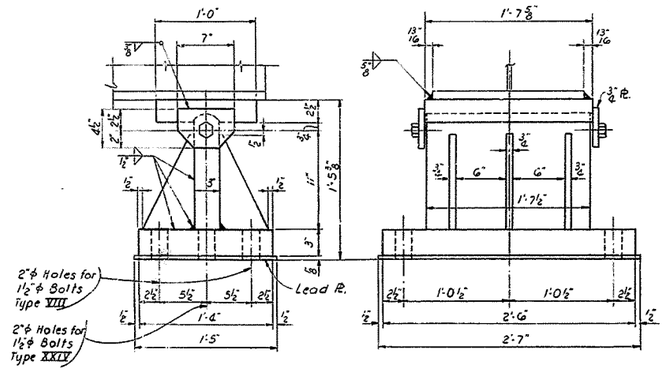
DETAIL A



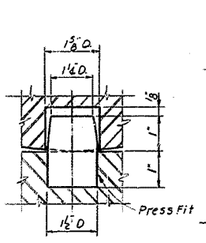
BOLT DETAIL



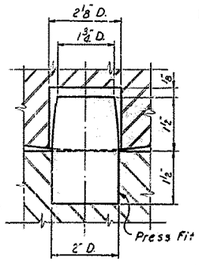
TYPE VII & XXIII
Type VII · 3 Required · Capacity 130 Tons
Type XXIII · 4 Required · Capacity 131 Tons



TYPE VIII & XXIV
Type VIII · 2 Required · Capacity 161 Tons
Type XXIV · 3 Required · Capacity 162 Tons



DETAIL B



DETAIL C

NOTES: Work this sheet with sheets 53 to 78.
Detail A is typical for all Types except Type III.
All pintles are as shown for Detail B unless otherwise noted.

SHEET 69 OF 88

DESIGNED BY	MDR	CHECKED BY	PR	DATE
DETAILED BY	F.Mc.	CHECKED BY	PR	DATE
TRACED BY	F.Mc.	CHECKED BY	P.R.	DATE

REVISED. DATE. REVISED. DATE. REVISED. DATE.

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

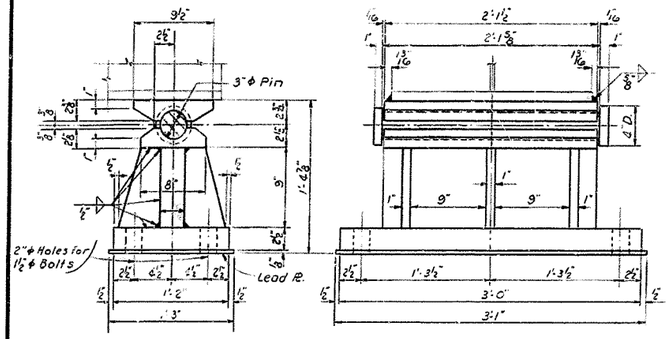
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH · SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SHOE DETAILS

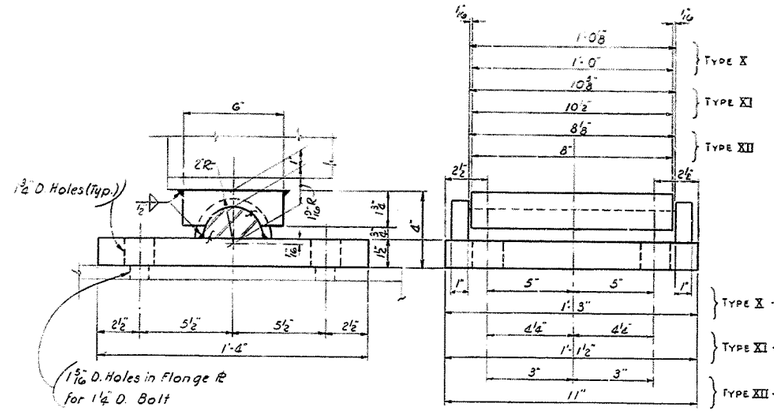
STATION 17+00.85 — PROJECT NO. 165-6(9)134

BRIDGE NUMBER	DRAWING NO. 14843	INDEX

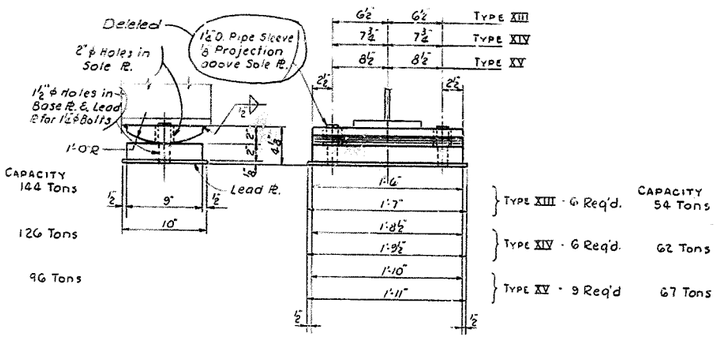
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



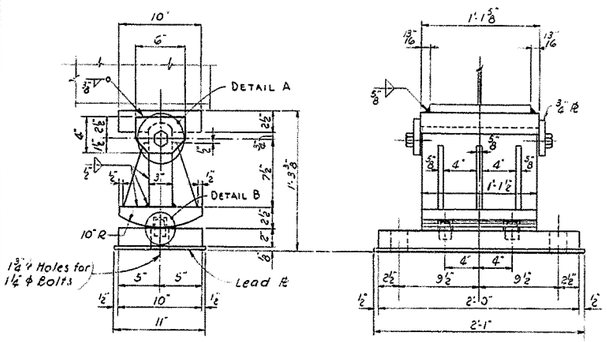
TYPE IX
One Required
Capacity 240 Tons



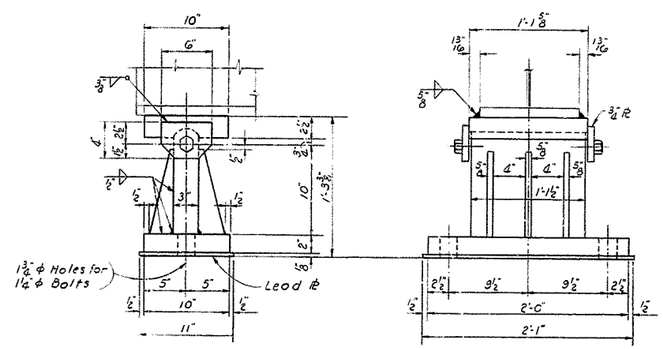
TYPE X, XI & XII



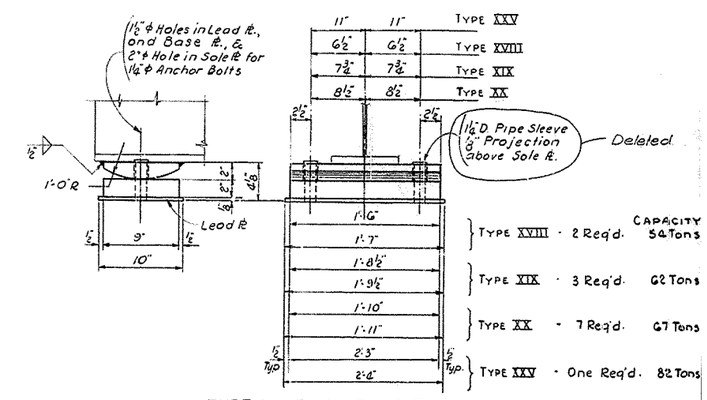
TYPE XIII, XIV & XV



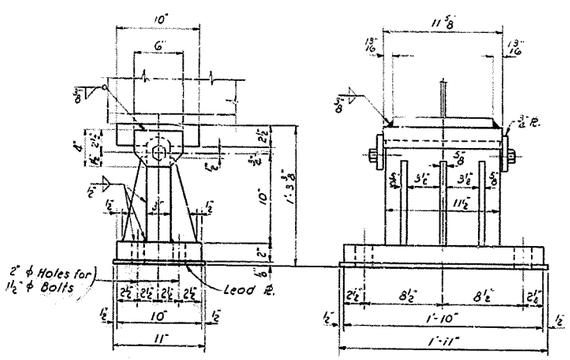
TYPE XVI
21 Required
Capacity 61 Tons



TYPE XVII
17 Required
Capacity 79 Tons

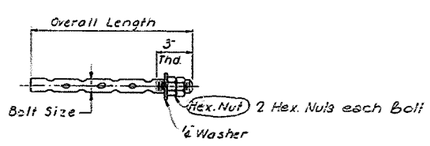


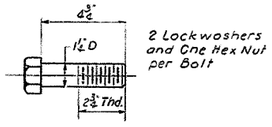
TYPE XVIII, XIX, XX & XXV



TYPE XXI
One Required
Capacity 71 Tons

BOLT SIZE	OVERALL LENGTH	EMBEDMENT IN MASONRY	PROJECTION	QUANTITY	LOCATION FOR TYPE
1¼" ϕ	1'-7"	12"	7"	68	XIII, XIV, XV, XVIII, XIX, XX, XXV
1¼" ϕ	1'-5"	12"	5"	76	XVI, XVII
1½" ϕ	1'-8"	15"	5"	46	I, II, III, XXII, V, VI, XXI
1½" ϕ	1'-9"	15"	6"	42	IV, VII, XXIII, VIII, XXIV, IX





BASE BOLT FOR BEARINGS
TYPE X XI & XII
48 Required

NOTES:

Detail A is typical for Types XVI, XVII & XXI.

For Details A & B see sheet 69

Work this sheet with sheets 53 to 78

SHEET 70 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
SHOE DETAILS

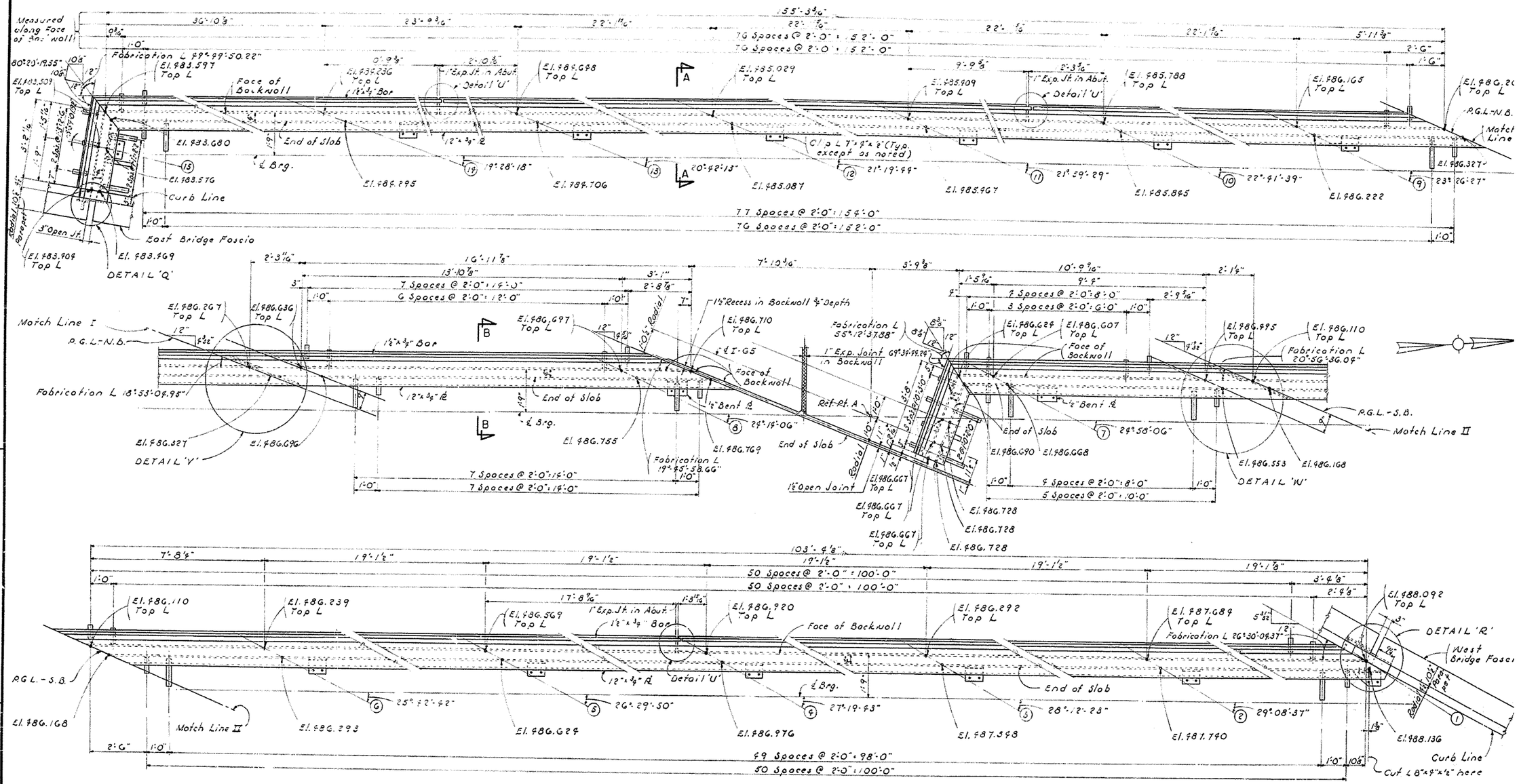
STATION 17+00.85 — PROJECT NO. 165-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY M.D.R. CHECKED BY P.R. DATE
DETAILED BY F.M.C. CHECKED BY P.R. DATE
TRACED BY F.M.C. CHECKED BY P.R. DATE
REVISED: Deleted 1½" Pipe Sleeve and added 1½" Pl. N.I. 6-64 DATE 11/15/67
REVISED DATE
REVISED DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
7	KY.			

SOUTH ABUTMENT



PLAN

SHEET 71 OF 8

Work this sheet with sheets No. 72 & 73

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVIL

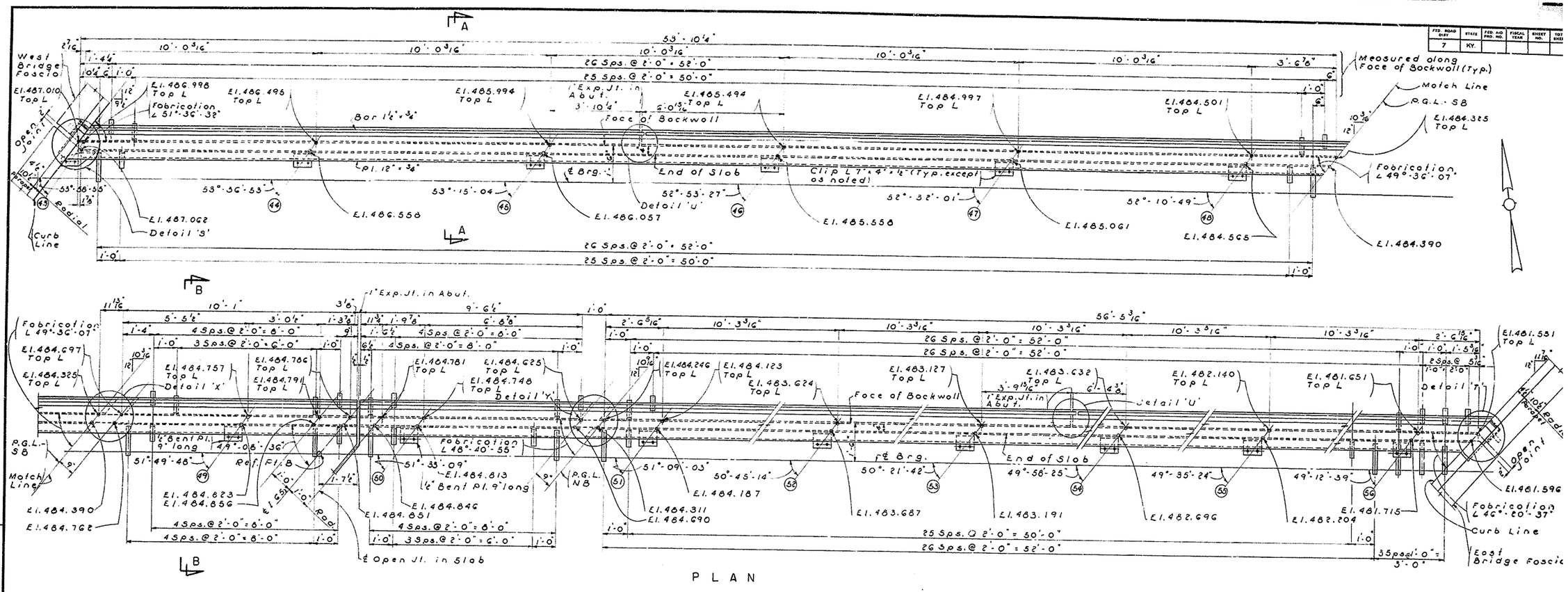
NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
EXPANSION DAM AT SOUTH ABUTMEN

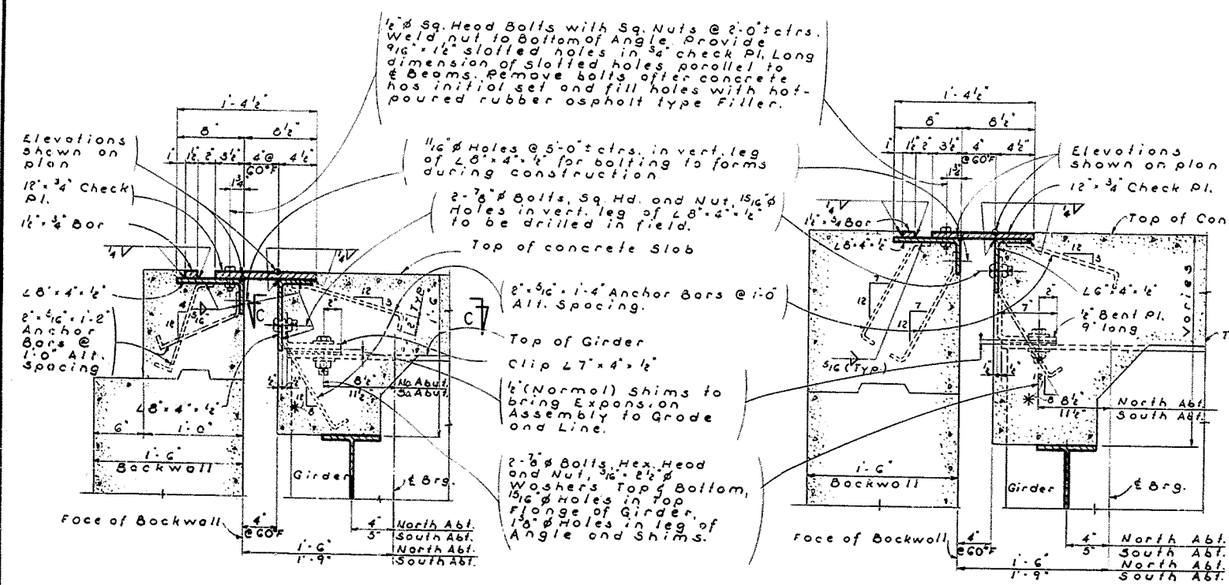
STATION 17+00.85 — PROJECT NO. I 65-6(9)134

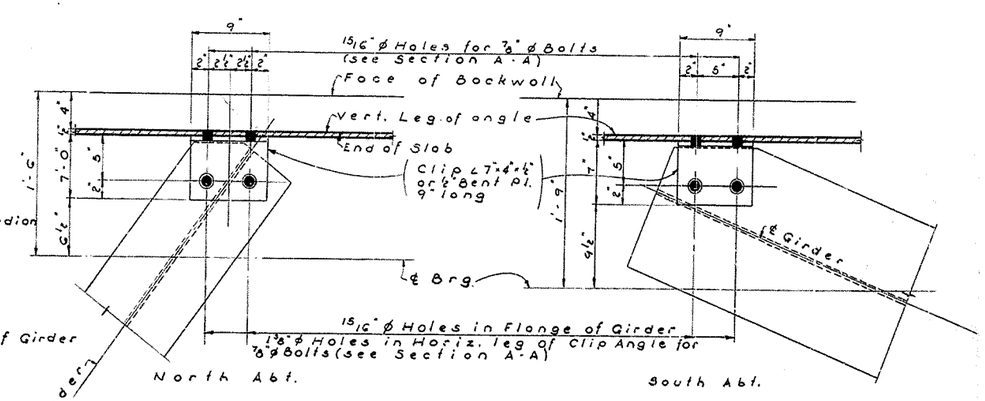
BRIDGE NUMBER — DRAWING No. 14843 — INDEX

DESIGNED BY A.M.P.	CHECKED BY P.R.	DATE	REVISED
DETAILED BY A.M.P.	CHECKED BY P.R.	DATE	REVISED
TRACED BY M.H.	CHECKED BY P.R.	DATE	REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT SHEE
7	KY.				







Note: Work this Sheet with Sheets 71 & 73

SHEET 72 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

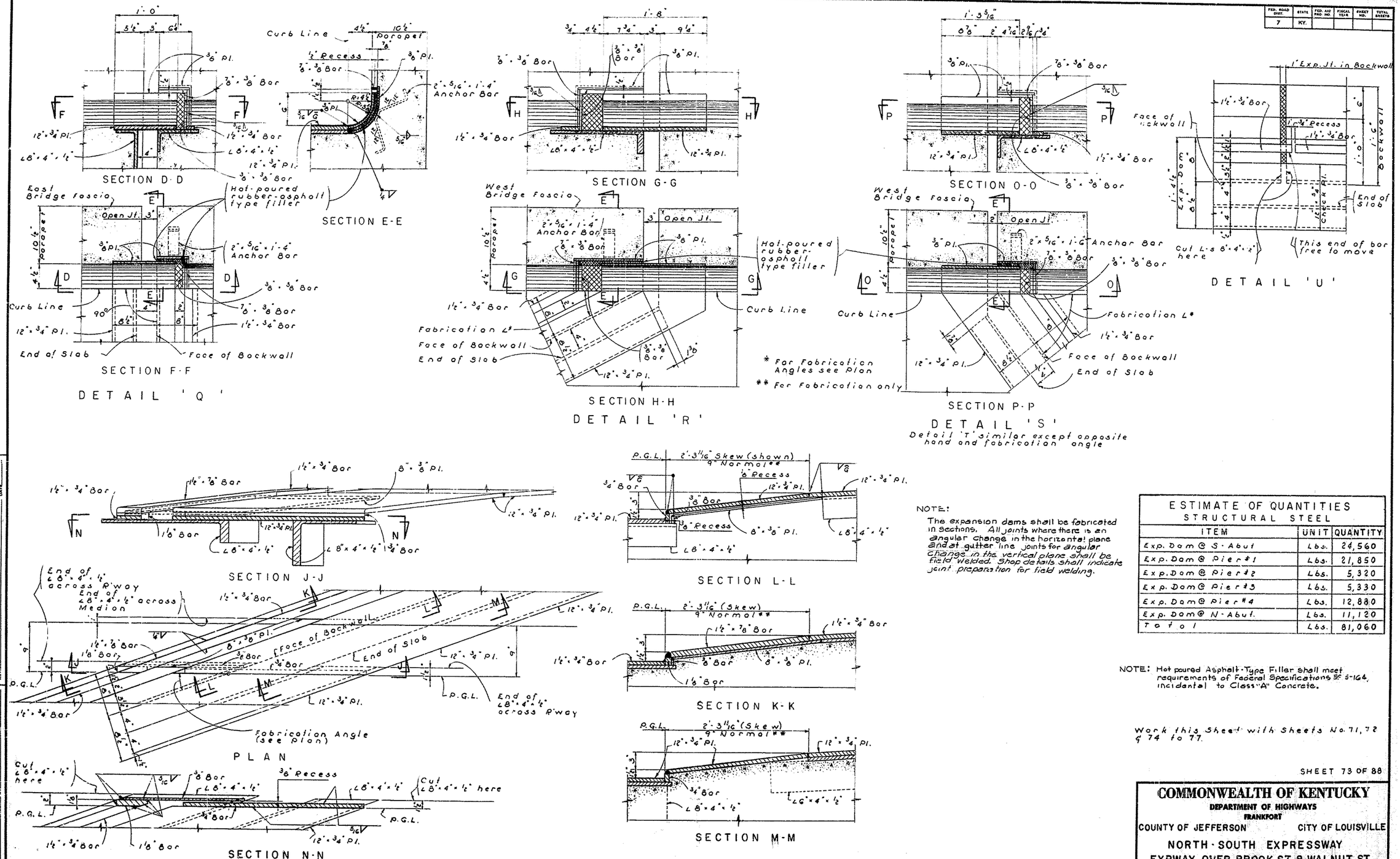
NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
EXPANSION DAM AT NORTH ABUTMENT

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING No. 14843 — INDEX

DESIGNED BY A.M.P.	CHECKED BY P.R.	DATE	REVISED
DETAILED BY A.M.P.	CHECKED BY P.R.	DATE	REVISED
TRACED BY W.T.	CHECKED BY P.R.	DATE	REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



NOTE:

The expansion dams shall be fabricated in sections. All joints where there is an angular change in the horizontal plane and at gutter line joints for angular change in the vertical plane shall be field welded. Shop details shall indicate joint preparation for field welding.

