

QUESTIONS? Call or email us!

Town of Chapel Hill Office of Planning and Sustainability

Development Services 919-969-5066 planning@townofchapelhill.org

| Chapel Hill Historic District | Project: | 19-055 |
|---|-----------|---|
| Certificate of Appropriateness Application | | |
| Project Description: "Senlac" was built in 1843 by William Horn Battle, founder of the UNC Law School. Battle's son, Kemp, later lived in the home while serving as president of the University. It remained a single-family residence until 1964, when it was | Permit: | |
| purchased by the Baptist State Convention of NC. The house underwent an addition and renovation, sometime after 1949. It | | STAFF REVIEW |
| was likely to have been done by the Baptist Convention in the | X Applica | ation complete and accepted |
| 1960's, and the house was used as the Baptist Campus Ministry facility for many decades. The building was sold in 2015 to the North Carolina Study Center, a non-denominational Christian | | ation not complete and ith a notation of deficiencies |
| ministry center and place of worship. | BY: | |
| | DAIL. | Anya Grahn, 3/12/2019 |
| | | Amendment submitted 0/13/2021 |
| | | |
| | | |
| | | |
| | | |

Instructions: Submit one paper copy and a digital copy of all application materials collated in one file (pdf preferred)

Deadlines: Applications are due by the close of business 30 calendar days prior to the scheduled meeting date.

Note: Only complete applications may be accepted for Certificate of Appropriateness review. Applications that are not complete will be returned with a notation of deficiencies.



 \square Sign

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| A: Property Informat | ion | | | |
|---------------------------|------------------------------|---------------------------|-----------------------------------|----------------------------------|
| Property Address: | 203 Battle Lane | | Parcel ID Number: | 9788672508 |
| Property Owner(s): | Carolina Christian Stud | ly Center Inc. | Email: madison@ | ncstudycenter.org |
| | Contact Person: Madiso | on Perry, | | |
| | Executive Director | | | |
| Property Owner Addres | ss: 203 Battle Lane | | | |
| City: Chapel Hill | State: NC | Zip: 27705 | Phone: (919) | 391-8394 |
| Historic District: □Car | meron-McCauley 🗵 Franklir | n-Rosemary ☐ Gimg | houl Zoning Distri | ct: R-2, HD-1 |
| B: Applicant Informat | ion | | | |
| Applicant: Bret Horton | | | Role (owner, A architect, other): | rchitect |
| Address (if different fro | m above): 1308 Broad Stree | et | | |
| City: Durham | State: | NC Zip: | 27705 | |
| Email: bret@brethortor | n.com | | Phone: (919) | |
| | | | 619-2258 | |
| | | | | |
| C. Application Type (d | theck all boxes that apply | <i>'</i>) | | |
| | works that do not involve ar | | | |
| | | | | . 69) for a list of minor works. |
| ⊠Historic District Comi | mission Review Includes all | exterior changes to s | tructures and features of | ther than minor works |
| | | | | |
| Site-work only (walk | ways, fencing, walls, etc.) | ☐After-the-fact a | pplication (for unauthori | zed work already performed). |
| ☐Restoration or altera | tion | \square Demolition or n | noving of a site feature. | |
| ⊠New construction or | additions | ☐Request for rev | iew of new application a | fter previous denial |

D. Basic information about size, scale, and lot placement.

Provide measurements in feet and square feet where applicable. Where possible, please provide accurate measurements from a licensed surveyor, architect, engineer, etc. If exact measurements are not available, please provide estimated information. Current estimated information about lots and buildings can be found on the Ocunty Real Estate Data website. Information about lot placement can be found on the Chapel Hill and Ocunty Interactive GIS portals.



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| Zoning District: | Minimum setbacks | | | Maxim | num heights | | Lot size |
|-------------------------------|---|---------------|--------|------------------------|-------------|----------|-----------|
| | Street | Interior | Solar | Primary | Secondary | | |
| Required by zoning | 26' | 11' | 13' | 29' | 50' | | |
| Proposed | Senlac: 58.2', Battle: 197.0', S. Bound ary: 130.8' | 44.4' | 64.1' | 23'-1" | 30'-10" | | |
| | Existing | Change +/- | Total | Total Floor Area Ratio | | | |
| Floor Area (main structure) | 5,856 | +230 | 6,086 | Existing | Proposed | ISA/I | NLA ratio |
| Floor Area (all other) | 42 | +152 | 194 | 0.061 | 0.065 | Existing | Proposed |
| Impervious Surface Area (ISA) | 19,050 | + 2,394 | 21,444 | | | 0.22 | 0.24 |
| New Land Disturbance | | | 18,762 | | | | |

