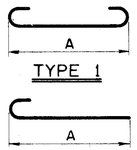

TYPE 1 TYPE 2

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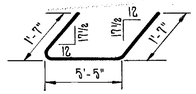
APR 24 1984



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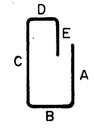

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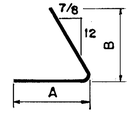

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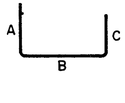

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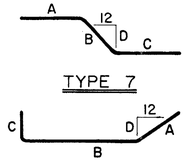
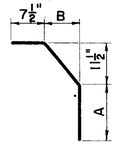


TYPE 7 TYPE 8



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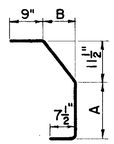

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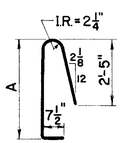

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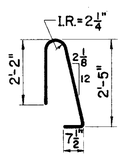

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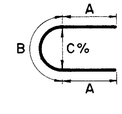

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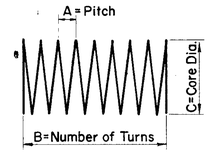

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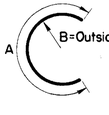

TYPE 15

FHWA REGION	STATE	PROJECT	
5	OHIO		

71
101

LAKE COUNTY
LAK 306-6.15

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

N&W ABUTMENTS

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	REAR	FWD
NA 901	120	14' 9"	6018	1	12' 3"					60	60
NA 902	198	7' 7"	5106	6	1' 3"	6' 7"				99	99
NA 903	50	16' 1"	2734	STR.						50	-
NA 904	98	9' 0"	2999	STR.						49	49
NA 905	50	16' 8"	2833	STR.						-	50
NA 801	16	20' 0"	854	STR.						8	8
NA 701	150	7' 0"	2146	STR.						75	75
NA 601	56	19' 7"	1647	STR.						28	28
NA 602	25	15' 5"	579	STR.						25	-
NA 603	50	8' 10"	663	6	2' 3"	4' 8"	2' 3"			25	25
NA 604	25	16' 0"	601	STR.						-	25
NA 501	108	19' 4"	2178	STR.						52	56
NA 502	44	8' 4"	382	STR.						22	22
NA 503	40	8' 1"	337	6	3' 7"	1' 2"	3' 7"			20	20
NA 504	1	12' 0"	13	STR.						1	-
NA 505	1	12' 9"	13	STR.						1	-
NA 506	1	7' 11"	8	STR.						1	-
NA 507	1	7' 2"	7	STR.						1	-
NA 508	1	7' 7"	8	STR.						1	-
NA 509	1	6' 10"	7	STR.						1	-
NA 510	1	11' 8"	12	STR.						1	-
NA 511	1	12' 5"	13	STR.						1	-
NA 512	24	5' 1"	127	6	2' 1"	1' 2"	2' 1"			12	12
NA 513	16	10' 1"	168	6	4' 7"	1' 2"	4' 7"			8	8
NA 514	44	4' 4"	199	STR.						22	22
NA 516	32	10' 11"	364	6	1' 8"	4' 8"	4' 10"			16	16
NA 516	32	8' 5"	281	3						16	16
NA 517	8	4' 11"	41	7	3' 4"	1' 7"	——		36	4	4
NA 518	2	9' 3"	19	STR.						-	2
NA 519	2	9' 7"	20	STR.						-	2
NA 520	2	10' 0"	21	STR.						-	2
NA 521	2	10' 4"	22	STR.						-	2
		TOTAL	30,419								

