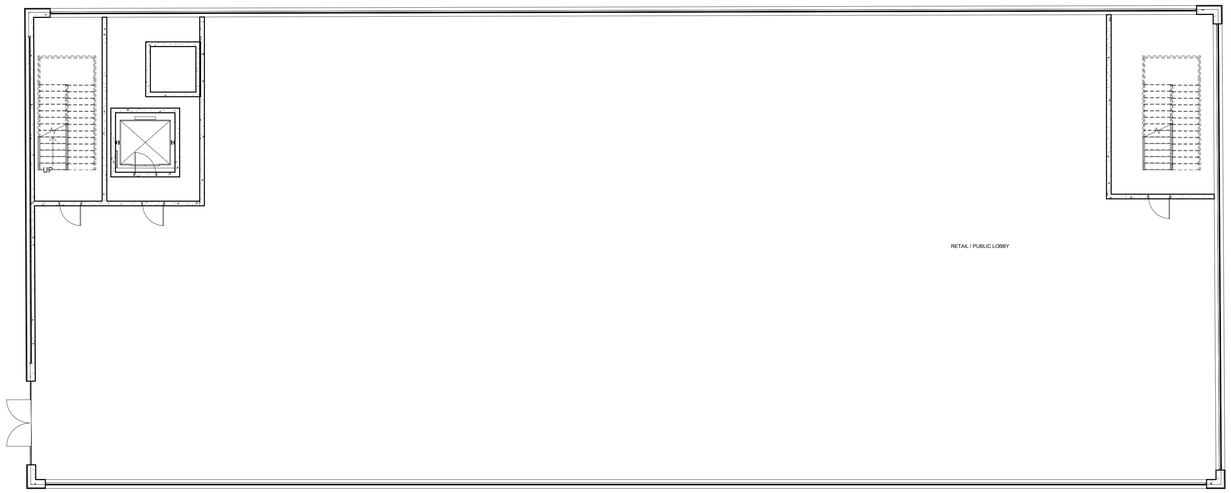
1155 THIRD STREET / MODULE 4

GROUND FLOOR PLAN | CHANDRA SUDA | CEE 120A / 220A



PROJECT + GROUND FLOOR
1155 Third Street, West Oakland
8 stories: retail + 7 housing floors
Ground level 0 ft; residential starts +15 ft
Upper floor-to-floor 11 ft; roof +92 ft
Eight-story concrete frame/core strategy; nonbearing steel-stud upper envelope. Structure developed in Week 6.

CIRCULATION
Remote north and south stairs connect all occupied floors and roof terrace. Electric elevator and separate service shaft stack through the building. Retail layout remains schematic.
Sprinklered travel-distance assumption: 250 ft maximum. Door clear-opening target: 32 in minimum; verify hardware and frame clearances.

ENVELOPE
W2 podium: porcelain rainscreen, 1in cavity, 5in mineral-wool CI, air barrier, 8in concrete, 5/8in gypsum.
Insulation layer R-21.0.
Primary entry uses a local curtain-wall bay. Other frontage remains punched/ribbon windows in layered walls.

