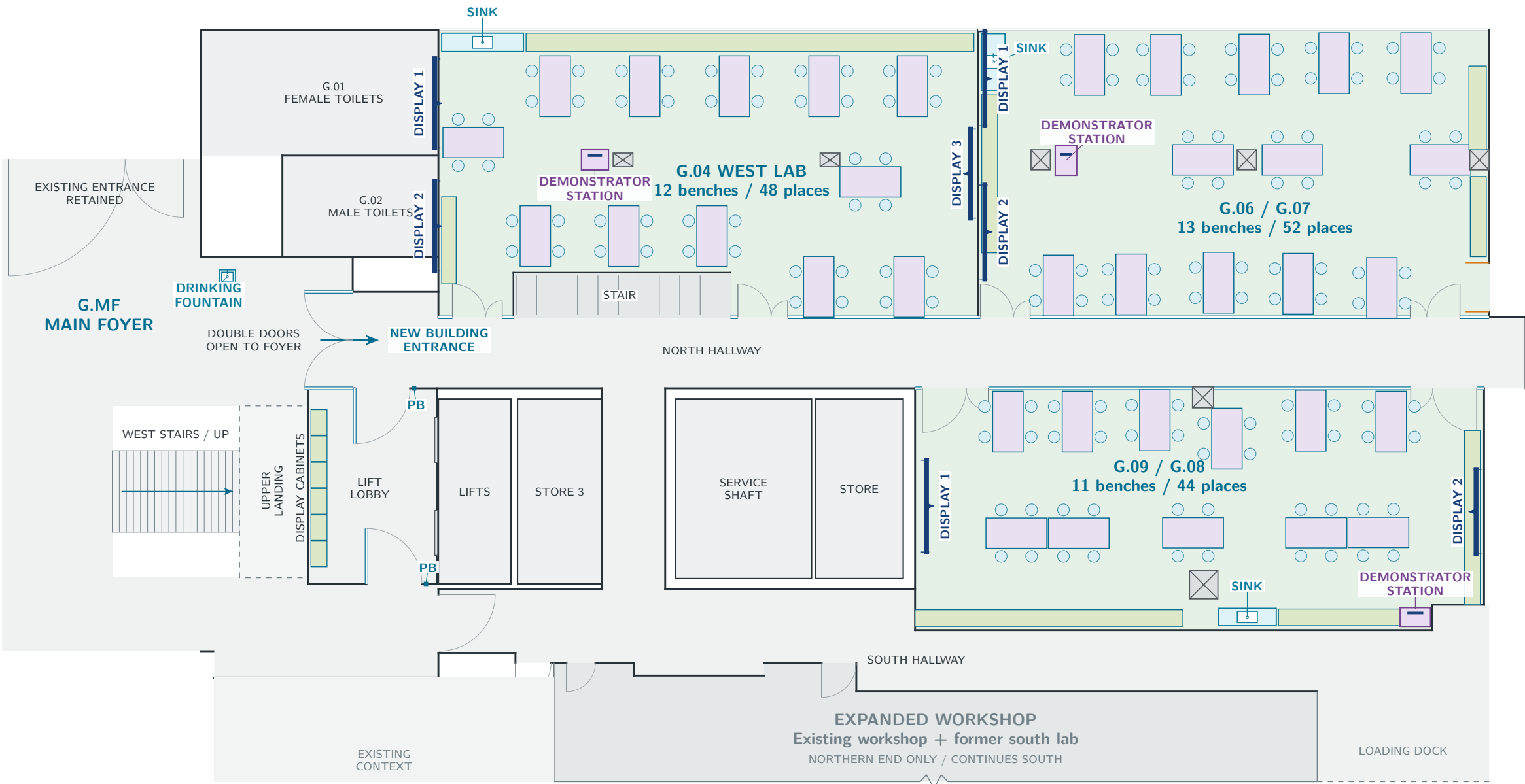


Level 0 | Laboratories, foyer and workshop frontage

Coordinated current design: foyer entrance, laboratories, circulation and partial workshop context



Current layout

36 benches, four places each: 144 illustrative places across the three labs. In G.04, south-wall low storage is removed, two tables meet the wall, and a matching table sits southeast of the east column.

Entrance and lift lobby

Double glass doors occupy the full-width opening at the west end of the north hallway and open outward into the main foyer. Both lift-lobby doors are matching single glass leaves opening into the lobby. PB marks push-button operation. The solid south-hall door and six lobby display cabinets are retained.

Teaching and storage

G.04 has two displays on the west wall and a third centred on the east wall, all facing into the lab. Dark-blue bars and arrows show screens and viewing direction; symbols are offset for clarity. Blue SINK basins and purple DEMONSTRATOR stations are distinct. The G.04 station sits west of the western column.

