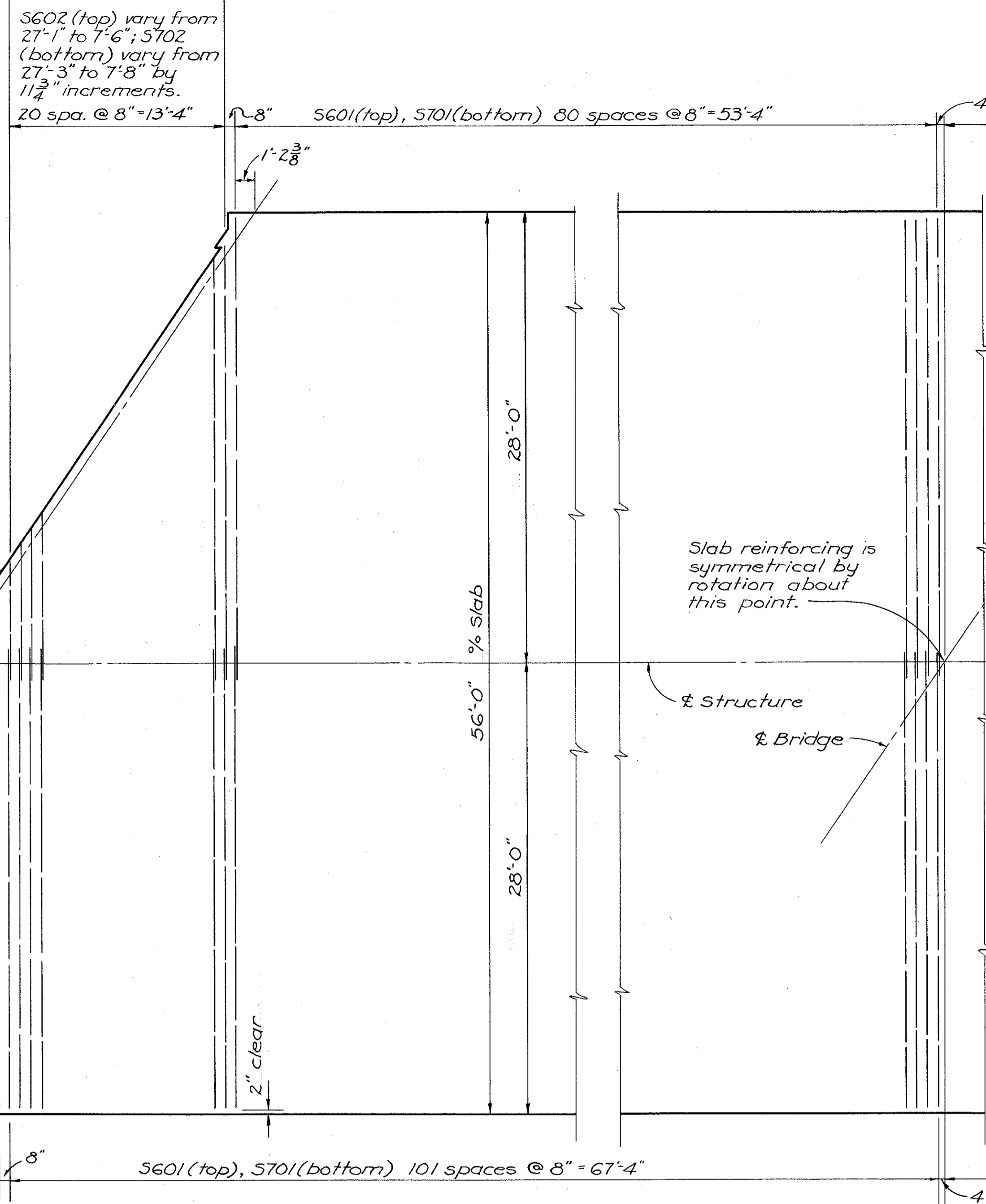


LAK-2-0.00



Bars extend to vertical face of end dam.

