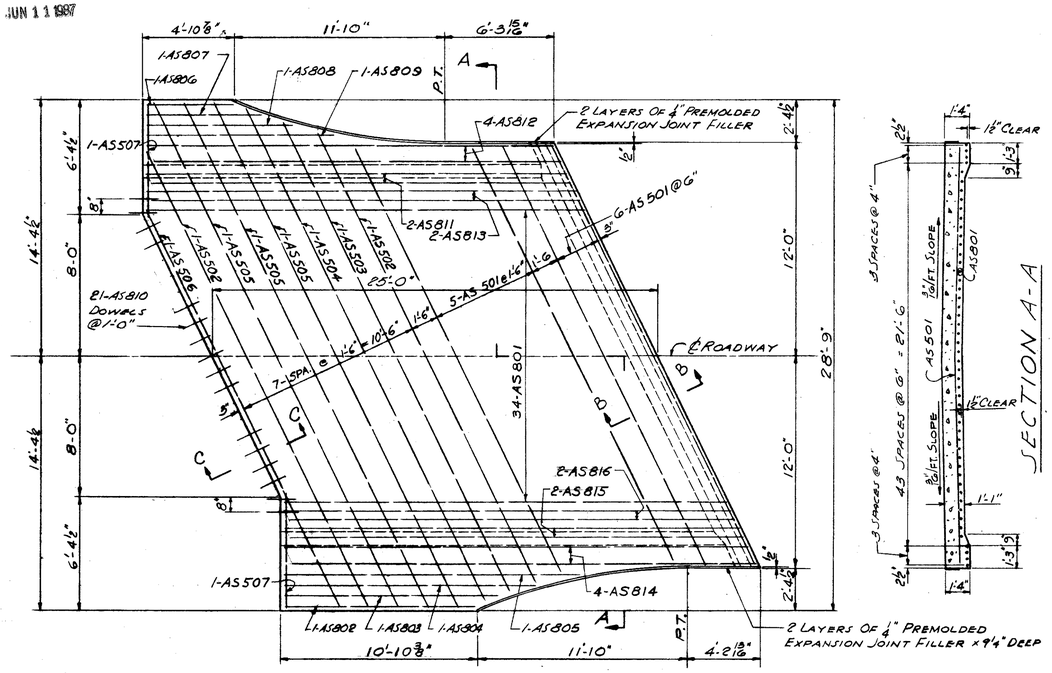
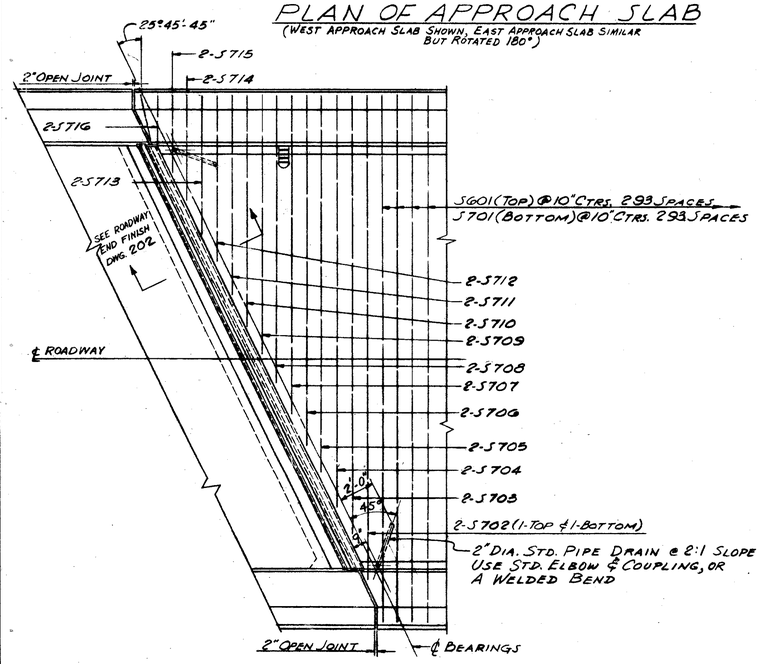
MICROFILMED
JUN 11 1987

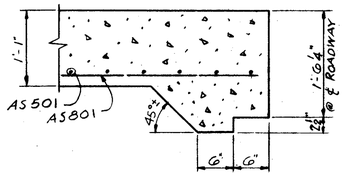


PLAN OF APPROACH SLAB

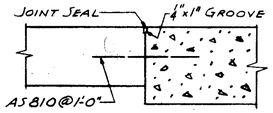
(WEST APPROACH SLAB SHOWN, EAST APPROACH SLAB SIMILAR BUT ROTATED 180°)