Drawing key

- Experiment bench / equipment
- Storage / cabinetry
- SINK / basin
- DEMONSTRATOR STATION
- Illustrative occupied space
- Structural column
- DISPLAY / arrow faces into room
- Full-height glazing
- Overhead / high-level element

Drawing basis

The ground-floor model registers an existing map to the earlier lab drawings. The 1:160 plot preserves those model proportions; dimensions are not a measured survey. The foyer, toilets and west stairs follow the newer walkthrough. Grey workshop frontage follows the combined-workshop reference; its stepped north edge is registered to the lift and laboratory corners.

Bench modules

West and south labs: approximately 1.969 x 0.984 m. East lab: approximately 0.983 x 1.966 m or 1.966 x 0.983 m, following its separate source-plan scaling. Four stools per bench; occupied clearances require review.

MODEL SCALE / metres

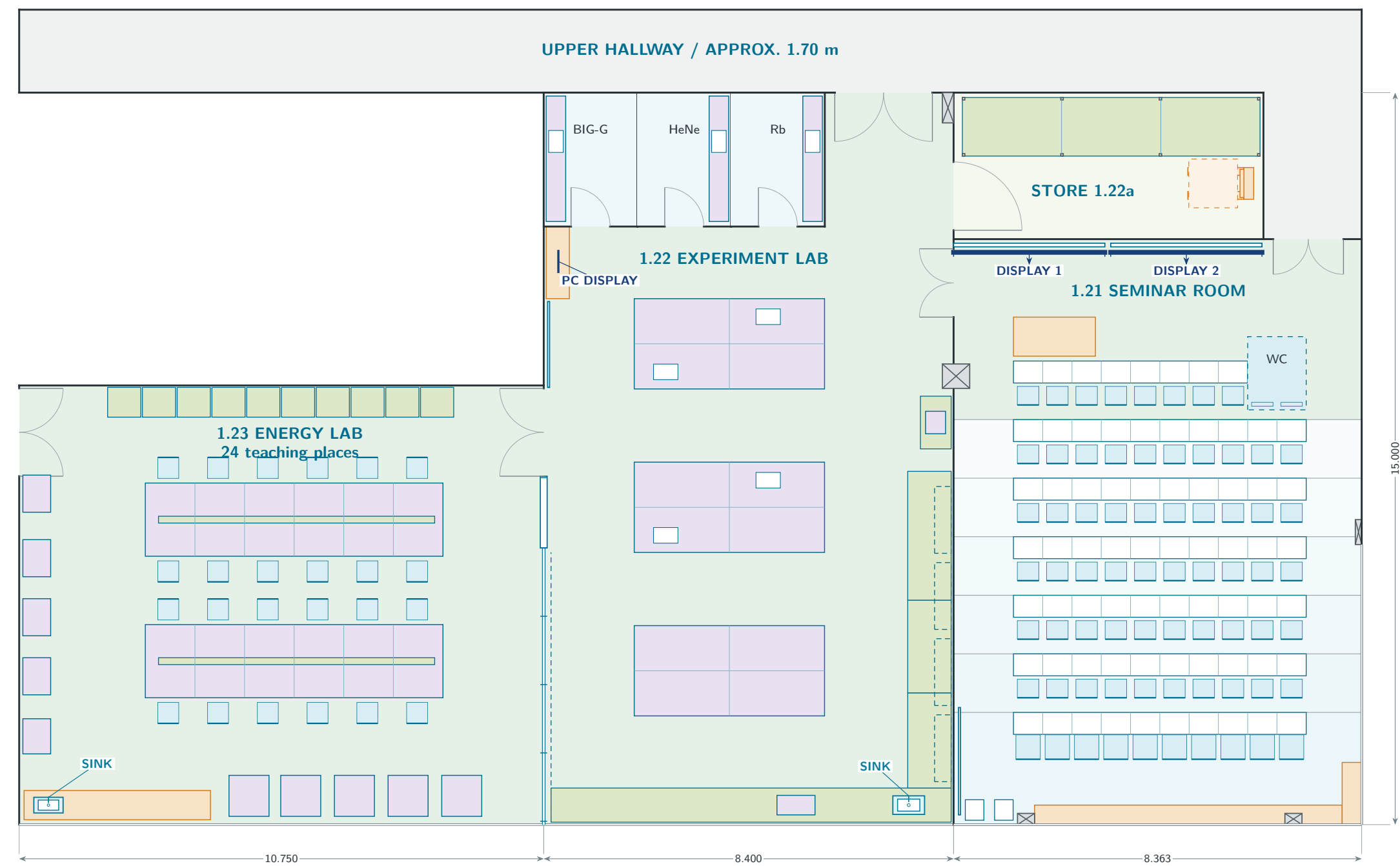


Level 1 | Coordinated floor plan

Rooms 1.21, 1.22 and 1.23 with store and upper hallway

What this sheet records

The current local walkthrough is the design source. Enlarged labs appear on sheet 03; the seminar room and store on sheet 04; shared-wall options on sheet 05.



