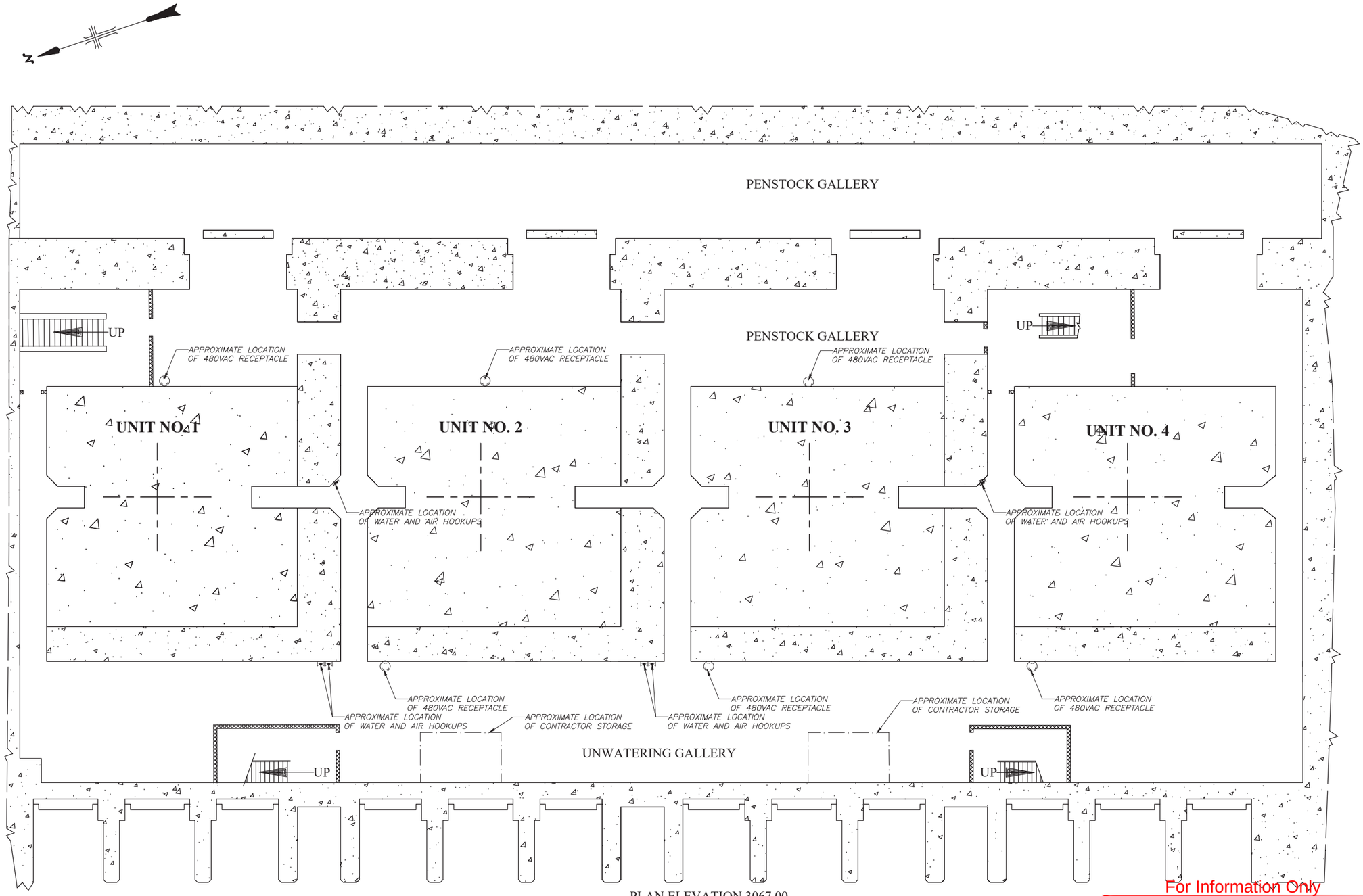
