#### STAFF REPORT TO THE

#### FLORENCE COUNTY BOARD OF ZONING APPEALS TUESDAY, OCTOBER 17, 2023 BZA#2023-03

**SUBJECT:** A variance requested by John L. Johnson from requirements

of the Florence County Code of Ordinances, Chapter 30 - ZONING ORDINANCE ARTICLE III. – CONDITIONAL USE REGULATIONS, Sec. 30-111(7) – Development standards for unzoned areas, for property located at 3201 E Linda Drive, Florence, SC 29506, as shown on Florence

County Tax Map No. 90159, Block 01, Parcel 001.

**LOCATION:** 3201 E Linda Drive, Florence, SC

TAX MAP NUMBER: 90159, Block 01, Parcel 001

**COUNCIL DISTRICT(S):** 7; County Council

**OWNER OF RECORD:** Beverly Robinson

**APPLICANT:** John L. Johnson

**LAND AREA:** Approximately 0.37 acres

**VARIANCE REQUESTED:** The variance requested would allow the property owner to

exceed the minimum setback requirements established by

the Florence County Code of Ordinances.

#### **STAFF ANALYSIS:**

#### Existing Land Use and Zoning:

The subject property is unzoned and with current use residential.

#### **Surrounding Land Use and Zoning:**

North: Residential/Unzoned
South: Residential/Unzoned
West: Residential/Unzoned
East: Residential/Unzoned

Background:

Sec. 30-111(7) Setbacks

Proposed Use	Front	Rear	Side
Commercial	25'	20'	10'
Industrial/warehousing/storage	25'	50'	50'
Office/institutional	25'	20'	20'
All other uses	25'	5'	5'

The request is for a variance that would allow the applicant to exceed the minimum setback requirements established by the Florence County Code of Ordinances. The applicant was initially issued a building permit based on plans that showed the addition positioned in a manner that met the required setback limits. Upon inspection from the Florence County Building Department, it was determined that the applicant built outside of the approved plans and exceeded the minimum setback requirements. Per the Florence County Code of Ordinances, setbacks of residential uses within an unzoned area must be no less than five feet from the rear property line. The property owner is requesting a variance that would allow them to exceed the minimum setback requirements by approximately three feet. If the variance is granted, it would allow the property owner to continue construction of the addition with approximately 1.8 feet separating the structure from the rear property line.

#### **Access and Circulation:**

The property is currently accessed by way of E. Linda Dr and N. Williamson Rd, Florence, SC.

#### Sec. 30-293. – Board of zoning appeals (c)

Powers of board of appeals; variances; special exceptions; remand; stay; hearing; decisions and orders. The board of appeals has the following powers:

- (1) To hear and decide appeals where it is alleged there is error in an order, requirement, decision, or determination made by an administrative official in the enforcement of the zoning ordinance;
- (2) To hear and decide appeals for variance from the requirements of the zoning ordinance when strict application of the provisions of the ordinance would result in unnecessary hardship. A variance may be granted in an individual case of unnecessary hardship if the board makes and explains in writing the following findings:
  - a. There are extraordinary and exceptional conditions pertaining to the particular piece of property;
  - b. These conditions do not generally apply to other property in the vicinity;
  - c. Because of these conditions, the application of the ordinance to the particular piece of property would effectively prohibit or unreasonably restrict the utilization of the property; and
  - d. The authorization of a variance will not be of substantial detriment to adjacent property or to the public good, and the character of the district will not be harmed by the granting of the variance.

#### **VARIANCE REQUEST:**

1. Applicant hereby appeals to the Board of Zoning Appeals for a variance from the strict application to the property described in the Notice of Appeal [Form 1] of the following provisions of the Zoning Ordinance:

#### a. Applicant's Response:

#### Setback requirements 5'- minimum from property line

so that a zoning permit may be issued to allow use of the property in a manner shown on the attached plot plan, described as follows:

#### b. Applicant's Response:

# Request variance for existing wall location. See plat – point A 3.2' variance requested

for which a permit has been denied by a zoning official on the grounds that the proposal would be in violation of the cited section(s) of the Zoning Ordinance.

