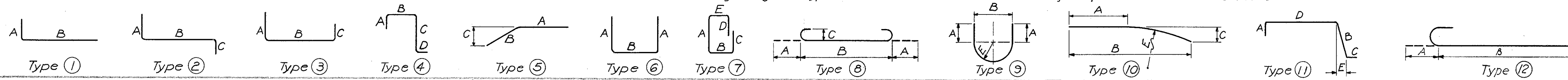


### REINFORCING STEEL BAR SCHEDULE

Bending diagram types - All dimensions are out to out, except radii which are to inside.



ABUTMENTS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
B601	110	6	9'-2"	1	5'-4"	4'-5"				1583
B602	116	6	13'-4"	7	5'-3"	1'-5"	3'-11"	2'-6"	11"	2323
B503	16	5	32'-10"	str.						548
B504	106	5	3'-0"	str.						332
B505	12	5	10'-8"	str.						134
B506	4	5	9'-6"	str.						40
B507	4	5	11'-11"	str.						50
B508	28	5	10'-7"	6	4'-10"	1'-2"				309
B509	64	5	7'-4"	6	2'-2"	3'-2"				489
B510	8	5	5'-9"	1	1'-0"	4'-10"				48
B511	122	5	2'-6"	str.						318
B512	56	5	31'-10"	str.						1859
B513	96	5	3'-3"	6	8"	2'-2"				325
B514	6	5	9'-4"	str.						58
B515	18	5	8'-10"	str.						166
B516	8	5	7'-11"	str.						66
B517	24	5	12'-7"	str.						315
B518	8	5	5'-9"	5	4'-3"	1'-6"	9'			48
B519	24	5	3'-10"	str.						96
B520	16	5	4'-11"	str.						82
B521	56	5	6'-9"	str.						394
B522	40	5	3'-6"	str.						146
B523	4	5	11'-6"	str.						48
B524	4	5	13'-0"	10	1'-0"	12'-11"	1'-2"		71'-10"	54
B525	4	5	12'-3"	10	6"	12'-2"	1'-2"		71'-10"	51
B526	10	5	2'-4"	1	8"	1'-10"				24
B527	12	5	2'-3"	1	8"	1'-9"				28
B528	12	5	2'-1"	1	8"	1'-7"				26
B529	8	5	1'-10"	1	8"	1'-4"				15
B530	8	5	1'-6"	1	8"	1'-0"				13
B531	4	5	1'-2"	1	8"	8"				5
B532	10	5	3'-7"	11	8"	1'-4"	0"	1'-10"	3"	37
B533	12	5	3'-6"	11	8"	1'-4"	0"	1'-9"	3"	44
B534	12	5	3'-4"	11	8"	1'-4"	0"	1'-7"	3"	42
B535	8	5	3'-1"	11	8"	1'-4"	0"	1'-4"	3"	26
B536	8	5	2'-9"	11	8"	1'-4"	0"	1'-0"	3"	23
B537	4	5	2'-5"	11	8"	1'-4"	0"	8"	3"	10
B538	4	5	2'-9"	6	1'-0"	1'-0"				11
B439	48	4	3'-1"	1	6"	2'-8"				99
B440	48	4	4'-2"	4	1'-3"	8"	2'-4"	6"		134
RB441	16	4	11'-4"	str.						Included with railing for payment
Total Weight										10,419

SUPERSTRUCTURE										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
S701	178	7	30'-10"	str.						11,218
S702	158	7	27'-2"	str.						8,774
S703	20	7	24'-10" to 12'-7"	str.			2 each vary by 1'-4 3/8"			765
S704	50	7	39'-8" to 6'-11"	str.			2 each vary by 1'-4 3/8"			2,380
S705	8	7	6'-11"	str.						113
S606	178	6	30'-8"	str.						8,199
S607	158	6	27'-0"	str.						6,408
S608	20	6	24'-8" to 12'-5"	str.			2 each vary by 1'-4 3/8"±			557
S609	50	6	39'-8" to 6'-11"	str.			2 each vary by 1'-4 3/8"			1,749
S610	8	6	6'-11"	str.						83
S611	360	6	34'-3"	str.						18,520
S612	74	6	20'-0"	str.						2,223
S513	264	5	3'-10"	11	6"	1'-3"	8"	1'-10"	32"	1,056
S414	264	4	3'-3"	1	6"	2'-10"				573
S415	56	4	14'-10"	str.						Included with railing for payment
RS418	16	4	12'-2"	str.						
RS419	264	4	4'-2"	4	1'-3"	8"	2'-4"	6"		
Total Weight										62,618 lbs.