ESTIMATE OF QUANTITIES
STRUCTURAL STEEL

ITEM	UNIT	QUANTITY
Exp. Dam @ S-Abut	Lbs.	24,560
Exp. Dam @ Pier #1	Lbs.	21,850
Exp. Dam @ Pier #2	Lbs.	5,320
Exp. Dam @ Pier #3	Lbs.	5,330
Exp. Dam @ Pier #4	Lbs.	12,880
Exp. Dam @ N-Abut.	Lbs.	11,120
Total	Lbs.	81,060

NOTE: Hot poured Asphalt-Type Filler shall meet requirements of Federal Specifications SS-S-164, incidental to Class "A" Concrete.

Work this sheet with Sheets No. 71, 72 & 74 to 77.

SHEET 73 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

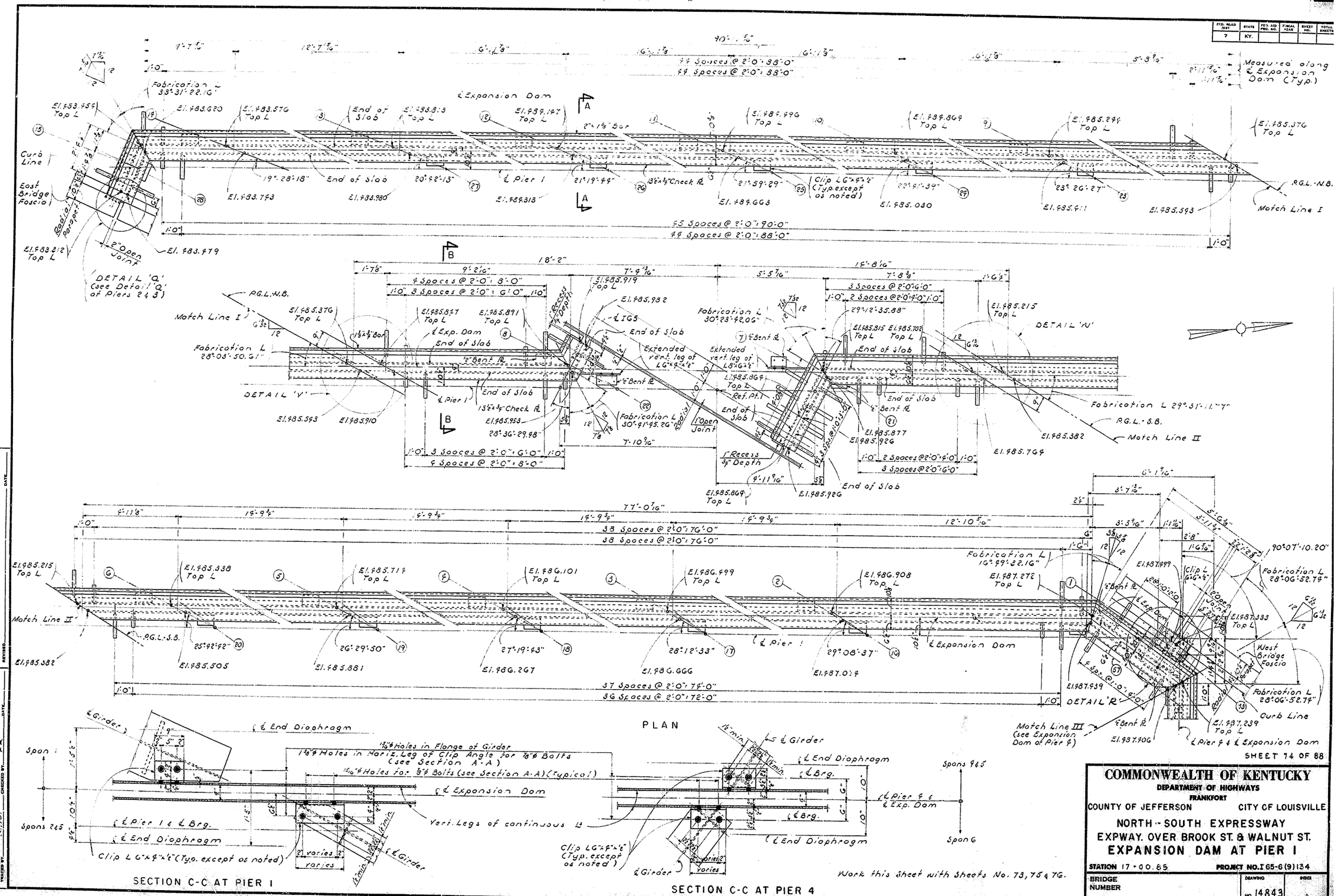
NORTH-SOUTH EXPRESSWAY
EXPWAY OVER BROOK ST. & WALNUT ST.
EXPANSION DAM DETAILS AT ABUTMENTS

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

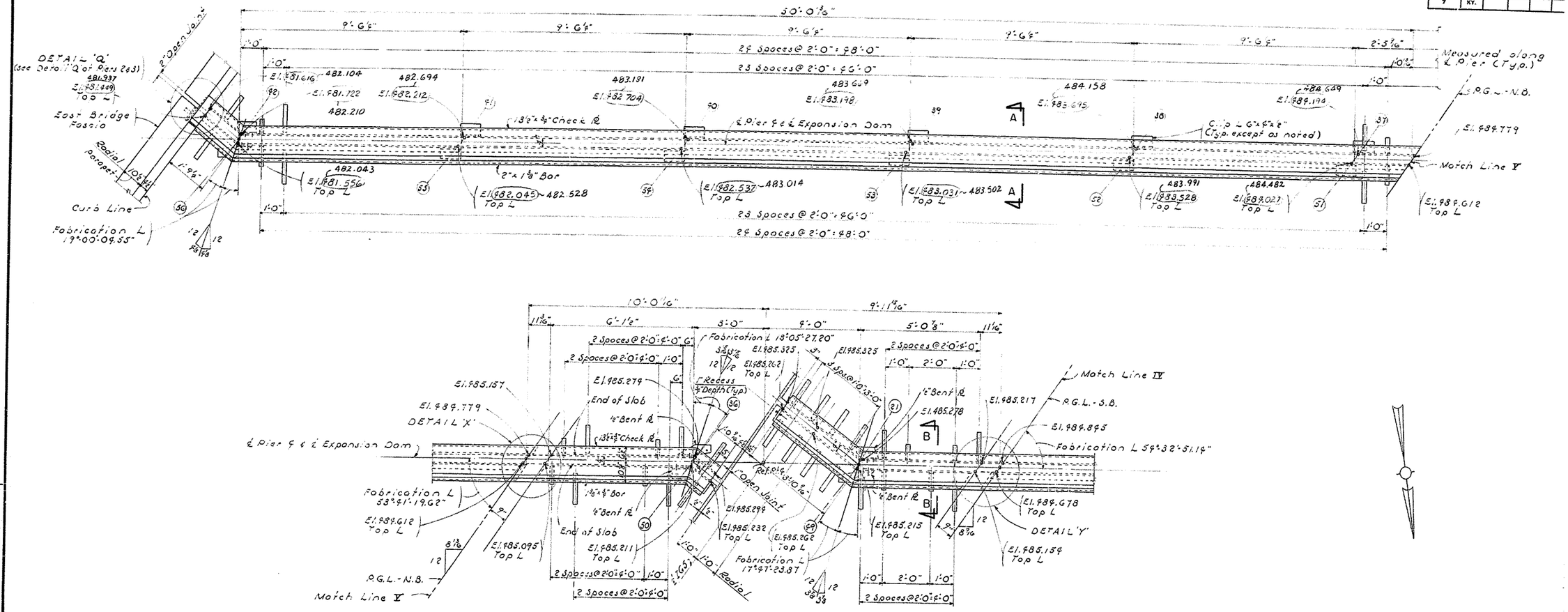
BRIDGE NUMBER — DRAWING No. 14843 — INDEX

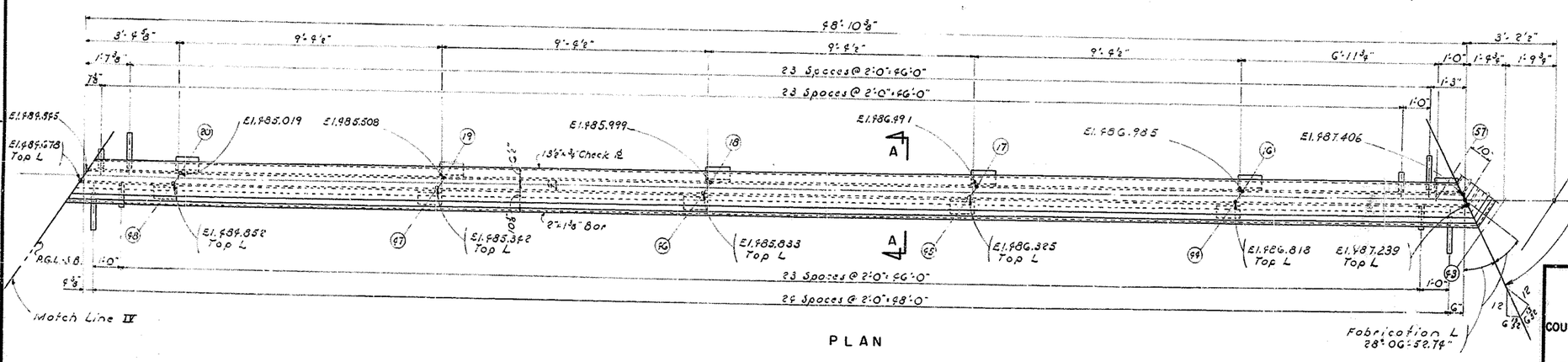
DESIGNED BY A.M.P. CHECKED BY P.R. DATE
DETAILED BY A.M.P. CHECKED BY P.R. DATE
TRACED BY W.T. CHECKED BY P.R. DATE
REVISED — REVISED — REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT SHE
7	KY.				





PLAN

SHEET 75 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

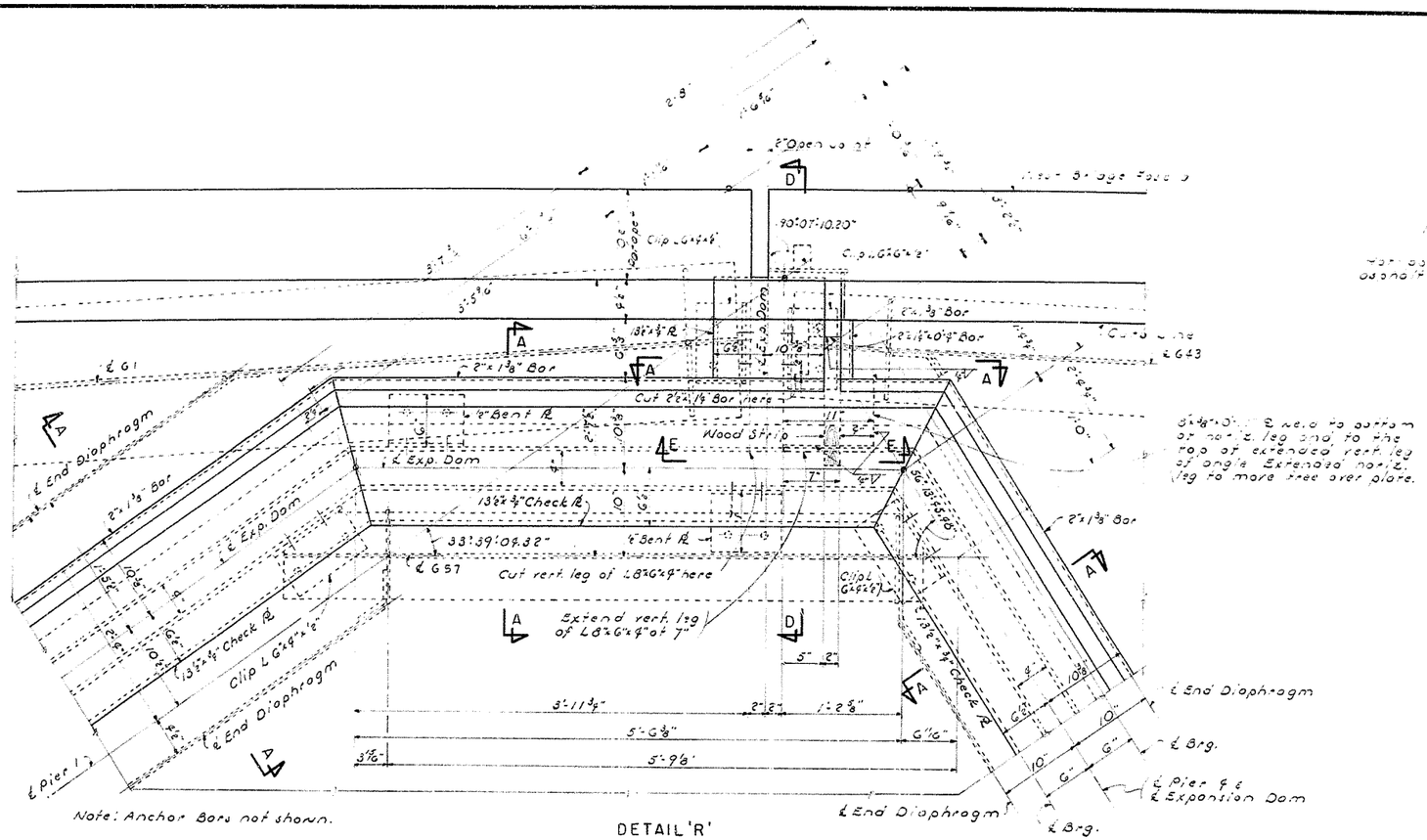
NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
EXPANSION DAM AT PIER 4

STATION 17+00.85 — PROJECT NO. I65-6(9)134

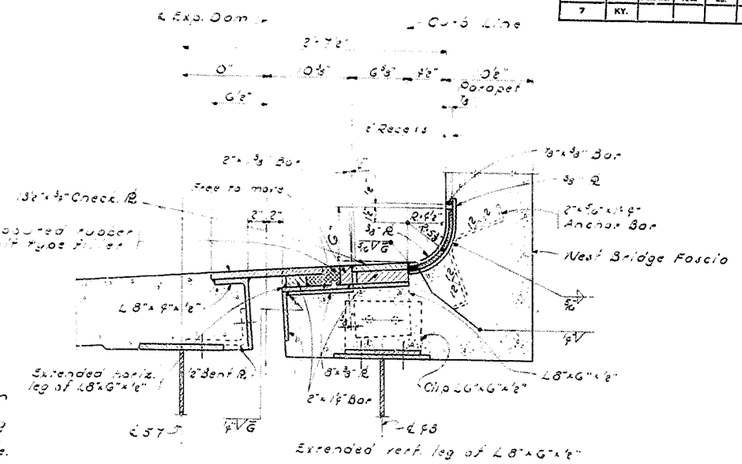
BRIDGE NUMBER — DRAWING NO. 14843 — SHEET

DESIGNED BY A.M.P.	CHECKED BY P.R.	DATE	REVISED
DETAILED BY A.M.P.	CHECKED BY P.R.	DATE	REVISED
TRACED BY M.H.	CHECKED BY P.R.	DATE	REVISED

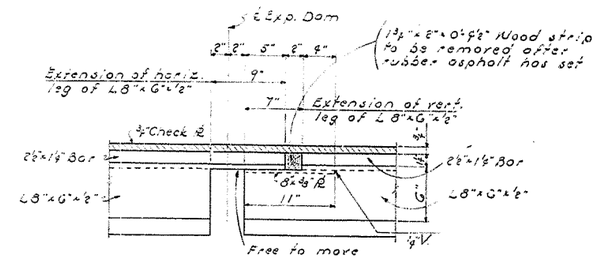
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



DETAIL 'R'



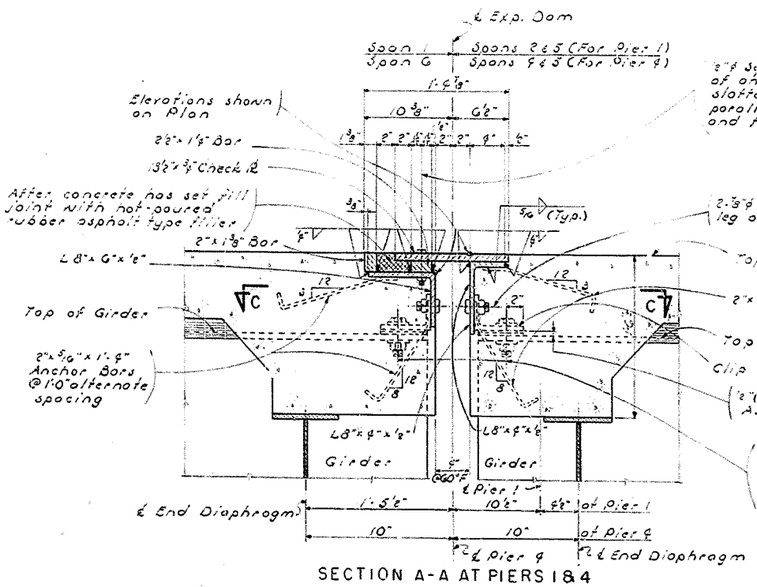
SECTION D-D



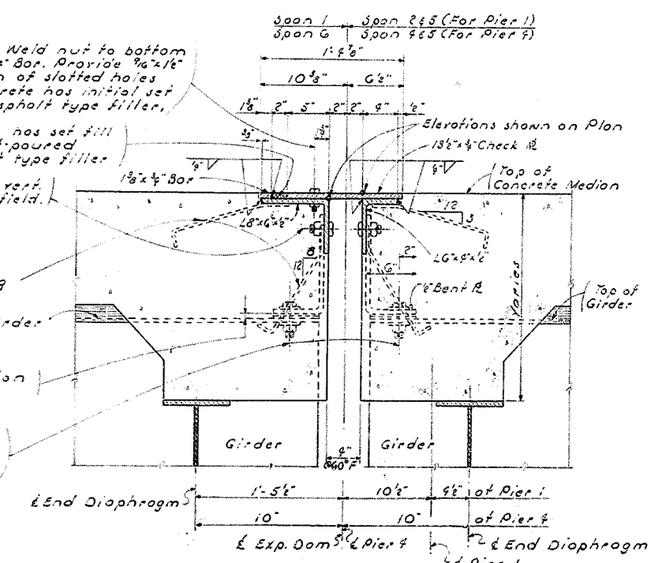
SECTION E-E

NOTE:

The expansion dams shall be fabricated in sections. All joints where there is an angular change in the horizontal plane and at gutter line joints for angular change in the vertical plane shall be field welded. Shop drawings shall indicate joint preparation for field welds.



SECTION A-A AT PIERS 1 & 4
(Pier 1 shown)



SECTION B-B AT PIERS 1 & 4
(Pier 1 shown)

NOTES:

Details 'Y' & 'W' of Pier 1 and Details 'X' & 'Y' of Pier 4 are similar to Detail 'Y' of Piers 2 & 3 except fabrication angles.

Work this Sheet with Sheets No. 74 & 75.

SHEET 76 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

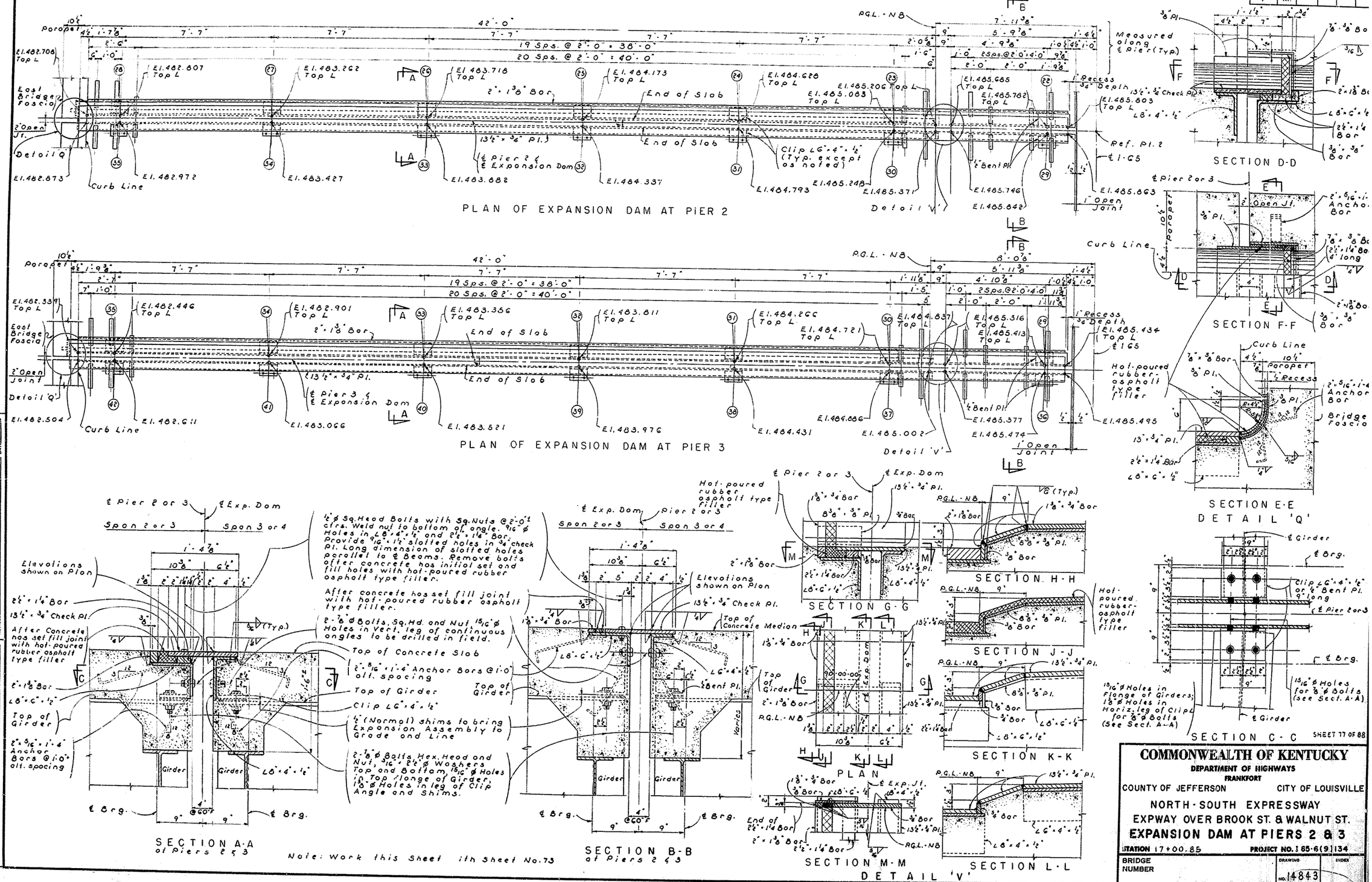
NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
EXPANSION DAM DETAILS AT PIERS 1 & 4

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY A.M.P.	CHECKED BY P.R.	DATE	REVISED
DETAILED BY A.M.P.	CHECKED BY P.R.	DATE	REVISED
TRACED BY M.F.J.	CHECKED BY P.R.	DATE	REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



DRAWN BY A.M.P. DATE
CHECKED BY P.R. DATE
DETAILED BY A.M.P. DATE
CHECKED BY P.R. DATE
TRACED BY W.T. DATE
CHECKED BY P.R. DATE
REVISED
REVISED
REVISED

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY OVER BROOK ST. & WALNUT ST.
EXPANSION DAM AT PIERS 2 & 3

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY	CHECKED BY	DATE	REVISED	DATE
DETAILED BY E.K.	CHECKED BY	DATE	REVISED	DATE
TRACED BY F.B.	CHECKED BY E.K.	DATE	REVISED	DATE

SPECIFICATIONS — Kentucky Department of Highways Standard, 1956 edition with amendments.

WELDING SPECIFICATIONS — All welding materials, welding technique, and welding procedure shall comply with American Welding Society Standard Specifications for Welded Highway and Railway Bridges, 1956 edition, except as hereinafter provided.

