



# Staff Report - Certificate of Appropriateness Application

Knoxville Historic Zoning Commission

File Number: 2-B-20-HZ

**PROPERTY LOCATION:** 1324 Grainger Ave. / Parcel ID 81 L G 005

**DISTRICT:** Old North Knoxville H-1

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**MEETING DATE:** 2/20/2020

**APPLICANT:** Troy Wilson Prime Renovations (Contractor)

**LEVEL OF WORK:** Level II. Major repair or replacement of materials or architectural elements

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**PROPERTY DESCRIPTION:** Queen Anne Cottage (c.1898)

One-and-one-half-story, frame residence with wood weatherboard wall covering. Hipped roof, clad in asphalt shingles, features lower cross-gables, sawtooth trim, and drop pendants. Windows are one-over-one, double-hung wood sash. Façade features a one-story, two-bay front porch with a hipped roof, supported by two half-round wood engaged pilasters with Ionic capitals and two round replacement wood columns. Façade features a cutaway bay with a sunburst motif in sawn wood trim. Two interior offset brick chimneys.

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► **DESCRIPTION OF WORK:**

- Columns: replacement of two half-round porch columns with new 8" half-round fiberglass columns with "PermaCast Poly Cap and PermaTuff Base."
  - Repair, and replacement in-kind in patches, of wood tongue-and-groove porch flooring
  - Temporary removal and resetting of corner column to address flooring repair.
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► **APPLICABLE DESIGN GUIDELINES:**

Old North Knoxville Design Guidelines, adopted by the Knoxville City Council on November 25, 2004.

Porches

1. Historic porches on houses in Old North Knoxville should be repaired, or may replicate the original porch if documentation of its size and design can be discovered.

Wood wall coverings

6. Wood features that are important in defining the original historic character of the building shall not be removed.
  7. Replace only deteriorated wood. Reconstructing in order to achieve a uniform or "improved," "new" appearance is inappropriate because of the loss of good historic materials.
  8. An entire wooden feature that is too deteriorated to repair or is completely missing shall be replaced in kind. If features are replaced, the materials they are made from shall be compatible with the original in size, scale, and material.
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## COMMENTS:

N/A

## STAFF FINDINGS:

1. 1324 Grainger Avenue is a contributing resource to the Old North Knoxville H Overlay.
2. Repair and replacement in-kind of patches of wood tongue-and-groove flooring is appropriate within the guidelines and could be addressed via a Level 1 COA.
3. The porch features four columns: two full columns and two half columns set against the house's exterior walls. All four columns are wood. The two half columns are 8" in diameter and feature split, plaster decorative capitals. The half columns feature Scamozzi capitals, similar to Ionic style but with curved volutes. The full columns have rounded Doric-style capitals and are 8" in diameter. The full columns (and associated capitals and bases) are non-historic and were installed sometime in the late 1990s, replacing non-historic round columns on brick piers.
4. The applicant has submitted photographs depicting rot damage at the bases of half columns, at the capitals, and on the wood tongue-and-groove flooring beneath the columns. The original Ionic capitals have deteriorated and one photograph shows a capital broken in half.
5. Fiberglass (or fiber-reinforced polymer composite) columns have been approved in Old North Knoxville and Fourth & Gill in 2012, 2013, and 2014. The 2012 approval at 230 E. Oklahoma states that while no substitute material can adequately replicate the unique texture of wood, the "painted surface of a composite column is more difficult to discern from the painted surface of a new wood column," and new wood columns lack the patina of sanding, layers of paint, etc. The 2012 approval notes that "new wood or new composite columns would be equally devoid of texture and 'new' in appearance." The 2013 approval at 229. E. Scott (for columns on a new garage) notes that "fiberglass column, capitals, and bases do not significantly differ in appearance from that of wood."
6. The proposed replacement columns are PermaCast brand, round, 8" columns which match the diameter and overall design of the existing. The columns are compatible in size and scale with the existing. The proposed replacement capital and base are described by the manufacturer as a "Tuscan PermaTuff Base and Poly Cap." While the PermaTuff Base is simple in design and could be an appropriate replacement for the existing base, the Tuscan Poly Cap does not reflect the design of the house's original capitals. HB&G, the manufacturer, has multiple options for decorative capitals, including a Scamozzi capital which better matches the design of the existing.

## STAFF RECOMMENDATION:

Staff recommends approval of the work as proposed, with the condition that the replacement capitals better reflect the design of the original Scamozzi capitals, with approval by staff.