E: Applicable Design Guidelines

The Town's <u>Design Guidelines for the Chapel Hill Historic Districts</u> are integral to the application and review process. These guidelines supplement the required review criteria for Certificate of Appropriateness applications (provided in <u>Section 3.6.2(e)(4)</u> of the Land Use Management Ordinance) by providing detailed, practical considerations for how to make changes to properties while preserving the special character of their Historic District context. Please review the Design Guidelines and consider their applicability to your proposed project. (Attach additional sheets, as necessary.)

| Section/Page | Topic | Brief description of the applicable aspect of your proposal |
|--------------|-------|---|
| | | Please see attached sheets. |
| | | |
| | | |



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| F. Checklist of Application Materials | | | | | | | | |
|--|-------------------|-------------------------------|-----|-----|----|--|--|--|
| Attach the required elements in the order indicated. | CHED? PLETED CANT | TO BE COMPLETED BY TOWN STAFF | | | | | | |
| | YES | N/A | YES | N/A | NO | | | |
| 1. Written description of physical changes proposed. Describe clearly and in detail the physical changes you are proposing to make. Identify the materials to be used (siding, windows, trim, roofing, pavements, decking, fencing, light fixtures, etc.), specify their dimensions, and provide names of manufacturers, model numbers, and specifications where applicable. | \boxtimes | | | | | | | |
| 2. History, context, and character information. Please include a summary of what information you have relied on to understand the relevant character and history of the district and subject property—and briefly summarize that information. At a minimum, include: | \boxtimes | | | | | | | |
| Current property information for the lot and all structures, including Building Sketches and Building Details, from <u>Orange County Real Estate</u> <u>Data</u> . | | | | | | | | |
| The entry of your property on the most recent inventory of historic resources in the relevant National Register for Historic Places filing, available via the NC State Historic Preservation Office website: for McCauley-Cameron see West Chapel Hill , for Franklin-Rosemary see Chapel Hill , for Gimghoul see Gimghoul . (If yours is one of the few properties in McCauley-Cameron or Franklin-Rosemary that has not yet been inventoried, please indicate that.) | | | | | | | | |
| 3. Justification of appropriateness. Attach an annotated statement explaining how the proposed change(s) meets the following standards of appropriateness that the Commission considers in making findings of fact indicating the extent to which the application is or is not congruous with the historic aspects of the historic district. If a standard is not applicable, type "not applicable". | | | | | | | | |
| A. The height of the building in relation to the average height of the nearest adjacent and opposite buildings. | | | | | | | | |
| B. The setback and placement on lot of the building in relation to the average setback and placement of the nearest adjacent and opposite buildings. | | | | | | | | |
| C. Exterior construction materials, including texture and pattern. D. Architectural detailing, such as lintels, cornices, brick bond, and | | | | | | | | |
| foundation materials. | | | | | | | | |
| E. Roof shapes, forms, and materials.F. Proportion, shape, positioning and location, pattern, and size of any elements of fenestration. | | | | | | | | |
| G. General form and proportions of buildings and structures. | | | | | | | | |
| H. Appurtenant fixtures and other features such as lighting. | | | | | | | | |
| 1 Structural conditions and soundness | | | | | | | | |



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| J. Architectural scale. | | | |
|--|-------------|--|--|
| 4. Photographs of existing conditions are required. Minimum image size 4" x 6" as printed or the digital equivalent. Maximum 2 images per page. | \boxtimes | | |
| 5. Site Plan Set showing existing and proposed conditions. (Min. scale: 1 in. = 20 ft.) | | | |
| Site plans must show the relationships between, and dimensions of, existing and proposed buildings, additions, sidewalks, walls, fences, driveways, and/or other structures on the property, as well as property lines and applicable zoning setbacks. | | | |
| Include both written and drawn scales and show accurate measurements. You may also use a copy of a survey with surveyor's seal deleted. Revise the copy as needed to show existing conditions and your proposed work. | | | |
| Indicate the area of all structural footprints (existing and proposed) in square feet; also, indicate lot size in square feet. | | | |
| 6. Elevation Drawings showing existing structural facades and proposed changes. Drawings should be submitted as 11" x 17" or 8-1/2" x 11" reductions of full-size drawings. All details should be reasonably legible. Photographs are okay for facades with no changes. | | | |
| ☑ Elevation drawings showing all proposed changes above current grade from front, back, and both sides. | | | |
| Include scale bar, written scale, and label major dimensions (including width of structures and heights from finished grade to fascia/eaves and heights to top of roofs). | | | |
| oxtimes Label materials to be used (roofing, siding, windows, trim, light fixtures, etc.) | | | |
| 7. Information about context (required for all construction of new structures, proposed impervious surfaces greater than 1500 SF, additions greater than 150 SF, and/or proposed land disturbance greater than 5000 SF.) Detailed information about lots and structures can be found on the Orange County Real Estate Data website; information about lot placement can be found on the Chapel Hill and Orange County GIS portals. | | | |
| For each of the nearest adjacent and opposite properties, provide: | | | |
| oxtimes The height of each building (if an estimate, indicate that). | | | |
| The setbacks and lots placement of each building (an image from the Town GIS database, including scale, is sufficient). | | | |
| oxtimes The size of each lot (net land area in square feet). | | | |
| ☑ The size of all buildings on the nearest adjacent and opposite properties, including building footprint areas, Floor Areas (in square feet), and Floor Area Ratios. Provide current figures from Orange County Real Estate Data; indicate any corrections for accuracy you believe necessary and your basis for doing so. | | | |
| 8. Demolition/Relocation Information (required only if demolition or relocation of a feature is proposed). | | | |



