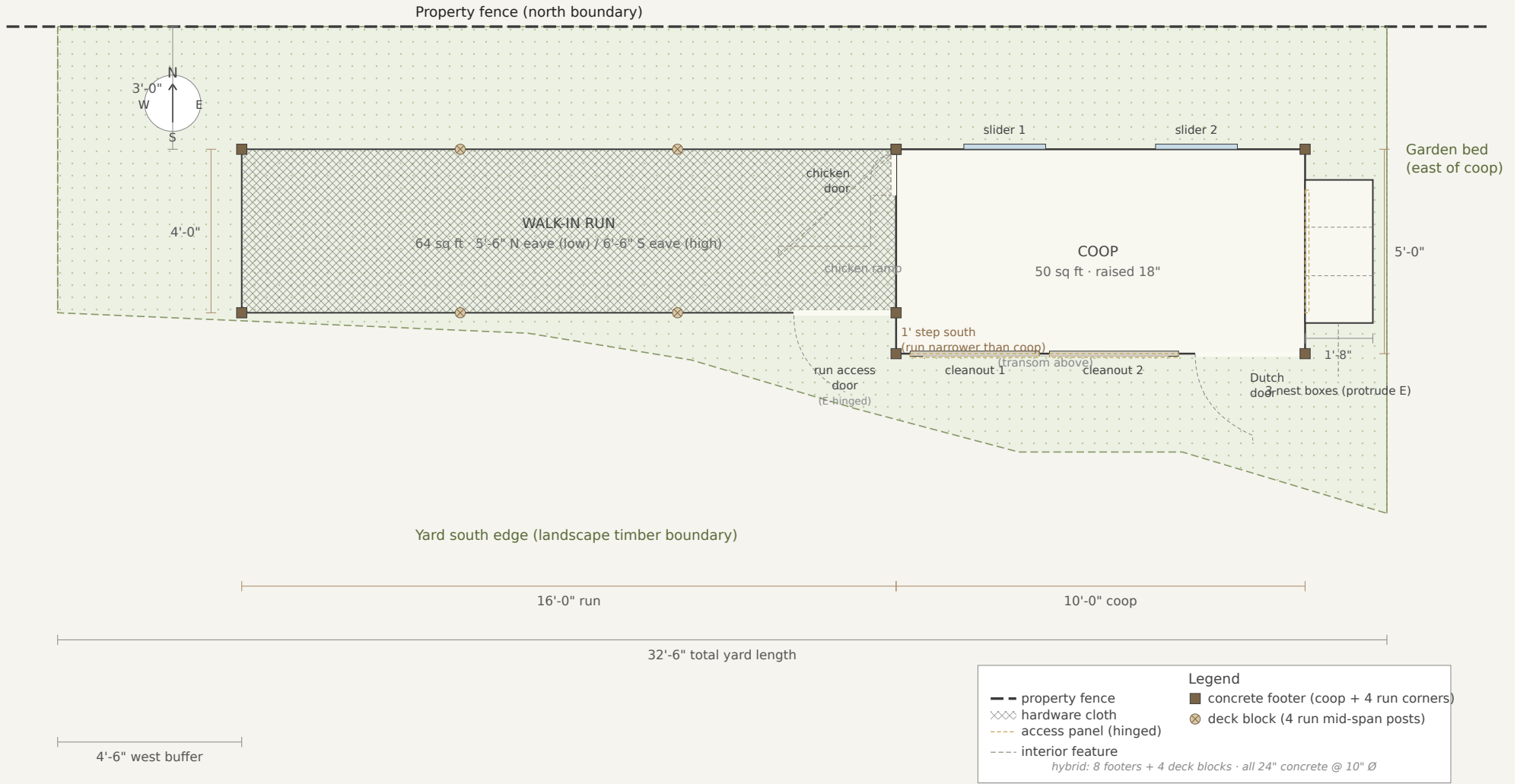


Sheet A1 — Site plan (v11: 5'x10' coop)

Coop + run footprint in yard · setbacks & buffers · v11 footprint shifted south 12" from v10 to clear sprinkler · see A6 for interior layout

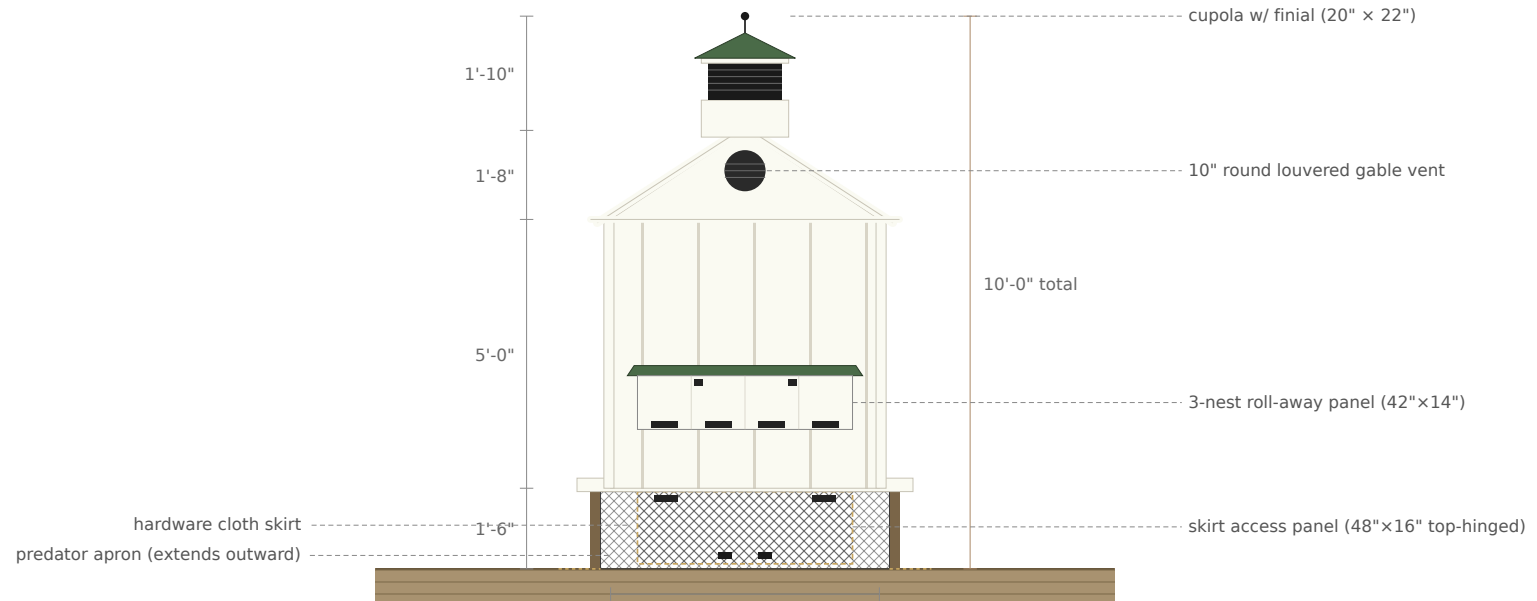
Scale 1/2" = 1'-0"

