1-2x4 or 1-2x6 = 4 1/4"
1-3/4 or 1-3x6 = 5 1/4"
2-2x4 or 2-2x6 = 5 3/4"
2-3x4 or 2-3x6 = 7 3/4"
1-4x6 or 1-6x6 = 8 1/4"
1-4x8 or 1-6x8 = 10"
1-4x10 or 1-6x10 = 12"

Compression Post

ANCHOR BOLT
CORNER LOCATION
<table>
<thead>
<tr>
<th>Depth (in)</th>
<th>Material Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 1/4&quot;</td>
<td>1-2x4 or 1-2x6</td>
</tr>
<tr>
<td>5 1/4&quot;</td>
<td>1-3x4 or 1-3x6</td>
</tr>
<tr>
<td>5 3/4&quot;</td>
<td>2-2x4 or 2-2x6</td>
</tr>
<tr>
<td>7 3/4&quot;</td>
<td>2-3x4 or 2-3x6</td>
</tr>
<tr>
<td>8 1/4&quot;</td>
<td>1-4x6 or 1-6x6</td>
</tr>
<tr>
<td>10&quot;</td>
<td>1-4x8 or 1-6x8</td>
</tr>
<tr>
<td>12&quot;</td>
<td>1-4x10 or 1-6x10</td>
</tr>
</tbody>
</table>

**ANCHOR BOLT**
Mid-Wall Location

2 3/4" Typ.

Compression Post

6" Max
1-2x4 or 1-2x6=4 1/4"
1-3/4 or 1-3x6=5 1/4"
2-2x4 or 2-2x6=5 3/4"
2-3x4 or 2-3x6=7 3/4"
1-4x6 or 1-6x6=8 1/4"
1-4x8 or 1-6x8=10"
1-4x10 or 1-6x10=12"

ANCHOR BOLT
Perpendicular-To-Wall Location
Ballooned Framed Shear Wall W/Ledger
Ballooned Framed Shear Wall W/Ledger
Bearing plate at double top plate
No splice in the top plate permitted within 8" of the rod.
### Bolted Hold Down & Schedule

<table>
<thead>
<tr>
<th>MARK</th>
<th>HOLD DOWN ANCHOR</th>
<th>EMBED LENGTH</th>
<th>HOLD DOWN POST (ON)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PER MFR</td>
<td></td>
<td>4x</td>
<td></td>
</tr>
<tr>
<td>PER MFR</td>
<td></td>
<td>4x</td>
<td></td>
</tr>
<tr>
<td>PER MFR</td>
<td></td>
<td>4x</td>
<td></td>
</tr>
</tbody>
</table>
Bolted Hold down

Note: 1/2" Min. above the plate to allow for pretensioning the anchor to minimize the connector slip.
Column Cap (Strap)-Beam to Beam
Panel (Roof Diaphragm, Roof Sheathing)

Joist/Rafters

Top Plates

Soffit

Fascia

Shaped Blocking

Top Plates

Panel or Floor Panel

Plate

Floor Joist

Bearing Plate

Panel or Floor Panel

Anchor bolt

Plate (Sill plate, foundation plate)

Slab on Grade

Footing

EXAMPLE OF TIMBER TERMS

LEGEND

EN = Panel Edge Nailing
BN = Panel Boundary Nailing
SN = Shear Nailing
FA = Framing Anchor

Shear Wall Length

Shear Wall Mark

16' 4
Exterior Footing W/Crawlspace

Footing Per Local Code Req.

Insulation Per Local Code Req.

Sub-Floor

JOIST

Mud Sill

Stem Wall Per Local Code Req.

Rebar Per Local Code or Req.

Footing Per Local Code Req.

2x BLKG OR 2x RIM JST

2x BLKG OR 2x RIM JST

SN

6" MIN @ EARTH

1-6" MIN
Exterior Footing W/Cripple wall

- 0" @ 2x
- 1/2" @ 3x
- 1" @ 4x

- 2x RIM JST
- TOP PLATES SPLICES PER SCHED
- 2x BLKG @ 48"
- BN TO BLKG
- FA AS REQD
- STUDS PER PLAN
- PLATE
- 1'-0" MIN
- EN
- STEM WALL

Samples from www.AutoCADDetails.net
0" @ 2x
1/2" @ 3x
1" @ 4x

STEM WALL PER LOCAL CODE

Exterior Footing W/Cripple Wall
Note: The 1/2" min. distance specified for the 3X plates from the concrete to bottom of the panel provides some moisture protection for the panel. Prevents dry rot.
Exterior Shear Wall W/Blocking

- STUDS PER PLAN
- PLATE
- 2x BLKG W/ FA PER SCHED
- JOIST
- TOP PLATES SPLICES PER SCHED

Samples from www.AutoCADDetails.net
Exterior Shear Wall W/I-Joists

'I' JOIST BLOCKING OR LAMINATED BLOCKING W/FA PER CODE

'STDUS PER PLAN

PLATE

'SN BN EN

'I' JOIST W/ STIFF PER MFR
Interior Shear Wall W/I-Joist
Interior Shear Wall W/Rim Joist

