

SECOND FLOOR FRAMING PLAN ABOVE FIRST FLOOR WALLS  
 3/8" = 1'-0"

**NOTES:**

- See Drawing S1.0 for additional notes and requirements.
- See Drawings S3.0, S3.1, and S3.2 for required typical details.
- Spacing of floor framing materials shall not exceed 16" on center. Add blocking and bracing to other components as necessary to accommodate this requirement.
- PT shall be pressure treated #1 SYP (typical, unless noted otherwise). All Simpson hangers in contact with pressure treated lumber to have ZMAX finish (ZP).
- Align column centerline with columns above, typical. Add post within floor cavity between columns, typical (see H4.531).
- Interior walls and columns on this plan are located between basement and first floor.
- Columns embedded in walls shall be sized as follows unless otherwise noted:
 

WALL	COLUMN
2x6 stud wall	(3) 2x6 studs raised together
2x4 stud wall	(3) 2x4 studs raised together
- Beams shall be flush framed with floor joists, typical (UON).
- Unless noted otherwise, finish of exterior walls shall be (3) 2x6's nailed together. Lintels at load bearing walls shall be (2) 2x6's at 2x4 stud walls and (3) 2x6's at 2x6 stud walls, nailed together (UON).
- The abbreviation "MUNAP" indicates "Versatim" products as manufactured by Boise Cascade (or approved equivalent).

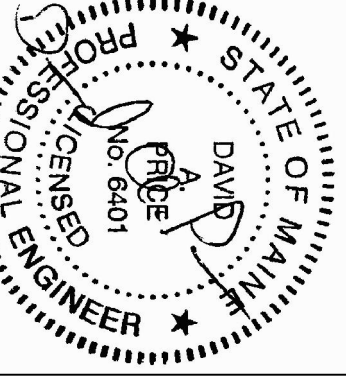
**KEY**

- Post bearing on beam or lintel
- ☒ Column embedded in wall basement floor & 1st floor

**STRUCTURAL STEEL NOTES**

- All structural steel work shall conform to the recommendations and requirements contained in the "Manual of Steel Construction, Allowable Stress Design" (AISC Ninth Edition, including Supplement #1, 2001), and "Structural Welding Code - Steel" (AWS D1.1, latest edition). Steel fabricator shall be AISC certified and submit evidence to the satisfaction of the structural engineer that AISC and AWS requirements for procedures, quality control, and maintenance of records are strictly adhered to.
- Structural steel rolled shapes, plates, and bars shall conform to the following ASTM designations:
 

ASTM A 992	..... All wide flange sections ("W Shapes"), $f_y = 50$ ksi.
ASTM A 36	..... Steel plates, $f_y = 36$ ksi.
ASTM A 36	..... Other rolled shapes, plates and bars unless otherwise noted. $f_y = 36$ ksi.
ASTM A 500, Grade B	..... Steel tubes. $f_y = 46$ ksi.
ASTM A 53, Grade B	..... Steel pipe. $f_y = 35$ ksi.
ASTM A 36	..... All anchor bolts, unless otherwise noted.
ASTM A 307	..... Threaded rods, unless otherwise noted.
ASTM A 36	..... Threaded rods, unless otherwise noted.
ASTM 1554	..... High strength threaded rod where noted.
- Note: A325 bolts shall be limited to 3/4" and 1" diameter (UON), with two bolts (minimum) at each connection. A325 bolts shall be 10y-prestressed 1" (C650) (Tension Control).
- All steel and steel connection material exposed to weather shall be hot-dip galvanized.
- No change in size or position of the structural elements shall be made without prior written approval of the Structural Engineer.
- Nonshrink grout shall be 5000 psi (min.) compressive strength.
- Temporary erection bracing shall be provided to hold structural steel securely in position. Remove temporary bracing and connections only after permanent members are in place and final connections are in place.
- All shop and field welds shall be made by certified welders, and shall conform to the American Welding Society Code AWS D1.1, latest edition. Carefully control welding technique to avoid distortion including sampling prior to welding.
- Electrodes for all field and shop welding shall conform to AWS E70-XX. Minimum weld size shall be 3/16" fillet (UON). Furthermore, for projects requiring conformance with AISC seismic provisions:
  - All welds used in members and connectors in the SLRS (Seismic Load Resisting System) shall be made with a filler metal that can be used in the SLRS.
  - Where welds are designated as "seismic critical," they shall be made with a filler metal capable of providing a minimum Charpy V-notch toughness of 20 ft-lb at -20°F as determined by the appropriate AWS qualification test method or manufacturer certification, and 40 ft-lb at 70°F.
  - Copies of manufacturer's certificate of compliance for filler metal used in SLRS shall be submitted with shop drawings.
- Cuts, holes, coping, etc., required for work of other trades shall be shown on the shop drawings and made in the shop. Cuts or burning of holes in structural steel members in the field will not be permitted, unless approved in writing by the Structural Engineer.



