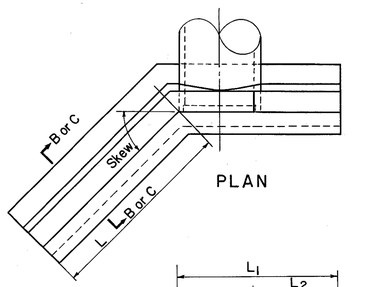
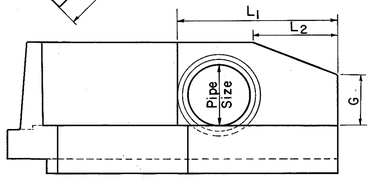
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	ACI-1103(28)	

181
211

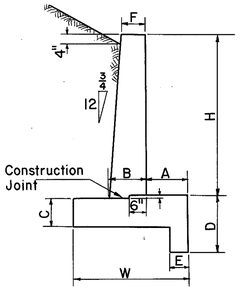
LAKE COUNTY
LAK-1-20.03



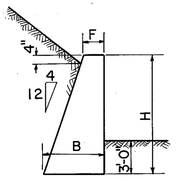
PLAN



ELEVATION



SECTION B-B



SECTION C-C

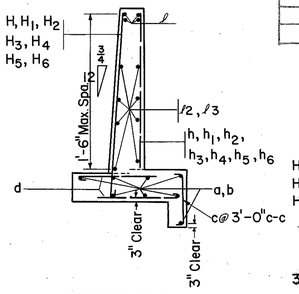
HEADWALL DIMENSIONS

STRUCTURE NO.	STATION*	PIPE SIZE	H	L	L_1	L_2	W	A	B	C	D	E	F	G
HEADWALL	714+00 Rt.	27"	6'-8"	8'-10"	5'-4"	2'-11"	–	–	3'-2¾"	–	–	–	1'-0"	4'-9"
LAK-1-2009	746+49 Rt.	42"	4'-8"	8'-5"	10'-6"	6'-8"	4'-3"	1'-4½"	1'-9½"	1'-9"	3'-6"	1'-0"	1'-6"	3'-8"
	746+49 Lt.	42"	SAME AS RIGHT SIDE											
LAK-1-2178	795+70 Rt.	54"	6'-0"	10'-4"	13'-11"	9'-0"	5'-0"	1'-9"	1'-10½"	1'-9"	3'-6"	1'-0"	1'-6"	4'-9"
	795+70 Lt.	54"	6'-0"	11'-2"	13'-4"	8'-5"	5'-0"	1'-9"	1'-10½"	1'-9"	3'-6"	1'-0"	1'-6"	4'-6½"
LAK-1-2222	819+25 Rt.	42"	4'-10"	8'-11"	10'-1"	6'-4"	4'-3"	1'-4½"	1'-9⅜"	1'-9"	3'-6"	1'-0"	1'-6"	3'-6"
	819+25 Lt.	42"	4'-8"	8'-3"	10'-6"	6'-8"	4'-3"	1'-4½"	1'-9½"	1'-9"	3'-6"	1'-0"	1'-6"	3'-8"
HEADWALL	754+00 Lt.	27"	6'-3"	5'-8"	7'-6"	5'-0"	–	–	3'-1"	–	–	–	1'-0"	5'-10"
HEADWALL	793+55 Lt.	21"	5'-11"	6'-5"	4'-6"	2'-6"	–	–	2'-11¾"	–	–	–	1'-0"	4'-7"

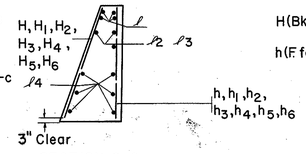
REINFORCING STEEL LIST & CONCRETE QUANTITIES