1.21 seminar room

North boundary at 11.998 m, moved 500 mm south to enlarge the store. Six main desk rows at 1.200 m pitch plus one rear desk row. 68 desk seats, with room for another 10 as overflow rear seating. Wheelchair bay shown with two fold-downs stowed; see sheet 04.

1.22 experiment lab

Three 3.900 x 1.850 m bench islands, retained BIG-G / HeNe / Rb rooms, south and east perimeter benching. One 560 x 500 mm column spans the 1.22 / 1.21 partition south of the emergency exit. The printer station lies south of this column.

1.23 energy lab

Two 6.100 x 1.500 m islands with green computer and service partitions for power and network, plus 24 teaching places. Perimeter equipment and north-wall storage are retained. Clear glazing plus curtain is the default at the shared wall.

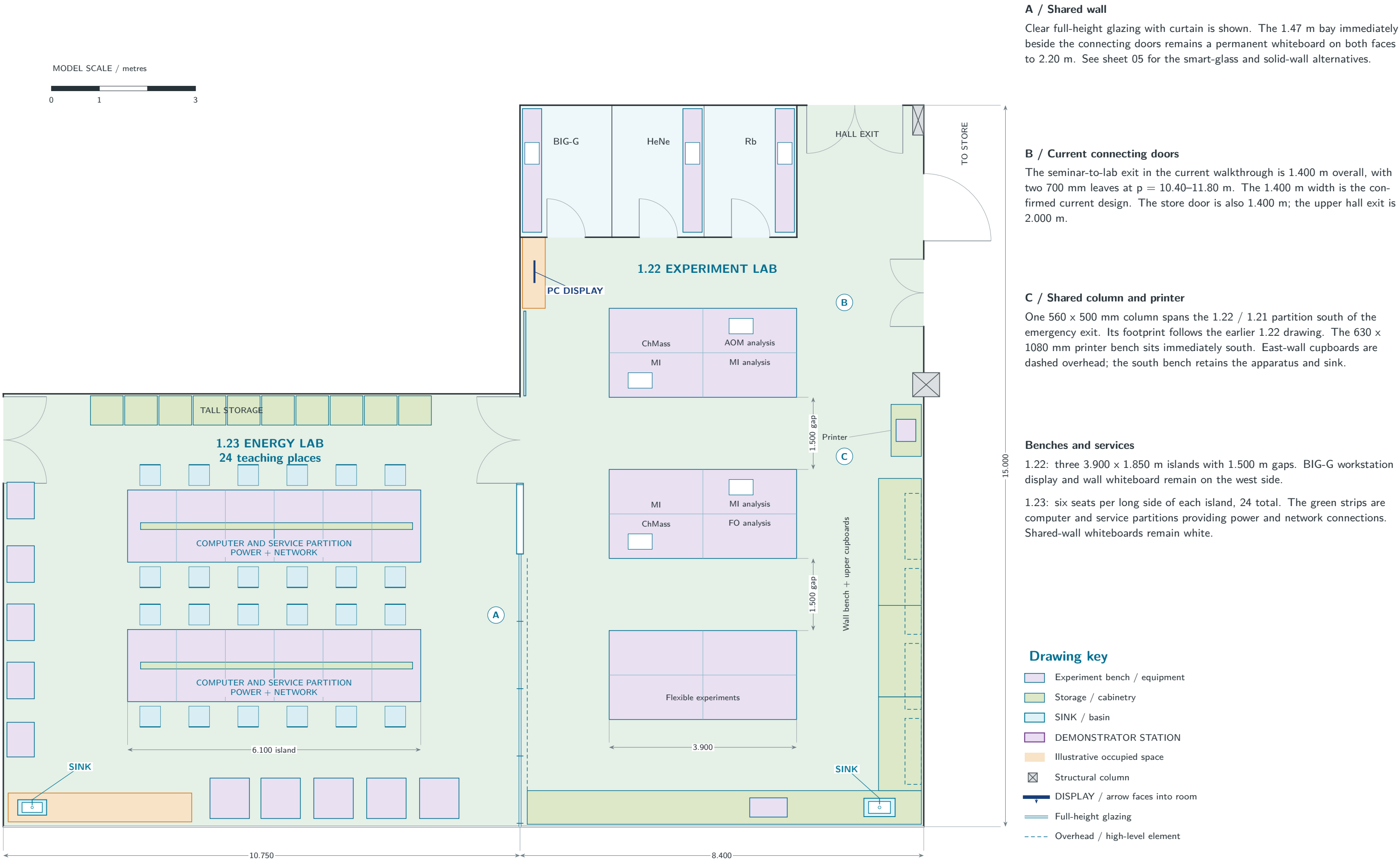
- Drawing key**
- Experiment bench / equipment
 - Storage / cabinetry
 - SINK / basin
 - DEMONSTRATOR STATION
 - Illustrative occupied space
 - Structural column
 - DISPLAY / arrow faces into room
 - Full-height glazing
 - Overhead / high-level element

Basis and orientation

Dimensions are in metres and follow the model. The upper hallway is at the top of every Level 1 sheet. Wall thicknesses and perimeter alignments remain conceptual.

