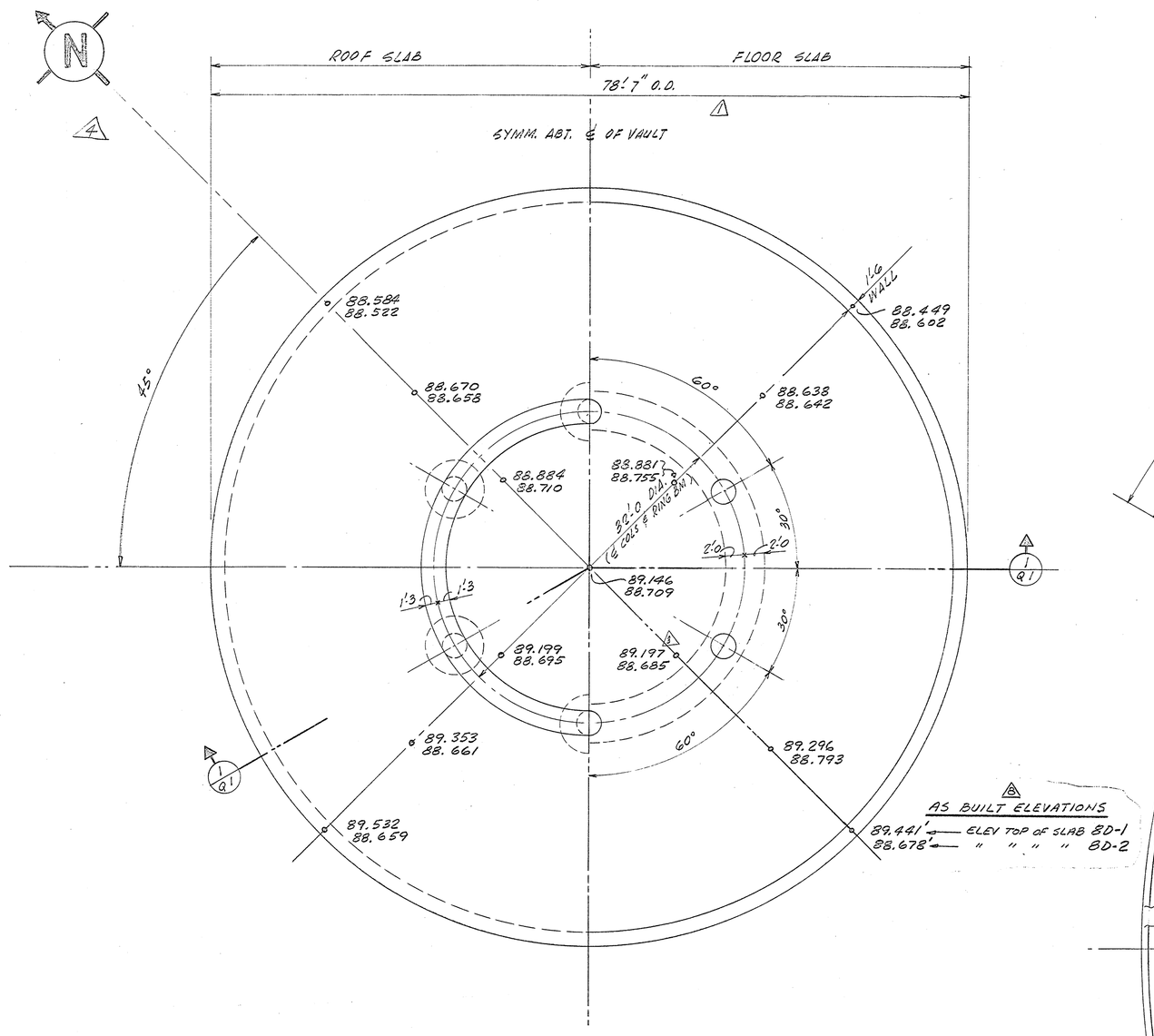
