

KENTUCKY DEPARTMENT OF HIGHWAYS
JEFFERSON COUNTY
NORTH-SOUTH EXPRESSWAY
RAMP 'D' OVER FLOYD STREET

NO.	DATE	BY	CHKD.	DATE	BY	CHKD.
7		KY.				

REFERENCE AND ESTIMATE OF QUANTITIES

REFERENCE AND ESTIMATE OF QUANTITIES																								
I T E M	SHEET NUMBER	CONCRETE CLASS A (CU.YDS.)	STEEL REINFORCEMENT (LBS.)	STRUCTURE EXCAVATION (COMMON) (CU.YDS.)			CONCRETE PILES (LIN.FT.) (See General Notes for Description)												STRUCTURAL STEEL (LUMP SUM) ①	SHEAR CONNECTORS (LUMP SUM) ②	SINGLE RAIL ALUMINUM HANDRAIL (LIN. FT.)			
							ALTERNATE A		ALTERNATE B		ALTERNATE C		ALTERNATE D		ALTERNATE E		ALTERNATE F							
							FURNISHING	DRIVING	FURNISHING	DRIVING	FURNISHING	DRIVING	FURNISHING	DRIVING	FURNISHING	DRIVING	FURNISHING	DRIVING						
TITLE SHEET	1																							
LAYOUT SHEET	2																							
EAST ABUTMENT DETAILS	3 to 6 & 11	218.8	33,880	100			1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120								
TOE WALL DETAILS	3, 5 & 9	18.0	1,400	35																				
WEST ABUTMENT DETAILS	7 to 11	198.0	29,505	95			970	970	970	970	970	970	970	970	970	970								
PILE RECORD	12																							
SUPERSTRUCTURE DETAILS	13 & 14	65.2	14,480																					
STRUCTURAL STEEL DETAILS	15																		127					
SHEAR CONNECTOR DETAILS	16																							
EXPANSION DAM DETAILS	17																							
STRUCTURAL STEEL NOTES	18																							
CONSTRUCTION ELEVATIONS	19																							
ANCHOR BOLT LAYOUT	20																							
TOTALS		500.0	79,265	230			2,090	2,090	2,090	2,090	2,090	2,090	2,090	2,090	2,090	2,090			127					
			</																					

GENERAL NOTES

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

DESIGN LOAD: Bridge designed for H20-S16-44 loading as specified in 1961 AASHTO 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 Embedment, $M = 300$ psi for Σ .
For structural steel: $f_s = 18,000$ psi for A7 and A373 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 A15-58T for billet steel or A16-58T 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, JOINT SEALER AND HOT-POURED ASPHALT-TYPE FILLER, AND ACCESS DOORS: The cost of these items is to be included in the unit price bid for Class "A" Concrete.

STRUCTURAL STEEL: Paint, Materials, Connections, Mill Test Report, Steel Finish, Dimensions, Shop Plans, Shop Assembly and Reaming. See Structural Steel Notes Sheet No.18.

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 alternate types A thru F throughout.

ALTERNATE A - 14" Precast Concrete Piles, Std. Dwg. No. P2

ALTERNATE B - 14" Precast prestressed concrete piles, Std. Dwg. No. 23

ALTERNATE C - 14" Cast-in-Place concrete or welded steel shell concrete pile, Std. Dwg. No. P20

ALTERNATE D - 14" Nominal Butt diameter Cast-in-Place steel concrete piles, Std. Dwg. No. P21

ALTERNATE E - 14" Minimum Nominal Butt diameter Cast-in-Place steel stop-tapered shell concrete pile, Std. Dwg. No. P22

ALTERNATE F - 14" Minimum Nominal Butt diameter Cast-in-Place steel stop-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" spirals Alternate "H" 3/4" x 4" studs Alternate "J" 4" Channel # 5.4

DRIVING PILES: Cored holes thru the embankment will be required for starting piles. The cost of this work is to be included in the unit price bid per linear foot for driving piles.

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.

JOINT SEALER: Joint sealer shall be furnished and applied in accordance with the special provision.

- ① Estimated weight does not include weld material, does include lead pils. = 55,000 Lbs.
- ② Alternate B = 1,205 Lbs.
Alternate H = 1,140 Lbs.
Alternate J = 1,680 Lbs.

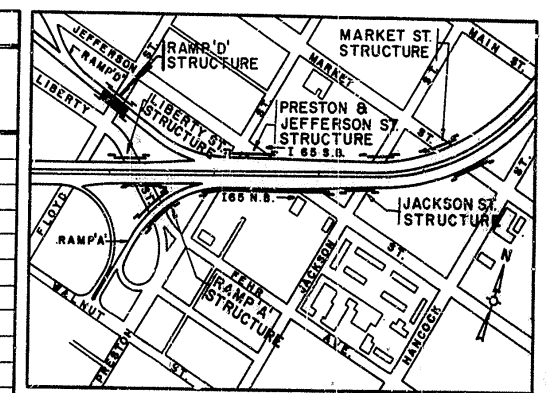
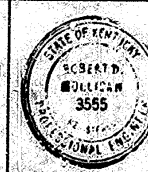
PREPARED AND SUBMITTED

BY

BARSTOW & MULLIGAN

6-15-62

DATE



SITE PLAN
SCALE IN FEET
0 100 200 300 400 500 600 700 800 900 1000

BILL OF INCIDENTAL MATERIAL

ITEM	UNIT	AMOUNT	LOCATION
1" PREMOULDED EXP. JT. MATERIAL	SQ. FT.	54	SEE SHEET 2
1/2" PREMOULDED EXP. JT. MATERIAL	SQ. FT.	15	SEE SHEET 2
24 GZ. COPPER STRIPS	L.F.	51	SEE SHEET 2
ABUTMENT SEAT DRAINS	EA.	4	SEE ABUT. DETAILS

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.

STD. DWGS.

G 351
H 12
P 2
P 20
P 21
P 22
P 23
P 24

Special Provision for Joint Sealing Compound

SHEET 1 OF 20

COMMONWEALTH OF KENTUCKY	
DEPARTMENT OF HIGHWAYS	
COUNTY OF JEFFERSON	CITY OF LOUISVILLE
NORTH-SOUTH EXPRESSWAY	
RAMP 'D' OVER FLOYD STREET	
TITLE SHEET	
SECTION 5-152.73	PROJECT NO. 1-66-6(1)13-1
BRIDGE NUMBER	NO. 5308

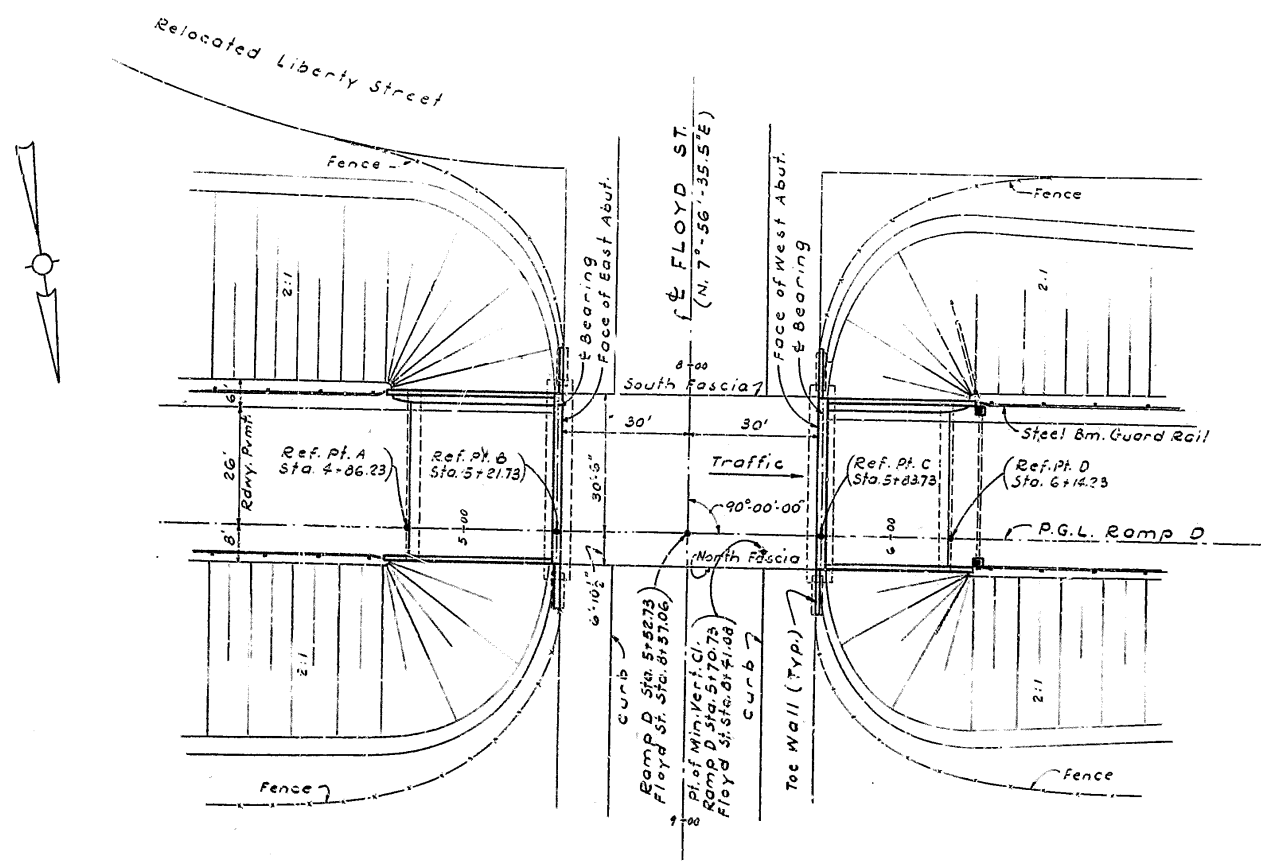
P.V. 1
Sta. 6+15
E1. 481.90
V.C. 310'

- 0.33 %

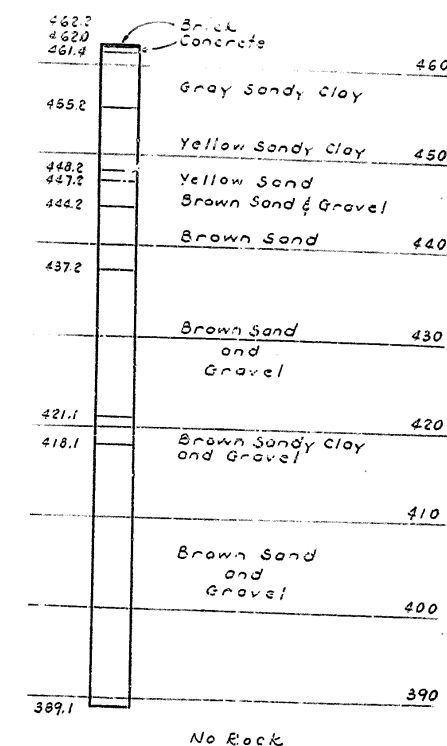
Lighting standard
see sheet 12

El. 474.00
Cut-off El. 474.50
EXP.
FIX.
Cut-off El. 472.00
El. 471.50
El. 458.000
Cut-off El. 458.50
El. 460.00
El. 460.00

Simple Span 62'-0" Composite Welded Girders
H20-316 - 44 Loading, 26 Roadway, 6' Rt. Shoulder
2' Lt. Shoulder, 1'-6" Safety, 40' Shoulder 2:1 Slope



PLAN
(Superstructure Removed)



T. H. 29

SOUNDING

LIST OF INCIDENTAL MATERIAL			
ITEM	No. of PIECES	SIZE & DESCRIPTION	LOCATION
1" Prem. Jt. Mat'l.	4	10" x 1" x 3'-0"	Abutment - Toe Wall
1" " " "	1	2'-0" x 1" x 37'-0"	Slab - Abutment
1/2" " " "	8	3" x 1/2" x 7'-6"	Abutment - Toe Wall
24 oz Copper Strip	4	2'-1/2" x 3'-9"	" "
" " " "	1	1" x 36'-0"	Slab Abutment

SHEET 2 OF 20

COMMONWEALTH OF KENTUCKY

DEPARTMENT OF HIGHWAYS

FRANKFURT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
RAMP 'D' OVER FLOYD STREET

LAYOUT SHEET

STATION 5+52.73

PROJECT NO. I 65-6(9)134

BRIDGE
NUMBER

8.15308

<u>DRAWN BY</u>	<u>E.K.</u>	<u>CHECKED BY</u>	<u>R.E.M.</u>	<u>DATE</u>	<u>REVIEWED</u>	<u>DATE</u>
<u>MAGUIB</u>	<u>N.P.</u>	<u>CHECKED BY</u>	<u>R.E.M.</u>	<u>DATE</u>	<u>SERIALIZED</u>	<u>FIVE</u>