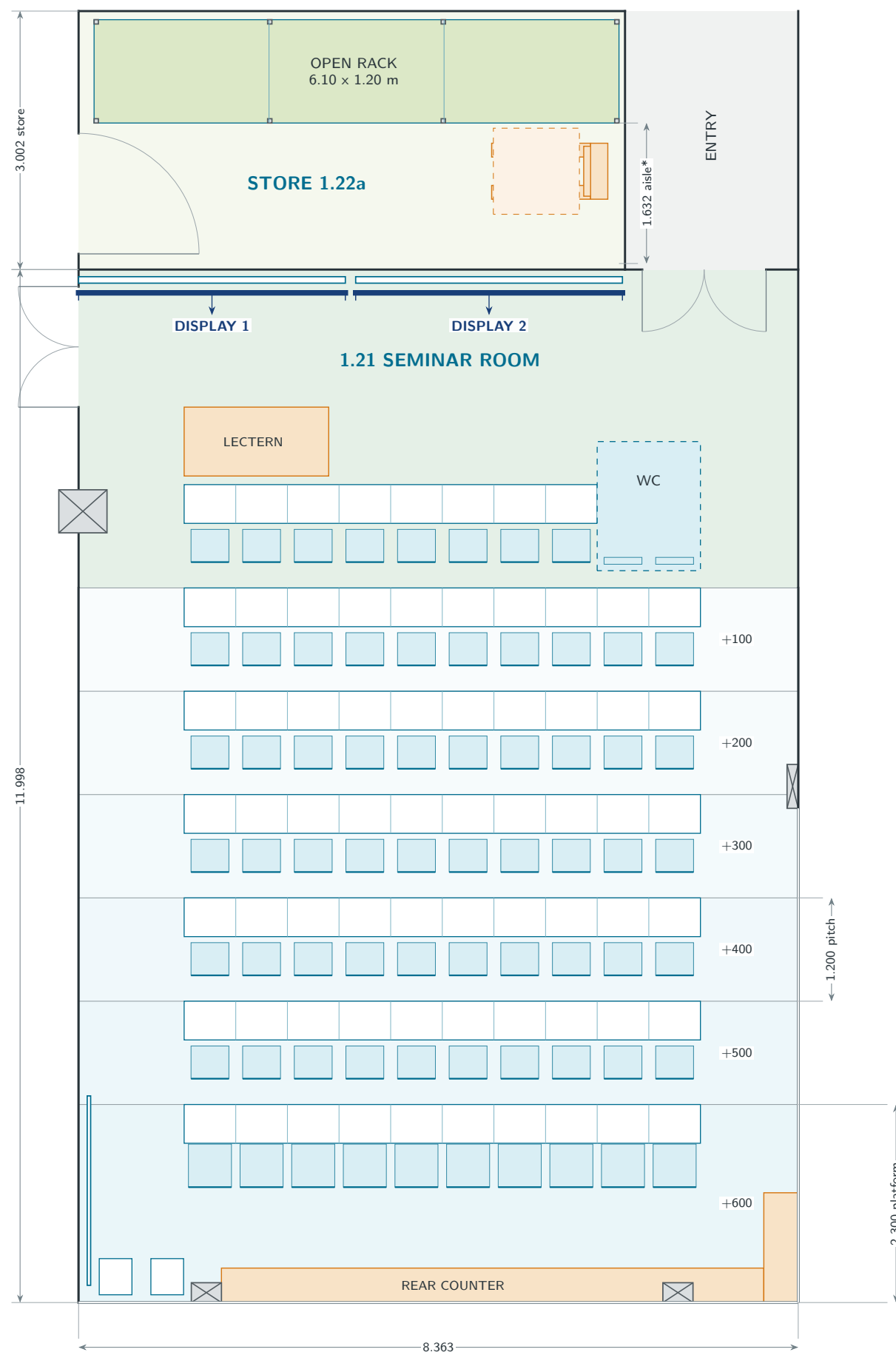
Level 1 | Laboratory detail

Current 1.22 experiment layout and 1.23 teaching layout



Level 1 | Seminar room and store

Desk-aligned tiers, rear platform, current rack and widened store door



Seating and access

68 desk seats = 8 in the first row + five rows of 10 + 10 at the rear desk. Two fold-downs can occupy the wheelchair bay (70 seats). With the fold-downs stowed, the illustrated occupied mode has 68 desk users + one wheelchair user (69 people). Room for another 10 as overflow rear seating (see inset); 78 seats plus the wheelchair user in that mode.

Tier and rear-platform geometry

Six 100 mm rises reach the +600 mm rear platform. Each raised tier begins at its desk front; the first row stays at floor level. Desk depth is 450 mm and the row pitch is 1.200 m. The rear platform is 2.300 m deep. Ceiling is 3.000 m above level floor, leaving 2.400 m above the rear platform.

