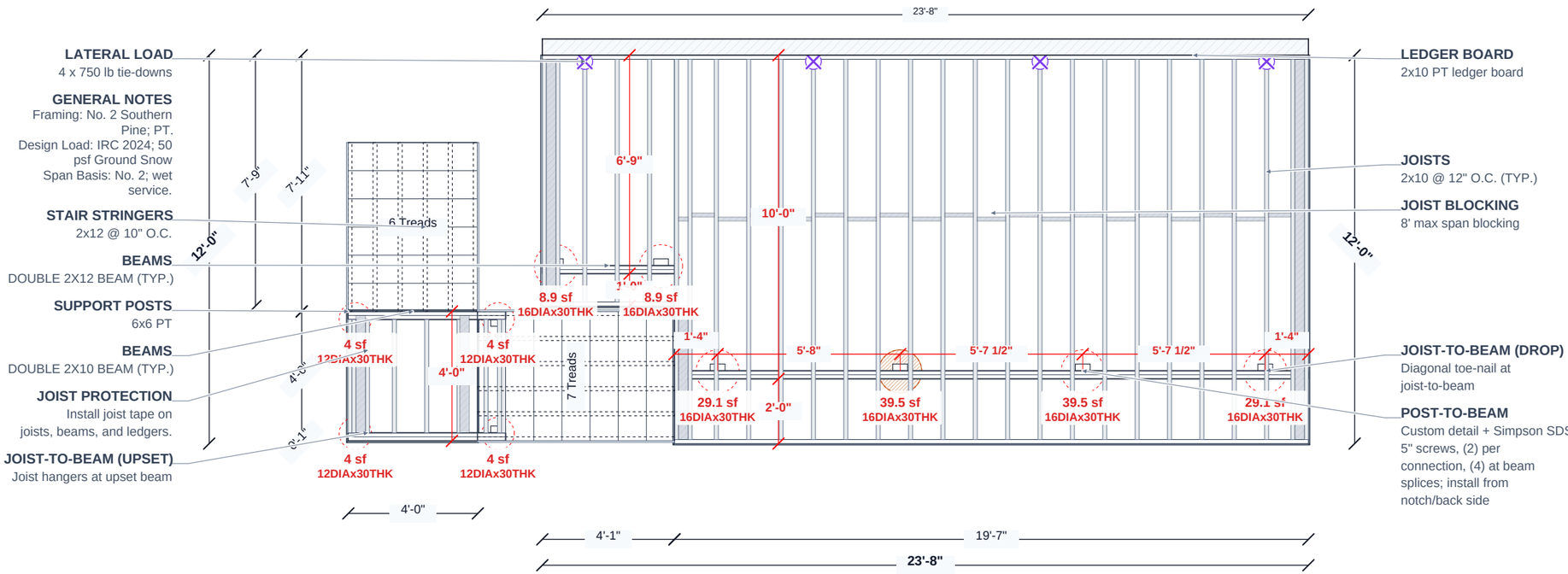



Company

**Sample Builder**

Customer

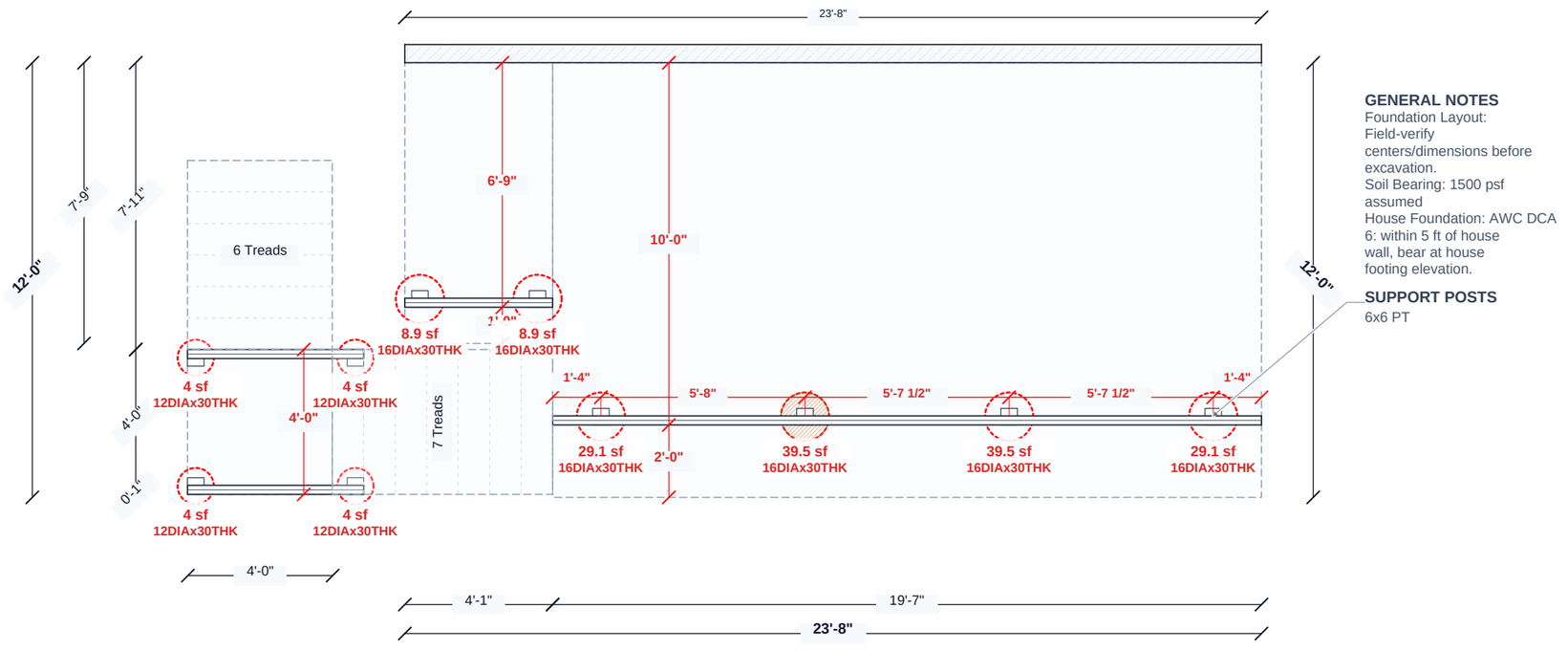
**Raised deck with stair landing**

View
**Framing View**

Scale
**1/4" = 1'-0" @ Tabloid**

Sheet
**1 of 8**

Date
**10/15/2026**




**GENERAL NOTES**
Foundation Layout:
Field-verify
centers/dimensions before
excavation.
Soil Bearing: 1500 psf
assumed
House Foundation: AWC DCA
6: within 5 ft of house
wall, bear at house
footing elevation.