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

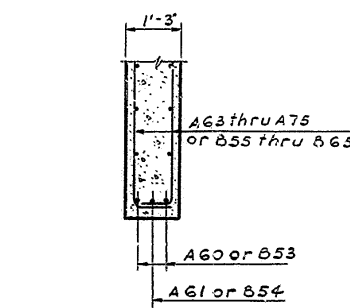
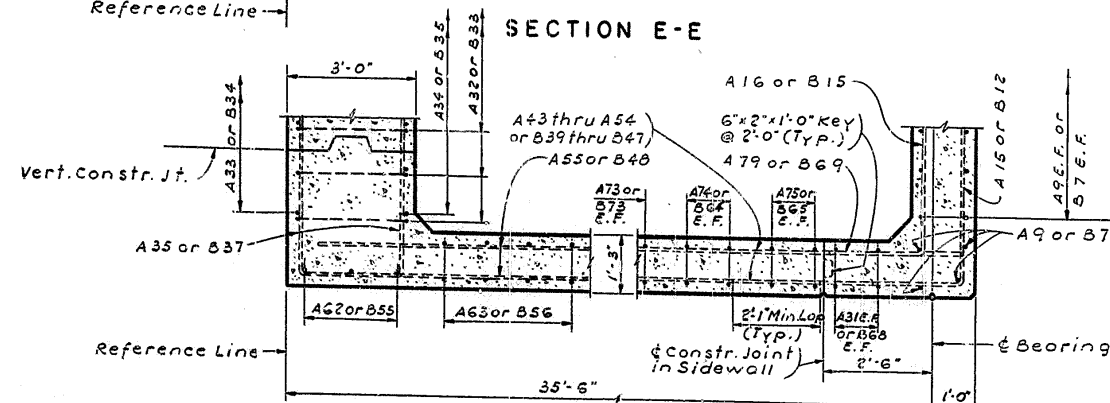
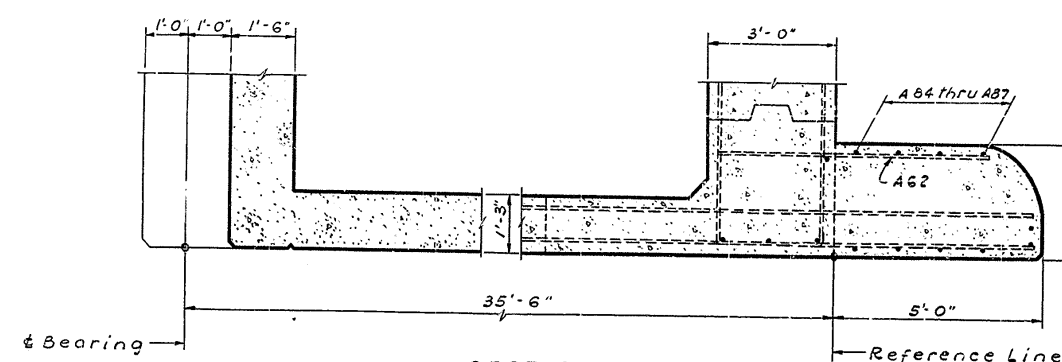
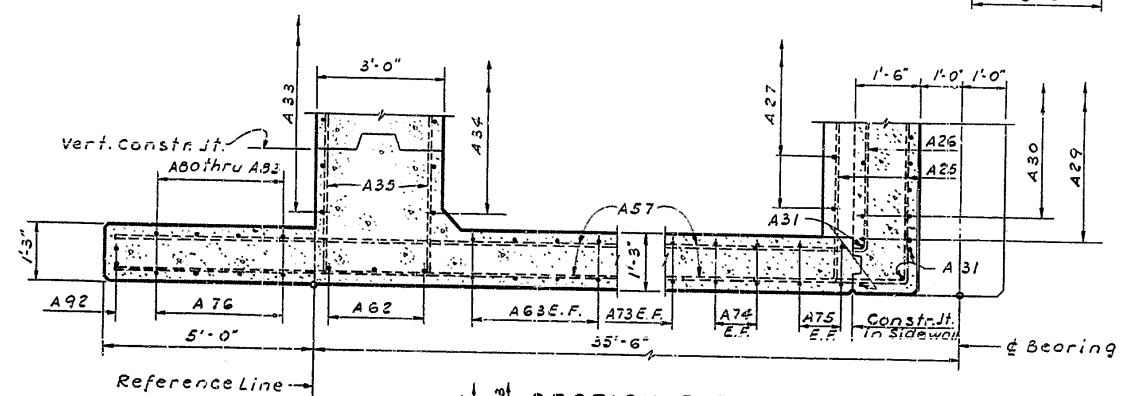
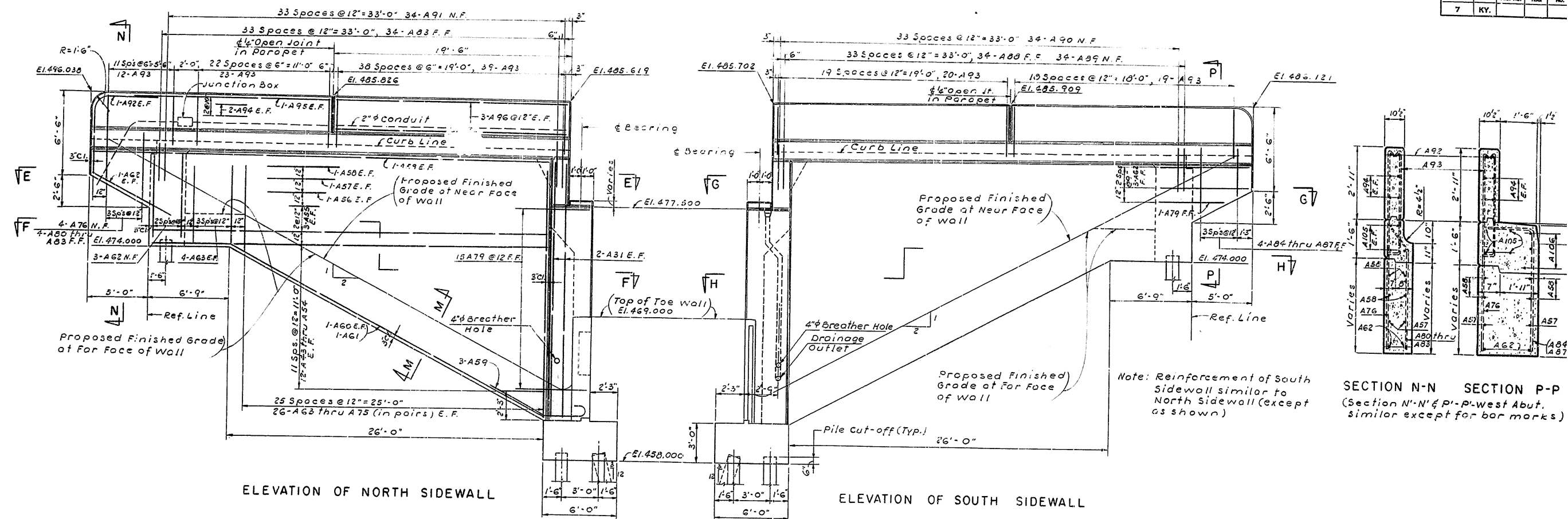
COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY
RAMP 'D' OVER FLOYD ST.
EAST ABUTMENT-PLAN AND DETAILS

STATION 5+52.73	PROJECT NO. 165-6(9) 134	
BRIDGE NUMBER	DAY/NO NO. 15308	INDEX

Technical drawing of a bridge deck cross-section. The drawing shows a long, narrow structure with various dimensions and reinforcement details. Key features include:

- Dimensions:**
 - Overall width: 37' 4 1/2"
 - Span length: 13' 0"
 - Abutment width: 2' 0"
 - Side wall width: 1' 6"
 - Deck thickness: 2' 11"
 - Reinforcement spacing: 1' 0" o.c. (Typ.)
 - Reinforcement diameter: 3/16" (Typ.)
 - Reinforcement diameter: 1/2"
 - Reinforcement diameter: 3/8"
 - Reinforcement diameter: 1/4"
 - Reinforcement diameter: 1/8"
 - Reinforcement diameter: 1/16"
 - Reinforcement diameter: 1/32"
 - Reinforcement diameter: 1/64"
 - Reinforcement diameter: 1/128"
 - Reinforcement diameter: 1/256"
 - Reinforcement diameter: 1/512"
 - Reinforcement diameter: 1/1024"
 - Reinforcement diameter: 1/2048"
 - Reinforcement diameter: 1/4096"
 - Reinforcement diameter: 1/8192"
 - Reinforcement diameter: 1/16384"
 - Reinforcement diameter: 1/32768"
 - Reinforcement diameter: 1/65536"
 - Reinforcement diameter: 1/131072"
 - Reinforcement diameter: 1/262144"
 - Reinforcement diameter: 1/524288"
 - Reinforcement diameter: 1/1048576"
 - Reinforcement diameter: 1/2097152"
 - Reinforcement diameter: 1/4194304"
 - Reinforcement diameter: 1/8388608"
 - Reinforcement diameter: 1/16777216"
 - Reinforcement diameter: 1/33554432"
 - Reinforcement diameter: 1/67108864"
 - Reinforcement diameter: 1/134217728"
 - Reinforcement diameter: 1/268435456"
 - Reinforcement diameter: 1/536870912"
 - Reinforcement diameter: 1/1073741824"
 - Reinforcement diameter: 1/2147483648"
 - Reinforcement diameter: 1/4294967296"
 - Reinforcement diameter: 1/8589934592"
 - Reinforcement diameter: 1/17179869184"
 - Reinforcement diameter: 1/34359738368"
 - Reinforcement diameter: 1/68719476736"
 - Reinforcement diameter: 1/137438953472"
 - Reinforcement diameter: 1/274877906944"
 - Reinforcement diameter: 1/549755813888"
 - Reinforcement diameter: 1/1099511627776"
 - Reinforcement diameter: 1/2199023255552"
 - Reinforcement diameter: 1/4398046511104"
 - Reinforcement diameter: 1/8796093022208"
 - Reinforcement diameter: 1/17592186044416"
 - Reinforcement diameter: 1/35184372088832"
 - Reinforcement diameter: 1/70368744177664"
 - Reinforcement diameter: 1/140737488355328"
 - Reinforcement diameter: 1/281474976710656"
 - Reinforcement diameter: 1/562949953421312"
 - Reinforcement diameter: 1/1125899906842624"
 - Reinforcement diameter: 1/2251799813685248"
 - Reinforcement diameter: 1/4503599627370496"
 - Reinforcement diameter: 1/9007199254740992"
 - Reinforcement diameter: 1/18014398509481984"
 - Reinforcement diameter: 1/36028797018963968"
 - Reinforcement diameter: 1/72057594037927936"
 - Reinforcement diameter: 1/144115188075855872"
 - Reinforcement diameter: 1/288230376151711744"
 - Reinforcement diameter: 1/576460752303423488"
 - Reinforcement diameter: 1/1152921504606846976"
 - Reinforcement diameter: 1/2305843009213693952"
 - Reinforcement diameter: 1/4611686018427387904"
 - Reinforcement diameter: 1/9223372036854775808"
 - Reinforcement diameter: 1/18446744073709551616"
 - Reinforcement diameter: 1/36893488147419103232"
 - Reinforcement diameter: 1/73786976294838206464"
 - Reinforcement diameter: 1/147573952589676412928"
 - Reinforcement diameter: 1/295147905179352825856"
 - Reinforcement diameter: 1/590295810358705651712"
 - Reinforcement diameter: 1/1180591620717411303424"
 - Reinforcement diameter: 1/2361183241434822606848"
 - Reinforcement diameter: 1/4722366482869645213696"
 - Reinforcement diameter: 1/9444732965739290427392"
 - Reinforcement diameter: 1/18889465931478580854784"
 - Reinforcement diameter: 1/37778931862957161709568"
 - Reinforcement diameter: 1/75557863725914323419136"
 - Reinforcement diameter: 1/151115727451828646838272"
 - Reinforcement diameter: 1/302231454903657293676544"
 - Reinforcement diameter: 1/604462909807314587353088"
 - Reinforcement diameter: 1/1208925819614629174706176"
 - Reinforcement diameter: 1/2417851639229258349412352"
 - Reinforcement diameter: 1/4835703278458516698824704"
 - Reinforcement diameter: 1/9671406556917033397649408"
 - Reinforcement diameter: 1/19342813113834066795298816"
 - Reinforcement diameter: 1/38685626227668133590597632"
 - Reinforcement diameter: 1/77371252455336267181195264"
 - Reinforcement diameter: 1/154742504910672534362390528"
 - Reinforcement diameter: 1/309485009821345068724781056"
 - Reinforcement diameter: 1/618970019642690137449562112"
 - Reinforcement diameter: 1/1237940039285380274899124224"
 - Reinforcement diameter: 1/2475880078570760549798248448"
 - Reinforcement diameter: 1/4951760157141521099596496896"
 - Reinforcement diameter: 1/9903520314283042199192993792"
 - Reinforcement diameter: 1/19807040628566084398385987584"
 - Reinforcement diameter: 1/39614081257132168796771975168"
 - Reinforcement diameter: 1/79228162514264337593543950336"
 - Reinforcement diameter: 1/158456325028528675187087900672"
 - Reinforcement diameter: 1/316912650057057350374175801344"
 - Reinforcement diameter: 1/633825300114114700748351602688"
 - Reinforcement diameter: 1/1267650600228229401496703205376"
 - Reinforcement diameter: 1/2535301200456458802993406410752"
 - Reinforcement diameter: 1/5070602400912917605986812821504"
 - Reinforcement diameter: 1/10141204801825835211973625643008"
 - Reinforcement diameter: 1/20282409603651670423947251286016"
 - Reinforcement diameter: 1/40564819207303340847894502572032"
 - Reinforcement diameter: 1/81129638414606681695789005144064"
 - Reinforcement diameter: 1/162259276829213363391578010288128"
 - Reinforcement diameter: 1/324518553658426726783156020576256"
 - Reinforcement diameter: 1/649037107316853453566312041152512"
 - Reinforcement diameter: 1/1298074214633706907132624082305024"
 - Reinforcement diameter: 1/2596148429267413814265248164610048"
 - Reinforcement diameter: 1/5192296858534827628530496329220096"
 - Reinforcement diameter: 1/10384593717069655257060992658440192"
 - Reinforcement diameter: 1/20769187434139310514121985316880384"
 - Reinforcement diameter: 1/41538374868278621028243970633760768"
 - Reinforcement diameter: 1/83076749736557242056487941267521536"
 - Reinforcement diameter: 1/166153499473114484112975882535043072"
 - Reinforcement diameter: 1/332306998946228968225951765070086144"
 - Reinforcement diameter: 1/664613997892457936451903530140172288"
 - Reinforcement diameter