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1155 THIRD ST

GROUND FLOOR PLAN

Project Number	CEE-M04-CS
Date	21 OCT 2026
Drawn By	CS
Checked By	CS

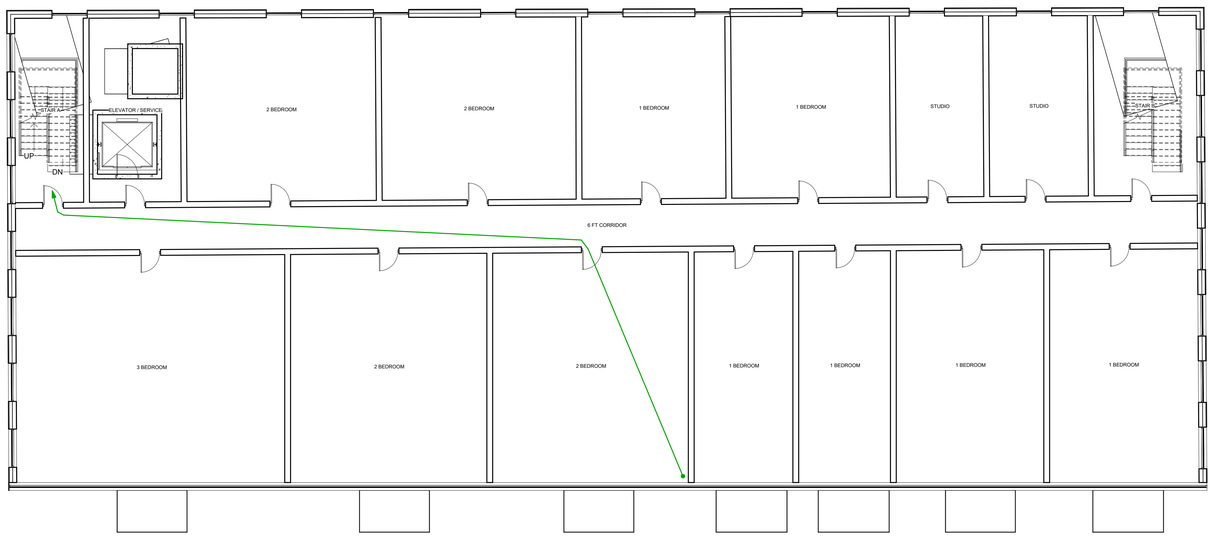
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1155 THIRD STREET / MODULE 4

TYPICAL HOUSING PLAN | CHANDRA SUDA | CEE 120A / 220A



TYPICAL RESIDENTIAL LEVEL
13 apartments per floor / 91 total
Program: 2 studios, 6 one-bedroom, 4 two-bedroom, 1 three-bedroom per floor. Unit interiors remain schematic.
6 ft double-loaded corridor, with stairs remotely placed at opposite ends.

FLOOR + WALL ASSEMBLIES
F1: 10in concrete structural slab.
F2: separate 1in finish assembly, slab top lowered 1in below finished level.
W1: 3/8in fiber cement, 1in cavity, 5in mineral wool CI, air barrier, 5/8in sheathing, 6in insulated stud zone, 5/8in gypsum.

EGRESS + ACCESS
13 remote apartment points checked to both stair doors. Governing nearest-exit path: 115.4ft < 250ft sprinklered course limit.
Native Revit Path of Travel shown.
27 risers / 15ft; 20 risers / 11ft. Treads approx. 11-1/4in.
Unit interiors schematic; not a complete code approval.

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1155 THIRD ST

TYPICAL HOUSING PLAN

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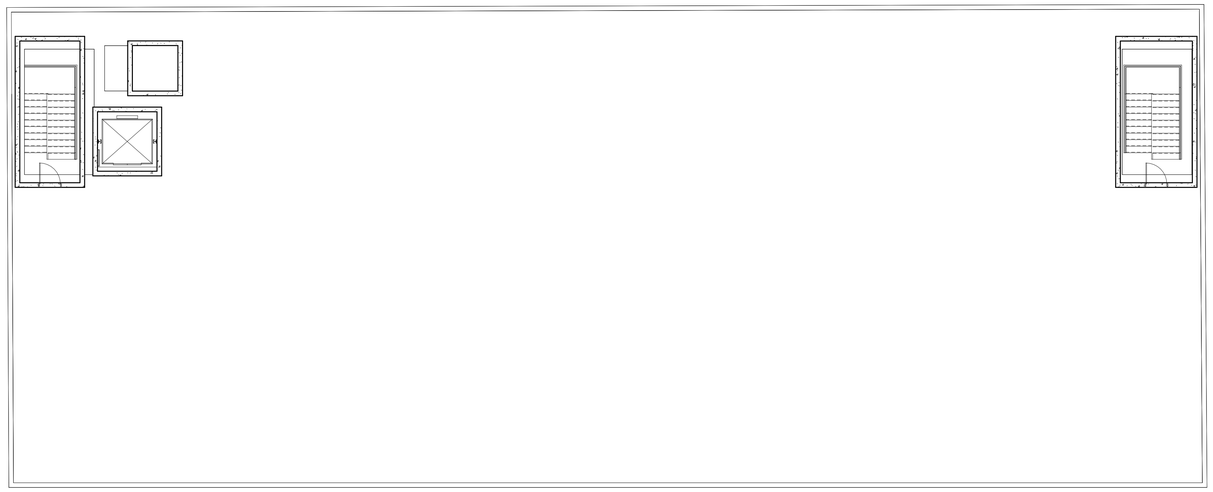
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1155 THIRD STREET / MODULE 4

