Requirements:

- 5/16" lag screws are used to connect the steel ledger to the wood Rim Plate of the structure.
- Screws are long enough to penetrate through the entire thickness of the wood Rim Plate.
- The maximum length of unthreaded shank of the lag screws is 3/4 inch.
- The minimum length of unthreaded shank of the lag screws is 1/2 inch.
- Wood Rim Plate is assumed to be 1.5 in. thick and from southern pine (specific gravity of 0.55). 
- 5 in. end spacing is required from two ends of the wood Rim Plate.
- 2 or 3 rows of fasteners are considered.
- 1.5 in. minimum edge distance from the top and bottom fasteners to the edge of the wood Rim Plate is required.
- When 2 rows of lag screws are used, minimum vertical distance of 4 in. between the rows of fasteners is required.
- When 3 rows of lag screws are used, minimum vertical distance of 2 in. between the rows of fasteners is required.

### On Center Spacing -3/8" x 2.5" Hot-dipped Galvanized Lag Screws

<table>
<thead>
<tr>
<th>2 Screws</th>
<th>Joist Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined Load</td>
<td>1'</td>
</tr>
<tr>
<td>50 psi</td>
<td>24&quot;</td>
</tr>
<tr>
<td>75 psi</td>
<td>24&quot;</td>
</tr>
<tr>
<td>100 psi</td>
<td>24&quot;</td>
</tr>
<tr>
<td>Over 100 psi</td>
<td>Consult with your engineer or local building code official.</td>
</tr>
</tbody>
</table>

### On Center Spacing -3/8" x 2.5" Hot-dipped Galvanized Lag Screws

<table>
<thead>
<tr>
<th>3 Screws</th>
<th>Joist Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined Load</td>
<td>1'</td>
</tr>
<tr>
<td>50 psi</td>
<td>24&quot;</td>
</tr>
<tr>
<td>75 psi</td>
<td>24&quot;</td>
</tr>
<tr>
<td>100 psi</td>
<td>24&quot;</td>
</tr>
<tr>
<td>Over 100 psi</td>
<td>Consult with your engineer or local building code official.</td>
</tr>
</tbody>
</table>
FLUSH BEAM ATTACHMENT
JOIST ATTACHMENT SHARING FLUSH BEAM - SCENARIO
DROPPED BEAM NOTCHED POST ATTACHMENT
(WOOD POST ONLY)
DOUBLE DROPPED BOX BEAM ATOP POST ATTACHMENT

Double Box Beam-Dropped Scenario

(1) 1/2" x 5" carriage bolt @24" O.C. along beam span staggered pattern

LPC6Z or equivalent

P.T. 6 x 6 required or Trex Elevations Deck Support Post 5 1/2" x 5 1/2"

AC6Z or Equivalent Post Cap

Trex Elevations Joist
Block over beam every other bay use Trex Elevations Joist for blocking, L70Z or equivalent or integrated flange.

Trex Elevations Joist Railing Block

Deck Boards

Trex Elevations Track
Rim plate secure using TEKS select or XEQ #10 x 3/8" self-drilling fastener top and bottom of track thru joist

TEKS Select or
XEQ #10 x 3/8"
self-drilling
fastener typ.

(2) TEKS Select or
XEQ #10 x 3/8"
self-drilling
fastener thru beam

8"
(20.3cm)
DECK LEVEL CHANGE FLUSH BEAM SCENARIO

- TREX ELEVATIONS JOIST
- L70Z OR EQUIVALENT TYP.
- BOX BEAM - FLUSH SCENARIO
- LPC6Z OR EQUIVALENT POST CAP
- (2) 1/2" X 8" CARRIAGE BOLT @ EACH POST
- NOTCH POST FOR LOWER BEAM
- 6 X 6 TREATED POST (REQUIRED)
  (DO NOT NOTCH TREX ELEVATIONS DECK SUPPORT POST)

FASCIA
HEIGHT PER DESIGN

DECK BOARDS
DECK LEVEL CHANGE
ATTACH LEDGER TRACK WITH (2) 1" X 2" LAG SCREWS AT SUPPORT POST

BEAM - Dropped Scenario

TEKS SELECT OR XEQ #10 X 3/8" SELF-DRILLING FASTENER THRU BEAM

LPC4Z/LPC6Z OR EQUIVALENT POST CAP

AC4Z/AC6Z OR EQUIVALENT POST CAP

L70Z OR EQUIVALENT TYP.