**SUPPORT POSTS**
6x6 PT

Company

**Sample Builder**

Customer

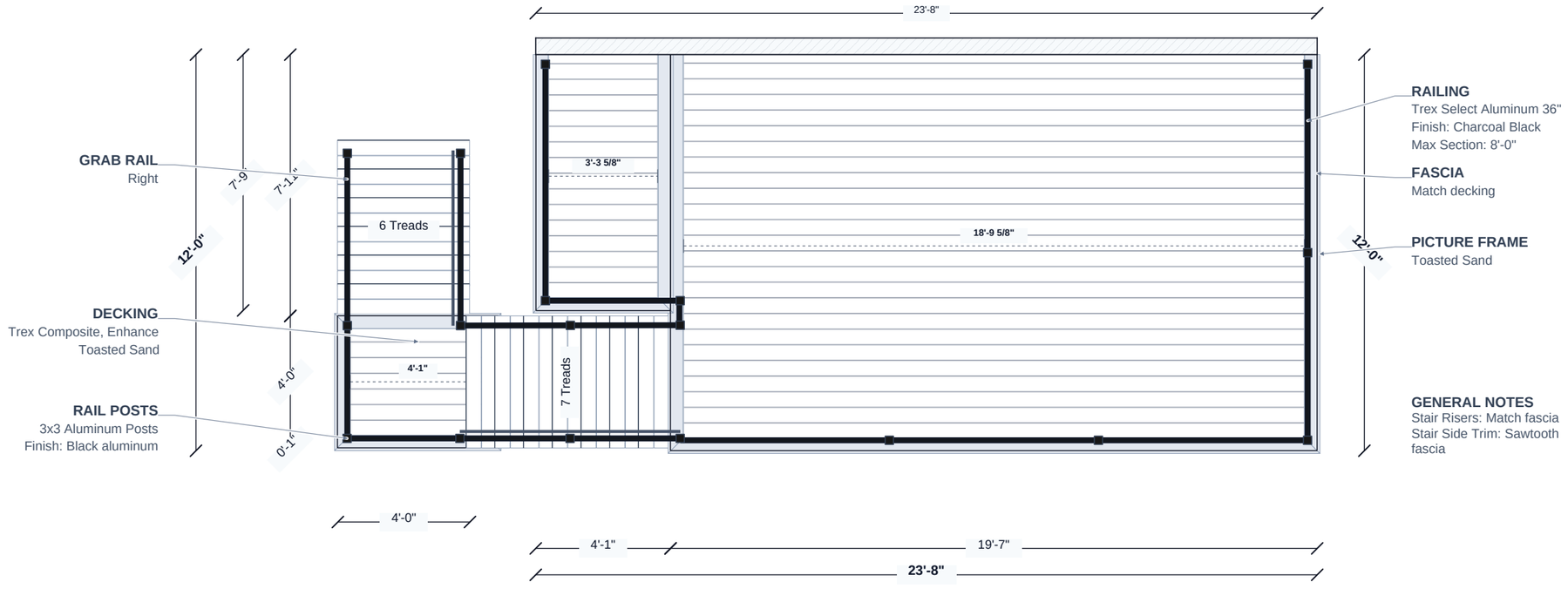
**Raised deck with stair landing**

View
**Foundation Plan**

Scale
**1/4" = 1'-0" @ Tabloid**

Sheet
**2 of 8**

Date
**10/15/2026**




**GRAB RAIL**
Right

**DECKING**
Trex Composite, Enhance
Toasted Sand

**RAIL POSTS**
3x3 Aluminum Posts
Finish: Black aluminum

**RAILING**
Trex Select Aluminum 36"
Finish: Charcoal Black
Max Section: 8'-0"

**FASCIA**
Match decking

**PICTURE FRAME**
Toasted Sand

**GENERAL NOTES**
Stair Risers: Match fascia
Stair Side Trim: Sawtooth fascia

Company

**Sample Builder**

Customer

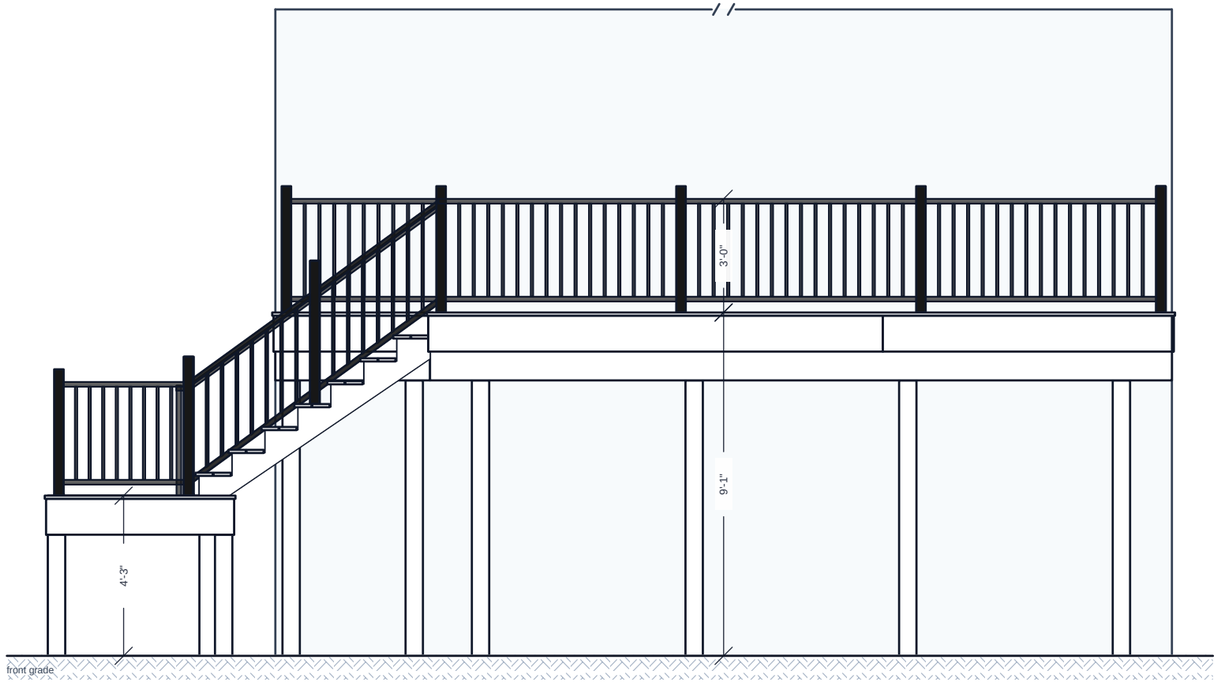
**Raised deck with stair landing**

View
**Decking View**

Scale
**1/4" = 1'-0" @ Tabloid**

Sheet
**3 of 8**

Date
**10/15/2026**




Company

Sample Builder

Customer

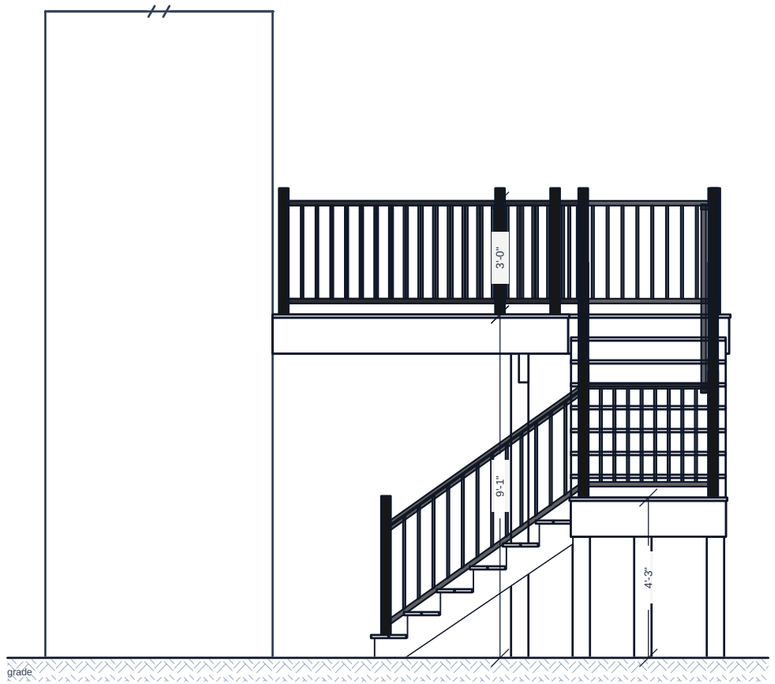
Raised deck with stair landing

View
Front Elevation

Scale
1/4" = 1'-0" @ Tabloid

Sheet
4 of 8

Date
10/15/2026




Company

Sample Builder

Customer

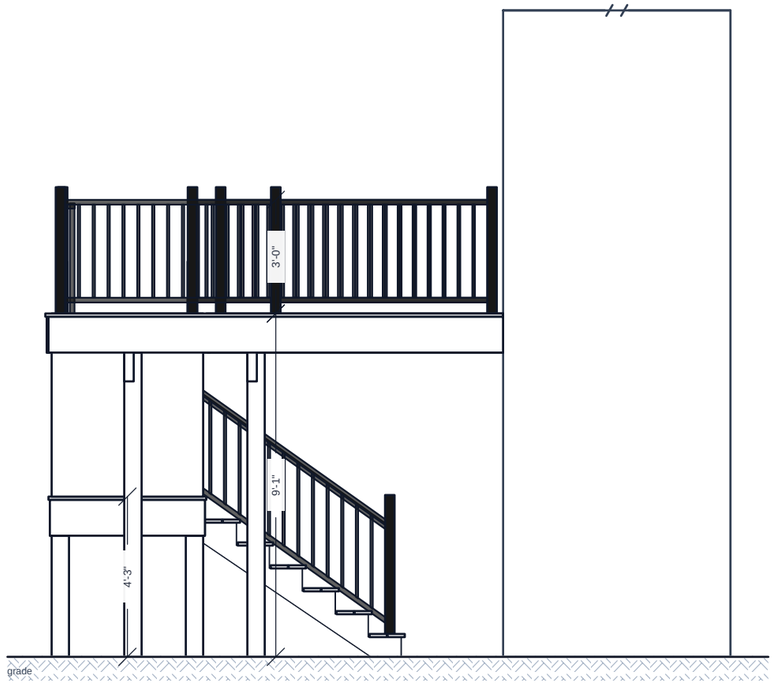
Raised deck with stair landing

View
Left Elevation

Scale
1/4" = 1'-0" @ Tabloid

Sheet
5 of 8

Date
10/15/2026




Company

Sample Builder

Customer

Raised deck with stair landing

View
Right Elevation

Scale
1/4" = 1'-0" @ Tabloid

Sheet
6 of 8

Date
10/15/2026

# Material Takeoff

| DECK AREA | STAIR AREA | TOTAL SURFACE | FOOTINGS | FOOTING CONCRETE | RAIL LENGTH | RAIL POSTS |