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| Provide a written description of architectural features, additions, remodeling, and any alterations to the structure(s). Make note of any outbuildings on the site plan of the property. | | | |
|--|-------------|--|--|
| Provide a history of the structure, giving the construction date and architect or carpenter, briefly noting any significant events, persons and/or families associated with the property. Provide current exterior photographs of the property (4" x 6" as printed or the digital equivalent). If information is unknown, please provide a summary of sources consulted. | | | |
| If an argument about structural soundness is being made, attach a signed and sealed report from a professional engineer. | | | |
| As necessary, attach a statement explaining how a delay in demolition would cause the property owner to suffer extreme hardship or be permanently deprived of all beneficial use or return from such property by virtue of the delay. | | | |
| ☐ Provide any records about the structure to be demolished. | | | |
| 9. Mailing notification fee per <u>Planning & Sustainability Fee Schedule</u> . For a list of addresses, please refer to the Town's <u>Development Notification Tool</u> . | \boxtimes | | |
| 10. Certificate of Appropriateness fee per Planning & Sustainability Fee Schedule | | | |



QUESTIONS? Call or email us! Town of Chapel Hill Planning Department 29-969-5040

planning@rownofchapelhilLorg

G: Applicant signature

I hereby certify that I am authorized to submit this application; that all information is correct to the bask of my knowledge, and all work will comply with the State Building Code and all other applicable State and focal laws, ordinances, and regulations.

I acknowledge and agree that the Historic District Commission members, Town employees, and Town agents may enter, solely in performance of their official duties and only at reasonable times, upon the applicant's property for examination or survey thereof pursuant to North Carolina General Statute 160A-400.8. However, no member, employee, or agent of the Historic District Commission may enter any private building or structure without the express consent of the owner or occupant thereof.

I understand and agree that an approved Certificate of Appropriateness is valid only for the particular application, plans, specifications and related project details presented to, and approved by, the Historic District Commission. If any of the data contained in this application, any plans or any specifications presented to the Commission are changed or altered for any reason, including, but not limited to, changes or alternations deemed practically necessary during construction, required due to subsequent Town reviews, or otherwise, a new hearing before the Historic District may be required. By signing below, the applicant agrees to notify the Development Services Center of any changes or alternations in the data contained in this application, the approved plans or the approved specifications related to the project that is the subject of this application.

Hearings on Certificate of Appropriateness applications before the Commission are quasi-judicial proceedings. Therefore, Historic District Commission members are not permitted to discuss a pending application with the applicant or other party. By signing below, the applicant agrees to refrain from speaking with or contacting any member of the Historic District Commission about an application outside of the formal evidentiary hearing on the application.

| Bret Harton | Butto | 2/6/20 | 1 V |
|---------------------------|-----------------------|------------|--------|
| Applicant (printed name) | Signature | Date | 9 |
| Meedison Perry, Norm | Carolina Stedy Center | Jenes Pres | 2/6/20 |
| Property Owner | Signature | Date | |
| (if different from above) | | | |



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Certificate of Appropriateness Supplemental Requirements

*In addition to Residential Zoning OR Administrative Zoning Compliance Permit Requirements

Certificate of Appropriateness applications are subject to review and approval by the Historic District Commission as well as by Town staff. For assistance with this application, please contact the Chapel Hill Planning Department.