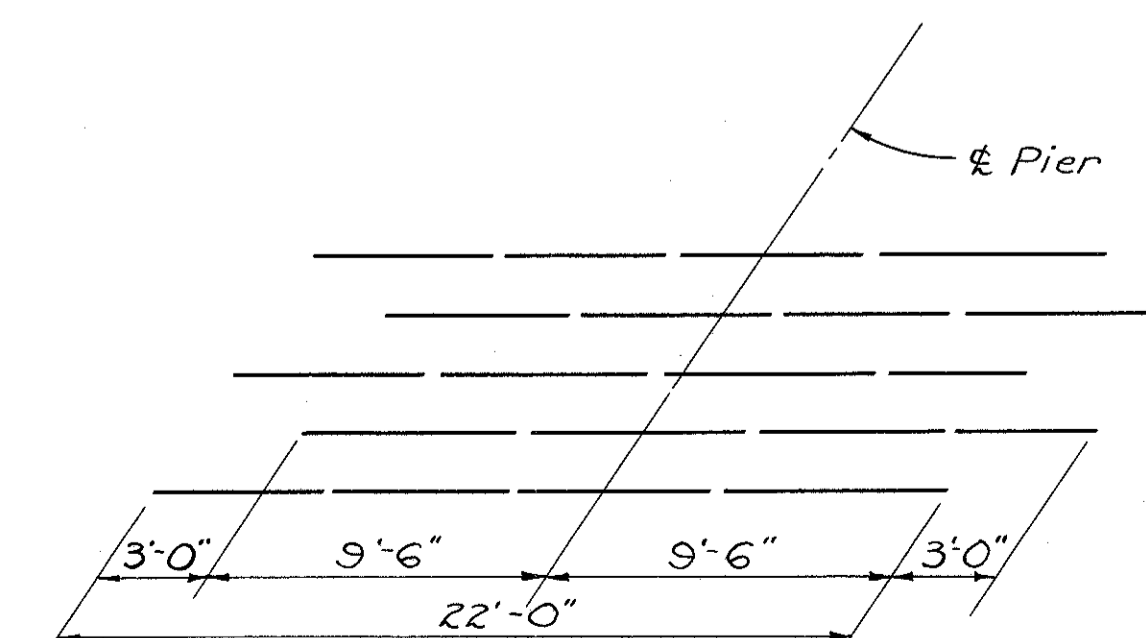
Slab reinforcing is symmetrical by rotation about this point.

Included with Railing for Payment.

PART PLAN

Showing placement of transverse steel in slab
(Same for both Eastbound and Westbound Bridges)

- NOTE: See COMMON DETAILS, Sheets No. 394 and 393A for the following details:
1. End Crossframes
 2. Beam End Details
 3. Welded Butt Joint in Superstructure End Dam Angles
 4. Curb Plate Details
 5. End Dam Details
 6. 2" Dia. standard pipe drain at end of bulb angle gutter at all four corners of both bridges.
 7. Gutter and Scupper Details
 8. Railing and Parapet Details
 9. Bearing Plate Details



