**Fairfax County, Virginia**

**Typical Deck Details**

*Based on the 2003 Virginia Uniform Statewide Building Code*

CONTENTS

General Notes .................................................2
Decking Requirements......................................2
Joist Size........................................................3
Beam Size & Assembly Requirements .................4
Deck Framing Plan ...........................................5
Joist-to-Beam Connection .................................5
Joist Hangers ..................................................6
Post Requirements .........................................6
Rim Joist Requirements .................................6
Footings ................................................................7
Ledger Attachment Requirements .................7
Prohibited Ledger Attachments ....................9
Ledger Board Fasteners .................................9
Free-Standing Decks .................................11
Lateral Support of Free-Standing Decks .........11
Guard Requirements ..................................12
Guard Post Attachments ................................13
Stair Requirements ..................................15
Stair Handrail Requirements ..................17
Stair Footing Requirements ..........................17
Stair Lighting Requirements ..................18
Framing at Chimney or Bay Window ...........18

**THE USE OF THIS PACKAGE IN LIEU OF SUBMITTED DRAWINGS APPLIES TO SINGLE SPAN, SINGLE LEVEL, RESIDENTIAL DECKS ONLY. DECKS MUST BE CONSTRUCTED IN CONFORMANCE WITH THE DETAILS CONTAINED HEREIN. A COPY OF THIS DECK DETAIL MUST BE ON THE JOB SITE AND AVAILABLE TO THE INSPECTOR DURING THE INSPECTION PROCESS.**
GENERAL NOTES

1. Unless noted otherwise in within these details, all lumber shall be southern pine, grade #2 or better and shall be pressure treated ACQ or CA-B in accordance with American Wood-Preservers' Association standards. All lumber in contact with the ground shall be rated as "ground-contact." Please note: not all treated lumber is rated for ground contact.

2. All nails shall be ring-shanked or annular grooved.

3. All screws and nails shall be hot-dipped galvanized or stainless steel.

4. All hardware (joist hangers, cast-in-place post anchors, mechanical fasteners, etc.) shall be galvanized with 1.85 oz/sf of zinc (G-185 coating) or shall be stainless steel. Look for products such as "Zmax" from Simpson Strong-Tie or "Triple Zinc" from USP.

5. Decks constructed in accordance with these details are not approved for future hot tub installations.

6. Conditions which do not meet these details will require a plan submission.

7. Inspections:
   - A footing, framing, and final inspection are required on all decks.
   - Footing inspections are required PRIOR to the placement of concrete. At the time of the footing inspection, you must have the ledger board attached to the existing house.
   - Framing and final inspections may be combined if all portions of the deck framing and mechanical attachments are at least 48" above grade.
   - Inspections are required by law. Failure to receive any and all inspections can result in the issuance of violations which may lead to legal proceedings.

8. It is the responsibility of the permit holder or the permit holder's representative to notify the county when the stages of construction are reached that require an inspection. Inspection requests may be made using one of the methods listed below; please have your permit number available when scheduling an inspection. Requests made up to 11:59 p.m. on automated systems can be scheduled for the next business day.
   - Inspection Request Center: 703-222-0455, TTY 711, 8 a.m. to 4:30 p.m., Monday – Thursday, and 9:15 a.m. to 4:30 p.m. on Fridays.
   - Fairfax Inspections Database Online (FIDO): www.fairfaxcounty.gov/fido or call 703-222-2474.

9. Decks shall not be used or occupied until a final inspection approval is obtained.

DECKING REQUIREMENTS

All decking material shall be composed of 2x6 or 5/4 ("five-quarter") board. Attach decking to each joist with a minimum of (2) 8d nails or (2) #8 screws. See FIGURE 11 for decking connection requirements at the rim joist. Decking may be placed from an angle perpendicular to the joists to an angle of 45 degrees to the joists.

Decking composed of foreign lumber, plastic or manufactured materials may be substituted only when the product has an approved evaluation report from an accredited testing laboratory which has listed the product. For a list of approved products, go to the website below.

www.fairfaxcounty.gov/dpwes/construction/str_plastics.htm

The evaluation report must be on the jobsite and available to the inspector during the inspection process. Installation and span lengths of the substituted material must be in strict conformance with the evaluation report and the manufacturer's instructions. All decking products must be capable of supporting a live load of 40 pounds per square feet.
**JOIST SIZE**

The span of a joist is measured from the centerline of bearing at one end of the joist to the centerline of bearing at the other and does not include the length of the overhangs. Use TABLE 1 to determine your joist size based on span length and joist spacing. See FIGURE 1 through FIGURE 3 for joist span types.

