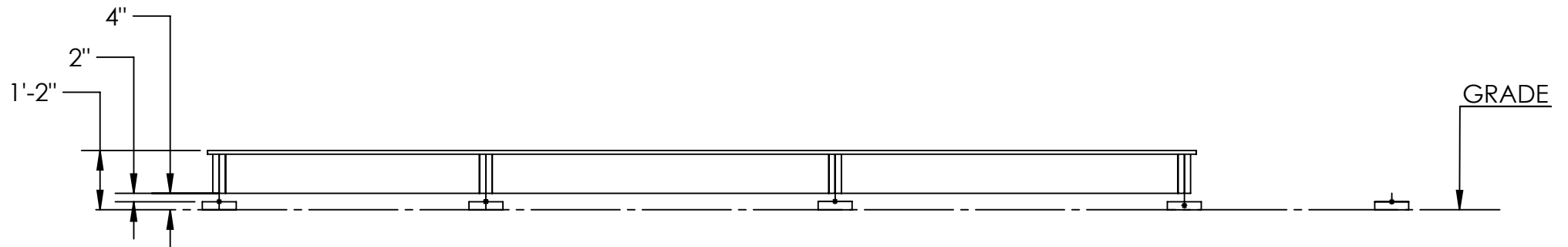


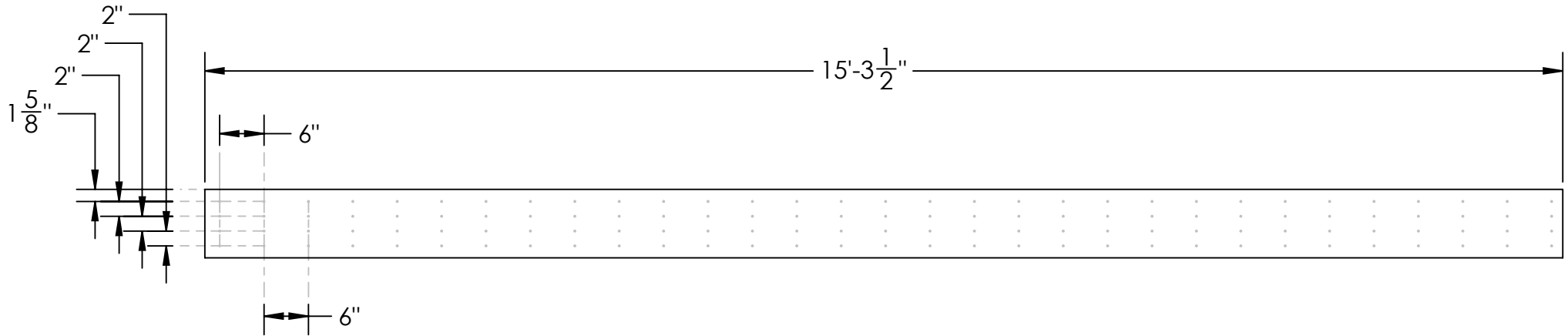
Side Projection



Toby Lawrence
731 Park St

20x16 backyard deck
(freestanding)