32 px = 1 ft



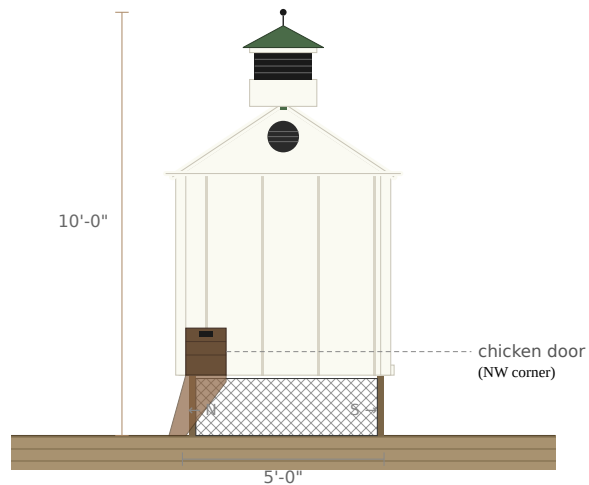
East elevation — cottage face

nest panel · round gable vent · cupola · 10'-0" total height



West elevation — construction reference

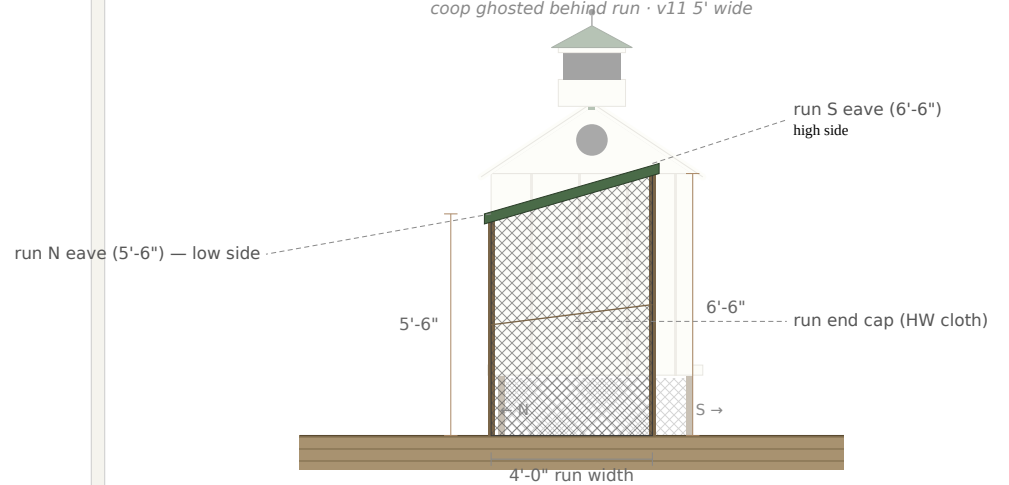
coop wall without run · 3/8" = 1'-0"



West elevation — as-built (with run)

view from west, run in foreground · 3/8" = 1'-0"

coop ghosted behind run · v11 5' wide



Sheet A3 — South elevation (v11: 5'x10' coop)

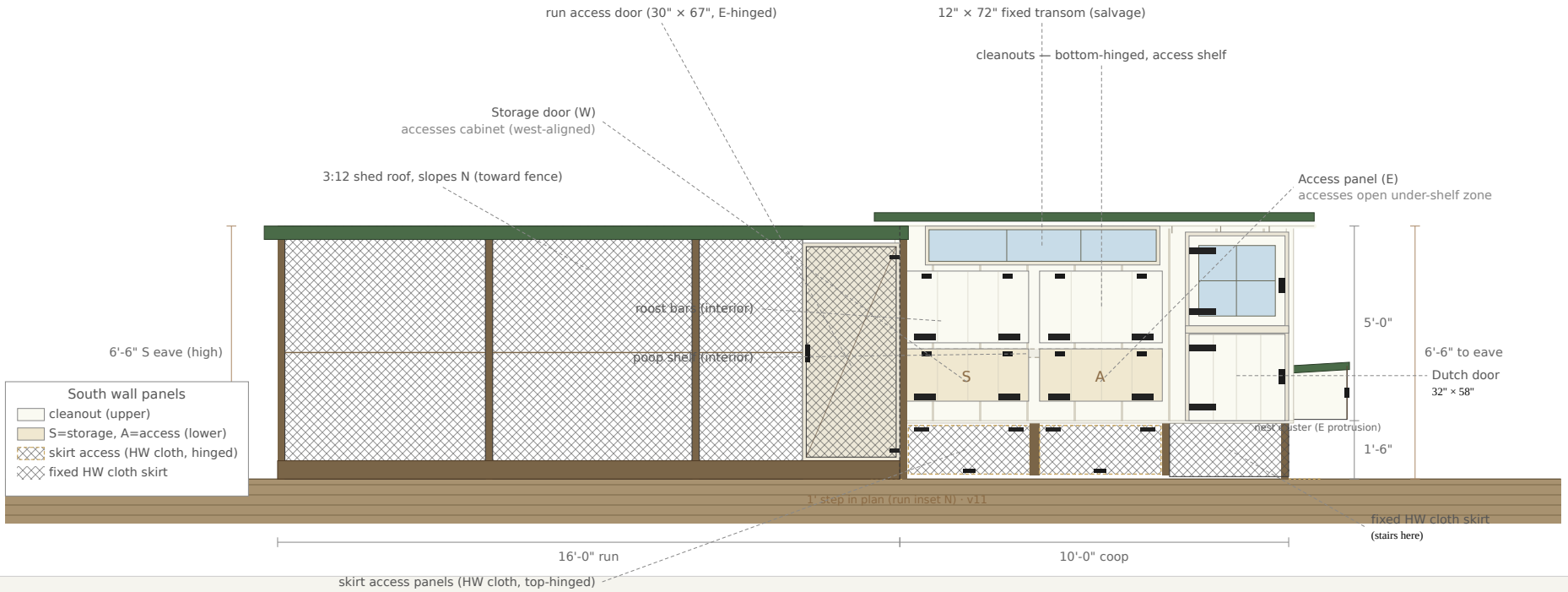
Cabinet aligned to west wall · W lower = storage door · E lower = access panel

Scale 1/2" = 1'-0"

32 px = 1 ft

South elevation — view from yard

all panels bottom-hinged · HW cloth skirt full length · run roof slopes DOWN to N (toward fence)



Sheet A4 — North elevation (v11: 5'x10' coop, fence-facing wall)

Viewer on north side looking south · E left, W right · Coop left, run right

Scale 1/2" = 1'-0"

