

APPLICATION FOR CERTIFICATE OF APPROPRIATENESS (COA)

Building address 405 Center St. Bethlehem, PA 18018

Owner of building Justin Whiting, Elizabeth Ackerman Phone [REDACTED]

Owner's email & mailing address [REDACTED]

Applicant Master PLAN Outdoor Living Phone: [REDACTED]

Applicant's email & mailing address [REDACTED]

Street and Number City State Zip Code

APPLICANT MUST ATTEND MEETING FOR CASE TO BE HEARD.

USE THE CHECKLIST ON THE BACK OF THIS APPLICATION TO ENSURE YOUR SUBMISSION IS COMPLETE.

Historic & Architectural Review Board – Application form, photographs, and drawings must be submitted 2 weeks prior to the regular scheduled meeting in order to be placed on the agenda for the next meeting.

South Bethlehem & Mount Airy Historic Conservation Commission - Application form, photographs, and drawings must be submitted 2 weeks prior to the regular scheduled meeting in order to be placed on the agenda for the next meeting.

1. **PHOTOGRAPHS** - Photographs of your building and neighboring buildings must accompany your application.

2. **TYPE OF WORK PROPOSED** – Check all that apply. Please bring any samples or manufactures specifications for products you will use in this project.

- Trim and decorative woodwork
- Siding and Masonry
- Roofing, gutter and downspout
- Windows, doors, and associated hardware
- Storm windows and storm doors
- Shutters and associated hardware
- Paint (Submit color chips – HARB only)
- Skylights
- Metal work
- Light fixtures
- Signs
- Demolition
- Other patio, pergola

3. **DRAWINGS OF PROPOSED WORK** – Required drawings must accompany your application. Please submit ONE ORIGINAL AND TEN (10) COPIES OF DRAWINGS, PHOTOGRAPHS, APPLICATION FORM, AND ANY SPECIFICATIONS

- Alteration, renovation, restoration (1/4 or 1/8"=1'0" scale drawings required IF walls or openings altered.)
- New addition (1/4" or 1/8"=1'0" scale drawings: elevations, floor plans, site plan)
- New building or structure (1/4" or 1/8"=1'0" scale drawings: elevations, floor plans, site plan)
- Demolition, removal of building features or building (1/4" or 1/8"=1'0" scale drawings: elevation of remaining site and site plan)
- A scale drawing, with an elevation view, is required for all sign submittals

4. **DESCRIBE PROJECT** – Describe any work checked in #2 and #3 above. Attach additional sheets as needed.

Removal of grade-level deck, brick walkway + on-deck arbor. Installation of slab paver walkway, paver patio w/2 recessed lights, overhead pergola attached to home and staining of existing fence to finish. Supporting documents included in packet(s).

5. **APPLICANT'S SIGNATURE** _____ DATE: 8-4-2020

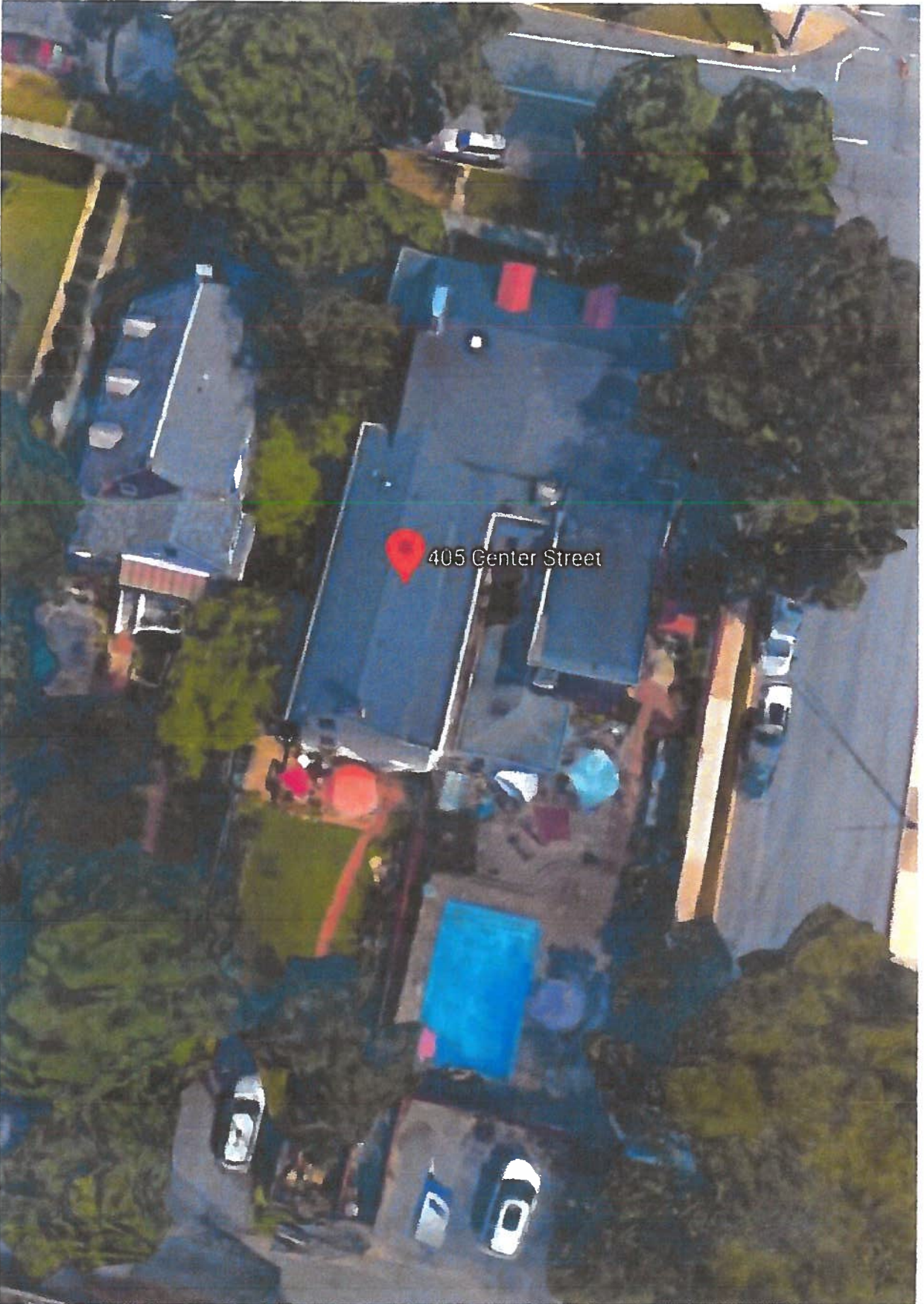
6. **OWNER'S SIGNATURE** _____ DATE: 8-4-2020