P.T. 6 X 6 OR 4 X 4 OR TREX ELEVATIONS DECK SUPPORT POST
3 3/4" X 3 3/4" OR 5 3/4" X 5 3/4"

DECK LEVEL CHANGE LEDGER ATTACHMENT TO SUPPORT POST
INSIDE POST ATTACHMENT AT RIM JOIST

1. Secure post to rim joist with (2) 1/2" x 6" carriage bolts.

2. See Detail A for bolt pattern.

3. Use L70Z or equivalent type.

4. Secure track rim joist cap using Tek Select or XEQ #10 x 3/4" self-drilling fastener thru top and bottom of track @ 1/2" O.C. along span of joist.

5. Railing block and post are shown on the view.
inside post attachment at corner
RAIL POST

TREX ELEVATIONS JOIST

TREX ELEVATIONS TRACK

RAILING BLOCK

JOIST BLOCK ENTIRE WIDTH OF BAY

(2) 1/2" X 6" CARRIAGE BOLTS

SECURe POST TO RIM JOIST WITH (2) 1/2" X 6" CARRIAGE BOLTS

SEE DETAIL A FOR BOLT PATTERN

L70Z OR EQUIVALENT TYP.

TEKS SELECT OR XEQ #10 X 3/4" SELF-DRILLING FASTENER TYP.

RAIL POST MOUNTING BOLT PATTERN

DETAIL A

RAIL POST ATTACHMENT AT RIM PLATE
STRAIGHT STAIR SECTION - STAIR SHEET 1

STRAIGHT STAIR SECTION - STAIR SHEET 1

DECK BOARDS

RAIL POST

TREX ELEVATIONS

STRINGER TRACK

REAR STAIR BOX JOIST

CENTER STAIR BOX JOIST

STAIR BOX BLOCKING JOIST

TREX ELEVATIONS STRINGER JOIST

TREX ELEVATIONS STRINGER TRACK

STAIR BOX PERIMETER TRACK

HARD SURFACE-CONSULT YOUR LOCAL BUILDING DEPT.
**STAIR BOX ASSEMBLY - STAIR SHEET 2**

- **USE JIGSAW TO CUT NOTCH**
- **SEE TABLE A**
- **CUT RELIEF AS REQUIRED TO ACHIEVE DESIRED BEND ANGLE**

**TABLE A**

<table>
<thead>
<tr>
<th># OF DECK BOARDS</th>
<th>NO FASCIA</th>
<th>WITH 3/8 FASCIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>10.375&quot;</td>
<td>9.625&quot;</td>
</tr>
<tr>
<td>3</td>
<td>16.125&quot;</td>
<td>15.375&quot;</td>
</tr>
</tbody>
</table>

- **BEND AS REQUIRED**
- **SIDE PANEL**
- **STAIR BOX PERIMETER TRACK**
- **REAR STAIR BOX JOIST**
- **CENTER STAIR BOX JOIST**
- **STAIR BOX BLOCKING JOIST**
- **STAIR BOX PERIMETER TRACK**
- **TEKS SELECT OR XEQ #10 X 3/4" SELF-DRILLING FASTENER TYP.**
- **CENTER STAIR BOX JOIST**
- **REAR STAIR BOX JOIST**

- **CUT 20" SHORTER THAN CENTER STAIR BOX JOIST (OFFSET EQUALLY ON EACH END)**
- **STAIR BOX BLOCKING JOIST (OFFSET EQUALLY ON EACH END)**
- **TEKS SELECT OR XEQ #10 X 3/4" SELF-DRILLING FASTENER TYP.**

- **STAIR BOX ASSEMBLY - STAIR SHEET 2**

- **SIDE PANEL**
- **STAIR BOX PERIMETER TRACK**
- **REAR STAIR BOX JOIST**
- **CENTER STAIR BOX JOIST**
- **STAIR BOX BLOCKING JOIST**
- **STAIR BOX PERIMETER TRACK**

- **TEKS SELECT OR XEQ #10 X 3/4" SELF-DRILLING FASTENER TYP.**

- **CENTER STAIR BOX JOIST**
- **REAR STAIR BOX JOIST**
SEE DETAIL C1

STAIR BOX TYP.

STRINGER

STRINGER TRACK

STRINGER JOIST

STAIR BOX PERIMETER TRACK

DECKING PLANK

CENTER STAIR BOX JOIST

STAIR BOX BLOCKING JOIST

STAIR STRINGER

TEKS SELECT OR XEQ #10 X 3/4" SELF-DRILLING FASTENER FILL 4 HOLES MIN IN ST22 HANGAR

TEKS SELECT OR XEQ #10 X 3/4" SELF-DRILLING FASTENER TYP.