- Studs per plan
- Plate
- 2x blocking @ 48"
- BN to BLKG
- Top plates splices per plan
- 2x rim jst w/ FA per code reqd

Samples from www.AutoCADDetails.net
Gable End Truss Over Shear Wall
Interior Footing W/CrawlSpace & Cripple Wall

2x RIM JST

BN

SN

2x BLKG @ 48"

FA AS REQD

STUDS PER PLAN

TOP PLATES

SPLICES PER SCHED

STEM WALL

PLATE

0" @ 2x

1/2" @ 3x

1" @ 4x

1'-0" MIN

6" MIN
PLATE FAPERSCHED
2x BLKG @ 48"
BN TO BLKG
STUDS PER PLAN
STRAP PER PLAN
Girder & HGR Per Plan
(Full Width Plate @ HGR)

PLATE
(Stil)

STEM WALL
Per Code Req.

Footing Per Code Req.

Rebar Per Code Req.

Interior Footing W/Crawl space
STUDS PER PLAN
4 - 16d @ JST LAP

FA AS REQD

TOP PLATES SPLICE PER SCHD

0" @ 2x
1/2" @ 3x
1" @ 4x

STEM WALL

Interior Footing W/Cripple Wall
Samples from www.AutoCADDetails.net

STUDS PER PLAN

2" MAX

PLATE, AB & PLATE WASHER PER SCHED

SLAB & BASE COURSE PER PLAN

0" @ 2x
1/2" @ 3x
1" @ 4x

Interior Footing
Interior Party Shear Wall W/Blocking

- STUDS PER PLAN
- PLATE
- 2x SOLID BLKG W/FA PER SCHED
- TOP PLATES SPLICE PER SCHED
- JOIST
- EN
- SN
- BN
- EN

Samples from www.AutoCADDetails.net
Interior Party Shear Wall W/Rim Joists

STUDS PER PLAN

2x BLKG @ 48"

BN TO BLKG

1'-0" MIN

TOP PLATES SPlice PER CODE

2 - 2x RIM JSTS W/ FA PER SCHED
Interior Shear Wall Below W/Blocking

JOIST

BN

4 - 16d @ JST LAP

2x BLKG W/ FA
PER CODE

TOP PLATES SPLICES PER SCHED

www.AutoCADDetails.net
Interior Shear Wall Below W/Rim Joist

- JOIST
- BN
- EN
- EN TO BLKG
- 2x BLKG @ 48"
- 2x BLKG W/FA PER CODE
- TOP PLATES SPLICE PER SCHED
- 1'-0"

Samples from www.AutoCADDetails.net
Interior Shear Wall Perpendicular To Trusses
Interior Shear Wall W/Blocking

JOIST EN
SN BN EN

STUDS PER PLAN

4 - 16d @ JST LAP

PLATE

2x BLKG W/ FA AS REQD

TOP PLATES SPLICES PER SCHED
Interior Shear Wall W/I-Joist
Interior Shear Wall W/I-Joist

STUDS PER PLAN

PLATE

'I' JOIST BLKG OR LAMINATED BLKG W/FA PER CODE

'I' JOIST W/ STIFF PER MFR
Interior Shear Wall W/Rim Joist

- JOIST
  - SN
  - EN
  - BN
  - STUDS PER PLAN
  - PLATE
  - 2x BLKG @ 48"
  - BN TO BLKG
  - 2x RIM JST W/FA PER CODE REQD
  - TOP PLATES SPLICES PER PLAN

- MIN
  - 1'-0"
2x SHAPED BLKG

JOIST

BN

FA PER SCHED

TOP PLATES SPLICE PER SCHED

EN

Joist At Bearing Wall
Load Path--Exterior Floor/Roof Framing
Load Path--Exterior Floor/Roof Framing

Samples from www.AutoCADDetails.net
Where a double sill plate is used the sill shear nailing of both the upper & lower plates are frequently missed. Penetration of the nail from the lower plate thru the panel & into the blocking should be checked.

Load Path--Exterior
Floor/Roof Framing
Fire Blocking

Cont. Panel

Ceiling Joist

Used in dropped ceilings for kitchens or bathrooms. Wall panel is normally installed after all walls & joists are in place. Load path is often broken at the ceiling joist. Leaving a space for the installation of the panel is the correct solution.

Load Path--Interior Wall W/Ceiling Joist
This wall panel is normally installed after all walls & joist are in place. Found or used in kitchen & bathrooms with dropped ceilings.