ESTIMATE OF QUANTITIES					
I T E M	UNIT	QUANTITIES			TOTAL
		EAST ABUT.	TOW N.E.	WALLS S.E.	
Concrete Class A	Cu.Yds.	218.8	4.5	4.5	227.8
Steel Reinforcement	Lbs.	33880	350	350	34580

Work this Sheet with Sheets 3, 4 & 6

SHEET 5 OF 20

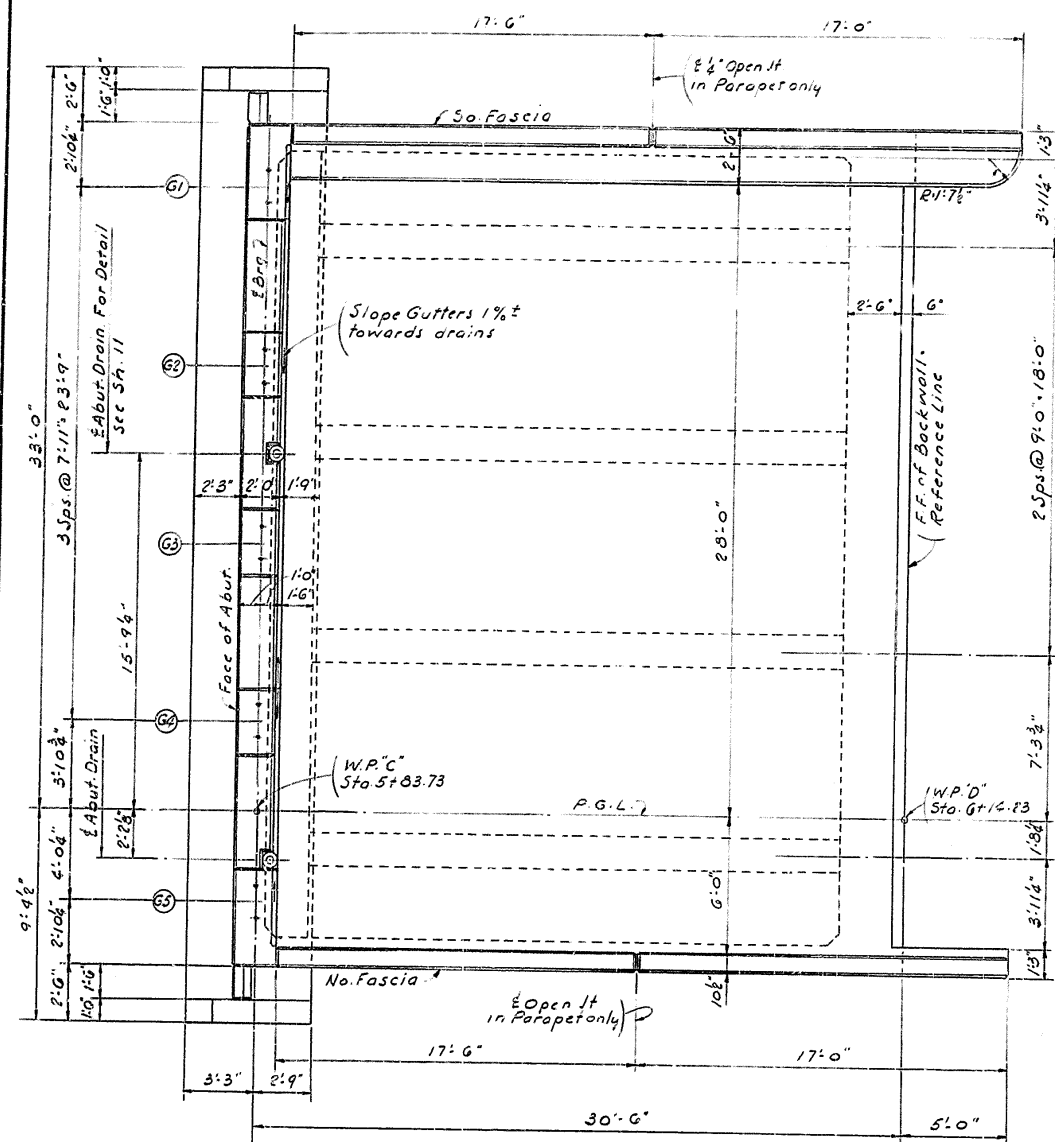
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF JEFFERSON **CITY OF LOUISVILLE**
NORTH-SOUTH EXPRESSWAY
RAMP 'D' OVER FLOYD ST.
EAST ABUTMENT-SIDEWALLS

STATION 5152.73		PROJECT NO. 165-6(9)134	
BRIDGE NUMBER		DRAWING NO. 15308	BOOK

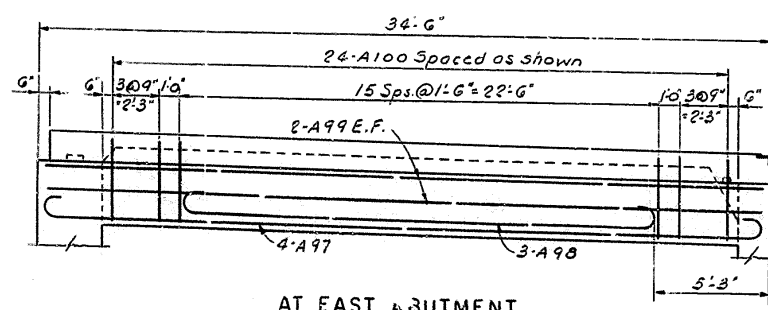
MARK	TYPE	NO.	SIZE	LENGTH		LOCATION	a		b		c		d		e		f
				FT.	IN.		FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	
A1		1	41	7	3	Footing-Bottom-Transverse	4	11	1	2	5	6	0	7			
A2	Str	43	6	5	6	Footing-Top&Bottom-Transv.											
A3	Str	12	6	40	10	Footing-Top&Bottom-Longitud.											
A4		2	10	6	4	Footing-Bottom-Longitud.	3	0	1	0	3	3	0	6			
A5	Str	8	5	10	0	Footing-Dowels											
A6		3	1	5	11		10	0	1	1	0	10					
A7		2	86	7	6		4	11	1	2	5	2 1/2	0	7			
A8	Str	1	5	5	6												
A9	Str	76	7	15	6	Front Wall-Vertical											
A10	Str	2	7	7	6												
A11	Str	2	7	4	3												
A12		4	39	7	6		3	1	3	0							
A13	Str	18	4	3	6	Toe Wall-Horizontal											
A14	Str	15	4	4	3												
A15		4	16	5	19	Front Wall-Horizontal	14	3	5	7							
A16		4	17	5	16		14	3	2	1							
A17	Str	2	5	14	3												
A18		4	12	5	30		24	9	5	7							
A19		4	4	5	22		17	4	5	7							
A20	Str	2	5	24	9												
A21	Str	10	5	5	1	Front Wall-Horizontal											
A22	Str	8	4	2	6	Front Wall at Door Corners											
A23		4	13	5	26	Front Wall-Horizontal	24	9	2	1							
A24		4	4	5	19		17	4	2	1							
A25		3	6	5	43	Curtain Wall-Horizontal	3	7	36	10	3	7					
A26		3	4	5	40		2	8	35	2	2	8					
A27		7	35	6	6	Curtain Wall-Vertical	4	3	1	9	1	7					
A28		7	35	6	9		5	6	4	0	2	10					
A29		5	37	6	13		6	4	0	10	5	10					
A30		5	35	5	9		2	4	0	10	5	10					
A31	Str	8	7	20	0	Sidewall-Vertical											
A32		3	35	5	8	Back Wall-Vertical	3	2	2	6	3	2					
A33		4	35	5	7		6	0	1	6							
A34		4	35	5	8		7	3	1	0							
A35		3	14	5	40	Back Wall-Horizontal	1	8	36	10	1	8					
A36	Str	2	5	36	10												
A37		4	35	5	10	Back Wall-Vertical	7	3	3	0							
A38		8	2	4	11	Bridge Seat-Pads	4	0	1	5							
A39		3	4	8	5		2	8	1	5							
A40		3	17	5	6		2	9	1	4	2	9					
A41		3	4	9	3		2	9	3	11	2	9					
A42		3	6	7	11		2	9	2	7	2	9					
A43	Str	4		4	0	Sidewall-Horizontal											
A44				6	0												
A45				8	0												
A46				10	0												
A47				12	0												
A48				14	0												
A49				16	0												
A50				18	0												
A51				20	0												
A52				22	0												
A53				24	0												
A54		4		26	0												
A55		12		32	6												
A56		4		34	9												
A57		4		36	9												
A58	Str	8	5	37	6												
A59		6	6	11	9												
A60		7	4	11	35												
A61	Str	2	11	32	6	Sidewall-Horizontal	29	0	6	6	2	11					
A62	Str	13	5	6	6	Sidewall-Horiz. & Vertical											

MARK	TYPE	NO.	SIZE	LENGTH		LOCATION	a		b		c		d		e		f
				FT.	IN.		FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	
A63		4	24	5	7	Sidewall-Vertical	7	0	0	10							
A64			8		8		8	0	0	10							
A65					9		9	0	0	10							
A66					10		10	0	0	10							
A67					11		11	0	0	10							
A68					12		12	0	0	10							
A69					13		13	0	0	10							
A70					14		14	0	0	10							
A71					15		15	0	0	10							
A72					16		16	0	0	10							
A73					17		17	0	0	10							
A74					18		18	0	0	10							
A75		4	8		19		19	0	0	10							
A76	Str	8		5	3	Sidewall-Vertical											
A77		4		17	3	Front Wall-Horizontal	14	3	3	1							
A78		4		27	9		24	9	3	1							
A79	Str	31		5	7	Sidewall-Horizontal											
A80		7	1	4	3	Sidewall-Vertical	3	0	1	3	0	11					
A81		7	1	4	9		3	6	1	3	0	11					
A82		7	1	5	3		4	0	1	3	0	11					
A83		7	35		5		4	6	1	3	0	11					
A84		4	1	7	3		5	3	2	1							
A85		4	1	6	9		4	9	2	1							
A86		4	1	6	3		4	3	2	1							
A87		4	1	5	9		3	9	2	1							
A88	Str	34		4	6												
A89		9	34		3												
A90		4	34		5		4	6	1	0							
A91		5	34		3		4	6	0	10	3	6					
A92		5	4		11	Sidewall-Vertical	4	10	2	0	4	10					
A93		10	113	5	9	Slab-Parapet-Vertical											
A94	Str	8	4	19	6	Slab-Parapet-Horizontal											
A95	Str	4	4	15	6												
A96	Str	12	4	19	0												
A97		1	16	11	36	Slab-Beams	32	10	2	0	33	11 1/2	1	1 1/2			
A98		1	12	10	25		21	4	1	10	22	4 1/2	1	0 1/2			
A99	Str	16	6	34	0												
A100		11	96	5	9												
A101	Str	69	6	37	0	Slab-Deck-Transverse											
A102		12	23	6	38												
A103	Str	34	4	33	6	Slab-Deck-Longitudinal											
A104	Str	29	4	32	0												
A105	Str	8	4	39	0												
A106	Str	3	4	38	0												
A107		4	3 1/2	5	5	Backwall-Vertical	2	3	3	0							
T 1		2	20	6	10	Footing-Longitudinal	9	9	1	0	10	0	0	6			
T 2	Str	28	4	2	0												
T 3	Str	88	4	9	6												
T 4	Str	72	4	10	0												

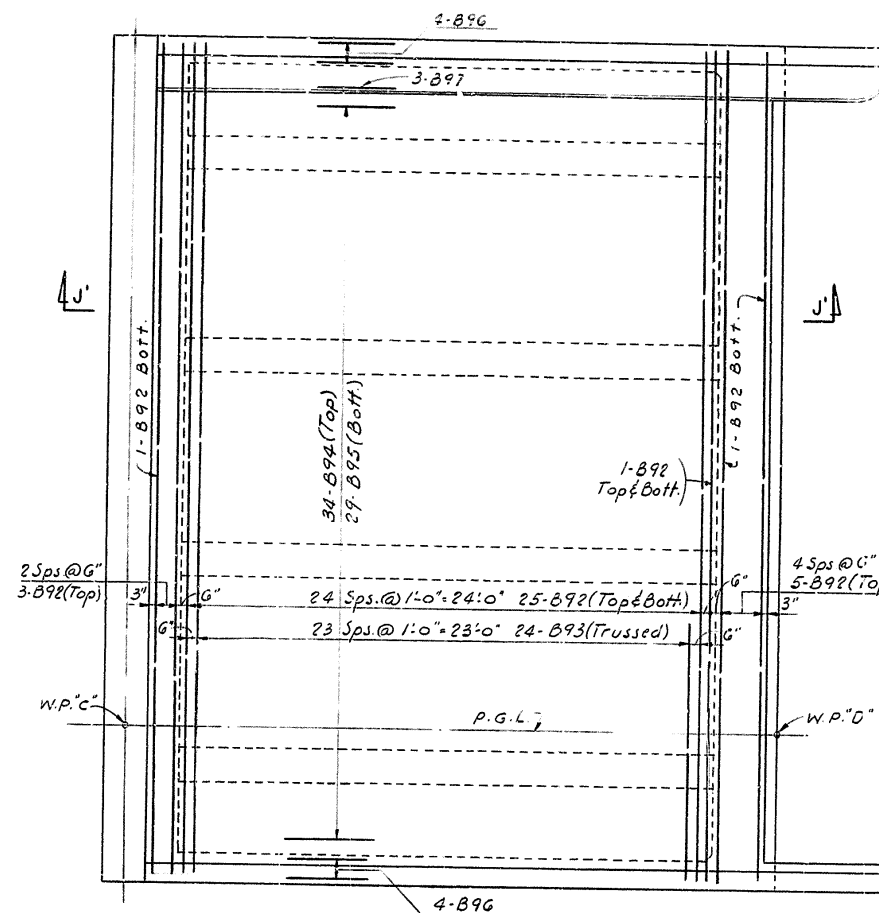
																	7	KY.			
MARK	TYPE	NO.	SIZE	LENGTH		LOCATION	a		b		c		d		e		f				
				FT.	IN.		FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.					