Please submit *all* **materials listed** <u>on this sheet</u>. The Historic District Commission meets on the second Tuesday of each month at 6:30 pm. For confirmation of a meeting date and the placement of your request on the agenda, please call the Planning Department. **Applications are due one month in advance of meeting.**

Application Process:

- 1. Historic District Commission Review of Certificate of Appropriateness (COA) Supplemental materials
- 2. Staff review of Residential / Administrative Zoning Compliance Permit (ZCP) materials

**COA (step 1) and ZCP (step 2) materials may be submitted simultaneously or separately.

Required Application Materials

(In addition to Residential Zoning Compliance Permit or Administrative Zoning Compliance Permit Requirements)

An Electronic copy of each document is required in addition to paper copies.

Provide a single set of the following materials:

| | 1. Application Form. Either <u>Residential</u> Zoning Compliance or <u>Administrative</u> Zoning Compliance. |
|----------|--|
| | 2. Recorded plat or deed verifying property's current ownership |
| | 3. Recorded plat of easements, right-of-way, and dedications, if applicable |
| | 4. Mailing List of Property Owners, applicable within 100 feet of property boundaries |
| <u> </u> | The Town will prepare a formal notice to be mailed to surrounding property owners about the |
| | application. You may find it helpful to discuss the proposed changes with your neighbors in person so |
| | you can address their concerns both in your planning and presentation. |
| | 5. Mailing notification fee. The fee per address can be found on the Planning Department's Fee Schedule . |
| | 6. Certificate of Appropriateness fee per <u>Planning Department's Fee Schedule</u> |
| | 7. Reduced Site Plan Set (reduced to 8.5" x 11") |
| | 8. Building Elevations (label building height from top of roof to finished grade line) |
| | 9. Floor Plan, only if accessory apartment, duplex, or commercial application. |
| | |

(Continued)



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10. Written Description Describe all proposed changes to the property, list all materials to be used, and address the criteria (listed below) that the Commission uses to determine appropriateness. Presenting your proposal with these criteria in mind will provide a clear basis for the Commission's deliberations. The height of the building in relation to the average height of the nearest adjacent and opposite buildings: b) The setback and placement of the building on the lot in relation to the average setback and placement of the nearest adjacent and opposite buildings; The exterior construction materials, including textures and patterns; d) The architectural detailing such as lintels, cornices, brick bond, and foundation materials; The roof shape, form, and materials; The proportion, shape, location, pattern, and size of any elements of fenestration (windows, doors); g) The general form and proportion of the buildings; The accessory fixture and other features (including lighting fixtures, hardware, awnings, etc.); The architectural scale in relation to existing structures and surrounding buildings; and j) Structural conditions and soundness. Provide photographs of existing property and elevation drawings of the proposed changes. Depict changes in as much detail as possible, paying special attention to those features which the Commission uses to determine appropriateness. This section of the application allows the Commission to see the current state of the property, to visualize the proposed changes, and to assess the impact. The visual description must include dimensions. For new buildings and major additions, the visual description must include the interior floor plan. 11. Information Regarding Surrounding Properties For new construction or large projects, the applicant is required to provide information on: The height of the nearest adjacent and opposite buildings; • The setback and placement of the nearest adjacent and opposite buildings; The scale of the nearest adjacent and opposite buildings, including percentage of lot coverage.

Provide a description of architectural features, additions, remodeling, and any alterations to the structure(s). Make note of any outbuildings on the site plan of the property. Provide a history of the structure, giving the construction date and architect or carpenter, briefly noting any significant events, persons, and/or families

12. **Demolition Information (if applicable)**

associate with the property.



Written Description of Physical Changes Proposed

We propose to install cedar shingles on the locations of the house where new asphalt architectural shingles were previously approved and where they currently exist on the house. These locations include all the roof over the two-story portion of the house and the roof over the one-story, hipped-roof wings. Please see drawings for further information about location of proposed cedar shingles. The shingles are to be western red, pressure-treated cedar and are to have random widths but a consistent 5 ½" exposure. The ridges are to be cedar and the valleys (only two and, because of the pitch and height of the roof, difficult to see from the street) are to be a "classic bronze" finished metal to give the appearance of pantinated copper.

We propose to replace six existing columns on the front of the house with fiberglass/concrete composite columns made by HB&G. The columns we propose to replace include: (3) all-wood columns, likely original to a 1920's renovation; (2) replacement fiberglass/concrete composite columns; and (1) column with a wood shaft and wood capital, both of which may or may not be original to the 1920's renovation, and a furniture-grade structural foam base. The six new columns we propose are HB&G's round tapered "PermaCast" columns, made of fiberglass-reinforced concrete shafts and furniture-grade structural foam bases and capitals. Their details, dimensions, and profiles are of the simplified doric order (referred to as "Tuscan" by the product literature), and the profiles and dimensions of their base and cap are very similar to those of the existing wood columns. The product cut sheets, provided as part of this application, demonstrate their similarity to the details of the existing all-wood columns. The proposed columns' base diameter (11.6") is less than an inch less than the average of the three existing all-wood columns (12.5"), and their upper diameter (9.4") is only slightly more than an inch less than the upper diameter of the existing all-wood columns (10.6").