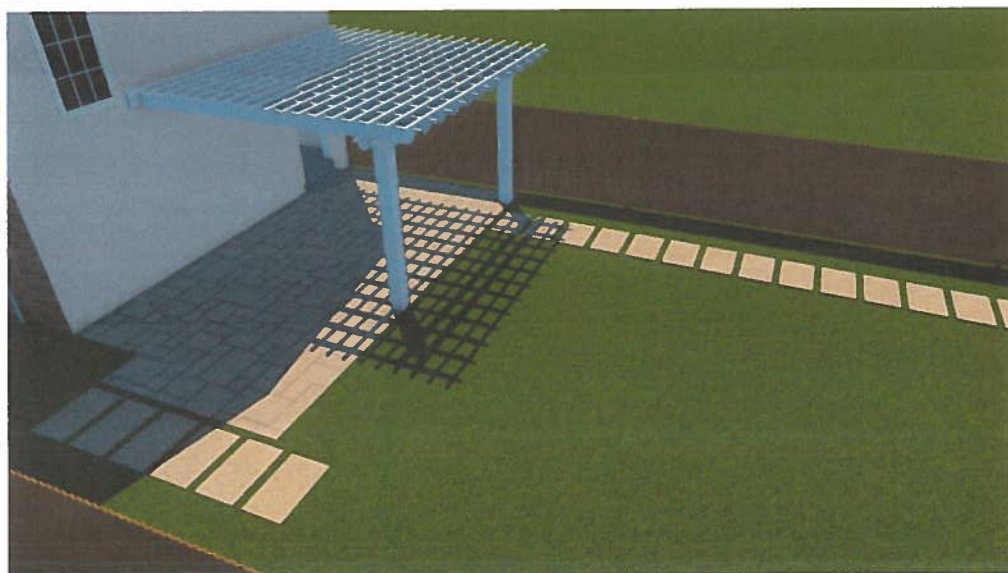
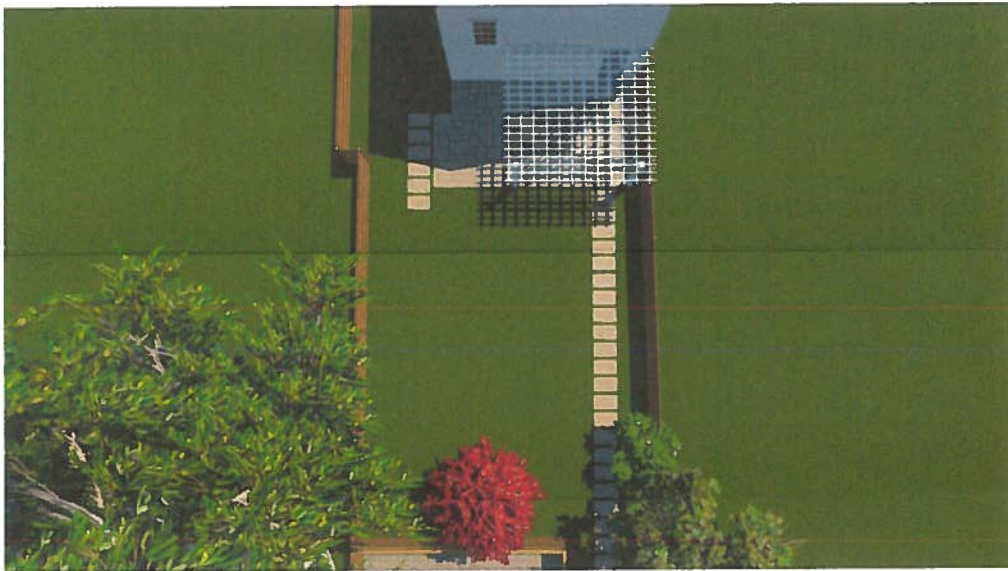
Table of Contents

