



Composite deck on Superior's three-sided porch box; TJ-style open gable; wrap-ready.

DESIGN INTENT — NOT FOR CONSTRUCTION. Not reviewed by DARY or the engineer of record. Member sizes start from TJ Belcher's engineered porch (RMG job 199255, Colorado), go heavier (8x12, 8x8, 8x10), and must be re-designed for Michigan loads (ground snow 50 psf, drift and sliding snow, 115 mph).

KEYED NOTES

- 1 Composite decking.** 5/8" boards, 3/16" gaps, picture-frame border, 1" overhang. The First Phase west border becomes the breaker board at the Second Phase joint.
- 2 Deck framing.** 2x10 PT joists @ 16" o.c., rated for their exposure, on a PT sill on the Superior wall tops (First Phase) or on 3-ply 2x10 deck beams (Second Phase).
- 3 Superior porch walls.** 4" Xl wall, 10 1/4", three sides, 24'-0" x 12'-0" to faces, on stone footing. Top about 8 1/4" above grade (confirm). Vent, drain and deck-ledge openings cast in on rev 4.
- 4 Brick skirt.** Light brick veneer on Superior's ledge, with screened 16" x 8" vents: the box encloses the space under the deck.
- 5 Brick pedestal.** 24" x 24" x 30" over a concrete core that bears on the Superior wall (First Phase) or a pile cap (Second Phase), with a 2" stone cap.
- 6 Post.** 8x8 DF #1 Post and Timber, rough-sawn, on a concealed post base (about 1" standoff, hardware hidden). TJ's engineered porch (RMG 199255) used 6x6 on exposed APVB66 bases.
- 7 Beams.** 8x12 DF rough-sawn (heavier than TJ's 6x12): front tie beam (truss bottom chord), eave and ridge drop beams, and the Second Phase front, west, north and inner beams. All beam bottoms at 9'-9 1/2" above grade, one line all round.
- 8 Open king-post truss.** 8x10 DF top chords, king post and struts at 6/12 on the 8x12 tie beam. Concealed joints: steel knife plates slotted into the timber and pinned, plugged, with nothing on the beam faces. Engineer sizes them (TJ's 6x used exposed Simpson APV straps).
- 11 Standing-seam roof.** Galvalume, PVDF finish, charcoal. 6/12 gable; the 0.45/12 wrap is mechanically seamed double-lock, a panel rated for low slope. Snow guards over the steps and entry; ice-and-water membrane at eaves, valleys and the wall.
- 12 Ridge post.** 8x8 on a concealed post base under the ridge beam's house end. It stands over filler inside the box, so it bears on a Superior ledge or a helical pile, never the deck.
- 13 Steps.** Composite, 4 risers of 5", 10" treads. Front steps 5'-3 1/2" wide between the east-bay pedestals; side steps 6'-0" in the middle west bay. Black metal handrails.

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First Phase · Elevation and section

South elevation and Section A. All heights are taken from the Blender model at the 9' plate.

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HEIGHTS ABOVE GRADE (FROM THE MODEL)

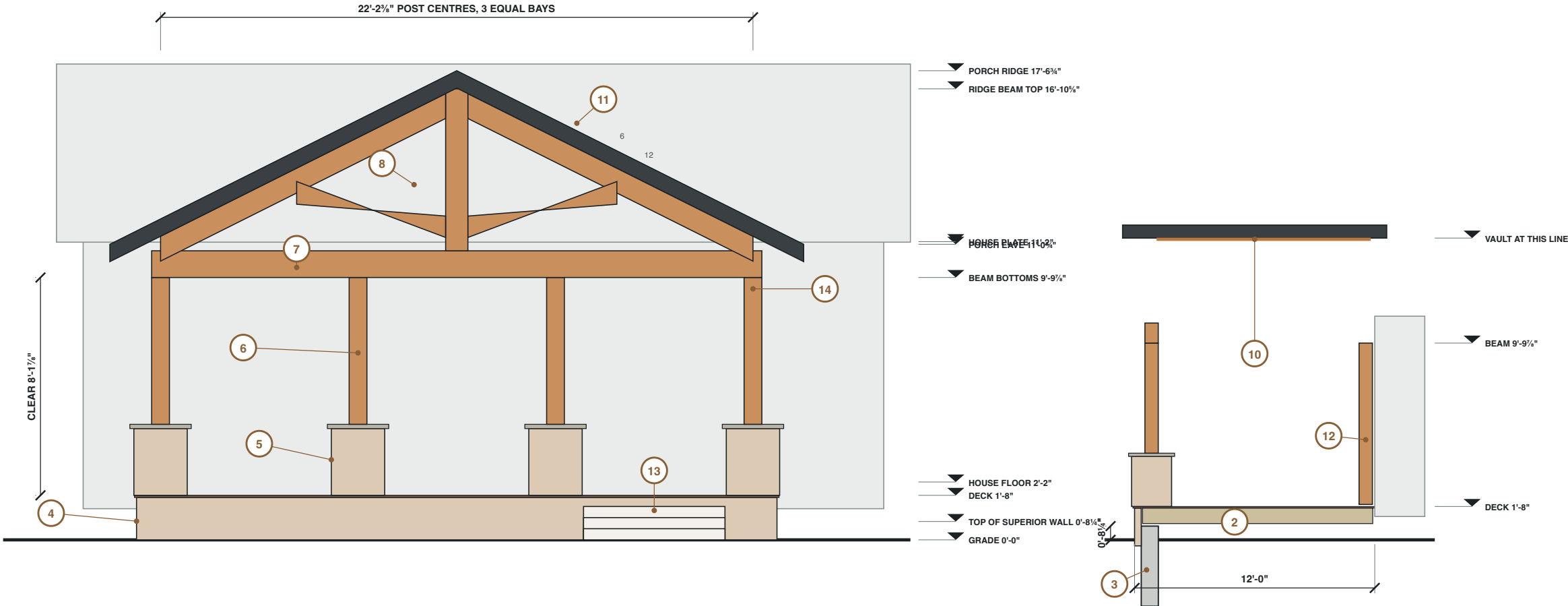
Grade	0' - 0"
Top of Superior porch wall	0' - 8 1/4"
Deck	1' - 8"
House floor	2' - 2"
Beam bottoms (one line)	9' - 9 7/8"
Clear under beams	8' - 1 7/8"
Flat wrap ceiling (P2)	10' - 7 3/8"
Porch eaves	11' - 0 3/4"
House plate (9' walls)	11' - 2"
Wrap roof crest at the wall (P2)	11' - 6 1/2"
Ridge beam top	16' - 10 3/8"
Porch ridge	17' - 6 3/4"

