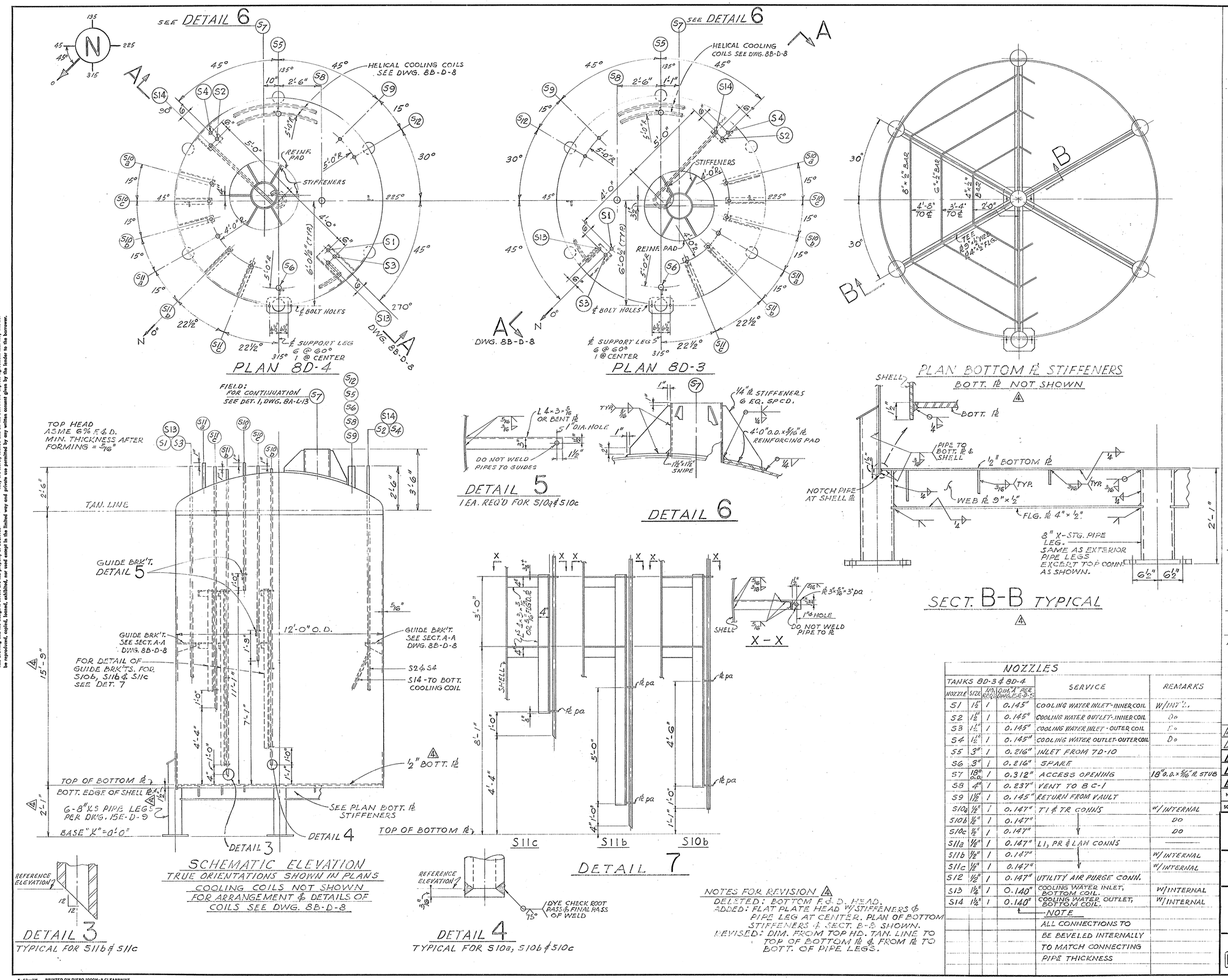

NOTES

1. DESIGN DATA:
   INTERNAL PRESSURE = 6 PSIG
   TEMPERATURE (MAX. STORAGE) = 131°F
   TEMPERATURE (STEAM OUT) = 240°F
   CORROSION ALLOWANCE = 0.07"

2. FABRICATION TO BE IN ACCORDANCE WITH ASME CODE SECTION VIII AS APPLICABLE, AND SPEC. 4413-C-2. CODE STAMP NOT REQ'D.

3. MATERIAL:
   SHELL & HEADS ~ PLATE A-240 TP-304L
   INTERNAL ATTACHMENTS ~ A-240 TP-304L
   EXTERNAL SUPPORTS ~ TP-304 OR 304L
   PIPE ~ A-312 TP-304L SEAMLESS

   ADDITIONAL MATERIAL TESTING PER SPEC. 4413-C-2, PAR. 3.2 IS REQUIRED.

4. INSPECTION AND TESTING:
   (a) VESSEL TO BE 100% X-RAYED PER SPEC. 4413-C-2.
   (b) VESSEL TO BE HELIUM LEAK TESTED IN SHOP PER SPEC. 4413-C-2.
   (c) VESSEL TO BE HYDROSTATICALLY TESTED IN SHOP TO 30 PSIG AT TOP.
   (d) COILS TO BE TESTED PER SPEC. 4413-C-2, PAR. 5.2.
   (e) ALL BUTT WELDS IN COILS TO BE 100% X-RAYED.