Applicable Design Guidelines

| Page / Standard # | Topic | Brief description of the applicable aspect of your proposal |
|--------------------------------|----------------------------------|---|
| Page #79-82 / Standard #3.1 | Roofs, Gutters, & Chimneys | This will be one of probably a number of roofing replacements over the history of the 180-year-old house. Old photographs show evidence of a wood roof over the two-story portion of the house. We believe the western-red cedar roof we propose will be similar to that roof. |
| Page # 64-66 Standard #2.1 | Wood | The applicant believes there is an ongoing risk of water damage to the six columns which support the front porch. The replacement, which happened at an unknown date in the past, of two of the six columns with fiberglass/concrete replacement columns points to a history of damage. The water damage evident on the three existing all-wood (shaft, base, and capital) columns also points to a history of damage. A past replacement of the base of the sixth column also points to a history of damage. The shaft of this sixth column is wood, but it is 1" smaller in diameter than the three all-wood columns, which could be evidence of it also being a replacement column. The height of the porch, the relatively shallow eave, the details of the columns, which include horizontal surfaces on which water can sit, and the lack of significant pitch of the front porch floor have all likely led to water damage. Some form of replacement will have to happen, as all of the existing all-wood columns show damage, either in their shafts, bases, or capitals, and much of the damage is beyond the scope of repair. The owner of the house would like easier to maintain and more durable columns, which are historically accurate except for their material. The proposed columns would be painted to match the finish of the existing wood columns. The applicant hopes Standard 2.1.6 could allow for such a substitution. |
| Page # 96-99 | Porches, | Please see description for "wood", above. |
| Standard #3.6 | Entrances, | |
| | & Balconies | |

Photographs



Photo, date unknown, showing circa 1876 Italianate-style renovation. Upper roof appears to be wood shingle while the roof the over one-story wings appears to be metal. Italianate, double columns can be seen on the porch.



West elevation today, during renovation. The house was renovated in the 1920's in the colonial revival style, and the Italianate double columns were replaced at that time with classical-order single columns. Columns, for the purpose of this application, are numbered from left (north) to right (south): N3, N2, N1, S1, S2, and S3.



Column N3. Non-original replacement column. Shaft is fiberglass/concrete composite and base and capital are furniture-grade structural foam.



Column N3 base. Furniture-grade structural foam base, lifted up to show how it slides onto shaft.



Column N2. Non-original replacement column. Shaft is fiberglass/concrete composite and base and capital are furniture-grade structural foam.



Column N2 capital. Furniture-grade structural foam capital and base do not show any indication of needing repair.



Column N1. Likely an original column from the 1920's renovation. All wood.



Column N1 capital. Holes in capital indicate where screw-driver probe test was performed and where significant rot was discovered.



Column N1 base. A screwdriver was able to be pushed well into the wood at the bottom left corner of the base.



Column S1. Likely an original column from the 1920's renovation. All wood.



Column S1 base. Shows significant water damage. Metal standoffs, at the four corners of the base, were employed at some point in the past in an attempt to allow air and water circulation under the base.



Column S2. Likely an original from the 1920's renovation. All wood. A large split in the finger-jointed wood of the shaft can be seen on the right edge of the column.



Column S2 capital showing water damage.



Column S3. Perhaps an original from the 1920's renovation, however wood shaft is narrower than other wood shafts, capital is wood; the base is a replacement furniture-grade structural foam base.