32 px = 1 ft

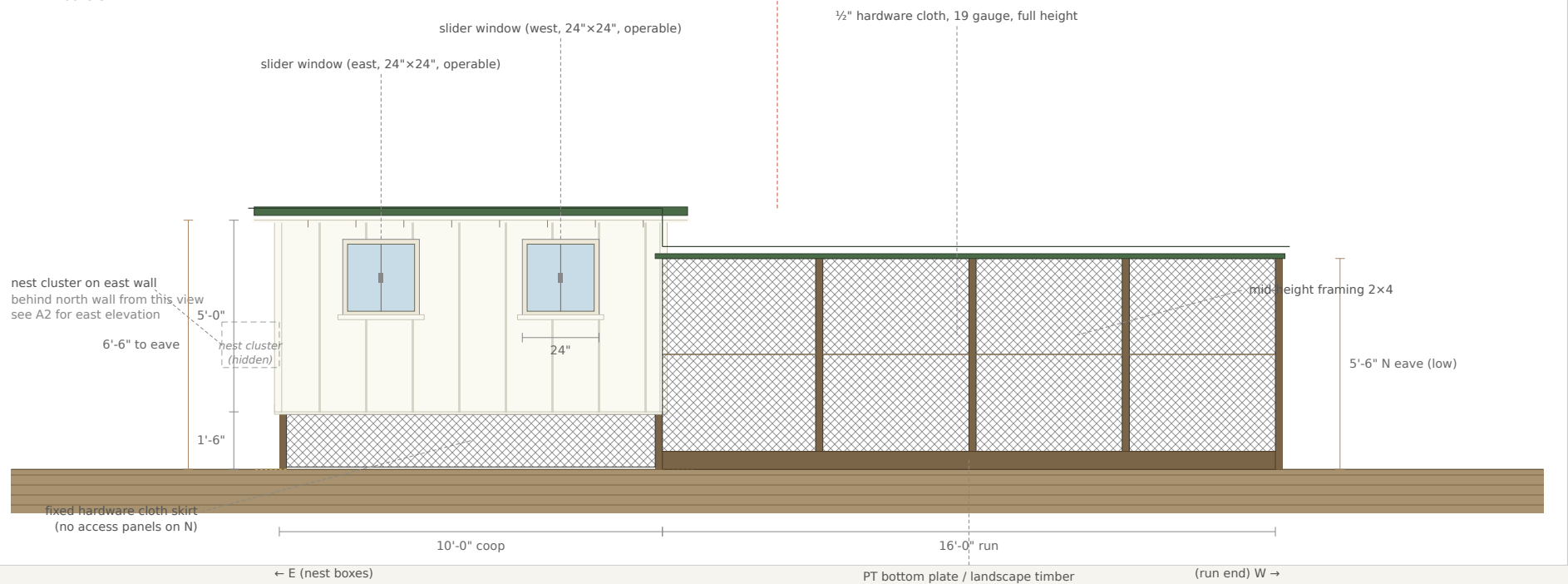
3'-0" buffer between fence (behind viewer) and structure · v11

North elevation — view from fence side

two slider windows on coop (left) · hardware cloth run (right) · run eave 1'-0" lower than coop

(no step on north side)

run roof slopes DOWN toward N — coop 6'-6", run 5'-6" on N side

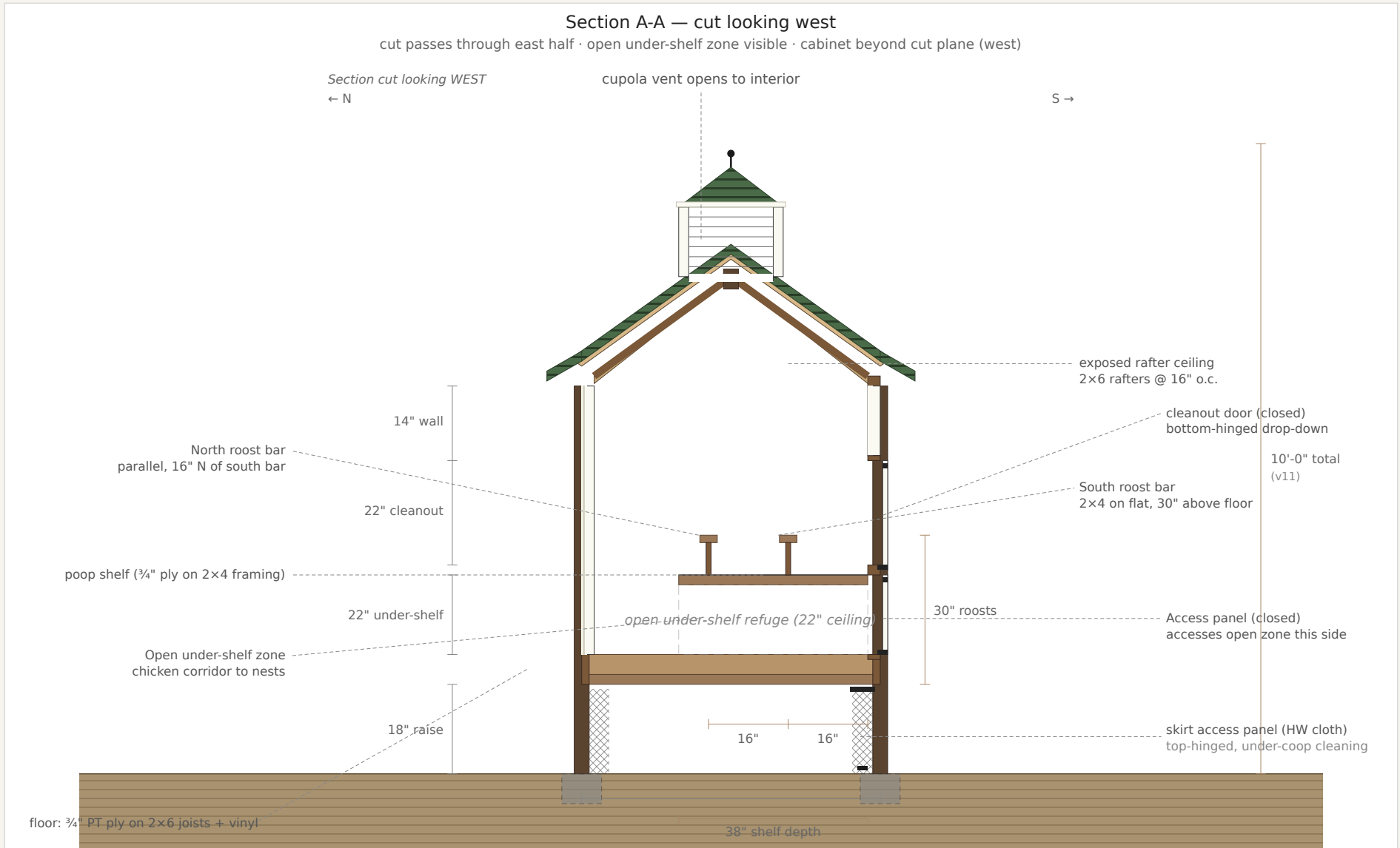


Sheet A5a — Section A-A through coop, east half (v11: 5' wide, 1'-8" ridge rise)

Open under-shelf zone visible · cabinet beyond cut plane · see A5c for west-half section

Scale 3/4" = 1'-0"

48 px = 1 ft



cabinet (on west half of shelf) is beyond cut plane — see A6 interior plan for full cabinet layout

# Sheet A5b v2 — Section through nest box

E-W cut through one nest box · viewer south of cut, looking north · matches south-elevation perspective