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**LAWLER RESIDENCE**  
 116 Pursons Road  
 Portland Maine

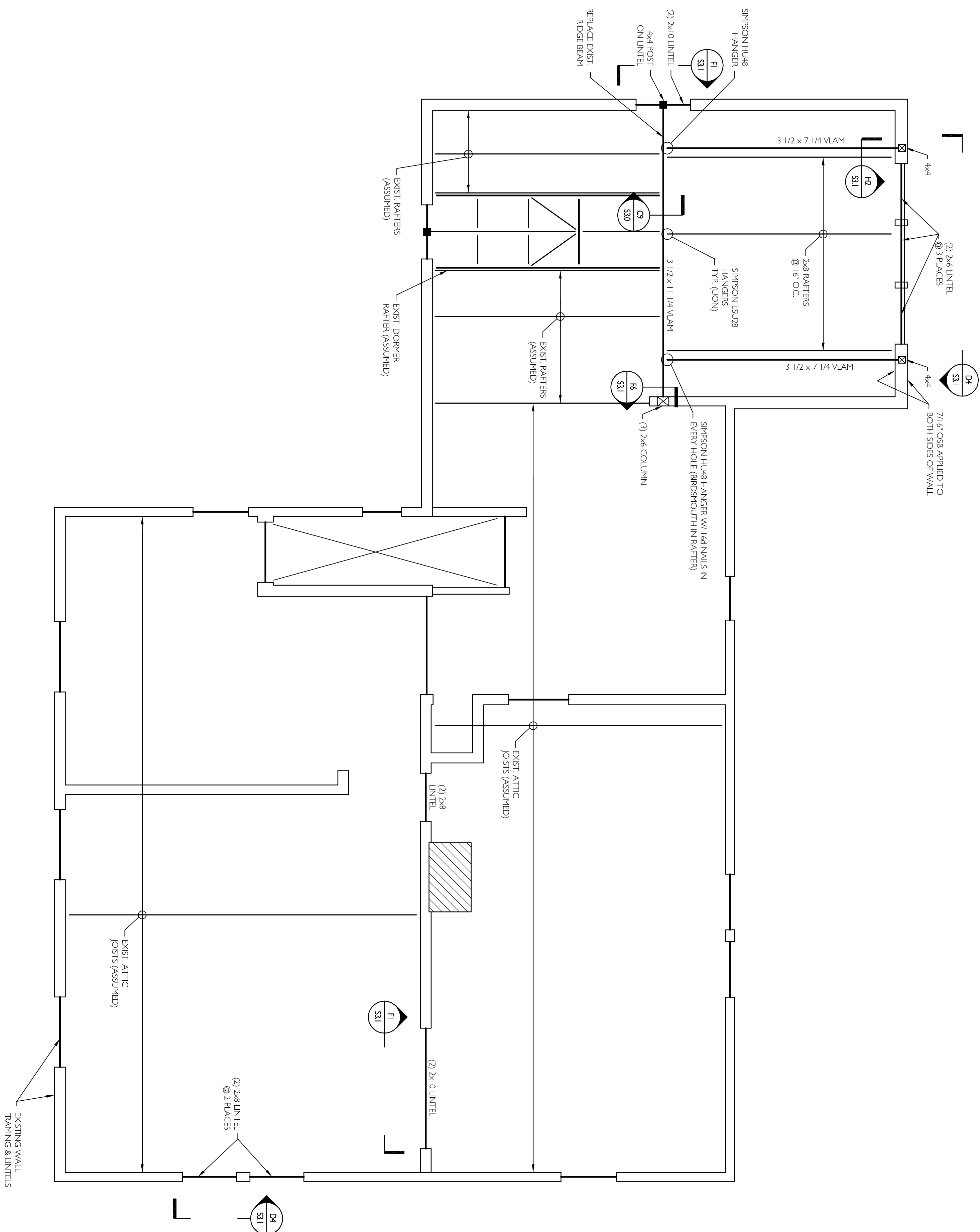
**By Bruce B. Butler**  
**Design**

SCALE	AS NOTED	SECOND FLOOR FRAMING ABOVE FIRST FLOOR WALLS
ENGINEER:	DAP	
DATE:	5/14/08	
PROJECT NO.:	107-08	

- NOTES:
1. See Architectural Drawings for roof slopes.
  2. Unless noted otherwise, rafter's at exterior walls shall be (3) 2x8's nailed together. Lintels at interior load bearing walls shall be (2) 2x8's at 2x4 stud walls and (3) 2x8's at 2x6 stud walls, nailed together (u/n).
  3. See Drawing S1.0 for additional notes and requirements.
  4. See Drawings S3.0, S3.1, and S3.2 for required typical details.
  5. Interior walls and columns shown on this plan are located between 2nd floor and roof (or attic).
  6. Spacing of rafters and other roof framing materials shall not exceed 6' on center. Add additional rafters and other components as necessary to accommodate this requirement.