MATERIAL SPECIFICATIONS — The following ASTM designations shall govern the materials furnished:

ASTM DESIGNATION	MATERIAL
A242-55	High strength, low-alloy structural steel suitable for welding, for flanges, web and splices of girder G14.
A373-58T	Flanges, Web and Bearing Stiffeners.
A7-58T	Structural steel for intermediate stiffeners, frames, splices, bracing, expansion dams, shoes & rockers, bearing plates & anchor bolts.
A325-58T	High strength bolts, nuts, and washers.
A108-58T	Pins and rollers 7" or less in diameter grade 1016 to 1030, inclusive.
A48-56	Gray iron castings.
B29-55	Lead plates and molten lead.
A233-58T	Mild steel arc-welding electrodes for manual shielded metal-arc welding.
A72-56T	Wrought iron pipe and couplings.

PAYMENT FOR STRUCTURAL STEEL — For purpose of payment "lump sum bid" for structural steel includes structural steel, rivets, high-strength bolts, washers, welding and welding materials, molten lead, lead plates and anchor bolts, paint and all labor and materials necessary to erect the steel in accordance with the Plans and Specifications. Payment credits for changes in the steel quantities due to changes in the Plans ordered by the Engineer shall be at the unit price derived from the Contract lump sum bid divided by the estimated structural steel weight.

STEEL FINISH — Steel bearing surfaces in contact shall be finished in accordance with Section 5.2.3 of the Specifications.

CAMBER — Web plates shall be cut to provide for parabolic camber of the girder. Provide for possible warpage due to extra heat in top flange by virtue of shear connectors.

FILLER METAL — Electrodes for manual shielded metal arc welding of A7 and A373 structural carbon steel up to and including 1-1/4" in thickness shall conform to the requirements for Class E60 series ASTM A233 designation. For steel over 1-1/4" in thickness, low hydrogen electrodes E7015, E7016, or E7018 conforming to ASTM designation A233 shall be used.

Electrodes for manual shielded metal arc welding of A242 high-strength low-alloy steel shall be of the low hydrogen type conforming to the requirements of Class E7015, E7016, or E7018 of ASTM designation A233.

For submerged arc welding of A7 and A373 structural carbon steel the bare wire electrodes and the fluxing material used in combination shall be capable of producing weld metal having the properties listed in AWS Specifications paragraph 303.

For submerged arc welding of modified A242 high strength low alloy steel the bare wire electrodes and the flux material used in combination shall be capable of producing weld metal having the following properties:

Tensile strength,	min.	70,000 psi
Yield point,	min.	55,000 psi
Elongation in 2"		22% min.

The requirements for E6016 and E6015 electrodes contained in paragraph 301(b) of the AWS Specifications shall be applicable to all low hydrogen electrodes. Drying time may be reduced to one hour if heated from 600° to 800° F.

Flux used for submerged-arc welding for structural carbon steel shall be thoroughly dry and free from contamination from all foreign materials. Flux which shows evidence of moisture pickup shall be dried by heating to above 300° F. for a minimum of two hours. Flux which has been used, but not fused, shall be screened before re-use. Flux fused in welding shall not be re-used.

The electrodes for manual welding and the wire and flux for submerged arc welding shall be subjected to the tests prescribed in appendix B of the AWS Specifications prior to approval for use. The Engineer, at his discretion, may accept evidence of previous testing.

MILL TEST REPORTS — Notarized mill test reports in triplicate shall be furnished the Kentucky Department of Highways showing that all materials furnished conform to the Specifications.

SHOP DETAIL DRAWINGS — The Contractor shall submit shop detail drawings of all structural steel to the Bridge Engineer for approval in accordance with the Specifications. A set of linen tracings of approved shop details shall become the property of the Department of Highways when the Contract is completed and before final payment is made. No direct payment shall be made for record drawings but the cost shall be included in "lump sum bid" for structural steel. Any material ordered or work done by the Contractor before the shop drawings, including the welding procedures, are approved, shall be at his risk. Qualification tests of all welding procedures shall be completed by the Contractor and approved by the Engineer prior to the final approval of shop drawings and start of the fabrication.

WELDING PROCEDURE — The procedure of welding to be followed in fabrication shall be established by the fabricator in accordance with section 0101(a) of the AWS Specifications. The procedure specification shall be recorded as a part of the shop detail drawings and shall be submitted to the Director of Bridges for approval. The procedure specification shall outline the welding sequence for each welded shop assembly including shoes and rockers. The procedure specification shall specify for each type of weld, prequalified or other, the following: joint preparation, fit up, electrode specification, electrode diameter, welding position, polarity amperage, and number of passes, indicating any procedure change from one pass to the next in the same weld and indicating the maximum thickness in a weldment layer. Where preheating of the base metal is required it shall be indicated with the weld symbol on the shop detail drawings. Extension bars used in making butt welds shall be detailed on the shop detail drawings.

Procedure specifications submitted which are not tailored to suit the particular work to be fabricated shall not be considered as fulfilling the requirements of the Contract.

A submerged arc, single pass fillet weld in the flat position is to be used to connect the flange plates to the web plates.

The welding sequence outlined in the procedure specification shall be such as to avoid needless distortion and shrinkage stresses in accordance with section 504 of the AWS Specifications. For welded plate girders the broad outline of sequence shall be as follows:

1. Flange butt weld 2. Web butt weld 3. Web to flange weld 4. Stiffeners to web welds 5. Stiffeners to flange welds

QUALIFICATION — Welding procedures and welding operators shall be qualified in accordance with Section 6 of the AWS Specifications to the satisfaction of the Engineer. Prior to the start of actual welding operations the inspector and welding foreman shall hold a conference to insure that agreement has been reached regarding details of the procedure and sequence of welding to be followed, the status of qualification of the welders and approval of electrodes and other materials to be used.

In the welding of joints designed as stress carrying members, the use of semi-automatic ("squirt gun") welding will not be allowed.

AUTOMATIC WELDING PROCEDURE QUALIFICATION — For automatic welding procedure qualification to establish the current, voltage, and speed of travel to be used to guide the quality of work required as to appearance, soundness, ductility, etc., test specimens will be required prior to the beginning of work for the types of tests outlined in appendix D section D102 of the AWS Specifications. Upon acceptance by the inspector of the preceding tests, the values for voltage, current, and speed of travel shall be the procedure specification and shall be maintained within the limits as set under section 506(g) of the AWS Specifications. Deviation from this shall require requalifying the procedure.

JOINT PREPARATION — Details of butt welded joints shown on the design drawings are to be used with manual welding. When the use of submerged arc welding is anticipated, the welding procedure shall reflect the correct joint preparation to be used.

In addition to the provisions of paragraph 502(c) of the AWS Specifications, the following will be required:

Sheared plates to be used for webs of built-up members shall be ordered with sufficient additional width to allow for trimming of edges where built-in camber is required. Plates with rolled edges shall be trimmed.

Universal mill plates to be used for webs of built-up members shall be ordered with sufficient additional width to allow for trimming of both edges.

The faying surfaces of the web and flange plates and the adjacent surfaces that are to be fillet welded shall be cleaned by grinding prior to assembly and welding of web to flange.

PREHEAT — For manual shielded metal arc welding of high strength low alloy steel with low hydrogen electrodes the following minimum preheat and interpass temperatures shall prevail:

Thickness at point of welding, plates, shapes, or bars	
up to 1"	100° F.
1" to 2"	200° F.
over 2"	300° F.

For submerged arc welding of high strength low alloy steel, preheat ahead of welding of both fillet and groove welds shall be required as follows:

Material thickness	Preheat
up to 3/4"	None
over 3/4" to 1"	100° F.
over 1"	100° F. plus 25° F. per 1/4" increment of thickness

For submerged arc welding of structural carbon steel, preheat may be required ahead of both fillet and groove welds.

DIMENSIONS — Dimensions shown on the design drawings are for a normal temperature of 60° Fahrenheit with dead load on the structure.

SHOP ASSEMBLY — General reaming of holes for each field splice shall be required with all parts for each splice completely shop assembled with parts adjusted to lines and camber, fit for drilling or reaming. This applies to field splices in girders only. Girders shall remain assembled for inspection by the Department of Highways inspector and are to be match-marked while assembled. Other field connections shall be drilled or reamed in the shop with connecting parts assembled, or shall be drilled or reamed to a metal template without assembly.

FIELD CONNECTIONS — High strength steel bolts in accordance with section 5.2.3-A-5(1) of the Specifications shall be used in all field connections, except where field welding is indicated. Field welding shall be in accordance with the Specifications and welding procedures for field welding shall be submitted by the erector to the Department of Highways for approval.

Open holes shall be 15/16" diameter for 7/8" diameter high strength bolts; Open holes shall be 1-1/16" diameter for 1" diameter high strength bolts; Open holes shall be 1-3/16" diameter for 1-1/8" diameter high strength bolts.

Assembly and dimensions of high strength steel bolts, nuts and washers, shall conform to "Specifications for the Structural Joints using ASTM A325 Bolts" March 1960 approved by the Research Council on riveted and bolted structural joints of Engineering Foundation. All joints are designed as friction type connections. Installation shall be performed by using the turn-of-nut method.

SHOP CONNECTIONS — All welded shop splices in flanges of girders or frames shall be shown on the shop drawings.

PAINT — All structural steel shall be given one shop coat and one field coat of type I red lead paint and two field coats of aluminum paint. Exposed surfaces of expansion dams, not accessible after erection shall be given two field coats of aluminum paint before erection. Shop paint shall not be applied within 3" of open holes where high strength bolts are to be used for field connections and shall not be applied to steel surfaces in contact with concrete. Cleaning of weld spatter from welded assemblies in accordance with AWS 513a shall be required before assemblies are shop painted. Shop paint shall not be applied where field welding is to be done. Areas not painted in the shop shall be given one coat of type I red lead at touch up prior to application of the field coat of red lead paint. Individual field coats shall be tinted to faithfully indicate the progress of field painting.

ADDITIONAL FIELD SPLICES — If additional field splices are permitted they shall be at the Contractor's expense and shall be included in the "lump sum bid" for structural steel.

RADIOGRAPHIC TESTS — Radiographic tests for discontinuities of weld in girders are to be made by the Kentucky Department of Highways in accordance with ASTM E94-52T Specifications. This service is to be an inspection operation, whereby material is accepted or rejected. All parts and material which have been accepted should be marked permanently, with a characteristic identifying symbol which will indicate, to subsequent or final inspectors, the fact of x-ray acceptance. This service including radiographs, custody and preservation, interpretation, and reports shall be arranged by the Kentucky Department of Highways. All butt welds shall be of satisfactory quality, as determined by radiographic inspection. The method of inspection shall be based on the following outline:

For shop butt welds, radiography shall be used in conjunction with procedure qualification to insure that the materials, machines, methods, and workmen being used are producing work of radiographic quality. Except for unusual circumstances not over 25% of the shop splices will be radiographed, but 100% of the shop butt tension flange welds are to be radiographed. Radiographs shall be made of each welding operator's work.

For fillet welds of the web to the flange on the built up girders, sections of fillet welds that are shown by magnetic particle inspection to have major subsurface discontinuities shall be radiographed to determine the extent and exact nature of the defect.

Sections of butt welds that are shown by radiography to have any of the following types of imperfections shall be removed and repaired.

(1) Any type of crack or zone of incomplete fusion or penetration.

(2) Any elongated slag inclusion which has a dimension greater than 1/4" for T up to 3/4", and 1/3 T for T from 3/4" to 2-1/4", where T is the thickness of the thinner plate being welded.

(3) Any group of slag inclusions in line having an aggregate length greater than T in a length of 12T, unless the distance between inclusions exceeds 6L where L is the length of the longest imperfection in the group.

(4) Porosity in excess of that shown by picture standard as designated in Section VIII of the ASME Boiler Code, paragraph WW51, subpar. (M) (4).

For radiography of fillet weld, any section of weld shown to have any of the following types of subsurface imperfections shall be removed and repaired.

(1) Any type of crack or zone of incomplete fusion or penetration.

(2) Any elongated slag inclusion which has a dimension greater than 2/3 T where T is the thickness of the thinner plate being welded. Any such imperfection 1/4" or less shall be acceptable for any plate thickness.

(3) Porosity is not a factor in welds subject to this type spot radiography except as noted for surface porosity in paragraph 509(e) of the AWS Specifications.

In any of the above radiography, the discovery of poor workmanship shall require that additional radiographs be made of either the area of work showing defects or other work done by the same operator whose work is not acceptable.

MAGNETIC PARTICLE INSPECTION OF FILLET WELDS — Web-to-Flange fillets in main girders and frames shall be inspected by the dry powder magnetic particle inspection method in accordance with ASTM Specification E109-57T. This inspection shall be conducted by the Kentucky Department of Highways Inspector who shall accept or reject the weld. The inspector shall demonstrate to the fabricators the performance and sensitivity of the equipment and the inspecting personnel on standard prepared specimens which shall illustrate the following types of defects.

(1) Surface or subsurface cracking

(2) Lack of penetration

(3) Incomplete fusion

(4) Slag inclusion

(5) Porosity

The demonstrated performance of the inspection technique on the standard defective specimens shall be the basis of acceptance or rejection of the weld. Any section of fillet weld shown to have the above types of imperfections shall be removed and repaired, except that porosity and slag inclusions having a dimension of 1/4" or less or 2/3 T or less, where T is the thickness of the thinner plate being welded, will be acceptable.

The inspector shall schedule and perform his work in such a manner as to keep interference with regular fabrication operations to a minimum.

The fabricator shall provide an adequate source of electrical current to the inspector and furnish the current required to conduct the inspection.

A minimum of 50% of the linear feet of web-to-flange fillets in main girders and frames shall be tested by the magnetic particle inspection method.

FABRICATION TOLERANCES — Fabrication tolerances for welding shop fabricated members shall be limited to tolerance outlined in Section 507 of the AWS Specifications.

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY				

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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

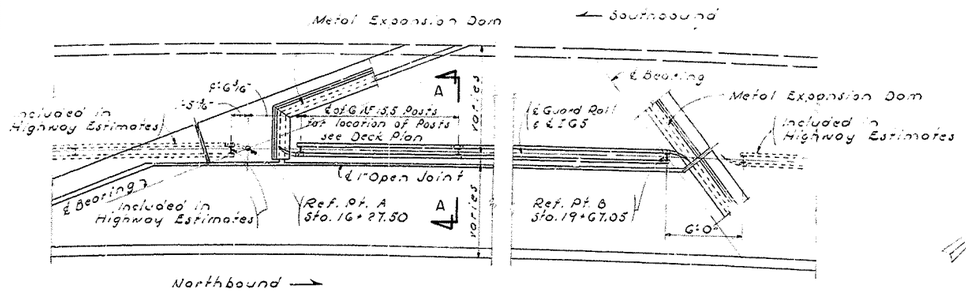
COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
STRUCTURAL STEEL NOTES

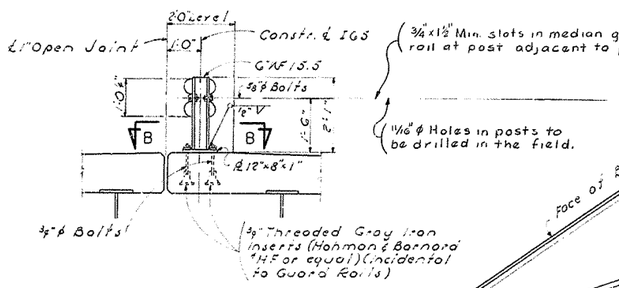
STATION 17 + 00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER	DRAWING NO. 14843	INDEX

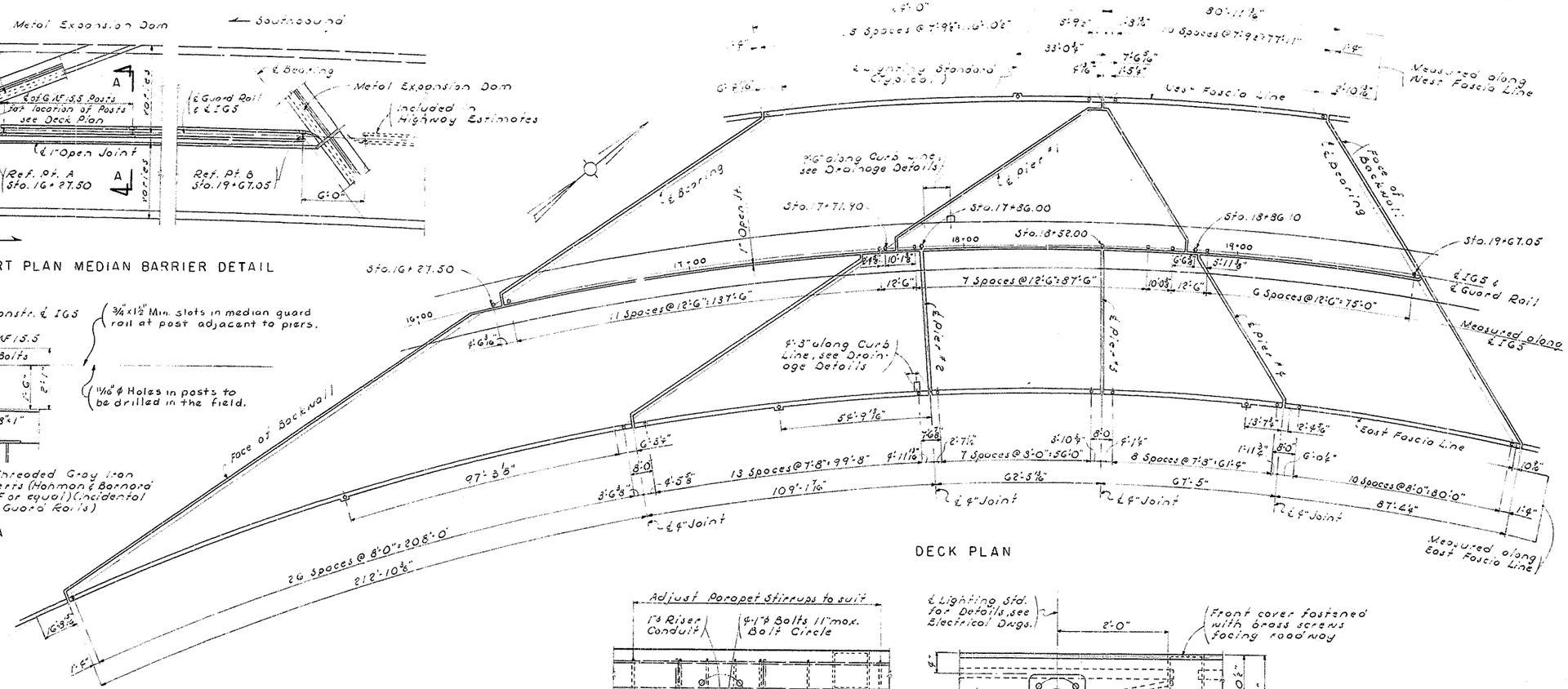
FED. ROAD DIST.	STATE	FED. AID PRO. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



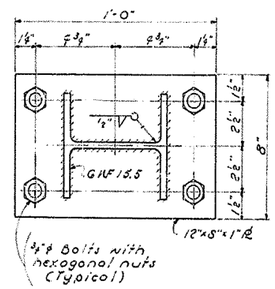
PART PLAN MEDIAN BARRIER DETAIL



SECTION A-A

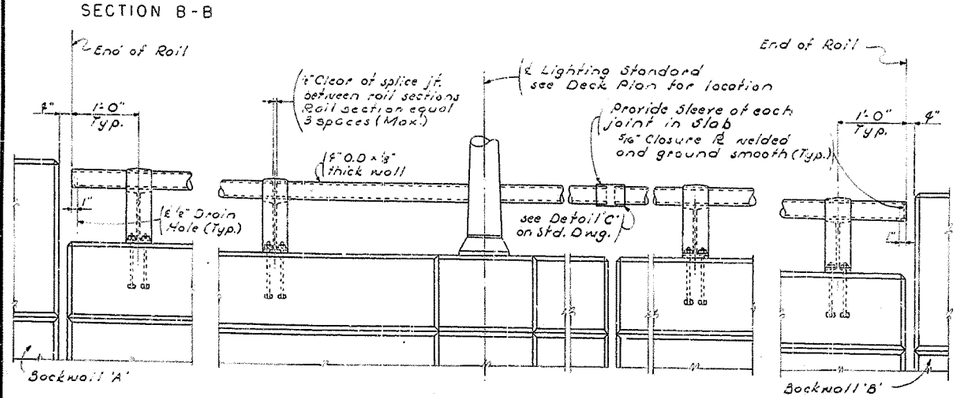


DECK PLAN

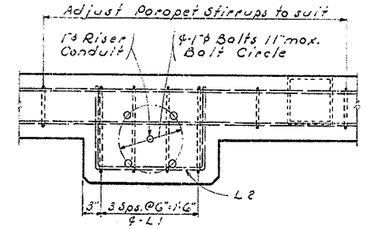


SECTION B-B

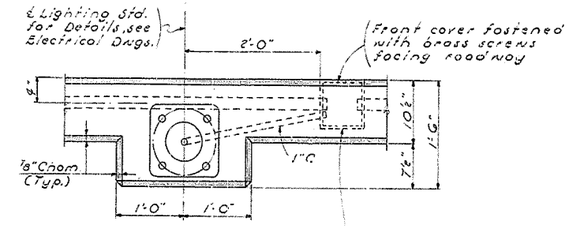
ESTIMATE OF QUANTITIES		
ITEM	UNIT	QUANTITY
Single-Rail Aluminum Handrail	Lin. Ft.	793
Guard Rail Double Face	Lin. Ft.	335



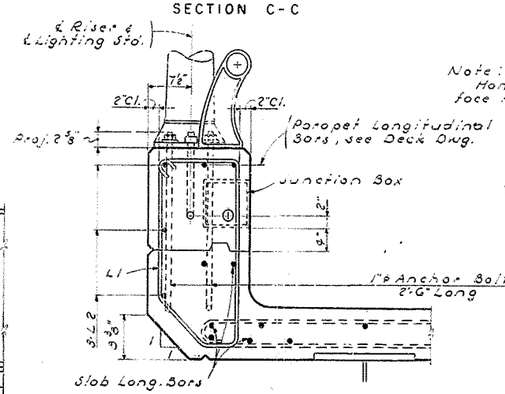
HANDRAIL ELEVATION



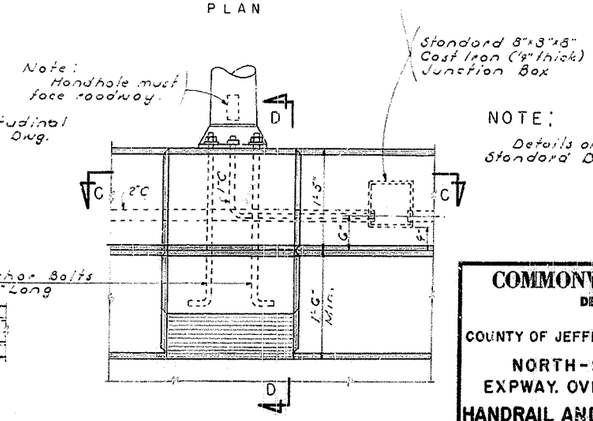
SECTION C-C



PLAN



SECTION D-D



ELEVATION

LIGHTING STANDARD MOUNTING DETAILS

Note: For location of Lighting Standard see Deck Plan.

NOTE:

Details and General Notes on Standard Drawing apply.

