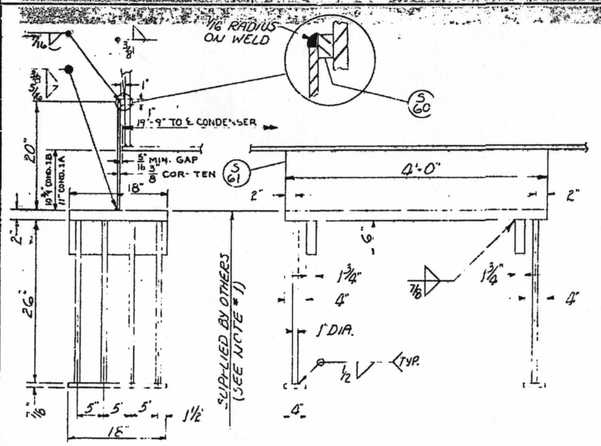
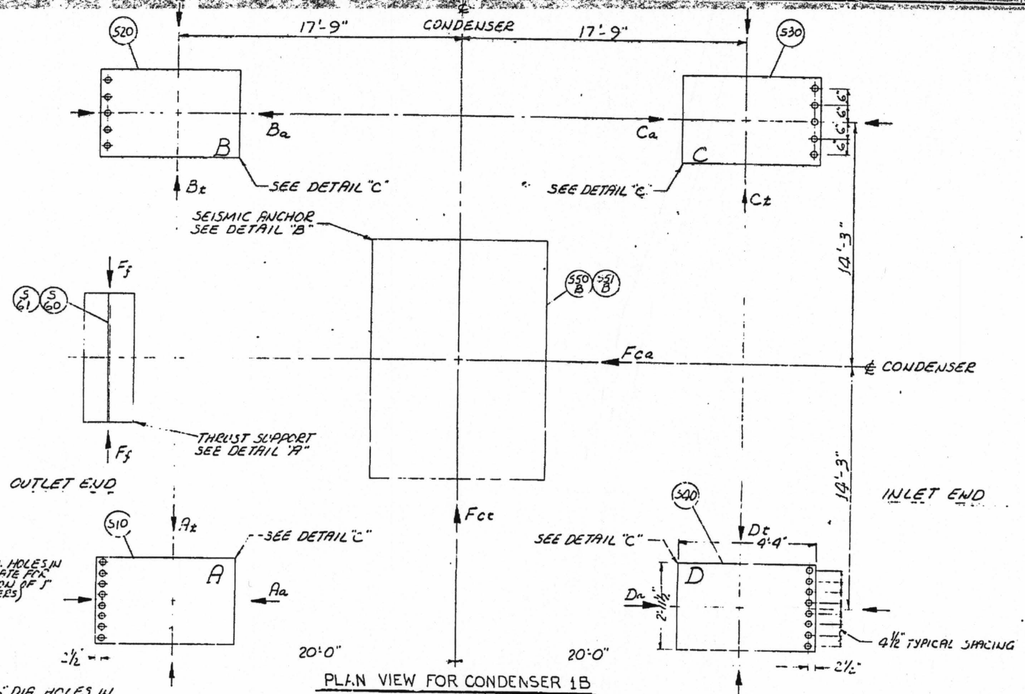
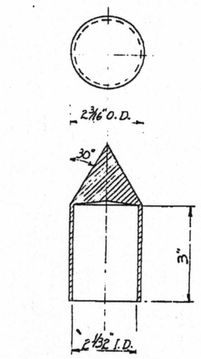
ALT.	DATE	REVISION	BY	CKD.
A	4-68	REVISED PER B & R LETTER DATED 3-22-68 AND MARKED-UP PRINT DATED 3-20-68.	G.C.	M.N.R.
B	8/28/68	REVISED PER BURNS & ROE LETTER DATED 8-12-68 AND MARKED-UP PRINT DATED 8-9-68.	J.G.C.	M.N.R.
C	12/12/68	REVISED PER BURNS & ROE LETTER DATED 11-13-68 AND MARKED-UP PRINT DATED 11-12-68. REVISED DET. "A" & "B" PER TELEPHONE CONVERSATION WITH CHARLES KLINE 12/12/68	J.G.C.	M.N.R.
D	1-23-69	REVISED PER B & R LTR DATED 1-20-69 & M.S.D. PRT. DATED 1-17-69	O.R.C.	M.N.R.
E	2-27-69	REVISED PER B & R LTR DATED 2-14-69 & M.S.D. PRT. DATED 2-5-69	O.R.C.	M.N.R.
F	9-24-69	REVISED WELD SYM. IN ZONE "5B".	O.R.C.	M.N.R.