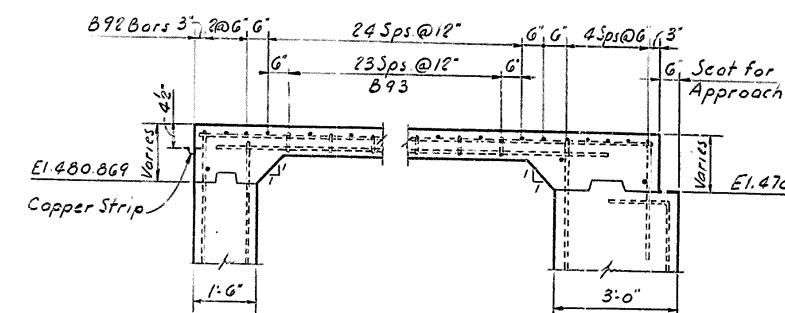
PLAN



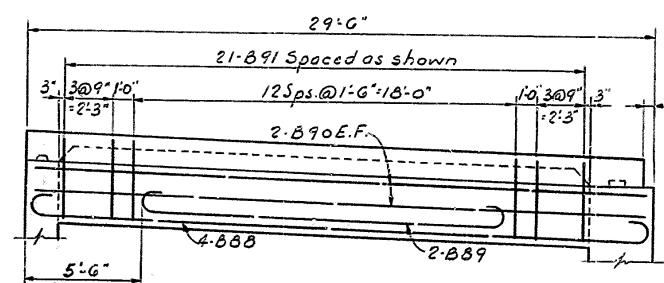
AT EAST ABUTMENT



DECK REINFORCEMENT



SECTION J'-J'



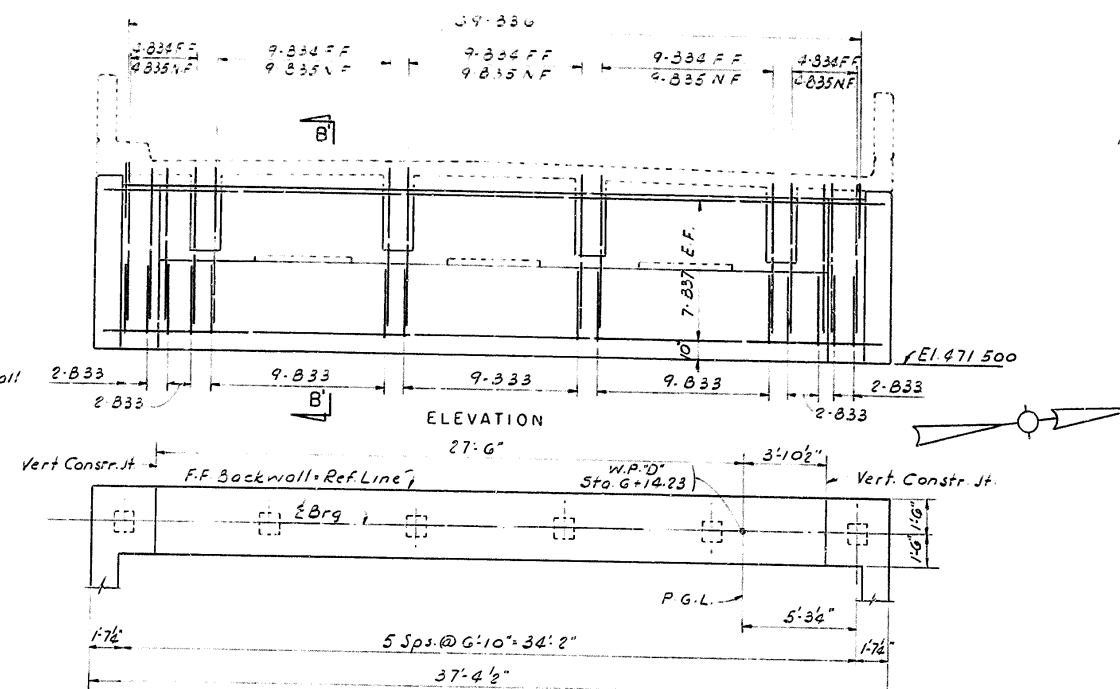
AT WEST ABUTMENT

Work this Sheet with Sheets 8 to 11

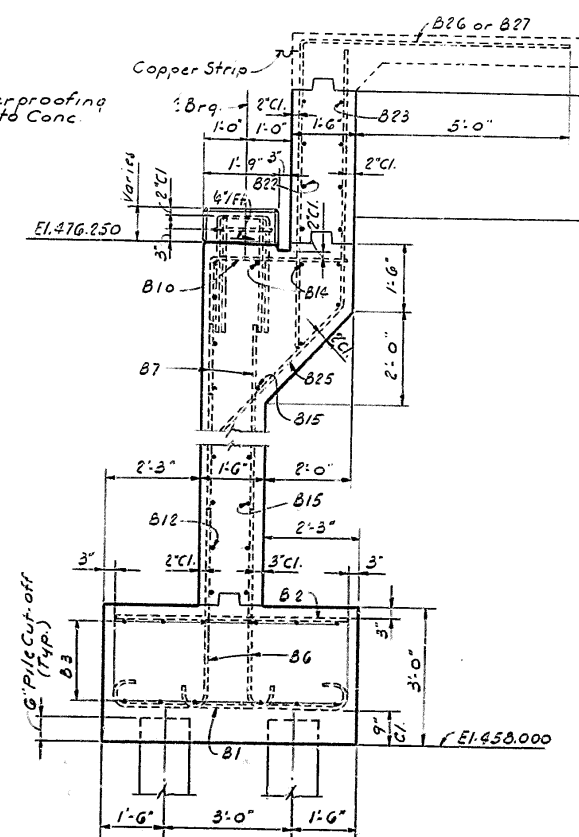
Sheet 7 of 20

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF JEFFERSON **CITY OF LOUISVILLE**
NORTH-SOUTH EXPRESSWAY
RAMP 'D' OVER FLOYD ST.
WEST ABUTMENT - PLAN AND DETAILS
STATION 5+52.73 **PROJECT NO. 165-6 (9) 134**

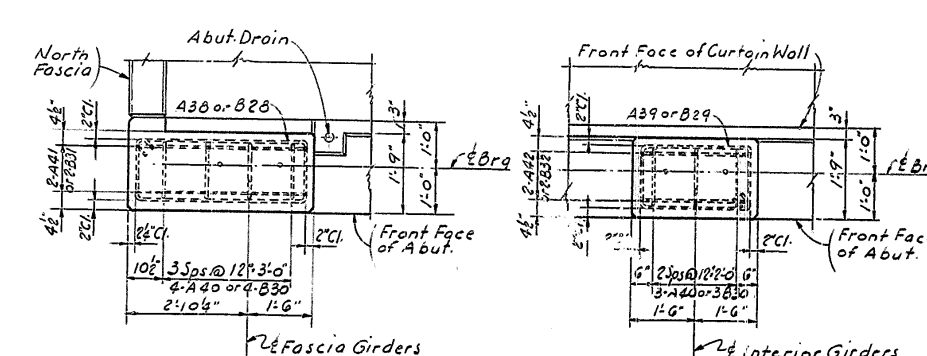
DRAWING	INDEX
No. 15308	



PLAN
BACK WALL DETAILS



SECTION A'-A'



PLAN OF TYPICAL PAD REINFORCEMENT

Work this Sheet with Sheets 7 & 9 to 11.

Sheet 8 of 20

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

COUNTY OF JEFFERSON CITY OF LOUISVILLE

NORTH-SOUTH EXPRESSWAY

RAMP 'D' OVER FLOYD ST.

WEST ABUTMENT - FRONT WALL & BACK WALL

STATION 5+52.73 PROJECT NO. 165-6 (D) 154

BRIDGE NUMBER	DRAWING	INDEX

15208

Sheet 9 of 20

COMMONWEALTH OF KENTUCKY	
DEPARTMENT OF HIGHWAYS	
FRANKFORT	
COUNTY OF JEFFERSON	CITY OF LOUISVILLE
NORTH-SOUTH EXPRESSWAY	
RAMP 'D' OVER FLOYD ST.	
WEST ABUTMENT- SIDEWALLS	
STATION 5+52.73	PROJECT NO. 165-6(1) 134
BRIDGE NUMBER	DRAWING NO. 15308

MARK	TYPE	NO.	SIZE	LENGTH		LOCATION	a		b		c		d		e		f
				FT.	IN.		FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.
B63		4	8	5	14	3	Sidewall-Vertical	13	6	0	10						
B64		4	8	7	15	3	"	14	6	0	10						
B65		4	8	7	16	3		15	6	0	10						
B66		4	8	7	17	3		16	6	0	10						
B67	Str	8	5	5	0		"										
B68	Str	8	7	18	6		Sidewall-Vertical										
B69	Str	29	5	5	7		Sidewall-Horizontal										
B70		4	1	5	17	4	Frontwall-Horizontal	14	4	3	1						
B71		4	1	4	5	9	Sidewall-Vertical	3	9	2	1						
B72		4	1		5	3	"	4	3	2	1						
B73		4	1		5	9	"	4	9	2	1						
B74		4	1		7	3	"	5	3	2	1						
B75		7	1		4	3	"	3	0	1	3	0	11				
B76		7	1		4	9	"	3	6	1	3	0	11				
B77		7	1		5	3	"	4	0	1	3	0	11				
B78		7	30		5	9	"	4	6	1	3	0	11				
B79		5	29		3	10	"	4	6	0	10	3	6				
B80		9	29		3	3	"										
B81	Str	29			4	6	"										
B82		4	29		5	5	"	4	6	1	0						
B83		5	4	7	11	8	Sidewall-Vertical	4	10	2	0	4	10				
B84		10	97	5	9	0	Slab-Parapet-Vertical										
B85	Str	4	4	12	6		Slab-Parapet-Horizontal										
B86	Str	8	4	16	6		"										
B87	Str	12	4	17	0		"										
B88	I	16	11	31	10		Slab-Beams	27	10	2	0	28	11	1	1		
B89	I	8	10	20	0		"	16	4	1	10	17	4	1	0		
B90	Str	16	6	29	0		"										
B91	I	8	5	9	4		"										
B92	Str	63	6	37	0		Slab-Deck-Transverse										
B93	I2	24	6	33	0		"										
B94	Str	34	4	28	6		Slab-Deck-Longitudinal										
B95	Str	29	4	27	0		"										
B96	Str	8	4	34	0		"										
B97	Str	3	4	33	0		"										
B98		4	34	5	5	3	Backwall-Vertical	2	3	3	0						

[illegible]

SHEET 10 OF 20

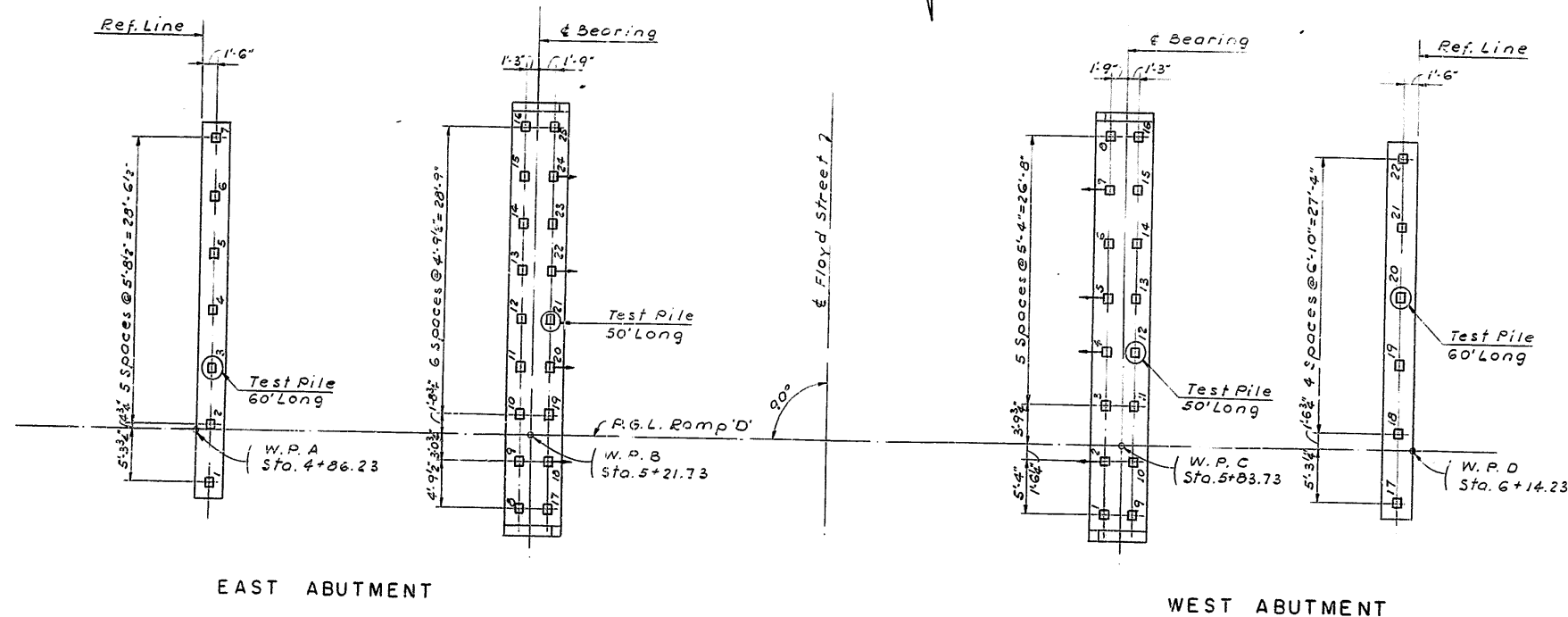
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF JEFFERSON CITY OF LOUISVILLE
NORTH-SOUTH EXPRESSWAY
RAMP D OVER FLOYD STREET
BILL OF REINFORCEMENT
WEST ABUTMENT