SHEET 79 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

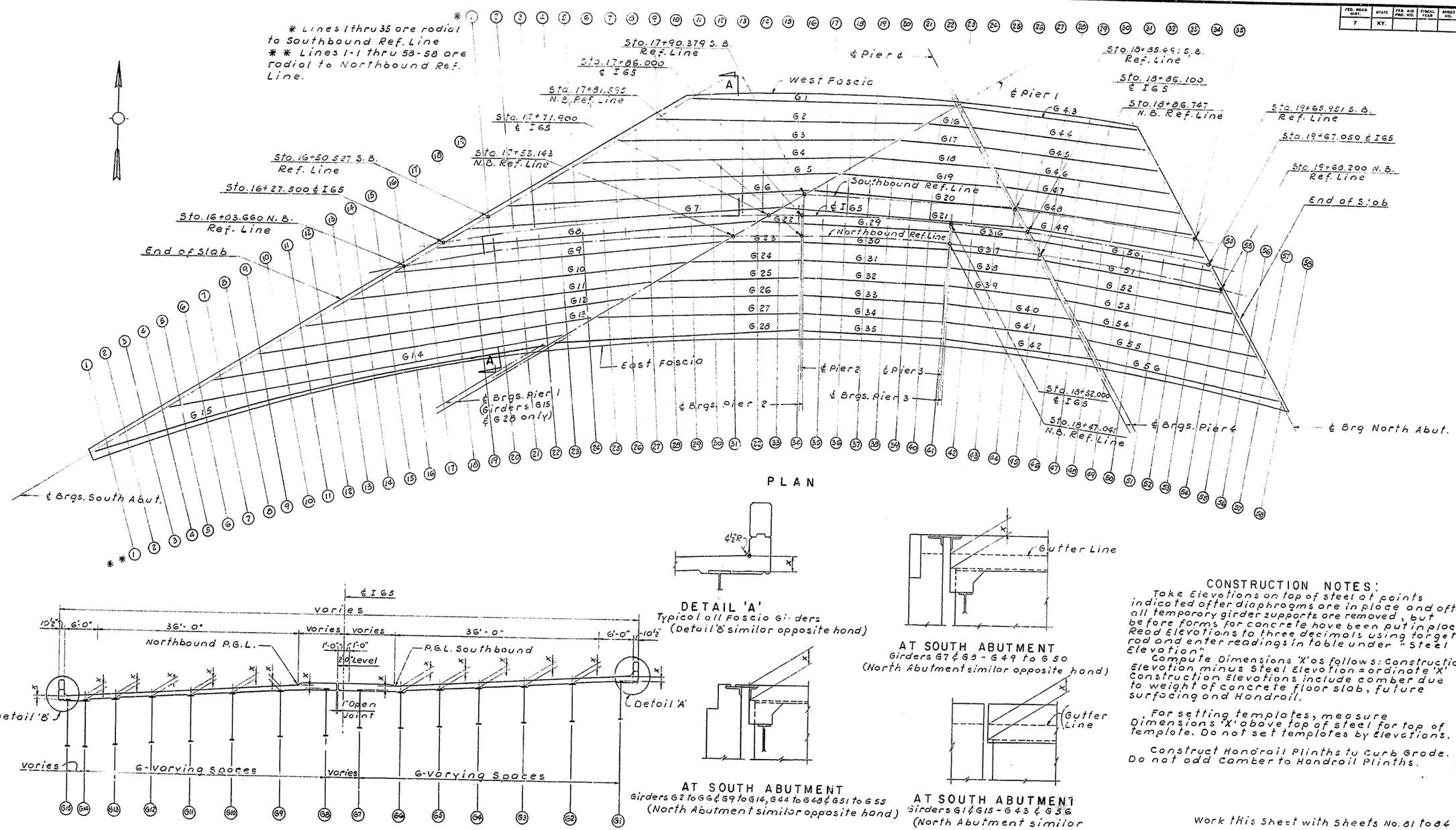
HANDRAIL AND MEDIAN BARRIER DETAILS

STATION 17+00.85 — PROJECT NO. 165-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY J.M. — CHECKED BY R.P. — DATE
DETAILED BY M.N. — CHECKED BY R.P. — DATE
TRACED BY — CHECKED BY — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHEETS
7	KY.				



PLAN

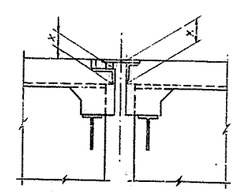
CROSS SECTION A-A
SHOWING DIMENSIONS 'X' FOR ELEVATIONS
LINES 1-1 THRU 35-35 SOUTHBOUND
LINES 1-1 THRU 58-58 NORTHBOUND

DETAIL 'A'
Typical all Fascia Girders
(Detail 'B' similar opposite hand)

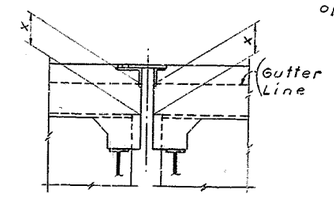
AT SOUTH ABUTMENT
Girders G7 & G8 - G49 to G50
(North Abutment similar opposite hand)

AT SOUTH ABUTMENT
Girders G2 to G6 & G9 to G14, G44 to G48 & G51 to G55
(North Abutment similar opposite hand)

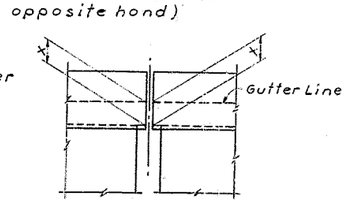
AT SOUTH ABUTMENT
Girders G1 & G15 - G43 & G56
(North Abutment similor opposite hand)



PIERS 1, 2 & 3
All Interior Girders
(Pier 4 similor opposite hand)



PIERS 1, 2 & 3
All Median Girders
(Pier 4 similor opposite hand)



AT PIERS
All Fascia Girders

CONSTRUCTION NOTES:

Take Elevations on top of steel at points indicated after diaphragms are in place and after all temporary girder supports are removed, but before forms for concrete have been put in place. Read Elevations to three decimals using target rod and enter readings in table under "Steel Elevation".

Compute Dimensions 'X' as follows: Construction Elevation minus Steel Elevation = ordinate 'X'. Construction Elevations include camber due to weight of concrete floor slab, future surfacing and Handrail.

For setting templates, measure Dimensions 'X' above top of steel for top of template. Do not set templates by Elevations.

Construct Handrail Plinths to Curb Grade. Do not add Camber to Handrail Plinths.

Work this Sheet with Sheets No. 81 to 84

SHEET 80 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWY. OVER BROOK ST. & WALNUT ST.
CONSTRUCTION ELEVATIONS

STATION 17+00.85 — PROJECT NO. I 65 (9) 134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY J.M.	CHECKED BY H.A.A.	DATE	REVISED
DETAILED BY H.R.	CHECKED BY J.M.	DATE	REVISED
TRACED BY H.R.		DATE	REVISED

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHTS.
7	KY.				

TABLE OF ELEVATIONS FOR SETTING SLAB FORMS

LINE	STATION ON S.B. P.G.L	GIRDER G 1 DIST. FROM ℄ BRG. TO LINE	GIRDER G 1 CONSTR. ELEVATION	GIRDER G 1 STEEL ELEVATION	GIRDER G 1 DIM. 'X'
1-1	16+50.527				
2-2	16+59.850				
3-3	16+69.174				
4-4	16+78.497				
5-5	16+87.821				
6-6	16+97.144				
7-7	17+06.468				
8-8	17+15.791				
9-9	17+25.115				
10-10	17+34.438				
11-11	17+43.762	2'-3 1/8"	488.163		
12-12	17+53.085	12'-0"	488.158		
13-13	17+62.409	21'-8 3/4"	488.144		
14-14	17+71.732	31'-5 3/8"	488.121		
15-15	17+81.056	41'-2"	488.091		
16-16	17+90.379	50'-10 1/2"	488.051		
17-17	17+99.890	60'-9 3/8"	488.002		
18-18	18+09.401	70'-8 1/4"	487.943		
19-19	18+18.912	80'-7 1/8"	487.877		
20-20	18+28.424	90'-6 1/8"	487.801		
21-21	18+37.935	100'-5 1/8"	487.716		
22-22	18+47.446	110'-4 1/4"	487.621		

LINE	STATION ON S.B. P.G.L	GIRDER G 2 DIST. FROM ℄ BRG. TO LINE	GIRDER G 2 CONSTR. ELEVATION	GIRDER G 2 STEEL ELEVATION	GIRDER G 2 DIM. 'X'
1-1	16+50.527				
2-2	16+59.850				
3-3	16+69.174				
4-4	16+78.497				
5-5	16+87.821				
6-6	16+97.144				
7-7	17+06.468				
8-8	17+15.791				
9-9	17+25.115				
10-10	17+34.438	9'-7"	487.678		
11-11	17+43.762	19'-2 3/4"	487.639		
12-12	17+53.085	28'-10 7/16"	487.598		
13-13	17+62.409	38'-6 1/16"	487.554		
14-14	17+71.732	48'-1 5/8"	487.509		
15-15	17+81.056	57'-9 3/16"	487.461		
16-16	17+90.379	67'-4 11/16"	487.410		
17-17	17+99.890	77'-2 5/8"	487.356		
18-18	18+09.401	87'-0 1/2"	487.300		
19-19	18+18.912	96'-10 1/2"	487.241		
20-20	18+28.424	106'-8 5/8"	487.180		
21-21	18+37.935	116'-6 13/16"	487.117		
22-22	18+47.446				

LINE	STATION ON S.B. P.G.L	GIRDER G 3 DIST. FROM ℄ BRG. TO LINE	GIRDER G 3 CONSTR. ELEVATION	GIRDER G 3 STEEL ELEVATION	GIRDER G 3 DIM. 'X'
1-1	16+50.527				
2-2	16+59.850				
3-3	16+69.174				
4-4	16+78.497				
5-5	16+87.821				
6-6	16+97.144				
7-7	17+06.468				
8-8	17+15.791	7'-5 13/16"	487.297		
9-9	17+25.115	17'-0 11/16"	487.257		
10-10	17+34.438	26'-7 7/16"	487.218		
11-11	17+43.762	36'-2 1/8"	487.177		
12-12	17+53.085	45'-8 3/4"	487.134		
13-13	17+62.409	55'-3 3/8"	487.087		
14-14	17+71.732	64'-9 15/16"	487.039		
15-15	17+81.056	74'-4 5/16"	486.988		
16-16	17+90.379	83'-11 3/16"	486.934		
17-17	17+99.890	93'-8 3/16"	486.877		
18-18	18+09.401	103'-5 1/4"	486.817		
19-19	18+18.912	113'-2 7/16"	486.755		
20-20	18+28.424	122'-11 3/4"	486.690		
21-21	18+37.935				
22-22	18+47.446				

LINE	STATION ON S.B. P.G.L	GIRDER G 4 DIST. FROM ℄ BRG. TO LINE	GIRDER G 4 CONSTR. ELEVATION	GIRDER G 4 STEEL ELEVATION	GIRDER G 4 DIM. 'X'
1-1	16+50.527				
2-2	16+59.850				
3-3	16+69.174				
4-4	16+78.497				
5-5	16+87.821				
6-6	16+97.144				
7-7	17+06.468	5'-8 1/2"	486.924		
8-8	17+15.791	15'-2 1/16"	486.885		
9-9	17+25.115	24'-8 5/16"	486.842		
10-10	17+34.438	34'-2 1/8"	486.801		
11-11	17+43.762	43'-7 13/16"	486.756		
12-12	17+53.085	53'-1 1/2"	486.710		
13-13	17+62.409	62'-7 3/16"	486.661		
14-14	17+71.732	72'-0 13/16"	486.612		
15-15	17+81.056	81'-6 1/8"	486.560		
16-16	17+90.379	91'-0 1/4"	486.507		
17-17	17+99.890	100'-6 1/16"	486.452		
18-18	18+09.401	110'-0 1/4"	486.394		
19-19	18+18.912	119'-10 1/2"	486.334		
20-20	18+28.424	129'-6 15/16"	486.272		
21-21	18+37.935				
22-22	18+47.446				

LINE	STATION ON S.B. P.G.L	GIRDER G 5 DIST. FROM ℄ BRG. TO LINE	GIRDER G 5 CONSTR. ELEVATION	GIRDER G 5 STEEL ELEVATION	GIRDER G 5 DIM. 'X'
1-1	16+50.527				
2-2	16+59.850				
3-3	16+69.174				
4-4	16+78.497				
5-5	16+87.821				
6-6	16+97.144	4'-2 11/16"	486.577		
7-7	17+06.468	13'-7 13/16"	486.539		
8-8	17+15.791	23'-0 7/8"	486.500		
9-9	17+25.115	32'-5 3/8"	486.458		
10-10	17+34.438	41'-10 5/8"	486.414		
11-11	17+43.762	51'-3 7/16"	486.368		
12-12	17+53.085	60'-8 3/16"	486.320		
13-13	17+62.409	70'-0 15/16"	486.271		
14-14	17+71.732	79'-5 11/16"	486.219		
15-15	17+81.056	90'-10 1/2"	486.165		
16-16	17+90.379	98'-3 3/8"	486.110		
17-17	17+99.890	107'-8 5/16"	486.053		
18-18	18+09.401	117'-1 3/8"	485.993		
19-19	18+18.912	126'-8 13/16"	485.930		
20-20	18+28.424				
21-21	18+37.935				
22-22	18+47.446				

LINE	STATION ON S.B. P.G.L	GIRDER G 6 DIST. FROM ℄ BRG. TO LINE	GIRDER G 6 CONSTR. ELEVATION	GIRDER G 6 STEEL ELEVATION	GIRDER G 6 DIM. 'X'
1-1	16+50.527				
2-2	16+59.850				
3-3	16+69.174				
4-4	16+78.497				
5-5	16+87.821	5'-0 3/8"	486.250		
6-6	16+97.144	12'-4 11/16"	486.214		
7-7	17+06.468	21'-8 13/16"	486.175		
8-8	17+15.791	31'-1"	486.133		
9-9	17+25.115	40'-5 1/16"	486.090		
10-10	17+34.438	49'-9"	486.044		
11-11	17+43.762	59'-0 7/8"	485.996		
12-12	17+53.085	68'-4 13/16"	485.946		
13-13	17+62.409	77'-8 11/16"	485.894		
14-14	17+71.732	87'-0 9/16"	485.840		
15-15	17+81.056	96'-4 9/16"	485.783		
16-16	17+90.379	105'-8 9/16"	485.725		
17-17	17+99.890	115'-0 5/8"	485.664		
18-18	18+09.401	124'-4 7/8"	485.600		
19-19	18+18.912	133'-9 3/16"	485.535		
20-20	18+28.424				
21-21	18+37.935				
22-22	18+47.446				

LINE	STATION ON S.B. P.G.L	GIRDER G 7 DIST. FROM ℄ BRG. TO LINE	GIRDER G 7 CONSTR. ELEVATION	GIRDER G 7 STEEL ELEVATION	GIRDER G 7 DIM. 'X'
1-1	16+50.527				
2-2	16+59.850				
3-3	16+69.174	11'-4 15/16"	486.221		
4-4	16+78.497	20'-8 3/8"	486.221		
5-5	16+87.821	29'-11 11/16"	486.211		
6-6	16+97.144	39'-2 15/16"	486.193		
7-7	17+06.468	48'-6 1/16"	486.166		
8-8	17+15.791	57'-9 3/16"	486.131		
9-9	17+25.115	67'-0 5/16"	486.088		
10-10	17+34.438	76'-3 1/4"	486.035		
11-11	17+43.762	85'-6 5/16"	485.974		
12-12	17+53.085	94'-9 3/8"	485.905		
13-13	17+62.409	104'-0 1/2"	485.827		
14-14	17+71.732	113'-3 11/16"	485.741		
15-15	17+81.056	122'-7"	485.646		
16-16	17+90.379	131'-10 3/8"	485.543		
17-17	17+99.890	141'-2"	485.430		
18-18	18+09.401				
19-19	18+18.912				
20-20	18+28.424				
21-21	18+37.935				
22-22	18+47.446				

LINE	STATION ON S.B. P.G.L	GIRDER G 16 DIST. FROM ℄ BRG. TO LINE	GIRDER G 16 CONSTR. ELEVATION	GIRDER G 16 STEEL ELEVATION	GIRDER G 16 DIM. 'X'
16-16	17+90.379				
17-17	17+99.890				
18-18	18+09.401				
19-19	18+18.912				
20-20	18+28.424				
21-21	18+37.935				
22-22	18+47.446	3'-2 5/8"	487.056		
23-23	18+56.957	13'-0 3/4"	487.011		
24-24	18+66.468				
25-25	18+75.979				
26-26	18+85.491				

LINE	STATION ON S.B. P.G.L	GIRDER G 17 DIST. FROM ℄ BRG. TO LINE	GIRDER G 17 CONSTR. ELEVATION	GIRDER G 17 STEEL ELEVATION	GIRDER G 17 DIM. 'X'
16-16	17+90.379				
17-17	17+99.890				
18-18	18+09.401				
19-19	18+18.912				
20-20	18+28.424				
21-21	18+37.935	5'-9 13/16"	486.639		
22-22	18+47.446	15'-7"	486.596		
23-23	18+56.957	25'-4 1/8"	486.549		
24-24	18+66.468	35'-1 3/8"	486.499		
25-25	18+75.979				
26-26	18+85.491				

LINE	STATION ON S.B. P.G.L	GIRDER G 18 DIST. FROM ℄ BRG. TO LINE	GIRDER G 18 CONSTR. ELEVATION	GIRDER G 18 STEEL ELEVATION	GIRDER G 18 DIM. 'X'
16-16	17+90.379				
17-17	17+99.890				
18-18	18+09.401				
19-19	18+18.912				
20-20	18+28.424				
21-21	18+37.935	8'-6 7/8"	486.236		
22-22	18+47.446	18'-3 1/8"	486.198		
23-23	18+56.957	27'-11 5/16"	486.152		
24-24	18+66.468	37'-7 9/16"	486.101		
25-25	18+75.979	47'-3 7/8"	486.042		
26-26	18+85.491				

LINE	STATION ON S.B. P.G.L	GIRDER G 19 DIST. FROM ℄ BRG. TO LINE	GIRDER G 19 CONSTR. ELEVATION	GIRDER G 19 STEEL ELEVATION	GIRDER G 19 DIM. 'X'
16-16	17+90.379				
17-17	17+99.890				
18-18	18+09.401				
19-19	18+18.912				
20-20	18+28.424				
21-21	18+37.935	1'-10 1/2"	485.871		
22-22	18+47.446	11'-5 7/8"	485.836		
23-23	18+56.957	21'-1 1/8"	485.795		
24-24	18+66.468	30'-8 7/16"	485.750		
25-25	18+75.979	40'-3 11/16"	485.700		
26-26	18+85.491	49'-11"	485.696		
27-27	18+94.431	59'-6 5/8"	485.587		
28-28	19+03.371	69'-1 3/4"	485.523		
29-29	19+12.311				
30-30	19+21.251				
31-31	19+30.191				
32-32	19+39.131				
33-33	19+48.071				
34-34	19+57.011				
35-35	19+65.951				

LINE	STATION ON S.B. P.G.L	GIRDER G 20 DIST. FROM ℄ BRG. TO LINE	GIRDER G 20 CONSTR. ELEVATION	GIRDER G 20 STEEL ELEVATION	GIRDER G 20 DIM. 'X'
16-16	17+90.379				
17-17	17+99.890				
18-18	18+09.401				
19-19	18+18.912				
20-20	18+28.424				
21-21	18+37.935	5'-0 3/16"	485.488		
22-22	18+47.446	14'-6 5/8"	485.456		
23-23	18+56.957	24'-1 1/16"	485.419		
24-24	18+66.468	33'-7 3/8"	485.377		
25-25	18+75.979	43'-1 3/4"	485.326		
26-26	18+85.491	52'-8 1/16"	485.274		
27-27	18+94.431	62'-2 7/16"	485.214		
28-28	19+03.371	71'-8 13/16"	485.149		
29-29	19+12.311	81'-3 5/16"	485.078		
30-30	19+21.251				
31-31	19+30.191				
32-32	19+39.131				
33-33	19+48.071				
34-34	19+57.011				
35-35	19+65.951				

LINE	STATION ON S.B. P.G.L	GIRDER G 21 DIST. FROM ℄ BRG. TO LINE	GIRDER G 21 CONSTR. ELEVATION	GIRDER G 21 STEEL ELEVATION	GIRDER G 21 DIM. 'X'
16-16	17+90.379				
17-17	17+99.890				
18-18	18+09.401				
19-19	18+18.912				
20-20	18+28.424				
21-21	18+37.935	8'-3 11/16"	485.421		
22-22	18+47.446	17'-9 5/16"	485.416		
23-23	18+56.957	27'-2 13/16"	485.398		
24-24	18+66.468	36'-8 1/4"	485.370		
25-25	18+75.979	46'-1 11/16"	485.331		
26-26	18+85.491	55'-7 1/16"	485.280		
27-27	18+94.431	65'-0 7/16"	485.219		
28-28	19+03.371	74'-5 7/8"	485.147		
29-29	19+12.311	83'-11 5/16"	485.063		
30-30	19+21.251	93'-4 7/8"	484.968		
31-31	19+30.191	102'-10 7/16"	484.863		
32-32	19+39.131				
33-33	19+48.071				
34-34	19+57.011				
35-35	19+65.951				

LINE	STATION ON S.B. P.G.L	GIRDER G 43 DIST. FROM ℄ BRG. TO LINE	GIRDER G 43 CONSTR. ELEVATION	GIRDER G 43 STEEL ELEVATION	GIRDER G 43 DIM. 'X'
24-24	18+66.468	8'-8 9/16"	487.494		
25-25	18+75.979	18'-7 3/8"	487.462		
26-26	18+85.491	28'-6 7/16"	487.422		
27-27	18+94.431	37'-10 1/2"	487.376		
28-28	19+03.371	47'-[illegible]	487.324		
29-29	19+12.311	5[illegible]'-5[illegible]	487.265		
30-30	19+21.251	6[illegible]'-9[illegible]	487.198		
31-31	19+30.191	75'-1 13/16"	487.125		
32-32	19+39.131				
33-33	19+48.071				
34-34	19+57.011				
35-35	19+65.951				

LINE	STATION ON S.B. P.G.L	GIRDER G 44 DIST. FROM ℄ BRG. TO LINE	GIRDER G 44 CONSTR. ELEVATION	GIRDER G 44 STEEL ELEVATION	GIRDER G 44 DIM. 'X'
24-24	18+66.468	3'-4 7/8"	486.971		
25-25	18+75.979	13'-3 1/16"	486.934		
26-26	18+85.491	23'-1 1/8"	486.892		
27-27	18+94.431	32'-4 1/8"	486.849		
28-28	19+03.371	41'-7 1/16"	486.800		
29-29	19+12.311	50'-10 1/16"	486.747		
30-30	19+21.251	60'-1 1/16"	486.689		
31-31	19+30.191	69'-4 1/16"	486.627		
32-32	19+39.131				
33-33	19+48.071				
34-34	19+57.011				
35-35	19+65.951				

LINE	STATION ON S.B. P.G.L	GIRDER G 45 DIST. FROM ℄ BRG. TO LINE	GIRDER G 45 CONSTR. ELEVATION	GIRDER G 45 STEEL ELEVATION	GIRDER G 45 DIM. 'X'
24-24	18+66.468				
25-25	18+75.979	7'-10 11/16"	486.462		
26-26	18+85.491	17'-7 7/8"	486.425		
27-27	18+94.431	26'-10"	486.384		
28-28	19+03.371	36'-0 1/8"	486.339		
29-29	19+12.311	45'-2 3/16"	486.288		
30-30	19+21.251	54'-4 5/16"	486.233		
31-31	19+30.191	63'-6 7/16"	486.172		
32-32	19+39.131	72'-8 5/8"	486.106		
33-33	19+48.071				
34-34	19+57.011				
35-35	19+65.951				

LINE	STATION ON S.B. P.G.L	GIRDER G 46 DIST. FROM ℄ BRG. TO LINE	GIRDER G 46 CONSTR. ELEVATION	GIRDER G 46 STEEL ELEVATION	GIRDER G 46 DIM. 'X'
24-24	18+66.468				
25-25	18+75.979	2'-6 1/4"	485.988		
26-26	18+85.491	12'-2 5/8"	485.953		
27-27	18+94.431	21'-3 1/8"	485.915		
28-28	19+03.371	30'-5 1/8"	485.872		
29-29	19+12.311	39'-6 5/8"	485.824		
30-30	19+21.251	48'-7 9/16"	485.772		
31-31	19+30.191	57'-8 13/16"	485.715		
32-32	19+39.131	66'-10 1/16"	485.653		
33-33	19+48.071	75'-11 3/8"	485.586		
34-34	19+57.011				
35-35	19+65.951				

LINE	STATION ON S.B. P.G.L	GIRDER G 47 DIST. FROM ℄ BRG. TO LINE	GIRDER G 47 CONSTR. ELEVATION	GIRDER G 47 STEEL ELEVATION	GIRDER G 47 DIM. 'X'
24-24	18+66.468				
25-25	18+75.979				
26-26	18+85.491	6'-9 5/16"	485.482		
27-27	18+94.431	15'-9 3/4"	485.446		
28-28	19+03.371	24'-10 1/8"	485.406		
29-29	19+12.311	33'-10 1/2"	485.361		
30-30	19+21.251	42'-10 7/8"	485.311		
31-31	19+30.191	51'-11 1/4"	485.257		
32-32	19+39.131	60'-11 5/8"	485.199		
33-33	19+48.071	70'-0"	485.135		
34-34	19+57.011	79'-0 1/2"	485.068		
35-35	19+65.951				

LINE	STATION ON S.B. P.G.L	GIRDER G 48 DIST. FROM ℄ BRG. TO LINE	GIRDER G 48 CONSTR. ELEVATION	GIRDER G 48 STEEL ELEVATION	GIRDER G 48 DIM. 'X'
24-24	18+66.468				
25-25	18+75.979				
26-26	18+85.491	1'-4"	485.012		
27-27	18+94.431	10'-3 5/8"	484.981		
28-28	19+03.371	19'-3 3/16"	484.944		
29-29	19+12.311	28'-2 11/16"	484.903		
30-30	19+21.251	37'-2 3/16"	484.857		
31-31	19+30.191	46'-1 11/16"	484.806		
32-32	19+39.131	55'-1 3/16"	484.750		
33-33	19+48.071	64'-0 11/16"	484.689		
34-34	19+57.011	73'-0 5/16"	484.623		
35-35	19+65.951				

LINE	STATION ON S.B. P.G.L	GIRDER G 49 DIST. FROM ℄ BRG. TO LINE	GIRDER G 49 CONSTR. ELEVATION	GIRDER G 49 STEEL ELEVATION	GIRDER G 49 DIM. 'X'
24-24	18+66.468				
25-25	18+75.979				
26-26	18+85.491				
27-27	18+94.431	4'-9 7/16"	484.820		
28-28	19+03.371	13'-8 3/16"	484.807		
29-29	19+12.311	22'-6 7/8"	484.783		
30-30	19+21.251	31'-5 9/16"	484.750		
31-31	19+30.191	40'-4 3/16"	484.705		
32-32	19+39.131	49'-2 13/16"	484.650		
33-33	19+48.071	58'-1 7/16"	484.584		
34-34	19+57.011	67'-0 1/8"	484.503		
35-35	19+65.951	75'-10 7/8"	484.420		

work this sheet with Sheet No. 80

SHEET 81 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY

EXPWAY. OVER BROOK ST. & WALNUT ST.