PLACEMENT DIAGRAM

Showing stagger of 5605 bars over piers

REINFORCING STEEL LIST

Mark	No.	Length	Weight	Shp	Bending Diagrams	Mark	No.	Length	Weight	Shp	
SUPERSTRUCTURE					ABUTMENTS						
S701	732	28'-11"	43,265	S	S501 1'-4" %	A801	32	35'-11"	3,069	S	
	4	7'-8"			S503 2'-2" ±	A802	32	34'-9"	2,969	S	
S702	Series to	27'-3"	2,998	S	Vary by 11 3/4" increments	A803	8	13'-10"	295	S	
	4	6'-0"			P1001 5'-5" ±	A804	8	12'-0"	256	S	
S703	Series to	33'-5"	4,673	S	Vary by 11 3/4" increments	A805	8	11'-0"	235	S	
	4	6'-0"			A523 3'-2" ±	A806	8	9'-4"	199	S	
S704	20	5'-6"	225	S	A525 4'-4" ±	AG01	172	14'-7"	3,768	B	
S601	732	28'-10"	31,701	S	10'-11" ±	AG02	80	12'-3"	1,472	B	
	4	7'-6"			R=6'-0"	A501	296	9'-4"	2,881	B	
S602	Series to	27'-1"	2,182	S	Vary by 11 3/4" increments	A502	16	35'-6"	592	S	
	4	6'-0"			P1004 27'-0" %	A503	128	13'-6"	1,802	B	
S603	Series to	33'-5"	3,434	S	Vary by 11 3/4" increments	A504	56	34'-3"	2,000	S	
	4	6'-0"			P601 8'-8" %	A505	168	4'-5"	774	B	
S604	1030	30'-5"	47,056	S	P501 6'-8" %	A506	80	7'-1"	591	B	
S605	184	22'-0"	6,080	S	P502 7'-8" %	A507	4	13'-10"	58	S	
S606	20	5'-6"	165	S	P804 20'-4" ±	A508	12	12'-0"	150	S	
S501	584	2'-4"	1,421	B	P504 7'-7" ±	A509	124	8'-0"	1,035	S	
S502	312	1'-10"	597	S	A527 9" ±	A510	16	11'-9"	196	S	
S503	312	4'-9"	1546	B	A528 1'-5" ±	A511	16	11'-3"	188	S	
RAILING					PIERS						
R501	128	14'-8"	-	S	P505 2'-5" ±	P1001	240	6'-6"	6,713	B	
R502	32	12'-2"	-	S	A501 2'-1" ±	P1002	176	20'-11"	15,841	S	
R503	32	14'-6"	-	S	A503 5'-2" ±	P1003	64	20'-7"	5,668	S	
PIERS					REPLACEMENT BARS						
P1001	240	6'-6"	6,713	B	A505 7 1/2" ±	RE1001	2	7'-2"	-	S	
P1002	176	20'-11"	15,841	S	A506 2'-1" ±	RE801	1	6'-6"	-	S	
P1003	64	20'-7"	5,668	S	A526 4'-0" ±	RE701	3	6'-2"	-	S	
P1004	28	28'-5"	3,424	B	A524 2'-2" ±	RE601	5	5'-11"	-	S	
P801	24	29'-6"	1,890	S	A401 3'-4" ±	RE501	2	5'-7"	-	S	
P802	24	17'-10"	1,143	S	A402 2'-3" ±	RE401	1	8'-2"	-	B	
P803	16	8'-7"	367	B	SPIRAL REINFORCING LIST						
P804	28	23'-4"	1,744	B	Mark	No.	Core Dia. % Spiral	Length	Pitch	No. of Turns	Weight
P805	8	18'-0"	384	S	SP401	24	32"	17'-8"	4 1/2"	50	7766
P806	12	19'-0"	609	S	REPLACEMENT BARS						
P601	68	10'-0"	1,021	B	RE1001	2	7'-2"	-	-	-	-
P602	20	11'-4"	340	B	RE801	1	6'-6"	-	-	-	-
P603	20	12'-11"	388	S	RE701	3	6'-2"	-	-	-	-
P501	464	7'-10"	3,791	B	RE601	5	5'-11"	-	-	-	-
P502	192	8'-10"	1,769	B	RE501	2	5'-7"	-	-	-	-
P503	16	22'-7"	377	S	RE401	1	8'-2"	-	-	-	-
P504	8	6'-9"	56	B	RESP401	1	5'-3"	-	-	-	-
P505	208	7'-3"	1,573	B	REPLACEMENT BARS						
P506	8	18'-0"	150	S	RE1001	2	7'-2"	-	-	-	-

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example, P601 is a No. 6 size bar and P1001 is a No. 10 size.

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 4.02 need not be furnished and replacement bars will not be required.

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus 3 turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item 5-4. 1/2 closed coils shall be provided at the ends of each spiral unit. Four steel channel, tee or angle spacers, weighing approximately 0.68 lb. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.68 lb. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

**SUPERSTRUCTURE DETAILS
& REINFORCING STEEL LIST**

BRIDGE No. LAK-2-0255 L&R
OVER CAMPBELL ROAD

LAKE COUNTY Sta. 234+69.16
Sta. 236+17.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
FFE	FFE	JGW	N.J.B	9/8	11-28-58	