STATION 5+52.73

BRIDGE
NUMBER

DRAWING	INDEX
NO. 15308	

SIDEWALL ELEVATION



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

- Denotes Vertical Piles
- ⊞ Denotes Battered Piles 3 on 12
- ⊙ Denotes Test Piles

PILE RECORD				
EAST 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	474.50			
2				
3				
4				
5				
6				
7	474.50			
8	458.50			
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25	458.50			
WEST ABUTMENT				
1	458.50			
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16	458.50			
17	472.00			
18				
19				
20				
21				
22	472.00			

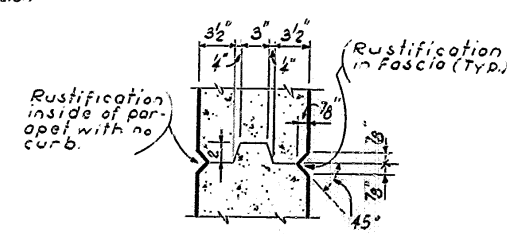
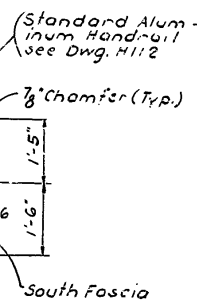
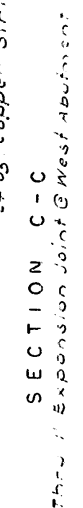
SHEET 12 OF 20

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE
NORTH-SOUTH EXPRESSWAY
RAMP 'D' OVER FLOYD ST.
PILE RECORD

STATION 5+52.73 PROJECT NO. 165-6(9) 134

BRIDGE NUMBER	DATE	NO.
		15308



Technical drawings of five types of metal channel sections:

- TYPE 1:** A U-shaped channel with dimensions: top flange width b , web height d , bottom flange width a , and total width c .
- TYPE 2:** A long channel with a series of V-shaped indentations. Dimensions include: total length $37'-0\frac{1}{2}" \pm 0.100$, individual segment lengths (e.g., $4'-1\frac{1}{2}"$, $4'-0"$, $4'-3'-3"$), and angles (10° , 15° , $4\frac{1}{2}"$).
- TYPE 3:** A channel with a curved bottom flange. Dimensions include: top flange width $2'-1"$, web height $2"$, bottom flange width $4"$, and angles ($1'-2"$, $1'-0"$, $8"$).
- TYPE 4:** A U-shaped channel with dimensions: top flange width $3"$, web height $2'-7\frac{1}{4}"$, and bottom flange width $6\frac{1}{2}"$.
- TYPE 5:** A channel with a sloped bottom flange. Dimensions include: top flange width $2'-5"$, web height $8\frac{1}{2}"$, bottom flange width $1'-4"$, and angles ($10\frac{1}{2}"$, $7\frac{1}{2}"$).
- TYPE 6:** A channel with a sloped bottom flange. Dimensions include: top flange width $1'-2"$, web height $2'-9"$, bottom flange width $7"$, and angles ($15\frac{1}{4}"$, $10"$).
- TYPE 7:** A U-shaped channel with dimensions: top flange width $1'-8"$, web height $1'-8"$, and bottom flange width $1'-8"$.

SHEET 13 OF 20

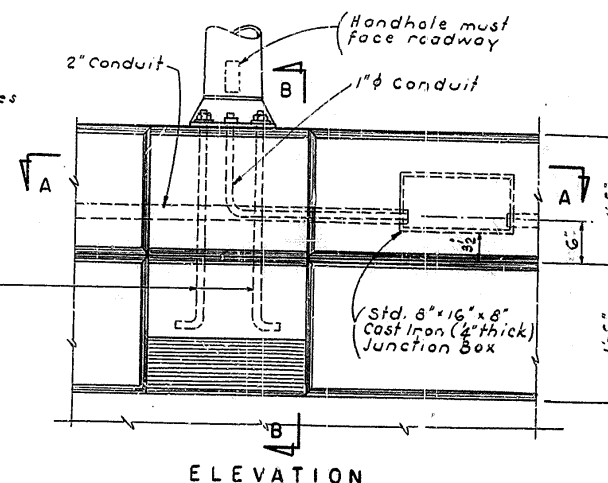
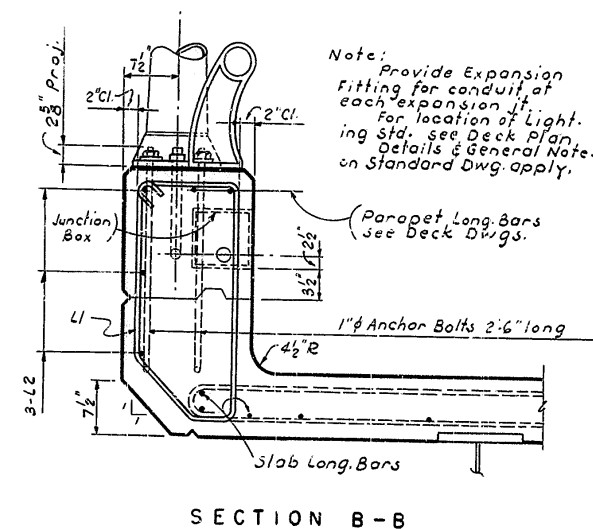
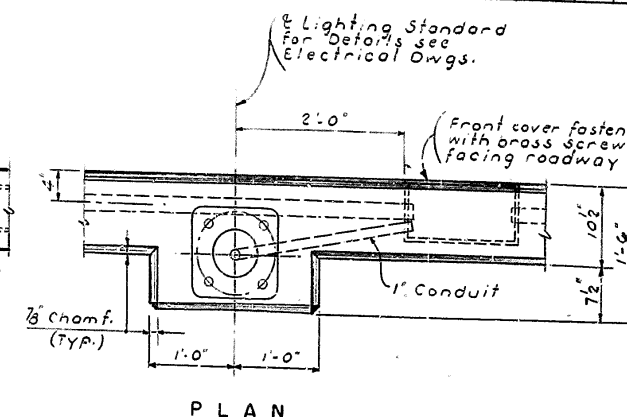
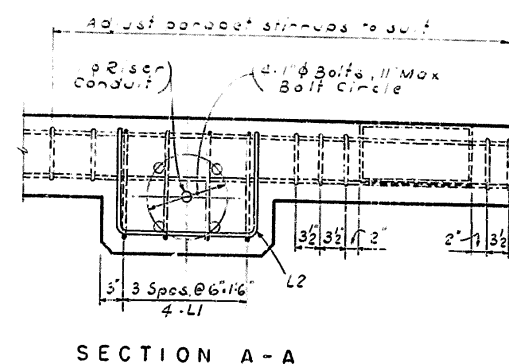
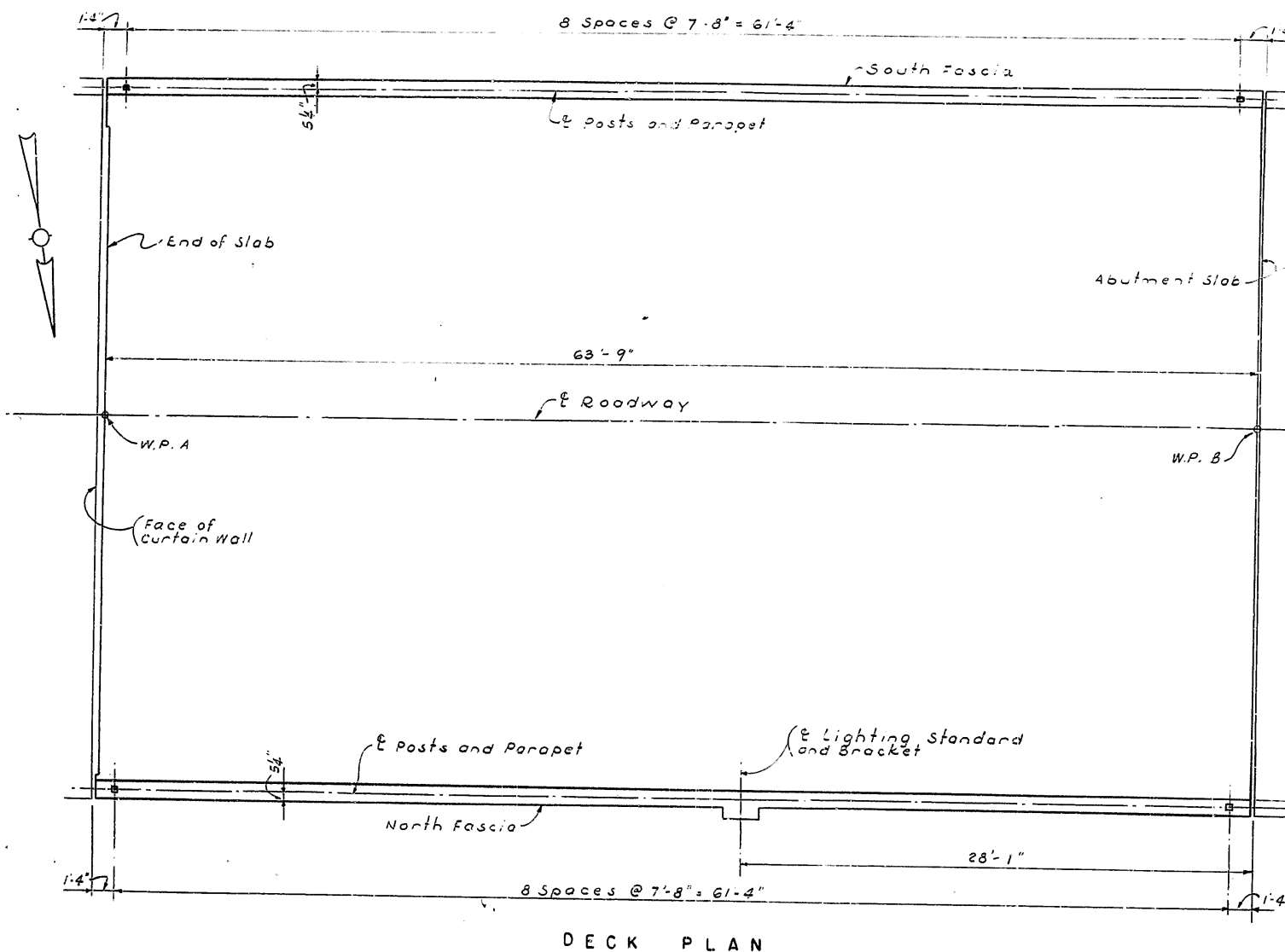
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE

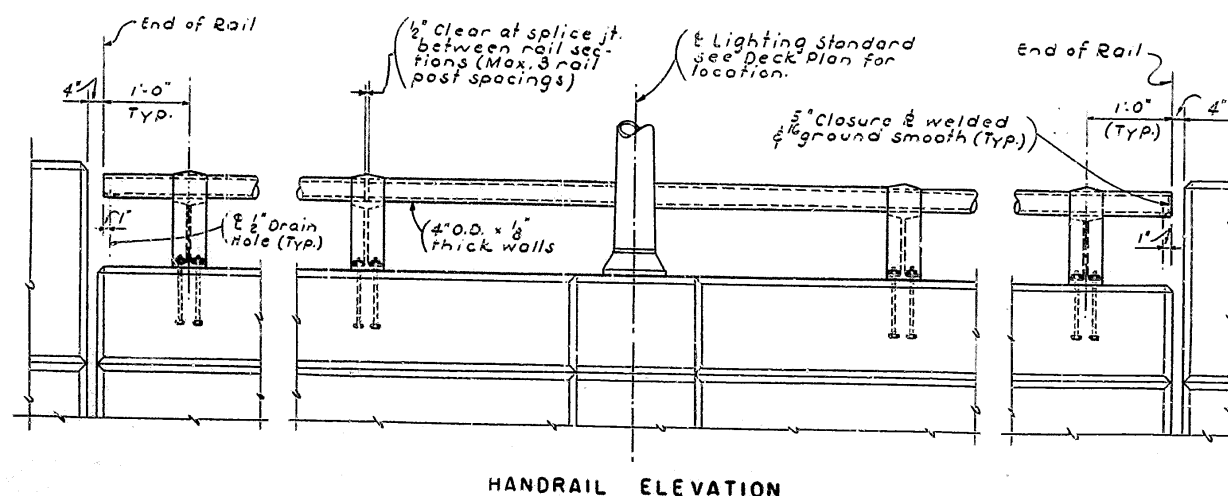
NORTH-SOUTH EXPRESSWAY
RAMP 'D' OVER FLOYD ST.

