Project Name/description:

Temporary Support During Wall Restoration at Mouns Jones House Douglassville, PA

Design Engineer:

timbertech
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General Notes

The contractor shall review all applicable local, state, and federal building codes prior to the start of construction to ensure building conformance. Timber Tech Engineering, Inc. is not responsible for information pertaining to this project if not shown on drawings or listed below. Revisions to the plans shall be approved by engineer of record.

Design Requirements

1. Governing Code: PA Uniform Construction Code (Structural Provisions Only) Including, not limited to: IBC 2009
2. Dead Loads:
   - A. Roof 10 psf
   - B. Floor 10 psf
   - C. Other n/a psf
3. Live Loads:
   - A. Roof (See also note #5) 20 psf
   - B. Floor 50 psf
   - C. Other n/a psf
4. Snow Loads:
   - A. Ground Snow (Pg) 30 psf
   - B. Flat Roof Snow (Pf) 21 psf
   - C. Snow Exposure Factor (Ce) 1.0
   - D. Snow Load Importance Factor (I) 0.8
5. Wind Load
   - A. Basic Wind Speed (V) 90 mph
   - B. Wind Load Importance Factor (I) 0.87
   - C. Wind Exposure Category C

IMPORTANT NOTE:
This plan is approved for the structural design of the temporary support structure during the stone wall restoration. The temporary support structure shall be installed and remain in place until the stone wall is taken down, reassembled, and completed. (Stone wall is designed by others)

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TTE DRAWING NUMBER: E030-14

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Earthwork

1. Execution
   A. Footings have been designed for an assumed allowable loadbearing pressure of 2,000 psf. The contractor shall verify this assumption, and shall immediately notify the structural engineer in writing of any deficiency.

Structural Steel

1. Hot-rolled structural steel sections shall be designed and constructed according to the "Manual of Steel Construction" by the American Institute of Steel Construction (AISC), and shall conform to the following:
   A. Channels, angles, plates, bars and miscellaneous connection material: ASTM A36/a 36m-04 with a minimum yield strength of 36,000 psi, unless otherwise noted.
2. Connections shall be designed and constructed according to AISC, and shall conform to the following:
   A. Bolted connections shall be snug-tightened bearing type connections using 3/4" diameter ASTM A307-03 grade A hex bolts, and ASTM A563 grade A hex nuts, unless noted otherwise.
   B. Welded connections shall be in strict accordance with the standards of the American Welding Society (AWS), and the AISC. Use E-70 series electrodes for all welds.
   C. Anchor bolts shall meet ASTM A307-03 or A36/A 36M-04. Use 3/4" diameter bolts with a 3" hook and 1'-0" minimum embedment into concrete or grout-filled masonry (unless otherwise indicated).
   D. Expansion bolts: Use expansive anchors of the diameter and length indicated on the drawings as manufactured by Hilti Fastening Systems or approved equal. Use Kwik Bolt II anchors in concrete, and use sleeve anchors in brick and C.M.U. Fill C.M.U. cells at all bolt locations.
   E. Connections exposed to weather or high relative humidities shall be hot-dip galvanized per ASTM A153 / A153M-05.

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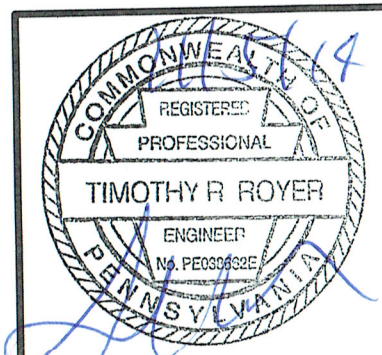
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Drawing Title:	General Notes
Start Date: 4/10/2014	By: ans
Final Date: 11/5/2014	
Owner/contractor:	Historic Preservation Trust of Berks County P.O. Box 245 Douglassville, PA 19518
Plan No. E030-14	
Project:	Temporary Support During Wall Restoration Mouns Jones House Douglassville, PA
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Wood