- Packet: Rear/Side/Aerial photos of property (left and right neighbors can be seen in all)
- Page: 3D renderings of proposed improvements
- Packet: - Paver patio material (Techo-Bloc Blu Grande Smooth in color Greyed Nickel)
- Slab walkway material (Techo-Bloc Blu Grande Smooth in color Greyed Nickel)
- Page: Proposed vinyl pergola specs
- Page: Proposed fence stain color (Benjamin Moore semi-solid exterior stain, HC-190)
- Plan: Site plan showing the above proposed improvements to existing home

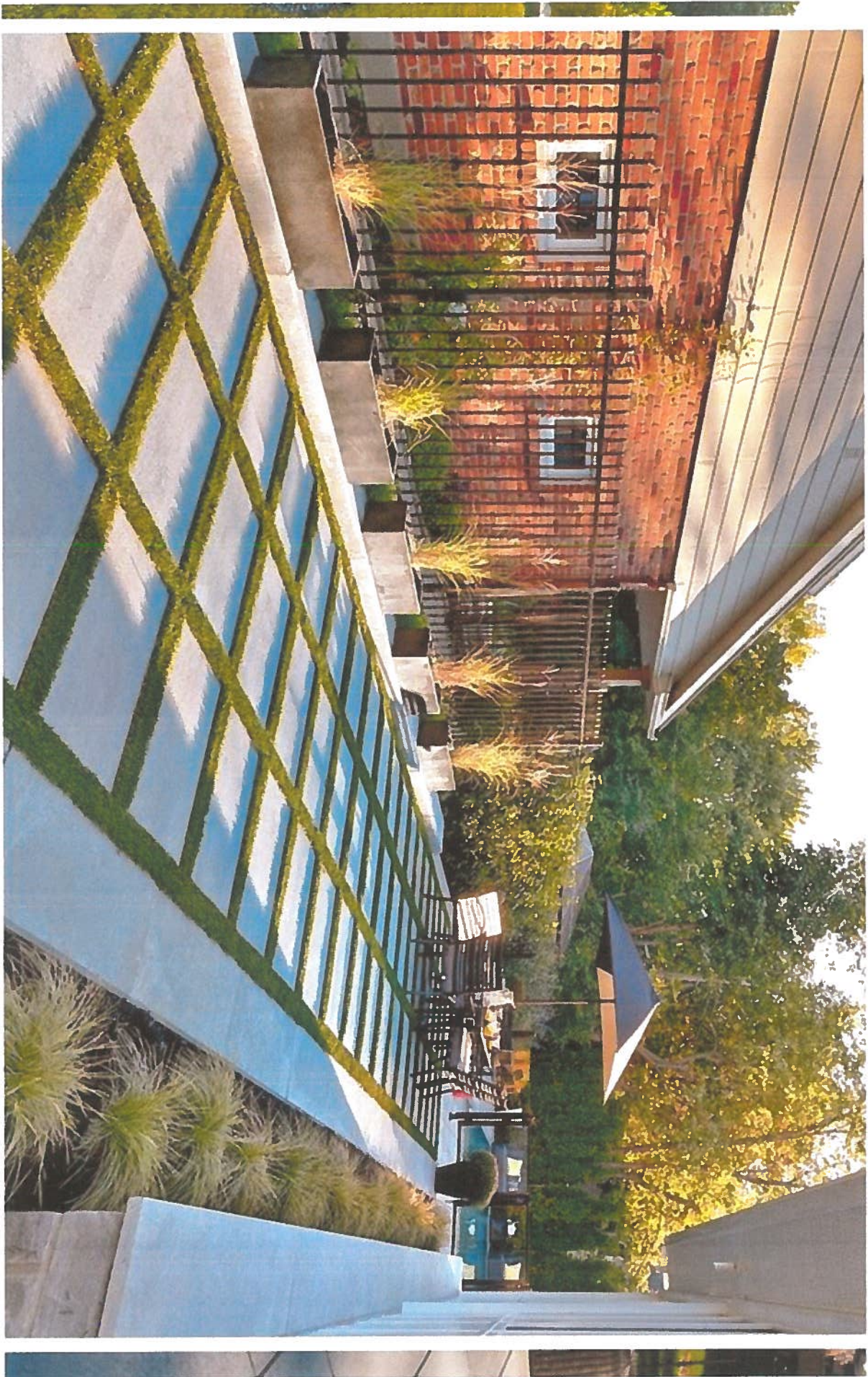












16'x16' Rectangle Vinyl Pergola

GENERAL NOTES
 All notes do not necessarily apply due to different requirements on each project. This plan is intended to reflect only the structural design of this building. 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: Including, not limited to: IBC 2015 Risk Category I
2. Dead Loads:
 - A. Roof 5 psf
 - B. Floor n/a psf
 - C. Other n/a psf
3. Live Loads:
 - A. Roof (See also note #4) 8 psf
 - B. Floor n/a psf
 - C. Other n/a psf
4. Snow Loads:
 - A. Ground Snow (Pg) 50 psf
 - B. Wind Exposure Category B
5. Ultimate Wind Speed (Vult) 125 mph
6. Earthquake Design Data: (Analysis based on equivalent lateral force procedure)
 - A. Spectral Response Acceleration at 1 sec, S 0.35
 - B. Spectral Response Acceleration at short periods, S 0.54
 - C. Occupancy Importance Factor, I 1.0
 - D. Site Class D
 - E. Basic Structural System Cantilevered Column; Timber Frame
 - F. Response Modification Factor (R) 1.5
 - G. Deflection Amplification Factor (Cd) 1.5

Drawing Index

- Page 1 - Elevations
- Page 2 - Post Layout Plan
- Page 3 - Roof Framing
- Page 4 - Cross Section, Details
- Page 5 - Details