Round Tapered **PERMA**Cast® Columns

| COL. SIZE | A | В | С | D | Е | F | G | J | K | L | 0 | N | R | Т | LENGTHS AVAIL (ft.) |
|--------------|-------|--------|--------|--------|-------|-------|--------|-------|-------|----------|------|-------|--------|---------|-----------------------------------|
| 6" | 5%" | 45/8" | 9" | 17/16" | 1¼" | 5/8" | 3/4" | 1¼" | 13%" | 8" | 1" | 61/4" | 35/16" | 47/16" | 4,6,8 |
| 8" | 75/8" | 6¼" | 10½" | 17/8" | 1¾" | 3/4" | 13/16" | 1¼" | 1½" | 9¼" | 1/2" | 2¼" | 43/8" | 4½" | 5,6,800 |
| 10" | 95/8" | 81/8" | 131/8" | 23/8" | 21/8" | 3/4" | 13/16" | 1½" | 1¾" | 11¼" | 5/8" | 2¼" | 5¼" | 5" | 6,8,9,10,12 |
| 12" | 11%" | 9¾" | 16½" | 27/8" | 23/8" | 7∕8" | 13/16" | 1¾" | 2¼" | 13¾" | 3/4" | 2%" | 61/8" | 5¾" | 6, 89,012 14,16,18 |
| 14" | 13%" | 11%" | 19½" | 33/8" | 33/8" | 11/8" | 1" | 2" | 21/8" | 17" | 7∕8" | 2%" | 7¾" | 7" | 8 9,10 12 14 16, 18 |
| 16" | 15¾" | 13%" | 22" | 37/8" | 33/8" | 11/8" | 13/16" | 2¼" | 25/8" | 19%" | 1" | 3" | 83/8" | 8" | 8,0,12,14,16 18, 20 |
| 18" | 17½" | 15¾" | 245/8" | 4" | 4" | 1%" | 17/16" | 2¾" | 31/8" | 223/8" | 1½" | 10¾" | 9%" | 87/8" | 8,10,12,14,16, 18,20,22,24,26 |
| 20" | 19½" | 17¾6" | 27" | 4¾" | 4½" | 2" | 17/16" | 21/8" | 3%" | 2415/16" | 1½" | 10¾" | 11¼" | 9" | 10,12,14,16,18 20,22,24 |
| 22" | 21%" | 19¼" | 30¼" | 5" | 5" | 2" | 1%" | 3" | 3¾" | 27½" | 1½" | 10¾" | 12" | 10¼" | 16,18,20,22, 24,26 |
| 24" | 23%" | 21¼" | 33½" | 6" | 51/4" | 21/4" | 2" | 3½" | 4" | 30%" | 1½" | 10¾" | 13½" | 115/16" | 12,14,16,18,20, 22,24,26,28,30 |
| 28" | 28" | 241/8" | 38" | 6¾" | 6½" | 2¾" | 21/4" | 3¼" | 47/8" | 33%" | 1½" | 10¾" | 15½" | 11¾" | 20,22,24,26,28 |
| 30" | 29%" | 26½" | 41%" | 6½" | 57/8" | 2½" | 3" | 4" | 45/8" | 38¼" | 1½" | 10¾" | 14%" | 14¾" | 20,22,24,26,28 30 |

*There may be a variance of up to 1/4" in all dimensions. Fluted columns available in all diameters. See page 16 for Parallel dimensions. See page 18 for Decorative Capital dimensions.

Standard Fluted Column (Fluted in mold)

COLUMN-LOC®

Column-Loc® creates a continuous connection from floor to beam/ header without the expense of splitting and reattaching the column. This labor saving product is easy to install and delivers wind uplift resistance especially important in coastal and high wind

areas. Currently available for 8" and 10" round (tapered and no-taper) and square PermaCast® columns. Kits are available with and without threaded rod in lengths up to 12!.*



PLUMB-FIT®

To make installation even easier our

6"-12" round and square poly Tuscan Cap and Base Sets with flashing cap come with the Plumb-Fit® patented (Patent 9689674) installation system included.

ROUND PERMACAST® PORCH INSTALLATION BRACKET

The HB&G Porch Installation Bracket includes the bracket and all required hardware. The bracket fits 20" - 30" Plain Round PermaCast® Columns and will secure a 2nd story porch to our PermaCast® Columns. Three brackets are required for each column.

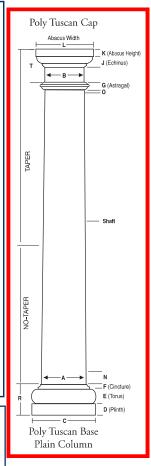
Round PermaCast® Inside Dimensions

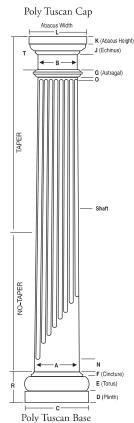
Inside dimension may vary up to 1/8". Splitting a column will decrease inside dimension 1/8".



| COLUMN SIZE | TOP I.D. | BOT I.D. |
|-------------|----------|----------|
| 6" | 37/8" | 47/8" |
| 8" | 5½" | 67/8" |
| 10" | 73/8" | 87/8" |
| 12" | 85/8" | 10%" |
| 14" | 10%" | 12%" |
| 16" | 121/8" | 15" |
| 18" | 14½" | 16%" |
| 20" | 165/16" | 18%" |
| 22" | 18¾" | 2013/16" |
| 24" | 20" | 22¾" |
| 28" | 22¾" | 26¾" |
| 30" | 25¼" | 28¾" |
| | | |

^{*}Plain columns only



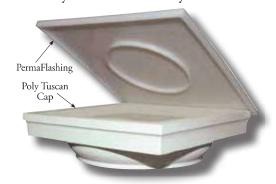


Fluted Column

[•] Split columns are not load bearing.



