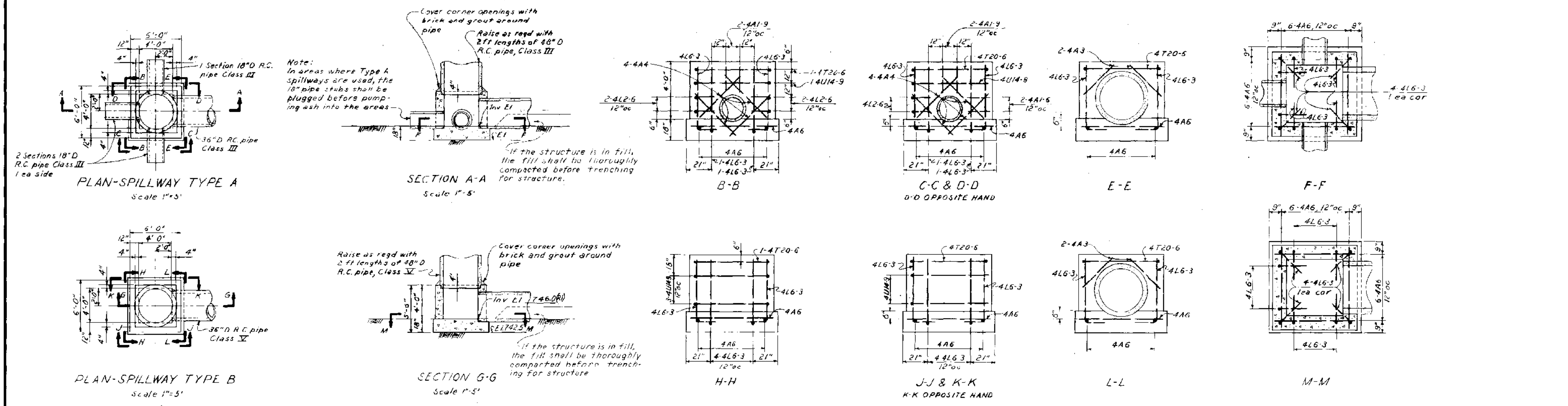
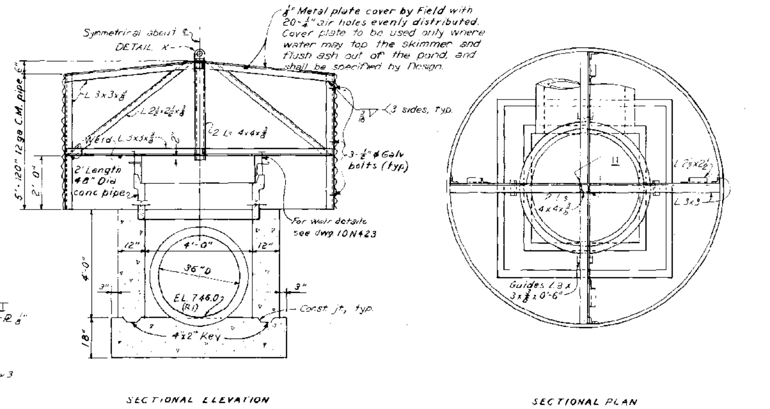
10N422

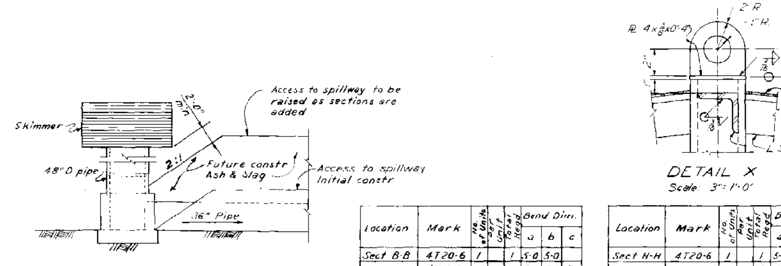


⑫ PLANT PERSONNEL SHALL DETERMINE THE NEED FOR ADDITIONAL DETENTION TIME IN THE DISPOSAL AREA AND SHALL PROVIDE THE ADDITIONAL DETENTION TIME BY ADDING A TWO FOOT SECTION OF 48" CONCRETE PIPE TO THE SPILLWAYS.