- Page 6 - Column Nail Schedule

Note: This pergola design does not account for sheathing, lattice, plants, or other objects (except what is shown) that may provide a surface for additional snow accumulation or wind pressures.

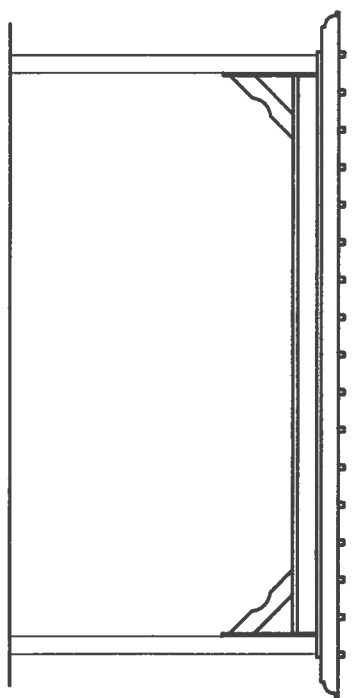
WOOD

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), and its "Supplement" by the American Forest and Paper Association (AF&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&PA, and the American Softwood Lumber Standard (PS 20) by the U.S. Department of Commerce.
 - B. The minimum grade and species for posts, beams, headers, and other primary structural members shall be Dense Select Structural Southern Pine, unless specified otherwise.
 - C. Lumber used for secondary framing shall be #1 Southern Yellow Pine (SYP) 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.
 - E. Mechanically laminated columns shall conform with ANSI/ASAE EP 559.
3. 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: Ammonia Copper Quaternary ammonia (ACQ) or Copper Boron Azole (CBA)
 - 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 A153-01a.
4. Connections shall be designed and constructed according to the NDS by AF&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.

Polyvinyl Chloride Compound (PVC)

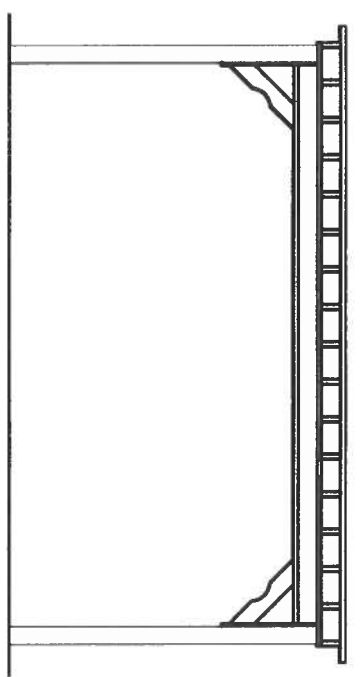
1. General Requirements
 - A. PVC sleeve material used to wrap wood members to be supplied according to CertainTeed corporation specifications or equivalent.
 - B. PVC sleeve material to be 0.160" thick for posts, and 0.105" thick for other structural members

Design Reaction Chart	
Max. uplift at column base	0 lb
Max. downward force at column base	750 lb
Max. shear at column base	270 lb