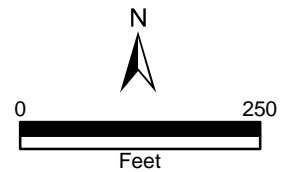
**2-B-20-HZ**  
**APPLICATION FOR CERTIFICATE OF APPROPRIATENESS**



1324 Grainger Ave. 37917  
 Old North Knoxville H-1

Original Print Date: 2/10/2020  
 Knoxville/Knox County Planning -- Historic Zoning Commission

Petitioner: Troy Wilson Prime Renovations





# DESIGN REVIEW REQUEST

- DOWNTOWN DESIGN (DK)
- HISTORIC ZONING (H)
- INFILL HOUSING (IH)

Troy Wilson - Prime Renovations

Applicant	2/3/2020	2/20/2020	2-B-20-HZ
Date Filed		Meeting Date (if applicable)	File Number(s)

## CORRESPONDENCE

All correspondence related to this application should be directed to the approved contact listed below.

- Owner  Contractor  Engineer  Architect/Landscape Architect

Troy Wilson	Prime Renovations		
Name	Company		
11124 Kingston Pike Ste. 119-237	Knoxville	TN	37934
Address	City	State	Zip
865-771-1285	troy@remodelknoxville.com		
Phone	Email		

## CURRENT PROPERTY INFO

Amy & Nolan Sherrill	1324 Grainger Avenue Knoxville, TN 37917	678-878-8993
Owner Name (if different from applicant)	Owner Address	Owner Phone
Amy & Nolan Sherrill	081LG005	
Property Address	Parcel ID	
1324 Grainger Avenue Knoxville, TN 37917		
Neighborhood	Zoning	

## AUTHORIZATION

	Lindsay crockett	2/3/20
Staff Signature	Please Print	Date
	Troy Wilson	2/3/20
Applicant Signature	Please Print	Date

# REQUEST

## DOWNTOWN DESIGN

**Level 1:**

- Signs     Alteration of an existing building/structure

**Level 2:**

- Addition to an existing building/structure

**Level 3:**

- Construction of new building/structure     Site design, parking, plazas, landscape

**See required Downtown Design attachment for more details.**

Brief description of work: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## HISTORIC ZONING

**Level 1:**

- Signs     Routine repair of siding, windows, roof, or other features, in-kind; Installation of gutters, storm windows/doors

**Level 2:**

- Major repair, removal, or replacement of architectural elements or materials     Additions and accessory structures

**Level 3:**

- Construction of a new primary building

**Level 4:**

- Relocation of a contributing structure     Demolition of a contributing structure

**See required Historic Zoning attachment for more details.**

Brief description of work: Front Porch: Replace half columns against the house with new 8" round fiberglass Tuscan style. Replace porch flooring on each end of of porch (rot damaged areas). Remove and reset existing front porch corner column.  
 \_\_\_\_\_  
 \_\_\_\_\_

## INFILL HOUSING

**Level 1:**

- Driveways, parking pads, access point, garages or similar facilities     Subdivisions

**Level 2:**

- Additions visible from the primary street     Changes to porches visible from the primary street

**Level 3:**

- New primary structure  
 Site built     Modular     Multi-Sectional

**See required Infill Housing attachment for more details.**

Brief description of work: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## STAFF USE ONLY

**ATTACHMENTS**

- Downtown Design Checklist  
 Historic Zoning Design Checklist  
 Infill Housing Design Checklist

**ADDITIONAL REQUIREMENTS**

- Property Owners / Option Holders

**Level 1:** \$50 • **Level 2:** \$100 • **Level 3:** \$250 • **Level 4:** \$500

<b>FEE 1:</b>	<b>TOTAL:</b>
<b>FEE 2:</b>	
<b>FEE 3:</b>	

# PERMA Capitals and Bases

Choosing the right cap and base for your columns is as important as the selection of the column itself. The right cap and base can define the style of the front porch and create an atmosphere that complements your lifestyle. The cap and base options offered by HB&G are shown on page 9. Please refer to the following data that corresponds with your cap and base selection to ensure that you end up with the products that work best for you.

## CAPITAL AND BASE OPTIONS

Most capitals and bases for PermaCast® columns are made of polyurethane and are decorative. The shaft fits through the center of the capital and base and does not alter the height of the shaft. Decorative capitals for round PermaCast® columns will alter the height of the shaft.

## TUSCAN CAP AND BASES

The Tuscan style is standard and best complements the PermaCast® column. The Tuscan is available for all round and square shafts. For dimension see pages 11-12, 14-15, and 18.

## DECORATIVE CAPITAL

Five styles of decorative capitals are available for all round tapered and square shafts. Using a decorative capital with a round PermaCast® shaft will alter the height of the shaft. Decorative capitals do not alter the height of the shaft when used on a square PermaCast® Column.

## ATTIC BASE

Attic Bases are used for a more ornate look and come in 1 or 2 pieces depending on their size.

## COLONIAL CAP AND BASE

Referred to as our low profile cap and base, the Colonial is designed specifically for use in applications where railing will be attached to the column. Available for PermaCast® round and square shafts 6"-12".