1. General Requirements
   A. Structural wood members and connections shall be of sufficient size or capacity to carry all design loads without exceeding the allowable design values specified in "The National Design specification for Wood Construction" (NDS), 2005 edition, and its "Supplement" by the American Forest and Paper Association (AF and PA).
   B. Wood members used for load supporting purposes shall have the grade mark of a lumber grading agency certified by the American Lumber Standards Committee.
2. Dimension Lumber
   A. All lumber species, graded visually or mechanically, shall comply with the NDS by AF and PA, and the "American Softwood Lumber Standard" (PS 20-05) by the U.S. Department of Commerce.
   B. The minimum grade and species for posts, beams, headers, and other primary structural members shall be #2 Southern Pine, unless specified otherwise.
   C. Lumber used for secondary framing shall be #2 Spruce-Pine-Fir (SPF) or better.
   D. Post frame headers shall be two-span continuous beams with all multiple ply headers overlapping so that the butt joints for each ply do not occur at the same post.
3. Engineered Wood
   A. Wood Structural Panels
      1. All panels, including plywood, oriented strand board (OSB), and composite panels, shall meet the requirements of voluntary product standard PS 1, and shall be identified with the appropriate trademark of APA - the Engineered Wood Association (APA-EWS).
      2. Plywood, OSB and composite panels may be used interchangeably, unless specified on plan.
      3. All panels shall have the correct span rating for the application (i.e. roofing, flooring, siding).
      4. Install panels with long dimension or strength axis perpendicular to supports, and continuous across two or more spans.
      5. Provide one eighth inch spacing at all panel ends and edges for expansion.
      6. Nailing schedule using 8d common nails: 6" on center at supported panel edges12" at intermediate supports start nailing at three eighths inch from panel edge.
4. Pressure Preservative Treatment (PPT)
   A. Pressure treatment to be performed according to the American Wood Preservers' Association (AWPA) standards.
   B. Pressure treated members shall have the inspection mark of an agency accredited by the American Lumber Standards Committee.
   C. Preservative: chromated copper arsenate (CCA), alkaline copper quaternary (ACQ), copper azole (CA) as specified by American Wood Protection Association.
   D. Minimum waterborne treatment retention shall be 0.4 pcf for members above ground, and 0.6 pcf for members in contact with earth.
   E. Treat indicated items and the following:
      1. Wood members exposed to weather or insect infestation.
      2. Wood members in direct contact with earth or concrete.
      3. Wood members exposed to high moisture content (>19% for dimension lumber, >16% for glued laminated timber).
      4. Wood members less than 12 inches above grade.
   F. Field treat newly exposed wood where cutting, drilling or notching pressure treated lumber.
   G. Metal connectors used in treated wood shall be hot-dip galvanized as per ASTM 153/A153M-05.
   H. All metal products installed in contact with treated wood shall be separated with a min. barrier of 30# felt paper.
5. Connections shall be designed and constructed according to the NDS by AF and PA and shall conform to the following:
   A. The minimum connection shall be two 12 penny nails, or as detailed on the drawings.
   B. Other connections as per standard construction practice.



