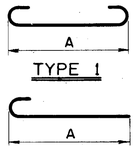

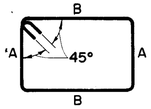

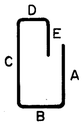

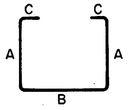

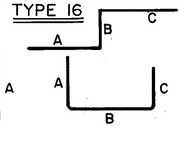

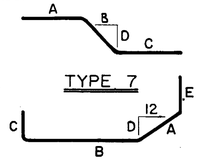

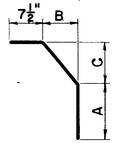

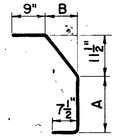

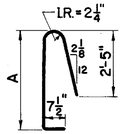

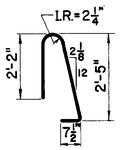

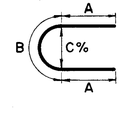

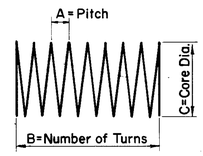

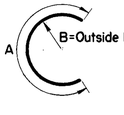

FHWA REGION	STATE	PROJECT	
5	OHIO		

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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

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	R.Rt.	R.Lt.	F.Rt.	F.Lt.
		INTERIOR SLABS AND WALLS											
A-501	10	20'-2"	210	STR.									
A-502	2	2'-5"	5	STR.									
A-503	16	3'-0"	50	6	1'-7"	1'-7"	—						
A-504	20	6'-8"	139	STR.									
A-505	8	22'-8"	189	STR.									
A-506	36	4'-0"	150	6	3'-1"	1'-1"	—						
A-507	25	2'-11"	76	STR.									
A-508	40	3'-2"	132	STR.									
A-509	15	22'-8"	355	STR.									
A-510	24	11'-2"	280	STR.									
A-511	13	8'-1"	110	6	6'-2"	2'-1"	—						
A-512	9	4'-1"	57	6	4'-2"	2'-1"	—						
A-513	4	2'-2"	9	STR.									
A-514	2	2'-11"	6	STR.									
A-601	14	8'-8"	182	STR.									
A-602	3	6'-8"	30	STR.									
A-603	3	3'-5"	15	STR.									
A-604	12	13'-2"	237	STR.									
A-605	12	3'-5"	62	STR.									
A-606	42	6'-2"	389	STR.									
A-701	28	4'-8"	267	6	2'-5"	2'-5"	—						
A-702	4	5'-0"	41	6	3'-8"	1'-6"	—						
A-703	2	22'-8"	93	STR.									
A-801	4	20'-2"	215	STR.									
A-802	4	5'-6"	59	6	4'-0"	1'-8"	—						
		INTERIOR FLOOR OF PUMP											
P-501	10	6'-1"	64	7	4'-5"	1'-9"	—	20¾"					
P-502	12	5'-4"	67	STR.									
P-503	3	19'-2"	60	STR.									
P-504	2	3'-7"	8	STR.									
P-505	8	7'-10"	65	7	6'-2"	1'-0"	—	1'-6"					
P-506	66	2'-2"	149	STR.									
P-507	6	20'-6"	128	STR.									
P-508	6	21'-1"	132	7	13'-10"	7'-3"	—	1'-5"					
P-509	6	16'-2"	101	STR.									
P-510	4	16'-2"	67	7	13'-10"	2'-4"	—	0'-5½"					
P-511	22	7'-9"	178	STR.									
P-512	22	8'-1"	186	7	6'-2"	1'-5"	—	1'-5"					
P-513	10	3'-8"	38	STR.									
P-514	2	7'-4"	15	STR.									

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E
			FLAP VALVE CHAMBER						
E-501	8	4'-8"	39	STR.					
E-502	6	3'-9"	24	STR.					
E-503	13	4'-8"	63	STR.					
E-504	8	18'-2"	152	STR.					
E-505	8	6'-8"	56	6	1'-7"	3'-9"	1'-7"		
E-506	18	3'-2"	60	3	0'-8"	0'-8"			
E-507	24	2'-6"	63	STR.					
E-508	16	7'-5"	124	6	0'-11"	6'-8"	—		
			STAIR WAYS						
R-502	8	7'-11"	66	7	4'-0"	3'-0"	—	2'-7"	
R-503	8	21'-7"	180	7	3'-0"	14'-3"	—	12'-2"	
R-504	14	3'-8"	54	STR.					
R-505	4	5'-8"	24	7	—	2'-2"	3'-8"	0'-11"	
R-506	8	2'-8"	22	STR.					
			GRIT CHAMBER (WALLS)						
G 701	20	23'-9"	971	STR.					
G 702	20	25'-9"	1053	6	24'-5"	1'-6"	—		
G 703	32	16'-3"	1063	STR.					
G 704	4	7'-5"	61	STR.					
G 705	4	6'-9"	55	STR.					
G 706	2	6'-7"	27	STR.					
G 707	2	13'-7"	56	STR.					
G 708	1	12'-9"	26	STR.					
G 709	4	5'-8"	46	STR.					
G 710	80	16'-10"	2753	16	2'-10"	12'-2"	2'-2"		
G 711	80	16'-2"	2644	6	2'-2"	12'-2"	2'-2"		
G 712	33	15'-8"	1057	6	2'-2"	11'-8"	2'-2"		
G 713	33	17'-0"	1147	6	2'-10"	11'-8"	2'-10"		
G 714	4	6'-8"	54	6	2'-2"	4'-8"	—		
G 715	4	7'-4"	60	6	2'-10"	4'-8"	—		
G 716	4	6'-0"	49	6	2'-2"	4'-0"	—		
G 717	4	6'-8"	54	6	2'-10"	4'-0"	—		
G 718	8	5'-8"	93	6	2'-2"	3'-8"	—		
G 719	8	6'-4"	104	6	2'-10"	3'-8"	—		
G 720	8	6'-0"	98	STR.					
G 721	2	15'-7"	64	6	14'-3"	1'-6"	—		
G 722	1	14'-9"	30	6	13'-5	1'-6"	—		
G 723	2	8'-1"	33	6	2'-10"	5'-5"	—		
G 724	6	7'-5"	91	6	2'-2"	5'-5"	—		
G 725	4	23'-3"	190	STR.					
			(BOTTOM SLAB)						
S 707	14	13'-6"	386	STR.					
S 708	24	11'-2"	548	STR.					
S 736	43	5'-6"	483	9	2'-2"	0'-8"	2'-8"		

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	Rt.Br.	Lt.Br.
			GRIT CHAMBER (TOP SLAB)								
T 526	13	11'-8"	158	STR.							
T 527	3	7'-6"	23	STR.							
T 528	14	2'-11"	43	STR.							
T 529	7	12'-2"	89	STR.							
T 530	4	6'-9"	28	STR.							
T 531	5	7'-3"	38	STR.							
T 532	2	4'-4"	9	STR.							
T 533	5	1'-2"	6	STR.							
T 534	2	8'-0"	17	STR.							
T 535	7	2'-3"	16	STR.							
T 536	2	1'-9"	4	STR.							
T 537	6	2'-9"	17	STR.							
T 538	13	3'-6"	47	3	0'-10"	0'-8"					
T 707	3	14'-8"	90	1	11'-8"						
		TOTAL	94,065								

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 CMS Sections 106.08, 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.

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

PUMP STATION

REINFORCING STEEL

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ROB		F.F.	PCB	JA	6/20-80	