## CROWN CAP

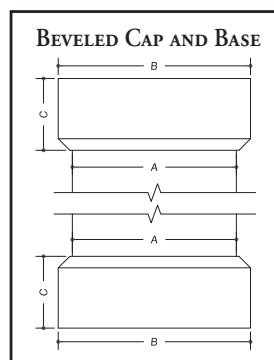
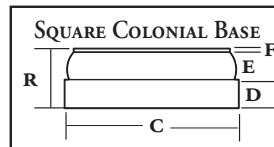
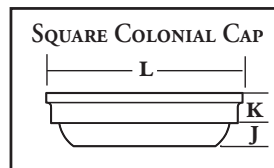
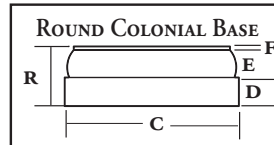
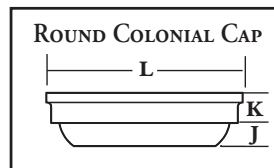
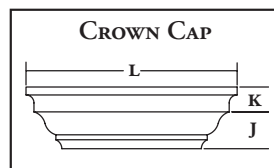
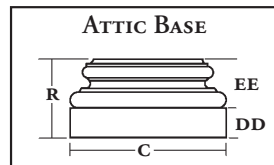
Available for PermaCast® Square shafts 6-12".

## PERMA TUFF® BASE AND POLY CAP

A durable hard shell base combined with a poly cap. Designed for high traffic applications. Available for PermaCast® round shafts 8"-12".

## BEVELED CAP AND BASE

Designed to deliver a popular, more contemporary appearance, beveled caps and bases are available for PermaCast® Square shafts 6-12".



## DIMENSIONS OF ATTIC BASE FOR ROUND AND SQUARE COLUMNS

COLUMN SIZE	ROUND ATTIC				COLUMN SIZE	SQUARE ATTIC			
	C	DD	EE	R		C	DD	EE	R
6"	8 <sup>3</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>8</sub> "	2 <sup>3</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>8</sub> "	6"	8 <sup>7</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>4</sub> "
8"	10 <sup>1</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>4</sub> "	5 <sup>1</sup> / <sub>8</sub> "	8"	11"	1 <sup>7</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>4</sub> "	5 <sup>1</sup> / <sub>8</sub> "
10"	13"	2 <sup>1</sup> / <sub>2</sub> "	3 <sup>7</sup> / <sub>8</sub> "	6 <sup>1</sup> / <sub>8</sub> "	10"	13 <sup>3</sup> / <sub>8</sub> "	2 <sup>3</sup> / <sub>4</sub> "	4"	6 <sup>3</sup> / <sub>8</sub> "
12"	16 <sup>1</sup> / <sub>8</sub> "	3"	4 <sup>1</sup> / <sub>2</sub> "	7 <sup>1</sup> / <sub>2</sub> "	12"	17"	2 <sup>3</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>2</sub> "	7 <sup>1</sup> / <sub>4</sub> "
14"	19 <sup>1</sup> / <sub>4</sub> "	3 <sup>3</sup> / <sub>8</sub> "	5 <sup>3</sup> / <sub>8</sub> "	8 <sup>3</sup> / <sub>8</sub> "	14"	N/A	N/A	N/A	N/A
16"	21 <sup>1</sup> / <sub>4</sub> "	4"	6 <sup>1</sup> / <sub>2</sub> "	10 <sup>1</sup> / <sub>2</sub> "	16"	22 <sup>1</sup> / <sub>4</sub> "	4"	6 <sup>3</sup> / <sub>8</sub> "	10 <sup>3</sup> / <sub>8</sub> "
18"	25"	4 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>4</sub> "	11 <sup>3</sup> / <sub>8</sub> "	18"	N/A	N/A	N/A	N/A
20"	27 <sup>1</sup> / <sub>16</sub> "	4 <sup>7</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>4</sub> "	13 <sup>3</sup> / <sub>8</sub> "	20"	N/A	N/A	N/A	N/A
22"	30 <sup>1</sup> / <sub>4</sub> "	5 <sup>3</sup> / <sub>8</sub> "	9 <sup>1</sup> / <sub>4</sub> "	14 <sup>3</sup> / <sub>8</sub> "	22"	N/A	N/A	N/A	N/A
24"	33 <sup>1</sup> / <sub>2</sub> "	6"	10 <sup>1</sup> / <sub>4</sub> "	16 <sup>1</sup> / <sub>4</sub> "	24"	N/A	N/A	N/A	N/A
28"	38"	6 <sup>3</sup> / <sub>4</sub> "	11 <sup>3</sup> / <sub>8</sub> "	18 <sup>3</sup> / <sub>8</sub> "	28"	N/A	N/A	N/A	N/A
30"	41 <sup>1</sup> / <sub>4</sub> "	6 <sup>1</sup> / <sub>2</sub> "	11 <sup>1</sup> / <sub>4</sub> "	17 <sup>1</sup> / <sub>4</sub> "	30"	N/A	N/A	N/A	N/A