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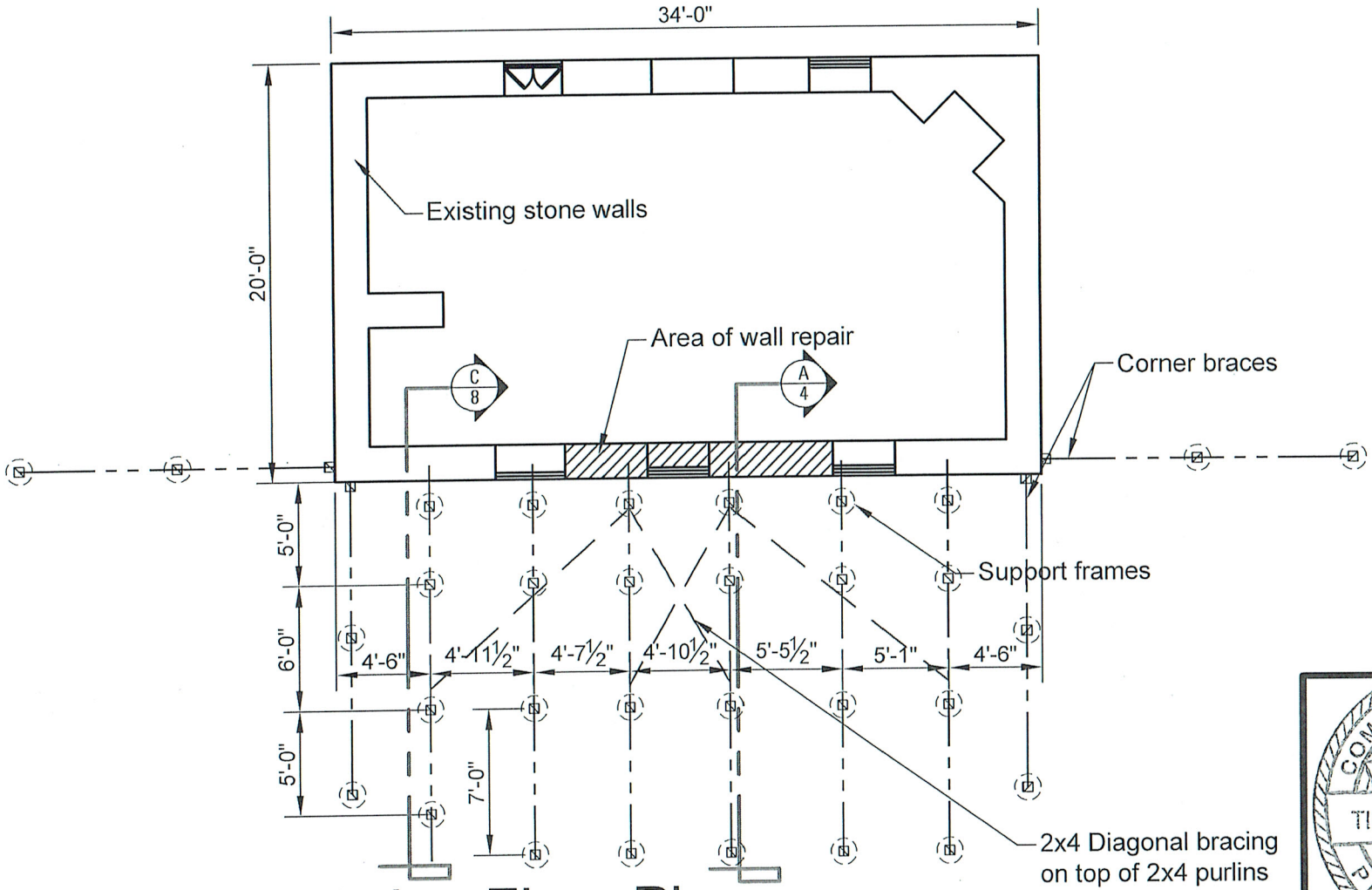
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Existing Floor Plan

Scale ⅛" = 1'-0"

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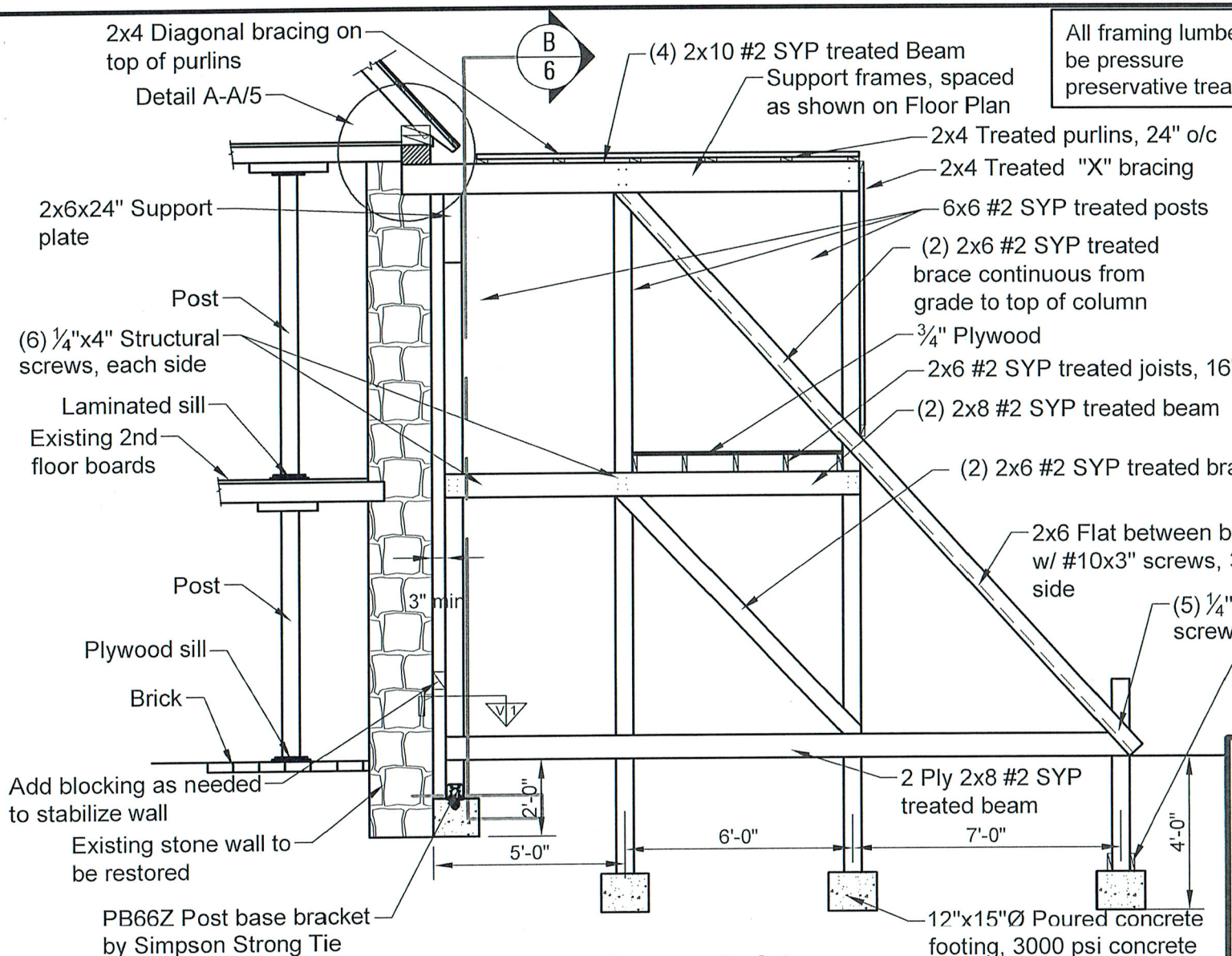
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Cross Section A/4