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- 2 Deck framing. 2x10 PT joists @ 16" o.c., rated for their exposure, on a PT sill on the Superior wall tops (First Phase) or on 3-ply 2x10 deck beams (Second Phase).
- 3 Superior porch walls. 4' Xl wall, 10 1/4", three sides, 24'-0" x 12'-0" to faces, on stone footing. Top about 8 1/4" above grade (confirm). Vent, drain and deck-ledge openings cast in on rev 4.
- 4 Brick skirt. Light brick veneer on Superior's ledge, with screened 16" x 8" vents: the box encloses the space under the deck.
- 5 Brick pedestal. 24" x 24" x 30" over a concrete core that bears on the Superior wall (First Phase) or a pile cap (Second Phase), with a 2" stone cap.
- 6 Post. 8x8 DF #1 Post and Timber, rough-sawn, on a concealed post base (about 1" standoff, hardware hidden). TJ's engineered porch (RMG 199255) used 6x6 on exposed APVB66 bases.
- 7 Beams. 8x12 DF rough-sawn (heavier than TJ's 6x12): front tie beam (truss bottom chord), eave and ridge drop beams, and the Second Phase front, west, north and inner beams. All beam bottoms at 9'-9 7/8" above grade, one line all round.
- 8 Open king-post truss. 8x10 DF top chords, king post and struts at 6/12 on the 8x12 tie beam. Concealed joints: steel knife plates slotted into the timber and pinned, plugged, with nothing on the beam faces. Engineer sizes them (TJ's 6x used exposed Simpson APV straps).
- 9 Cedar frieze. Closes the gap of about 7" between the eave beams and the rafters. It keeps the shared beam line. Alternative: raise the First Phase beams and step the line at the SW corner later.
- 10 Cedar ceiling. T&G cedar: vaulted under the open gable (First Phase), flat under the wrap (Second Phase).
- 11 Standing-seam roof. Galvalume, PVDF finish, charcoal. 6/12 gable; the 0.45/12 wrap is mechanically seamed double-lock, a panel rated for low slope. Snow guards over the steps and entry; ice-and-water membrane at eaves, valleys and the wall.
- 12 Ridge post. 8x8 on a concealed post base under the ridge beam's house end. It stands over fill inside the box, so it bears on a Superior ledge or a helical pile, never the deck.
- 13 Steps. Composite, 4 risers of 5", 10" treads. Front steps 5'-3 5/8" wide between the east-bay pedestals; side steps 6'-0" in the middle west bay. Black metal handrails.
- 14 Guard. 36" black metal guard, kept for consistency. Not code-required at a 1'-8" deck.