## CROWN CAP\* FOR SQUARE COLUMN DIMENSIONS

Column Size	K	J	L
6"	1 <sup>9</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>16</sub> "	11 1/4"
8"	1 <sup>9</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>16</sub> "	13 1/4"
10"	1 <sup>9</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>16</sub> "	15 1/4"
12"	1 <sup>9</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>16</sub> "	17 1/4"

\*Made from Polyurethane

## COLONIAL ROUND CAP AND BASE DIMENSIONS\*

Col. Size	C	D	E	F	J	K	L	R
6"	7 <sup>1</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1/4"	1"	1 <sup>1</sup> / <sub>4</sub> "	7"	2 7/8"
8"	9 <sup>1</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>5</sup> / <sub>16</sub> "	1/4"	1 <sup>1</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>8</sub> "	9"	3"
10"	11 <sup>1</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1/4"	1 <sup>1</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>8</sub> "	10 <sup>9</sup> / <sub>16</sub> "	3"
12"	13 <sup>1</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1/4"	1 <sup>1</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>8</sub> "	13 <sup>1</sup> / <sub>8</sub> "	3"

\*Low profile option.

## COLONIAL SQUARE CAP AND BASE DIMENSIONS\*

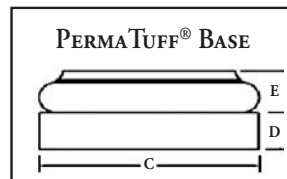
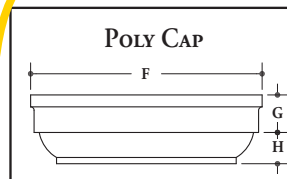
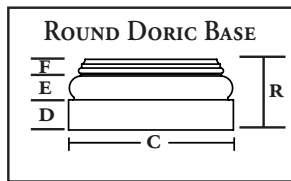
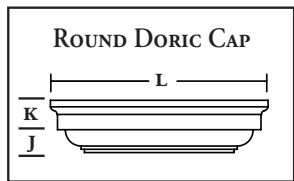
Col. Size	C	D	E	F	J	K	L	R
6"	8 <sup>1</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>16</sub> "	3/16"	1"	1 <sup>3</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>4</sub> "	2 <sup>7</sup> / <sub>8</sub> "
8"	10 <sup>3</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>16</sub> "	7/16"	1 <sup>5</sup> / <sub>16</sub> "	1"	9 <sup>15</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>4</sub> "
10"	12 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1 <sup>5</sup> / <sub>16</sub> "	3/16"	1"	1 <sup>3</sup> / <sub>8</sub> "	12 <sup>5</sup> / <sub>8</sub> "	2 <sup>3</sup> / <sub>4</sub> "
12"	14 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1"	1/2"	1"	1 <sup>3</sup> / <sub>8</sub> "	14 <sup>5</sup> / <sub>8</sub> "	2 <sup>3</sup> / <sub>4</sub> "

\*Low profile option.

## BEVELED CAP & BASE SET\*

Size	A	B	C
6"	6"	8-1/4"	3-1/2"
8"	8"	10-1/4"	3-1/2"
10"	10"	12-1/4"	5-1/2"
12"	12"	14-1/4"	5-1/2"

\*For Square PermaCast® Columns  
See Installation Kit on page 16.



DORIC CAP AND BASE DIMENSIONS								
Column Size	C	D	E	F	J	K	L	R
8"	10 <sup>3</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>3</sup> / <sub>8</sub> "	7 <sup>8</sup> / <sub>8</sub> "	1"	1 <sup>3</sup> / <sub>8</sub> "	10"	4 <sup>7</sup> / <sub>16</sub> "
10"	12 <sup>15</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>16</sub> "	1 <sup>11</sup> / <sub>16</sub> "	12 <sup>1</sup> / <sub>2</sub> "	5 <sup>9</sup> / <sub>16</sub> "
12"	15 <sup>1</sup> / <sub>2</sub> "	2 <sup>7</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>2</sub> "	1 <sup>3</sup> / <sub>8</sub> "	1 <sup>9</sup> / <sub>16</sub> "	2"	15"	6 <sup>11</sup> / <sub>16</sub> "
14"	18 <sup>1</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>16</sub> "	2 <sup>7</sup> / <sub>8</sub> "	1 <sup>9</sup> / <sub>16</sub> "	1 <sup>13</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>8</sub> "	17 <sup>1</sup> / <sub>2</sub> "	7 <sup>13</sup> / <sub>16</sub> "
16"	20 <sup>7</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>4</sub> "	3"	2 <sup>1</sup> / <sub>4</sub> "	1 <sup>9</sup> / <sub>16</sub> "	2 <sup>1</sup> / <sub>4</sub> "	20 <sup>1</sup> / <sub>2</sub> "	9"
18"	23 <sup>1</sup> / <sub>4</sub> "	4"	3 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	1 <sup>3</sup> / <sub>4</sub> "	3"	23 <sup>1</sup> / <sub>8</sub> "	10"