Scale ¼" = 1'-0"

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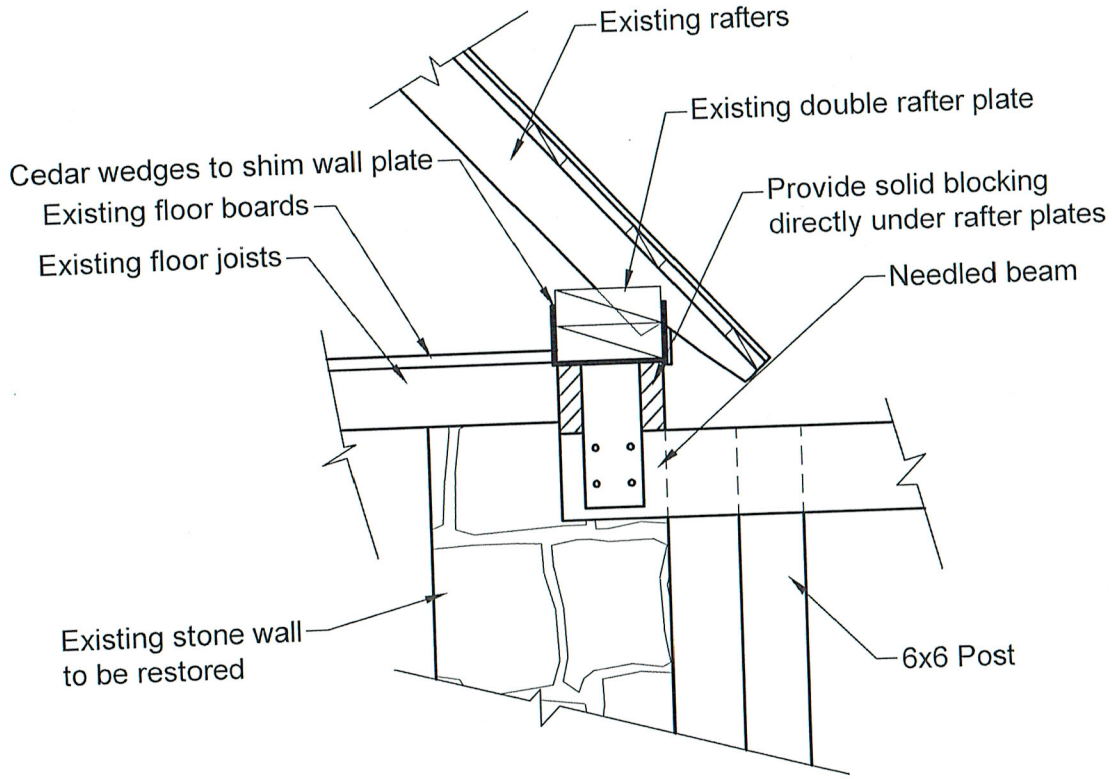
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Detail A-A/5