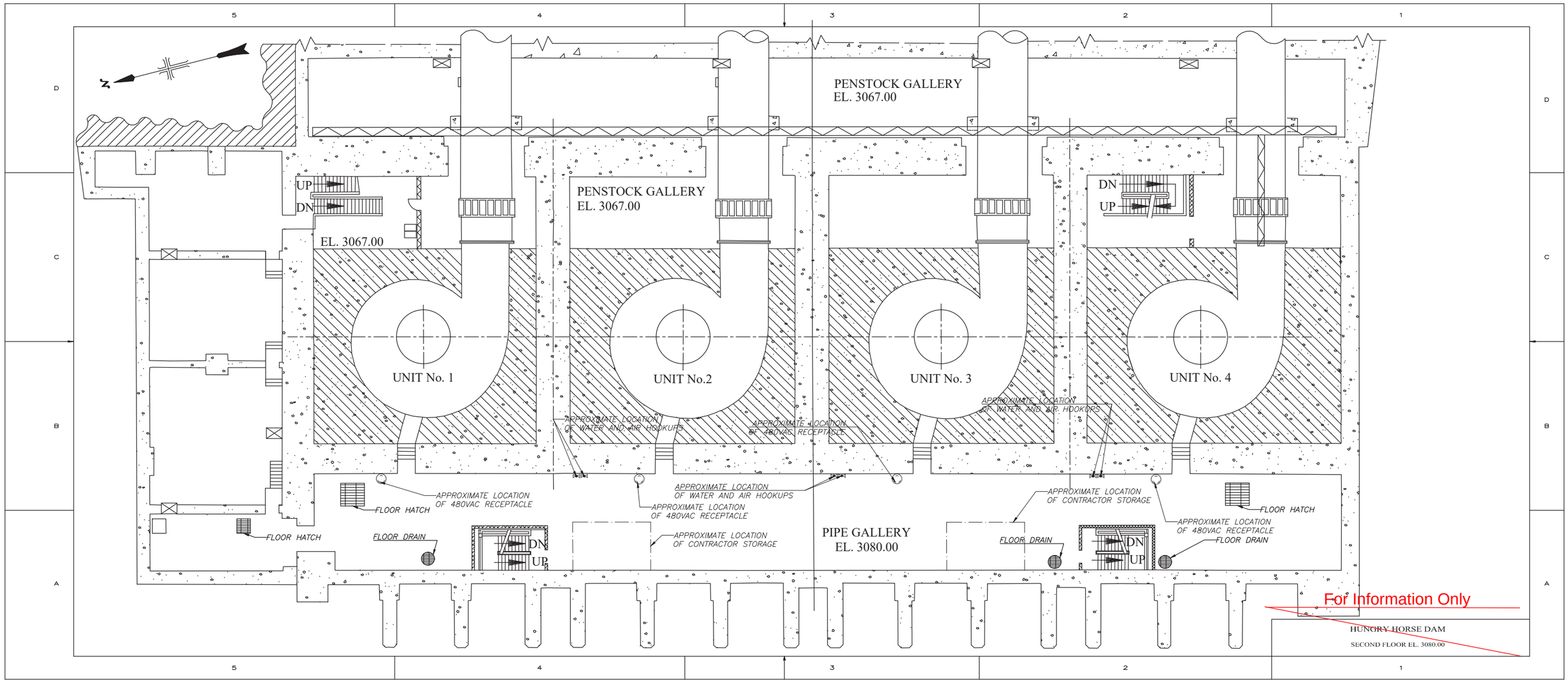