**FIGURE 1: JOIST SPAN - DECK ATTACHED AT HOUSE**

**FIGURE 2: JOIST SPAN - JOISTS ATTACHED TO SIDE OF BEAM**

**FIGURE 3: JOIST SPAN - FREE-STANDING DECK**
TABLE 1: MAXIMUM JOIST SPANS (excludes overhangs)

<table>
<thead>
<tr>
<th>Joist Size</th>
<th>Joist Spacing, on center</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12&quot;</td>
</tr>
<tr>
<td>2x6</td>
<td>11'-1&quot;</td>
</tr>
<tr>
<td>2x8</td>
<td>14'-4&quot;</td>
</tr>
<tr>
<td>2x10</td>
<td>17'-10&quot;</td>
</tr>
<tr>
<td>2x12</td>
<td>18'-0&quot;</td>
</tr>
</tbody>
</table>

1 Spans are based on 40 PSF live load, 10 PSF dead load, southern pine #2, normal loading duration, wet service conditions and deflection: \( \Delta = l/360. \)

**BEAM SIZE & ASSEMBLY REQUIREMENTS**

The determination of beam size is based on the characteristics of the joist, i.e., span length and overhang. Use TABLE 2 to determine your beam size; see FIGURE 4 for beam span types.

**TABLE 2: MINIMUM BEAM SIZE**

<table>
<thead>
<tr>
<th>Joist Span</th>
<th>Beam Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>when joists overhang beam</td>
</tr>
<tr>
<td>0 - 6'-0&quot;</td>
<td>(2) 2x8</td>
</tr>
<tr>
<td>6'-1&quot; - 11'-2&quot;</td>
<td>(2) 2x10</td>
</tr>
<tr>
<td>11'-3&quot; - 12'-8&quot;</td>
<td>(2) 2x10</td>
</tr>
<tr>
<td>12'-9&quot; - 16'-0&quot;</td>
<td>(2) 2x12</td>
</tr>
<tr>
<td>16'-1&quot; - 18'-0&quot;</td>
<td>(2) 2x12</td>
</tr>
</tbody>
</table>

* You may substitute a larger beam size for the one shown in the table. For instance, if the table requires (2) 2x8, you may substitute a (2) 2x10 or (2) 2x12.

The beam is assembled by attaching the two members identified in the tables above in accordance with FIGURE 5.
DECK FRAMING PLAN

A framing plan shows a bird's-eye view of the joist and beam layout; the location of the ledger board, posts and footings, and the type, size and spacing of the ledger board fasteners. See FIGURE 6 for an example of a typical deck framing plan.

FIGURE 6: TYPICAL DECK FRAMING PLAN

JOIST-TO-BEAM CONNECTION

Each joist shall be attached to the beam as shown in FIGURE 7. Use Option 1 or Option 2 when joists bear on or overhang past the beam; see FIGURE 1 and FIGURE 3. Use Option 3 when joists attach to the side of the beam; see FIGURE 2. See JOIST HANGERS on Sheet 6 for more information.

FIGURE 7: JOIST-TO-BEAM DETAIL
JOIST HANGERS

Joist hangers, as shown in FIGURE 8, shall have a minimum capacity of 1000 lbs each. The depth and width of the joist hanger shall equal the dimensions of the member it is carrying. Joist hangers shall be galvanized with 1.85 oz/sf of zinc (G-185 coating) or stainless steel.

Use joist hangers with inside flanges when clearances to the edge of the beam or ledger board dictate.

Do not use clip angles or brackets to support framing members. Do not bend hanger flanges to accommodate conditions at ledger.

POST REQUIREMENTS

All deck post sizes shall be 6x6, and the maximum height shall be 14'-0". The beam shall be attached to the post by notching the 6x6 as shown in FIGURE 9. All through-bolts shall have washers at the bolt head and nut. Attachment of the beam to the side of the post without notching is prohibited; see FIGURE 10.