ROOF TERRACE PLAN | CHANDRA SUDA | CEE 120A / 220A



OCCUPIED ROOF TERRACE
Roof level +92ft above ground datum.
Terrace selected; no green roof.
Two stair access points and continuous service riser. Guarding and drainage details require coordination.

R1 ROOF BUILD-UP
2in concrete pavers
1/2in cover board
Waterproofing membrane
8in rigid insulation
Vapor-control layer
Separate F1 10in structural concrete deck
Insulation k=0.035 W/mK; R-33.0.

THERMAL + DRAINAGE NOTES
Model roof is a schematic layered assembly. Pedestals, tapered drainage, roof drains, overflow routes, and thermal breaks to be resolved in subsequent detail design.
Shaft openings continue through roof assembly; protect openings and coordinate access headhouses.

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ROOF TERRACE PLAN

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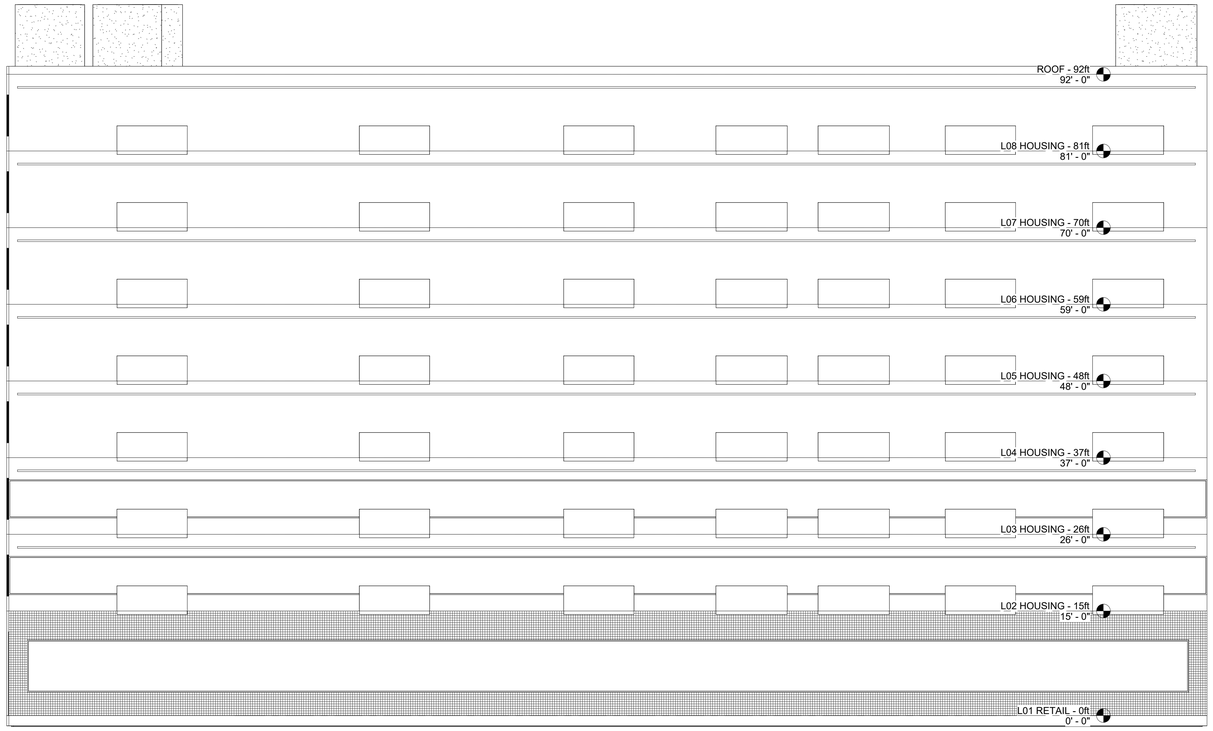
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1155 THIRD STREET / MODULE 4