  7. Align column centerline with column above, typical. See Detail H41 / S3.1 for typical blocking at floor cantile.
  8. All ridges, hips, valleys, and beams shall be centered on supports and bear a minimum of 2 1/2" on supporting walls, columns, and beams.
  9. Coordinate location of roof framing components with requirements indicated on architectural documents.
  10. The abbreviation "LAWLER" indicates "Versalium" product as manufactured by Boise Cascade (or approved equivalent).

**KEY**

- Post bearing on beam
- ☒ Column embedded in wall (columns shall either bear on beams or be extended to bear directly on foundation)



H1  
S2.2 3/8" = 1'-0"  
GARAGE ROOF AND ATTIC FLOOR FRAMING PLAN ABOVE SECOND FLOOR WALLS

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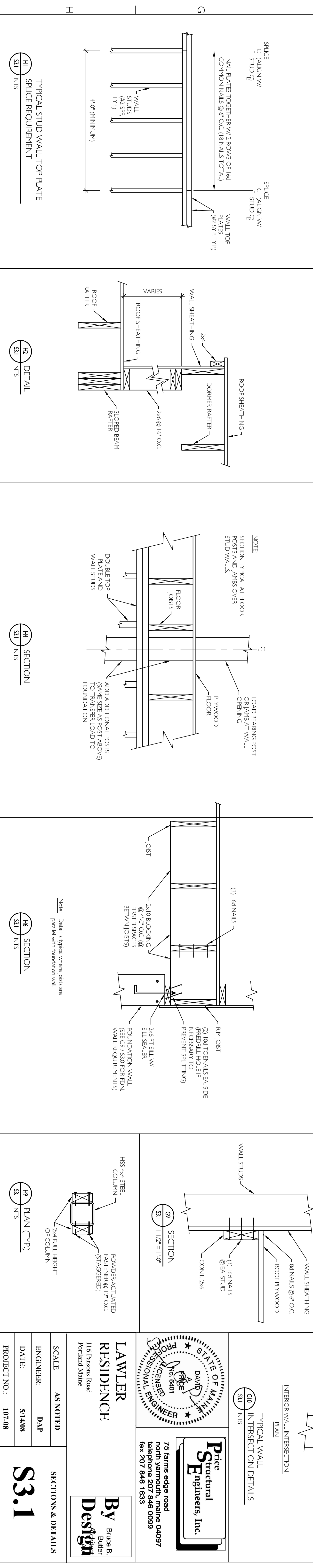
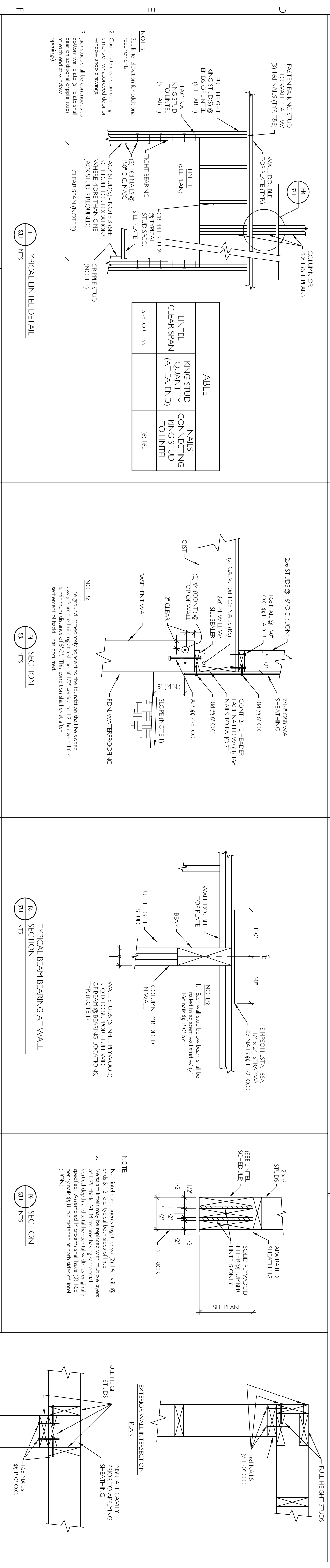
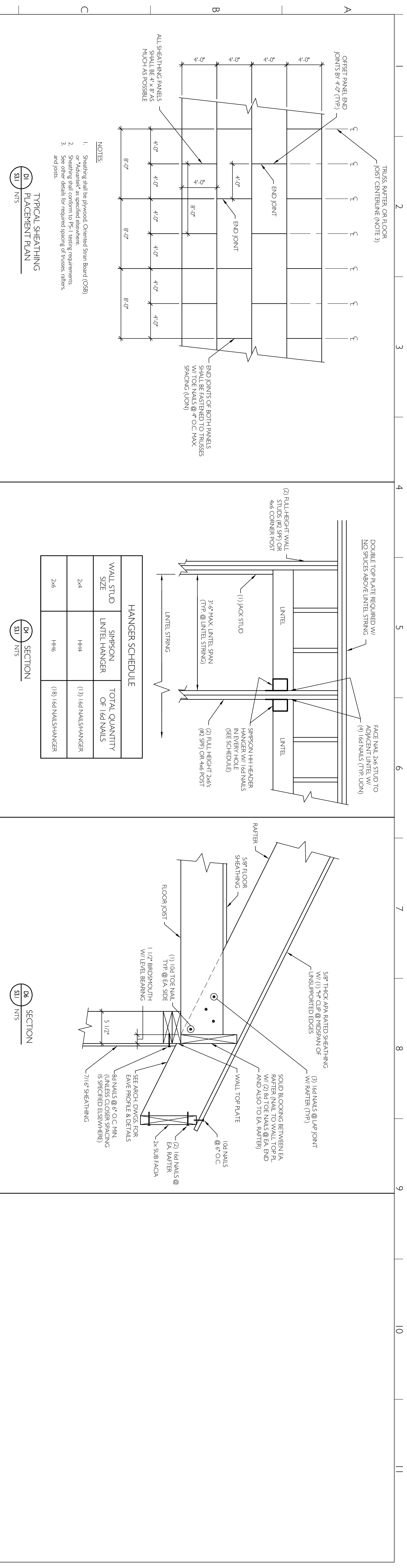
**By** Bruce B. Butler  
**Design**