RIM JOIST REQUIREMENTS

Attach a continuous rim joist to the ends of joists as shown in FIGURE 11. Attach decking to the rim joist as shown in FIGURE 11. For more decking attachment requirements, see DECKING REQUIREMENTS on Sheet 2.
FOOTINGS
See FIGURE 12 for footing size, footing thickness and post attachment options and requirements. All footings shall bear on solid ground; bearing conditions shall be verified in the field by county inspectors prior to placement of concrete. DECK FOOTINGS CLOSER THAN 5'-0" TO AN EXISTING EXTERIOR HOUSE WALL MUST BEAR AT THE SAME ELEVATION AS THE FOOTING OF THE EXISTING HOUSE FOUNDATION.

Do not construct footings over utility lines or enclosed meters. Call Miss Utility at 1-800-552-7001 before you dig.

FIGURE 12: TYPICAL FOOTING DETAILS

LEDGER ATTACHMENT REQUIREMENTS

GENERAL: Attach the ledger board, which shall be greater than or equal to the joists size, to the existing exterior wall in accordance with FIGURE 14 through FIGURE 16. When attachments are made to the existing house band board, the band board shall be capable of supporting the new deck. If this cannot be verified or conditions at the existing house differ from the details herein, then a free-standing deck is required. See FREE-STANDING DECKS on Sheet 11.

YOU MUST VERIFY THE EXISTING CONDITIONS IN THE FIELD PRIOR TO APPLYING FOR A BUILDING PERMIT. COMPLIANCE WITH ALL THE REQUIREMENTS HEREIN IS CRITICAL TO ENSURE THE STRUCTURAL STABILITY OF YOUR DECK AND THE SAFETY OF YOU AND YOUR FAMILY.

SIDING AND FLASHING: House siding, or the exterior finish system, must be removed prior to the installation of the ledger board. Flashing is required at any ledger board connection to a wall of wood framed construction and shall be composed of copper (attached using copper nails), stainless steel, UV resistant plastic or galvanized steel coated with 1.85 oz/sf of zinc (G-185 coating). See FIGURE 14 for continuous flashing with drip edge.

WOOD I-JOISTS: Many new homes constructed with wood I-joists, see FIGURE 13, have a 1-1/4" manufactured solid band board that can support the attachment of a deck; see FIGURE 14. However, older homes constructed with wood I-joists may only have a plywood band board which cannot support a deck. In such cases a free-standing deck is required. See FREE-STANDING DECKS on Sheet 11.

FIGURE 13: WOOD I-JOIST PROFILE
FIGURE 14: ATTACHMENT OF LEDGER BOARD-TO-BAND BOARD

FIGURE 15: ATTACHMENT OF LEDGER BOARD-TO-FOUNDATION WALL (CONCRETE OR SOLID MASONRY)

FIGURE 16: ATTACHMENT OF LEDGER BOARD-TO-FOUNDATION WALL (HOLLOW MASONRY)
PROHIBITED LEDGER ATTACHMENTS

Attachments to the ends of pre-manufactured open web joists, to brick veneers or chimneys, and to house overhangs or bay windows are strictly prohibited; see FIGURE 17 through FIGURE 19. In such cases the deck shall be free-standing. See FREE-STANDING DECKS on Sheet 11.

**FIGURE 17: NO ATTACHMENT TO OPEN WEB TRUSSES**

**FIGURE 18: NO ATTACHMENT TO OR THROUGH BRICK VENEER**

**FIGURE 19: NO ATTACHMENT TO HOUSE OVERHANG**

LEDGER BOARD FASTENERS

Ledger board fasteners shall be installed in accordance with FIGURE 20 and the spacing in TABLE 3. Only those fastener types noted herein are approved for use; LEAD ANCHORS ARE STRICTLY PROHIBITED. The ledger board must be installed at the time of the footing inspection; adequacy of connections will be verified by county inspectors. If a ladder is required to access the ledger board, one must be provided by the property owner, permit holder, or their representative.