Scale ¾" = 1'-0"

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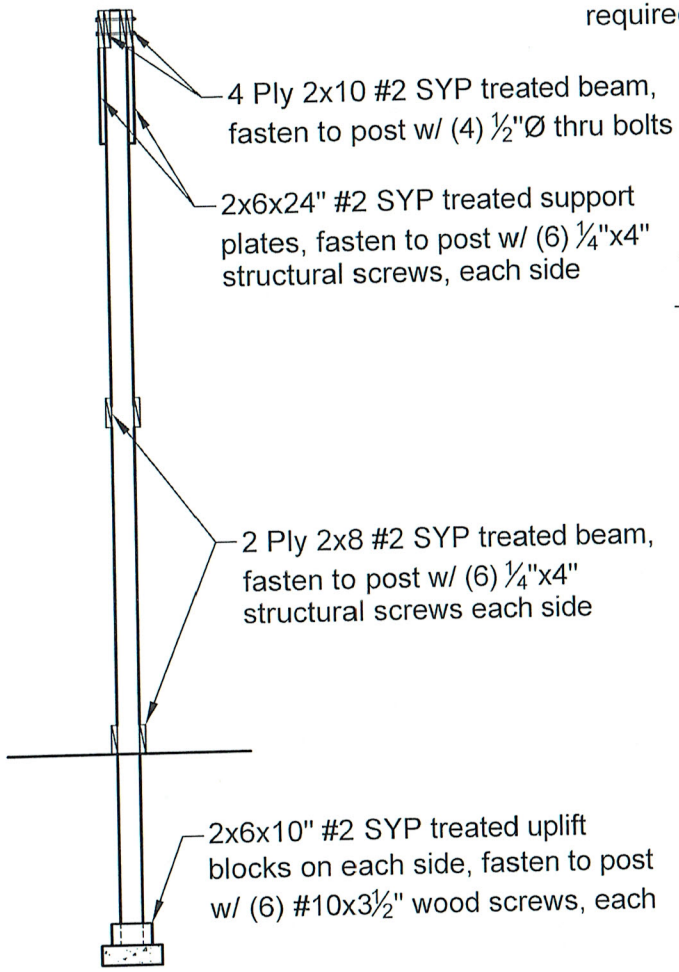
Drawing Title:
Detail A-A/5

Start Date: 4/10/2014
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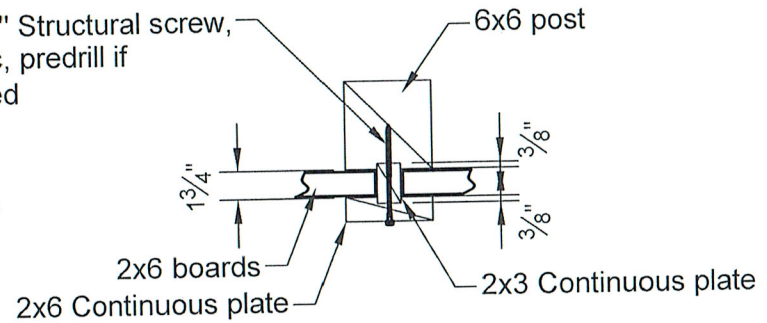
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Cross Section B/6

Scale ¼" = 1'-0"



View 1

Scale 1" = 1'-0"