CONSTRUCTION ELEVATIONS

STATION 17+00.85 — PROJECT NO. I 65(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — NOTE

DESIGNED BY JM — CHECKED BY HAA — DATE
DETAILED BY NP — CHECKED BY JM — DATE
TRACED BY NP — CHECKED BY JM — DATE
REVISED — REVISED — REVISED

FED. ROAD DIST.	STATE	FED. AID PRO. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

TABLE OF ELEVATIONS FOR SETTING SLAB FORMS

LINE	STATION ON N.B.P.G.L.	GIRDER G 8 DIST. FROM ℄ BRG. TO LINE	GIRDER G 8 CONSTR. ELEV.	GIRDER G 8 STEEL ELEV	GIRDER G 8 DIM 'X'	GIRDER G 9 DIST. FROM ℄ BRG. TO LINE	GIRDER G 9 CONSTR ELEV.	GIRDER G 9 STEEL ELEV	GIRDER G 9 DIM. 'X'
9-9	15+33.901								
10-10	15+43.866								
11-11	15+53.832								
12-12	15+63.798								
13-13	15+73.763								
14-14	15+83.729								
15-15	15+93.694								
16-16	16+03.660					6'-7 1/2"	486.180		
17-17	16+13.625					16'-6 3/4"	486.149		
18-18	16+23.591	5'-10 3/16"	486.277			26'-6 1/16"	486.113		
19-19	16+33.556	15'-10 9/16"	486.280			36'-5 1/2"	486.069		
20-20	16+43.522	25'-10 3/4"	486.269			46'-4 5/16"	486.018		
21-21	16+53.488	35'-10 7/8"	486.246			56'-3 5/16"	485.963		
22-22	16+63.453	45'-10 7/8"	486.215			66'-2 1/4"	485.906		
23-23	16+73.419	55'-10 13/16"	486.175			76'-1 3/16"	485.850		
24-24	16+83.384	65'-10 3/4"	486.128			86'-0 1/16"	485.792		
25-25	16+93.350	75'-10 5/8"	486.074			95'-11"	485.734		
26-26	17+03.315	85'-10 9/16"	486.012			105'-10"	485.676		
27-27	17+13.281	95'-10 1/2"	485.942			115'-9 1/16"	485.618		
28-28	17+23.246	105'-10 9/16"	485.864			125'-8 1/4"	485.559		
29-29	17+33.212	115'-10 11/16"	485.779			135'-7 9/16"	485.500		
30-30	17+43.177	125'-10 7/8"	485.686			145'-7"	485.439		
31-31	17+53.143	135'-11 1/4"	485.586						
32-32	17+62.627	145'-6"	485.483						

LINE	GIRDER G 10 DIST. FROM ℄ BRG. TO LINE	GIRDER G 10 CONSTR ELEV.	GIRDER G 10 STEEL ELEV.	GIRDER G 10 DIM 'X'	GIRDER G 11 DIST. FROM ℄ BRG. TO LINE	GIRDER G 11 CONSTR ELEV	GIRDER G 11 STEEL ELEV.	GIRDER G 11 DIM 'X'	GIRDER G 12 DIST. FROM ℄ BRG. TO LINE	GIRDER G 12 CONSTR. ELEV	GIRDER G 12 STEEL ELEV.	GIRDER G 12 DIM 'X'
9-9												
10-10									0'-9 7/8"	485.067		
11-11									10'-7 5/16"	485.068		
12-12									20'-4 1/2"	485.061		
13-13					9'-0"	485.439			30'-1 9/16"	485.048		
14-14					18'-9 15/16"	485.425			39'-10 5/16"	485.020		
15-15	7'-7 15/16"	485.807			28'-7 5/8"	485.405			49'-7"	485.003		
16-16	17'-6 5/8"	485.784			38'-5 3/16"	485.378			59'-3 1/2"	484.971		
17-17	27'-5 1/16"	485.755			48'-2 9/16"	485.345			68'-11 7/8"	484.932		
18-18	37'-3 7/16"	485.718			57'-11 7/16"	485.305			78'-8 3/16"	484.887		
19-19	47'-1 5/8"	485.676			67'-9"	485.259			88'-4 3/8"	484.837		
20-20	56'-11 11/16"	485.627			77'-6 1/8"	485.206			98'-0 9/16"	484.779		
21-21	66'-9 3/4"	485.572			87'-3 5/16"	485.147			107'-8 3/4"	484.715		
22-22	76'-7 7/8"	485.511			97'-0 1/4"	485.082			117'-5"	484.646		
23-23	86'-5 11/16"	485.451			106'-9 5/16"	485.017			127'-1 3/16"	484.577		
24-24	96'-3 11/16"	485.390			116'-6 7/16"	484.952			136'-9 1/2"	484.508		
25-25	106'-1 11/16"	485.330			126'-3 9/16"	484.887			146'-5 7/8"	484.439		
26-26	115'-11 3/4"	485.269			136'-0 13/16"	484.822			156'-2 3/8"	484.370		
27-27	125'-9 7/8"	485.208			145'-10 3/16"	484.756						
28-28	135'-8 1/8"	485.187			155'-7 11/16"	484.690						
29-29	145'-6 1/2"	485.087										
30-30	155'-5 1/16"	485.026										

LINE	STATION	GIRDER G 13 DIST. FROM ℄ BRG. TO LINE	GIRDER G 13 CONSTR. ELEV.	GIRDER G 13 STEEL ELEV	GIRDER G 13 DIM 'X'	GIRDER G 14 DIST. FROM ℄ BRG. TO LINE	GIRDER G 14 CONSTR ELEV.	GIRDER G 14 STEEL ELEV	GIRDER G 14 DIM 'X'	GIRDER G 15 DIST. FROM ℄ BRG. TO LINE	GIRDER G 15 CONSTR ELEV.	GIRDER G 15 STEEL ELEV.	GIRDER G 15 DIM 'X'
1-1	14+54.177									7'-11 9/16"	483.511		
2-2	14+64.142									17'-6 3/16"	483.581		
3-3	14+74.108									27'-0 3/4"	483.642		
4-4	14+84.073									36'-7 3/16"	483.692		
5-5	14+94.039					6'-3 7/8"	484.297			46'-1 9/16"	483.765		
6-6	15+04.004					15'-11 1/4"	484.313			55'-7 7/8"	483.840		
7-7	15+13.970	2'-8 7/16"	484.692			25'-7 1/8"	484.328			65'-2 3/16"	483.910		
8-8	15+23.935	12'-5 9/16"	484.699			35'-2 13/16"	484.335			74'-8 9/16"	483.971		
9-9	15+33.901	22'-2 3/16"	484.699			44'-10 1/4"	484.332			84'-2 7/8"	484.016		
10-10	15+43.866	31'-10 9/16"	484.693			54'-5 1/2"	484.326			93'-9 3/16"	484.052		
11-11	15+53.832	41'-6 11/16"	484.681			64'-0 9/16"	484.318			103'-3 1/2"	484.080		
12-12	15+63.798	51'-2 11/16"	484.663			73'-7 1/2"	484.305			112'-9 7/8"	484.096		
13-13	15+73.763	60'-10 7/16"	484.638			83'-2 5/16"	484.286			122'-4 3/16"	484.100		
14-14	15+83.729	70'-6 1/8"	484.607			92'-9 1/16"	484.257			131'-10 1/2"	484.089		
15-15	15+93.694	80'-1 5/8"	484.570			102'-3 13/16"	484.218			141'-4 13/16"	484.062		
16-16	16+03.660	89'-9 1/8"	484.526			111'-10 7/16"	484.173			150'-11 3/16"	484.023		
17-17	16+13.625	99'-4 1/2"	484.477			121'-5 1/16"	484.123			160'-5 1/2"	483.972		
18-18	16+23.591	108'-11 13/16"	484.421			130'-11 3/8"	484.073			169'-11 13/16"	483.916		
19-19	16+33.556	118'-7 3/16"	484.358			140'-6 7/16"	484.016			179'-6 3/16"	483.844		
20-20	16+43.522	128'-2 1/2"	484.290			150'-1 3/16"	483.949			189'-0 5/8"	483.761		
21-21	16+53.488	137'-9 15/16"	484.217			159'-8"	483.879			198'-7 3/16"	483.666		
22-22	16+63.453	147'-5 3/8"	484.143			169'-3"	483.810			208'-1 3/16"	483.567		
23-23	16+73.419	157'-0 15/16"	484.070			178'-10 1/16"	483.748						
24-24	16+83.384	166'-8 9/16"	483.997										

Work this Sheet with Sheet No. 80

DESIGNED BY J.M. CHECKED BY H.A.R. DATE
DETAILED BY N.P. CHECKED BY J.M. DATE
TRACED BY N.P. CHECKED BY J.M. DATE
REVISED DATE
REVISED DATE
REVISED DATE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY

EXPWAY. OVER BROOK ST. & WALNUT ST.

CONSTRUCTION ELEVATIONS

STATION 17+00.85 — PROJECT NO. I 65 (9) 134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

TABLE OF ELEVATIONS FOR SETTING SLAB FORMS

LINE	STATION ON N.B.PG.L.	GIRDER G 22 DIST. FROM ℄ BRG. TO LINE	GIRDER G 22 CONSTR. ELEV.	GIRDER G 22 STEEL ELEV.	GIRDER G 22 DIM. 'X'	GIRDER G 23 DIST. FROM ℄ BRG. TO LINE	GIRDER G 23 CONSTR. ELEV.	GIRDER G 23 STEEL ELEV.	GIRDER G 23 DIM. 'X'	GIRDER G 24 DIST. FROM ℄ BRG. TO LINE	GIRDER G 24 CONSTR. ELEV.	GIRDER G 24 STEEL ELEV.	GIRDER G 24 DIM. 'X'
23-23	16+73.419												
24-24	16+83.384												
25-25	16+93.350												
26-26	17+03.315												
27-27	17+13.281												
28-28	17+23.246												
29-29	17+33.212												
30-30	17+43.177									9'-9 7/8"	484.987		
31-31	17+53.143					4'-8 7/16"	485.386			19'-7 3/8"	484.943		
32-32	17+62.627					14'-1 15/16"	485.344			29'-0"	484.897		
33-33	17+72.111	8'-10 7/16"	485.425			23'-7 1/2"	485.295			38'-4 5/8"	484.846		
34-34	17+81.595	18'-4 7/8"	485.372			33'-1 1/16"	485.249			47'-9 3/8"	484.794		

LINE	STATION ON N.B.PG.L.	GIRDER G 25 DIST. FROM ℄ BRG. TO LINE	GIRDER G 25 CONSTR. ELEV.	GIRDER G 25 STEEL ELEV.	GIRDER G 25 DIM. 'X'	GIRDER G 26 DIST. FROM ℄ BRG. TO LINE	GIRDER G 26 CONSTR. ELEV.	GIRDER G 26 STEEL ELEV.	GIRDER G 26 DIM. 'X'	GIRDER G 27 DIST. FROM ℄ BRG. TO LINE	GIRDER G 27 CONSTR. ELEV.	GIRDER G 27 STEEL ELEV.	GIRDER G 27 DIM. 'X'	GIRDER G 28 DIST. FROM ℄ BRG. TO LINE	GIRDER G 28 CONSTR. ELEV.	GIRDER G 28 STEEL ELEV.	GIRDER G 28 DIM. 'X'
23-23	16+73.419																
24-24	16+83.384													4'-7 5/16"	483.480		
25-25	16+93.350													14'-1 15/16"	483.458		
26-26	17+03.315									6'-7 5/8"	483.949			23'-8 7/16	483.428		
27-27	17+13.281					0'-11 3/8"	484.305			16'-3 3/16"	483.909			33' 2 7/8"	483.390		
28-28	17+23.246					10'-7 7/8"	484.270			25'-10 11/16	483.863			42'-9 1/4"	483.346		
29-29	17+33.212	5'-2 3/8"	484.644			20'-4 1/4"	484.229			35'-6 1/8"	483.813			52'-3 5/8"	483.295		
30-30	17+43.177	14'-11 3/4"	484.610			30'-0 5/8"	484.182			45'-1 9/16"	483.758			61'-10"	483.237		
31-31	17+53.143	24'-9 1/16"	484.568			39'-9"	484.130			54'-8 15/16"	483.699			71'-4 3/8"	483.171		
32-32	17+62.627	34'-6 5/8"	484.518			49'-5 3/8"	484.073			64'-4 3/8"	483.634			80'-10 13/16	483.098		
33-33	17+72.111	43'-10 11/16	484.464			58'-8 1/8"	484.016			73'-6 1/4"	483.569			89'-11 13/16	483.021		
34-34	17+81.595	53'-7 13/16	484.403			67'-11"	483.949			82'-8 3/16	483.499			99'-0 7/8"	482.939		
		62'-5 5/8"	484.339			77'-1 15/16"	483.884			91'-10 3/16	483.428			108'-2 1/16"	482.852		

LINE	STATION ON N.B.PG.L.	GIRDER G 29 DIST. FROM ℄ BRG. TO LINE	GIRDER G 29 CONSTR. ELEV.	GIRDER G 29 STEEL ELEV.	GIRDER G 29 DIM. 'X'	GIRDER G 30 DIST. FROM ℄ BRG. TO LINE	GIRDER G 30 CONSTR. ELEV.	GIRDER G 30 STEEL ELEV.	GIRDER G 30 DIM. 'X'	GIRDER G 31 DIST. FROM ℄ BRG. TO LINE	GIRDER G 31 CONSTR. ELEV.	GIRDER G 31 STEEL ELEV.	GIRDER G 31 DIM. 'X'
35-35	17+90.944	8'-8"	485.355			8'-6 15/16"	485.219			8'-5 13/16"	484.760		
36-36	18+00.293	18'-0 13/16"	485.329			17'-10 7/8"	485.184			17'-8 7/8"	484.722		
37-37	18+09.643	27'-5 5/8"	485.290			27'-2 3/4"	485.161			26'-11 7/8"	484.678		
38-38	18+18.993	36'-10 3/8"	485.237			36'-6 5/8"	485.089			36'-2 7/8"	484.626		
39-39	18+28.342	46'-3 3/16"	485.171			45'-10 9/16	485.029			45'-5 7/8"	484.567		
40-40	18+37.692	55'-8 1/16"	485.092			55'-2 1/2"	484.960			54'-8 15/16"	484.502		
41-41	18+47.041	65'-0 15/16	485.003			64'-6 1/2"	484.887			64'-0 1/16"	484.432		

LINE	STATION ON N.B.PG.L.	GIRDER G 32 DIST. FROM ℄ BRG. TO LINE	GIRDER G 32 CONSTR. ELEV.	GIRDER G 32 STEEL ELEV.	GIRDER G 32 DIM. 'X'	GIRDER G 33 DIST. FROM ℄ BRG. TO LINE	GIRDER G 33 CONSTR. ELEV.	GIRDER G 33 STEEL ELEV.	GIRDER G 33 DIM. 'X'	GIRDER G 34 DIST. FROM ℄ BRG. TO LINE	GIRDER G 34 CONSTR. ELEV.	GIRDER G 34 STEEL ELEV.	GIRDER G 34 DIM. 'X'	GIRDER G 35 DIST. FROM ℄ BRG. TO LINE	GIRDER G 35 CONSTR. ELEV.	GIRDER G 35 STEEL ELEV.	GIRDER G 35 DIM. 'X'
35-35	17+90.944	8'-4 3/4"	484.305			8'-3 5/8"	483.850			8'-2 9/16"	483.392			8'-1 7/16"	482.820		
36-36	18+00.293	17'-6 7/8"	484.267			17'-4 7/8"	483.813			17'-2 15/16"	483.352			17'-0 15/16"	482.783		
37-37	18+09.643	26'-9"	484.223			26'-8 1/8"	483.769			26'-3 1/4"	483.306			26'-0 3/8"	482.759		
38-38	18+18.993	35'-11 7/8"	484.172			35'-7 7/8"	483.717			35'-3 9/16"	483.255			34'-11 13/16	482.686		
39-39	18+28.342	45'-1 1/4"	484.112			44'-8 9/16	483.658			44'-3 15/16"	483.197			43'-11 1/4"	482.625		
40-40	18+37.692	54'-3 7/16	484.047			53'-9 7/8"	483.592			53'-4 9/16"	483.134			52'-10 3/4"	482.557		
41-41	18+47.041	63'-5 5/8"	483.977			62'-11 3/16	483.522			62'-4 3/4"	483.067			61'-10 5/16	482.483		

LINE	STATION ON N.B.PG.L.	GIRDER G 36 DIST. FROM ℄ BRG. TO LINE	GIRDER G 36 CONSTR. ELEV.	GIRDER G 36 STEEL ELEV.	GIRDER G 36 DIM. 'X'	GIRDER G 37 DIST. FROM ℄ BRG. TO LINE	GIRDER G 37 CONSTR. ELEV.	GIRDER G 37 STEEL ELEV.	GIRDER G 37 DIM. 'X'	GIRDER G 38 DIST. FROM ℄ BRG. TO LINE	GIRDER G 38 CONSTR. ELEV.	GIRDER G 38 STEEL ELEV.	GIRDER G 38 DIM. 'X'
42-42	18+56.988	9'-2 15/16"	484.961			9'-1 7/8"	484.836			9'-0 3/4"	484.380		
43-43	18+66.894	19'-2 3/4"	484.908			19'-0 11/16"	484.783			18'-10 5/8"	484.325		
44-44	18+76.821	29'-2 9/16"	484.844			28'-11 9/16"	484.724			28'-8 9/16"	484.267		
45-45	18+86.747					38'-10 7/16	484.660			38'-6 1/16"	484.206		
46-46	18+95.797												
47-47	19+04.847												
48-48	19+13.898												

LINE	STATION ON N.B.PG.L.	GIRDER G 39 DIST. FROM ℄ BRG. TO LINE	GIRDER G 39 CONSTR. ELEV.	GIRDER G 39 STEEL ELEV.	GIRDER G 39 DIM. 'X'	GIRDER G 40 DIST. FROM ℄ BRG. TO LINE	GIRDER G 40 CONSTR. ELEV.	GIRDER G 40 STEEL ELEV.	GIRDER G 40 DIM. 'X'	GIRDER G 41 DIST. FROM ℄ BRG. TO LINE	GIRDER G 41 CONSTR. ELEV.	GIRDER G 41 STEEL ELEV.	GIRDER G 41 DIM. 'X'	GIRDER G 42 DIST. FROM ℄ BRG. TO LINE	GIRDER G 42 CONSTR. ELEV.	GIRDER G 42 STEEL ELEV.	GIRDER G 42 DIM. 'X'
42-42	18+56.988	8'-11 11/16"	483.928			8'-10 9/16	483.468			8'-9 1/2"	483.014			8'-8 3/8"	482.455		
43-43	18+66.894	18'-8 5/8"	483.876			18'-6 9/16"	483.414			18'-4 9/16"	482.960			18'-2 1/2"	482.421		
44-44	18+76.821	28'-5 9/16"	483.819			28'-2 9/16	483.357			27'-11 9/16	482.905			27'-8 5/8"	482.376		
45-45	18+86.747	38'-2 1/2"	483.758			37'-10 9/16	483.299			37'-6 5/8"	482.847			37'-2 11/16	482.321		
46-46	18+95.797	47'-1 1/8"	483.697			46'-8 5/16"	483.244			46'-3 1/2"	482.793			45'-10 11/16	482.261		
47-47	19+04.847					55'-6 1/16	483.187			55'-0 5/8"	482.738			54'-6 11/16	482.193		
48-48	19+13.898													62'-2 13/16	482.117		

LINE	STATION ON N.B.PG.L.	GIRDER G 50 DIST. FROM ℄ BRG. TO LINE	GIRDER G 50 CONSTR. ELEV.	GIRDER G 50 STEEL ELEV.	GIRDER G 50 DIM. 'X'	GIRDER G 51 DIST. FROM ℄ BRG. TO LINE	GIRDER G 51 CONSTR. ELEV.	GIRDER G 51 STEEL ELEV.	GIRDER G 51 DIM. 'X'	GIRDER G 52 DIST. FROM ℄ BRG. TO LINE	GIRDER G 52 CONSTR. ELEV.	GIRDER G 52 STEEL ELEV.	GIRDER G 52 DIM. 'X'
45-45	18+86.747	3'-6 1/2"	484.797										
46-46	18+95.797	12'-7 13/16"	484.784			6'-11 1/4"	484.623			1'-2 5/8"	484.151		
47-47	19+04.847	21'-9"	484.760			15'-11 5/8"	484.508			10'-2 3/16"	484.116		
48-48	19+13.898	30'-10 3/16	484.726			24'-11 15/16"	484.548			19'-1 11/16"	484.077		
49-49	19+22.949	39'-11 7/8"	484.680			34'-0 1/4"	484.503			28'-1 1/8"	484.034		
50-50	19+31.999	49'-0 1/2"	484.624			43'-0 1/2"	484.453			37'-0 1/2"	483.986		
51-51	19+41.049	58'-1 1/16"	484.557			52'-0 13/16"	484.378			45'-11 15/16"	483.935		
52-52	19+50.100	67'-2 15/16"	484.480			61'-1 1/8"	484.339			54'-11 5/16"	483.879		
53-53	19+59.150	76'-4 3/16"	484.391			70'-1 7/16	484.274			63'-10 13/16"	483.819		
54-54	19+68.200					79'-1 7/8"	484.205			72'-10 5/16	483.756		
55-55	19+77.251												
56-56	19+86.301												
57-57	19+95.351												
58-58	20+04.402												