5. CONNECTIONS:
   (a) SEE DWG. 15E-D-5 FOR DET. OF STUB NOZZLES.
   (b) EXCEPT AS OTHERWISE NOTED, PIPE WALL THICKNESS SHALL CONFORM TO THE FOLLOWING:
      1" & SMALLER = SCH. 160S
      1¼", 1½" & 2" = SCH. 80S
      3" THRU 6" = SCH. 40S
   (c) SEAMLESS LONG RADIUS WELDING FITTINGS SHALL BE USED UNLESS OTHERWISE NOTED.
   (d) CONNECTION TO VESSEL TO BE PER CODE FIG. UW-16.1 (c).

6. THE USE OF BACK-UP STRIPS WHICH REMAIN IN PLACE IS NOT ACCEPTABLE. (SEE NOTE 9.)

7. SHOP PAINT: NONE

8. NAME PLATE: NONE
   PROVIDE REMOVABLE METAL IDENTIFICATION TAG FOR SHIPPING. NO ATTACHMENTS OTHER THAN THOSE SHOWN SHALL BE WELDED TO VESSEL.

9. FOR SEAMS WHICH CANNOT BE WELDED FROM BOTH SIDES, ROOT PASSES TO BE MADE BY TUNGSTEN INERT GAS PROCESS.

REFERENCE DRAWINGS

STUB NOZZLE DETAILS	15E-D-5
PIPE LEG SUPPORTS	15E-D-9
COOLING COIL DETAILS	8B-D-8

NOTES FOR REVISION 4:
COOLING COILS REVISED AND REDRAWN, (DELETED ONE FLAT COIL, ADDED 2-HELICAL COOLING COILS, REVISED SIZE AND LOCATION OF BOTTOM COIL).
REVISED LOCATION AND SERVICE FOR S1, S2, S3 & S4.
REVISED GUIDES FOR S10 & S11.
REVISED CORROSION ALLOWANCE (WAS 1/16").
ADDED S13, S14 AND REF. DWG.

NOTES FOR REVISION 1:
REVISED & RENUMBERED CONNECTIONS.
REVISED LAYOUT FOR COOLING COILS.
ADDED ORIENTATIONS & DETAILS.

NOTES FOR REVISION 2:
REVISED: LENGTH OF SUPPORT LEGS (WERE 3'-2").
INCREASED LENGTH OF INT. PIPES @ S11b & S11c.
SIZE OF S7 (WAS 24"). SIZE OF S11a (WAS 1")
PROJECTION FOR S7 (WAS 2'-6" TO T.L.)
REORIENTED S7 & S11c
ADDED: CONN. S12. REINF. PAD & STIFFENERS @ S7.
GUIDE CLIP @ S11c

NOTES FOR REVISION 4:
DELETED: BOTTOM F.&D. HEAD.
ADDED: FLAT PLATE HEAD W/STIFFENERS & PIPE LEG AT CENTER. PLAN OF BOTTOM STIFFENERS & SECT. B-B SHOWN.
REVISED: DIM. FROM TOP HD. TAN. LINE TO TOP OF BOTTOM ℞ & FROM ℞ TO BOTT. OF PIPE LEGS.

NOZZLES

TANKS 8D-3 & 8D-4					
NOZZLE	SIZE	NO. REQ'D	DIM. "A" PER DWG. 15E-D-5	SERVICE	REMARKS
S1	1½"	1	0.145"	COOLING WATER INLET - INNER COIL	W/INT'L.
S2	1½"	1	0.145"	COOLING WATER OUTLET - INNER COIL	Do
S3	1½"	1	0.145"	COOLING WATER INLET - OUTER COIL	Do
S4	1½"	1	0.145"	COOLING WATER OUTLET - OUTER COIL	Do
S5	3"	1	0.216"	INLET FROM 7D-10	
S6	3"	1	0.216"	SPARE	
S7	18" O.D.	1	0.312"	ACCESS OPENING	18" O.D. × 5/16" ℞ STUB
S8	4"	1	0.237"	VENT TO 8C-1	
S9	1½"	1	0.145"	RETURN FROM VAULT	
S10a	½"	1	0.147"	T1 & TR CONNS	W/INTERNAL
S10b	½"	1	0.147"	↓	DO
S10c	½"	1	0.147"	↓	DO
S11a	½"	1	0.147"	L1, PR & LAH CONNS	
S11b	½"	1	0.147"	↓	W/INTERNAL
S11c	½"	1	0.147"	↓	W/INTERNAL
S12	½"	1	0.147"	UTILITY AIR PURGE CONN.	
S13	1¼"	1	0.140"	COOLING WATER INLET, BOTTOM COIL.	W/INTERNAL
S14	1¼"	1	0.140"	COOLING WATER OUTLET, BOTTOM COIL.	W/INTERNAL
				NOTE	
				ALL CONNECTIONS TO	
				BE BEVELED INTERNALLY	
				TO MATCH CONNECTING	
				PIPE THICKNESS	

No.	DATE	REVISIONS	BY	CH'K	DFTG. SUPVR.	ENG'R	CHIEF ENG'R	CLIENT
4	3/18/66	SEE REVISION NOTE #4 AT LEFT	LSH	N	RDN			
3	2/8/66	SEE REVISION NOTE #3 ABOVE	LSH	N	RDN			
2	11/16/64	SEE REVISION NOTES ABOVE	N	EDE	RDN			
1	7/29/64	SEE REVISION NOTES ABOVE. ISSUED FOR COMPLETION OF DESIGN	N	N	RDN			
	10-4-63	ISSUED FOR QUOTATIONS	EDE		RDN			

SCALE | DESIGNED | DRAWN EDE

BECHTEL CORPORATION
SAN FRANCISCO

CONSULTANTS OF SPECIAL ASSOCIATES
WHITTIER, CALIFORNIA

CON-ED WASTE STORAGE TANKS
8D-3 & 8D-4

JOB No.	DRAWING No.	REV.
4413	8B-D-4	4

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