SKIMMER DETAILS

Scale $\frac{1}{2}$" = 1'-0"



REINFORCEMENT SCHEDULE

Location	Mark	No. of Units	Per Unit	Total Reqd	Bend Dim. a	b	c
Sect B-B	4T20-6	1		1	5-0	5-0	
	4U14-9	1		1	5-0	5-0	Ex
	4L6-3	1		2	2-0	Ex	
— —	4L2-6	1		4	1-3	Ex	
	4A4	1		4			
	4A1-9	1		2			
Sect CC&D-D	4L6-3	2	2	4	2-0	Ex	
	4A4	2	4	8			
	4A1-9	2	2	4			
	4A1-6	2	2	4			
Sect E-E	4A3	1		2			
Sect F-F	4L6-3	1		4	2-0	Ex	
	4A6	1		12			

TYPE A SPILLWAY

Location	Mark	No. of Units	Per Unit	Total Reqd	Bend Dim. a	b	c
Sect H-H	4T20-6	1		1	5-0	5-0	
	4U14-9	1		3	5-0	5-0	Ex
	4L6-3	1		4	2-0	Ex	
Sect J-J&K-K	4L6-3	2	4	8	2-0	Ex	
Sect L-L	4A3	1		2			
Sect M-M	4L6-3	1		4	2-0	Ex	
	4A6	1		12			

TYPE B SPILLWAY

BILL OF MATERIAL

ITEM	DESCRIPTION	NO. of Splwys	PER SPLWY	TOTAL REQD
401	Class A Concrete	6	5 cu yd	30 CU YD
418	Reinforcing Steel	6	170 lb	1020 LB
~~602~~	~~18"D Reinforced Concrete Pipe-Class V Type A Only~~			
604	36"D Reinforced Concrete Pipe-Class V "O" RING	6	VARIES	936 FT
* 604	48"D Reinforced Concrete Pipe-Class V (Bell & Spigot)	6	12	72 FT
660	120"-12 Gage Corrugated Metal Pipe	6	5 ft	30 FT
	$\frac{1}{2}$" ϕ Galvanized Bolt	6	12	72
	~~$\frac{1}{8}$" Metal cover — — (By Field see Skimmer Details)~~	~~6~~	~~1~~	~~6~~
	$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{8}$ Angle	6	23 ft	138 FT
	$3 \times 3 \times \frac{3}{8}$ Angle	6	67 ft	402 FT
	$4 \times 4 \times \frac{3}{8}$ Angle	6	8 ft	48 FT

* 48" CONCRETE PIPE TO BE IN 2' LENGTHS.

NOTES:

① SPECIFICATIONS: All work shall be done in accordance with the T-1 Specifications.
② All concrete shall be Class A in accordance with Section 400.
~~③ Where earth borrow can be obtained economically, example, from disposal area, it may be used to raise dikes.~~
~~④ Vegetation shall be established on all earth slopes, initial and future construction. Seeding specifications to be furnished with drawings for each project. In general, type 7 Section 180 of T-1 Specifications is recommended.~~
~~⑤ Location and elevation of the spillways shall be selected so as to maintain the depth of water in the ash pond at an absolute minimum.~~
~~⑥ Use Type A spillways for ash areas not scheduled for immediate use.~~
~~⑦ A section of 120" corrugated metal pipe, fully coated, shall be used for the skimmer device. All seams and joints shall be riveted. Fabrication of the pipe shall be complete prior to coating.~~

⑧ One 2' section of 48" Dia pipe shall be installed during initial construction.
⑨ As additional sections of 48" pipe are added, grout the joint to form a stable and water-tight connection.
⑩ Top of dike must be maintained a minimum of 4' above the elevation of water in the Ash Disposal Area.
⑪ As dikes are raised the Field shall provide drainage from the top and outside slopes of the dikes that will control erosion of dikes.
⑫ SEE ABOVE NOTE.

REFERENCE DRAWINGS:
30B519 REINFORCEMENT BENDING DIAGRAMS

Scale $\frac{1}{2}$" = 1'-0"
Except as noted

STANDARD DRAWING

ASH DISPOSAL SPILLWAY

KINGSTON STEAM PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED | RECOMMENDED | APPROVED G.L. Buchanan

KNOXVILLE 5-20-76 36 C 10N422 R1

RECORD DRAWING AS CONSTRUCTED

INSPECTED AND APPROVED FOR ISSUE — DESIGN PROJECT MANAGER

COMPANION DRAWING: 10N420, N421, N423
HWY PROJECT 2102

R1 REVISED & RETAINING 36" PIPE ...

DO NOT USE ORIGINAL