TUSCAN PERMA TUFF® BASE AND POLY CAP DIMENSIONS						
Col. Size	C	D	E	F	G	H
8"	10-1/4"	1-7/8"	2-3/8"	9-1/4"	1-1/2"	1-1/4"
10"	12-7/8"	2-3/8"	2-7/8"	11-1/4"	1-3/4"	1-1/4"
12"	15-1/4"	2-3/4"	3-1/4"	13-3/4"	2-1/4"	1-3/4"

\*Not Available Split

### DECORATIVE CAPITAL DIMENSIONS FOR ROUND TAPERED AND SQUARE COLUMNS (IN INCHES)

Size of Columns (Diameter at bottom of shaft)	6"		8"		10"		12"		14"		16"		18"		20"		22"		24"		28"		30"		
	ROUND	SQUARE	ROUND	SQUARE	ROUND	SQUARE	ROUND	SQUARE	ROUND	SQUARE	ROUND	SQUARE	ROUND	SQUARE	ROUND	SQUARE	ROUND	SQUARE	ROUND	SQUARE	ROUND	SQUARE	ROUND	SQUARE	
Roman Ionic	Height	3 <sup>3</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>8</sub> "	4"	4 <sup>7</sup> / <sub>8</sub> "	4 <sup>3</sup> / <sub>8</sub> "	6 <sup>1</sup> / <sub>4</sub> "	5 <sup>3</sup> / <sub>8</sub> "	6 <sup>3</sup> / <sub>4</sub> "	8 <sup>7</sup> / <sub>8</sub> "	9 1/2"	10 <sup>3</sup> / <sub>16</sub> "	9 <sup>9</sup> / <sub>16</sub> "	9 <sup>7</sup> / <sub>16</sub> "										
	Abacus	10 <sup>1</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>8</sub> "	11 <sup>11</sup> / <sub>16</sub> "	10 <sup>3</sup> / <sub>4</sub> "	14 <sup>3</sup> / <sub>4</sub> "	12 <sup>1</sup> / <sub>2</sub> "	16 <sup>7</sup> / <sub>8</sub> "	17 <sup>1</sup> / <sub>8</sub> "	19 <sup>13</sup> / <sub>16</sub> "	26"	25 <sup>1</sup> / <sub>4</sub> "	25 <sup>3</sup> / <sub>16</sub> "	26 <sup>6</sup> / <sub>8</sub> "											
	Projection	N/A	3 <sup>1</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>8</sub> "	3"	4 <sup>1</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>4</sub> "	5"	6 <sup>1</sup> / <sub>4</sub> "	7 <sup>1</sup> / <sub>8</sub> "	8"	8 <sup>1</sup> / <sub>2</sub> "	11 <sup>1</sup> / <sub>4</sub> "	11 <sup>1</sup> / <sub>4</sub> "	10"	9 <sup>7</sup> / <sub>8</sub> "					N/A		N/A		
	O/S to O/S Inside Dia.*	12 <sup>1</sup> / <sub>8</sub> "	10 <sup>1</sup> / <sub>2</sub> "	13 <sup>15</sup> / <sub>16</sub> "	13 <sup>3</sup> / <sub>16</sub> "	17 <sup>1</sup> / <sub>4</sub> "	16 <sup>1</sup> / <sub>2</sub> "	23 <sup>1</sup> / <sub>8</sub> "	22 <sup>9</sup> / <sub>16</sub> "	24 <sup>3</sup> / <sub>8</sub> "	32 <sup>1</sup> / <sub>8</sub> "	31 <sup>3</sup> / <sub>4</sub> "	31 <sup>3</sup> / <sub>4</sub> "	33"	34"										
Greek Ionic	Height	5 <sup>1</sup> / <sub>2</sub> "	4 <sup>1</sup> / <sub>8</sub> "	6 <sup>1</sup> / <sub>4</sub> "	5 <sup>3</sup> / <sub>8</sub> "	6 <sup>3</sup> / <sub>4</sub> "	6 <sup>9</sup> / <sub>16</sub> "	9 <sup>1</sup> / <sub>4</sub> "	6 <sup>3</sup> / <sub>4</sub> "	10 <sup>3</sup> / <sub>8</sub> "	11"	10 <sup>3</sup> / <sub>16</sub> "	11 <sup>3</sup> / <sub>8</sub> "	13 <sup>7</sup> / <sub>8</sub> "	13 <sup>7</sup> / <sub>8</sub> "									19 <sup>1</sup> / <sub>4</sub> "	
	Abacus	11"	7 <sup>3</sup> / <sub>16</sub> "	12 <sup>2</sup> / <sub>8</sub> "	10 <sup>11</sup> / <sub>16</sub> "	16"	14 <sup>3</sup> / <sub>8</sub> "	17 <sup>3</sup> / <sub>4</sub> "	15 <sup>1</sup> / <sub>8</sub> "	22 <sup>3</sup> / <sub>16</sub> "	26 <sup>3</sup> / <sub>16</sub> "	22 <sup>3</sup> / <sub>16</sub> "	25 <sup>1</sup> / <sub>4</sub> "	29"	29"									42 <sup>1</sup> / <sub>2</sub> "	