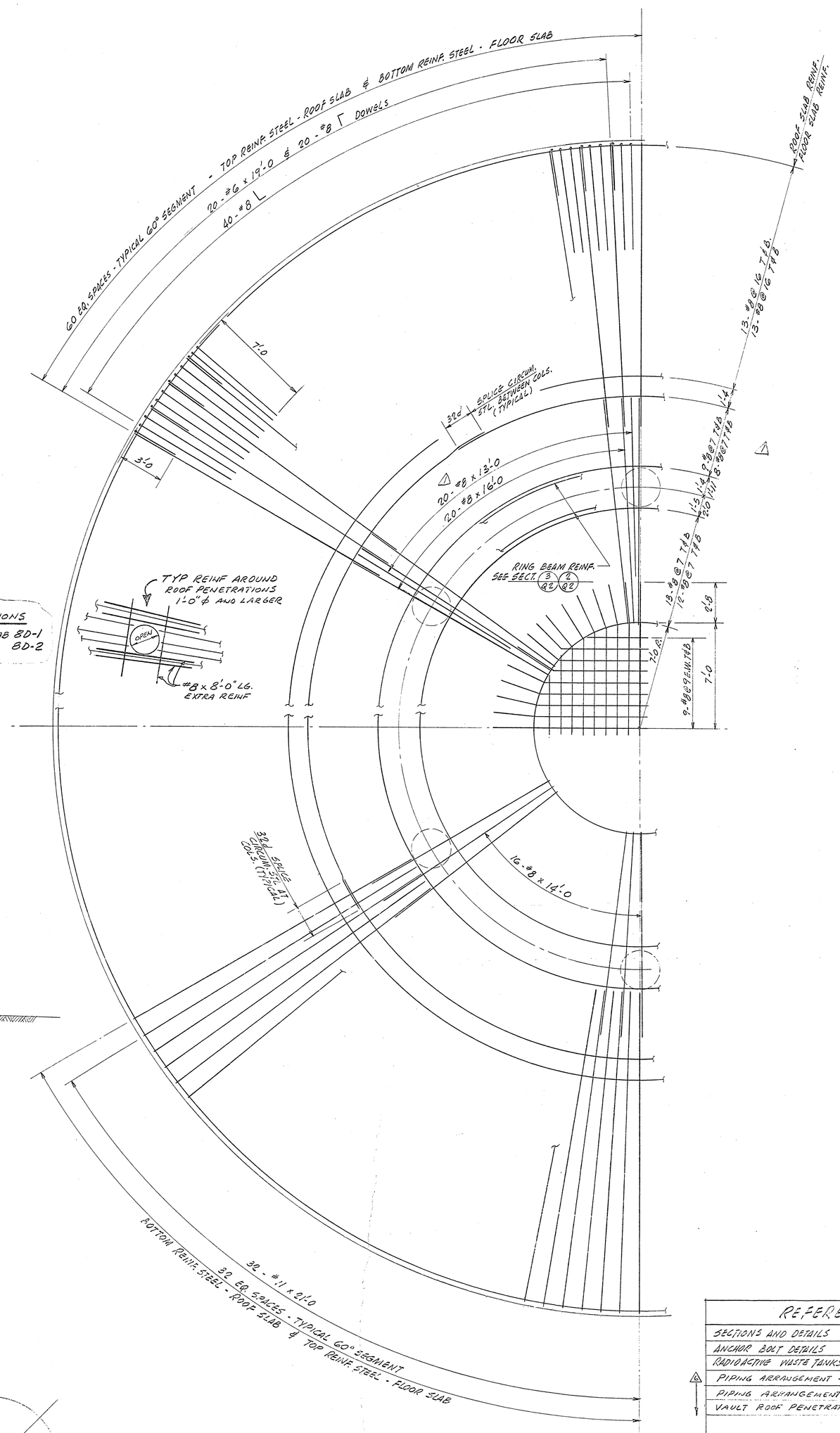
SIZE A