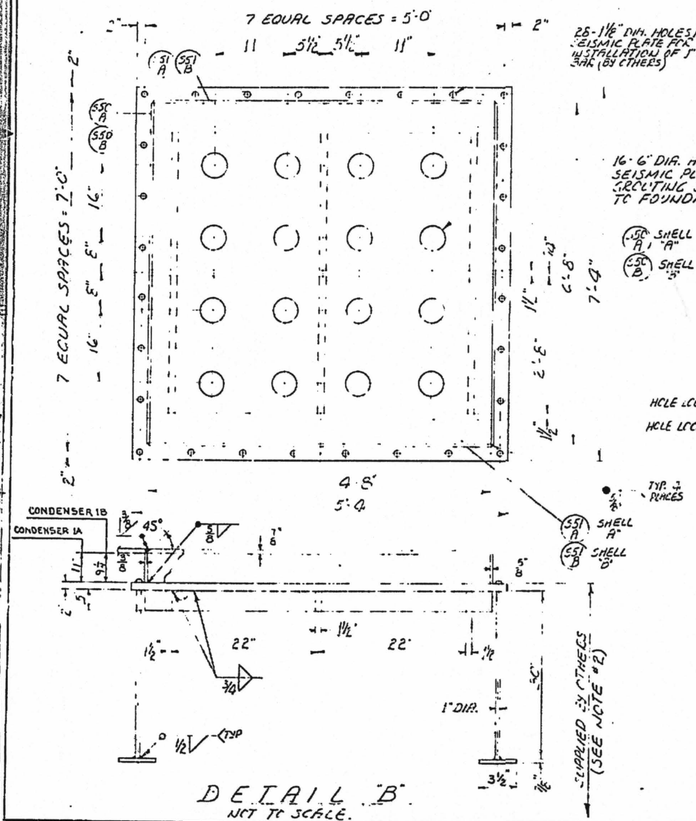
DETAIL "A"
SCALE: 1" = 1'-0"



PLAN VIEW FOR CONDENSER 1B
SCALE: ½" = 1'-0"



DETAIL "D"
(SEE NOTE #4)



DETAIL "B"
NOT TO SCALE.

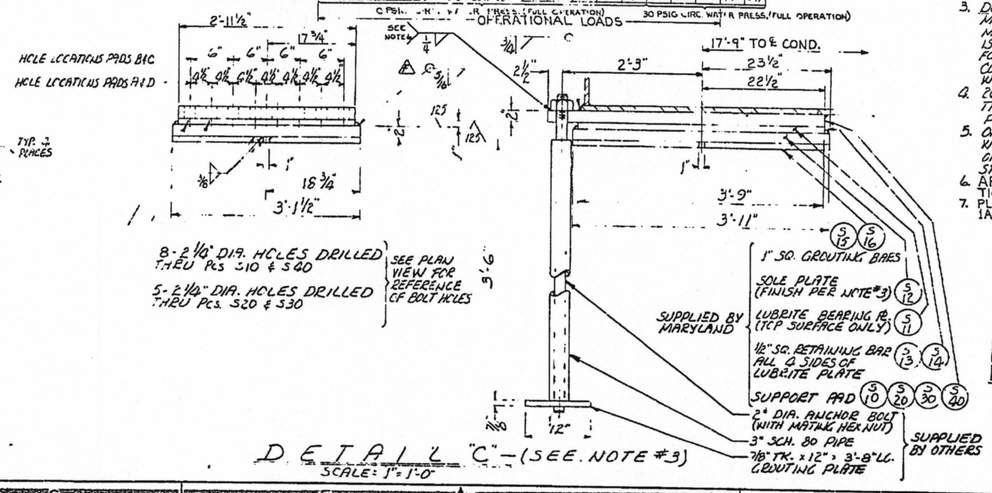
28-1⅛" DIA. HOLES IN SEISMIC PLATE FOR INSTALLATION OF T BAR (BY OTHERS)