	Projection	N/A	4 <sup>5</sup> / <sub>8</sub> "	3 <sup>5</sup> / <sub>8</sub> "	4 <sup>7</sup> / <sub>8</sub> "	5"	5 <sup>7</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>2</sub> "	7 <sup>1</sup> / <sub>4</sub> "	6 <sup>1</sup> / <sub>2</sub> "	10 <sup>1</sup> / <sub>4</sub> "	10 <sup>3</sup> / <sub>4</sub> "	9 1/2"	11 <sup>1</sup> / <sub>4</sub> "	15 <sup>1</sup> / <sub>2</sub> "	15 1/2"					N/A		19 <sup>1</sup> / <sub>2</sub> "		
	O/S to O/S Inside Dia.*	14 <sup>1</sup> / <sub>2</sub> "	11 <sup>7</sup> / <sub>8</sub> "	17 <sup>9</sup> / <sub>16</sub> "	14 <sup>15</sup> / <sub>16</sub> "	20 <sup>7</sup> / <sub>8</sub> "	20 <sup>11</sup> / <sub>16</sub> "	26 <sup>3</sup> / <sub>8</sub> "	20 <sup>11</sup> / <sub>16</sub> "	29 <sup>1</sup> / <sub>4</sub> "	36 <sup>3</sup> / <sub>16</sub> "	29 <sup>9</sup> / <sub>8</sub> "	31 <sup>3</sup> / <sub>4</sub> "	43 <sup>1</sup> / <sub>2</sub> "	43 <sup>1</sup> / <sub>2</sub> "									60 <sup>3</sup> / <sub>4</sub> "	
Temple of the Winds	Height	8 <sup>7</sup> / <sub>16</sub> "	8"	11 <sup>1</sup> / <sub>2</sub> "	10 <sup>5</sup> / <sub>16</sub> "	13 <sup>7</sup> / <sub>8</sub> "	11 <sup>5</sup> / <sub>8</sub> "	20 <sup>1</sup> / <sub>2</sub> "	16 <sup>1</sup> / <sub>4</sub> "	18 <sup>1</sup> / <sub>4</sub> "	21 <sup>13</sup> / <sub>16</sub> "	21 <sup>7</sup> / <sub>8</sub> "	23"	24 <sup>1</sup> / <sub>8</sub> "	27 <sup>7</sup> / <sub>8</sub> "										
	Abacus	12 <sup>1</sup> / <sub>8</sub> "	11 <sup>7</sup> / <sub>8</sub> "	15 <sup>1</sup> / <sub>2</sub> "	13 <sup>7</sup> / <sub>16</sub> "	21 <sup>3</sup> / <sub>16</sub> "	16 <sup>9</sup> / <sub>16</sub> "	25 <sup>3</sup> / <sub>4</sub> "	23 <sup>1</sup> / <sub>4</sub> "	26"	29 <sup>15</sup> / <sub>16</sub> "	28 <sup>3</sup> / <sub>8</sub> "	34 <sup>3</sup> / <sub>4</sub> "	35 <sup>1</sup> / <sub>4</sub> "	37 <sup>1</sup> / <sub>4</sub> "										
	Projection	4 <sup>5</sup> / <sub>8</sub> "	5 <sup>1</sup> / <sub>2</sub> "	5 <sup>5</sup> / <sub>8</sub> "	6"	8"	7"	9 <sup>1</sup> / <sub>8</sub> "	10 <sup>7</sup> / <sub>8</sub> "	11 <sup>5</sup> / <sub>8</sub> "	9 <sup>3</sup> / <sub>4</sub> "	12"	15 <sup>1</sup> / <sub>2</sub> "	14 <sup>7</sup> / <sub>8</sub> "	16 <sup>1</sup> / <sub>8</sub> "										
	O/S to O/S Inside Dia.*	12 <sup>1</sup> / <sub>8</sub> "	11 <sup>7</sup> / <sub>8</sub> "	15 <sup>1</sup> / <sub>2</sub> "	13 <sup>7</sup> / <sub>16</sub> "	21 <sup>3</sup> / <sub>16</sub> "	16 <sup>9</sup> / <sub>16</sub> "	25 <sup>3</sup> / <sub>4</sub> "	23 <sup>3</sup> / <sub>8</sub> "	26"	29 <sup>13</sup> / <sub>16</sub> "	28 <sup>3</sup> / <sub>8</sub> "	34 <sup>3</sup> / <sub>4</sub> "	35 <sup>1</sup> / <sub>4</sub> "	37 <sup>1</sup> / <sub>4</sub> "										N/A
Roman Corinthian	Height	10 <sup>3</sup> / <sub>4</sub> "	8 <sup>1</sup> / <sub>16</sub> "	13 <sup>1</sup> / <sub>16</sub> "	11 <sup>15</sup> / <sub>16</sub> "	17 <sup>3</sup> / <sub>4</sub> "	14 <sup>5</sup> / <sub>8</sub> "	20 <sup>1</sup> / <sub>8</sub> "	17 <sup>3</sup> / <sub>8</sub> "	22 <sup>1</sup> / <sub>16</sub> "	26 <sup>1</sup> / <sub>2</sub> "	26 <sup>1</sup> / <sub>16</sub> "	28 <sup>7</sup> / <sub>16</sub> "	31 <sup>7</sup> / <sub>8</sub> "	34 <sup>1</sup> / <sub>4</sub> "										