SUPERSTRUCTURE DETAILS

STATION 5 + 52.73	PROJECT NO. 265 - 6 (9) 134	DRAWING no. 15308
BRIDGE NUMBER		INDEX



LIGHTING STANDARD MOUNTING DETAIL



ESTIMATE OF QUANTITIES		
ITEM	UNIT	QUANTITY
Aluminum Handrail	Lin. Ft.	127

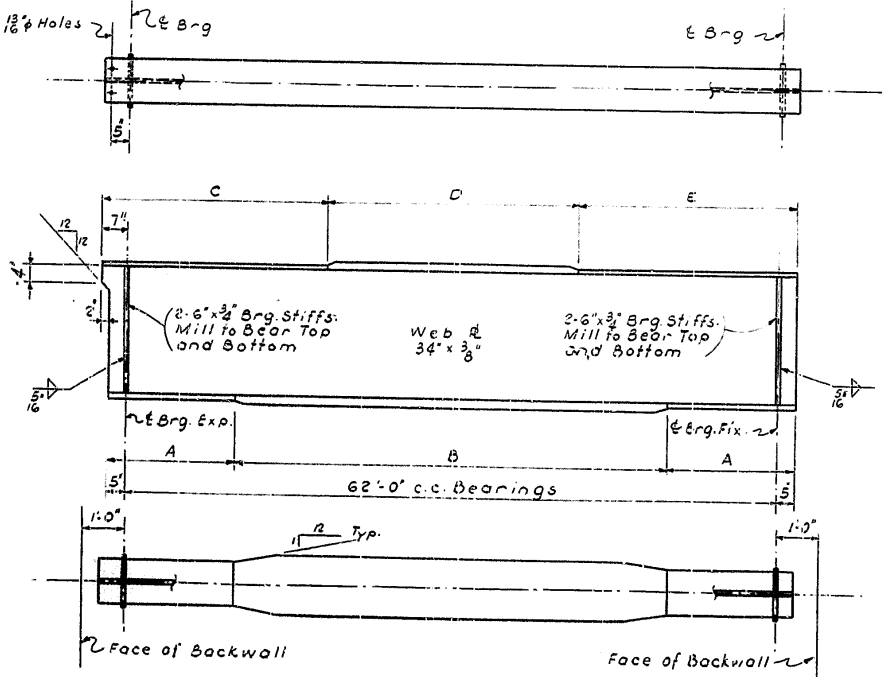
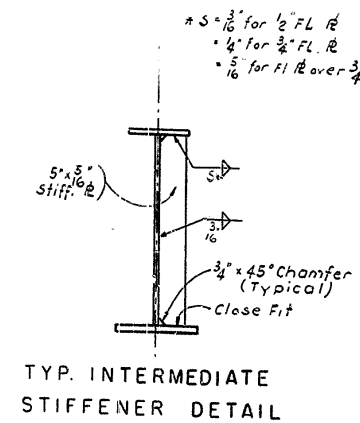
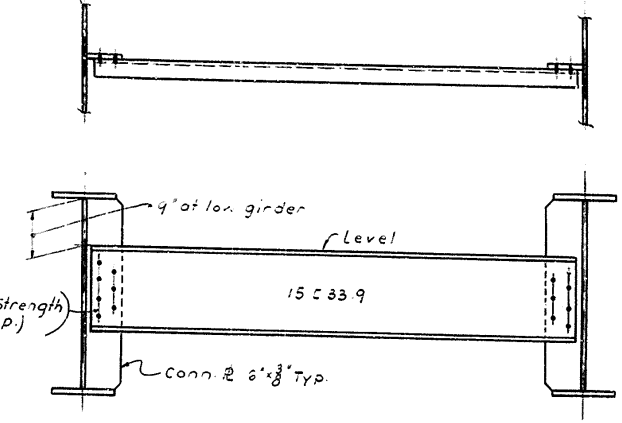
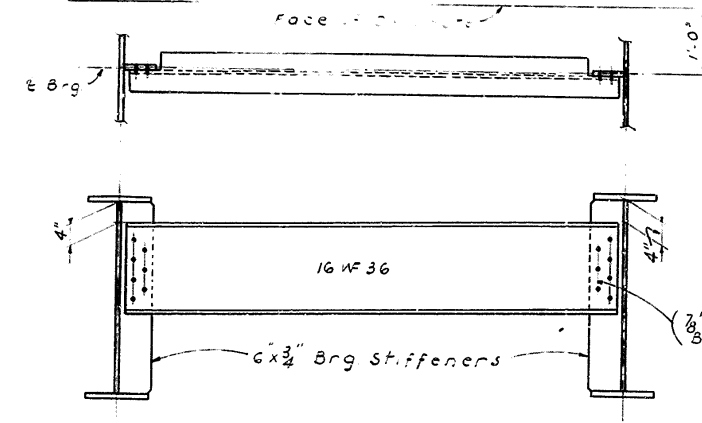
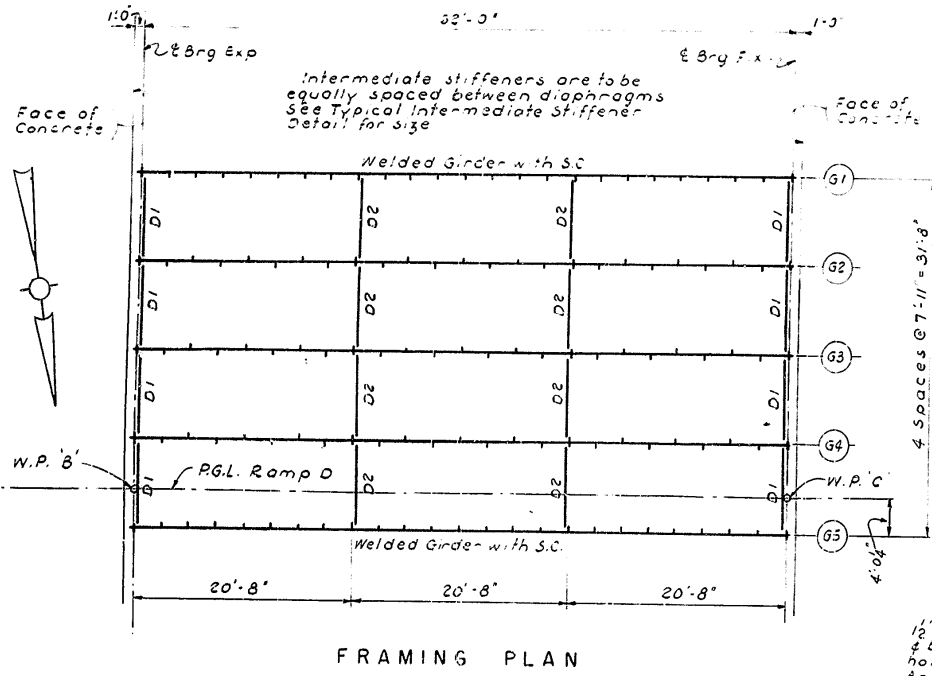
Work this sheet with Sheet 13

SHEET 14 OF 20

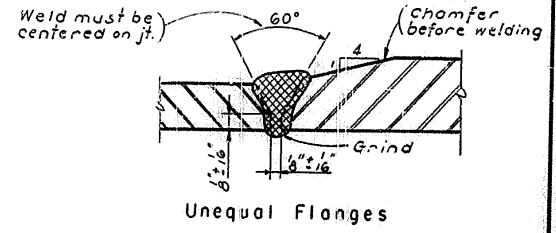
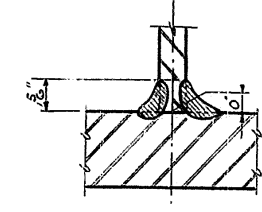
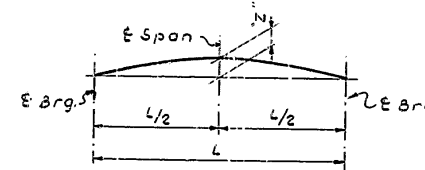
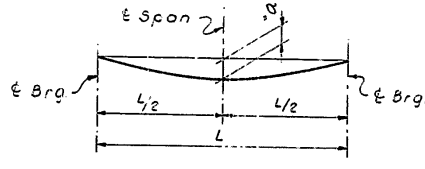
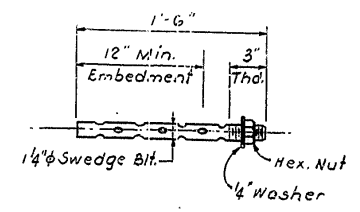
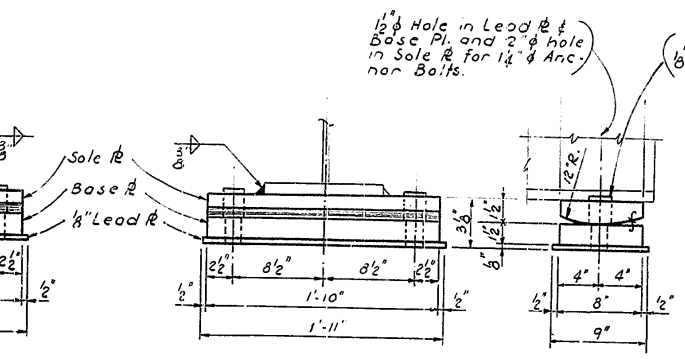
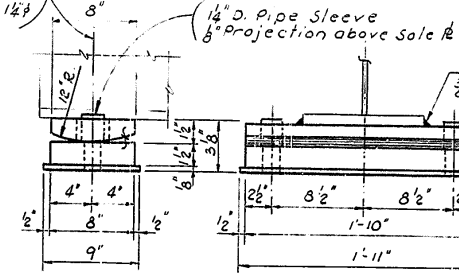
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
TRANSPORT

COUNTY OF JEFFERSON CITY OF LOUISVILLE
NORTH-SOUTH EXPRESSWAY
RAMP 'D' OVER FLOYD ST.
SUPERSTRUCTURE DETAILS

STATION 5+52.73 PROJECT NO. 165-6(9)134
BRIDGE NUMBER 15308



1/2" Hole in Lead R & Base R, 2 x 3 slotted hole in Sole R for 1/2" Anchor Bolts.



Note: Intermediate stiffeners not shown. See Framing Plan for location and Typical Intermediate Stiff. Detail for size.

GIRDERS	GIRDERS G1 TO G5				
	BOTTOM R		TOP R		
	A	B	C	D	E
G1	12' x 1' x 11'-5"	16' x 1/2" x 40'-0"	12' x 1/2" x 14'-7"	12' x 3/4" x 34'-0"	12' x 1/2" x 14'-5"
G2, G3, G4	12' x 1' x 10'-5"	16' x 1/2" x 42'-0"	12' x 1/2" x 14'-7"	12' x 3/4" x 24'-0"	12' x 1/2" x 14'-5"
G5	12' x 1' x 11'-5"	16' x 1/2" x 40'-0"	12' x 1/2" x 20'-1"	12' x 3/4" x 23'-0"	12' x 1/2" x 14'-11"

GIRDER	DEFLECTION "a"				V.C. ORD.	CAMBER %
	STEEL	CONCR.	S.I.*	TOTAL		
G1	0.208'	1.040'	0.067'	1.315'	1.030'	23'
G2 to G4	0.222'	0.876'	0.099'	1.197'	1.030'	24'
G5	0.222'	0.937'	0.085'	1.244'	1.030'	24'