Cross Section A/4

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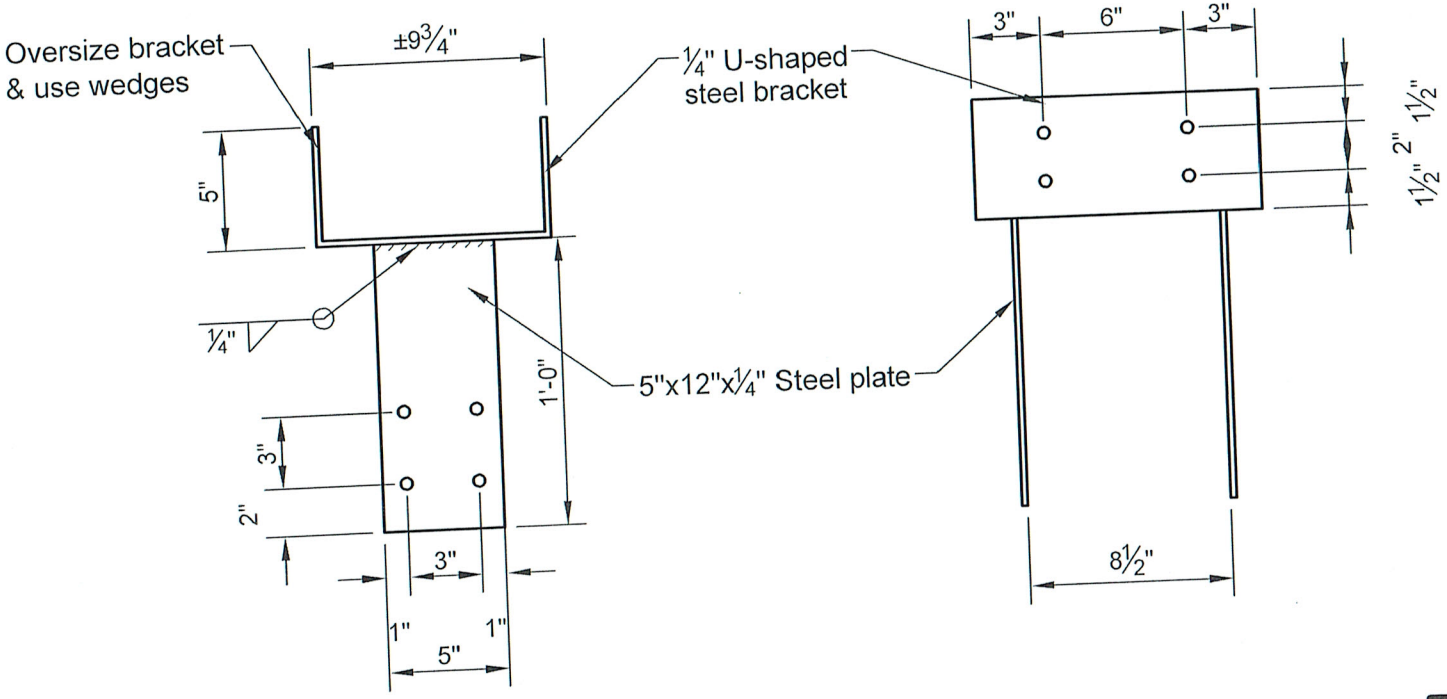
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Custom Bracket

Scale 3" = 1'-0"

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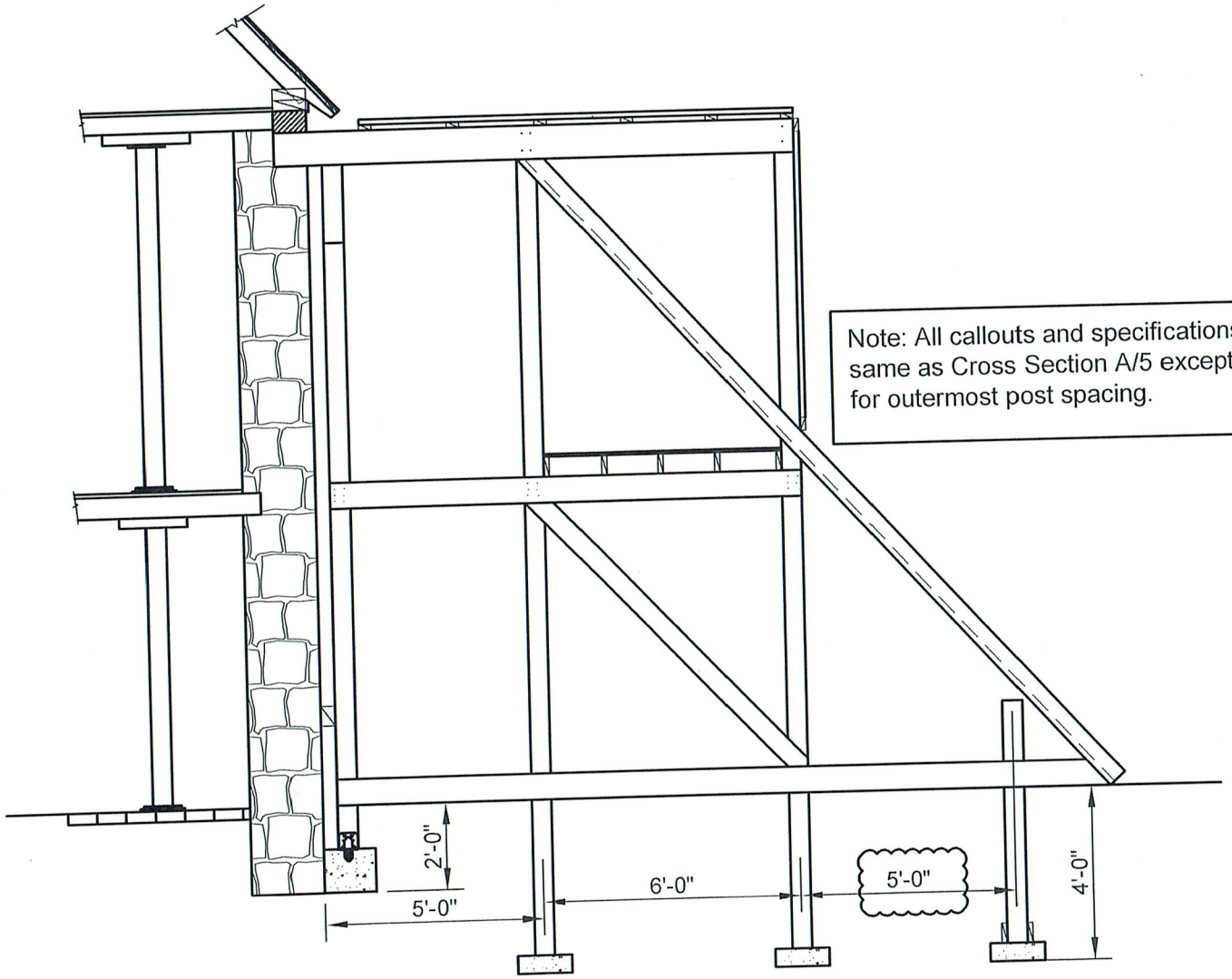
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Custom Bracket