PIERS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
Q1101	4	11	34'-9"	1	3'-3"	31'-0"				730
Q1102	8	11	34'-6"	1	3'-3"	31'-7"				1,466
Q1103	8	11	33'-5"	1	3'-3"	30'-6"				1,420
Q1104	4	11	35'-2"	str.						747
Q1105	48 (Pier No.1)	11	24'-10"	str.						6,333
Q1106	48 (Pier No.2)	11	26'-11"	str.						6,864
Q1107	96	11	7'-5"	1	1'-6"	6'-3"				3,783
Q908	36	9	23'-11"	12	1'-3"	22'-8"				2,927
Q909	18	9	19'-2"	str.						1,173
Q710	176	7	9'-4"	8	10"	7'-8"	7"			3,358
Q511	16	5	8'-1"	9	2'-3"	2'-4"			1'-1/2"	135
Q512	4	5	3'-5"	6	1'-0"	1'-9"				14
Q513	4	5	3'-10"	6	1'-0"	2'-2"				16
Q514	88	5	4'-4"	6	1'-0"	2'-8"				398
Q515	132	5	7'-2"	6	2'-5"	2'-8"				987
Q516	8	5	29'-7"	str.						247
Total Weight										33,968

SPIRAL BARS							
MARK	TOTAL	SIZE	LENGTH	PITCH	NO. OF TURNS	CORE DIA.	WEIGHT
SP403	4	3/8"	21'-7"	4 1/2"	61	32"	1,602
SP404	4	3/8"	23'-8"	4 1/2"	67	32"	1,759
Total Weight							3,361

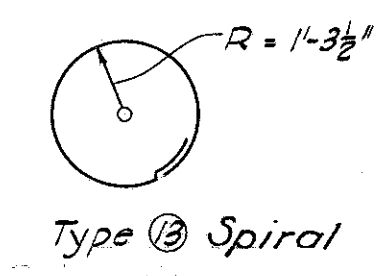
### SPIRAL NOTES

The "length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown in the steel list for the spiral bars 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 S-4. 1/2" closed coils shall be provided at ends of each spiral unit. Four steel channel, tee or angle spacers, weighing approximately 0.68 lbs. 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 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

### BAR SIZE

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, A401 is a No. 4 size bar and A114 is a No. 11 size bar.

REPLACEMENT BARS					
MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT
RE1101	2	11	7'-6"	str.	80
RE902	1	9	6'-10"	str.	23
RE703	2	7	6'-3"	str.	26
RE604	3	6	5'-4"	str.	27
RE505	1	5	5'-7"	str.	6
RE406	1	4	5'-3"	str.	4
RE407	1	3/8"	5'-3"	13	4



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

ESTIMATED QUANTITIES							
ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIERS	GENERAL
E-2	Lump	Sum	Cofferdams, Cribs, & Sheeting				Lump Sum
E-2	557	Cu. Yds.	Unclassified Excavation		230	376	
S-1	221	Cu. Yds.	Class "C" Concrete, Superstructure	221			
S-1	98	Cu. Yds.	Class "C" Concrete, Pier Caps & Columns			98	
S-1	97	Cu. Yds.	Class "E" Concrete, Abutments above Footings		97		
S-1	152	Cu. Yds.	Class "E" Concrete, Footings		95	57	
S-4	107,005	Lbs.	Reinforcing Steel	62,618	10,419	33,968	
S-7	169,600	Lbs.	Structural Steel	169,600			
S-8	169,600	Lbs.	Field Painting of Structural Steel	169,600			
S-14	310	Lin. Ft.	Railing (Aluminum Rail & Supports, Concrete Parapet)		263	47	
S-16	Lump	Sum	First Test Pile				Lump Sum
S-18	900	Lin. Ft.	Steel Piles 12BP53			900	
S-29	36	Cu. Yds.	Porous Backfill		36		
I-10	645	Sq. Yds.	Crushed Aggregate Slope Protection				645
I-27	1	Ea.	Bridge Delineator				1

\*FIRST TEST PILE: Payment will be made for only one first test pile, Item S-16. It may be driven at either Bridge No. LAK-1-0499 (Southbound) or LAK-1-0499 (Northbound).

MICHAEL BAKER JR., CONSULTING ENGINEERS  
ROCHESTER, PENNSYLVANIA

### REINFORCING STEEL LIST & ESTIMATED QUANTITIES

SOUTH BOUND BRIDGE  
BRIDGE NO. LAK-1- 0499  
OVER RIVERSIDE DRIVE  
S.B. STA. 271 + 21.44  
TO STA. 272 + 56.44

LAKE COUNTY

Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
Y.G.	L.E.	L.E.	J.V.W.	M.R.B.	
R.W.J.		W.B.M.		4-25-58	