Load Path--Interior Wall W/Ceiling Joist
Missing nails (shiners or air nails) must be corrected. One line of missing nailing can greatly reduce the diaphragm's capacity to resist loads. Excessive slanting of nails will adversely affect the lateral capacity of the shear walls.

LOAD--Path Nailing
HOLD DOWN POST (FULL HGT)
HOLD DOWN PER PLAN
INSTALL PER MFR
& GENERAL NOTES

1/2" Min.

Nailed/Screwed Hold down

HOLD DOWN ANCHOR

EN FULL HGT OF HOLD DOWN POST

WALL & FTG
Platform Framed Party Shear Wall W/Attic Rake

2x RIM JST W/ FA PER SCHED EN TO BLKG

2x BLKG @ 48"

MATCH WALL BELOW

2x4 STUDS @ 16"

BRACE PER PLAN

BN

EN

SN
Rim Joist At Shear Wall

2x RIM JOIST
BN TO BLKG

JOIST PER PLAN

2x BLKG ONE BAY @ 48"

1'-0" MIN

TOP PLATES SPLICE PER SCHED

3x BLKG
<table>
<thead>
<tr>
<th>MARK (1)</th>
<th>EN (EDGE NAILING)</th>
<th>(2) AB (FOUNDATION PLATE) ANCHOR BOLTS</th>
<th>FOUNDATION PLATE ON CONC OR MAS</th>
<th>ON WOOD</th>
<th>JOINT STUDS &amp; BLKG</th>
<th>FA SPACING</th>
<th>NUMBER OF FA'S PER BLOCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>'x' 6</td>
<td>10d @ 6&quot;</td>
<td>5/8&quot; DIA @ 48&quot;</td>
<td>3x</td>
<td>2x</td>
<td>3x</td>
<td>16d @ 6&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>'x' 4</td>
<td>10d @ 4&quot;</td>
<td>5/8&quot; DIA @ 24&quot;</td>
<td>3x</td>
<td>2x</td>
<td>3x</td>
<td>16d @ 4&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>'x' 3</td>
<td>10d @ 3&quot;</td>
<td>5/8&quot; DIA @ 16&quot;</td>
<td>3x</td>
<td>2x</td>
<td>3x</td>
<td>16d @ 3&quot;</td>
<td>12&quot;</td>
</tr>
</tbody>
</table>

(1) **MIN LENGTH (WIDTH) OF SHEAR WALL (FT)**
(2) WOOD STRUCTURAL PANEL MARK (NAIL SPACING)

(2) PROVIDE PLATE WASHERS 1/4 x 2 1/2 x 0'-2 1/2" TYP.
Platform Framed Party Shear Wall W/Trusses
Strap-Beam To Top Plates

C OF STRAP

EQUAL

EQUAL

BEAM

STRAP PER PLAN

DBL STUD TYP

ON PLAN

TOP PLATES
2x SHAPED BLKG

BN

EN

TRUSS PER PLAN

FA PER CODE

TOP PLATES SPLICE PER SCHED

Trusses At Bearing Wall
NOTES:

1. FOR ITEMS NOT NOTED SEE PLANS.
2. MINIMUM PANEL DIMENSION IS 2'-0".

Typical Blocked Roof & Floor Diaphragms
Note: Holes for anchor bolts shall be 1/32" to 1/16" larger than anchor bolt diameter. If holes are over size repair with epoxy.

2x SCAB PLATE W/ 4 - 16d EA END
PLATE
AB W/ PLATE WASHERS 1/4 x 2 1/2 x 0'-2 1/2" PER PLAN / DETAILS

5" MIN 5" MIN
12" MAX 12" MAX

PANEL PER PLAN TYP

5" MIN 5" MIN 5" MIN
12" MAX 12" MAX 12" MAX

AT CORNER AT INTERSECTION AT SPLICE

Typical Plate Anchor Bolts
Typical Shearwall Elevation

NOTES:

1) FOR ITEMS NOT NOTED SEE PLAN & SHEAR WALL SCHED.
2) MINIMUM PANEL DIMENSION IS 1'-0".
3) USE FULL SIZE PANELS WHERE POSSIBLE.
4) FIELD NAILING (FN) @ 12" ON.
5) 3x SOLID BLKG @ HORIZ JOINTS.
Typical Shear Wall Intersection (No Hold downs)
Typical Shear Wall Intersections (With Hold downs)
NOTES:
1. FOR ITEMS NOT NOTED SEE PLANS.
2. MINIMUM PANEL DIMENSION IS 2'-0".

Typical Unblocked Rood & Floor
NOTE

3/8" MIN LUMBER EDGE DISTANCE
CLEARANCES PER PANEL MFR
1/2" MIN PANEL EDGE DISTANCE
3/8" MIN LUMBER EDGE DISTANCE

EN OR BN PER PLAN
NOTE

STUD OR JOIST FRAMING

I - JOIST FRAMING
NOTE

Samples from www.AutoCADDetails.net