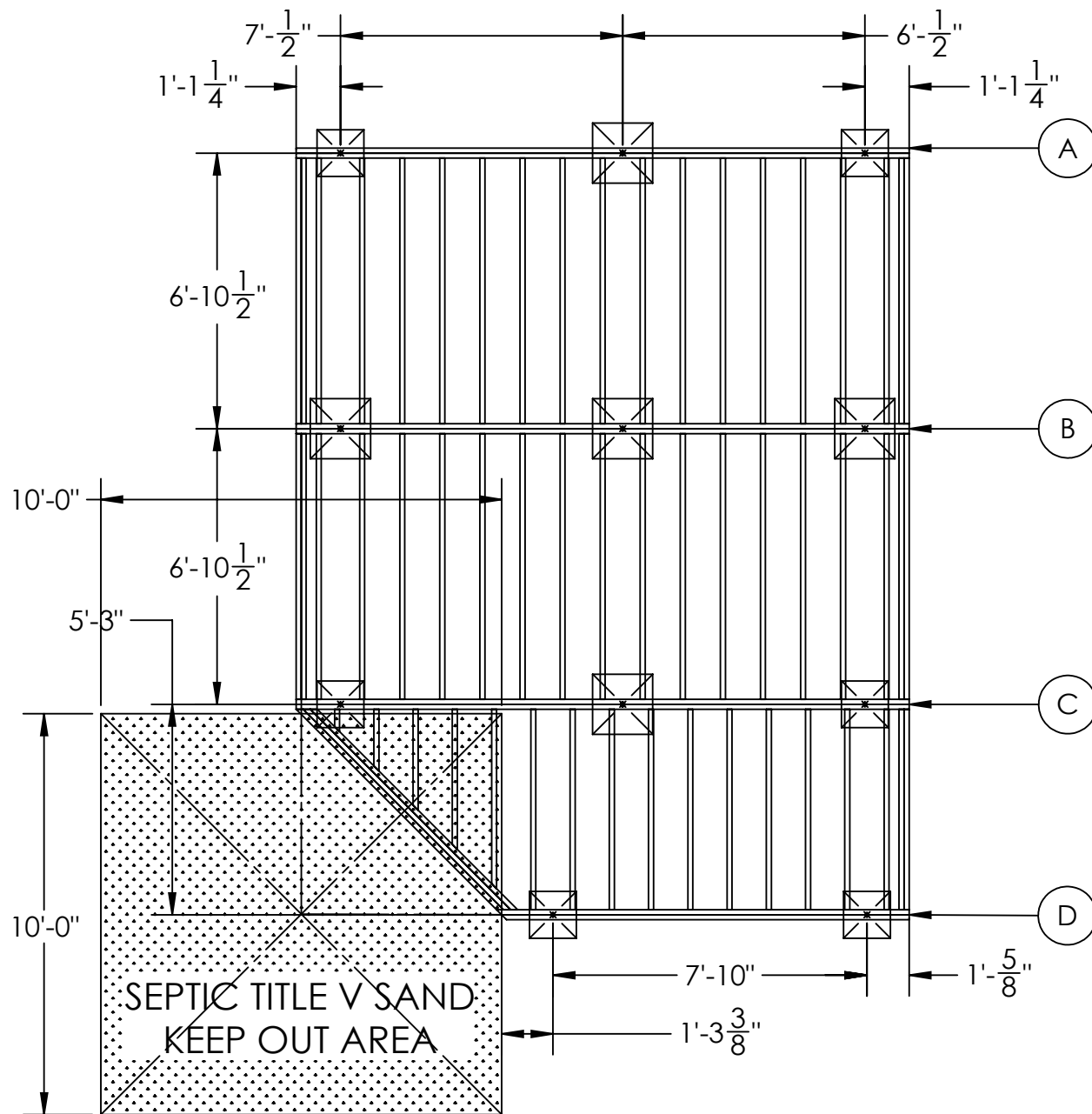
Beam Nailing Schedule/Build Up



1. Four 10d common nails per row, across the width.
2. Within row, nails spaced 2" from each other.
3. Within row, nails spaced 1 5/8" from edge of member.
4. First and last vertical row within 2" of end of beam.
5. Each row spaced 12" O.C. per side.
6. Nailed from both sides with 6" offset.
7. Effective spacing of 6" O.C. down length of beam.
8. Bead of premium outdoor constructive adhesive applied in zig-zag pattern between both plys. (Loctite PL400 Subfloor/Deck Adhesive or similar.)

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Pier/Footing Schedule

All piers 10" diameter, extending 2" from grade.

All footings 16" square, 6" thick, buried 12" deep on top of undisturbed soil with a minimum of 2" compacted gravel base.

Bearing capacity for various footing sizes on *General Calculations* page.

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20x16 backyard deck
(freestanding)

General Calculations

Concrete Piers (assumes 1500psf soil)

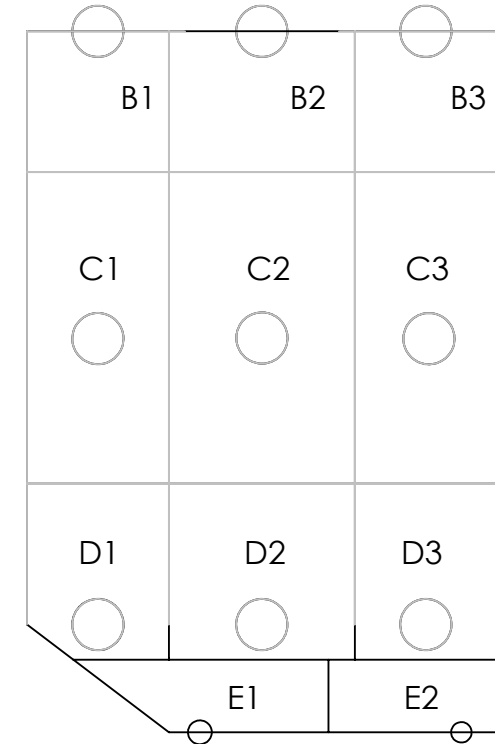
- 16" square footing w/ 10" circular pier
- 1.78 sq. ft. bearing area
 - ~162lbs dead load at 14" height (6" thick footing, pier 8" high)
 - bearing capacity of ~2500lbs after concrete dead load

Tributary Areas and Loads (based on design load)

Calculated dead load(deck only): ~7psf

Footing capacity safety margin: 10%

B1: 20 sq. ft., 1000lbs load
B2: 29 sq. ft., 1450lbs load
B3: 18 sq. ft., 900lbs load
C1: 39 sq. ft., 1950lbs load
C2: 45 sq. ft., 2250lbs load
C3: 36 sq. ft., 1800lbs load
D1: 26 sq. ft., 1300lbs load
D2: 40 sq. ft., 2000lbs load
D3: 32 sq. ft., 1600lbs load
E1: 15 sq. ft., 750lbs load
E2: 13 sq. ft., 650lbs load



(Drawing/placements not to scale)

Toby Lawrence
731 Park St

20x16 backyard deck
(freestanding)