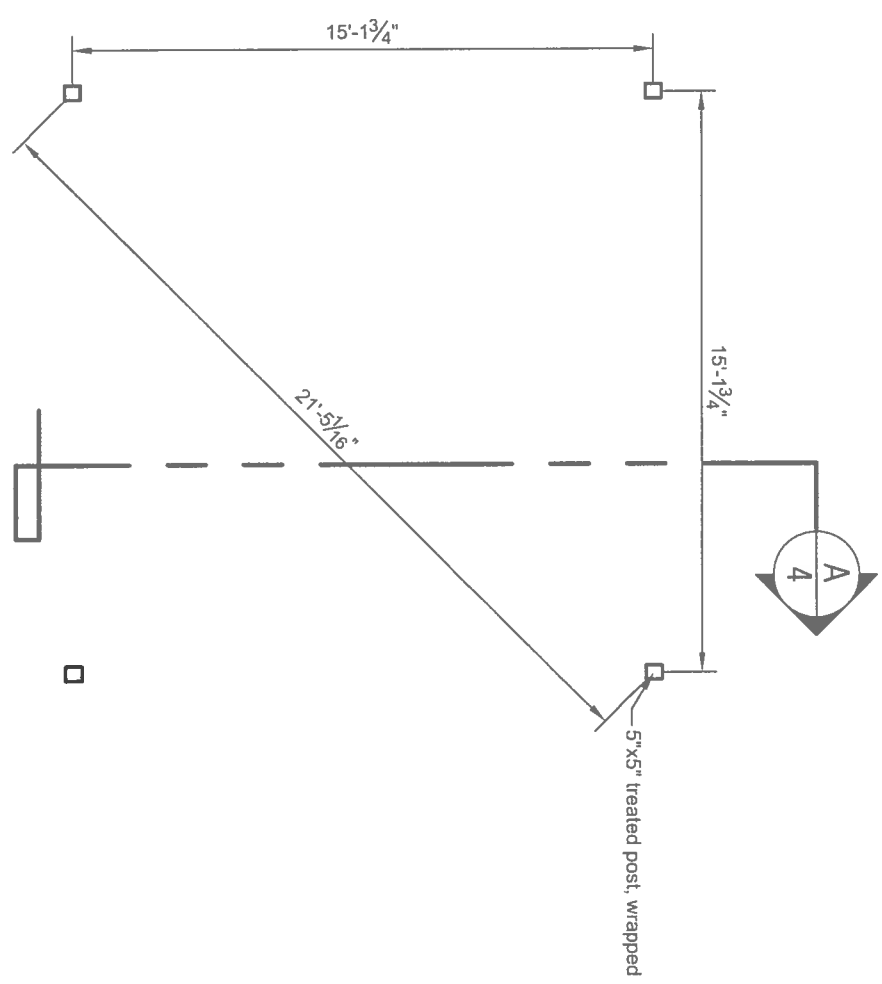
End Elevation

NTS



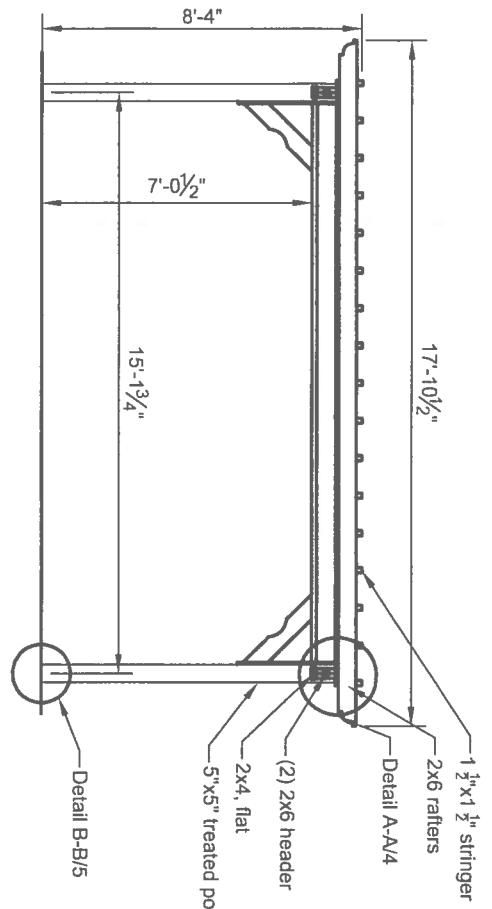
Side Elevation

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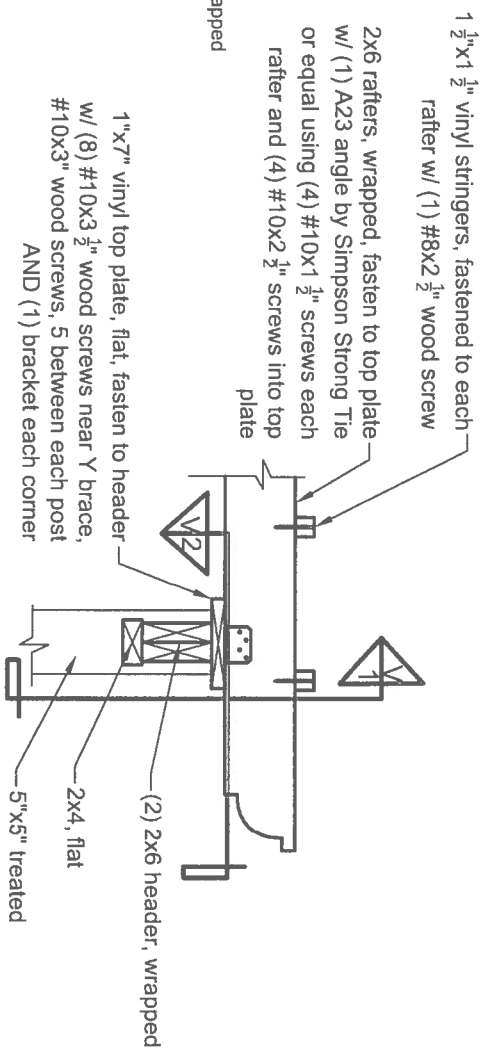
Post Layout Plan

