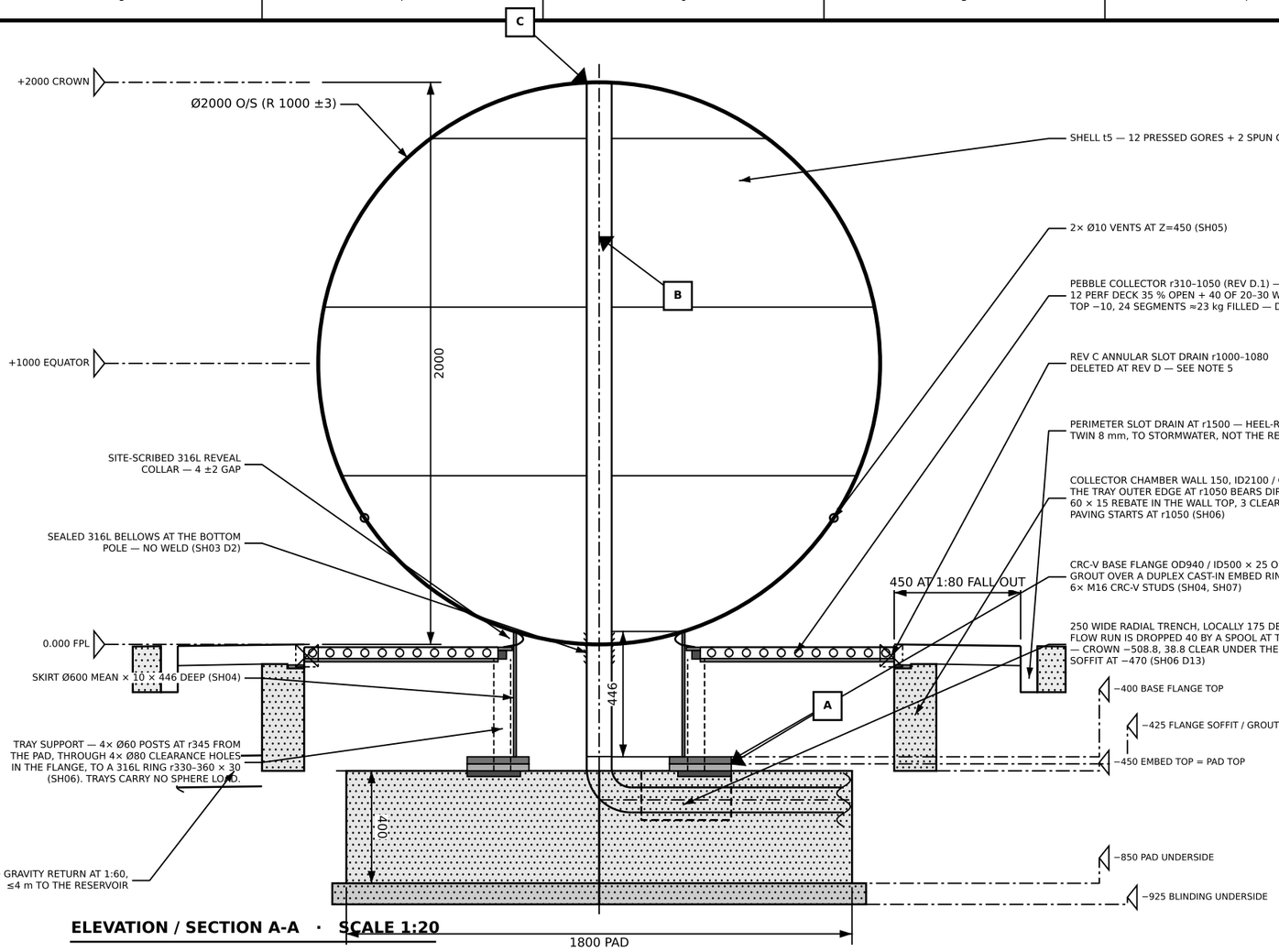