LINE	STATION ON N.B.PG.L.	GIRDER G 53 DIST. FROM ℄ BRG. TO LINE	GIRDER G 53 CONSTR. ELEV.	GIRDER G 53 STEEL ELEV.	GIRDER G 53 DIM. 'X'	GIRDER G 54 DIST. FROM ℄ BRG. TO LINE	GIRDER G 54 CONSTR. ELEV.	GIRDER G 54 STEEL ELEV.	GIRDER G 54 DIM. 'X'	GIRDER G 55 DIST. FROM ℄ BRG. TO LINE	GIRDER G 55 CONSTR. ELEV.	GIRDER G 55 STEEL ELEV.	GIRDER G 55 DIM. 'X'	GIRDER G 56 DIST. FROM ℄ BRG. TO LINE	GIRDER G 56 CONSTR. ELEV.	GIRDER G 56 STEEL ELEV.	GIRDER G 56 DIM. 'X'
45-45	18+86.747																
46-46	18+95.797																
47-47	19+04.847	4'-4 3/4"	483.650														
48-48	19+13.898	13'-3 3/8"	483.615			7'-5 1/16"	483.150			1'-6 3/4"	482.686						
49-49	19+22.949	22'-2"	483.575			16'-2 7/8"	483.113			10'-3 3/4"	482.651			4'-4 9/16"	482.077		
50-50	19+31.999	31'-0 9/16"	483.531			25'-0 9/16"	483.071			19'-0 5/8"	482.612			13'-0 5/8"	482.061		
51-51	19+41.049	39'-11 1/8"	483.483			33'-10 5/16"	483.026			27'-9 1/2"	482.569			21'-8 11/16"	482.036		
52-52	19+50.100	48'-9 5/8"	483.430			42'-7 15/16"	482.976			36'-6 5/16"	482.522			30'-4 11/16"	482.002		
53-53	19+59.150	57'-8 3/16"	483.373			51'-5 5/8"	482.922			45'-3 1/8"	482.471			39'-0 11/16"	481.958		
54-54	19+68.200	66'-6 13/16"	483.311			60'-3 5/8"	482.864			53'-11 15/16"	482.417			47'-8 5/8"	481.905		
55-55	19+77.251	75'-5 7/16"	483.248			69'-1 1/16"	482.802			62'-8 3/16"	482.358			56'-4 5/8"	481.843		
56-56	19+86.301					77'-10 7/8"	482.735			71'-5 11/16"	492.295			65'-0 5/8"	481.771		
57-57	19+95.351									80'-2 11/16"	482.229			73'-8 11/16"	481.690		
58-58	20+04.402													82'-4 13/16"	481.600		

DATE ____ REVISED ____
DATE ____ REVISED ____
DATE ____ REVISED ____

DESIGNED BY J.M. CHECKED BY H.A.A. DATE ____
DETAILED BY N.P. CHECKED BY J.M. DATE ____
TRACED BY N.P. CHECKED BY J.M. DATE ____

Work this sheet with Sheet No. 80

SHEET 83 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
CONSTRUCTION ELEVATIONS

STATION 17+00.85 — PROJECT NO. I65-6(9) 134

BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

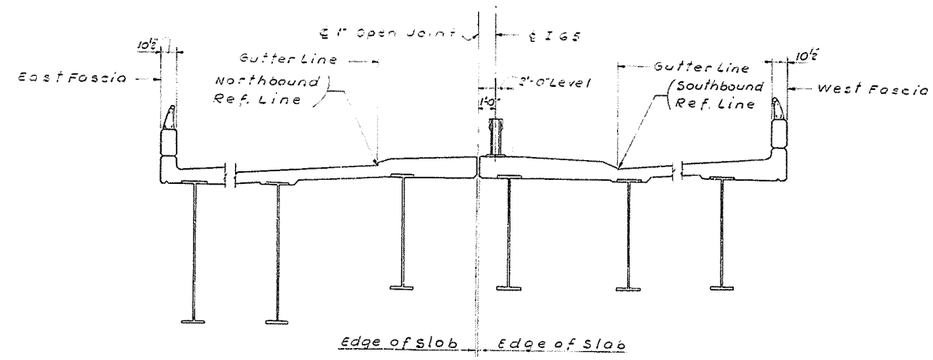
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

TABLE OF OFFSETS FOR SETTING CONCRETE FORMS

LINE *	RADIAL DIST. BETW. GIRDER & WEST FASCIA	GIRDER NO	RADIAL DIST. BETW. GIRDER & GUTTER LINE	GIRDER NO.	RADIAL DIST. BETW. GIRDER & EDGE SLAB	LINE **	RADIAL DIST. BETW. GIRDER & EAST FASCIA	GIRDER NO.	RADIAL DIST. BETW. GIRDER & GUTTER LINE	GIRDER NO.	RADIAL DIST. BETW. GIRDER & EDGE SLAB
1-1			5'-2"	G7	3'-4 1/16"	1-1	2'-5"	G15			
2-2			5'-8 3/4"		2'-9 3/4"	2-2	1'-10 13/16"				
3-3			6'-2 3/8"		2'-4 1/2"	3-3	1'-6 1/16"				
4-4			6'-6 3/8"		2'-0 5/16"	4-4	1'-2 7/16"				
5-5			6'-10 5/16"		1'-9 3/16"	5-5	0'-11 15/16"				
6-6			7'-0 11/16"		1'-7 3/16"	6-6	0'-10 11/16"				
7-7			7'-1 15/16"		1'-6 1/4"	7-7	0'-10 1/2"				
8-8			7'-2 1/8"		1'-6 3/8"	8-8	0'-10 1/2"				
9-9			7'-1 1/4"		1'-7 3/8"	9-9	0'-10 1/2"				
10-10			6'-11 1/2"		1'-9 7/8"	10-10	0'-10 1/2"				
11-11	1'-7 3/8"	G1	6'-8 3/16"		2'-1 1/4"	11-11	0'-10 1/2"				
12-12	2'-1 9/16"		6'-4 1/16"		2'-5 11/16"	12-12	0'-10 1/2"				
13-13	2'-6 9/16"		5'-10 13/16"		2'-11 3/16"	13-13	0'-10 1/2"				
14-14	2'-10 7/16"		5'-4 7/16"		3'-5 13/16"	14-14	0'-10 1/2"				
15-15	3'-1 3/16"		4'-9 1/16"	G7	4'-1 1/2"	15-15	0'-10 1/2"				
16-16	3'-2 13/16"		5'-1 1/2"	G21	3'-9 5/16"	16-16	0'-10 1/2"		2'-9 3/8"	G9	
17-17	3'-3 1/4"		5'-6 1/2"		3'-4 9/16"	17-17	0'-10 11/16"		3'-5 9/16"	G9	
18-18	3'-2 9/16"		5'-10 3/8"		3'-0 7/8"	18-18	1'-0"		4'-7 11/16"	G8	1'-9 5/8"
19-19	3'-0 5/8"		6'-1 1/8"		2'-10 3/8"	19-19	1'-2 7/16"		4'-0 5/16"		2'-5 1/2"
20-20	2'-9 9/16"		6'-2 3/4"		2'-9"	20-20	1'-6 1/16"		3'-6 1/8"		3'-0 1/16"
21-21	2'-5 5/16"		6'-3 1/4"		2'-8 3/4"	21-21	1'-10 15/16"		3'-1 1/4"		3'-5 3/8"
22-22	1'-11 13/16"	G1	6'-2 9/16"		2'-9 9/16"	22-22	2'-5"	G15	2'-9 9/16"		3'-9 3/8"
23-23	1'-5 13/16"	G43	6'-0 13/16"		2'-11 9/16"	23-23	2'-4"	G28	2'-7 3/16"		4'-0 3/16"
24-24	1'-9 15/16"		5'-9 7/8"		3'-2 5/8"	24-24	1'-10 11/16"		2'-6 1/16"		4'-1 11/16"
25-25	2'-0 1/8"		5'-5 7/8"		3'-6 7/8"	25-25	1'-6 5/8"		2'-6 3/16"		4'-1 13/16"
26-26	2'-2 11/16"		5'-0 11/16"	G21	4'-0 3/16"	26-26	1'-3 3/4"		2'-7 9/16"		4'-0 15/16"
27-27	2'-3 1/4"		5'-1 3/16"	G49	3'-11 7/8"	27-27	1'-2 1/8"		2'-10 1/8"		3'-10 5/8"
28-28	2'-2 13/16"		5'-4 3/4"		3'-8 7/16"	28-28	1'-1 5/8"		3'-2"		3'-7 1/8"
29-29	2'-1 1/4"		5'-7 5/16"		3'-6"	29-29	1'-2 5/16"	G28	3'-7 1/8"	G8	3'-2 5/16"
30-30	1'-10 11/16"		5'-8 1/8"		3'-4 9/16"						
31-31	1'-7 1/8"	G43	5'-9 7/16"		3'-4 1/8"						
32-32			5'-9"		3'-4 5/8"						
33-33			5'-7 9/16"		3'-6 1/8"						
34-34			5'-5 1/8"		3'-8 11/16"						
35-35			5'-1 11/16"	G49	4'-0 3/16"						

LINE **	RADIAL DIST. BETW. GIRDER & EAST FASCIA	GIRDER NO.	RADIAL DIST. BETW. GIRDER & GUTTER LINE	GIRDER NO.	RADIAL DIST. BETW. GIRDER & EDGE SLAB
30-30	1'-4 1/4"	G28	4'-1 1/2"	G8	2'-8 1/4"
31-31	1'-7 3/8"		4'-9 3/16"	G8	2'-0 1/8"
32-32	1'-11 7/16"		5'-5 1/8"	G8	1'-4 11/16"
33-33	2'-4 9/16"		5'-5 3/4"	G22	1'-4 13/16"
34-34	2'-10 13/16"	G28	5'-6 3/8"	G22	1'-4 1/2"
35-35	2'-7 13/16"	G35	5'-3 1/4"	G29	1'-7 3/8"
36-36	2'-6 1/16"		5'-1 1/4"		1'-10 1/16"
37-37	2'-5 3/16"		5'-0 3/8"		1'-11 3/16"
38-38	2'-5 1/16"		5'-0 5/8"		1'-11 3/16"
39-39	2'-6 11/16"		5'-1 13/16"		1'-10 1/16"
40-40	2'-9"		5'-4 3/8"		1'-7 13/16"
41-41	3'-0 3/8"	G35	5'-7 1/8"	G29	1'-4 1/2"
42-42	2'-8 3/4"	G42	5'-6 3/8"	G36	1'-6 3/16"
43-43	2'-6 1/4"		5'-6 3/16"	G36	1'-6 9/16"
44-44	2'-4 15/16"		5'-7 3/16"	G36	1'-5 3/4"
45-45	2'-4 7/8"		5'-6 3/8"	G50	1'-6 11/16"
46-46	2'-5 15/16"		5'-2 13/16"		1'-10 3/8"
47-47	2'-7 11/16"		5'-0 5/16"		2'-1 1/16"
48-48	2'-10 5/8"	G42	4'-10 13/16"		2'-2 5/8"
49-49	2'-9 9/16"	G56	4'-10 3/8"		2'-3 1/16"
50-50	2'-5 15/16"		4'-10 15/16"		2'-2 11/16"
51-51	2'-3 3/8"		5'-0 9/16"		2'-1 3/16"
52-52	2'-1 7/16"		5'-3 1/4"		1'-10 5/8"
53-53	2'-0 9/16"		2'-6 15/16"	G50	1'-7"
54-54	2'-0 15/16"		2'-0 5/8"	G51	
55-55	2'-2 3/16"				
56-56	2'-4 3/8"				
57-57	2'-7 9/16"				
58-58	2'-11 13/16"	G56			

* Line Radial to S.B. Ref. Line ** Line Radial to N.B. Ref. Line



TYPICAL SECTION

TABLE OF ELEVATIONS FOR SETTING FORMS AT ENDS OF SLABS

GIRDER NO.	SOUTH ABUTMENT CONSTR. ELEV.	SOUTH ABUTMENT STEEL ELEV.	SOUTH ABUTMENT DIM. 'X'	PIER 1 CONSTR. ELEV.	PIER 1 STEEL ELEV	PIER 1 DIM. 'X'
G1	*			*		
G2	487.740			486.908		
G3	487.348			486.499		
G4	486.976			486.101		
G5	486.624			485.714		
G6	486.293			485.338		
G7	*			*		
G8	*			*		
G9	486.222			485.244		
G10	485.845			484.864		
G11	485.467			484.496		
G12	485.087			484.147		
G13	484.706			483.813		
G14	484.295			483.576		
G15	*			*		

GIRDER NO.	PIER 1 CONSTR. ELEV.	PIER 1 STEEL ELEV.	PIER 1 DIM. 'X'	PIER 4 CONSTR. ELEV.	PIER 4 STEEL ELEV.	PIER 4 DIM. 'X'
G16	487.074			486.985		
G17	486.666			486.491		
G18	486.267			485.999		
G19	485.881			485.508		
G20	485.505			485.019		
G21	*			*		
	PIER 1			PIER 2		
G22	*			*		
G23	485.411			485.083		
G24	485.030			484.628		
G25	484.663			484.173		
G26	484.313			483.718		
G27	483.980			483.262		
G28	*			*		

GIRDER NO.	PIER 2 CONSTR. ELEV.	PIER 2 STEEL ELEV.	PIER 2 DIM. 'X'	PIER 3 CONSTR. ELEV.	PIER 3 STEEL ELEV.	PIER 3 DIM. 'X'
G29	*			*		
G30	485.248			484.721		
G31	484.793			484.266		
G32	484.337			483.811		
G33	483.882			483.356		
G34	483.427			482.901		
G35	*			*		
	PIER 3			PIER 4		
G36	*			*		
G37	484.816			484.649		
G38	484.431			484.158		
G39	483.976			483.669		
G40	483.521			483.181		
G41	483.066			482.694		
G42	*			*		

GIRDER NO	PIER 4 CONSTR. ELEV.	PIER 4 STEEL ELEV	PIER 4 DIM. 'X'	NORTH ABUTMENT CONSTR. ELEV.	NORTH ABUTMENT STEEL ELEV.	NORTH ABUTMENT DIM. 'X'
G43	*			*		
G44	486.818			486.558		
G45	486.325			486.057		
G46	485.833			485.558		
G47	485.342			485.061		
G48	484.852			484.565		
G49	*			*		
G50	*			*		
G51	484.482			484.187		
G52	483.991			483.687		
G53	483.502			483.191		
G54	483.014			482.696		
G55	482.528			482.204		
G56	*			*		

* For location and elevation See Steel Expansion Dam Sheets 71 to 77

work this sheet with Sheet No. 80

SHEET 84 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY

EXPWAY. OVER BROOK ST. & WALNUT ST.

CONSTRUCTION ELEVATIONS

STATION 17+00.85 — PROJECT NO. I 65 (9) 134

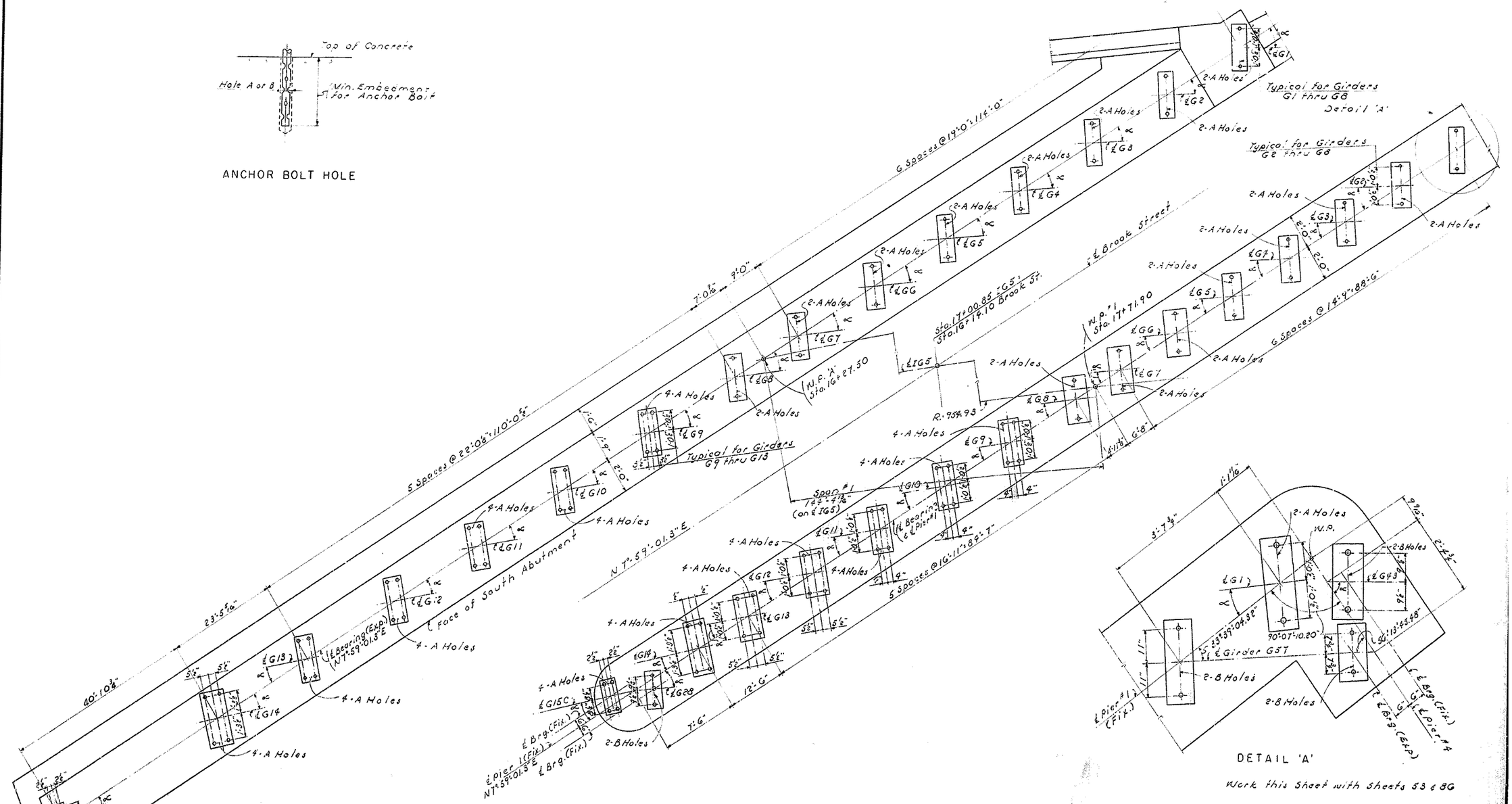
BRIDGE NUMBER — DRAWING NO. 14843 — INDEX

DESIGNED BY H.A.D. DATE 5/1/62
CHECKED BY J.M. DATE
DETAILED BY N.D. CHECKED BY J.M. DATE
TRACED BY N.D. CHECKED BY J.M. DATE

REVISED Cont. Elev. for Gir. Hel. Gal. at Pier 4. DATE 5/9/62
REVISED Cont. Elev. for Gal. Hel. Gir. at Pier 4. DATE
REVISED DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

ANCHOR BOLT HOLE



DETAIL 'A'

Work this Sheet with Sheets 53 & 86

SHEET 85 OF 88

LEGEND

Angle ∝ varies see Framing Plan Sheet No. 53

A: 2" dia. drilled hole - 1'-5" min. embedment for anchor bolt

B: 1¾" dia. drilled hole - 1'-0" min. embedment for anchor bolt

DESIGNED BY E.A.	CHECKED BY P.R.	DATE	
DETAILED BY M.N.	CHECKED BY P.R.	DATE	
TRACED BY	CHECKED BY P.R.	DATE	
REVISED		DATE	
REVISED		DATE	
REVISED		DATE	

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

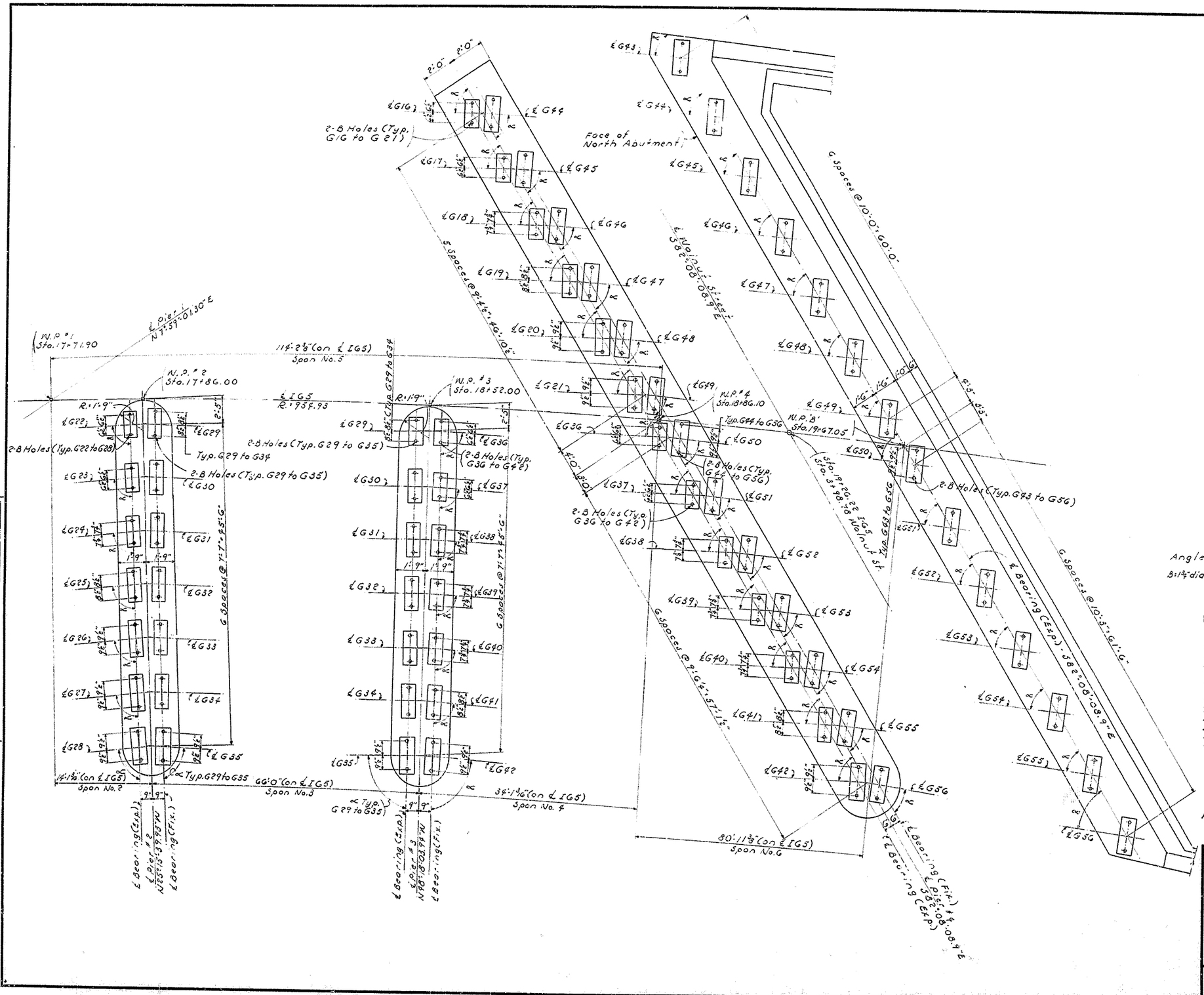
NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

ANCHOR BOLT LAYOUT

STATION 17+00.85 — PROJECT NO. I65-6(91)134

BRIDGE NUMBER	DRAWING NO. 14843	INDEX

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



LEGEND

Angle ∝ varies see Framing Plan Sheet No. 53.

3-1¾" dia. drilled hole - 12" min. embedment for anchor bolt

NOTES

Holes of depth and dimensions shown shall be drilled for Anchor Bolts by the Super-structure Contractor who shall be responsible for keeping holes dry in freezing weather. After Base Pls. are properly set and Anchor Bolts are placed in drilled holes, molten lead shall be poured in holes and packed until holes are completely filled flush to top of Base Pls. The cost of drilling Anchor Bolt holes, furnishing lead and filling holes with molten lead shall be incidental to and included in the lump sum bid for structural steel.

Work this sheet with Sheet 85

SHEET 86 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.