SOUTHWEST WING WALL

B 901	32	6' 9"	734	5	1' 3"	5' 9"
B 902	1 SERIES	OF 9 - 8' 9" TO 11' 4" *	307	STR.		* 3⅜" INCREMENTS
B 903	1 SERIES	OF 13 - 11' 6" TO 14' 4" *	571	STR.		* 2⅞" INCREMENTS
B 904	1 SERIES	OF 10 - 14' 7" TO 17' 2" *	540	STR.		* 3½" INCREMENTS
B 601	40	7' 0"	421	STR.		
B 602	40	7' 0"	421	STR.		
B 501	16	16' 6"	275	STR.		
B 502	24	17' 2"	430	STR.		
B 503	2	24' 6"	51	STR.		
B 504	2	17' 9"	37	STR.		
B 505	2	12' 6"	26	STR.		
B 506	2	8' 0"	17	STR.		
B 507	2	4' 3"	9	STR.		
B 508	4	17' 10"	74	STR.		
B 509	2	8' 1"	17	STR.		
B 510	2	8' 5"	18	STR.		
B 511	1 SERIES	OF 9 - 8' 6" TO 11' 1" *	92	STR.		* 3⅞" INCREMENTS
B 512	1 SERIES	OF 6 - 11' 6" TO 14' 0" *	80	STR.		* 6" INCREMENTS
B 513	1 SERIES	OF 5 - 14' 4" TO 16' 7" *	81	STR.		* 6¾" INCREMENTS
		TOTAL	4,201			

SOUTHEAST WING WALL

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E
C 1001	32	7' 9"	1067	5	1' 5"	6' 8"			
C 1002	7	19' 10"	597	STR.					
C 1003	1 SERIES	OF 9 - 19' 8" TO 17' 5" *	718	STR.		* 3⅜" INCREMENTS			
C 1004	1 SERIES	OF 8 - 17' 1" TO 14' 3" *	539	STR.		* 4⅞" INCREMENTS			
C 1005	1 SERIES	OF 8 - 13' 7" TO 7' 0" *	354	STR.		* 11¼" INCREMENTS			
C 601	39	7' 0"	410	STR.					
C 602	39	7' 6"	439	STR.					
C 501	18	15' 11"	299	STR.					
C 502	16	16' 8"	278	STR.					
C 503	2 SERIES	OF 7 - 30' 0" TO 15' 6" *	332	STR.		* 2¼5" INCREMENTS			
C 504	2	12' 6"	26	STR.					
C 505	2	9' 0"	19	STR.					
C 506	4	5' 0"	21	STR.					
C 507	4	16' 3"	68	STR.					
C 509	2	5' 11"	12	STR.					
C 510	1 SERIES	OF 12 - 6' 9" TO 16' 10" *	148	STR.		* 11⅛" INCREMENTS			
C 511	1 SERIES	OF 4 - 17' 9" TO 19' 3" *	77	STR.		* 6" INCREMENTS			
C 512	4	19' 7"	82	STR.					
		TOTAL	5,486						

EAST & WEST RETAINING WALL

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	EAST	WEST
W 1001	5	12' 0"	258	STR.						0	5
W 1002	5	16' 2"	348	5	6'-3"	10'-2"				0	5
W 901	24	9' 6"	776	5	1' 3"	8' 6"				24	0
W 902	1	5' 1"	17	5	1' 3"	4' 1"				1	0
W 903	8	9' 6"	258	5	1' 3"	8'-6"				8	0
W 904	2 SERIES	OF 4 - 12' 1" TO 13' 7" *	349	STR.		* 6" INCREMENTS				8	0
W 905	2	14' 0"	95	STR.						2	0
W 906	34	12' 0"	1387	STR.						22	12
W 907	1 SERIES	OF 6 - 9' 0" TO 11' 6" *	209	STR.		* 6" INCREMENTS				0	6
W 908	12	15' 3"	541	5	5' 0"	8' 6"				0	12
W 909	1	6' 3"	21	STR.						0	1
W 910	1	11' 2"	38	6	4' 9"	2' 2"	4' 9"			0	1
W 911	12	9' 9"	398	STR.						0	12
W 912	6	14' 3"	291	5	6' 0"	8' 6"				0	6
W 801	22	8' 2"	480	5	1' 1"	7' 3"				22	0
W 802	22	17' 10"	1048	STR.						22	0
W 701	74	6' 0"	908	STR.						74	0
W 702	109	6' 11"	1541	5	1' 0"	6' 1"				39	70
W 703	91	7' 9"	1442	STR.						39	52
W 704	11	8' 11"	200	STR.						11	0
W 705	36	9' 6"	699	STR.						24	12
W 706	91	10' 0"	1860	STR.						39	52
W 707	52	10' 11"	1160	5	5' 0"	6' 1"				0	52
W 710	1 SERIES	OF 6 - 18' 0" TO 20' 6" *	236	STR.		* 6" INCREMENTS				0	6
W 711	1	17' 11"	37	STR.						0	1
W 712	3	20' 8"	127	STR.						0	3
W 601	51	6' 0"	460	5	10"	5' 4"				51	0
W 602	106	17' 10"	2839	STR.						43	63
W 603	2 SERIES	OF 4 - 18' 1" TO 19' 7" *	226	STR.		* 6" INCREMENTS				8	0
W 501	10	33' 0"	344	STR.						10	0
W 502	6	11' 6"	72	STR.						4	2
W 503	30	30' 0"	939	STR.						10	20
W 504	20	8' 3"	172	7	1' 7"	4' 6"	2' 3"	6		20	0
W 505	2	6' 2"	13	7	1' 8"	4' 6"	—	6		2	0
W 506	2	6' 3"	13	STR.						2	0
W 507	2	4' 0"	8	STR.						2	0