	Abacus	13 <sup>1</sup> / <sub>4</sub> "	12 <sup>1</sup> / <sub>16</sub> "	18"	14 <sup>5</sup> / <sub>8</sub> "	22 <sup>3</sup> / <sub>8</sub> "	18 <sup>7</sup> / <sub>8</sub> "	26 <sup>1</sup> / <sub>4</sub> "	22 <sup>3</sup> / <sub>16</sub> "	32 <sup>3</sup> / <sub>8</sub> "	37 <sup>1</sup> / <sub>2</sub> "	38 <sup>3</sup> / <sub>8</sub> "	41 <sup>3</sup> / <sub>8</sub> "	40 <sup>1</sup> / <sub>4</sub> "	45 <sup>1</sup> / <sub>4</sub> "										
	Projection	4 <sup>1</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>4</sub> "	6"	6 <sup>1</sup> / <sub>4</sub> "	7 <sup>1</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>4</sub> "	8 <sup>7</sup> / <sub>8</sub> "	8 <sup>7</sup> / <sub>8</sub> "	14 <sup>1</sup> / <sub>4</sub> "	13 <sup>3</sup> / <sub>8</sub> "	17 <sup>1</sup> / <sub>2</sub> "	16 <sup>1</sup> / <sub>4</sub> "	16"	17 <sup>1</sup> / <sub>2</sub> "										
	O/S to O/S Inside Dia.*	13 <sup>1</sup> / <sub>4</sub> "	12 <sup>1</sup> / <sub>16</sub> "	18"	14 <sup>5</sup> / <sub>8</sub> "	22 <sup>3</sup> / <sub>8</sub> "	18 <sup>7</sup> / <sub>8</sub> "	26 <sup>1</sup> / <sub>4</sub> "	22 <sup>3</sup> / <sub>16</sub> "	32 <sup>3</sup> / <sub>8</sub> "	37 <sup>1</sup> / <sub>2</sub> "	38 <sup>7</sup> / <sub>8</sub> "	41 <sup>3</sup> / <sub>8</sub> "	40 <sup>1</sup> / <sub>4</sub> "	45 <sup>1</sup> / <sub>4</sub> "										N/A
Scamozzi	Height	3 <sup>1</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>8</sub> "	5"	4 <sup>1</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>16</sub> "	5 <sup>1</sup> / <sub>16</sub> "	6 <sup>1</sup> / <sub>2</sub> "	5 <sup>3</sup> / <sub>4</sub> "	7 <sup>1</sup> / <sub>16</sub> "	8 <sup>5</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>4</sub> "	8 <sup>5</sup> / <sub>8</sub> "	10 <sup>3</sup> / <sub>4</sub> "	11 <sup>1</sup> / <sub>2</sub> "	12 <sup>1</sup> / <sub>4</sub> "									
	Abacus	11 <sup>1</sup> / <sub>4</sub> "	9 <sup>7</sup> / <sub>8</sub> "	16 <sup>3</sup> / <sub>16</sub> "	14 <sup>1</sup> / <sub>4</sub> "	17 <sup>7</sup> / <sub>8</sub> "	16 <sup>3</sup> / <sub>8</sub> "	20 <sup>7</sup> / <sub>8</sub> "	18 <sup>1</sup> / <sub>4</sub> "	23 <sup>3</sup> / <sub>4</sub> "	26"	28 <sup>3</sup> / <sub>8</sub> "	28 <sup>1</sup> / <sub>2</sub> "	32"	36"	38 <sup>1</sup> / <sub>4</sub> "									
	Projection	3 <sup>3</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>8</sub> "	5 <sup>1</sup> / <sub>8</sub> "	5 <sup>3</sup> / <sub>8</sub> "	5 <sup>1</sup> / <sub>8</sub> "	6"	5 <sup>1</sup> / <sub>4</sub> "	6 <sup>3</sup> / <sub>8</sub> "	8 <sup>3</sup> / <sub>4</sub> "	5 <sup>1</sup> / <sub>4</sub> "	10 <sup>1</sup> / <sub>4</sub> "	10 <sup>1</sup> / <sub>4</sub> "	10 <sup>1</sup> / <sub>8</sub> "	12 <sup>1</sup> / <sub>2</sub> "	13 <sup>3</sup> / <sub>4</sub> "									
	O/S to O/S Inside Dia.*	11 <sup>3</sup> / <sub>8</sub> "	10"	16 <sup>3</sup> / <sub>16</sub> "	14 <sup>1</sup> / <sub>4</sub> "	18 <sup>1</sup> / <sub>16</sub> "	16 <sup>3</sup> / <sub>8</sub> "	20 <sup>7</sup> / <sub>8</sub> "	18 <sup>3</sup> / <sub>8</sub> "	23 <sup>3</sup> / <sub>4</sub> "	26"	28 <sup>3</sup> / <sub>8</sub> "	28 <sup>3</sup> / <sub>8</sub> "	32"	36"	38 <sup>1</sup> / <sub>2</sub> "	46 <sup>1</sup> / <sub>4</sub> "								