16-6" DIA. HOLES IN SEISMIC PLATE FOR GROUTING CONDENSER TO FOUNDATION

LOAD DIAGRAM (KIPS LOAD) ↓ SIGNIFIES DOWN LOAD; ↑ SIGNIFIES UP LOAD

CONDITION	A	B	C	D	FRICTION LOADS THRU EXPANSION JOINT & CONTROL							F_{ca}	F_{cc}	F_f	SEISMIC LD F_{ca}	SEISMIC LD F_{cc}
					F_{ca}	F_{cc}	B_a	C_a	C_t	D_a	D_t					
FLOODED WATER CIRCUIT FILLED	1200	1200	1200	1200												
DRY	241	241	241	241											107	107
DRY WITH VACUUM IN SHELL	337	32.8	29.5	340.3	0	0	0	0	0	0	0	46	342	18	107	107
FULL CIRCUITATION 30 PSIG CIRC. WATER PRESS.	107	24.3	7	363	0	0	20	17	0	0	0	538.4	359	18	221	221
HALF OPERATION 30 PSIG CIRC. WATER PRESS.	152	240	95	298	0	0	18.3	15.4	7.2	6.1	0	293.4	483	137	193	193
FULL OPERATION 30 PSIG CIRC. WATER PRESS.	390	390	390	390	30	25	30	25	30	25	30	472	0	0	191	191

OPERATIONAL LOADS



8-2⅛" DIA. HOLES DRILLED THRU PCS. S10 & S90
5-2½" DIA. HOLES DRILLED THRU PCS. S20 & S30
SEE PLAN VIEW FOR REFERENCE OF BOLT HOLES

DETAIL "C" — (SEE NOTE #3)
SCALE: 1" = 1'-0"

NOTES

1. DETAIL "A" - ALL COMPONENTS IN DETAIL "A" TO BE FURNISHED BY PURCHASER EXCEPT ⅜" THK. COR-TEN FLEXIBLE THRUST MEMBER WHICH IS SUPPLIED BY MARYLAND AND IS TO BE FIELD TRIMMED AND WELDED INTO POSITION AFTER CONDENSER WATER TEST.
2. DETAIL "B" - 6-⅞ x 3½ x 6-⅞-7 cond 18 & 2-⅞ x 11 x 2-⅞-7 cond 19. (PLATES BY MARYLAND) TO BE FIELD INSTALLED. ALL OTHER COMPONENTS IN DETAIL "B" TO BE FURNISHED BY PURCHASER
3. DETAIL "C" - ALL COMPONENTS IN DETAIL "C" TO BE FURNISHED BY MARYLAND EXCEPT AS NOTED. TOP SURFACE OF SOLE PLATE TO BE MACHINED FLAT. SOLE PLATE TO BE GROUTED IN PLACE AFTER CONDENSER IS SET IN PCS. 17 & 19. PIPES ARE NOT TO BE FILLED WITH CONCRETE. FOUNDATION BOLTS ARE TO BE CENTERED IN CONDENSER SUPPORT PADS WHEN CONDENSER IS LOWERED IN PLACE. BOLTS MAY BE ALIGNED LATERALLY WITH LEAD HAMMERS
4. 26 - STEEL "BULLETS" ARE REQUIRED FOR GUIDING FOUNDATION BOLTS THROUGH HOLES IN SUPPORT PADS. "BULLETS" TO BE SUPPLIED BY OTHERS PER DETAIL "D."
5. OPERATIONAL LOADS DO NOT INCLUDE THE EFFECTS OF SEISMIC LOADS WHICH ARE HORIZONTAL FORCES EQUAL TO 0.1 OF WEIGHTS APPLIED TO CENTERS OF GRAVITY. THE RESULTANT LOADS WITH SEISMIC EFFECTS INCLUDED GIVE STRESSES IN SUPPORTS WELL BELOW THE YIELD STRENGTH.
6. AFTER SHELL WATER TEST, NUTS TO BE ADJUSTED TO FINGER TIGHTNESS ONLY AND LOCKED BY TACK WELDING.
7. PLAN VIEW SHOWS CONDENSER 1B ; OPPOSITE HAND FOR CONDENSER 1A. SEE KEY PLAN ON DWG. EC93877GA SHT. 1 OF 4.

RECEIVED
SEP 11 1974
68004 1062

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SEP 26 1974

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SEP 1974
BURNS and ROE INCORPORATED

9268	F
DATE	REV.
RELEASE FOR MFR.	

INDUSTRIAL PRODUCTS DIVISION
MARYLAND SHIPBUILDING & DRY DOCK CO.
BALTIMORE, MD.

SUPPORT FOOT DETAILS AND LOADINGS
465,000 SQ.FT (TWIN SHELL) SURFACE CONDENSER
FOR CONSUMERS PUBLIC POWER DISTRICT

DESIGNED		CHECKED M.N.R. 5-1-68	
DRAWN G.F.M. 4-26-68		APPROVED	
CONT. NO. 93877	SCALE AS NOTED	DRWG. SHEET 4 OF 4 DC93877GB	REV. E

EXPIRES ON
STOP MAR 27 2000 STOP
NON - CONTROLLED PRINT

D-1