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Note: All callouts and specifications same as Cross Section A/5 except for outermost post spacing.

Cross Section C/8

Scale ¼" = 1'-0"

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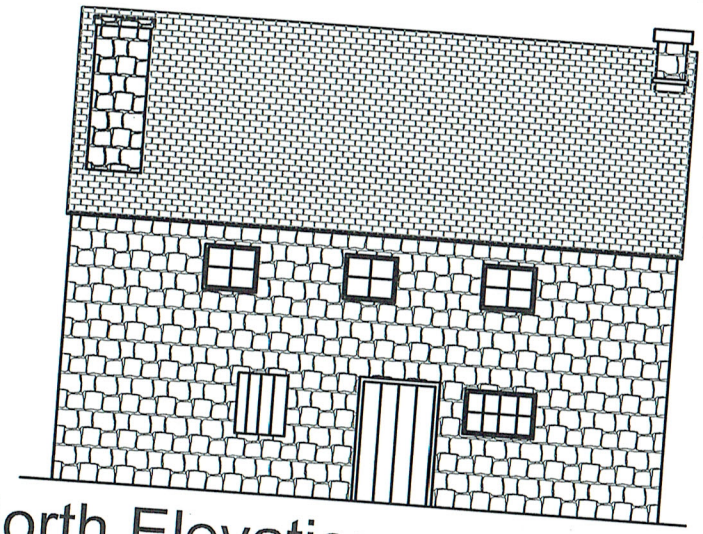
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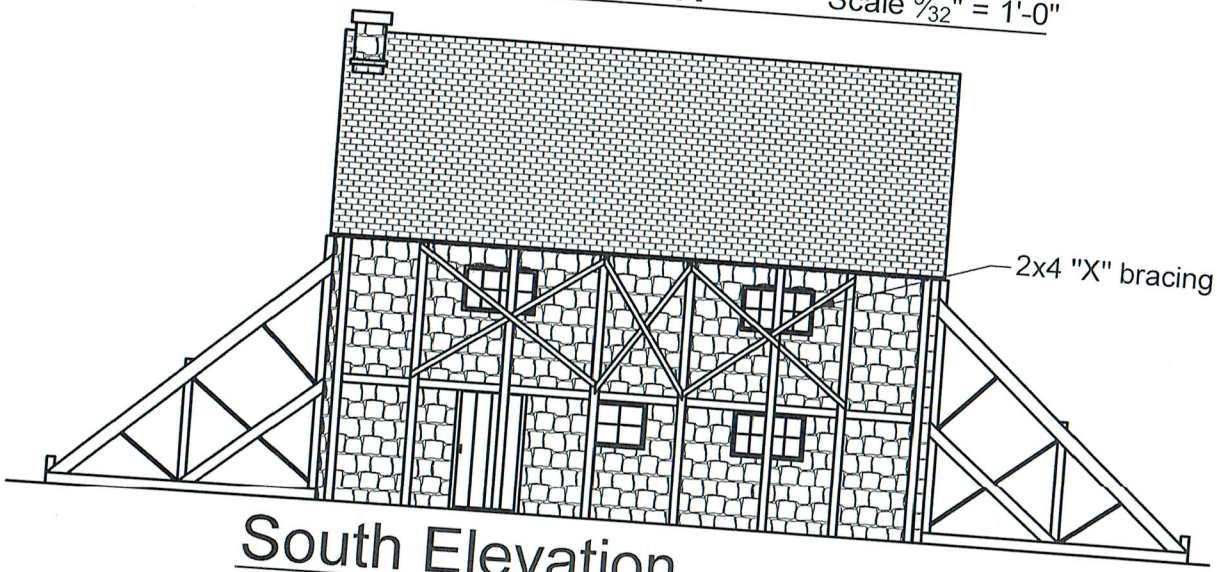
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North Elevation