|---|---|---|---|---|---|---|
| 292.9 sf | 48.8 sf | 341.7 sf | 10 | 1.07 yd3 | 78.2 lf | 18 |

## Takeoff Basis

| Item | Qty | Unit | Notes |
|---|---|---|---|
| Wood framing grade: No. 2 | - | note | No. 2 standard dimensional PT deck and stair/ramp framing. Span basis: No. 2, wet service. Engineered beams retain their product grade. |

## Framing Lumber / Stock Lengths

| Item | Qty | Unit | Notes |
|---|---|---|---|
| 2x10 PT beam ply - 8' | 4 | pcs | |
| 2x10 PT front rim - 8' | 1 | pcs | Stock optimized across 2 runs. |
| 2x10 PT front rim - 20' | 1 | pcs | Stock optimized across 2 runs. |
| 2x10 PT full-depth blocking - 18' | 1 | pcs | 21 mid-span cuts, 16.83 lf; 1.17 lf stock offcut. Match joist material. |
| 2x10 PT joist - 8' | 14 | pcs | |
| 2x10 PT joist - 12' | 22 | pcs | |
| 2x10 PT ledger - 8' | 1 | pcs | Stock cut plan: 16'-0" + 7'-8". Takeoff Debug shows nominal splice locations; align field splices with supported manufacturer connections. Merged ledger run across 2 aligned bays. |
| 2x10 PT ledger - 16' | 1 | pcs | Stock cut plan: 16'-0" + 7'-8". Takeoff Debug shows nominal splice locations; align field splices with supported manufacturer connections. Merged ledger run across 2 aligned bays. |
| 2x12 PT beam ply - 8' | 2 | pcs | |
| 2x12 PT beam ply - 20' | 2 | pcs | |
| 6x6 PT support post - 8' | 4 | pcs | |
| 6x6 PT support post - 10' | 6 | pcs | |