**FIGURE 20: LEDGER BOARD FASTENER SPACING AND CLEARANCES**

<table>
<thead>
<tr>
<th>Joist Span</th>
<th>Lag Screws</th>
<th>Approved Wood Screws</th>
<th>Bolts, Expansion Anchors</th>
<th>Approved Epoxy Anchors</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 6'-0&quot;</td>
<td>30&quot;</td>
<td>12&quot;</td>
<td>36&quot;</td>
<td>32&quot;</td>
</tr>
<tr>
<td>6'-1&quot; - 8'-0&quot;</td>
<td>23&quot;</td>
<td>10&quot;</td>
<td>36&quot;</td>
<td>32&quot;</td>
</tr>
<tr>
<td>8'-1&quot; - 10'-0&quot;</td>
<td>18&quot;</td>
<td>8&quot;</td>
<td>34&quot;</td>
<td>32&quot;</td>
</tr>
<tr>
<td>10'-1&quot; - 12'-0&quot;</td>
<td>15&quot;</td>
<td>6&quot;</td>
<td>29&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>12'-1&quot; - 14'-0&quot;</td>
<td>13&quot;</td>
<td>6&quot;</td>
<td>24&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>14'-1&quot; - 16'-0&quot;</td>
<td>11&quot;</td>
<td>5&quot;</td>
<td>21&quot;</td>
<td>16&quot;</td>
</tr>
<tr>
<td>16'-1&quot; - 18'-0&quot;</td>
<td>10&quot;</td>
<td>4&quot;</td>
<td>19&quot;</td>
<td>16&quot;</td>
</tr>
</tbody>
</table>

*See Sheet 10 for fastener specifications.
Through-Bolts
Through-bolts shall have a minimum diameter of $\frac{1}{2}$". Pilot holes for through-bolts shall be $\frac{17}{32}$" to $\frac{9}{16}$" in diameter. Through-bolts must be equipped with washers at the bolt head and nut.

Expansion Anchors
Use expansion anchors when attaching a ledger board to a concrete or solid masonry wall as shown in FIGURE 15. Bolt diameters of the anchors shall be a minimum of $\frac{1}{2}$"; in some cases, this may require an anchor size of $\frac{5}{8}$". Minimum embedment length shall be 2-1/2". Expansion anchors must have washers. Approved epoxy anchors may be substituted for expansion anchors; see below for minimum requirements.

Epoxy Anchors
When attaching to hollow masonry use one of the approved epoxy anchors listed in TABLE 4 and install as shown in FIGURE 16. Epoxy anchors shall have a minimum diameter of $\frac{1}{2}$" and minimum embedment length of 3-1/2". Installation shall be in strict conformance to the manufacturer's instructions. Epoxy anchors must have washers.

**TABLE 4: APPROVED EPOXY ANCHORS**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITW Ramset/Red Head</td>
<td>Epon Acrylic 7</td>
</tr>
<tr>
<td>Hilti</td>
<td>HY-20</td>
</tr>
</tbody>
</table>

Lag Screws
Lag screws shall have a minimum diameter of $\frac{1}{2}$" and shall be hot-dipped galvanized or stainless steel. Lag screws may be used only when the field conditions match those shown in FIGURE 14. See FIGURE 21 for lag screw length and shank requirements. All lag screws shall be installed with washers.

**FIGURE 21: LAG SCREW REQUIREMENTS**

LAG SCREW INSTALLATION REQUIREMENTS: Each lag screw shall have pilot holes drilled as follows:
1) Drill a $\frac{1}{2}$" diameter hole in the ledger board, 2) Drill a $\frac{5}{16}$" diameter hole into the solid connection material of the existing house. DO NOT DRILL A $\frac{1}{2}$" DIAMETER HOLE INTO THE SOLID CONNECTION MATERIAL.

The threaded portion of the lag screw shall be inserted into the pilot hole by turning. DO NOT DRIVE WITH A HAMMER. Use soap or a wood-compatible lubricant as required to facilitate tightening. Each lag screw shall be thoroughly tightened snug, but shall not be overly tightened so as to cause wood damage.

Wood Screws
The approved wood screws listed in TABLE 4 are similar to lag screws and have an integrated washer. However, no pilot holes are required for installation. The screws shall have a minimum diameter not less than $\frac{1}{4}$" and shall be of sufficient length to fully penetrate the existing house band board. Installation shall be in strict conformance with the manufacturer's instructions.