PLAN ELEVATION 3067.00

For Information Only

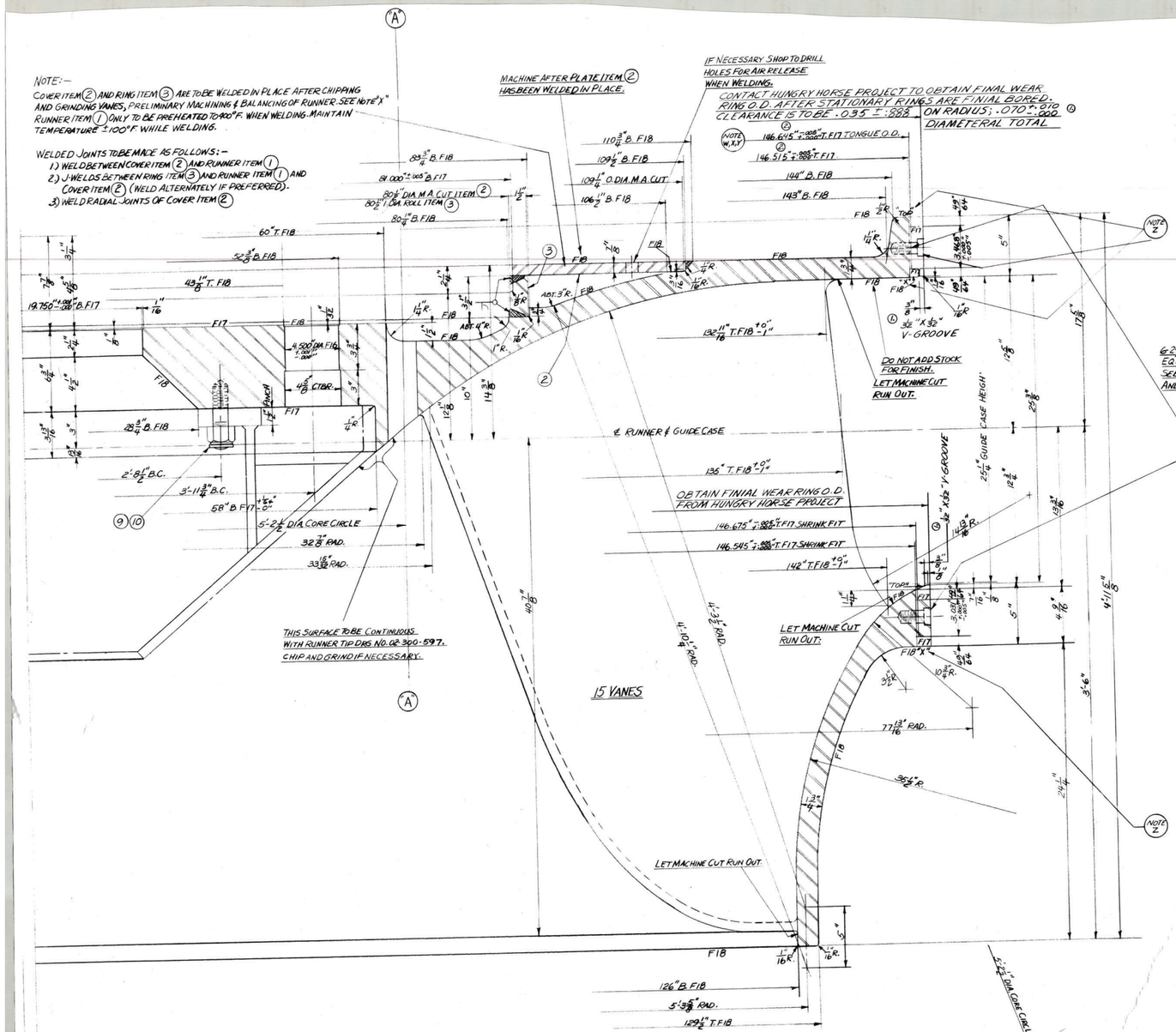
HUNGRY HORSE DAM

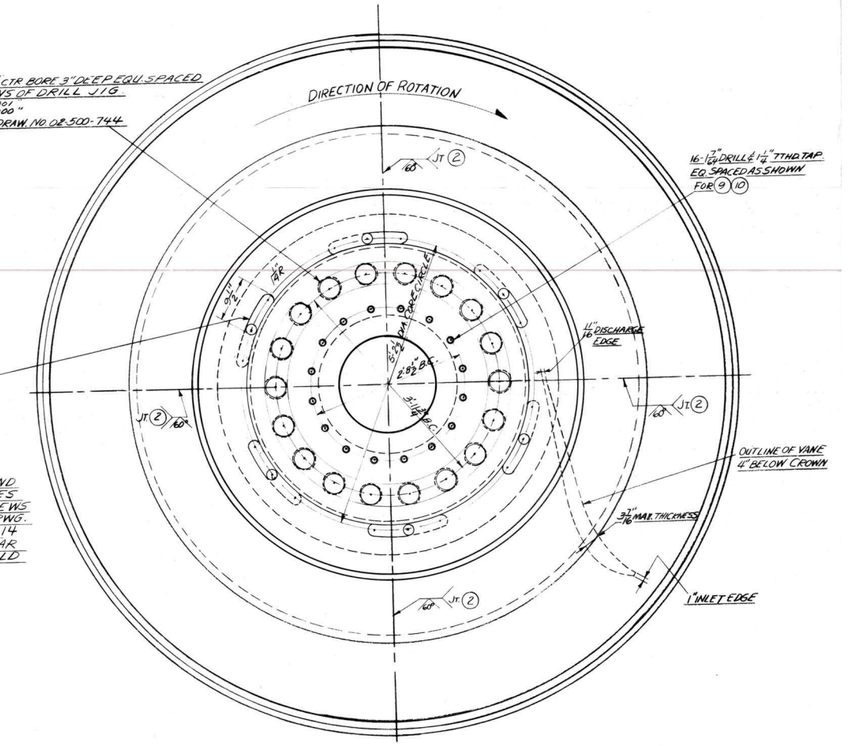
FIRST FLOOR ELEVATION 3067.00

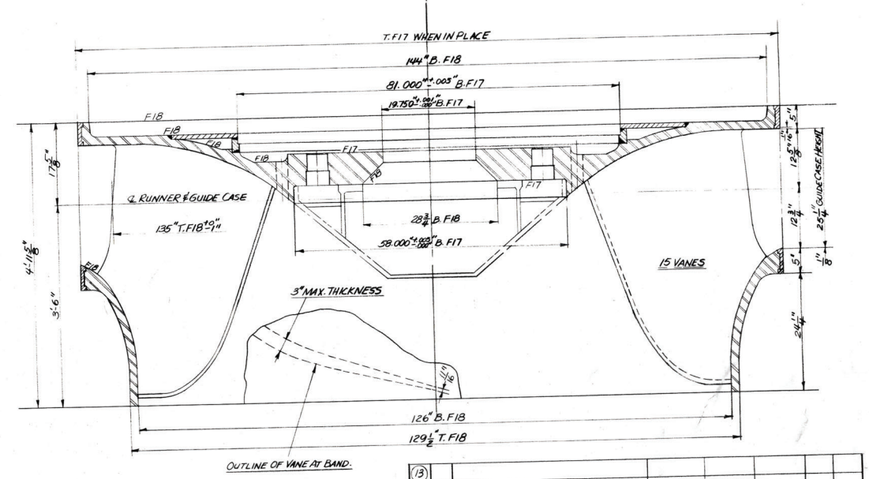

PENSTOCK GALLERY
EL. 3067.00
PENSTOCK GALLERY
EL. 3067.00
EL. 3067.00
UP
DN
DN
UP
UNIT No. 1
UNIT No.2
UNIT No. 3
UNIT No. 4
APPROXIMATE LOCATION OF WATER AND AIR HOOKUPS
APPROXIMATE LOCATION OF 480VAC RECEPTACLE
APPROXIMATE LOCATION OF WATER AND AIR HOOKUPS
APPROXIMATE LOCATION OF 480VAC RECEPTACLE
APPROXIMATE LOCATION OF WATER AND AIR HOOKUPS
APPROXIMATE LOCATION OF CONTRACTOR STORAGE