SLAB REINFORCING STEEL PLAN



SECTION B-B



SECTION C-C

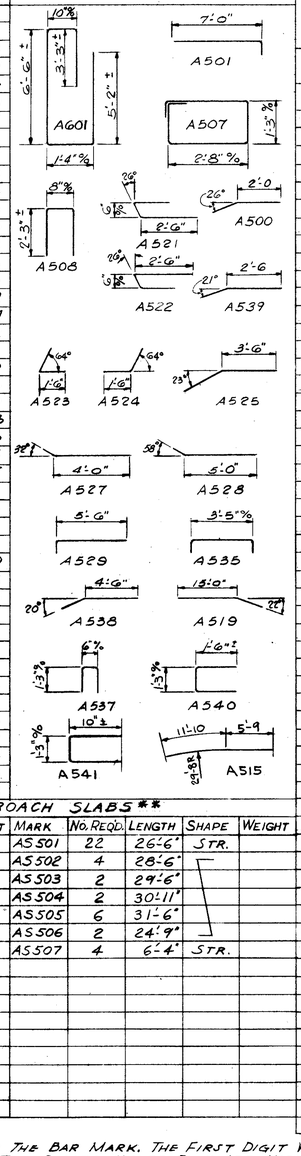
REINFORCING STEEL LIST

MARK	NO. REQ'D	LENGTH	SHAPE	WEIGHT
TWO ABUTMENTS				
AG01	54	16'-6"	BENT	1340
A500	4	3'-0"	BENT	13
A501	82	8'-0"	BENT	684
A502	74	5'-0"	STR.	386
A503	12	4'-8"		59
A504	8	4'-3"		36
A505	8	3'-10"		32
A506	48	3'-6"	STR.	175
A507	26	8'-10"	BENT	240
A508	72	5'-2"	BENT	388
A509	16	9'-0"	STR.	150
A510	4	12'-0"		50
A511	4	10'-6"		44
A512	4	15'-0"		63
A513	4	13'-6"		56
A514	8	20'-0"	STR.	167
A515	8	19'-0"	BENT	147
A516	8	18'-2"	STR.	152
A517	16	16'-8"	STR.	*
A518	8	15'-6"	STR.	130
A519	8	17'-6"	BENT	146
A520	12	12'-0"	STR.	150
A521	8	4'-0"	BENT	33
A522	8	4'-0"		33
A523	8	3'-0"		25
A524	8	3'-0"		25
A525	4	5'-0"	BENT	21
A526	46	3'-0"	STR.	144
A527	18	4'-6"	BENT	85
A528	18	5'-6"	BENT	104
A529	56	6'-0"	BENT	350
A530	64	3'-8"	STR.	245
A531	4	35'-0"		146
A532	12	32'-10"		411
A533	10	31'-4"		326
A534	16	7'-0"	STR.	117
A535	40	4'-5"	BENT	184
A536	16	11'-0"	STR.	184
A537	4	8'-9"	BENT	12
A538	4	6'-0"	BENT	25
A539	4	4'-6"	BENT	19
A540	56	4'-3"	BENT	248
A541	24	2'-11"	BENT	73
TOTAL FOR TWO ABUTMENTS				7,418

MARK	NO. REQ'D	LENGTH	SHAPE	WEIGHT
TWO APPROACH SLABS **				
AS801	68	24'-6"	STR.	
AS802	2	10'-10"		
AS803	2	12'-4"		
AS804	2	14'-3"		
AS805	2	16'-9"		
AS806	2	4'-10"		
AS807	2	6'-5"		
AS808	2	8'-5"		
AS809	2	11'-0"		
AS810	42	1'-6"		
AS811	4	23'-4"		
AS812	8	22'-7"		
AS813	4	23'-10"		
AS814	8	25'-10"		
AS815	4	25'-4"		
AS816	4	24'-10"	STR.	

MARK	NO. REQ'D	LENGTH	SHAPE	WEIGHT
AS501	22	26'-6"	STR.	
AS502	4	28'-6"		
AS503	2	29'-6"		
AS504	2	30'-11"		
AS505	6	31'-6"		
AS506	2	24'-9"		
AS507	4	6'-4"	STR.	