HB&G's number one goal is finding ways that we can save you time and make your life easier.



PermaCast® PermaFlashing and Installation Kit

The PermaCast® flashing with Plumb-Fit® and installation kit is available in selected Tuscan cap and base sets.*

This innovation will not only save time but will keep the elements out of the column and secure the top and bottom of the column.

*Not available in Tuscan cap and base sets for Craftsman, No-taper, PermaLite®, and Wood columns.

Split Column Assembly and Flange Kits

HB&G offers a split kit and a split kit with flange option

with an improved MMA adhesive. These kits can be purchased separately. **MMA**

adhesive must be stored in a climate-controlled environment.



Entasis - Parallel Dimensions are used to specify where the column begins to taper. These dimensions use length from the bottom of the column shaft to the point where the taper begins. This is necessary to determine how much a column can be shortened before the base begins to fit loosely. Filler and caulking may be used to fill the gap between the base and shaft if it is necessary to shorten the column beyond the parallel dimension.

| Parallel D | DIMENSIONS* |
|------------|-------------|
| | |

| TARALLEL DIMENSIONS | | | | |
|---------------------|------------------|----------------|------------------|--|
| Column Size | Parallel Dim. | Column Size | Parallel Dim. | |
| 6x4 | 0" | 18x18 | 60" | |
| 6x6 | 8" | 18x20 | 84" | |
| 6x8 | 32" | 18x22 | 49" | |
| 8x5 | 12" | 18x24 | 73" | |
| 8x6 | 24" | 18x26 | 97" | |
| 8x8 | 32" | 20x10 | 0" | |
| 8x9 | 28" | 20x12 | 0" | |
| 8x10 | 40" | 20x14 | 0" | |
| 10x6 | 8" | 20x16 | 4" | |
| 10x8 | 32" | 20x18 | 28" | |
| 10x9 | 28" | 20x20 | 52" | |
| 10x10 | 40" | 20x22 | 76" | |
| 10x12 | 48" | 20x24 | 100" | |
| 12x6 | 8" | 22x16 | 45" | |
| 12x8 | 32" | 22x18 | 69" | |
| 12x9 | 20" | 22x20 | 93" | |
| 12x10 | 32" | 22x22 | 53" | |
| 12x12 | 48" | 22x24 | 77" | |
| 12x14 | 59" | 22x26 | 101" | |
| 12x16 | 40" | 24x12 | 21" | |
| 12x18 | 73" | 24x14 | 45" | |
| 14x8 | 32" | 24x16 | 69" | |
| 14x9 | 12" | 24x18 | 93" | |
| 14x10 | 24" | 24x20 | 75" | |
| 14x12 | 48" | 24x22 | 99" | |
| 14x14 | 27" | 24x24 | 123" | |
| 14x16 | 51" | 24x26 | 77" | |
| 14x18 | 75" | 24x28 | 101" | |
| 16x8 | 16" | 24x30 | 125" | |
| 16x10 | 40" | 28x20 | 20" | |
| 16x12 | 29" | 28x22 | 44" | |
| 16x14 | 53" | 28x24 | 68" | |
| 16x16 | 36" | 28x26 | 92" | |
| 16x18 | 60" | 28x28 | 116" | |
| 16x20 | 84" | 30x20 | 92" | |
| 18x8 | 0" | 30x22 | 116" | |
| 18x10 | 16" | 30x24 | 140" | |
| 18x12 | 40" | 30x26 | 75" | |
| 18x14 | 48" | 30x28 | 99" | |
| 18x16 | 36" | 30x30 | 123" | |
| | | | | |

| Column Size | Bottom Diameter |
|-------------|-----------------|
| 6x4 | 53/8" |
| 18x8 | 171/4" |
| 20x10 | 1811/16" |
| 20x12 | 185/16" |
| 20x14 | 191/4" |

*For Tapered Round Columns



Bret Horton Architect

1308 Broad Street Durham, NC 27705 919.619.2258

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Addition & Renovations to The Battle House