NTS



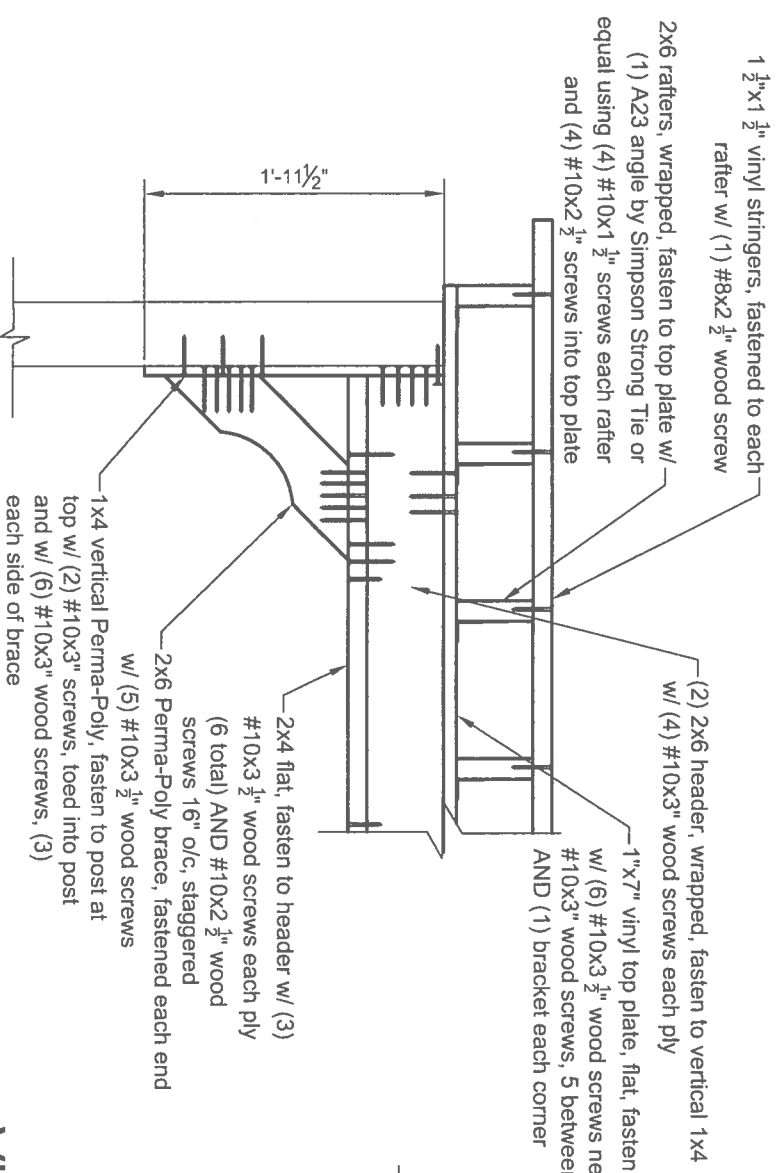
Cross Section A/4

NTS



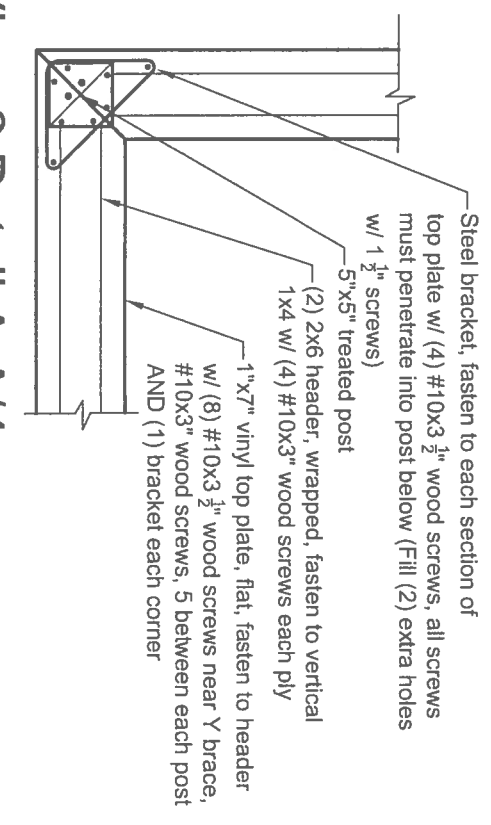
Detail A-A/4

NTS



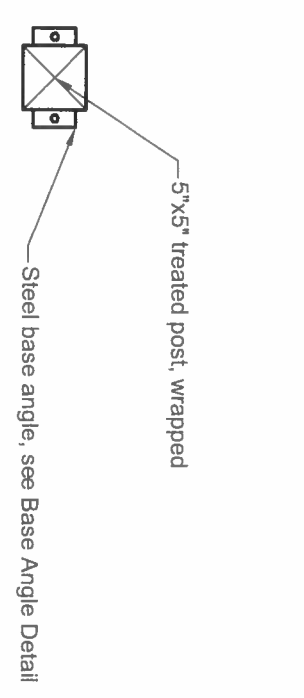