**TABLE 5: APPROVED WOOD SCREWS**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>FastenMaster</td>
<td>LedgerLok</td>
</tr>
<tr>
<td>Simpson Strong-Tie</td>
<td>Strong-Drive Screw (SDS)</td>
</tr>
</tbody>
</table>
FREE-STANDING DECKS

Decks which are free-standing do not utilize the exterior wall of the existing house to support vertical loads; instead, an additional beam with posts is provided at or within 3'-0" of the existing house. THE ASSOCIATED DECK POST FOOTINGS SHALL BE PLACED AT THE SAME ELEVATION AS THE EXISTING HOUSE FOOTING. See FIGURE 3 and FIGURE 22. Beam size is determined by TABLE 2.

![Diagram of a free-standing deck](image)

**FIGURE 22: FREE-STANDING DECK**

LATERAL SUPPORT OF FREE-STANDING DECKS

Free standing decks greater than 2 feet above grade shall resist lateral loading and horizontal movement by providing diagonal bracing or by attaching the deck to the exterior wall of the house.

![Diagram of diagonal bracing requirements](image)

**FIGURE 23: DIAGONAL BRACING REQUIREMENTS**

Diagonal Bracing: Provide diagonal bracing both parallel and perpendicular to the beam at each post as shown in FIGURE 23. When parallel to the beam, the bracing shall be bolted to the post at one end and beam at the other. When perpendicular to the beam, the bracing shall be bolted to the post at one end and a joist at the other. When a joist does not align with the bracing location, provide blocking between the next adjacent joists; attach as noted in the figure.
**Attachment to House:** Attach the deck rim joist to the existing house exterior wall as shown in FIGURE 24. The wall must be sheathed with a minimum 3/8" structural panel sheathing. Use lag screws or through-bolts when fastening to an existing band board or wall stud; use expansion anchors or epoxy anchors when fastening to concrete or masonry. **LEAD ANCHORS ARE STRICTLY PROHIBITED. DO NOT USE THIS ATTACHMENT METHOD IF A BRICK VENEER IS PRESENT. YOU MUST VERIFY THIS CONDITION IN THE FIELD PRIOR TO UTILIZING THIS METHOD.** Fasteners shall be 16" on center and staggered in 2 rows. Flashing over the rim joist is required and must be installed in accordance with the flashing provisions on Sheet 7.

![Figure 24: Attachment to House Lateral Support](image)

**GUARD REQUIREMENTS**

All decks greater than 30" above grade are required to have a guard. If you are providing a guard when one is not required, it must meet these requirements. All guards shall be constructed in strict conformance with details herein; any deviations require a plan submission.

![Figure 25: Typical Guard Detail](image)
The guard cap may be composed of an approved foreign lumber, plastic or composite material provided the product has an approved evaluation report from an accredited testing laboratory which has listed the product. For a list of approved materials, go to the website below. The evaluation report must be on the jobsite and available to the inspector during the inspection process.

Any guard wholly comprised of a pre-fabricated wood, plastic, composite or manufactured guard system purchased from a home center store, lumber company or similar will require a plan submission. ONLY THOSE SYSTEMS LISTED BY AN ACCREDITED TESTING AGENCY ARE APPROVED FOR USE IN FAIRFAX COUNTY. For a list of approved products, go to the website below.

www.fairfaxcounty.gov/dpwes/construction/str_plastics.htm

**FIGURE 26: PROHIBITED NOTCHING AT GUARD POSTS**

**FIGURE 27: GUARD POST ATTACHMENT DETAIL**

**GUARD POST ATTACHMENTS**

**GUARD POST TO OUTSIDE-JOIST:** Guard posts for guards which run parallel to the deck joists (side of deck) shall be attached to the outside-joist per FIGURE 28.
GUARD POST TO RIM JOIST: Use one of the options shown in FIGURE 29 through FIGURE 31 to attach a guard post to a rim joist. See FIGURE 11 for rim joist-to-deck joist and decking-to-rim joist attachment requirements.

OPTION 1: As shown in FIGURE 29, guard posts are attached to the inside face of the rim joists. To attach guard post to the outside of the rim joist, see OPTION 2 or OPTION 3.