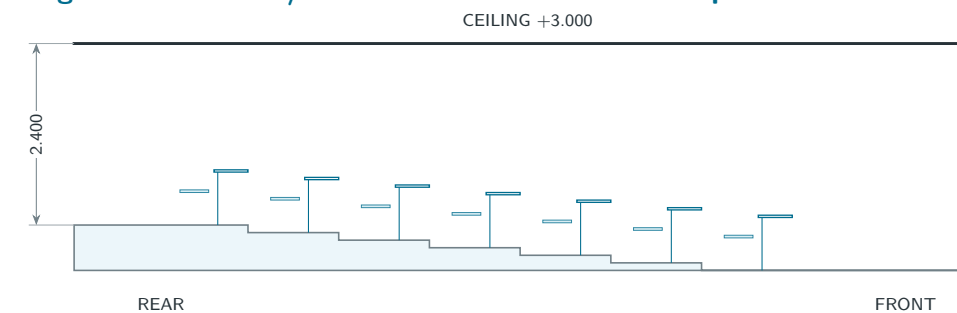
Store / * nominal aisle before parked equipment

The single north rack is 6.10 m long x 1.20 m deep and meets the east inside wall face. The rack-to-south-wall clear aisle is 1.632 m before the parked lift/load is included. Store door: 1.400 m, south hinge retained. The hand lift and 1 m load are illustrative; the parked load reduces the local aisle to about 0.57 m.

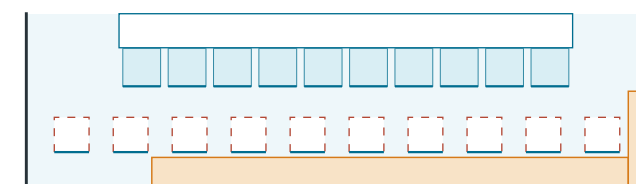
Teaching and rear fittings

Two 3.10 m teaching screens, with a 120 mm gap, cover paired over/under boards at the north wall. Permanent rear whiteboard on the west wall. Rear counter is 400 mm deep with a short east return; two five-chair stacks remain at the west end.

Longitudinal section / schematic furniture at model positions



Optional overflow / rear plan inset at 1:100



Ten extra loose chairs

Dashed red chairs have 700 mm-high seats, no desks, and extend into both rear aisles at 780 mm centres. Stacks are removed in this mode. The 79-person occupied scenario is illustrative; rear circulation is restricted.