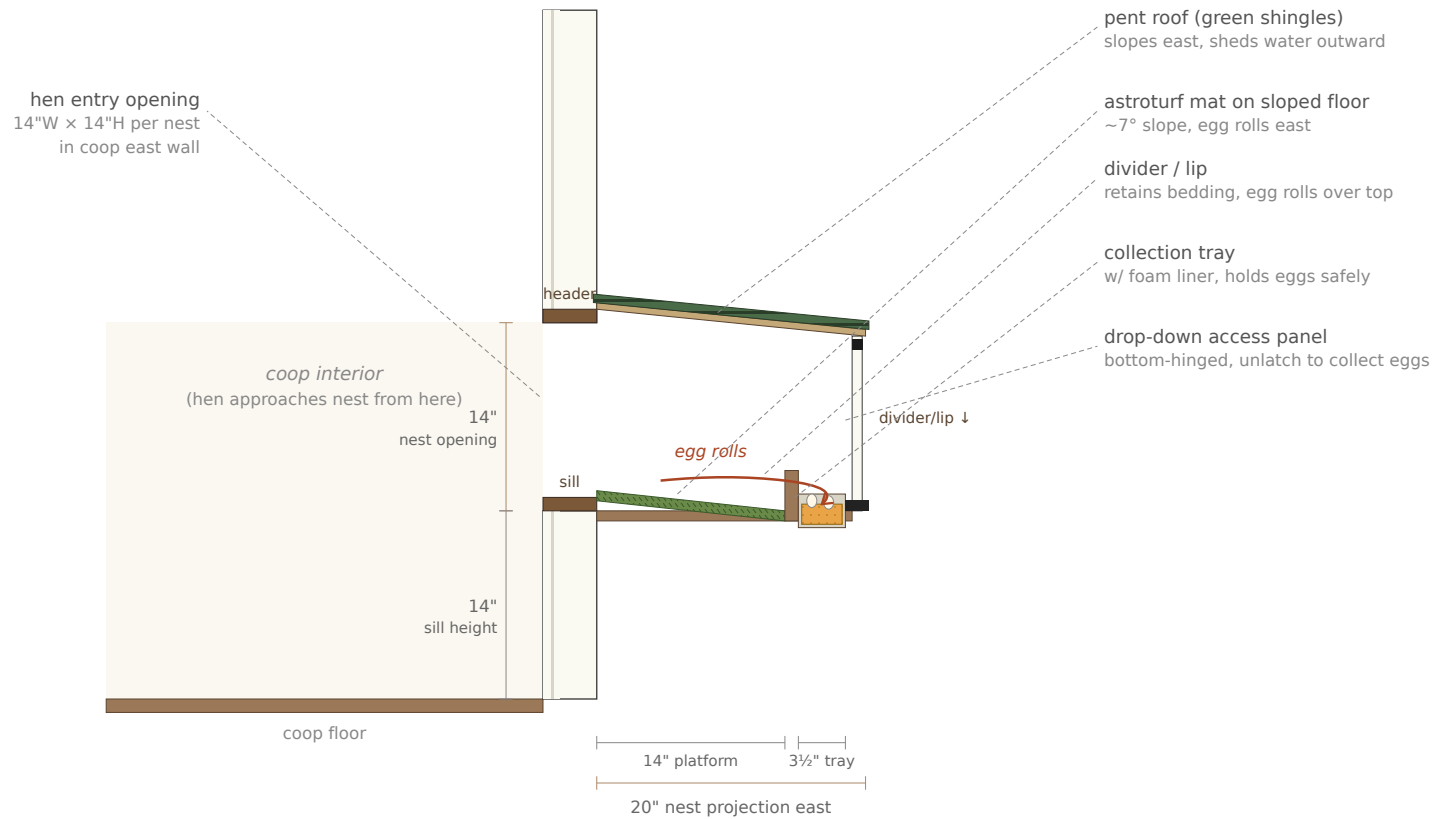
Scale 1½" = 1'-0"

96 px = 1 ft · 8 px = 1"

## Nest box section — looking north

coop interior on LEFT (west) · nest box projects to RIGHT (east) · same perspective as south elevation

Viewer  
south of cut  
looking N  
W ← | → E



### How the roll-away nest works:

hen enters nest from coop interior · lays egg on astroturf · egg rolls east down 7° slope  
over divider into padded tray · kid collects from drop-down panel outside

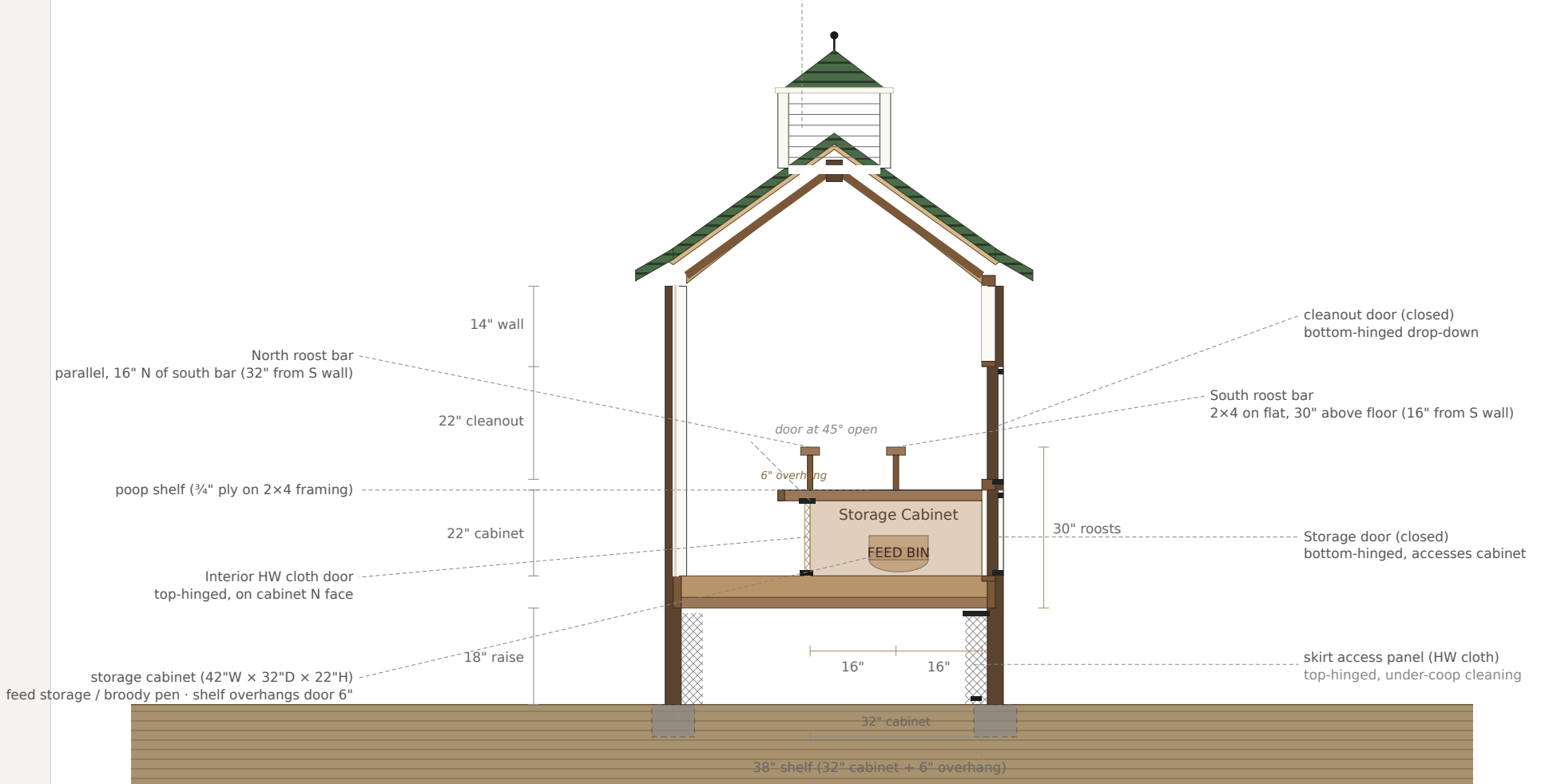
Section A-A — cut looking west (west half)

cut passes through storage cabinet · shared west wall on left edge

Section cut looking WEST  
 ← N

cupola vent opens to interior

S →





Sheet A7 — Floor framing plan (v11: 5'x10')