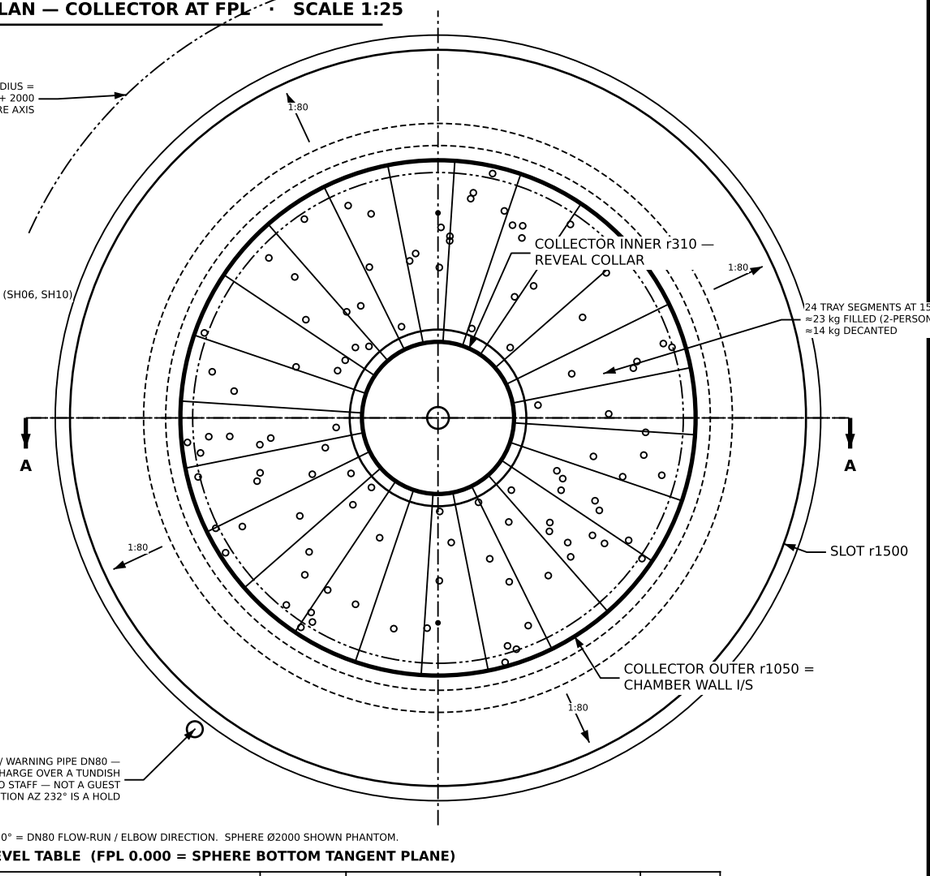