STRUCTURE NO.	STATION*	PIPE SIZE	SKEW	MARK a	NO.	MARK b	NO.	MARK c	NO.	MARK d	NO.	MARK ℓ	NO.	MARK ℓ_1	NO.	MARK ℓ_2	NO.	MARK ℓ_3	NO.	MARK ℓ_4	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.
HEADWALL	714+00 Rt.	27"	44°30	–	–	–	–	–	–	–	–	11-1	4	2-9	2	8-8	2	2-9	4	13-10	6	6-7	6	6-7	1	5-8	1	4-8	1	–	–	6-3	6	6-3	1	5-4	1	4-4	1	–	–	283	6.9	
LAK-1-2009	746+49 Rt.	42"	11°	8-11	8	11-0	8	4-1	7	3-2	26	12-3	4	6-6	2	8-1	6	6-6	6	–	–	6-10	5	6-10	1	6-6	1	6-2	1	5-10	1	4-6	5	4-6	1	4-2	1	3-10	1	3-6	1	540	11.2	
	746+49 Lt.	42"	11°	SAME AS RIGHT SIDE																																							
LAK-1-2178	795+70 Rt.	54"	10°	10-10	8	14-5	8	4-1	9	3-11	34	15-3	4	8-10	2	10-0	6	8-11	8	–	–	8-2	6	8-2	1	7-11	1	7-8	1	7-5	1	5-10	6	5-10	1	5-7	1	5-4	1	5-1	1	818	17.5	
	795+70 Lt.	54"	10°	11-8	8	13-10	8	4-1	9	3-11	34	16-1	4	8-3	2	10-10	6	8-4	8	–	–	8-2	7	8-2	1	7-10	1	7-5	1	7-1	1	5-10	7	5-10	1	5-6	1	5-1	1	4-9	1	823	17.5	
LAK-1-2222	819+25 Rt.	42"	12°	9-5	8	10-7	8	4-1	7	3-2	26	12-8	4	6-2	2	8-7	6	6-1	6	–	–	7-0	5	7-0	1	6-7	1	6-1	1	5-8	1	4-8	5	4-8	1	4-3	1	3-9	1	3-4	1	544	11.4	
	819+25 Lt.	42"	12°	8-9	8	11-0	8	4-1	7	3-2	26	12-1	4	6-6	2	7-11	6	6-6	6	–	–	6-10	5	6-10	1	6-6	1	6-2	1	5-10	1	4-6	5	4-6	1	4-2	1	3-10	1	3-6	1	537	11.1	
HEADWALL	754+00 Lt.	27"	13°	–	–	–	–	–	–	–	–	8-0	4	4-10	2	5-4	2	4-11	4	12-10	6	6-2	4	6-2	1	5-11	1	5-9	1	–	–	5-10	4	5-10	1	5-7	1	5-5	1	–	–	242	5.9	
HEADWALL	793+55 Lt.	2 "		–	–	–	–	–	–	–	–	8-3	4	2-4	2	6-1	2	2-5	2	9-7	6	5-11	4	5-11	1	5-3	1	4-7	1	–	–	5-6	4	5-6	1	4-10	1	4-2	1	–	–	196	4.0	

		H_5		H_6		h_5		h_6	
	795+70 Rt.	7-2	1	6-11	1	4-10	1	4-7	1
	795+70 Lt.	6-9	1	–	–	4-5	1	–	–

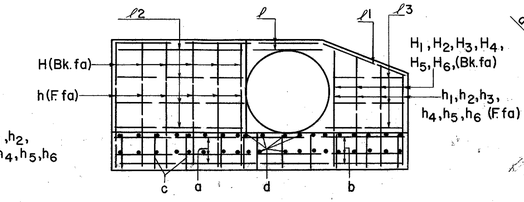


SECTION B-B

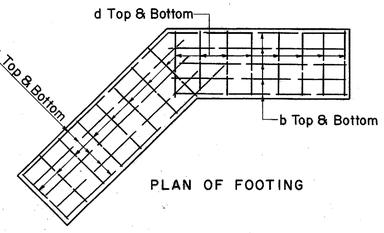


SECTION C-C

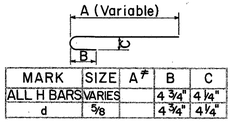
*Stationing on ℄ S.R. 1 unless otherwise shown



ELEVATION



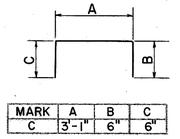
PLAN OF FOOTING



MARK	SIZE	A#	B	C
ALL H BARS	VARIES		4 ¾"	4 ¼"
d	⅝		4 ¾"	4 ¼"

*Varies

NOTE:
For additional information see Std. Constr. Dwgs. Hdwl. A, B & C.
Mark ℓ and ℓ_4 bars to be bent in field.



MARK	A	B	C
C	3'-1"	6"	6"

*NOTE:
Quantities shown are for one Hdwl.
Vertical Bars spaced @ 2'-0" c-c.
Horizontal Bars spaced @ 1'-6" c-c Max.