APPROXIMATE LOCATION OF 480VAC RECEPTACLE
FLOOR HATCH
FLOOR HATCH
FLOOR DRAIN
APPROXIMATE LOCATION OF CONTRACTOR STORAGE
PIPE GALLERY
EL. 3080.00
FLOOR DRAIN
APPROXIMATE LOCATION OF 480VAC RECEPTACLE
FLOOR DRAIN
FLOOR HATCH
DN
UP
DN
UP
For Information Only
HUNGRY HORSE DAM
SECOND FLOOR EL. 3080.00

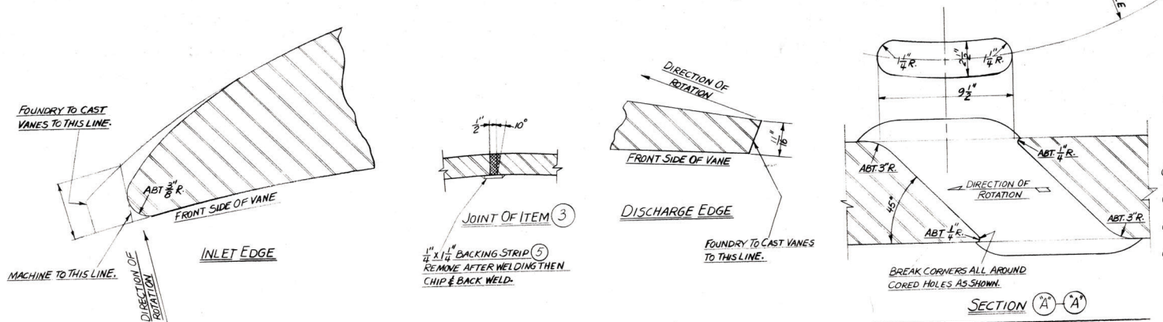
NOTE:—
COVER ITEM (2) AND RING ITEM (3) ARE TO BE WELDED IN PLACE AFTER CHIPPING AND GRINDING VANES, PRELIMINARY MACHINING & BALANCING OF RUNNER. SEE NOTE "X"
RUNNER ITEM (1) ONLY TO BE PREHEATED TO 400°F. WHEN WELDING. MAINTAIN TEMPERATURE ± 100°F. WHILE WELDING.

