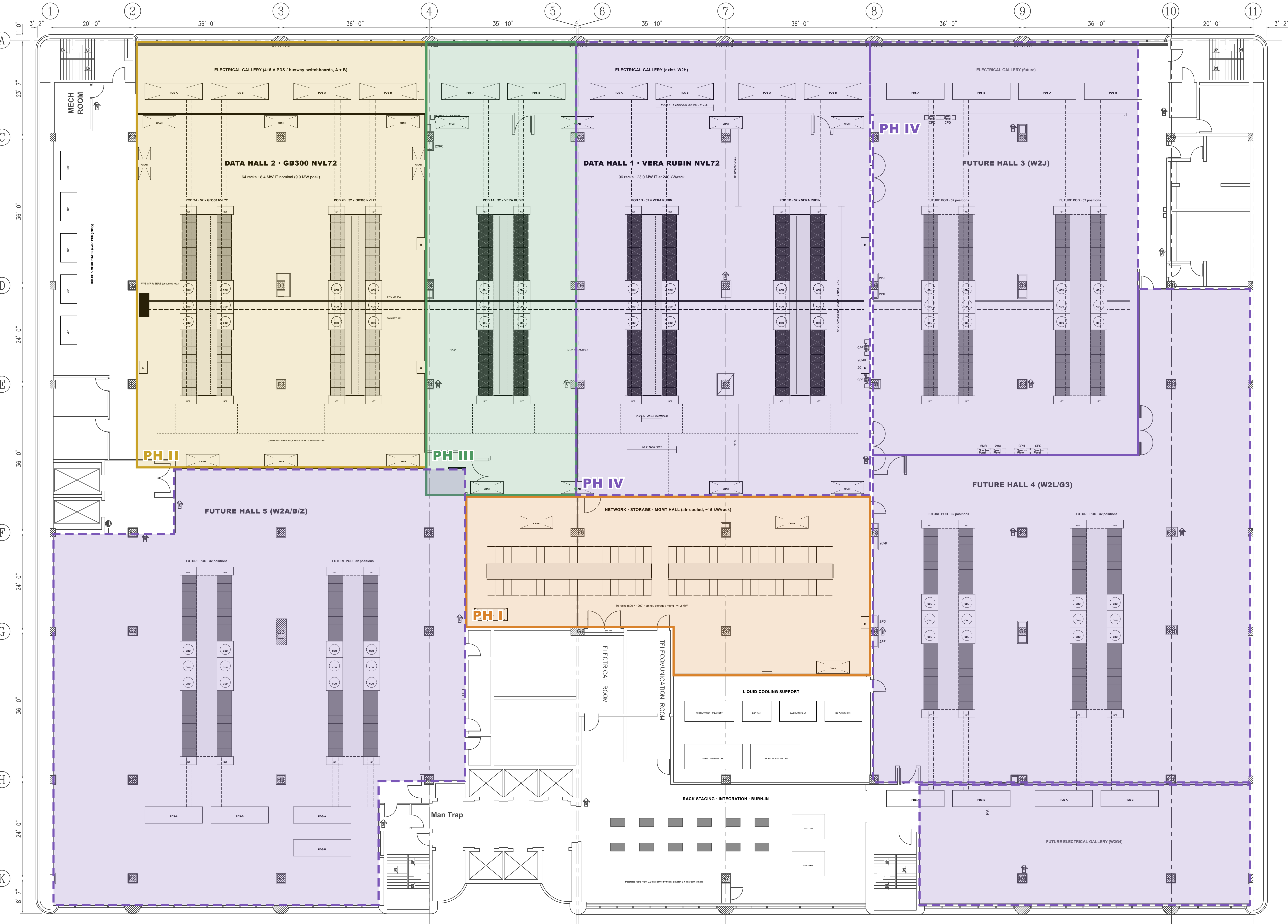


PHASED BUILD-OUT

Phase I Q1 2027 · 4.05 MW IT Phase II Q3 2027 · 9.25 MW IT Phase III Q2 2028 · 22 MW IT Phase IV ~2030 · ~93.5 MW IT (+90 MW raw)



