

MICROFILMED
SEP 17 1985

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

318
394

LAK-2-0.00

REINFORCING STEEL LIST

Mark	No.	Length	Weight	Shp.	Bending Diagrams	Mark	No.	Length	Weight	Shp.	Bending Diagrams	Mark	No.	Length	Weight	Shp.	Mark	No.	Length	Weight	Shp.	SPIRAL BARS												
Superstructure																																		
S501	24	31'-3"	782	S		Abutments																												
S502	12	28'-4"	355	S		A401	224	5'-6"	823	B	Piers																							
S503	20	30'-2"	629	S		A501	448	6'-9"	3154	B	P401	24	8'-1"	130	B	Piers (Cont'd)																		
S504	648	1'-10"	1239	S		A502	8	35'-5"	296	S	P501	184	9'-0"	1727	B	P901	28	16'-0"	1523	B	SP401	2	32"	20'-1"	4 1/2"	56	726							
S505	648	7'-3"	4900	B		A503	8	34'-9"	290	S	P502	220	5'-6"	1262	B	P902	10	39'-6"	1343	S	SP402	1	32"	19'-3"	4 1/2"	54	349							
S506	356	4'-5"	1640	B		A504	8	29'-5"	245	S	P503	4	35'-6"	148	S	P903	20	6'-5"	437	B	SP403	2	32"	20'-6"	4 1/2"	57	739							
S601	150	28'-11"	6515	S	A505	8	28'-8"	239	S	P504	4	30'-3"	126	S	P904	10	26'-4"	895	S	SP404	1	32"	19'-8"	4 1/2"	55	356								
S602	75	25'-10"	2910	S	A506	48	6'-8"	334	S	P505	36	10'-3"	385	B	P905	10	25'-6"	867	S	SP405	3	32"	21'-0"	4 1/2"	59	1140								
S603	83	45'-4"	5651	S	A507	48	7'-9"	388	S	P601	136	6'-6"	1328	S	P1001	12	31'-8"	1635	S	SP406	3	32"	22'-2"	4 1/2"	62	1205								
S604	83	13'-3"	1652	B	A508	16	12'-0"	200	S	P701	256	8'-3"	4317	B	P1002	40	6'-10"	1176	B	SP407	3	32"	21'-5"	4 1/2"	60	1166								
S605	83	30'-0"	3740	S	A509	64	4'-11"	328	B	P702	14	41'-0"	1173	S	P1003	10	26'-0"	1119	S	SP408	1	32"	22'-6"	4 1/2"	63	408								
S606	83	39'-8"	4945	S	A510	8	11'-11"	99	B	P703	14	34'-6"	387	S	P1004	10	25'-2"	1083	S	SP409	4	32"	21'-9"	4 1/2"	61	1580								
ST01	141	46'-6"	13,401	S	A511	8	11'-7"	97	B	P704	14	28'-10"	825	S	P1005	10	26'-9"	1151	S	SP410	2	32"	22'-9"	4 1/2"	64	828								
ST02	141	11'-6"	3314	S	A512	8	11'-3"	94	B	P705	14	34'-0"	373	S	P1006	10	26'-0"	1119	S	<p>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 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 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.</p>														
ST03	141	30'-0"	8646	S	A513	56	4'-5"	258	B	P801	40	38'-1"	4067	S	P1101	176	7'-3"	6779	B															
ST04	141	40'-0"	11,528	S	A514	24	10'-0"	250	B	P802	8	7'-5"	158	B	P1102	18	24'-1"	2303	S															
S1101	369	50'-4"	98,678	S	A601	84	11'-8"	1472	B	P803	16	6'-11"	296	B	P1103	18	23'-3"	2223	S															
S1102	114	35'-11"	21,754	B	A602	48	7'-4"	529	B	P804	8	6'-3"	134	B	P1104	10	24'-7"	1306	S															
S1103	112	31'-1"	18,486	B	A603	16	11'-10"	284	S	P805	22	23'-3"	1395	S	P1105	10	23'-9"	1262	S															
S1104	57	32'-6"	3,842	S	A604	56	5'-6"	463	S	P806	22	22'-11"	1346	S	P1106	10	25'-0"	1328	S															
S1105	56	24'-2"	7,190	S	A701	32	7'-8"	502	S	P807	22	26'-0"	1527	S	P1107	10	24'-1"	1279	S															
S1106	300	34'-1"	54,325	S	A801	8	36'-0"	769	S	P808	22	25'-3"	1483	S	P1108	18	25'-5"	2431	S															
S1107	146	13'-4"	10,342	S	A802	8	30'-0"	641	S	P809	22	25'-1"	1473	S	P1109	18	24'-7"	2351	S															
S1108	150	18'-0"	14,345	S	A1001	8	35'-7"	1225	S	P810	22	38'-1"	2237	S	P1110	44	6'-9"	1578	B															
S1109	40	30'-3"	6,429	S	A1002	8	29'-6"	1016	S	P811	8	35'-10"	765	S	P1111	24	21'-3"	2710	S															
Railing Bars																																		
R501	112	17'-8"	*	S	<p>REPLACEMENT BARS: If the 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. 5-4.02 need not be furnished and replacement bars will not be required.</p>																													
R502	64	8'-10"	*	S																														
* Included with railing for payment.																																		

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Superstr.	Piers	Abuts.	Gen.
E-2	lump	sum	Cofferdams, cribs and sheeting				lump
E-2	1200	cu.yd.	Unclassified excavation, including shale		880	320	
S-1	1397	cu.yd.	Class "C" concrete, superstructure	1397			
S-1	176	cu.yd.	Class "C" concrete, pier caps and columns		176		
S-1	229	cu.yd.	Class "E" concrete, abutments			229	
S-1	210	cu.yd.	Class "E" concrete, pier footings		210		
S-4	418,557	lb.	Reinforcing steel	313,248	91,063	14,246	
S-9	290	sq.ft.	1/2" preformed expansion joint filler		28	262	
S-9	50	sq.ft.	1/2" gray sponge rubber preformed expansion joint filler			50	
S-14	652.12	lin.ft.	Railing (aluminum rail and supports and concrete parapet)	652.12			
S-16	lump	sum	First test pile				lump
S-18	1220	lin.ft.	Steel piles, 12BP53			1220	
S-29	17	each	Scuppers (Type "A")	17			
S-29	6	each	Scuppers (Type "B")	6			
S-29	53	cu.yd.	Porous backfill			53	

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						
REINFORCING STEEL LIST AND ESTIMATED QUANTITIES						
BRIDGE NO. LAK-2-0031 LER OVER LLOYD ROAD						
LAKE COUNTY						
STA. 116 + 28.00 117 + 72.50						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.L.	J.G.	V	C.P.D.	BFG	9-7-59	2-18-59