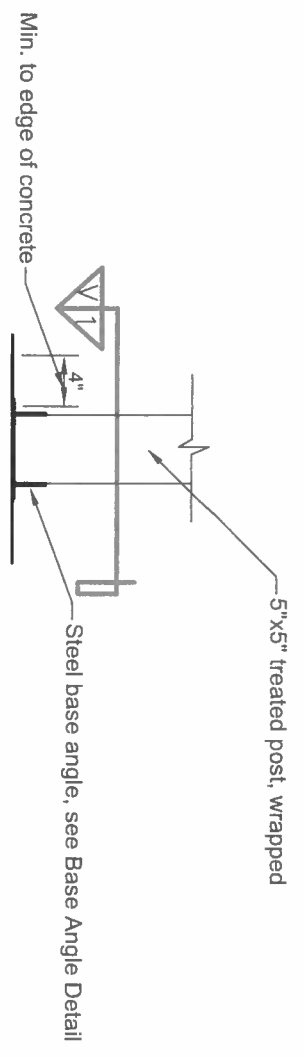
View 1 Detail A-A/4

NTS



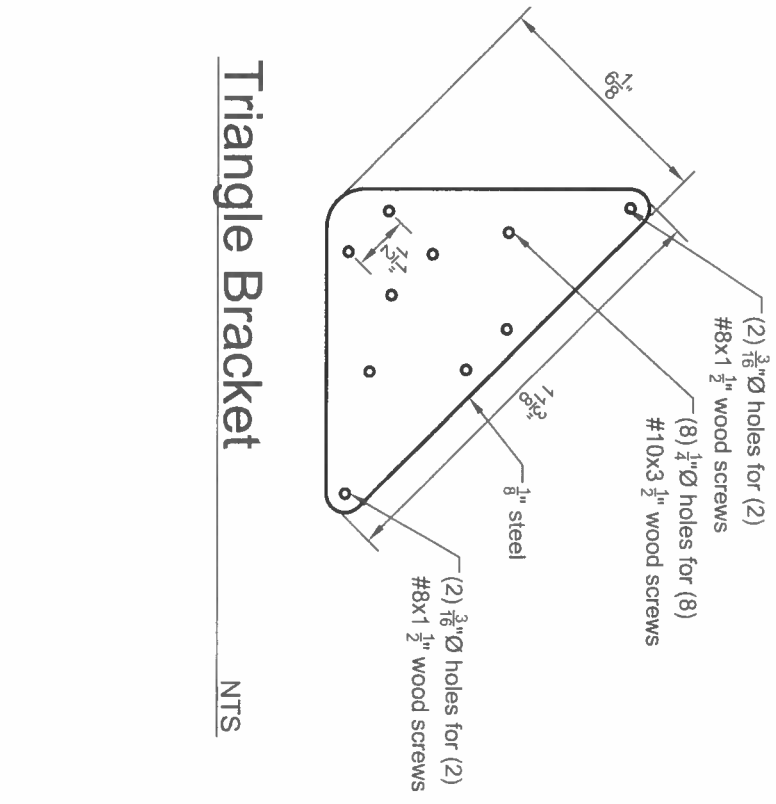
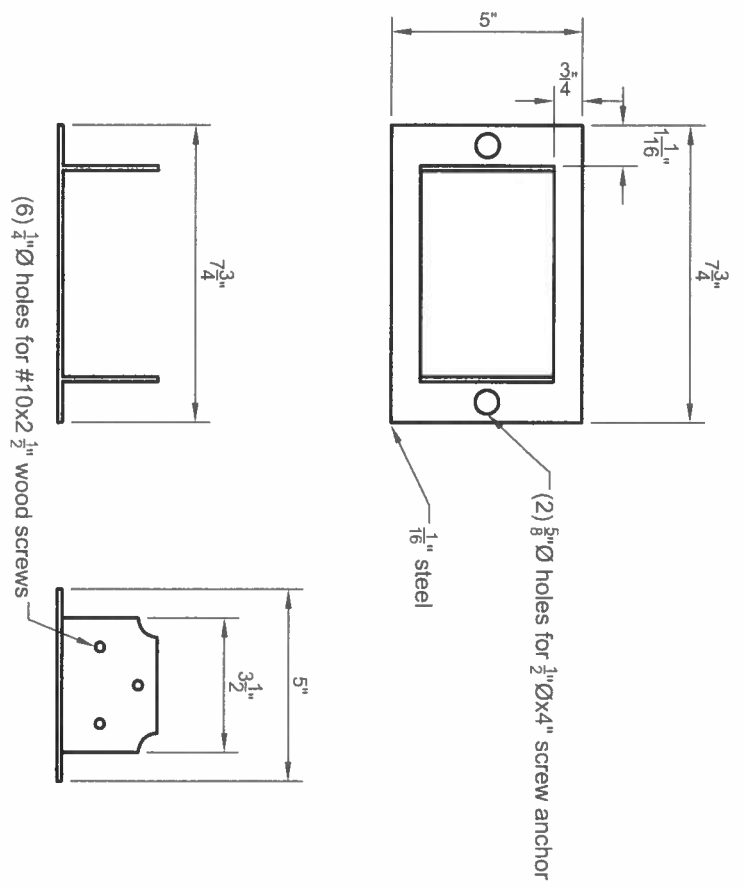
View 2 Detail A-A/4