**S2.2**

SCALE: AS NOTED  
ENGINEER: DAP  
DATE: 5/14/08  
PROJECT NO.: 107-48

GARAGE ROOF AND ATTIC FLOOR FRAMING ABOVE SECOND FLOOR WALLS





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**Price Structural Engineers, Inc.**

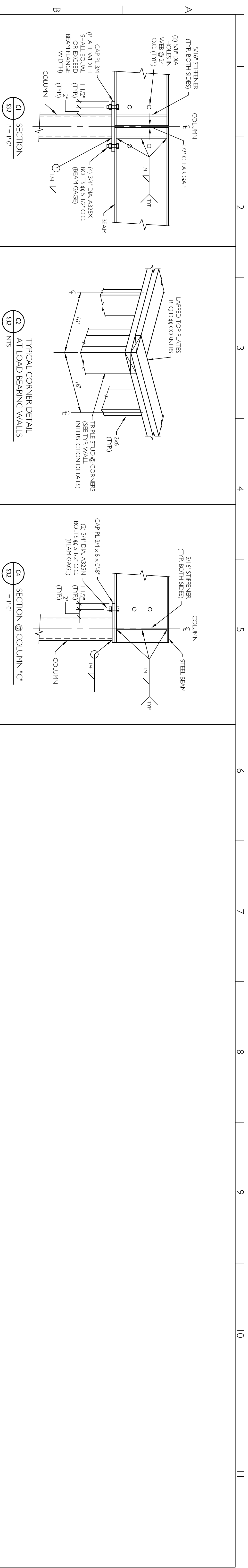
**LAWLER RESIDENCE**  
116 Parsons Road  
Portland Maine

SCALE: AS NOTED  
ENGINEER: DAP  
DATE: 5/14/08  
PROJECT NO.: 107-08

SECTIONS & DETAILS

By Bruce B. Butler  
**Design**

**S3.1**



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<p><b>LAWLER RESIDENCE</b> 116 Pursons Road Portland Maine</p>		<p>SCALE AS NOTED ENGINEER: DAP DATE: 5/14/08 PROJECT NO.: 107-08</p>	
<p>STATE OF MAINE DAVID PRICE No. 6401 LICENSED PROFESSIONAL ENGINEER</p>		<p>SECTIONS &amp; DETAILS <b>S3.2</b></p>	