| Flat blocking allowance - single picture frame | 30.63 | lf | 5 support runs; 2x4 flat shown. Support-run LF only; select purchase lumber. |

## Decking / Stock Lengths

| Item | Qty | Unit | Notes |
|---|---|---|---|
| Trex Enhance Toasted Sand, 5/4x6 grooved - 20' | 30 | pcs | |
| Trex Enhance Toasted Sand, 5/4x6 square-edge - 20' | 7 | pcs | Stair treads. |
| Trex Enhance Toasted Sand (picture-frame), 5/4x6 square-edge - 20' | 5 | pcs | |
| 11.375 x 0.56 in Trex Enhance fascia - Toasted Sand (fascia) - 12' | 8 | pcs | Source boards for deck fascia and stair sides. 15 installed cuts total across this product group, 93.4 lf. Cuts share compatible stock with 1/8 in saw kerf between length cuts. Stock: 12 ft. Verify supplier availability and installation details. |
| 1/2x8 composite stair riser board - Trex Enhance - Toasted Sand - 12' | 7 | pcs | 8" nominal risers from 12' stock: 7 boards / 13 @ 4'-1"; top riser from fascia. |

## Stair-Specific Items

| Item | Qty | Unit | Notes |
|---|---|---|---|
| 2x12 PT stair stringer - 8' | 6 | pcs | |
| 2x12 PT stair stringer - 10' | 6 | pcs | |
| Stair 1: 4.0' wide, 7 treads | 1 | ea | 6 stringers @ 10" O.C.; flush treads + side trim; nominal 8" risers (7.25" actual); top riser from fascia. |
| Stair 1: generated lower landing platform | 1 | ea | 4.9' x 4.0' framed/decked landing; follows picture-frame settings. |
| Stair 2: 4.0' wide, 6 treads | 1 | ea | 6 stringers @ 10" O.C.; flush treads + side trim; nominal 8" risers (7.25" actual); top riser from fascia. |