NTS



Detail B-B/5 NTS

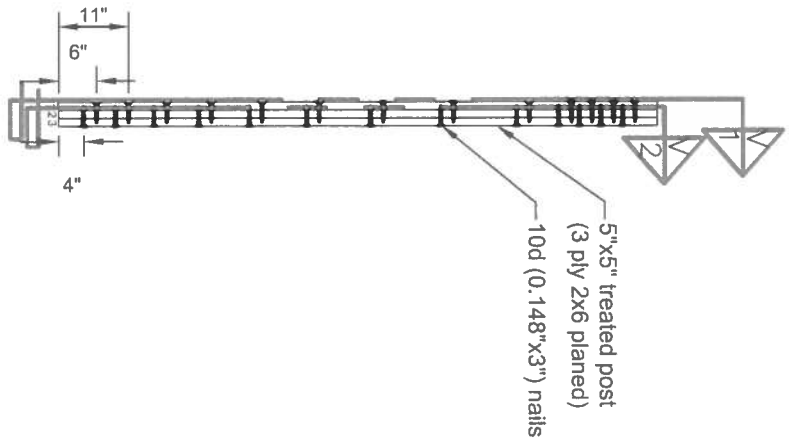
View 1 Detail B-B/5 NTS



Triangle Bracket NTS

Base Angle Detail NTS

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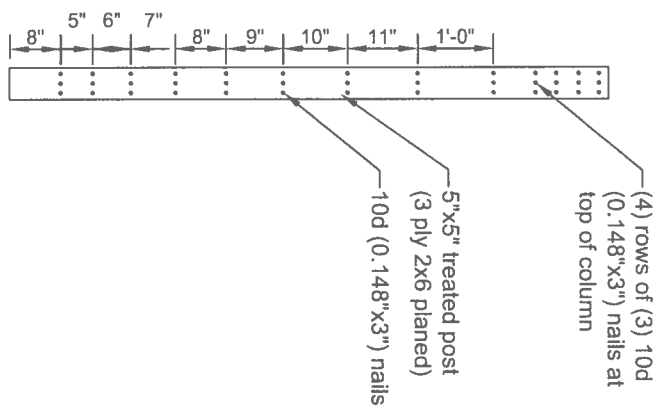


NTS

View 1

Nailing Detail for Ply 2 to Ply 3

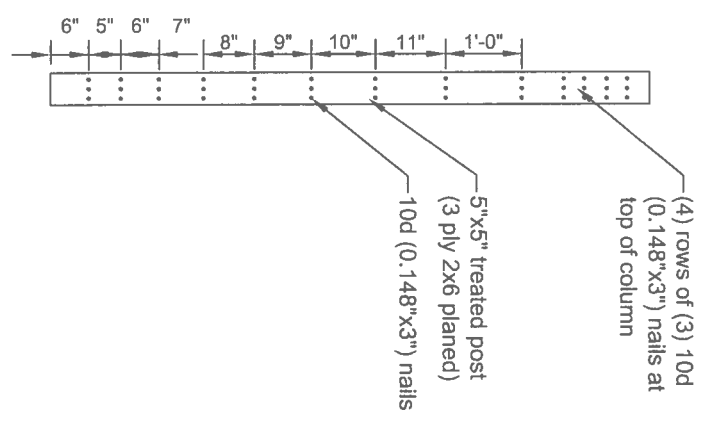
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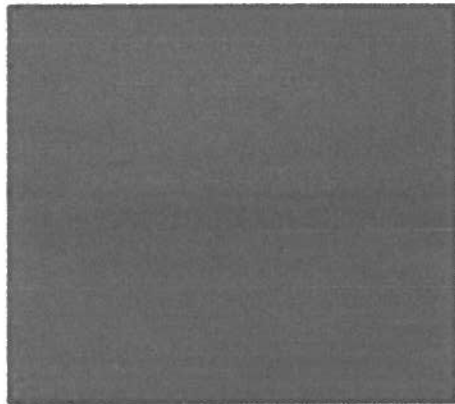
View 2

Nailing Detail for Ply 1 to Ply 2

NTS



Benjamin Moore
Semi-Solid Exterior Stain



HC-190