WELDED JOINTS TO BE MADE AS FOLLOWS:—
1) WELD BETWEEN COVER ITEM (2) AND RUNNER ITEM (1)
2) J-WELDS BETWEEN RING ITEM (3) AND RUNNER ITEM (1) AND COVER ITEM (2) (WELD ALTERNATELY IF PREFERRED).
3) WELD RADIAL JOINTS OF COVER ITEM (2)









SPECIFICATIONS

MATERIAL FOR STEEL CASTING ITEM (1) SHALL CONFORM TO FEDERAL SPECIFICATIONS QQ-S-681b, CLASS 2 MEDIUM, ANNEALED, EXCEPT THAT RADIOGRAPHING OR SIMILAR TESTS WILL NOT BE REQUIRED.

NOTES (2)

(Z.) ALL FACES MARKED "TOP", "X" AND "WHEN IN PLACE" ARE TO BE FINAL MACHINED AFTER RINGS ARE IN PLACE ON RUNNER.
(Y.) VERIFY WEARING RINGS I.D.S PRIOR TO FINAL DETERMINATION OF CLEAN UP MACHINING ON RUNNER SURFACES (DESIRE .075 INCH SHRINK FIT).
(X.) WEARING RING I.D. AT 60°F. PRIOR TO INSTALLATION, SHALL BE 146.570" ± 0.010 FOR GROOVE AND 146.440" ± 0.010 FOR UPPER & LOWER FLATS.
(W.) HEAT WEARING RING TO 325°F FOR INSTALLATION.

ITEM REQ.	SIZE & NAME	MATL.	DWG NO.	EACH	
13					
12					
11					
10	16 — 1 1/4"-7 THD. STAY-ON HEX LOCK NUT	STEEL	Q-0009329-50-6327		
9	16 — 1 1/4"-7 THD X 5 1/4" LG. STUD (1 1/4" DIA.)	STEEL	Q-0000473-50-5014		
5	1 — 1/4" x 1 1/4" x 10" LG. BACKING STRIP	STEEL S.S. "C"	CUT FROM 1/4" x 1 1/4" BAR		CANT SHIP
4	203 — WELDING ROD	STEEL		205	
3	1 — 83 1/2" O.D. X 80 1/2" I.D. X 3 1/2" HIGH RING	STEEL S.S. "C"	ROLL FROM 2-1/2" x 3 1/2" x 138" LG. BAR	420	
2	4 — 109 1/2" O.D. X 80 1/2" I.D. X 1/2" THK. COVER QUARTER	U.S.S. "A.T.S." HIGH STRENGTH LOW ALLOY	ROLL FROM 1/2" x 4 1/2" x 109 1/2" LG. PLT.	475	WILL TESTS
1	1 — R.H. RUNNER (ANNEALED)	CAST STEEL SEE SPECSHEET	2 WT. 94276 TEST ISAES	5200	WILL TESTS

MATERIAL TO MAKE ONE R.H. RUNNER

FOR INFORMATION ONLY

THIS DRAWING SUPERSEDES DRAWING 447-105-4007 AND ALLIS CHALMERS' DRAWING 02-500-722

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

126" DISCHARGE DIA. 613-C R.H. RUNNER USED ON HYDRAULIC TURBINE AT HUNGRY HORSE PROJECT

DRAWN GCL 4-10-89 SUBMITTED
TRACED RECOMMENDED
CHECKED APPROVED

DRWG. NO. 447-105-4016

(13) 11-19-92 CHANGED DIM. & DESC. (12) 10-17-90 CHANGED NO. & DESC. (11) 4-10-89 CHANGED DIMENSIONS. (10) 8-8-88 TOTAL CHANGE OF DIMENT.

126" DISCHARGE DIA. -613-C R.H.
RUNNER USED ON HYDRALIC TURBINE