* S.I. = Superimposed

SHEET 15 OF 20

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

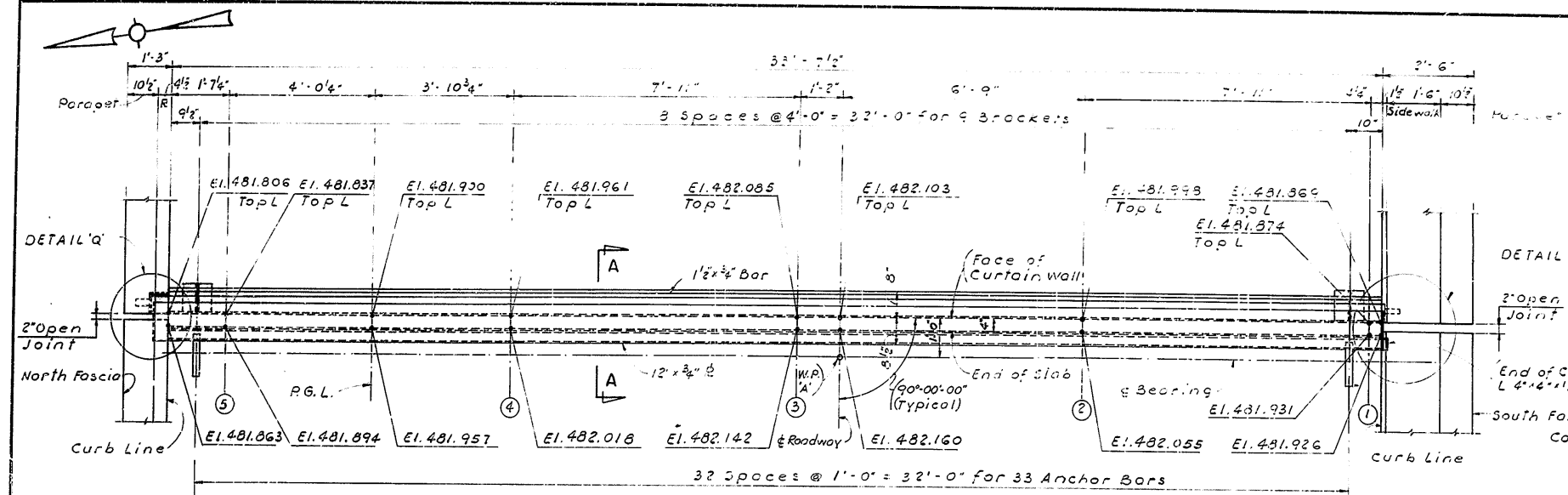
COUNTY OF JEFFERSON CITY OF LOUISVILLE

**NORTH-SOUTH EXPRESSWAY
RAMP D OVER FLOYD STREET**

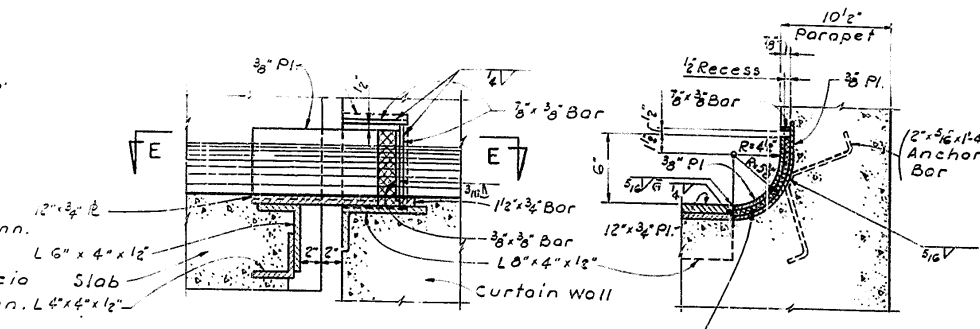
STRUCTURAL STEEL DETAILS

STATION 5+52.73 PROJECT NO. 165-6(9)134

BRIDGE NUMBER 15308

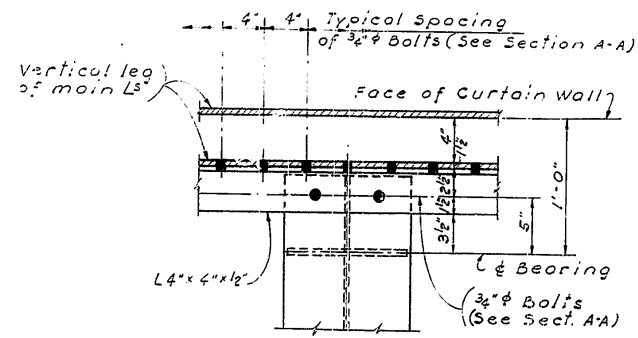


PLAN

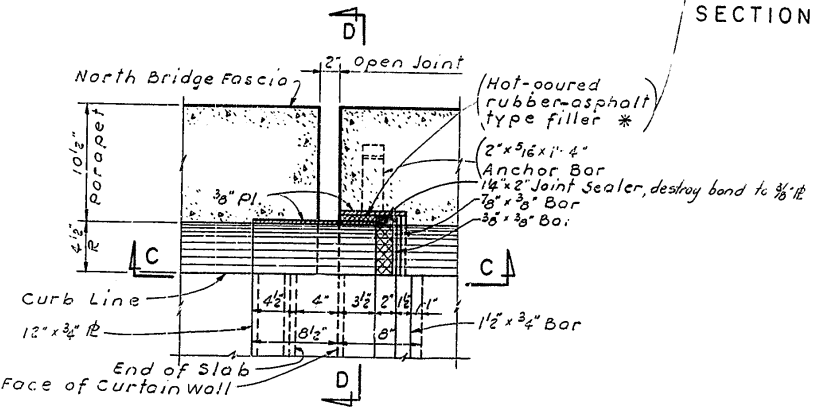


SECTION C-C

SECTION D-D

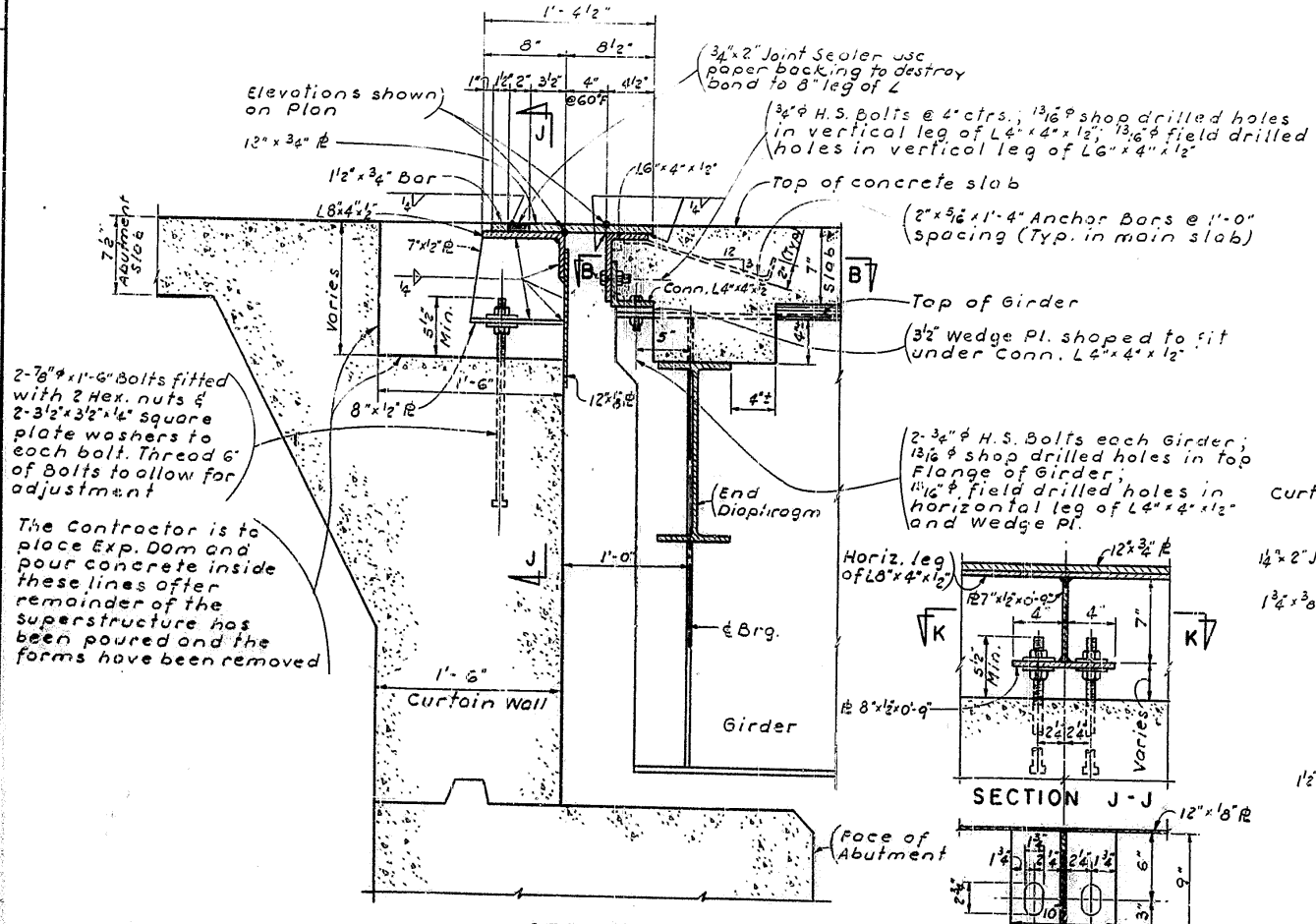


SECTION B-B

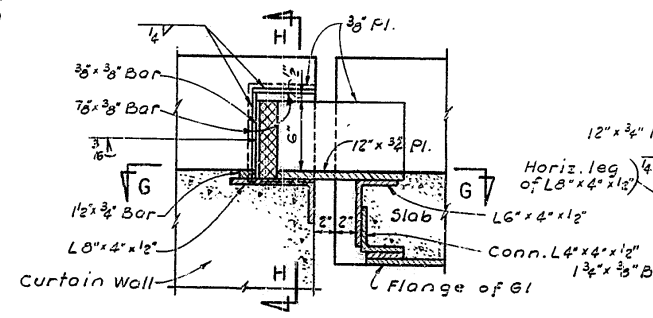


SECTION E-E

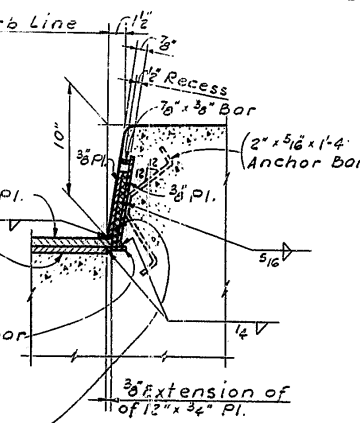
DETAIL 'Q'



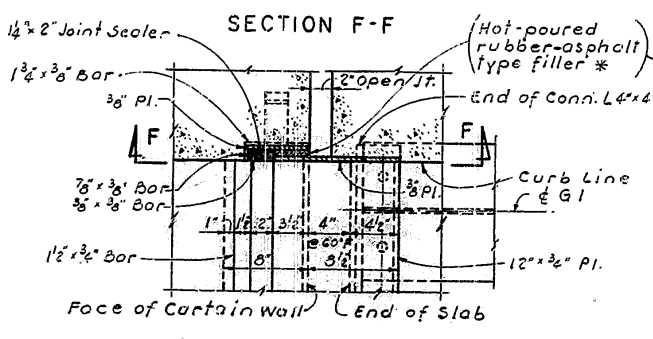
SECTION A-A



SECTION F-F

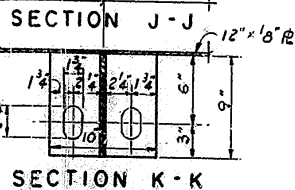


SECTION H-H



SECTION G-G

DETAIL 'R'



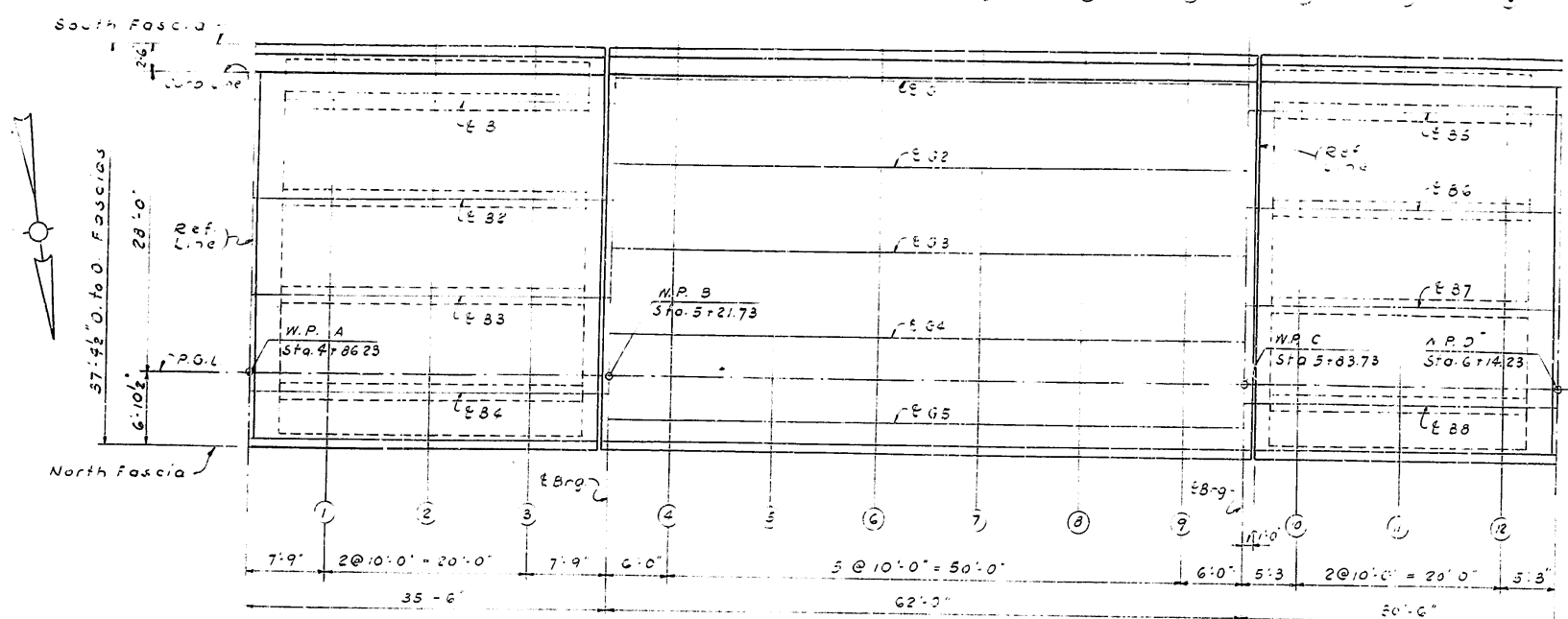
SECTION K-K

* NOTE: Hot-Poured Rubber-Asphalt Type Filler meeting requirements of Federal Specifications SS-S-164 (Incidental to Class A Concrete)