## Railing

| Item | Qty | Unit | Notes |
|---|---|---|---|
| Trex Select Aluminum level rail kit - 8'-0" | 4 | kits | Cuts: 1 @ 7'-2", 3 @ 6'-4"; infill included. |
| Trex Select Aluminum level rail kit - 6'-0" | 6 | kits | Cuts: 2 @ 5'-9", 1 @ 4'-1", 2 @ 3'-5", 1 @ 0'-9"; infill included. |
| Trex Select Aluminum stair rail kit - 8'-0" | 2 | kits | Cuts: 2 @ 6'-4"; infill included. |
| Trex Select Aluminum stair rail kit - 6'-0" | 4 | kits | Cuts: 4 @ 4'-1"; infill included. |
| 3x3 Aluminum Posts | 12 | ea | |
| 3x3 Aluminum Posts - longer stair rail post | 6 | ea | Downhill/intermediate posts +4"; upper landing post standard. |
| Surface-mounted guard-post connection allowance | 18 | sets | One allowance per modeled metal guard post, including stairs. Specify selected base fasteners, washers/back plate, blocking and block attachments per actual manufacturer/project detail. The surface-post reference drawing does not select exact hardware or blocking cuts; stair and corner supports require their own detail. |
| Stair grab rail | 2 | ea | 11.31 lf total; connectors listed separately. |
| Intermediate grab rail support bracket [VERIFY] | 1 | ea | One at each post between the rail ends; match profile and finish. |
| 90-degree grab rail return | 4 | ea | One at each non-wood grab-rail end. |

## Concrete + Footings

| Item | Qty | Unit | Notes |
|---|---|---|---|
| Concrete footing count | 10 | ea | Includes 10 deck support + 0 stair support |
| Concrete volume | 1.07 | cu yd | 48 x 80-lb bags or 64 x 60-lb bags |
| Concrete basis | 1 | note | Deck: configured footing sizes and project thickness. |

## Hardware + Connectors

| Item | Qty | Unit | Notes |
|---|---|---|---|
| 0.162 in x 3-1/2 in HDG connector nails - ABA66Z post bases | 80 | pcs | 8/base; 10 bases. Manufacturer nail schedule; approved SD substitutions replace nails. Match corrosion protection. |
| Concrete anchor / washer schedule - ABA66Z | - | review | ORDER REVIEW: 10 bases: select anchor type, length, embedment and required washer/nut hardware for the concrete and loads. Anchor hardware is not included. |
| Joist tape | 453.96 | lf | LF: 327.5 joists + 47.33 rims/ledgers + 31.67 beams + 47.46 feature blocking; add waste. |
| Z flashing - 8' | 3 | pcs | 23.67 net LF. |
| House flashing | 23.67 | lf | Order whole rolls. |
| Picture-frame screws / plugs | 82.17 | lf | LF allowance; follow screw / plug schedule. |
| #9 x 1-1/2" SD connector screws - tension ties | 24 | pcs | Simpson SD/SDS schedule; installed quantity. DTT2Z screws supplied in kit; avoid duplicate purchase. |
| 1/2" ledger lag screws | 18 | pcs | 23.7 lf @ generic 16" O.C.; verify approved connection schedule. |
| 1/2" washers (ledger lag screws) | 18 | pcs | 1 per ledger lag. |
| 750 lb deck tension tie (DTT1Z) | 4 | pcs | Per deck level; verify detail / fasteners. |
| 8d toe-nails - joist-to-beam | 81 | pcs | 3 threaded 8d per modeled dropped-beam bearing (AWC DCA6 Fig.6); verify project fastening and corrosion compatibility. |
| Composite/PVC hidden fastener boxes (~50 sf/box) | 5 | boxes | 247.53 sf field boards; features face-fastened separately. |
| Fascia/trim screws | 374 | pcs | 93.4 lf finish trim @ 4/lf (93.4 lf deck/stair trim). |
| 2x10 double outer-joist hanger (concealed flange) | 4 | pcs | Exterior packs; shared ledger packs use face-mount. Verify hanger / fasteners. |
| Joist hanger - face mount, upset beam (2x10) | 10 | pcs | Interior field joist at a straight upset beam; outer packs are separate. Verify hanger capacity and fasteners. |
| Joist hanger (2x10) | 25 | pcs | |
| Ledger corner angle - Simpson L90Z | 2 | pcs | One selected angle per eligible ledger corner, for butt or staggered layout. Confirm fit, loads, placement, and fasteners; angle fasteners are not included. Corner hangers follow the separate hardware choice. Fastening between plies follows the project detail. |
| Post base connector (ABA66Z) | 10 | pcs | Uses the selected project footing connector for modeled support posts. Verify anchor, uplift, reactions, corrosion exposure, and approval before ordering. |
| SD9112 #9 x 1-1/2" screws - LSCZ stringer connectors | 204 | pcs | 17 SD9112 per LSCZ (standard): 8 into header/rim + 8 into wide stringer face + 1 into bottom edge, second-to-last hole. Installed screw quantity; connector not a kit. Header attachment fasteners are separate. C-C-2026 p.321. |
| Simpson SDS 5" structural screws - post-to-beam | 20 | pcs | Custom estimate: two 5" SDS screws per post; four at splices. Placement, drive direction, embedment and splice fastening per project detail. |
| Stair stringer connector (LSCZ) | 12 | pcs | One LSCZ per modeled wood stringer per flight; standard screw installation. Verify C-C-2026 pp.320-321 framing/support conditions and loads. Header/support attachment remains a project detail. |
| Joist-hanger nails / screws | 390 | pcs | Estimate: 10/hanger. ORDER REVIEW: replace with the selected hanger nail/screw sizes and schedule. |
| Tension-tie house-anchor allowance | 4 | pcs | One anchorage set per location; verify substrate, embedment, length and kit contents. |

