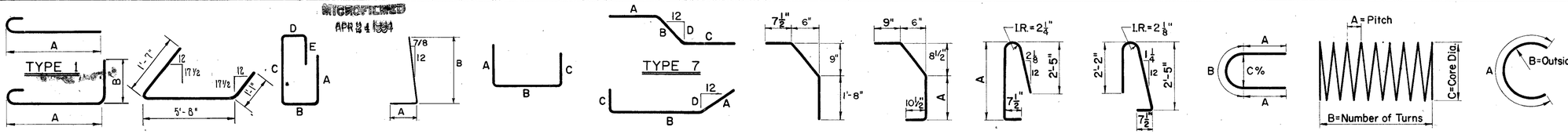
MICROFILMED APR 24 1984



FHWA REGION	STATE	PROJECT	
5	OHIO		

82/101

LAKE COUNTY
LAK-306-6.16

LEGEND

R.Rt. = Rear Right
R.Lt. = Rear Left
C.Rt. = Center Right
C.Lt. = Center Left
F.Rt. = Forward Right
F.Lt. = Forward Left
Rt.Br. = Right Bridge
Lt.Br. = Left Bridge
Fwd. = Forward

CONRAIL ABUTMENTS

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	R.Rt.	R.Lt.	F.Rt.	F.Lt.
CA 901	166	15' 9"	6889	1	14' 6"								
CA 902	262	7' 7"	6793	6	1' 3"	6' 7"							
CA 903	66	15' 7"	3497	STR.									
CA 904	130	9' 0"	3978	STR.									
CA 905	66	14' 10"	3329	STR.									
CA 801	16	26' - 0"	1111	STR.									
CA 701	198	10' 0"	4047	STR.									
CA 601	60	25' 5"	2291	STR.									
CA 602	33	15' 4"	760	STR.									
CA 603	58	8' 9"	762	6	2' 3"	4' 7"	2' 3"						
CA 604	33	14' 7"	723	STR.									
CA 501	108	25' 3"	2844	STR.									
CA 502	44	10' 4"	474	STR.									
CA 503	58	7'-7"	459	6	3' 4"	1' 2"	3' 4"						
CA 504	2	8' 10"	18	STR.									
CA 505	2	7' 9"	16	STR.									
CA 506	2	5' 5"	11	STR.									
CA 507	2	6' 3"	13	STR.									
CA 508	2	7' 6"	16	STR.									
CA 509	2	8' 4"	17	STR.									
CA 510	2	5' 1"	11	STR.									
CA 511	2	5' 11"	12	STR.									
CA 512	23	7' 11"	190	6	3' 6"	1' 2"	3' 6"						
CA 513	23	8' 1"	194	6	3' 7"	1' 2"	3' 7"						
CA 514	6	13' 11"	87	6	6' 6"	1' 2"	6' 6"						
CA 515	6	14' 1"	88	6	6' 7"	1' 2"	6' 7"						
CA 516	44	4' 4"	199	STR.									
CA 517	36	9' 11"	372	6	1' 2"	4' 8"	4' 4"						
CA 518	36	8' - 2"	307	3									
CA 519	8	5' 3"	44	7	3' 9"	1' 7"		44					
		TOTAL	41,514										

NORTHEAST WINGWALL

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	R.Rt.	R.Lt.	F.Rt.	F.Lt.
D 901	50	6' 3"	1148	5	1' 3"	5' 9"							
D 902	6	8' 11"	182	STR.									
D 903	1 SERIES	OF 5-9' 1" TO 9'7" ✱	159	STR.		✱ 1½" INCREMENTS							
D 904	1 SERIES	OF 4-11'0" TO 11'9" ✱	155	STR.		✱ 3" INCREMENTS							
D 905	1 SERIES	OF 13-11'10" TO 14'0" ✱	571	STR.		✱ 2⅛" INCREMENTS							
D 906	1 SERIES	OF 12-14'2" TO 16'9" ✱	631	STR.		✱ 2⅞" INCREMENTS							
D 907	1 SERIES	OF 10-17'0" TO 19'7" ✱	621	STR.		✱ 3½" INCREMENTS							
D 601	43	7' 6"	484	STR.									
D 602	43	7' 3"	468	STR.									
D 603	11	5' 2"	85	STR.									
D 604	11	5' 0"	83	STR.									
D 501	10	17' 10"	186	STR.									
D 502	12	18' 6"	232	STR.									
D 503	16	9' - 0"	160	STR.									
D 504	4	6' 0"	25	7	1' 7"	2' 10"	1' 7"	6					
D 505	28	24' 8"	720	STR.									
D 506	2	26' 9"	56	STR.									
D 507	2	20' 3"	42	STR.									
D 508	2	14' 6"	30	STR.									
D 509	2	9' 9"	20	STR.									
D 510	2	5' 9"	12	STR.									
D 511	2	1' 10"	4	STR.									
D 512	4	24' 10"	104	STR.									
D 514	6	9' 2"	57	STR.									
D 515	1 SERIES	OF 5-9'4" TO 9'10" ✱	50	STR.		✱ 1½" INCREMENTS							
D 516	1 SERIES	OF 4-10'9" TO 11'6" ✱	46	STR.		✱ 3" INCREMENTS							
D 517	1 SERIES	OF 6-11'9" TO 13'7" ✱	79	STR.		✱ 4⅜ INCREMENTS							