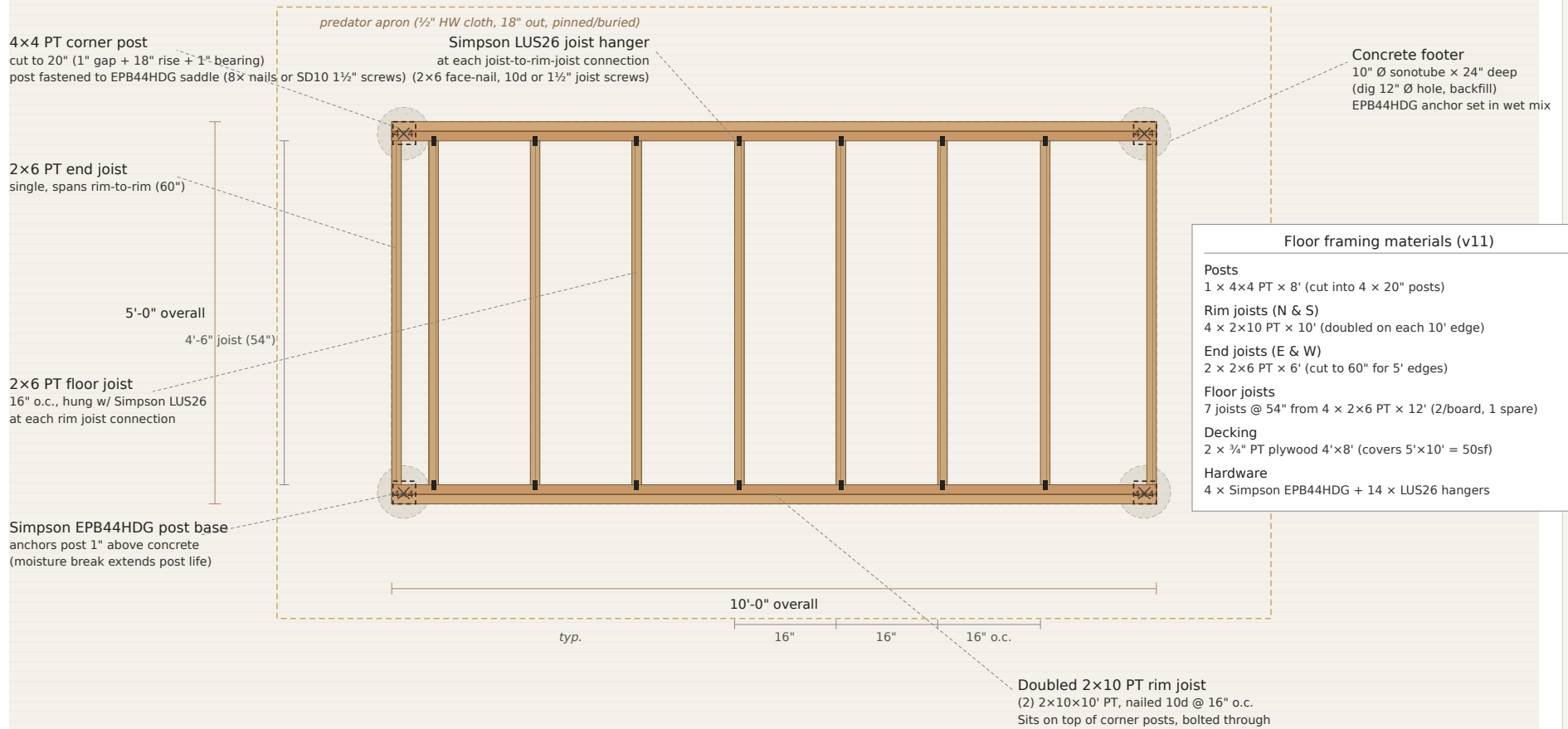
4x4 PT corner posts · doubled 2x10 PT rim joists (N & S) · 2x6 PT joists 16" o.c. N-S, cut to 54"

Scale 1" = 1'-0"

64 px = 1 ft

Floor framing plan — view from above

N at top · dashed lines = below deck (hidden)



Sheet A8 v5 — South wall framing

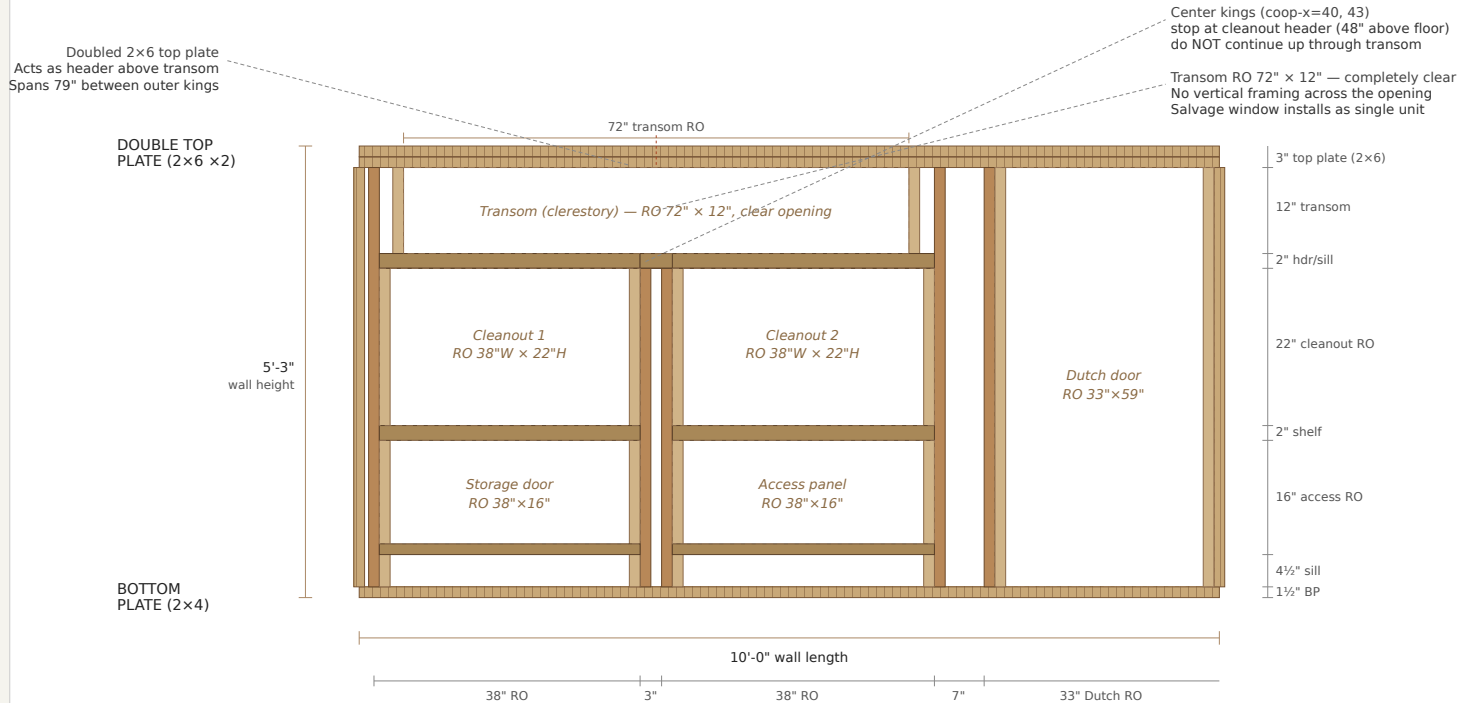
Center kings stop at cleanout headers · doubled 2×6 top plate carries 79" span · transom RO unobstructed