NC STUDY CENTER

203 Battle Lane Chapel Hill, NC 27514

HISTORIC DISTRICT COMMISION REVIEW

Not For Construction

ISSUED

REVISIONS

NO. DATE

NO. DATE

NO. DATE

NO. DATE

EXISTING WEST ELEVATION

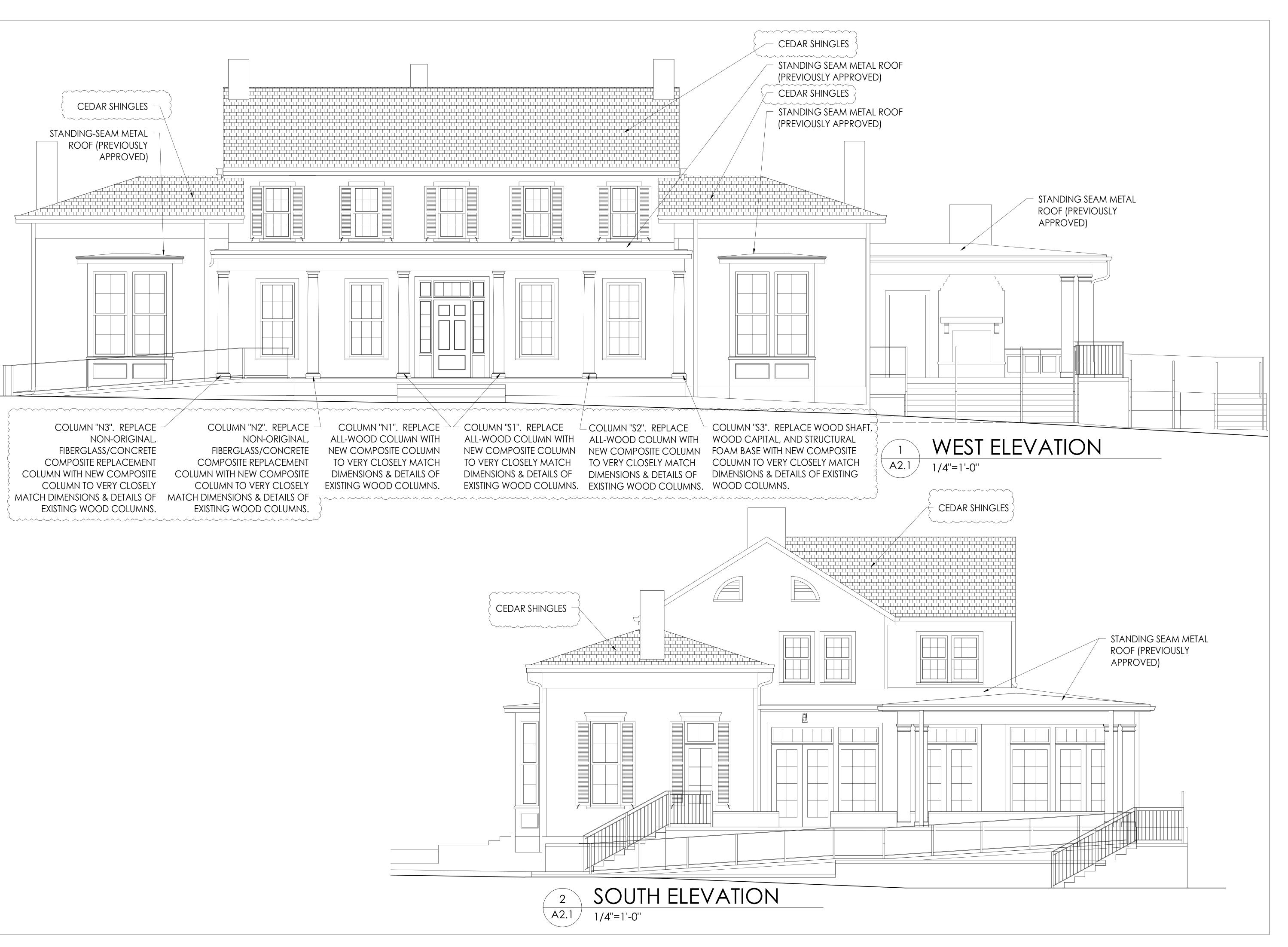
DATE

SHEET

9,10,21
SCALE
AS NOTED

BH PROJECT NUMBER

J.I.dwg



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ISSUED

NO. DATE

NO. DATE

NO. DATE

NO. DATE

NO. DATE

EXTERIOR ELEVATIONS

9.10.21

AS NOTED
RAWN

BH PROJECT NUMBER

J.I.dwg



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