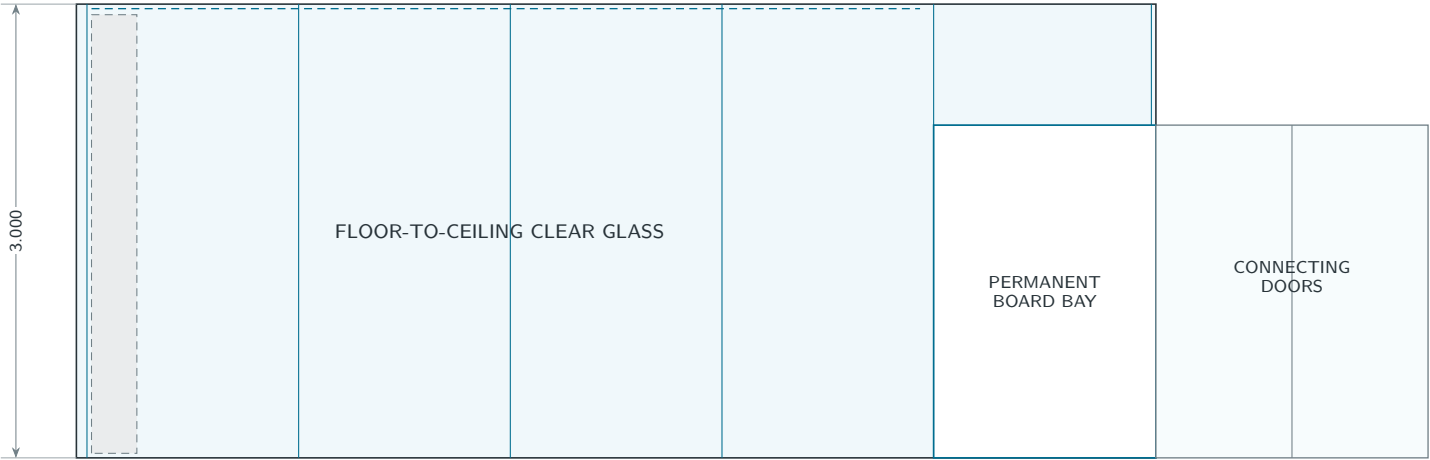
MODEL SCALE / metres



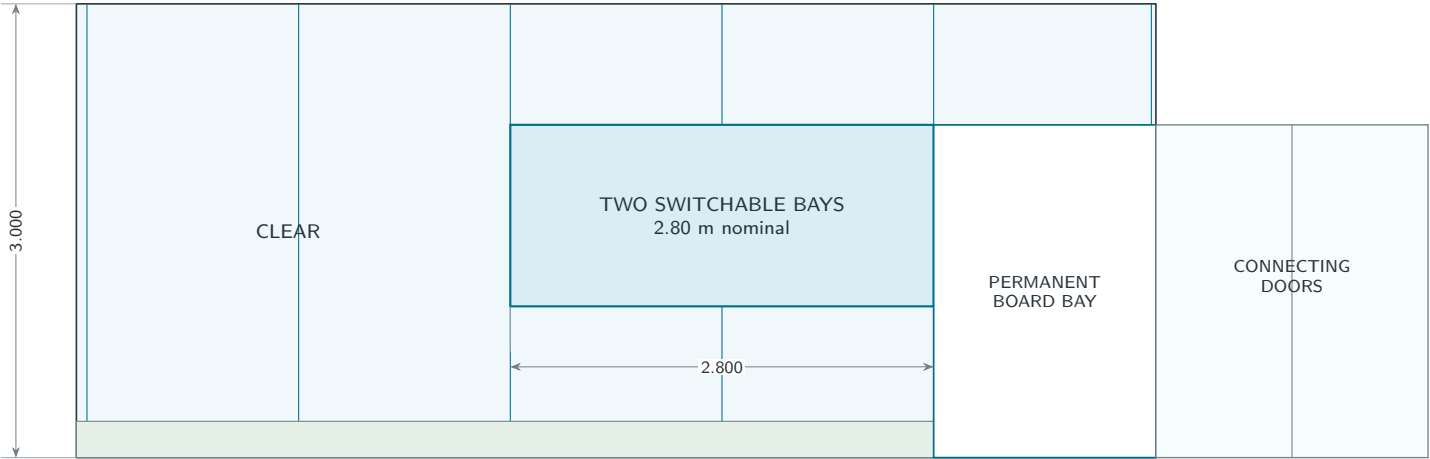
Level 1 | Shared-wall options

1.22 / 1.23 partition: plan relationship and interior elevations

A / Clear glass + full-height curtain



B / Smart glass



C / Solid wall + whiteboards



Plan relationship

The options occupy the same shared-wall line. The permanent 1.47 m whiteboard bay lies directly south of the 1.800 m double doors. It remains on both faces to the 2.20 m door head in every option. Clear glazing remains above that bay in the glazed options.

Clear-glass option / walkthrough default

Clear bays run from floor to the 3.00 m ceiling, with no solid plinth. The full-height curtain runs along the clear bays and stops before the permanent board. Curtain shown stacked at the end; track shown dashed.

Smart-glass option

Only the next two bays south of the permanent board switch: 2.80 m nominal width, from 1.00 m handle height to the 2.20 m door head. All surrounding glazing remains clear. This model option retains a 240 mm base plinth.

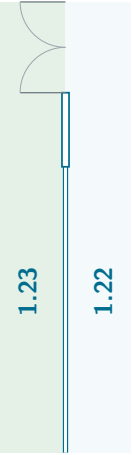
Solid-wall option

Full-height solid partition with a 5.45 m-long whiteboard on each face, plus the permanent board bay beside the door. The three options are alternatives; the drawing does not combine their construction.

