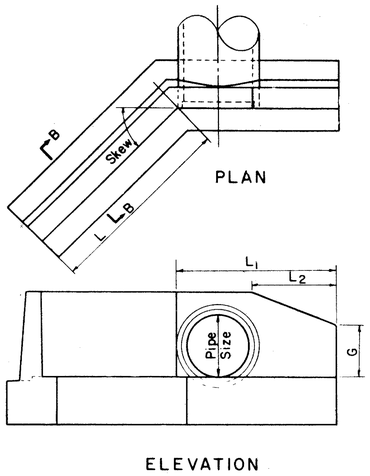
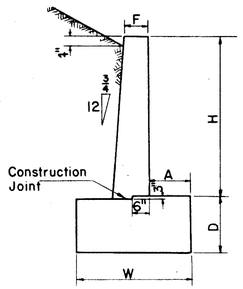
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	F-329 (16)	

225
268

LAKE COUNTY
LAK-2-7.39



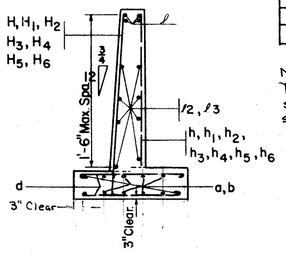


HEADWALL DIMENSIONS

STRUCTURE NO.	STATION*	PIPE SIZE	H	L	L_1	L_2	W	A			D	E	F	G
LAK-2-0740	295+15 Lt.	68"x43"	5'-3"	14'-7"	9'-10"	3'-2"	4'-6"	1'-5"			3'-0"		1'-6"	2'-9"
LAK-2-0740	295+15 Rt.	68"x43"	5'-3"	14'-7"	11'-7"	4'-11"	4'-6"	1'-5"			3'-0"		1'-6"	2'-9"
LAK-2-0825	335+70 Lt.	76"x48"	5'-3"	13'-10"	12'-7"	5'-2"	4'-6"	1'-5"			3'-0"		1'-6"	2'-11"
LAK-2-0825	335+70 Rt.	76"x48"	5'-3"	13'-10"	12'-3"	4'-10"	4'-6"	1'-5"			3'-0"		1'-6"	2'-10"
~~LAK-2-0982~~	~~386+48 Rt.~~	~~48"~~	~~6'-3"~~	~~10'-2"~~	~~11'-10"~~	~~7'-0"~~	~~4'-6"~~	~~1'-5"~~			~~3'-0"~~		~~1'-6"~~	~~3'-10"~~
~~LAK-2-0982~~	~~386+48 Lt.~~	~~48"~~	~~6'-3"~~	~~10'-2"~~	~~10'-8"~~	~~7'-0"~~	~~4'-6"~~	~~1'-5"~~			~~3'-0"~~		~~1'-6"~~	~~4'-3"~~
LAK-2-0966	410+00 Lt.	83"x53"	6'-0"	12'-0"	16'-2"	8'-1"	5'-0"	1'-9"			3'-0"		1'-6"	4'-4"

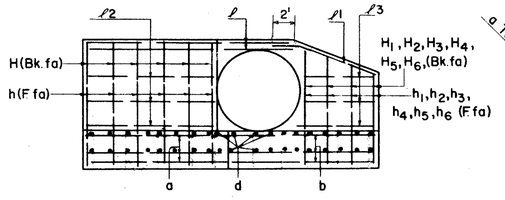
REINFORCING STEEL LIST & CONCRETE QUANTITIES

STRUCTURE NO.	STATION*	PIPE SIZE	SKEW	MARK a	NO.	MARK b	NO.		NO.	MARK d	NO.	MARK f	NO.	MARK f_1	NO.	MARK f_2	NO.	MARK f_3	NO.		NO.	MARK H	NO.	MARK H_1	NO.	MARK H_2	NO.	MARK H_3	NO.	MARK H_4	NO.	MARK h	NO.	MARK h_1	NO.	MARK h_2	NO.	MARK h_3	NO.	MARK h_4	NO.			S-4* REINFORCING STEEL LBS.	S-1* CLASS "C" CONCRETE CU. YDS	STRUCTURE DETAILS SHEET NO
LAK-2-0740	295+15 Lt.	68"x43"	47°30'	15-1	12	10-4	12			4-2	34	20-11	4	5-2	2	14-3	4	3-10	6			8-#5	8	8-#5	1	7-#3	1	6-1	1	5-11		5-1	8	5-1	1	3-10	1	2-7	1							796	18.7	214
LAK-2-0740	295+15 Rt.	68"x43"	47°30'	15-1	12	12-1	12			4-2	36	20-11	4	7-2	2	14-3	4	5-7	6			8-#5	8	8-#5	1	7-#7	1	6-#9	1	~~8-#~~	1	5-1	8	5-1	1	4-3	1	3-5	1	2-7	1			855	20.0	214
LAK-2-0825	335+70 Lt.	76"x48"	44°30'	14-4	12	13-1	12			4-2	38	20-11	4	7-4	2	13-6	4	5-11	6			8-#5	8	8-#5	1	7-~~10~~8	1	6-#11	1	6-#2	1	5-1	8	5-1	1	4-4	1	3-6	1	2-9	1			865	20.0	215
LAK-2-0825	335+70 Rt.	76"x48"	44°30'	14-4	12	12-9	12			4-2	36	20-11	4	7-1	2	13-6	4	5-7	6			8-#5	8	8-#5	1	7-#8	1	~~7-0~~ 6-10	1	6-#1	1	5-1	8	5-1	1	4-3	1	3-6	1	2-8	1			850	19.7	215
LAK-2-0966		83"x53"	19°55'	12-6	12	16-8	12			4-4	40	19-3	4	~~9~~-9	2	11-8	4	8-11	8			9-#3	7	9-#3	1	~~9-0~~ 8-11	1	8-#7	1	8-#3	1	5-10	7	5-10	1	5-6	1	5-2	1	4-10	1	Cont.		964	23.5	217
																						H_5		H_6								h_5		h_6										
LAK-2-0966	410+00 Lt.																					~~9-0~~ (7'-11")	1	7-#7	1									4-6	1	4-2	1									217

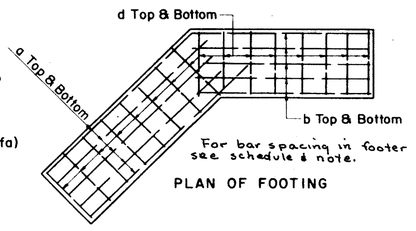


SECTION B-B

NOTE:
The number of a & b bars shown above shall be equally spaced across the footer.

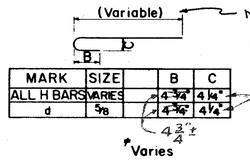


ELEVATION



For bar spacing in footer see schedule & note.

PLAN OF FOOTING



NOTE:
Variable length as shown is length of H bar shown above less B plus bend.

Inside dimension

NOTE:
For additional information see Std. Constr Dwgs. Hdwl. A, B & C.
Mark l bars to be bent in field to skew angle of headwall.

***NOTE:**
Quantities shown are for one Hdwl.
Vertical Bars spaced @ 2'-0" c-c
Horizontal Bars spaced @ 1'-6" c-c Max.
All Bars shall be #5 except "H" Bars in Structure No. LAK-2-0966 which shall be #6.

Reinforcing shall have 2" clearance unless otherwise indicated.

SKEWED HEADWALL DETAILS

Revised 4-1-59

L-32