EAST & WEST RETAINING WALL (CONT'D)

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	EAST	WEST
W 508	1	17' 5"	18	STR.						1	0
W 509	1	16' 5"	17	STR.						1	0
W 510	90	17' 7"	1451	STR.						46	44
W 511	2 SERIES	OF 3 - 17' 10" TO 19' 4" *	116	STR.		* 9" INCREMENTS				6	0
W 512	26	19' 8"	539	STR.						0	26
W 513	50	16' 8"	817	STR.						50	0
W 514	2	13' 7"	28	STR.						2	0
W 515	52	20' 1"	1089	STR.						52	0
W 516	8	8' 3"	69	STR.						4	4
W 517	4	4' 9"	20	STR.						4	0
W 518	4	9' 0"	38	STR.						4	0
W 519	4 SERIES	OF 7 - 1'8" TO 4' 3" *	86	STR.		* 5⅛" INCREMENTS				28	0
W 520	2	21' 10"	46	7	10' 3"	6' 8"	5' 1"	6		0	2
W 521	1	12' 1"	13	7	——	6' 6"	5' 8"	6		0	1
W 522	2	12' 1"	25	7	6"	6' 8"	5' 1"	6		0	2
W 523	2 SERIES	OF 6 - 2' 1" TO 4' 3" *	40	STR.		* 5⅛" INCREMENTS				0	12
W 524	4	13' 8"	57	7	4' 9"	3' 0"	——	5⅛		0	4
W 525	3	23' 7"	74	STR.						0	3
W 526	6	18' 8"	117	7	7' 1"	6' 8"	5' 1"	6		0	6
W 527	4	18' 6"	77	7	6' 6"	6' 6"	5' 8"	6		0	4
W 528	1 SERIES	OF 6 - 18' 7" TO 23' 2" *	131	STR.		* 11" INCREMENTS				0	6
W 529	1 SERIES	OF 6 - 2' 7" TO 4' 9" *	23	STR.		* 5⅛" INCREMENTS				0	6
W 530	1	17' 8"	18	STR.						0	1
W 531	50	21' 3"	1108	STR.						0	50
W 532	2	13' 0"	27	STR.						0	2
W 533	2	1' 9"	4	STR.						0	2
W 534	2	5' 9"	12	STR.						0	2
W 535	8	2' 4"	19	STR.						0	8
W 536	14	4' 7"	67	STR.						0	14
W 537	1	19' 6"	20	STR.						0	1
W 538	2	6' 6"	14	STR.						0	2
W 539	2	3' 3"	7	STR.						2	0
W 540	26	11' 8"	316	STR.						0	26
			26,506								

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 ½ 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 C.M.S. 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.

11 / 28

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

BRIDGE NO. LAK-306 0635
S.R. 306 UNDER N.& W. RAILROAD

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