REAR STAIR BOX JOIST

ST 22 OR EQUIVALENT

FILL MIN 4 HOLES

DETAILED C1

STAIR STRINGER ASSEMBLY - STAIR SHEET 3
STAIR RAILING POST ATTACHMENT - STAIR SHEET 4
WOOD STAIR ATTACHMENT TO RIM PLATE

WOOD STAIR ATTACHMENT TO RIM JOIST CAP
MID-SPAN BLOCKING

TREX ELEVATIONS JOIST
ANGLED MID-SPAN BLOCKING USING L70Z OR EQUIVALENT TYP.

TREX ELEVATIONS JOIST
STANDARD MID-SPAN BLOCKING USING L70Z OR EQUIVALENT TYP.

LEAVE \( \frac{1}{6} \) GAP BETWEEN JOIST FLANGE AND BLOCKING

LEAVE \( \frac{1}{16} \) GAP BETWEEN JOIST FLANGE AND BLOCKING

SECTION A-A
STANDARD MID-SPAN BLOCKING

L70Z OR EQUIVALENT TYP.
Y - BRACING POST TO BEAM

TREX ELEVATIONS BEAM

Y-BRACE

RIM JOIST ASSEMBLY

Y-BRACE

BEAM CAP

POST

L70Z OR EQUIVALENT

TREX ELEVATIONS TRACK

TREX ELEVATIONS JOIST

POST

TREX ELEVATIONS BEAM

RIM JOIST ASSEMBLY

BEAM CAP

L70Z OR EQUIVALENT

TREX ELEVATIONS TRACK
NOTE:
DRILL 1/4" HOLES 1' ON CENTERS FOR ENHANCED DRAINAGE ALONG CENTERLINE OF BREAKER CAP.

SINGLE BREAKER BOARD FRAMING
FOR DOUBLE PLANK BORDER

FOR SINGLE PLANK BORDER

12" O.C. FASTENING IF RAILING IS PRESENT
24" O.C. FASTENING IF RAILING IS NOT PRESENT

TEKS SELECT OR XEQ #10 X 3" SELF-DRILLING THRU BORDER CAP AND RIM JOIST

TEKS SELECT OR XEQ #10 X 3" SELF-DRILLING FASTENER TYP. TOP AND BOTTOM @ 12" O.C. ALONG SPAN OF JOIST

SECTION A-A

FRAME FOR SINGLE AND DOUBLE BORDERS
NOTE:
DRILL 1/4" HOLES 1' ON CENTERS
FOR ENHANCED DRAINAGE ALONG CENTERLINE OF BREAKER CAP
## RELIEF CUT SCHEDULE
TREX ELEVATIONS TRACK TOP AND BOTTOM FLANGE

<table>
<thead>
<tr>
<th>RADIUS</th>
<th>RADIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'-0&quot; TO 5'-11&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td>5'-11&quot; TO 8'-11&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>8'-11&quot; TO 11'-11&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>11'-11&quot; TO 14'-11&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>14'-11&quot; AND ABOVE</td>
<td>10&quot;</td>
</tr>
</tbody>
</table>

**CURVED FRONT TRACK RIM PLATE**

- TREX ELEVATIONS JOIST
- RELIEF CUT SCHEDULE
- TEKS SELECT OR XEQ #10 X 3/4" SELF-DRILLING FASTENER TOP AND BOTTOM OF RIM TRACK THRU JOIST
- TREX ELEVATIONS TRACK RIM PLATE
JOIST SPLICE OVER DROPPED BEAM
UTILITY ACCESS THROUGH JOIST

C/L OF BEAM

18" MIN

3" MAX

3IN DIAMETER MAX

HOLES NOT PERMITTED WITHIN 18" OF LOAD BEARING POINT

BOX BEAM - DROPPED SCENARIO

C/L OF JOIST

ACCESS HOLE

TREX ELEVATIONS JOIST
DECK WITH STEEL POST

#6 SOLID COPPER WIRE
GROUND TO POST

6" GROUNDING ROD

GROUNDING CLAMP

STEEL POST

DECK WITH WOOD POST

#6 SOLID COPPER WIRE
GROUND TO TREX ELEVATIONS DECK FRAME

6" GROUNDING ROD

GROUNDING CLAMP

WOOD POST