\*Inside Diameter

• See page 9 for images.

NOTE: Installation Kit available.

Splitting Options



## Painting Instructions

Painting instructions for round and square PermaCast® columns:

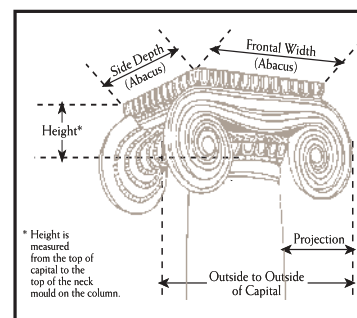
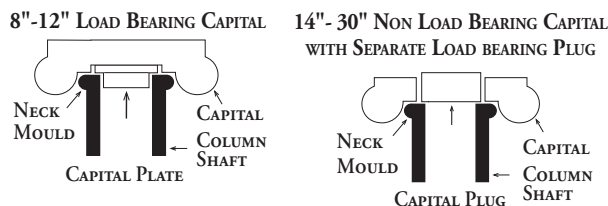
- Rinse and allow to dry completely.
- Prime with high quality exterior latex bonding primer or use an oil-based bonding primer in accordance with paint manufacturer's instructions. A light coat of primer should be applied and allowed to cure fully.
- Paint evenly with several light coats over column with a high quality exterior latex or oil-based paint in accordance with paint manufacturer's instructions.
- Do not paint PermaCast® columns using dark colors (dark colors are considered any color that falls within the L value of 56 to 0). L is a measure of lightness of an object and ranges from 0 (black) to 100 (white).

## Tips

- ✓ When ordering a decorative capital order the appropriate base for the column.
- ✓ Decorative capitals for square PermaCast® slide over the shaft and do not use a plug. These decorative capitals will not lengthen or shorten the height of the column.
- ✓ When installing a decorative capital on fluted, recessed panel, or square columns, the capital slides over the shaft. The taller capitals will cover the flutes and require additional caulking to finish.
- ✓ Verify exact opening measurement prior to ordering column length.
- ✓ When installing a PermaCast® column, verify concentric loading of column. 100% of bottom must contact substrate and 75% of top must contact soffit.
- ✓ When attaching hand rails or corner iron to PermaCast® columns, holes must be pre-drilled before applying screws.
- ✓ When ordering panel moulding for square PermaCast® columns, make sure to order enough for four sides of the column.
- ✓ Split columns are left partially intact. Cut with masonry or carbide tip blade.
- ✓ All custom split columns, caps, and bases are nonrefundable.

### DECORATIVE CAPITALS FOR ROUND TAPERED PERMACAST® COLUMNS

Adding a load bearing decorative capital to a round PermaCast® column will lengthen or shorten the overall height of the column depending on the height of the capital. Subtract the "T" dimension (from the column dimensions chart) and add the height of the decorative capital +/- 1/4" for overall column height.



NOTE: Decorative Capitals are not designed to fit non-tapered columns.

### DECORATIVE CAPITALS FOR SQUARE PERMACAST® COLUMNS

Adding an decorative capital to a square PermaCast® column DOES NOT change the length of the column shaft. The decorative capital simply slides over the shaft. Neck moulding can be applied or not.



**NOTE: Decorative Capital Installation Kits Available**







# Porch Repair 1324 Grainger Ave

By Troy Wilson | February 06, 2020

POWERED BY





Both half columns have rot damage and are to be replaced. New columns to be Tuscan style, similar to the existing full columns

Two full columns are not damaged but profile is not available. Owner intends to replace these columns at a later date due to cost.

1



Full Columns have Tuscan Capitals

Half Columns have Ionic Capitals

2



3



4



Half columns have rot damage at bases