BENDING DIAGRAM



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

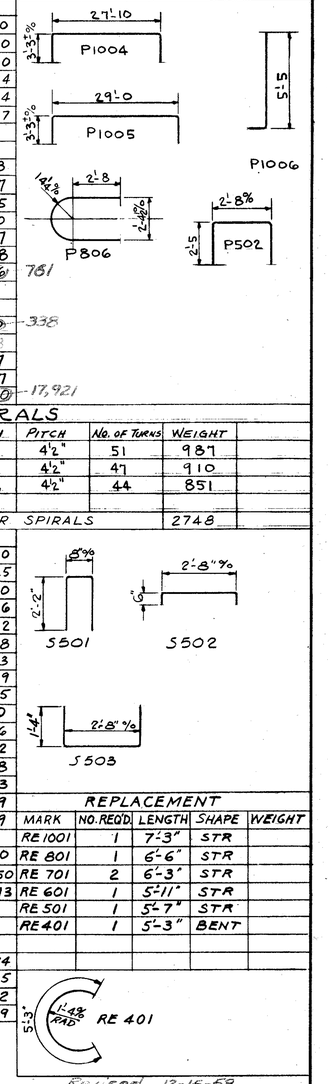
203
228

LAKE COUNTY
LAK-44-1.70

REINFORCING STEEL LIST

MARK	NO. REQ'D	LENGTH	SHAPE	WEIGHT
THREE PIERS				
P1001	30	21'-1	STR.	2720
P1002	30	19'-8	STR.	2540
P1003	30	18'-7	STR.	2400
P1004	6	33'-10	BENT	874
P1005	6	35'-0	BENT	904
P1006	90	6'-7	BENT	2547
P801	9	17'-0	STR.	408
P802	6	29'-2	STR.	467
P803	6	29'-0	STR.	465
P804	6	28'-8	STR.	460
P805	6	26'-8	STR.	427
P806	12	9'-0	BENT	288
P807	30 (27)	8'-0 (9'-4")	STR.	(576) 781
	30 (23)	7'-10" (6'-6)	STR.	(200) 338
P602	108	8'-0"	STR.	1298
P501	6	26'-8	STR.	167
P502	84	7'-6	BENT	657
TOTAL FOR THREE PIERS				(17,100) 17,921

BENDING DIAGRAM



SPIRALS

MARK	NO. REQ'D.	CORE DIA. O/O SPIRAL	LENGTH	PITCH	NO. OF TURNS	WEIGHT
SP401	3	32"	17'-10 10/16	4½"	51	987
SP402	3	32"	16'-5 3/8	4½"	47	910
SP403	3	32"	15'-4 3/16	4½"	44	851
TOTAL FOR SPIRALS						2748

SUPERSTRUCTURE

S701	294	30'-0"	STR.	18,030
S702	4	27'-6"		225
S703	4	25'-9"		210
S704	4	24'-0"		196
S705	4	22'-3"		182
S706	4	20'-6"		168
S707	4	18'-9"		153
S708	4	17'-0"		139
S709	4	15'-3"		125
S710	4	13'-6"		110
S711	4	11'-9"		96
S712	4	10'-0"		82
S713	4	8'-3"		68
S714	4	6'-6"		53
S715	4	4'-9"		39
S716	8	3'-0"		49
S601	294	30'-0"		13,250
S602	478	30'-6"		21,850
S603	66	31'-0"		3073
S604	120	15'-3"		*
S605	16	12'-4"	STR.	*
S501	344	5'-0"	BENT	1794
S502	344	3'-8"	BENT	1315
S503	344	5'-4"	BENT	1912
TOTAL FOR SUPERSTRUCTURE				63,119

REPLACEMENT

MARK	NO. REQ'D.	LENGTH	SHAPE	WEIGHT
RE 1001	1	7'-3"	STR	
RE 801	1	6'-6"	STR	
RE 701	2	6'-3"	STR	
RE 601	1	5'-11"	STR	
RE 501	1	5'-7"	STR	
RE401	1	5'-3"	BENT	

REVISED 12-15-58

NOTES:

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, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, AG01 IS A NO. 6 SIZE BAR AND P1004 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. S-4.02 NEED NOT BE FURNISHED AND REPLACEMENT BARS WILL NOT BE REQUIRED.

SPIRAL REINFORCING BARS: 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 IS THE "LENGTH" DIVIDED BY THE PITCH, PLUS 3 TURNS (TOTAL NO. 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. 1½ 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 NO. 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.

* REINFORCING BARS FOR RAILING PARAPETS SHALL BE INCLUDED WITH ITEM S-14 FOR PAYMENT.

** INCLUDED WITH ITEM I-7 FOR PAYMENT.

TRYGVE HOFF & ASSOCIATES
ENGINEERS
1922 EAST 107TH STREET CLEVELAND, OHIO

APPROACH SLAB, SLAB PLAN & REINFORCING STEEL LIST
BRIDGE NO. LAK-44-0304
SR. 44 UNDER PROUTY ROAD
LAKE COUNTY SR. 44
STA. 160+83.52

SCALE	DATE					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
CLS	CAT		GLP	A.J.	4-29-58	