ELEVATION / SECTION A-A · SCALE 1:20



PLAN — COLLECTOR AT FPL · SCALE 1:25

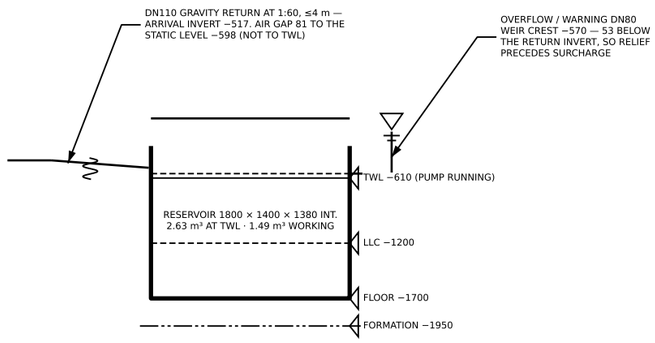
AZ 0° = DN80 FLOW-RUN / ELBOW DIRECTION. SPHERE Ø2000 SHOWN PHANTOM.

LEVEL TABLE (FPL 0.000 = SPHERE BOTTOM TANGENT PLANE)

LEVEL	mm	LEVEL	mm
Sphere crown / weir plane	+2000	Pad underside	−850
Sphere equator	+1000	Blinding underside	−925
FPL = paving = bottom tangent	0.000	DN110 return arrival invert	−517
Pebble tray top	−10	Reservoir overflow weir crest	−570
Chamber wall top / paving u/s	−70	Float backstop / static level	−585 / −598
Base flange t25 (top / soffit)	−400/−425	Reservoir TWL (PUMP RUNNING)	−610
Epoxy grout bed 25 (top / u/s)	−425/−450	Low-level lockout LLC	−1200
Embed top = pad top = chamber floor	−450	Reservoir floor / formation	−1700 / −1950

TRAY BEARING REBATE FACE −85. DN80 FLOW-RUN CROWN −508.8 / INVERT −597.7 (SH06 D13). RESERVOIR PER REV D.1.

RESERVOIR & GRAVITY RETURN — LEVELS · SCALE NTS



DRAWING LIST

SHEET	TITLE
SPA-F-SH01	GENERAL ARRANGEMENT / ASSEMBLY
SPA-F-SH02	SHELL FABRICATION — GORES, CAPS, WELD MAP
SPA-F-SH03	RISER ASSEMBLY & PENETRATIONS
SPA-F-SH04	SKIRT, BASE FLANGE AND ANCHORAGE
SPA-F-SH05	SCHEDULES — LOADS, TOLERANCES, FINISH, BOM
SH06–SH07	FOUNDATION; CONCEALED ANCHORAGE DETAIL
SH08–SH14	RESERVOIR, PLANT, P&ID, ELECTRICAL, SAFETY
SPA-F-SH15	LOGO ENGRAVING — ARTWORK, POSITION AND DEPTH
SH30–SH38	PART DRAWINGS: EXPLODED ASSEMBLY, P-01 TO P-15