NORTHEAST WINGWALL (CONT'D)

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E
D 518	1 SERIES	OF 6-13'11" TO 16'4" ✱	96	STR.		✱ 5¾" INCREMENTS			
D 519	1 SERIES	OF 5-16'9" TO 19'0" ✱	93	STR.		✱ 6¾" INCREMENTS			
		TOTAL	6889						

NORTHWEST WINGWALL

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E
E 1001	33	7' 9"	1100	5	1' 5"	6' 8"			
E 1002	1 SERIES	OF 11-6'9" TO 13'5" ✱	477	STR.		✱ 8" INCREMENTS			
E 1003	1 SERIES	OF 19-13'9" TO 19'11" ✱	1376	STR.		✱ 4⅛" INCREMENTS			
E 1004	3	20' 2"	260	STR.					
E 401	43	7'-6"	484	STR.					
E 402	43	7'-3"	468	STR.					
E 501	20	17' 9"	370	STR.					
E 502	20	16' 8"	348	STR.					
E 503	2 SERIES	OF 9-1'11" TO 28'9" ✱	288	STR.		✱ 3'-4⅜" INCREMENTS			
E 504	4	17' 2"	72	STR.					
E 507	1 SERIES	OF 20-6'6" TO 19' 3" ✱	269	STR.		✱ 8" INCREMENTS			
E 508	3	19' 11"	62	STR.					
		TOTAL	5574						

SERVICE ROAD ABUTMENTS

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E
A 901	47	10' 0"	1598	STR.					
A 902	47	7' 6"	1199	6	1' 3"	6' 6"	—		
A 801	49	11' 5"	1494	2	4'-5"	6' 3"			
A 802	49	15'- 4"	2006	STR.					
A 701	32	8'-0"	523	STR.					
A 702	40	7'-6"	613	STR.					
A 601	38	15'-1"	811	STR.					
A 602	58	9'-3"	806	6	4'-1"	1'-5"	4'-1"		
A 603	38	7'-8"	438	6	2'-4"	3'-4"	2'-4"		
A 604	38	6'-5"	366	7	4'-0"	2'-6"	—	12	
A 501	45	17' 2"	806	STR.					
A 502	8	3' 5"	29	STR.					
A 503	4	7' 4"	31	STR.					
A 504	17	1' 5"	25	STR.					
A 505	8	3' 0"	25	9					
A 506	1	3' 0"	3	6	10"	2'-4"	—		
A 507	1	3' 10"	4	6	1'-8"	2'-4"	—		
A 508	1	4' 11"	5	6	2'-9"	2'-4"	—		
A 509	1	5' 9"	6	6	3'-7"	2'-4"	—		
A 510	1	2' 5"	3	STR.					
A 511	1	4' 4"	5	STR.					
A 512	1	3' 6"	4	STR.					
A 513	1	1' 7"	2	STR.					
A 514	4	1' 8"	7	STR.					
A 515	1	5' 8"	6	6	3' 6"	2'- 4"	—		
A 516	1	6' 6"	7	6	4' 4"	2' 4"	—		
A 517	1	5' 4"	6	6	3' 2"	2' 4"	—		
A 518	1	4' 6"	5	6	2' 4"	2' 4"	—		
A 519	1	3' 1"	3	STR.					
A 520	1	3' 11"	4	STR.					
A 521	1	4' 3"	4	STR.					
A 522	1	5' 1"	5	STR.					
A 523	45	19' 5"	911	STR.					
		TOTAL	11,810						

SERVICE ROAD SUPERSTRUCTURE

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	Rt.Br.	Lt.Br.
S 601	250	11' 8"	4381	STR.							
S 602	4 SERIES	OF 8-5'0" TO 11'0" ✱	386	STR.		✱ 10¼" INCREMENTS					
S 603	20	4' 3"	128	STR.							
S 501	52	30' 0"	1627	STR.							
S 502	26	24' 1"	653	STR.							
S 503	108	3' 1"	347	10	10"						
S 504	108	1' 11"	216	6	7½"	1' 5"					
S 505	108	1' 10"	206	6	7½"	10"	7½"				
S 506	120	5' 3"	637	12							
S 507	48	13' 0"	651	STR.							
S 401	32	30' 0"	641	STR.							
S 402	16	23' 5"	250	STR.							
		TOTAL	10,142								

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 "Number of Turns" shown is the "Length" divided by the "Pitch", plus three turns (total number of closed coils), expressed as the nearest whole number with 1½ closed coils provided at the ends of each spiral unit. Four steel channel, tee or angle spacers weighing approximately 0.80 pounds per lineal foot of spacers 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 0.80 pounds per lineal foot, will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

REINFORCING STEEL SAMPLES: Refer to CMS Sections 106.03, 700, 709.01 through 709.05 and 709.08. Sufficient additional reinforcing steel shall be provided for sampling. Random samples shall be replaced in the structures by the additional steel, spliced in accordance with 509.08.

22/28

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

BRIDGES NO. LAK-306-0637 & 0638
OVER S. R. 306

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	SM		S.M.	JF	10/22/79	