Scale 3/4" = 1'-0"

5.33 px = 1"

South wall framing — viewed from yard

W on left · E on right · transom completely clear of vertical framing



South wall framing members

- |  |  |  |
|--|--|--|
| Standard stud (corners only)<br>2x4 SPF x 58 1/2" · at corners only on this wall                 | Jack stud / transom side member<br>2x4 SPF · supports headers (various lengths)            | Cleanout headers<br>2x4 on flat per cleanout · spans 38" RO each   |
| Outer king (full height)<br>2x4 SPF x 58 1/2" · at coop-x=2, 81, 88, 120                         | Bottom plate<br>2x4 SPF x 10'  | Shelf framing / shared sill-header<br>2x4 on flat · cleanout sill + access panel header + shelf support  |
| Center king (short, stops at 48")<br>2x4 SPF x 46 1/2" · at coop-x=40, 43 — clears transom above | Doubled top plate (2x6)<br>2 x 2x6 SPF x 10' · spans 79" transom area as integrated header | <b>Why doubled 2x6 top plate (instead of 2x4):</b><br>2x6 plate has 57% more bending capacity than 2x4 in spanning direction.<br>Adequate for 79" unsupported span across transom area carrying roof tributary load. |

Sheet A9 v3 — North, East & West wall framing (v11: 5' coop)

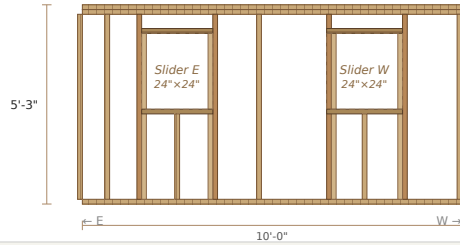
All three remaining walls - east and west are gable ends - v11: E/W walls now 5'-0" wide, ridge rise 20"

Scale 1/2" = 1'-0"

32 px = 1 ft

North wall framing

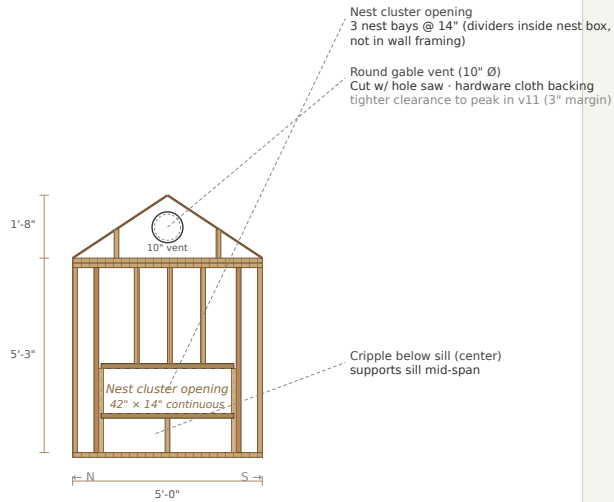
E on left, W on right · 10' × 63" · 2 slider windows



- Slider RO 24" × 24"  
sill 30" above floor, top 54"
- Cripple stud under sill  
centered under each slider, 27" tall

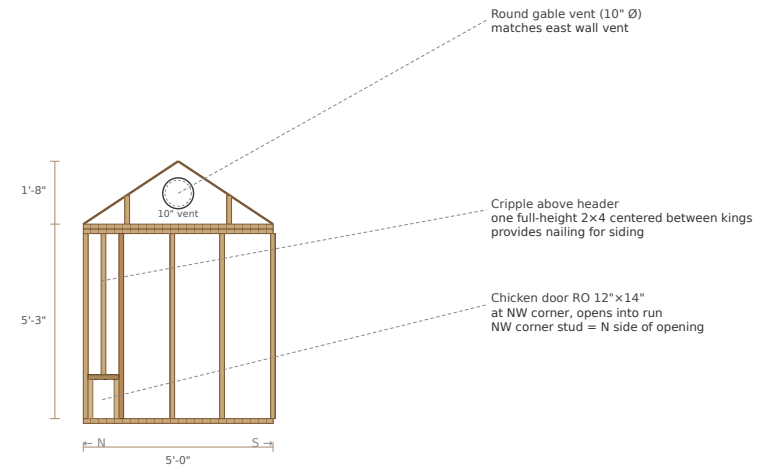
East wall framing (gable end)

viewer outside E wall · N on LEFT, S on RIGHT · 5' × 63" + gable (20" rise)



West wall framing (gable end)