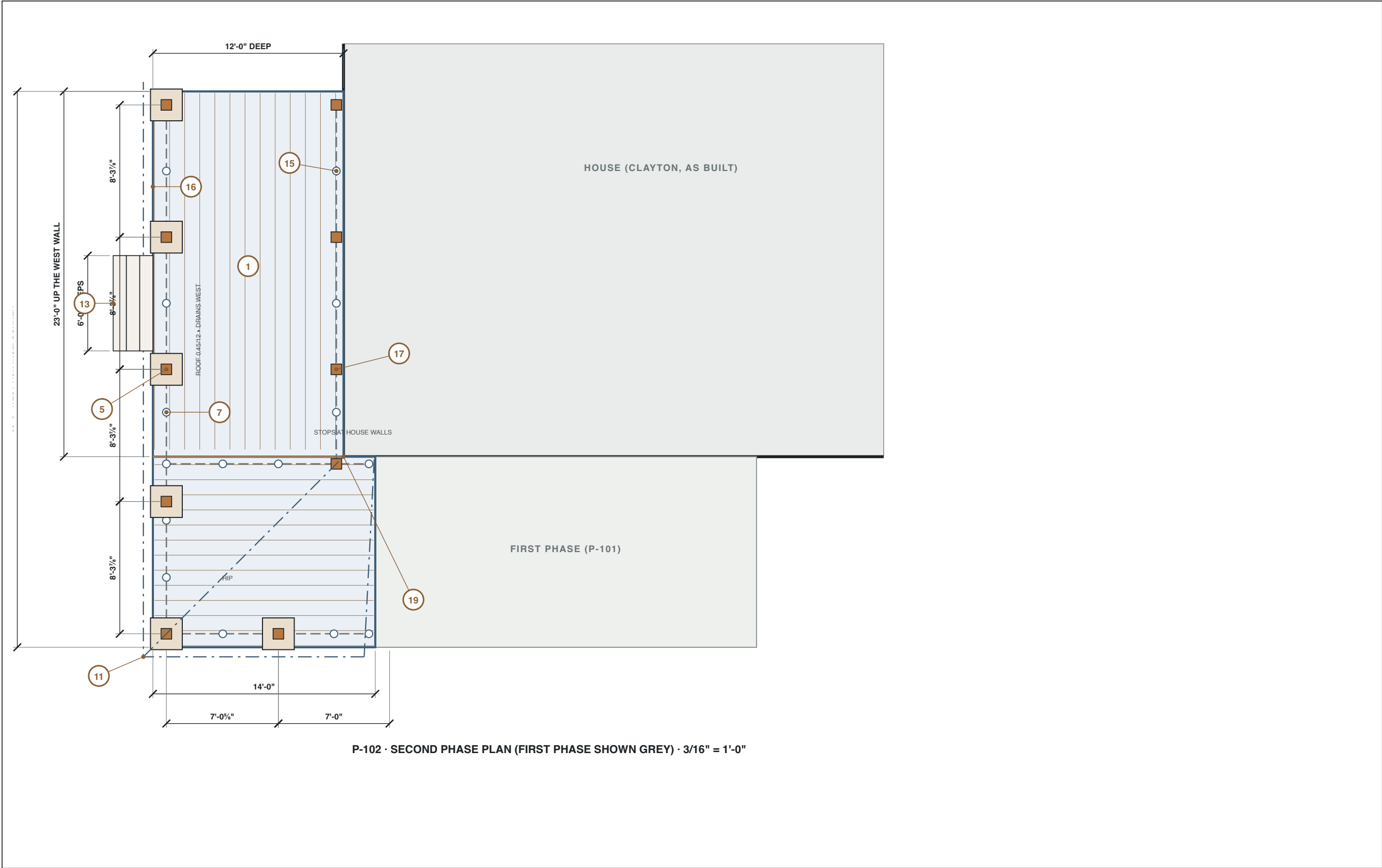
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P-201 · FIRST PHASE SOUTH ELEVATION · 1/4" = 1'-0"

SECTION A · THROUGH POST LINE 2, LOOKING WEST · 3/16" = 1'-0"



Second Phase · The 12' wrap

The same deck kit on helical piles; one 0.45/12 standing-seam roof that stops at the house walls; bolts on without re-framing the First Phase.

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KEYED NOTES

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- 5 Brick pedestal.** 24" × 24" × 30" over a concrete core that bears on the Superior wall (First Phase) or a pile cap (Second Phase), with a 2" stone cap.
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- 11 Standing-seam roof.** Galvalume, PVDF finish, charcoal. 6/12 gable; the 0.45/12 wrap is mechanically seamed double-lock, a panel rated for low slope. Snow guards over the steps and entry; ice-and-water membrane at eaves, valleys and the wall.
- 13 Steps.** Composite, 4 risers of 5", 10" treads. Front steps 5'-3 3/8" wide between the east-bay pedestals; side steps 6'-0" in the middle west bay. Black metal handrails.
- 15 Helical piles.** Galvanized shaft with a cap bracket, below the 42" frost line. Capacity, size and depth by the engineer; soils report first.
- 16 Vented skirt.** Composite slats with gaps, so the space under the wrap deck breathes.
- 17 Inner support.** 8x12 beam on 8x8 posts tight to the house (clad as trim), on piles. The wrap roof never bears on the Clayton wall.
- 19 SW corner.** The 0.45/12 wrap stops at the house wall lines, so nothing climbs onto the main roof. Where the main roof's west rake runs into the porch roof for its first 1 to 2 ft, trim that overhang or add a cricket.
- 20 Lateral bracing.** Not yet designed: a Clayton-approved tie at the house, steel post cores or knee braces, by the engineer.

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