WEST END DATA CENTER

801–809 W 4th St, Winston-Salem NC

2ND FLOOR · WHITE SPACE LAYOUT
GB300 NVL72 + Vera Rubin NVL72 (concept)

LEGEND

- Vera Rubin NVL72 rack, 600 × 1068 mm, s240 kW
- GB300 NVL72 rack, 600 × 1068 mm, 132 kW nom.
- GB300 rack – first installed (Phase II, liquid loop)
- Air-cooled IT rack 600 × 1200 (network/storage)
- Future rack position (Phase IV, ~2030)
- NET – in-row leaf/scale-out switch rack
- In-row CDU, liquid-to-liquid ≈1,800 kW (est. 1.2 × 1.2 m)
- Hot-aisle containment, doors each end
- TCS secondary manifolds (supply / return, overhead)
- Facility water (FWS) header, supply / return, overhead
- Overhead busway A / B, 415 V, per half-row
- PDS – 415 V busway distribution switchboard (A or B)
- CW CRAH / fan-wall, residual air load (≈200 kW est.)
- Adiabatic (ultrasonic) humidifier, RO water
- Overhead fibre backbone tray
- New partition (2-hr where separating electrical)

CAPACITY (IT LOAD)

Area	Racks	IT load
Hall 1 · W2F · Vera Rubin	96	23.0 MW
Hall 2 · W2C · GB300 NVL72	64	8.4 MW
Network / storage · W2E	80	≈1.2 MW
Floor capacity (all positions)	160 + 80	≈32.6 MW
Phase I – air-cooled (network)	80	≈1.2 MW
Future Halls 3–5 (dashed)	192	+46 MW*

* Phase IV: +90 MW raw from Duke Energy (~2030), ≈127 MW total

DESIGN BASIS

Every rack position is Vera Rubin-ready: 240 kW busway, CDU and TCS capacity. GB300 uses the same 600 × 1068 mm MGX/Oberon footprint, so Hall 2 can convert in place. GB300 NVL72: 132 kW nominal, ~155 kW peak; busway sized for 192 kW/rack (HPE), ~85% liquid / ~15% air (est.). Vera Rubin: up to 240 kW/rack (Gigabyte OEM sheet), 100% liquid (est.), 4 × 110 kW power shelves. Pod = 32 racks (4 × NVL72 SU of 8) + 4 NET racks + 6 in-row CDUs (N+1 at 240 kW/rack). Rows N–S between column lines so every column sits in a 24 ft cold aisle. Power: 2N. PDS-A / PDS-B per pod in the north gallery feed eight 415 V busways (A+B per half-row, ~3,000 A est.). UPS on P1: MV gear and generators on P1, P2 and Annex. Cooling: FWS 30–40 °C supply (GB300) / up to 45 °C (VR, est.) to CDUs; TCS loop to rack manifolds; CW CRAHs take residual air via hot-aisle containment + ceiling return. Humidity: 20–80% RH non-condensing; keep FWS/TCS supply above room dew point. Leak detection under every pod, CDU and header; VESDA; pre-action sprinkler. Clearances: 24 ft cold aisle (rack delivery, 4 ft min front service), 5 ft hot aisle, ≥18 ft end aisles, 24 ft PDS working space, 44 in min egress maintained. Structure: racks ≈2.0–2.2 tons each (est.). Pod averages = 281–302 psf, ≈550 psf on VR rows; 2nd-floor slab and floor must be verified by a structural engineer before fit-out.

Base: existing 2nd floor CAD (walls, columns, doors, grids). Existing CRAH markings, kW callouts, colours, tile grid and equipment removed. Concept only – not for construction. Figures marked est. are planning assumptions to confirm with NVIDIA / OEM data and the MEP engineer of record.

GRAPHIC SCALE



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