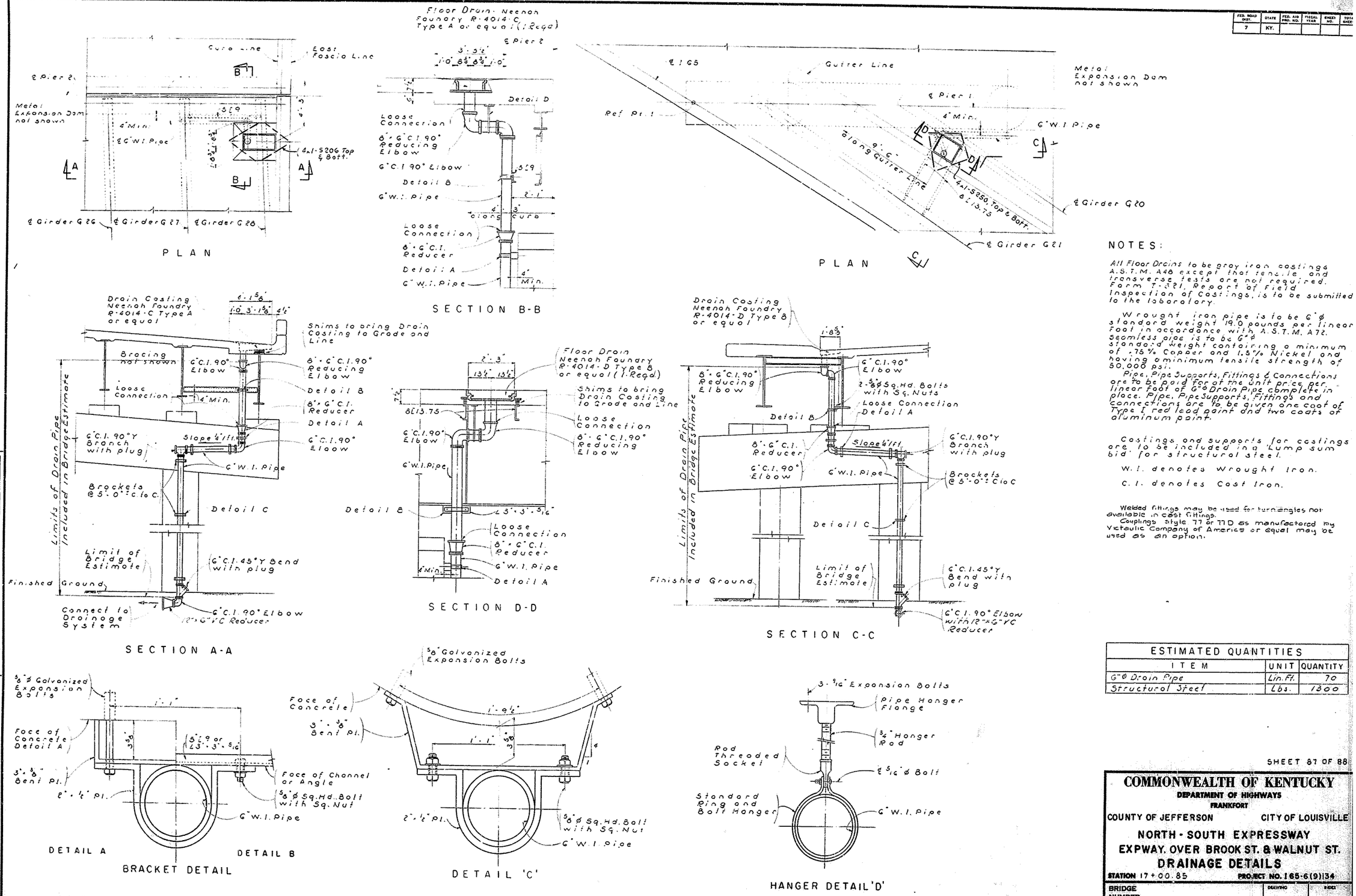
ANCHOR BOLT LAYOUT

STATION 17+00.85 — PROJECT NO. I65-6(9)134

BRIDGE NUMBER	DRAWING	INDEX
	NO. 14843	

DESIGNED BY E.A. CHECKED BY D.R. DATE
DETAILED BY M.N. CHECKED BY D.R. DATE
TRACED BY DATE
REVISED DATE
REVISED DATE
REVISED DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



NOTES:

All Floor Drains to be gray iron castings A.S.T.M. A48 except that tensile and transverse tests are not required. Form T-321, Report of Field Inspection of Castings, is to be submitted to the laboratory.

Wrought iron pipe is to be 6" ø standard weight 19.0 pounds per linear foot in accordance with A.S.T.M. A72. Seamless pipe is to be 6" ø standard weight containing a minimum of .75% Copper and 1.5% Nickel and having a minimum tensile strength of 50,000 psi.

Pipe, Pipe Supports, Fittings & Connections are to be paid for at the unit price per linear foot of 6" ø Drain Pipe complete in place. Pipe, Pipe Supports, Fittings and connections are to be given one coat of Type I red lead paint and two coats of aluminum paint.

Castings and supports for castings are to be included in a "Lump sum bid" for structural steel.

W.I. denotes Wrought Iron.

C.I. denotes Cast Iron.

Welded fittings may be used for turn angles not available in cast fittings.
Couplings style 77 or 77D as manufactured by Victaulic Company of America or equal may be used as an option.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
6" ø Drain Pipe	Lin. Ft.	70
Structural Steel	Lbs.	1300

SHEET 87 OF 88

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON — CITY OF LOUISVILLE

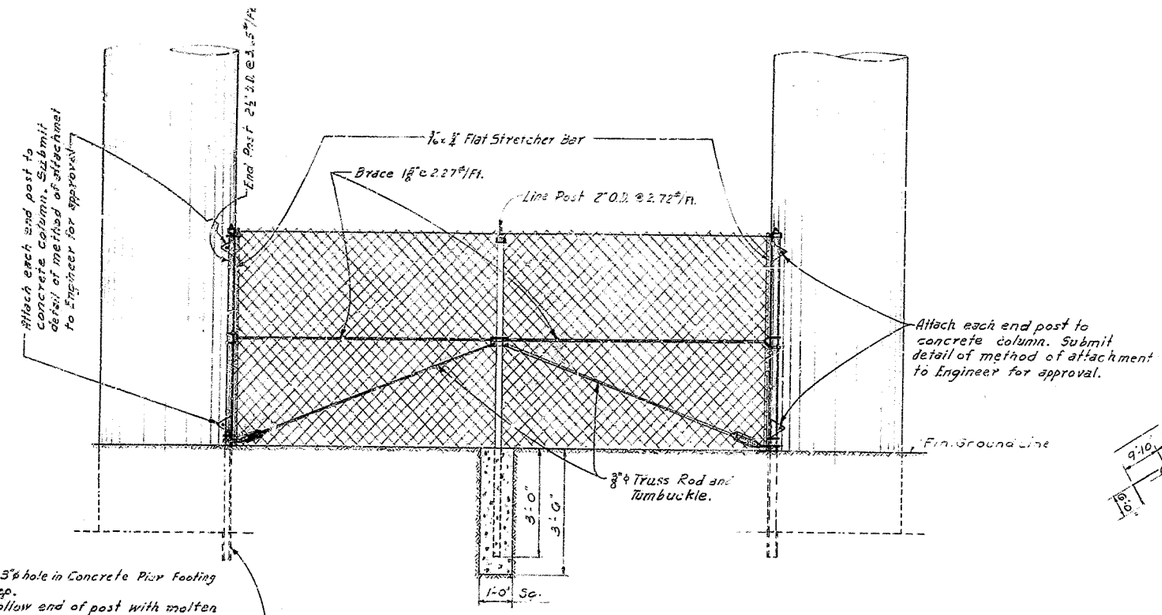
NORTH - SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
DRAINAGE DETAILS

STATION 17+00.85 — PROJECT NO. I 65-6(9)134

BRIDGE NUMBER — DRAWING NO. 14843 — SHEET

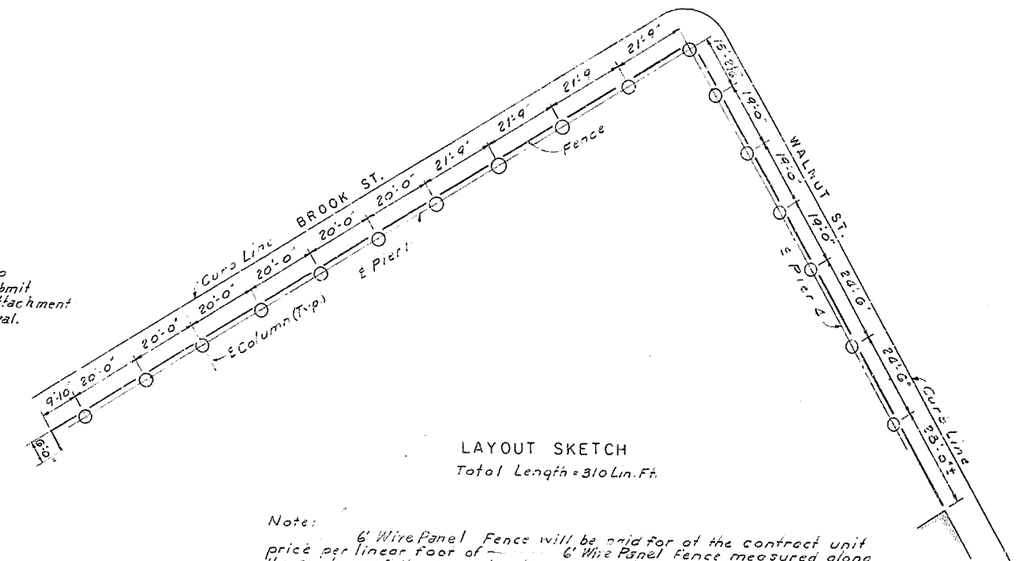
DESIGNED BY: J.M. — CHECKED BY: E.K. — DATE
DETAILED BY: W.T. — CHECKED BY: E.K. — DATE
TRACED BY: — CHECKED BY: — DATE
REVISED — DATE
REVISED — DATE
REVISED — DATE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



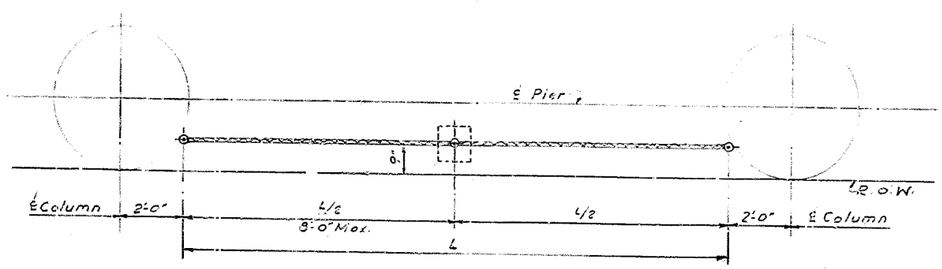
ELEVATION

Core 5" ϕ hole in Concrete Pier Footing 8" deep.
Fill hollow end of post with molten sulphur for 12" before placing in cored hole.
Fill cored hole with molten sulphur after end post is in final position.



LAYOUT SKETCH
Total Length = 310 Lin. Ft.

Note:
6' Wire Panel Fence will be paid for at the contract unit price per linear foot of — 6' Wire Panel Fence measured along the contour of the ground, which price shall constitute payment in full for furnishing all material complete in place and all labor, equipment, tools, and incidentals necessary to complete the work. For Material Specifications and notes not shown hereon See Std. Drwg. 17.08



PLAN

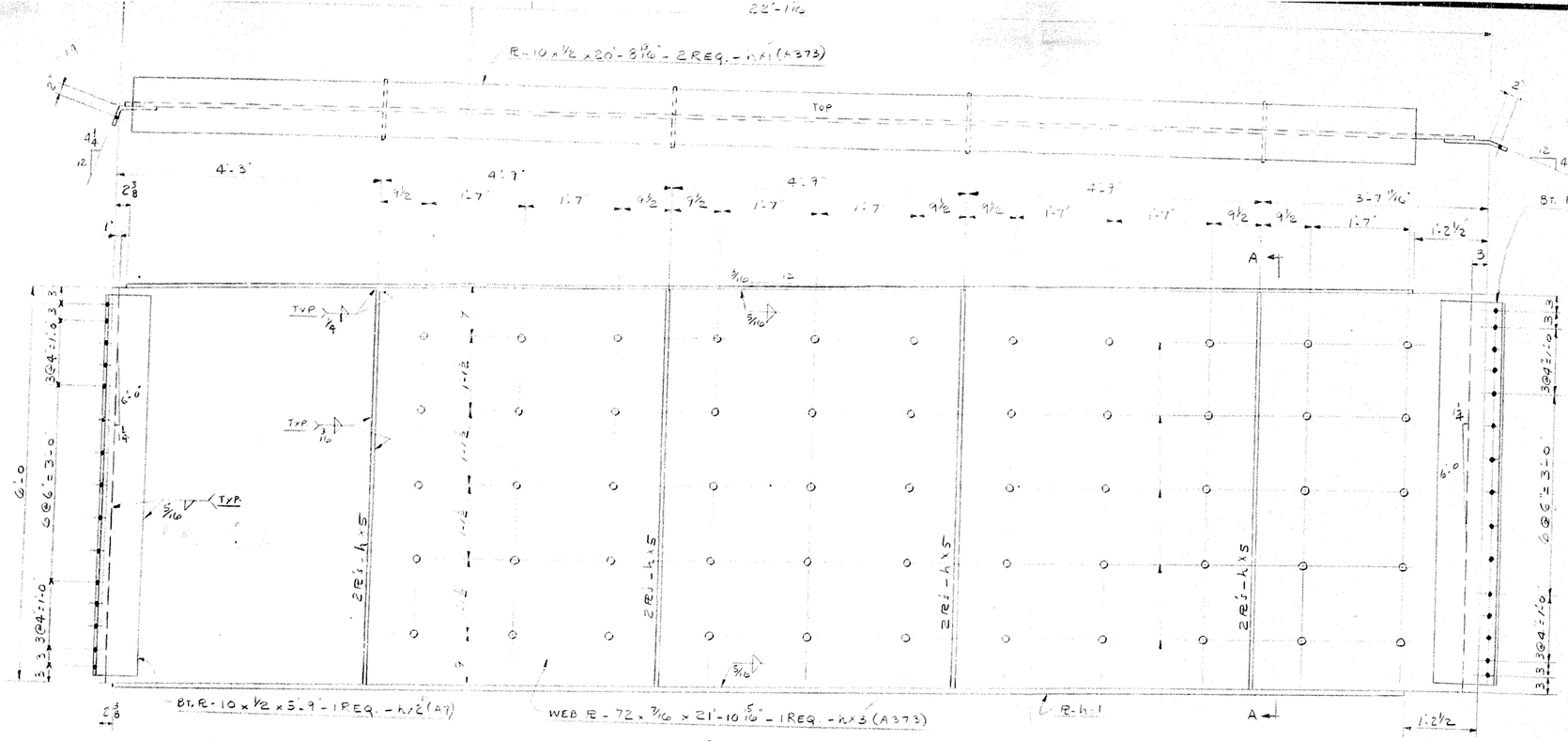
Work this Sheet with Sheets 10, 11 & 15 and Std. Drawing 17.08

SHEET 88 OF 88

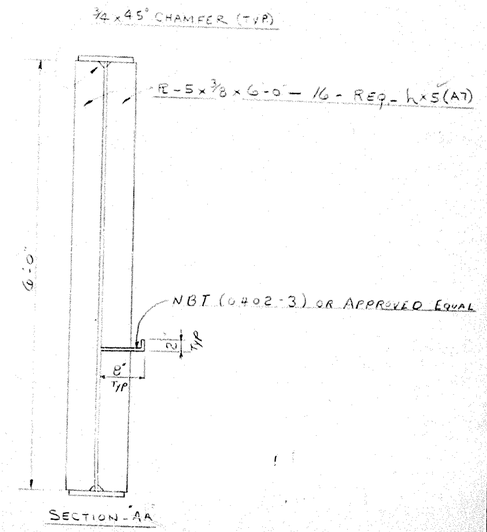
DESIGNED BY E.K. DATE
DETAILED BY M.O.D. CHECKED BY E.E.V. DATE
TRACED BY CHECKED BY E.E.V. DATE
REVISED DATE
REVISED DATE
REVISED DATE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF JEFFERSON CITY OF LOUISVILLE
NORTH-SOUTH EXPRESSWAY
EXPWAY. OVER BROOK ST. & WALNUT ST.
STEEL PICKET FENCE DETAILS

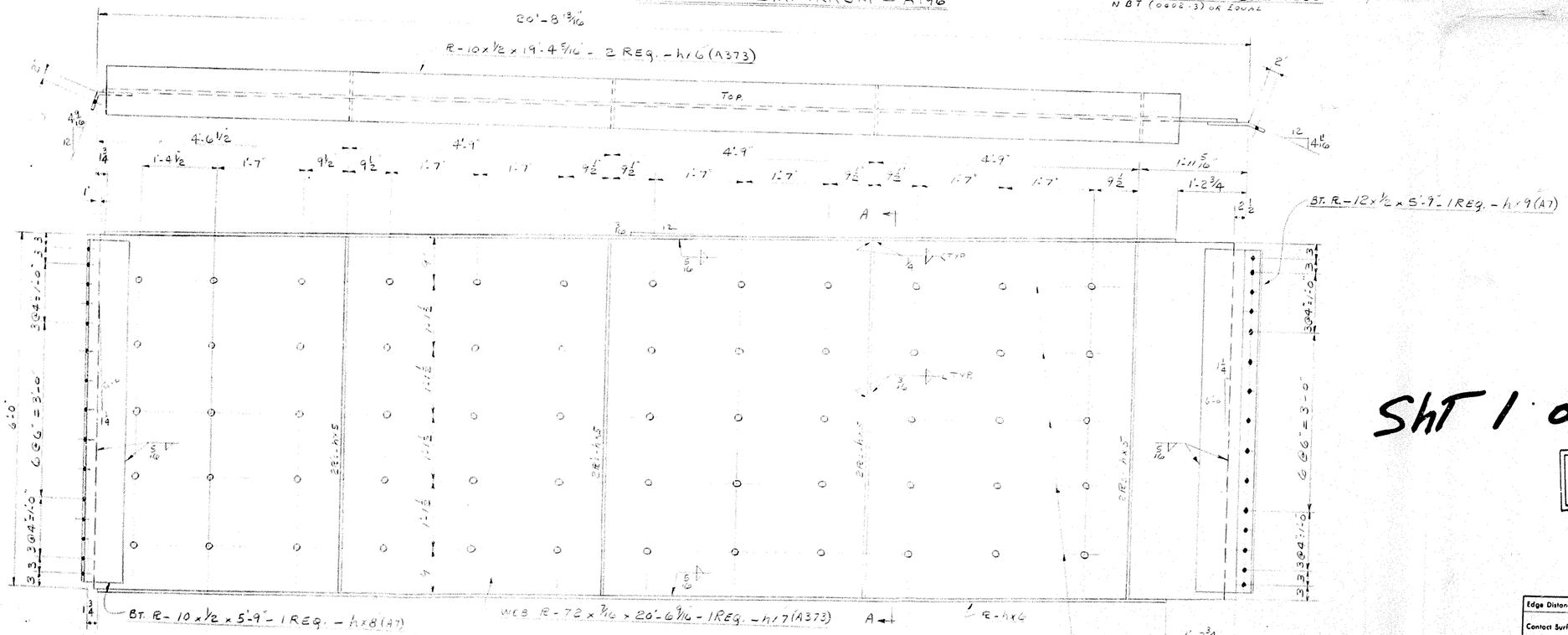
STATION 17+00.85 PROJECT NO. I 65-6(9) 134
BRIDGE NUMBER
DRAWING NO. 14843
INDEX



ONE END DIAPHRAGM – A196



SECTION - AA



ONE END DIAPHRAGM – B196

14843 Dr. # 14843

APPROVED FOR DESIGN ONLY
NOV - 7 1962
E. D. Smith
BRIDGE ENGINEER

SHT 1 of 7

OFFICE COPY

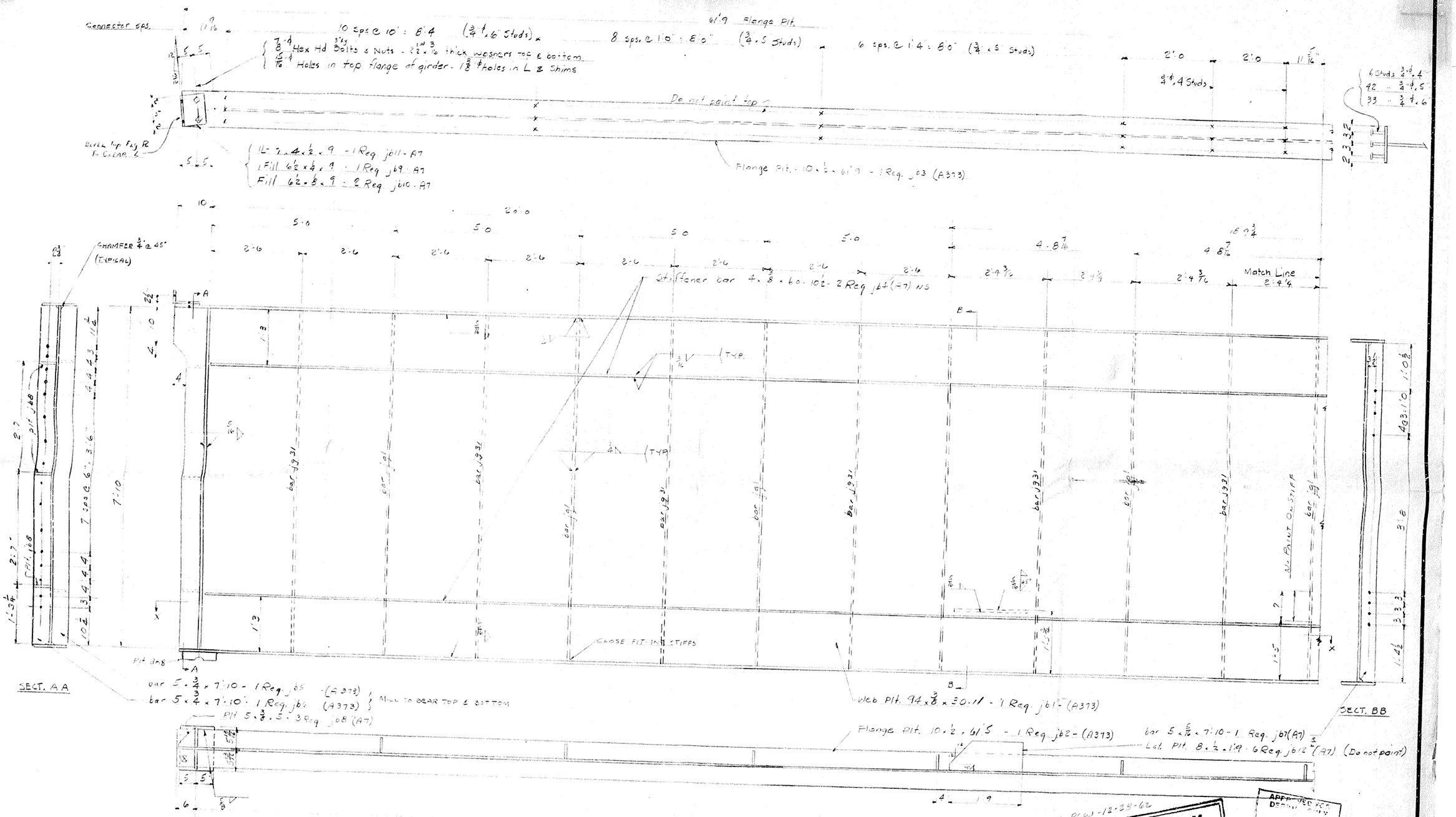
SEE SHOP NOTES ON SH. E1

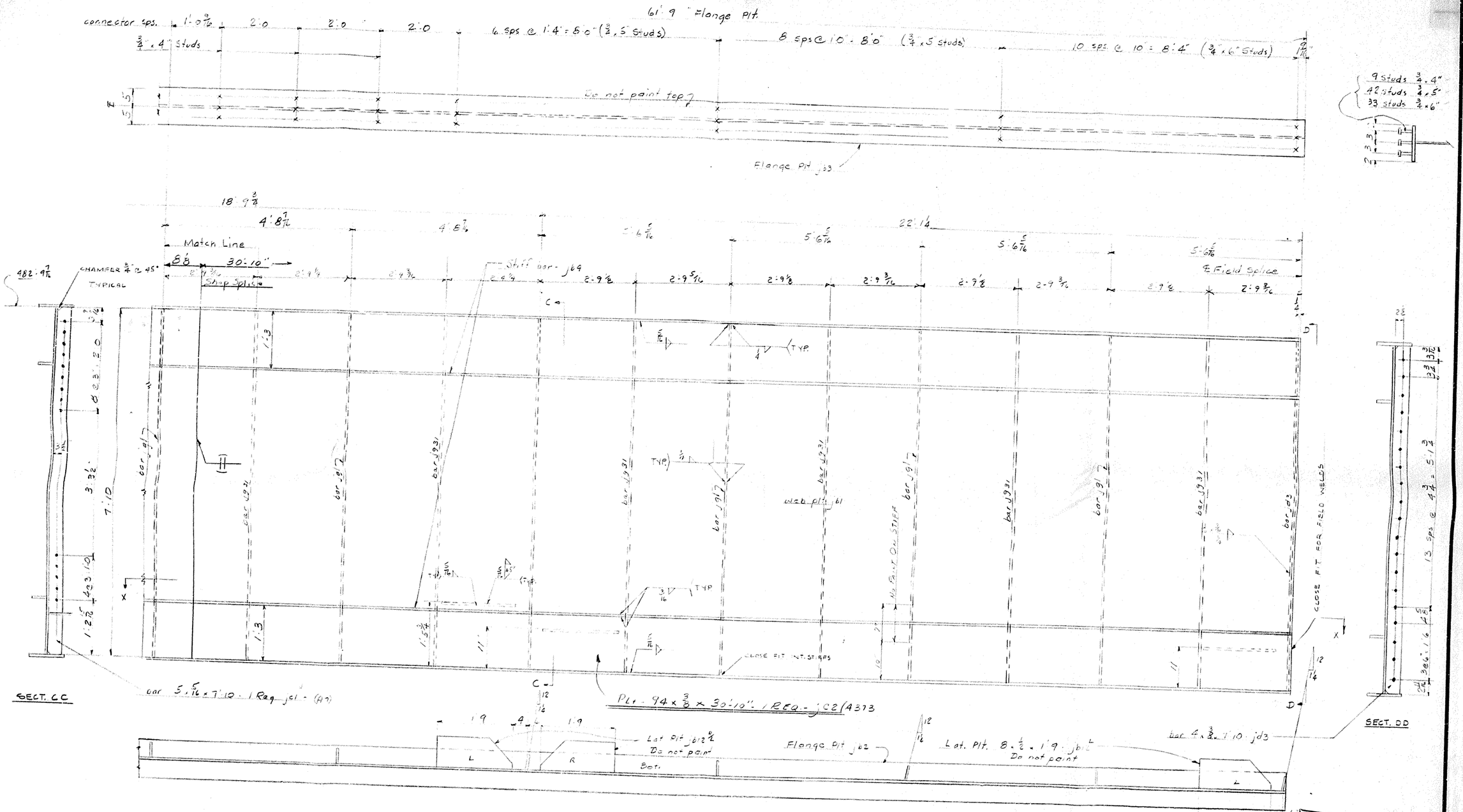
VINCENNES STEEL
Div. of NOVO Industrial Corp.
Vincennes, Ind.