Shared-wall plan strip / 1:150

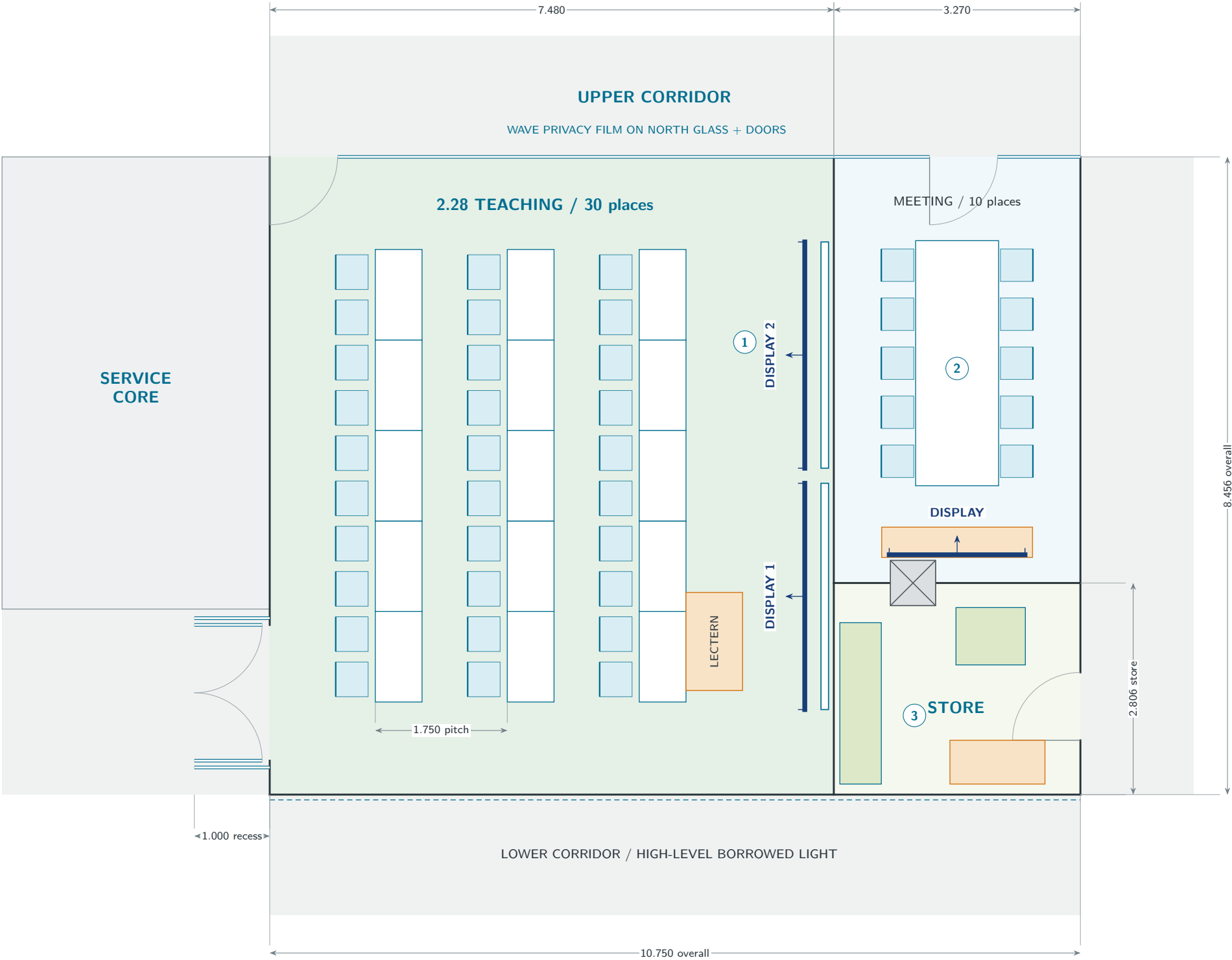
Reading these elevations

Horizontal direction is from the south end of the wall (left) toward the connecting doors (right). Heights and bay divisions follow the model; frame and board mechanisms remain conceptual.



Level 2 | Teaching, meeting and store

Room 2.28: partition, current desk runs, lectern and AV fittings



Plan basis

Geometry follows the current Level 2 walkthrough, including the updated lectern. Desks, chairs and door swings are shown at model size. Dimensions are in metres.

1 / Teaching room

Three 6.00 m desk runs at 1.750 m pitch provide 30 places. Fifteen 1200 x 620 mm desks face the east partition. The 750 x 1300 mm lectern is at its current north-shifted position, clear of the south side aisle.

Teaching wall

Two 3.00 m-wide screens cover two pairs of counter-sliding whiteboard panels. Dashed south-wall glazing is high-level borrowed light. North glass and its doors carry wave-pattern privacy film at 0.75–1.85 m, strongest at the centre. The west entry is recessed 1.00 m; both 900 mm leaves swing east within the recess.

2 / Meeting room

3.25 x 1.10 m table with ten chairs. AV console and display sit on the north side of the return partition. The 600 mm column stays centred on the return-wall line.