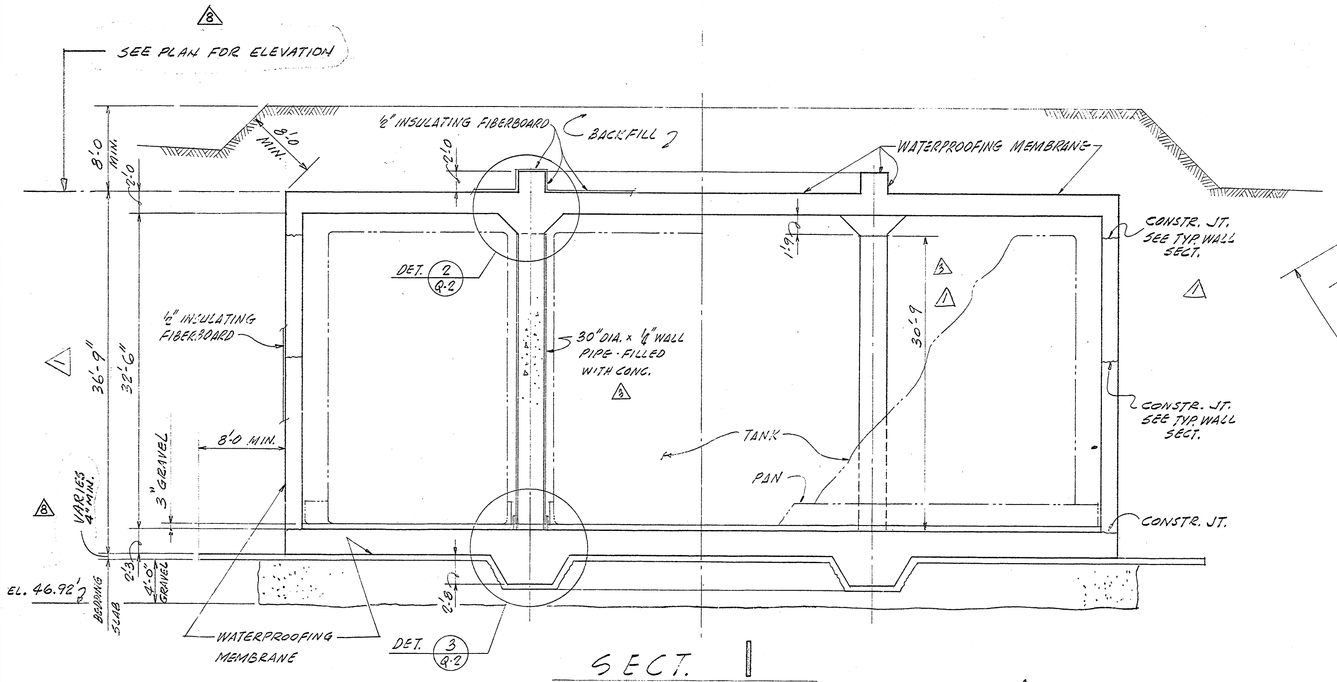
PLAN OF VAULT

½ = 1'-0



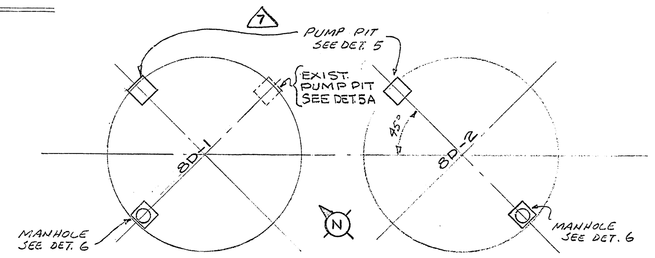
REINFORCING PLAN

½ = 1'-0



SECT. 1

½ = 1'-0



KEY PLAN

FOR ROOF PENETRATIONS SEE DWGS 8A-L-1, 2 & 3

LIST OF MATERIAL *

	ITEM	QUAN.	DESCRIPTION	ORDER Nº
△1	1	1333	CU. YDS - CONCRETE (3750 PSI - TYPE F) FOR VAULT	FIELD
	2	86	CU. YDS - CONCRETE (2500 PSI) FOR BEDDING SLAB	FIELD
	3	1-LOT	REINFORCING STEEL A-432 △1 — Nº 3 / 6 / 8 / 11; LBS △2 33360 / 154700 / 61600	15Q-5
	4	5000	LBS - ½" ϕ SPIRAL - 3" PITCH △1 △2 (FIELD COUPLE - HOT ROLL)	15Q-5
△5	5	82	CU. YDS PEA GRAVEL PER NOTE 13	FIELD
△3	6	6	31" O.D. x ½" THICK x 8" HIGH STEEL RING	FIELD
	7	6	30" DIA. PIPE COLUMNS - ½" THK WALL - 30.9 LB.	FIELD
	8	1-LOT	WATERPROOFING MEMBRANE - ("PERMACEL" 306 POLYVINYL CHLORIDE SHEET) 8 MIL x 38" WIDE	FIELD
	9	1-LOT	½" THICK INSULATING FIBERBOARD	FIELD
	10	1-LOT	ADHESIVE - FOR APPLICATION OF WATERPROOFING MEMBRANE AND FIBERBOARD	FIELD
	11	1-LOT	4 LB SOFT LEAD FLASHING	FIELD
△6	12	1-EA.	C.S. HATCH FRAME & COVER FRAME PER DET. 5	FIELD
△6	13	1-EA.	C.S. MANHOLE FRAME & PLUG FRAME PER DET. 6	FIELD

* LIST OF MATERAL SHOWN ABOVE IS FOR ONE VAULT. TWO VAULTS ARE REQUIRED.