OPTION 2: As shown in FIGURE 30, hold-down anchors must be installed to attach the rim joist to the deck joists. There shall be a minimum of two bolts at the anchors’ attachment to the joist. Look for the following hot-dipped galvanized anchors: HD2A from Simpson Strong-Tie, HD2A from USP and DeckLok from Morse Technologies. Other hold-down anchor models meeting the minimum requirements may also be used.
OPTION 3: As shown in FIGURE 31, the rim joist must be fastened to deck joists with two 20 gage stud tie plates attached per the manufacturer's instructions with hot-dipped galvanized or stainless steel fasteners. Look for model number SP1 in a Zmax coating from Simpson Strong-Tie or model number SPT22 in a Triple Zinc coating from USP. Other stud tie plate models meeting the minimum requirements may also be used.

STAIR REQUIREMENTS

Stairs, stair stringers, and stair guards shall meet the requirements shown in FIGURE 32 through FIGURE 38. All stair stringers shall be 2x12 and shall not span more than the dimensions shown in FIGURE 33. If the span exceeds these dimensions, then an intermediate landing will be required. All intermediate stair landings must be designed and constructed as a free-standing deck using the details herein.

FIGURE 31: GUARD POST TO RIM JOIST DETAIL, OPTION 3

FIGURE 32: TREAD AND RISER DETAIL
**FIGURE 33: STAIR STRINGER REQUIREMENTS**

- **CUT STRINGER**
  - Maximum span: 8'-0" with 2 stringers
  - 11'-3" with 3 stringers

- **SOLID STRINGER**
  - Maximum spacing between stringers = 36"
  - Maximum span: 16'-6"

**FIGURE 34: TREAD CONNECTION REQUIREMENTS**

- **ATTACH 2X TREAD MATERIAL**
  - With (2) #8 screws or (2) 8d nails per board at each stringer or ledger
  - Tread material: 2x or 5/4 board

- **2X4 LEDGER, EACH SIDE, FULL DEPTH OF TREAD**
  - Attach with (4) 10d nails or #8 wood screws

**FIGURE 35: STAIR GUARD REQUIREMENTS**

- **STAIR GUARD IS REQUIRED FOR**
  - Stairs with a total rise more than 30" or more; see GUARD REQUIREMENTS for more information

- **STAIR GUARD HEIGHT**
  - 34" measure from nosing of step

- **TRIANGULAR OPENING SHALL NOT**
  - Permit the passage of a 6" diameter sphere

- **PROVIDE BLOCKING BETWEEN STAIR STRINGERS AT GUARD POST LOCATIONS**
  - Toe nail with 10d nails top and bottom, each side

- **6'-0" MAXIMUM BETWEEN POSTS**

- **GUARD POST**
STAIR HANDRAIL REQUIREMENTS
All stairs with 4 or more risers shall have a handrail on one side. See FIGURE 37. Handrails shall be graspable and shall be composed of decay-resistant and/or corrosion resistant material. The hand grip portion, if circular, shall be between 1-1/4" and 2" in diameter. Shapes other than circular shall have a perimeter dimension between 4" and 6-1/4" with a maximum cross sectional dimension of 2". All shapes shall have a smooth surface with no sharp corners. Handrails shall run continuously from a point directly over the lowest riser to a point directly over the highest riser and shall return to the guard at each end; see FIGURE 39. Handrails may be interrupted by guard posts only at a turn in the stair.

STAIR FOOTING REQUIREMENTS
Where the stairway meets grade the stair stringers shall bear on a 4" concrete pad minimum. The pad size shall be of sufficient area such that all stringers have complete bearing on concrete and do not come in contact with the ground. See FIGURE 38 and FIGURE 39.
STAIR LIGHTING REQUIREMENTS

Stairways shall have a light source located at the top landing such that all stairs and landings are illuminated. The light switch shall be operated from inside the house. However, motion detected or timed switches are acceptable.

FRAMING AT CHIMNEY OR BAY WINDOW

All members at a chimney or bay window shall be framed in accordance with FIGURE 40. Headers may span a maximum of 6'-0". When a chimney or bay window is wider than 6'-0", one or more 6x6 posts may be added to reduce header spans to less than 6'-0". In such cases, the post footing must meet the requirements on Sheet 7. Headers with a span length greater than 6'-0" require a plan submission.