WEST COURTYARD ELEVATION | CHANDRA SUDA | CEE 120A / 220A



WEST SOLAR RESPONSE
Week 2 Proposal C: 81% of ground receives at least 3 sun hours on March 21. Week 3 west windows receive approximately 7-9 hours on June 21.
3ft canopy projection at residential floors complements the retained 6ft balconies.

WEST GLAZING
Whole-window U-factor 0.30 Btu/h ft2 F
SHGC 0.25
Visible transmittance 0.55
Low SHGC limits afternoon solar gain; overhang geometry is a design trial, not a verified percentage reduction.

MATERIAL + HEIGHT STRATEGY
Fiber-cement upper rainscreen / porcelain podium.
5in continuous mineral wool provides R-21 before other layers. Whole-wall performance must include thermal bridges.
Concrete frame/core retained for eight-story height; upper walls are nonbearing steel-stud infill.

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WEST COURTYARD ELEVATION

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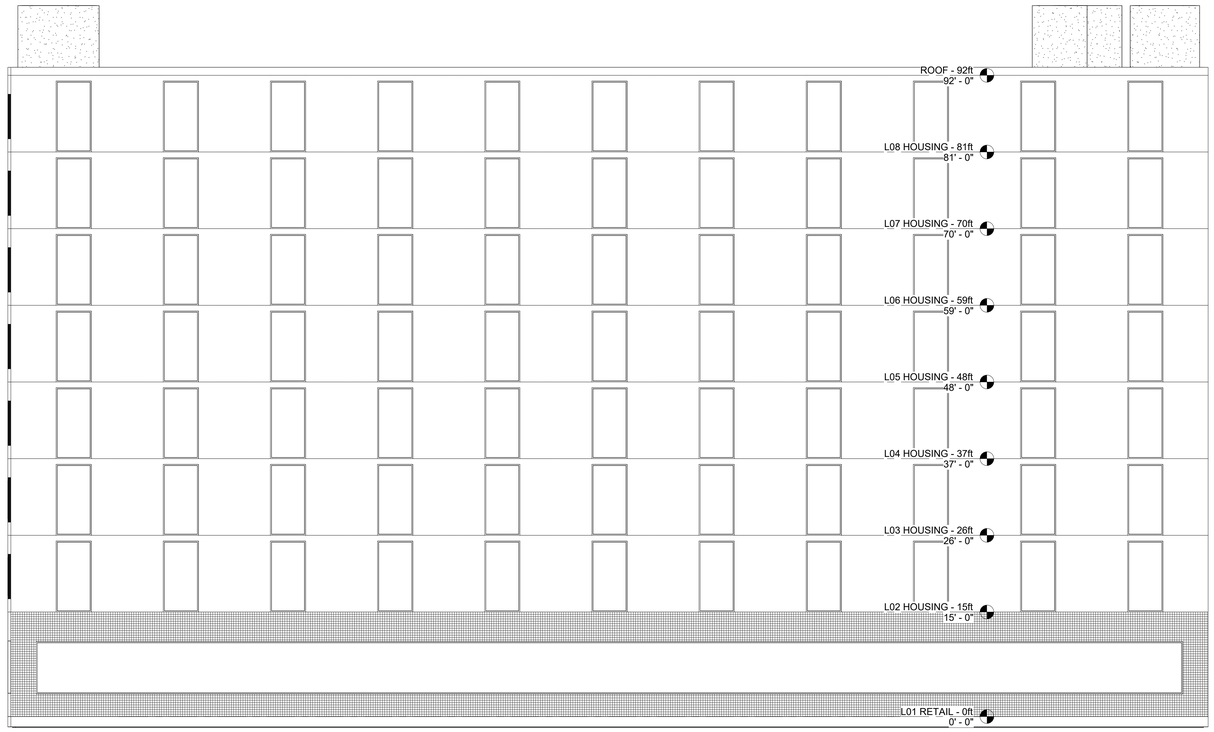
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1155 THIRD STREET / MODULE 4

EAST ADELINE ELEVATION | CHANDRA SUDA | CEE 120A / 220A



EAST / ADELINE FRONTAGE
Upper glazing U-factor 0.30
SHGC 0.25; visible transmittance 0.50
North glazing differs: SHGC 0.35; VT 0.60.
Imported massing, floor spacing and balcony rhythm remain the basis for the Revit model.