Stock pieces include optimized offcut. Added job allowances are identified in their rows. LF/SF are net unless noted. Full-depth blocking matches joist material. Flat-blocking LF measures support runs, not purchase lumber; select members for full bearing. Add unmodeled field blocking and waste.

Set stock and allowances in Job Details > Takeoff. Resolve order reviews before purchasing.

Company

**Sample Builder**

Customer

**Raised deck with stair landing**

View
**Material Takeoff**

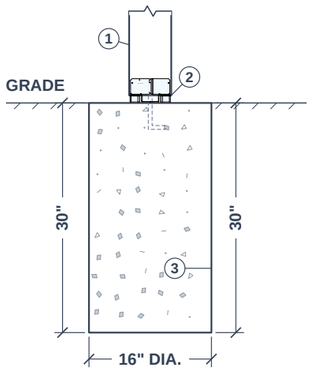
Scale
**NTS - Schedule**

Sheet
**7 of 8**

Date
**10/15/2026**

## 01 Footing detail

### FOOTING / POST SECTION



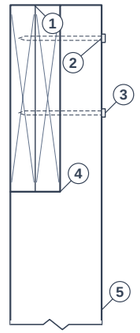

### CONNECTION SCHEDULE

1. **6x6 PT POST**
2. **POST BASE: SIMPSON ABA66Z**
3. **ROUND CONCRETE FOOTING**
   16" DIA. x 30" THICK

Footings within 5'-0" of house wall to bear at house foundation footing elevation.

## 02 Post-to-beam detail

### NOTCHED POST / SECTION



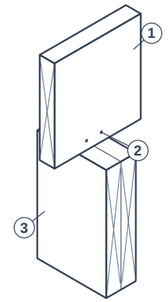

### CONNECTION SCHEDULE

1. **DOUBLE 2x12 BEAM**
2. **(2) 5" SIMPSON SDS**
   (4) AT SPLICES
3. **POST-SIDE DRIVE SHOWN**
4. **FULL NOTCH BEARING**
5. **6x6 PT POST**

**CUSTOM SDS CONNECTION / PLACEMENT AND SPLICES PER PROJECT DETAIL.**

## 03 Joist to dropped beam / double 2x12

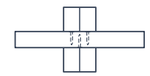
### DROPPED BEAM / BEARING



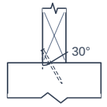

### CONNECTION SCHEDULE

1. **2x10 joist**
   12" O.C.
2. **Toe-nail connection**
   (3) 8d threaded
3. **DOUBLE 2X12**
   Full-width bearing

PATTERN / PLAN



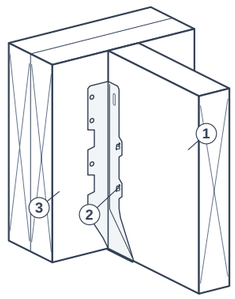
ENTRY / SECTION




DCA6 Fig.6: (3) threaded 8d nails per bearing; 2 one side, 1 opposite. Beam-ply fastening is separate.