viewer outside W wall · N on LEFT, S on RIGHT · chicken door at NW corner

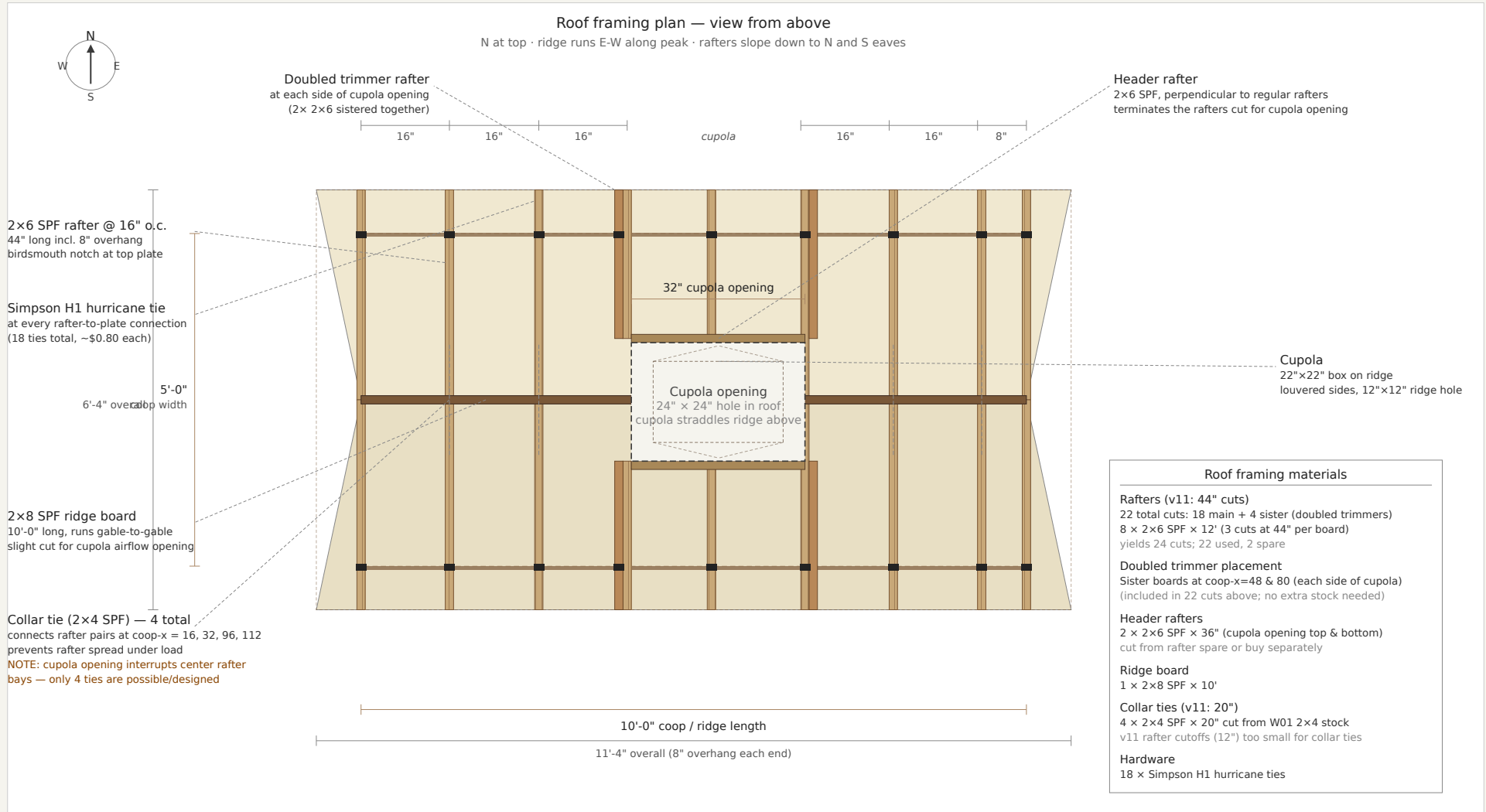


Sheet A10 — Roof framing plan (v11: 5'x10', 20" rise)

2x6 rafters @ 16" o.c. · 2x8 ridge · cupola straddles ridge · viewed from above · v11: half-span 30", rafter stock 44"

Scale 1" = 1'-0"

64 px = 1 ft



Sheet A11 — Roof framing section (v11: 5' coop, 20" rise)

Rafter profile · 8:12 pitch · birdsmouth and ridge cuts · collar tie · cupola section detail · v11: 30" half-span, 44" rafter stock

Various scales

see each panel

Section through typical rafter pair (no cupola)

Scale 1/8" = 1'-0" · 64 px = 1 ft

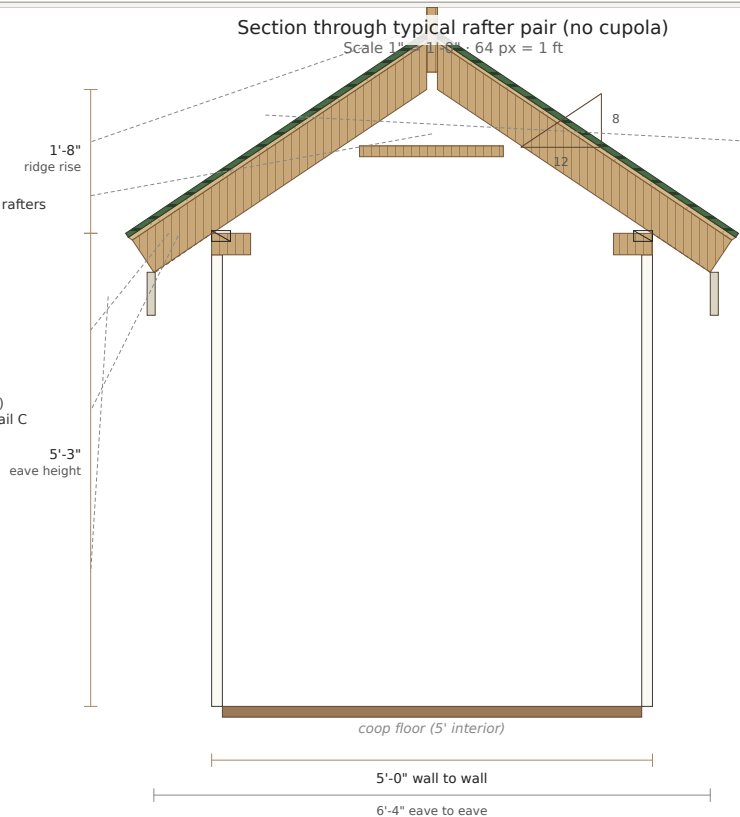
Ridge connection  
see Detail B

Collar tie 2x4 SPF  
spans 20" between paired rafters

Birdsmouth notch  
see Detail A

Hurricane tie (Simpson H1)  
at rafter-to-plate · see Detail C

8" eave overhang  
1x6 fascia, soffit closed

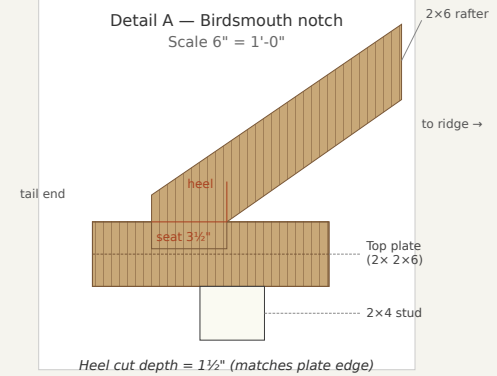


Roof assembly (top to bottom):

- Hunter green shingles
- 30# felt underlayment
- 1/2" OSB sheathing
- 2x6 SPF rafters @ 16" o.c.

Detail A — Birdsmouth notch

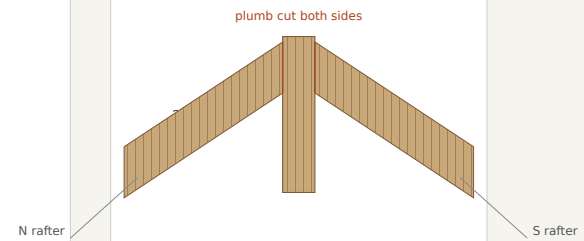
Scale 6" = 1'-0"



Heel cut depth = 1 1/2" (matches plate edge)

Detail B — Ridge connection

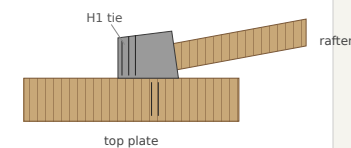
Scale 3" = 1'-0"



Rafters bear against ridge with plumb cut.  
Toe-nail or use Simpson LSSU rafter slope hangers.