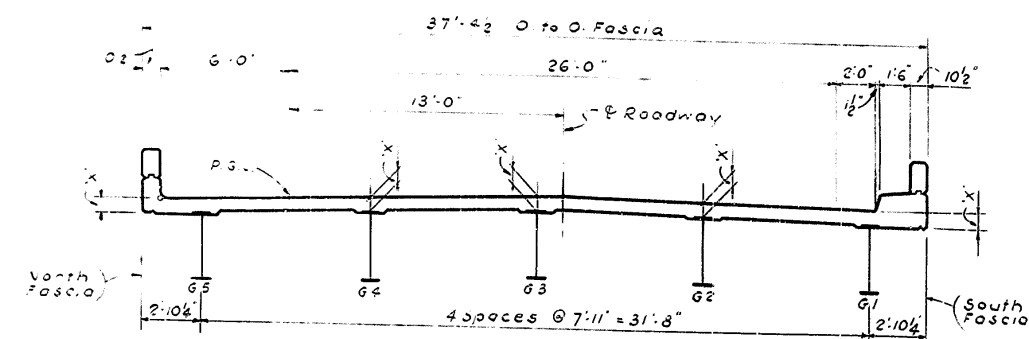
Work this Sheet with Sheet 15

SHEET 17 OF 20

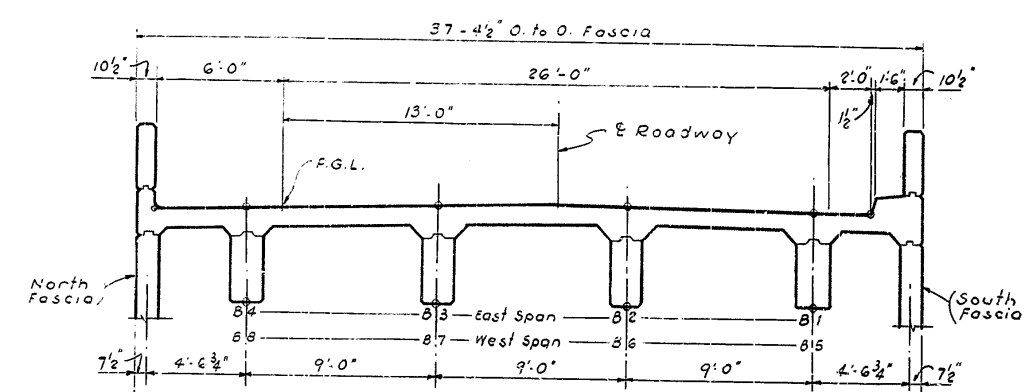
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 COUNTY OF JEFFERSON PLANKFORD CITY OF LOUISVILLE
 NORTH-SOUTH EXPRESSWAY
 RAMP 'D' OVER FLOYD ST.
 EXPANSION DAM AT EAST ABUTMENT
 STATION 5+52.73 PROJECT NO. 1 65-6(1) 154
 BRIDGE NUMBER 15308



PLAN

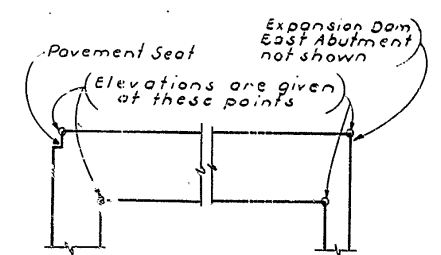


TYPICAL BRIDGE CROSS SECTION



Elevations given at points marked + contain Construction Camber and must be maintained with false-work in place.

TYPICAL ABUTMENT CROSS SECTION



LONGITUDINAL SECTION AT E BEAMS

CONSTRUCTION NOTES:

Take elevations on top of steel at points indicated in main span 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 Dimension "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.

TABLE OF CONSTRUCTION ELEVATIONS																					
LINE	STATION	DISTANCE TO LINE	CONSTR. ELEVATION	TOP OF STEEL ELEVATION	DIM. "X"	DISTANCE TO LINE	CONSTR. ELEVATION	TOP OF STEEL ELEVATION	DIM. "X"	DISTANCE TO LINE	CONSTR. ELEVATION	TOP OF STEEL ELEVATION	DIM. "X"	DISTANCE TO LINE	CONSTR. ELEVATION	TOP OF STEEL ELEVATION	DIM. "X"				
GIRDER G1						GIRDER G2				GIRDER G3				GIRDER G4				GIRDER G5			
END OF SLAB	5+21.06	—	481.931	—	—	—	482.055	—	—	—	482.142	—	—	—	482.018	—	—				
4-4	5+27.73	6'-0"	481.861	—	—	6'-0"	481.986	—	—	6'-0"	482.073	—	—	6'-0"	481.949	—	—				
5-5	5+37.73	16'-0"	481.736	—	—	16'-0"	481.857	—	—	16'-0"	481.944	—	—	16'-0"	481.820	—	—				
6-6	5+47.73	26'-0"	481.575	—	—	26'-0"	481.694	—	—	26'-0"	481.781	—	—	26'-0"	481.657	—	—				
7-7	5+57.73	36'-0"	481.377	—	—	36'-0"	481.496	—	—	36'-0"	481.582	—	—	36'-0"	481.459	—	—				
8-8	5+67.73	46'-0"	481.142	—	—	46'-0"	481.263	—	—	46'-0"	481.350	—	—	46'-0"	481.226	—	—				
9-9	5+77.73	56'-0"	480.860	—	—	56'-0"	480.986	—	—	56'-0"	481.072	—	—	56'-0"	480.948	—	—				
END OF SLAB	5+84.73	—	480.669	—	—	—	480.793	—	—	—	480.879	—	—	—	480.756	—	—				
LINE	STATION	SOUTH CURB LINE ELEVATION			BEAM B1			BEAM B2			BEAM B3			BEAM B4			NORTH CURB LINE ELEVATION				
			DIST. REF. LINE TO LINE	TOP OF SLAB ELEVATION	BOTTOM OF SLAB ELEV.		DIST. REF. LINE TO LINE	TOP OF SLAB ELEVATION	BOTTOM OF SLAB ELEV.		DIST. REF. LINE TO LINE	TOP OF SLAB ELEVATION	BOTTOM OF SLAB ELEV.		DIST. REF. LINE TO LINE	TOP OF SLAB ELEVATION	BOTTOM OF SLAB ELEV.				
END OF SLAB	4+86.73	482.308	—	482.350	478.350	—	—	482.491	478.491	—	—	482.454	478.454	—	—	482.313	478.313	482.246			
INT. FACE OF WALL	4+89.23	—	—	—	478.330	—	—	—	478.470	—	—	—	478.433	—	—	—	478.292	—			
1-1	4+93.98	482.245	7'-9"	482.294	478.294	7'-9"	—	482.442	478.442	7'-9"	—	482.405	478.405	7'-9"	—	482.257	478.257	482.183			
2-2	5+03.98	482.143	17'-9"	482.195	478.195	17'-9"	—	482.346	478.346	17'-9"	—	482.309	478.309	17'-9"	—	482.158	478.158	482.080			
3-3	5+13.98	482.083	27'-9"	482.071	478.071	27'-9"	—	482.215	478.215	27'-9"	—	482.181	478.181	27'-9"	—	482.034	478.034	481.960			
INT. FACE OF WALL	5+19.23	—	—	—	477.994	—	—	—	478.135	—	—	—	478.098	—	—	—	477.957	—			
END OF SLAB	5+20.73	481.931	—	481.973	477.973	—	—	482.114	478.114	—	—	482.077	478.077	—	—	481.936	477.936	481.869			
			BEAM B5			BEAM B6			BEAM B7			BEAM B8									
END OF SLAB	5+84.73	480.664	—	480.706	476.706	—	—	480.846	476.846	—	—	480.809	476.809	—	—	480.668	476.668	480.601			
INT. FACE OF WALL	5+86.23	—	—	—	476.667	—	—	—	476.808	—	—	—	476.771	—	—	—	476.630	—			
10-10	5+88.78	480.554	4'-3"	480.601	476.601	4'-3"	—	480.746	476.746	4'-3"	—	480.709	476.709	4'-3"	—	480.564	476.564	480.491			
11-11	5+98.98	480.282	14'-3"	480.334	476.334	14'-3"	—	480.485	476.485	14'-3"	—	480.448	476.448	14'-3"	—	480.297	476.297	480.219			
12-12	6+08.98	479.992	24'-3"	480.041	476.041	24'-3"	—	480.187	476.187	24'-3"	—	480.150	476.150	24'-3"	—	480.004	476.004	479.930			
INT. FACE OF WALL	6+11.23	—	—	—	475.967	—	—	—	476.108	—	—	—	476.070	—	—	—	475.930	—			
END OF SLAB	6+13.73	479.849	—	479.891	475.891	—	—	480.032	476.032	—	—	479.994	475.994	—	—	479.854	475.854	479.786			

SHEET 19 OF 20

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

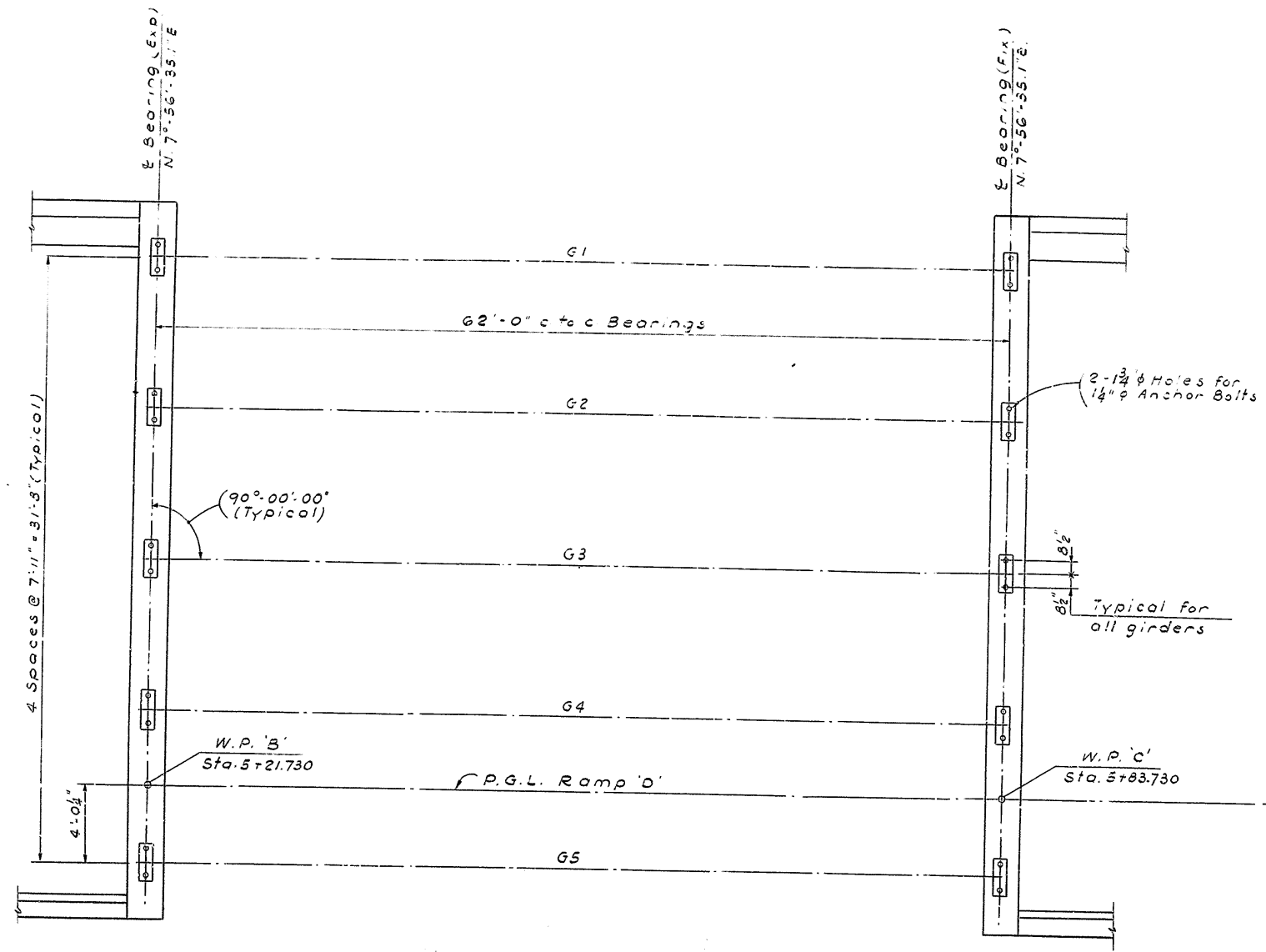
COUNTY OF JEFFERSON CITY OF LOUISVILLE

**NORTH-SOUTH EXPRESSWAY
RAMP 'D' OVER FLOYD ST.
CONSTRUCTION ELEVATIONS**

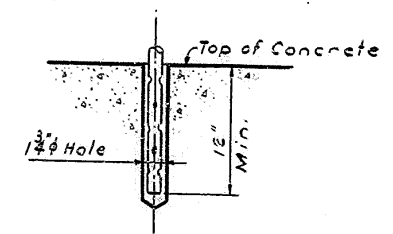
STATION 5+52.73 PROJECT NO. 165-6(9) 134

BRIDGE NUMBER NO. 15308

PRO. NO.	STATE	PRO. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



ANCHOR BOLT LAYOUT



ANCHOR BOLT HOLE

Note:
Holes of depth and dimensions shown shall be drilled for Anchor Bolts by the Superstructure Contractor, who shall be responsible for keeping holes dry in freezing weather. After Base Plates 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 the tops of the 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.

DESIGNED BY	DATE	CHECKED BY	DATE
U.M.		J.M.	
SCALE		DATE	
DATE		DATE	

SHEET 20 OF 20

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF JEFFERSON CITY OF LOUISVILLE
 NORTH-SOUTH EXPRESSWAY
 RAMP 'D' OVER FLOYD ST.
ANCHOR BOLT LAYOUT
 STATION 5+52.73 PROJECT NO. 165-6(9)134
 BRIDGE NUMBER DRAWING NO. 15308