## 04 Joist to upset beam / hanger / double 2x10

### UPSET BEAM / HANGER



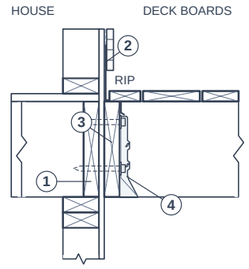

### CONNECTION SCHEDULE

1. **2x10 joist**
   12" O.C.
2. **Joist hanger**
   Fasteners per hanger schedule
3. **DOUBLE 2X10**
   Flush with joist top

LUS210 profile / C-C-2026 pp.112-115. Hanger and fasteners: project schedule.

## 05 Ledger to house detail

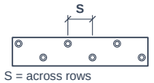
### JOIST END / SIDE ELEVATION




### CONNECTION SCHEDULE

1. **House rim**
2. **Flashing**
3. **2x10 ledger**
4. **Joist hanger**

### STAGGERED ROWS




S = across rows

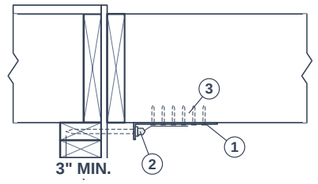
### 1/2" LAG SPACING / REFERENCE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Joist span up to (ft) | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| Max. spacing (in.) | 30 | 23 | 18 | 15 | 13 | 11 | 10 |

DCA6 Table 5 / Fig.19: 40 live + 10 dead psf; 2x8 ledger / 2x rim; 15/32" max. sheathing. Top/ends: 2" min.; bottom: 3/4" min.; rows: 5" max. Species, lower row, penetration: source. No veneer. Estimate: 16" O.C.

## 06 Lateral load connection detail

### WALL-PLATE INSTALLATION




### FASTENING SCHEDULE

1. **DTT1Z tension tie**
   4 locations / 750 lb each
2. **House anchor**
   House anchor per Simpson
3. **Connector fasteners**
   (6) #9 x 1-1/2" SD per tie

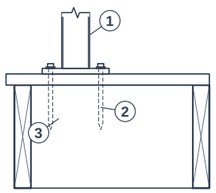
### UNDERSIDE / FASTENERS



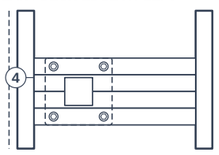
C-C-2026 p.326. Center anchor in upper wall plate; verify house framing.

## 07 Rail post to frame detail

### SURFACE POST / SECTION




### PLAN / DECK EDGE AT LEFT

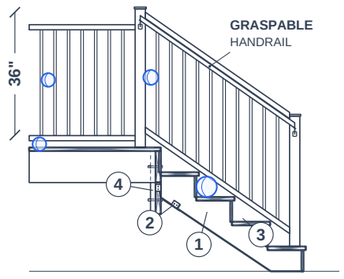



### CONNECTION SCHEDULE

1. **Post + base**
   Selected system
2. **Lags + washers**
   Size / count: selected base
3. **Full-depth blocks**
   2 doubled pairs / fit to base
4. **Blocking to joists**
   Project blocking fasteners

## 08 Stair stringer / rail detail

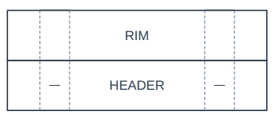
### STRINGER / GUARD ELEVATION




### CONNECTION KEY

1. **Cut stringer**
   2x12 / 10" O.C.
2. **LSCZ**
   17 SD9112 / connector
3. **Treads / risers**
   10 1/2" run / 7 1/4" rise

**4 HEADER**




Sphere must not pass: 4" deck / 4-3/8" stair / 6" step

**IRC 2021 / STAIR LIMITS** — **34-38" HANDRAIL**

**7 3/4" MAX RISE** — **10" MIN RUN** — **3/8" MAX VAR.**

SD9112 (#9 x 1-1/2): 8 rim + 8 side + 1 bottom.
LSCZ: C-C-2026 p.321. Stacked header: Trex ch.3; 2x supports per project.

## Material reports

| PRODUCT | REPORT |
|---|---|
| Decking<br>Trex Enhance | CCRR-0301 |
| Railing<br>Trex Select Aluminum | TER-2405-104 |

Company

**Sample Builder**

Customer

**Raised deck with stair landing**

View
**Typical Details**

Scale
**NTS - Details**

Sheet
**8 of 8**

Date
**10/15/2026**