COMMONWEALTH OF KENTUCKY
DEPT. OF HIGHWAYS - FRANKFORT
COUNTY OF JEFFERSON
EXPWY. OVER BROOK & WALNUT STS.
STA. 17+00.85 PROJ. 165-6(8)/34
SOLD TO: STRUCK CONSTR. CO.

Edge Distance– 1 1/2" (U.N.)			
Contact Surfaces Shop–NO PAINT Field–NO PAINT			
Paint RED LEAD (U.N.) TYPE 1			
Holes– 15/16" ø (U.N.)	Drawn T.P.	Checked CWK	Approved	Revised
Rivets–	8-1-62	9-10-62		

Contr. No. 6270 Sh. 196 of


Connector sps.
10 sps @ 10" = 8'-4 (3/4 ϕ x 6" Studs)
8 sps. @ 1'-0" = 8'-0" (3/4 x 5" Studs)
6 sps. @ 1'-4" = 8'-0" (3/4 x 5" Studs)
61'-9 Flange Plt.
7/8 ϕ Hex Hd Bolts & Nuts - 2 1/2" x 3/16" thick washers top & bottom
15/16 ϕ Holes in top flange of girder - 1 3/8 ϕ holes in L & Shims
Do not paint top
Flange Plt. - 10 x 1/2 x 61'-9 - 1 Req. j03 (A373)
6 Studs 3/4 ϕ x 4
42 " 3/4 ϕ x 5
33 " 3/4 ϕ x 6
Stiffener bar 4 x 3/8 x 60.10 1/2 - 2 Req. j64 (A7) NS
Match Line 2'-4 1/4
CHAMFER 3/4" @ 45° (TYPICAL)
Web Plt. 94 x 3/8 x 30.11 - 1 Req. j61 - (A373)
Flange Plt. 10 x 1/2 x 61'-5 - 1 Req. j62 - (A373)
bar 5 x 7/16 x 7.10 - 1 Req. j67 (A7)
Lat. Plt. 8 x 1/2 x 1'-9 - 6 Req. j612 (A7) (Do not paint)
bar 5 x 3/4 x 7.10 - 1 Req. j65 (A373)
bar 5 x 3/4 x 7.10 - 1 Req. j66 (A373)
MILL TO BEAR TOP & BOTTOM
Plt 5 x 3/8 x 5 - 3 Req. j68 (A7)
CLOSE FIT INTO STIFFS
NO PAINT ON STIFF
SECT. AA
SECT. BB
SECTION XX
See notes - sheet E1
OK PLW - 12-28-62
OFFICE COPY
Contr. Tom this goes to go with our copy - E.D.S.
ONE GIRDER - A200
work with sheet 201
VINCENNES STEEL
Div. of NOVO Industrial Corp.
Vincennes, Ind.
COMMONWEALTH OF KENTUCKY
DEPT. OF HIGHWAYS - FRANKFORT
COUNTY OF JEFFERSON
EXPWY OVER BROOK & WALNUT STS.
STA 17+00.85 PROJ NO I 65 6(18) 134
SOLD TO STRUCK CONSTR. CO.
Edge Distance - 1/2 UN
Contact Surfaces - Shop - No Paint, Field - No Paint
Paint - RED LEAD UN TYPE 1
Holes - 15/16 ϕ UN
Rivets -
Drawn JW 7-62
Checked CWK 9-10-62
Approved
Revised
Contr. No. 6270 Sh. 200 of



GIRDER A200 (G15)

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DEC 23 1962
E. J. Smith
BRIDGE ENGINEER

3

see notes Sheet E1

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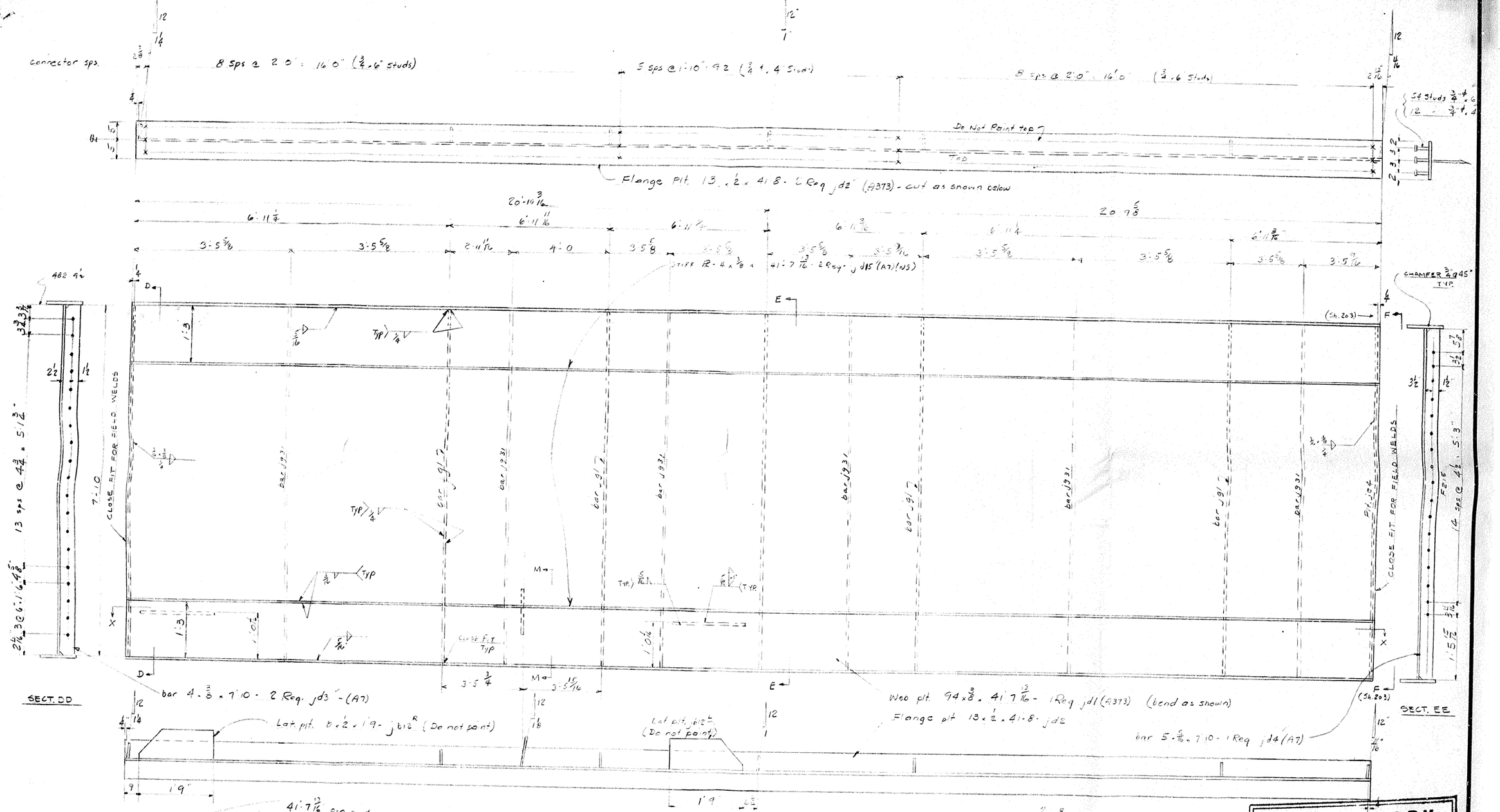
VINCENNES STEEL
Div. of NOVO Industrial Corp.
Vincennes, Ind.

COMMONWEALTH OF KENTUCKY
DEPT. OF HIGHWAYS: FRANKFORT
COUNTY OF JEFFERSON
EXPWY OVER BROOK & WALNUT STS.
STA. 17+00.85 PROJ. NO. I 65-6(10) 134
SOLD TO STROCK CONSTR. CO.

Edge Distance—	1 1/2" UN.
Contact Surfaces	Shop— No Paint Field— No Paint
Paint	RED LEAD UN. TYPE I
Holes—	15/16" UN.
Rivets—	

Drawn	Checked	Approved	Revised
J.W. 7-6-62	CWK 7-10-62		

Contr. No. 6270 Sh. 201 of



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See notes - sheet E1

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DEC 29 1962
E. J. Smith
BRIDGE ENGINEER

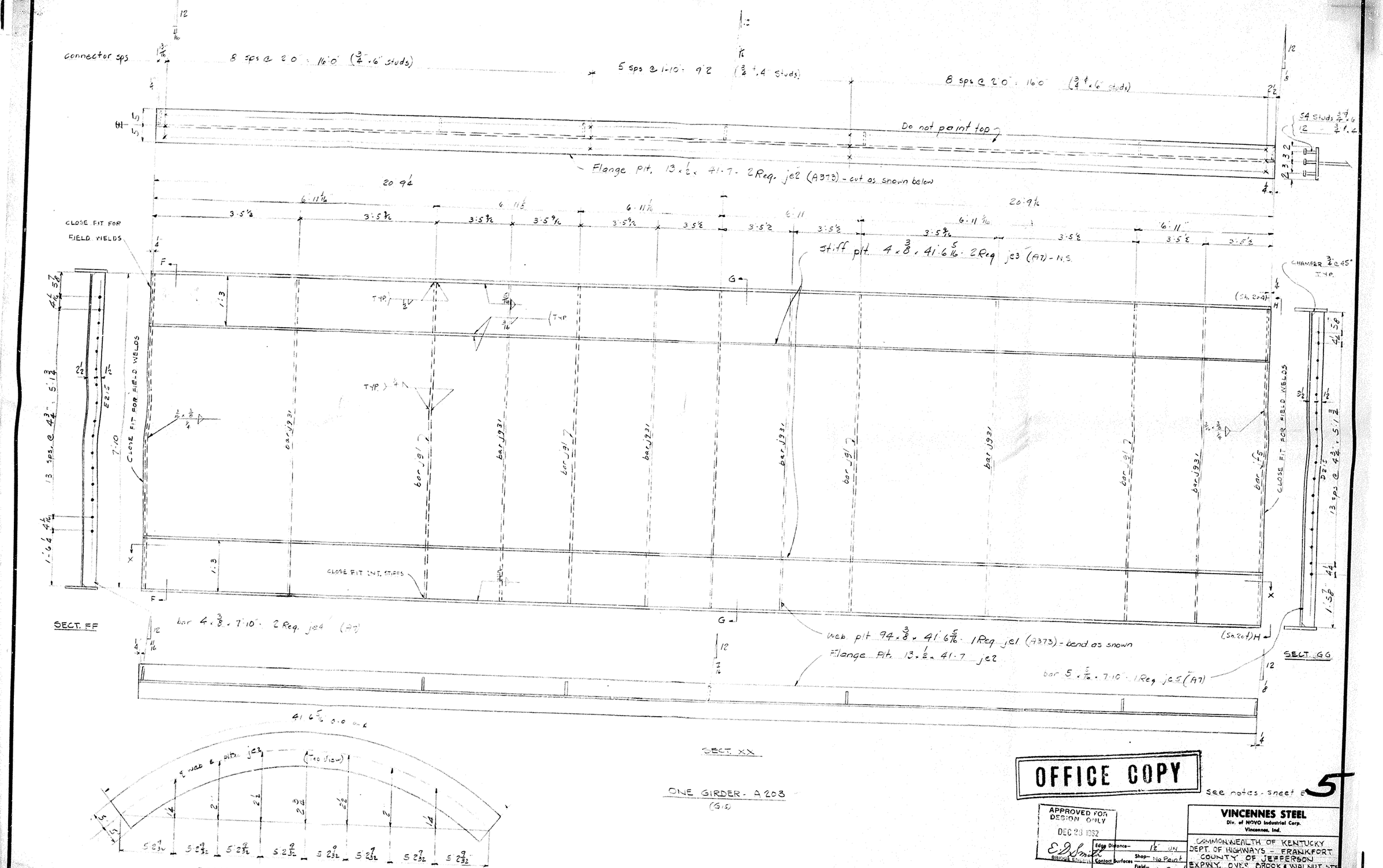
Edge Distance—	1 1/2" UN
Contact Surfaces	Shop— No Paint Field— No Paint
Paint	RED LEAD U.N. TYPE I
Holes—	13/16" UN.
Rivets—	

VINCENNES STEEL
Div. of NOVO Industrial Corp.
Vincennes, Ind.

COMMONWEALTH OF KENTUCKY
DEPT. OF HIGHWAYS - FRANKFORT
COUNTY OF JEFFERSON
EXPWY. OVER BROOK & WALNUT STS.
STA 11+00.85 PROJ NO IGS 6(101) 136
SOLD TO STRUCK CONSTR. CO.

Drawn	Checked	Approved	Revised
7-62	7-10-62		

Contr. No. 6270 Sh. 202 of



ONE GIRDER - A 203
(G15)

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See notes - sheet E 5

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DEC 23 1962
Ed Smith
BRIDGE ENGINEER

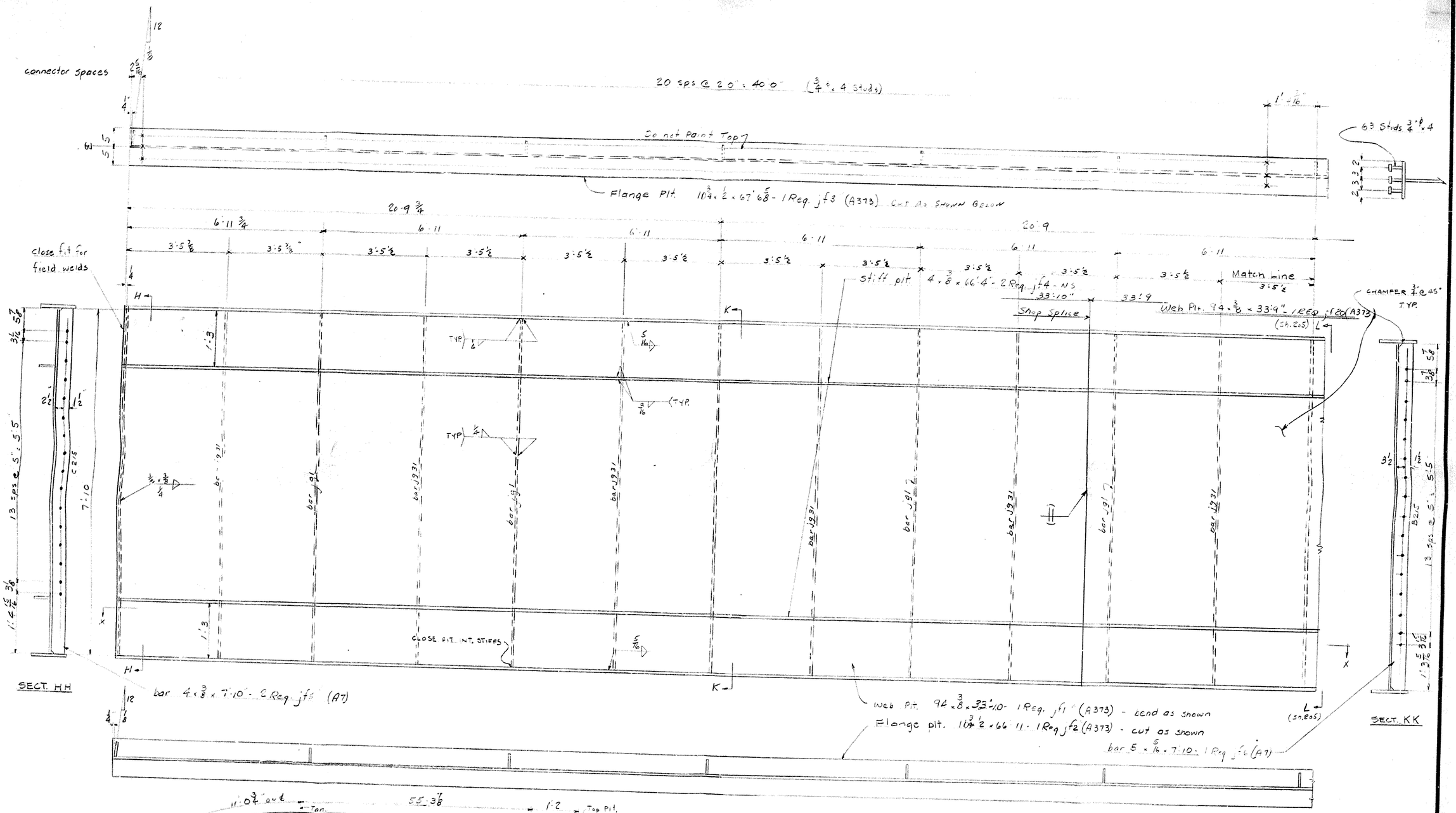
Edge Distance–	1" UN.
Contact Surfaces Shop–	No Paint
Field–	No Paint
Paint	RED LEAD UN TYPE I
Holes–	13/16" UN.
Rivets–	

VINCENNES STEEL
Div. of NOVO Industrial Corp.
Vincennes, Ind.

COMMONWEALTH OF KENTUCKY
DEPT. OF HIGHWAYS - FRANKFORT
COUNTY OF JEFFERSON
EXPWY. OVER BROOK & WALNUT STS.
STA. 17+00.85 PROJ. No. I-65 (11) 13
SOLD TO STRUCK CONSTR. CO.

Drawn	Checked	Approved	Revised
JW 7-62	CWK 9-10-62		

Contr. No. 6270 Sh. 203 of



ONE GIRDER - A204 (G.6)

work with sheet 205

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See notes. sheet E1

6

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E. D. Smith
BRIDGE ENGINEER

Edge Distance—	1 1/2" UN
Contact Surfaces Shop—	No Paint
Contact Surfaces Field—	No Paint
Paint	RED LEAD-UN TYPE I
Holes—	15/16" ϕ UN
Rivets—	

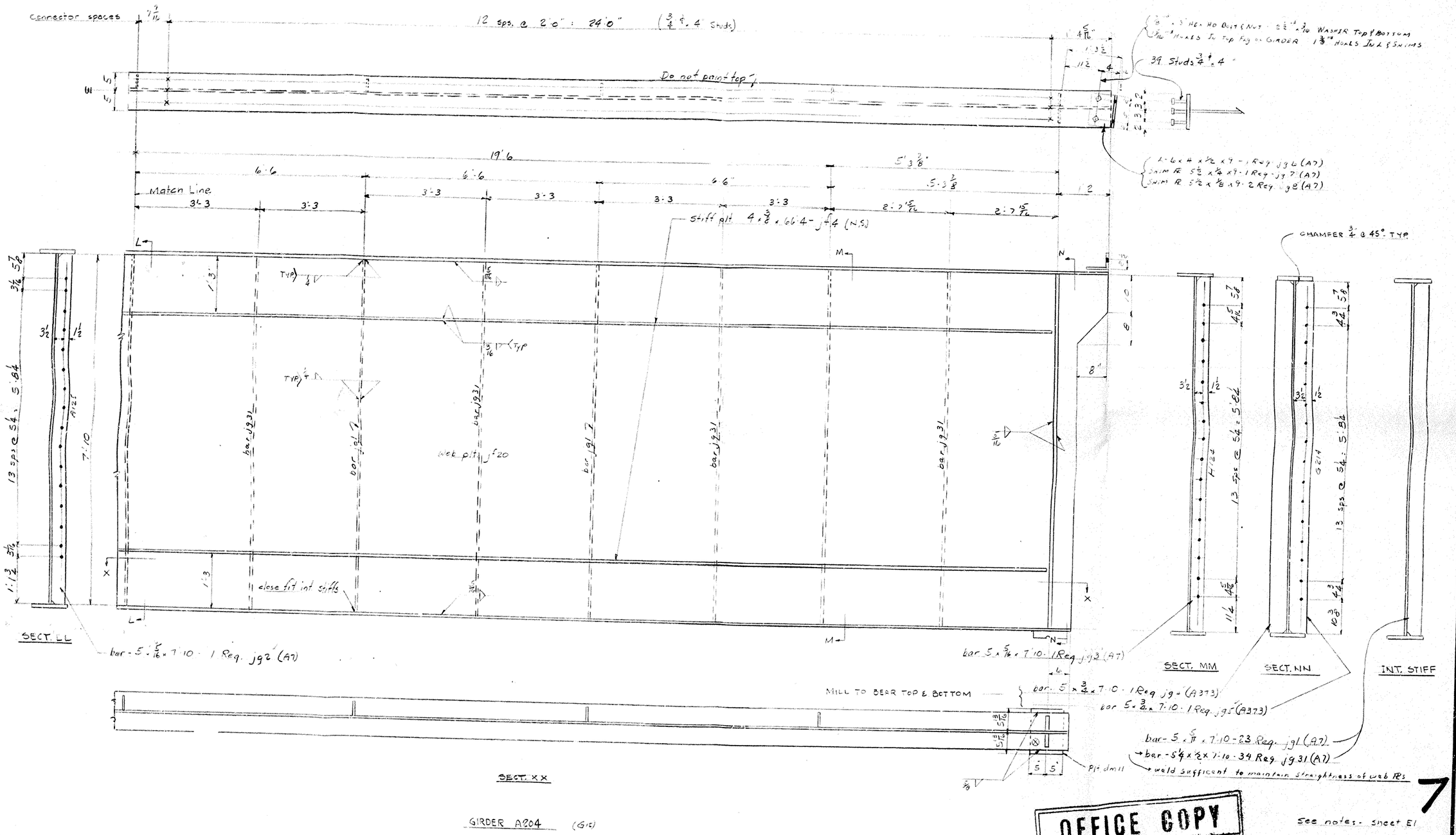
VINCENNES STEEL
Div. of NOVO Industrial Corp.
Vincennes, Ind.

COMMONWEALTH OF KENTUCKY
DEPT. OF HIGHWAYS — FRANKFORT
COUNTY OF JEFFERSON
EXPWY OVER BROOK & WALNUT STS.
STA. 17 + 00.85 PROJ. NO. I 65 (107) 104
SOLD TO STRUCK CONSTR. CO.

Drawn	Checked	Approved	Revised
JW	CWK		
7-62	9-10-62		

Contr. No. 6270 Sh. 204 of

MARTIN-LUCHT ENGINEERING SUPPLY, INC. PHOENIX



7

See notes - sheet E1

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DEC 23 1962
E. J. Smith
BRIDGE ENGINEER

Edge Distance–	1/2 UN
Contact Surfaces – Shop–	No Paint
Field–	No Paint
Paint	RED LEAD UN TYPE I
Holes–	13/16 ϕ UN
Rivets–	

VINCENNES STEEL
Div. of HOVO Industrial Corp.
Vincennes, Ind.

COMMONWEALTH OF KENTUCKY
DEPT. OF HIGHWAYS - FRANKFORT
COUNTY OF JEFFERSON
EXPWY OVER BROOK & WALNUT STS.
STA 17-00.85 PROJ NO 165 W 2134
SOLD TO STRUCK CONSTR. CO.

Drawn	Checked	Approved	Revised
7-62	7-10-62		

Contr. No. 6270 Sh. 205 of