GENERAL NOTES

1. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATION 4413-Q-2
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT AGE OF 28 DAYS AS INDICATED ON LIST OF MATERIAL.
3. △ CONCRETE COVERAGE (CLEAR) FOR MAIN REINFORCEMENT UNLESS OTHERWISE NOTED.
   a) CONCRETE POURED AGAINST EARTH = 3"
   b) CONCRETE POURED AGAINST CONSTRUCTION SLAB = 2"
   c) FORMED SURFACES EXPOSED TO WEATHER OR GROUND = 2"
   d) FORMED SURFACES NOT EXPOSED TO WEATHER OR GROUND = 1½"
4. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1-INCH CHAMFER.
5. ELEVATIONS OF FOUNDATIONS AND STRUCTURES ARE GIVEN TO A DATUM OF 100.00' WHICH IS THE PLANT DATUM. ACTUAL ELEVATION OF PLANT DATUM IS 1415.00'.
6. ALL ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH DRAWING D-Q-510. ALL ANCHOR SLEEVES SHALL BE FILLED WITH GROUT.
7. △ CONSTRUCTION JOINT DETAILS (SEE SPEC. Q-2 PARAGRAPH 10.7) AND LOCATIONS AS SHOWN ARE CRITICAL AND SHALL NOT BE CHANGED EXCEPT BY ENGINEERING. BOTTOM SLAB, WALLS, AND TOP SLAB SHALL EACH BE POURED IN COMPLETE UNITS WITHOUT CONSTR JOINTS EXCEPT AS DETAILED.
8. FOR THE CONSTRUCTION JOINT BETWEEN WALL AND ROOF, THE CONSTRUCTION JOINT TREATMENT AS DETAILED IN SPEC. Q-2 SHALL BE APPLIED FOR 7-DAYS AFTER THE WALLS ARE POURED, AND REPEATED FOR 2 DAYS IMMEDIATELY BEFORE THE ROOF IS POURED.
9. CURING SHALL BE ACCOMPLISHED BY THE USE OF WATER SPRAY OR WET BURLAP KEEPING THE CONCRETE CONTINUOUSLY WET FOR SEVEN DAYS AFTER PLACEMENT. NO CURING COMPOUND MAY BE USED. HEAVY LOADS MUST NOT BE PLACED ON OR MOVED ACROSS SLABS UNTIL CURING IS COMPLETED.
10. △2 FOR WATERPROOFING CONSTRUCTION SEE NOTE 14.1 of SPEC. Q-3.
11. △ ALL GROUT SHALL BE COMPOSED OF THE FOLLOWING MIX AND PROPORTIONS

1 PART VIBRO-FOIL (A.C. HORN CO.)	100 LBS.	MAKE 3 CU. FT.
1 PART PORTLAND CEMENT	1 SACK	
1 PART COARSE CLEAN SAND	100 LBS	
1½ PARTS OF ¼" PEA GRAVEL	150 LBS	

SEE DWG. 8A-Q-2 FOR CONT. GENERAL NOTES.

No.	DATE	REVISIONS	BY	CHK	DFTG SUPVR.	ENG'R	CHIEF ENG'R	CLIENT
△	10/10/66	CHANGED POSITION OF PUMP PIT FOR VAULT BD-1 ON KEY PLAN	S.F.					
△	8/24/66	ADDED KEY PLAN, REINF. DET & ROOF OPEN., REV. ANGLE & INSERT 12 x 1.5 to 4/M.	WEH	WEH	WEH			
△	7/7/66	ADDED ITEM #5 @ 4/M	RT	WEH	WEH			
△	6/1/66	ADDED NORTH ARROW REV. 4/M	HT	WEH	WEH			
△	3/16/66	REV. & REVISED HOLD DN 4/M. REV. COLS.	GCW	WEH	WEH			
△	1/7/66	REV. 4/M & ADDED GENERAL NOTES	HT	WEH	WEH			
△		REV. HEIGHT & O.D. OF VAULT & REBAR SPACING 2/M & GENERAL NOTES & ISSUED FOR CONSTR.	HT	WEH	WEH			
△	7/19/65	ISSUED FOR APPROVAL	HAL	HAL	WEH			

SCALE AS NOTED — DESIGNED — DRAWN HAL

BECHTEL CORPORATION

NEW YORK — SAN FRANCISCO — LOS ANGELES

ENGINEERING BY

BECHTEL ASSOCIATES

NUCLEAR FUEL SERVICES, INC.
SPENT FUEL PROCESSING PLANT

PLANS
VAULT FOR BD-1 & BD-2

BECHTEL — JOB No. 4413 — DRAWING No. 8A-Q-1 — REV. 8

REFERENCE DRAWINGS

SECTIONS AND DETAILS	8A-Q-2
ANCHOR BOLT DETAILS	D-Q-510
RADIOACTIVE WASTE TANKS BD-1 & BD-2	8A-D-3
△ PIPING ARRANGEMENT - PROCESS PIPING	8A-L-1
PIPING ARRANGEMENT - UTILITY PIPING	8A-L-2
VAULT ROOF PENETRATIONS	8A-L-3

No.	DATE	REVISIONS	BY	CHK	DFTG SUPVR.	ENG'R	CHIEF ENG'R	CLIENT
△	1/10/66	ADDED AS BUILT ELEVATIONS TO PLAN. REVISED SEC. 1 TO SUIT.	WEH					

STATE OF NEW JERSEY — RAY L. WALKER — REGISTERED PROFESSIONAL ENGINEER — No. 20118

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