Scale 3/32" = 1'-0"



South Elevation

Scale 3/32" = 1'-0"

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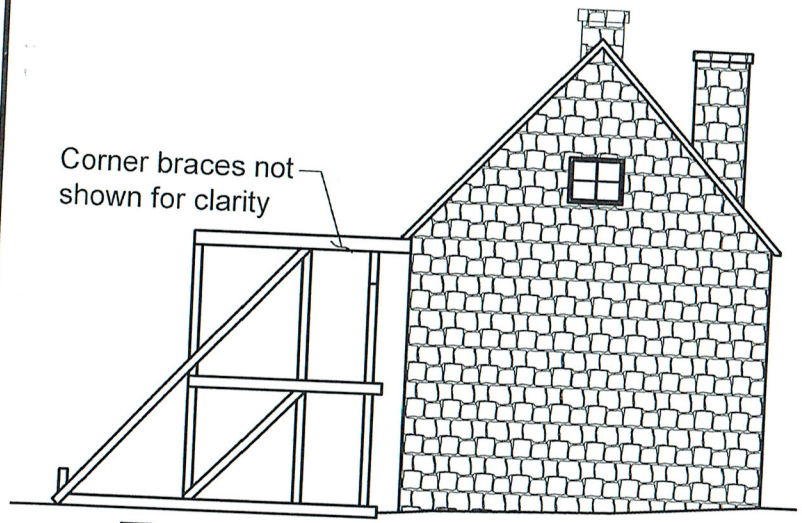
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Elevations

Start Date: 4/10/2014
By: ans

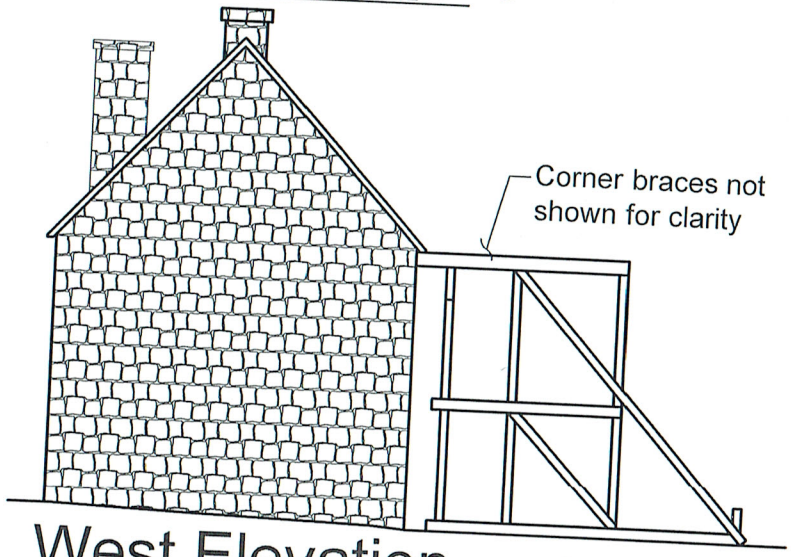
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East Elevation Scale 3/32" = 1'-0"



West Elevation Scale 3/32" = 1'-0"

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