GENERAL NOTES

1. SPHERE BOTTOM TANGENT PLANE = FINISHED PAVING TOP = FPL 0.000. All levels on this set are relative to FPL, positive up. Sphere centre +1000, crown weir +2000.
2. ALL SUPPORT IS CONCEALED BELOW GRADE: sphere → internal doubler collar → 446 deep Ø600 skirt → CRC-V base flange at −400 → 25 epoxy grout → duplex cast-in embed ring at −450 → 6× M16 CRC-V studs → C35/45 pad 1800×1800×400 (SH04, SH06, SH07).
3. THE COLLECTOR TRAYS ARE STRUCTURALLY INDEPENDENT OF THE SPHERE. The inner tray edge is carried on 4× Ø60 posts rising from the pad at r345, through Ø80 clearance holes in the base flange, to a 316L ring r330–360 × 30 (top −22). The trays carry NO sphere load and the sphere lifts out without disturbing them. Skirt O/S r305 to ring I/S r330 = 25 CLEAR — do not reduce.
4. Film water is caught in the PEBBLE COLLECTOR ANNULUS r310–1050 (REV D.1, was r310–900), top −10, over the covered collector chamber (SH06), in 24 removable segments at 15°, ≈23 kg filled (two-person) / ≈14 kg after decanting, the lift procedure; only. The coherent inertial film transitions at θ = 91.2°, not the 150–165° carried at Rev C/D — at the equator the film's own weight is 3.356 Pa against only 0.142 Pa of capillary retention. It does not fly off (Bond number on thickness 0.016) but adheres and drips down the underside, so WATER REACHES GRADE ACROSS r ≈ 0 → 1000.
5. REV C ANNULAR SLOT DRAIN AT r1000–1080 IS DELETED. In cling mode water is shed with INWARD radial velocity and lands well inside the sphere footprint, so the Rev C slot caught essentially nothing.
6. Paving is graded OUTWARD 1:80 from r1050 (0.000 ±2) — NOT from r900 — to the perimeter twin-8 mm slot drain at r1500 (−5.6). The perimeter slot discharges to stormwater / soakaway, NOT to the reservoir. REV D.1: the collector chamber is ID 2100 / OD 2400, so the tray outer edge AT r1050 lands DIRECTLY on the chamber wall top through a 60 × 15 bearing rebate (bearing face −85), 3 CLEAR all round. The Rev D rebate spanning r950–1050 was an artefact of inconsistent chamber data and is DELETED.
7. PALM EXCLUSION: no coconut palm within a fall radius of the sphere (palm height + 2000) unless a documented de-nutting regime is in the resort O&M — a 1.2 kg nut from 10 m is 118 J against a 0.5 J denting threshold (SH02).
8. Overflow / warning pipe DN80, weir crest −570 — 53 mm BELOW the DN110 return arrival invert (−517), so relief always precedes surcharge. Discharges over a tundish conspicuous to STAFF (plantroom or beside the hatch), never a guest circulation surface, so a stuck make-up valve is seen — consented destination (design basis §12 O12); air gap ≥2× pipe ID. Discharge position is a HOLD (Rev G).
9. Paving over the anchor zone is SAND-SET OR ON ADJUSTABLE PEDESTALS — MORTAR BEDDING IS PROHIBITED, so the assembly stays recoverable.
10. FABRICATION TO EN 1090-2, EXECUTION CLASS EXC2 (from CC2, EN 1990). Weld quality ISO 5817 level B on visible shell butts, C elsewhere.
11. WELD SYMBOLS ARE AWS A2.4 — ARROW SIDE BELOW THE REFERENCE LINE. One system throughout; ISO 2553 is not mixed in. Tolerances ISO 2768-mK.
12. PIECE MARKS P-01–P-15 (SH05) on every part before release: low-stress vibro-etch or laser, concealed face. NO HARD STAMPING.
13. Design working life 50 years, consequence class CC2. Loads, stability, tolerances, finish, NDE and BOM per SPA-F-SH05.
14. Datums: A = base flange soffit, B = riser axis, C = crown weir plane.

REV D DATUM

· FPL 0.000 IS THE SPHERE BOTTOM TANGENT PLANE AND THE FINISHED PAVING TOP. Rev C's Z_FLOOR = −40 (bottom pole floating 40 above paving) is SUPERSEDED.

· ALL STRUCTURE IS BELOW −400 — nothing structural is visible.

· Reservoir levels shown for coordination; reservoir, plant and P&ID are issued separately.

REV	DATE	DESCRIPTION	BY
D	2026-08-05	CONCEALED SKIRT ANCHORAGE, RESERVOIR + PLANT, PEBBLE COLLECTOR	NX
E	2026-08-20	REV D.2 ALIGNMENT + VISUAL QA CORRECTIONS	NX
F	2026-09-03	LOGO ENGRAVING ADDED (SH15); SHEET COUNT 14 -> 15	NX
G	2026-09-05	AUDIT CLOSE-OUT: CART Ø82 f8, SLOT 24, 24 TRAYS, DN80	NX
G.2	2026-09-06	PART DRAWINGS SH30-38; SLOTS A222.5; DOUBLER R995	NX
G.3	2026-09-06	SH37 BRACKET, SH42 WELD MAP, P-16 BELLOWS; IFF	NX

SPA FOUNTAIN — B7 SPA, MALDIVES

SPA-F-SH01 — GENERAL ARRANGEMENT / ASSEMBLY

DRAWN: NaXief Eng.	CHECKED: NX 2026-09-06	APPROVED: I. NAZEEF 2026-09-06	STATUS: IFF REV G.3	
DATE: 2026-09-06	REV: G.3	UNITS: mm	SCALE: AS NOTED	A3 · SHEET 1/25

ISSUED FOR FABRICATION — REV G.3 · HOLD POINTS PER SH42

WORK TO FIGURED DIMENSIONS · ISO 2768-mK U.O.S.