Detail C — Hurricane tie (Simpson H1)

Schematic, not to scale



Wraps rafter to plate · 8 nails (4 each side)

Detail D — Cupola section (cut N-S through cupola center)

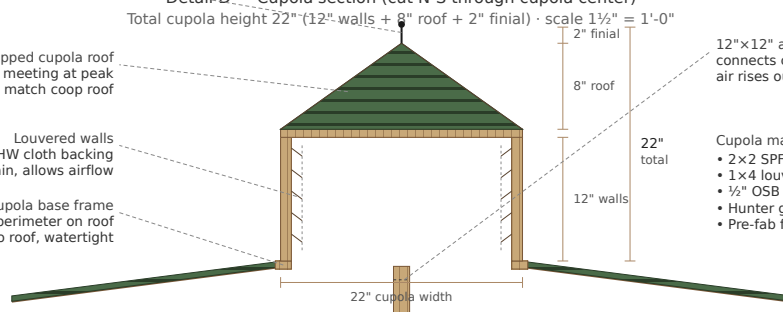
Total cupola height 22" (12" walls + 8" roof + 2" finial) · scale 1 1/2" = 1'-0"

Decorative finial  
pre-fab metal or turned wood

Hipped cupola roof  
4 hip rafters meeting at peak  
shingled to match coop roof

Louvered walls  
angled wood slats + HW cloth backing  
sheds rain, allows airflow

Cupola base frame  
2x4 perimeter on roof  
flashed to roof, watertight



12"x12" airflow notch in ridge  
connects coop interior to cupola  
air rises out through louvers

Cupola materials:

- 2x2 SPF wall framing
- 1x4 louver slats (4-5 per side)
- 1/2" OSB roof sheathing
- Hunter green shingles (matches coop)
- Pre-fab finial (metal or wood)

## Sheet A12 — Door details and run wall section

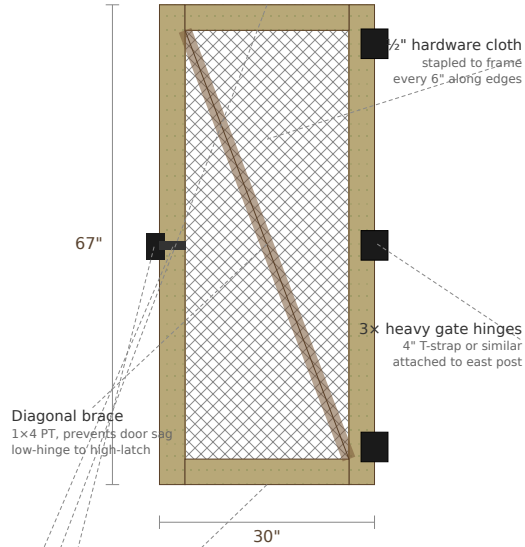
Run access door · Coop Dutch door · Run wall cross-section through deck pier

Scale 1" = 1'-0"

64 px = 1 ft

### Run access door

30" × 67" · 1×4 PT frame + ½" hardware cloth · East-hinged  
Viewed from outside (south side of run)



**Diagonal brace**  
1×4 PT, prevents door sag  
low-hinge to high-latch

**1×4 PT stile**  
2/ea, full 67" length

**1×4 PT top rail**  
1×4 PT × 23" between stiles

**1×4 PT bottom rail**  
1×4 PT × 23" between stiles

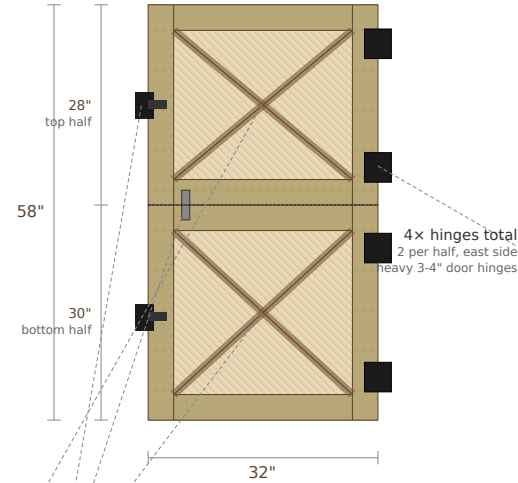
**Spring gate latch**  
predator-proof: eye + spring clip pin  
(raccoons can defeat thumb latches)

← W (latch)

E (hinged) →

### Coop Dutch door (SE corner)

32" × 58" · split horizontally · ¾" PT ply + 1×4 frame · East-hinged  
Viewed from outside (south side of coop)



**Top half (28" tall)**  
opens independently to peek/feed  
cross-back bracing on ¾" PT ply

**Bottom half (30" tall)**  
acts as a half-wall when top is open  
keeps chickens contained

**Shoot bolt / Dutch door cap**  
connects halves to act as one door  
slides into bottom-half top rail

**2× spring gate latches**  
one per half, west side  
each half lockable independently  
← W (latch)

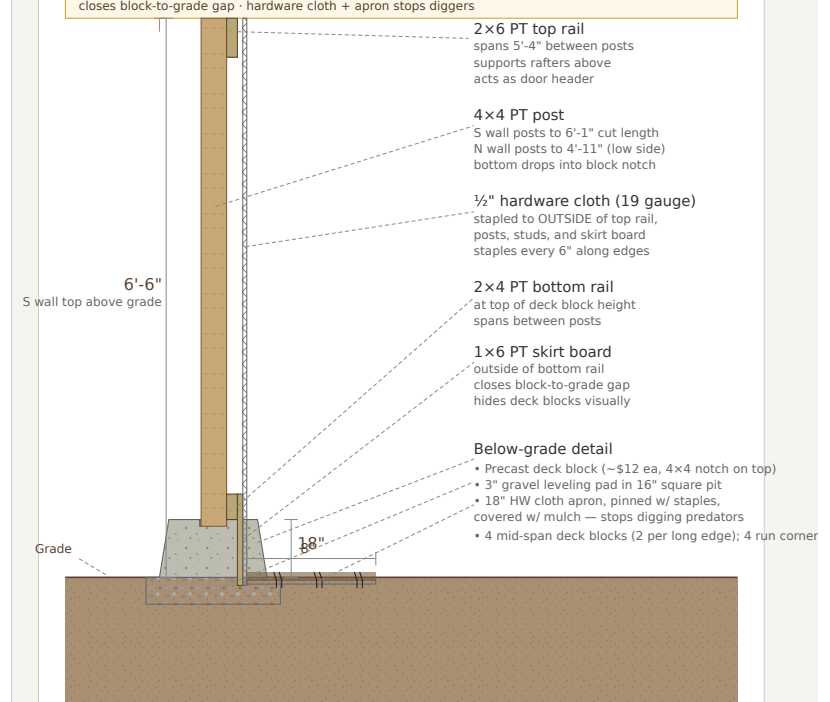
E (hinged) →

### Run wall section at MID-SPAN post (deck block)

Cut perpendicular to S wall at a mid-span post · INSIDE (run) on LEFT · OUTSIDE on RIGHT  
CORNER posts use concrete footers + EPB44HDG (same as coop, see A1) — this detail is mid-span only

#### Why this works

Deck blocks support framing above grade · skirt board  
closes block-to-grade gap · hardware cloth + apron stops diggers



**2×6 PT top rail**  
spans 5'-4" between posts  
supports rafters above  
acts as door header

**4×4 PT post**  
S wall posts to 6'-1" cut length  
N wall posts to 4'-11" (low side)  
bottom drops into block notch

**½" hardware cloth (19 gauge)**  
stapled to OUTSIDE of top rail,  
posts, studs, and skirt board  
staples every 6" along edges

**2×4 PT bottom rail**  
at top of deck block height  
spans between posts

**1×6 PT skirt board**  
outside of bottom rail  
closes block-to-grade gap  
hides deck blocks visually

#### Below-grade detail

- Precast deck block (~\$12 ea, 4×4 notch on top)
- 3" gravel leveling pad in 16" square pit
- 18" HW cloth apron, pinned w/ staples, covered w/ mulch — stops digging predators
- 4 mid-span deck blocks (2 per long edge); 4 run corner

← INSIDE (run)

OUTSIDE (yard) →