DATUMS
Ground 0ft
Level 2 +15ft
Level 3 +26ft
Level 4 +37ft
Level 5 +48ft
Level 6 +59ft
Level 7 +70ft
Level 8 +81ft
Roof +92ft

HANDOFF / VERIFICATION
Geolocated native building elements imported from Forma. Layered wall, floor and roof types and orientation-specific thermal properties rebuilt in Revit.
Area and carbon comparisons must use matching boundaries, material scope and study period.

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EAST ADELINE ELEVATION

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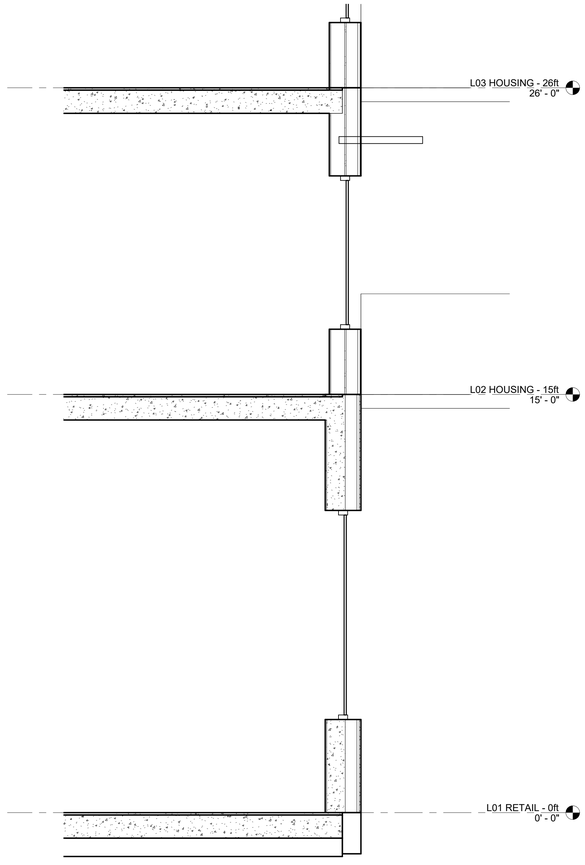
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1155 THIRD STREET / MODULE 4

WALL SECTION + ASSEMBLIES | CHANDRA SUDA | CEE 120A / 220A



W1 UPPER WALL / OUTSIDE TO INSIDE
3/8in fiber cement rainscreen
1in ventilated drainage cavity
5in continuous mineral wool insulation
Air / water barrier
5/8in exterior gypsum sheathing
6in insulated steel-stud zone
5/8in interior gypsum
Total thickness: 13-5/8in.
CI layer: R-21.0 (k=0.0343 W/mK).

W2 PODIUM / OUTSIDE TO INSIDE
3/4in porcelain cladding
1in ventilated cavity
5in continuous mineral wool
Air / water barrier
8in concrete
5/8in gypsum
Total thickness: 15-3/8in.
CI remains continuous across floor edge; brackets and fire stopping require thermal-bridge and fire-resistance detailing.

SLAB EDGE + PERFORMANCE
10in structural concrete slab with separate 1in floor finish.
Upper stud zone uses an effective conductivity assumption of 0.12 W/mK; verify framing fraction and product data.
Ventilated cavity is excluded from R-19 compliance claim.
Mineral-wool conductivity basis: ROCKWOOL Comfortboard 80 technical data (R-4.2/in).

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1155 THIRD ST

WALL SECTION + ASSEMBLIES

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