3 / Store

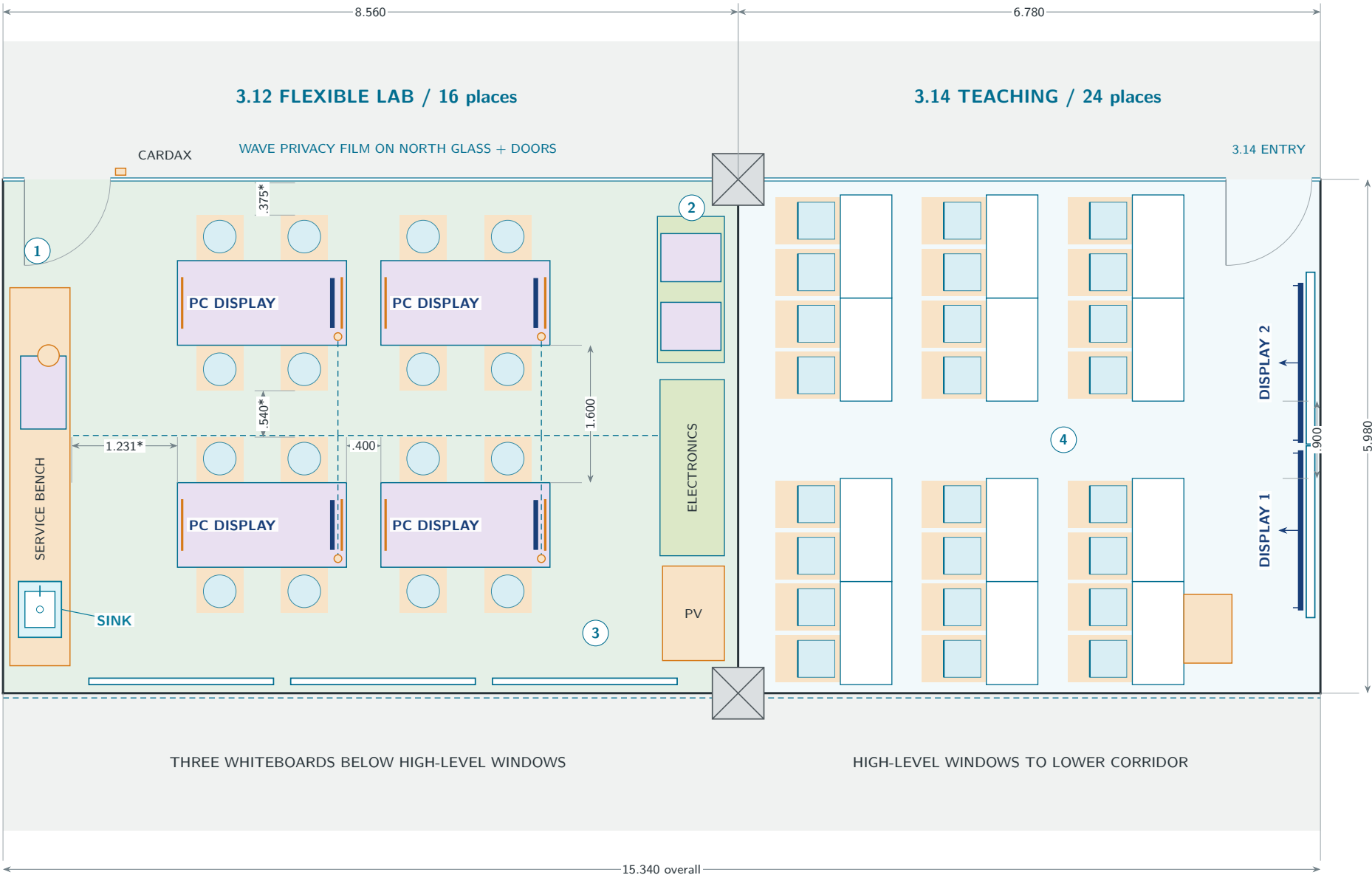
L-shaped partition retains a 2.806 m-deep store with east access, west tall cupboard, south worktop and equipment storage.

Drawing key

- Experiment bench / equipment
- Storage / cabinetry
- SINK / basin
- DEMONSTRATOR STATION
- Illustrative occupied space
- Structural column
- DISPLAY / arrow faces into room
- Full-height glazing
- Overhead / high-level element

Level 3 | Experiment lab and teaching room

Current powered bench layout, perimeter services and occupied-space allowances



Current design, beyond the earlier plan

The lab and teaching fronts, including both north doors, have wave-pattern privacy film between 0.75 and 1.85 m above the floor, strongest in the centre. Above and below remain clear. Four east-end PCs retain the walkthrough swivel and keyboard-tray detail.

Drawing conventions

Dark-blue DISPLAY bars and arrows show the teaching screens and viewing direction. White outlines are boards; blue basin marks the SINK. Crosses mark columns. Amber = occupied allowance; dashed blue = overhead power or high glazing. Dimensions remain conceptual.



1 / Flexible lab

Four 1969 x 984 mm benches, 900 mm high, with two stools on each long side: 16 places. Each has one PC display at its east end, four outlets under the ends and overhead supply. No centre service rail.

Perimeter services

West: 4.40 m service bench, 700 mm deep, with sink and solder station / local extraction. South: three 2.15 m whiteboards below clerestory windows. East: PV demonstration equipment, electronics cupboard and exactly two enclosed 3D printers.

2 / Storage and printers

Electronics cupboard: 2050 mm wide x 750 mm deep, with 650 mm shelves. Printer bench: 1700 x 780 mm. Shown closed; open doors and active work areas share adjacent circulation space.

3 / Revised lab clearances

The bench-edge gap is 1.600 m: the south pair moves 100 mm towards the whiteboards. With 530 mm occupied projections, 540 mm remains between seated rows. The north rear gap stays 375 mm; the south occupied envelope is 936 mm from the wall (671 mm from the board tray). The 400 mm short-end gap is for plug access. * Outer clearances: about 1.231 m. Tight occupied gaps are not circulation routes.

4 / Teaching room

Twelve 1200 x 600 mm desks provide 24 places facing east. The rear north desk group is reinstated. The 1.00 m entrance moves to the east end of the north frontage, opening inward into the front aisle. The 900 mm central aisle remains. The lectern touches the east edge of the front south desk. Two east-wall 1.80 m displays have a 150 mm gap.