- 2. The application of the ordinance will result in unnecessary hardship, and the standards for a variance set by state law and the ordinance are met by the following facts.
  - a. There are extraordinary and exceptional conditions pertaining to the particular piece of property as follows:

#### **Applicant's response:**

The reason for the extension is to care for my aunt. She has dementia. She is need of daily care and somewhere to live. She has no kids to car for her.

b. These conditions do not generally apply to other property in the vicinity as shown by:

#### **Applicant's response:**

N/A

c. Because of these conditions, the application of the ordinance to the particular piece of property would effectively prohibit or unreasonably restrict the utilization of the property as follows:

#### **Applicant's response:**

Desired size of bedroom

d. The authorization of the variance will not be of substantial detriment to adjacent property or to the public good, and the character of the district will not be harmed by the granting of the variance for the following reasons:

#### **Applicant's response:**

Adjacent property owners agrees with this addition

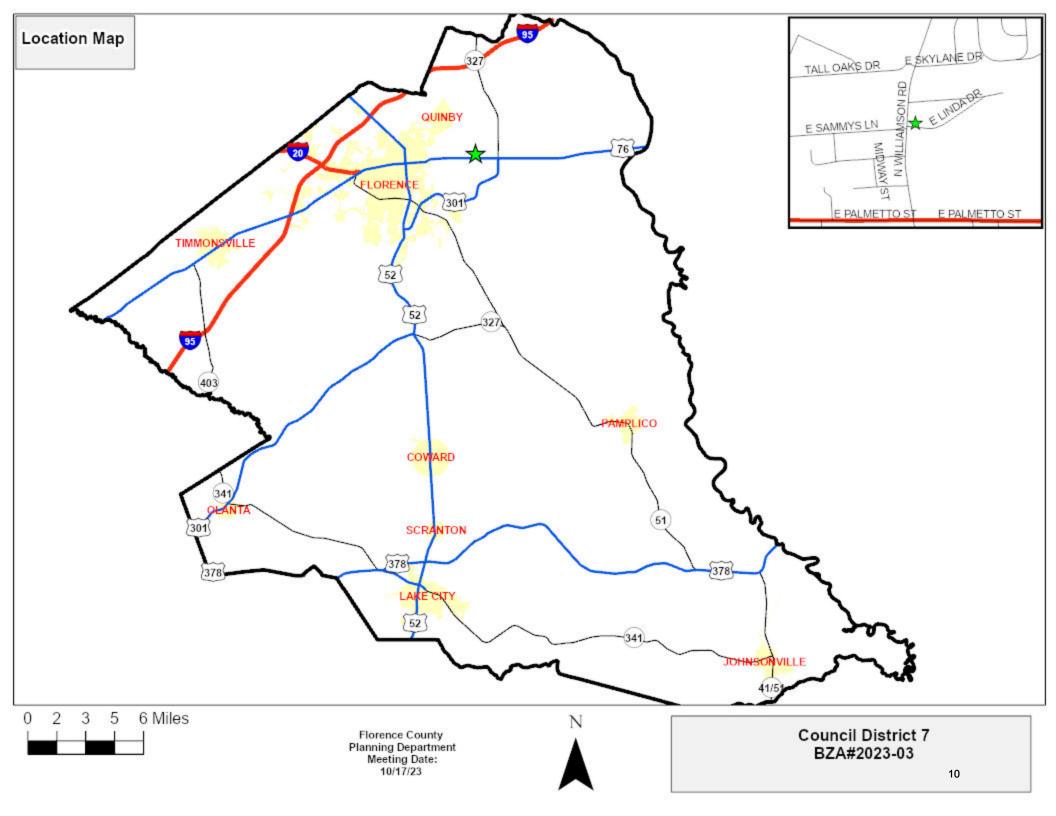
3. The following documents are submitted in support of this application:

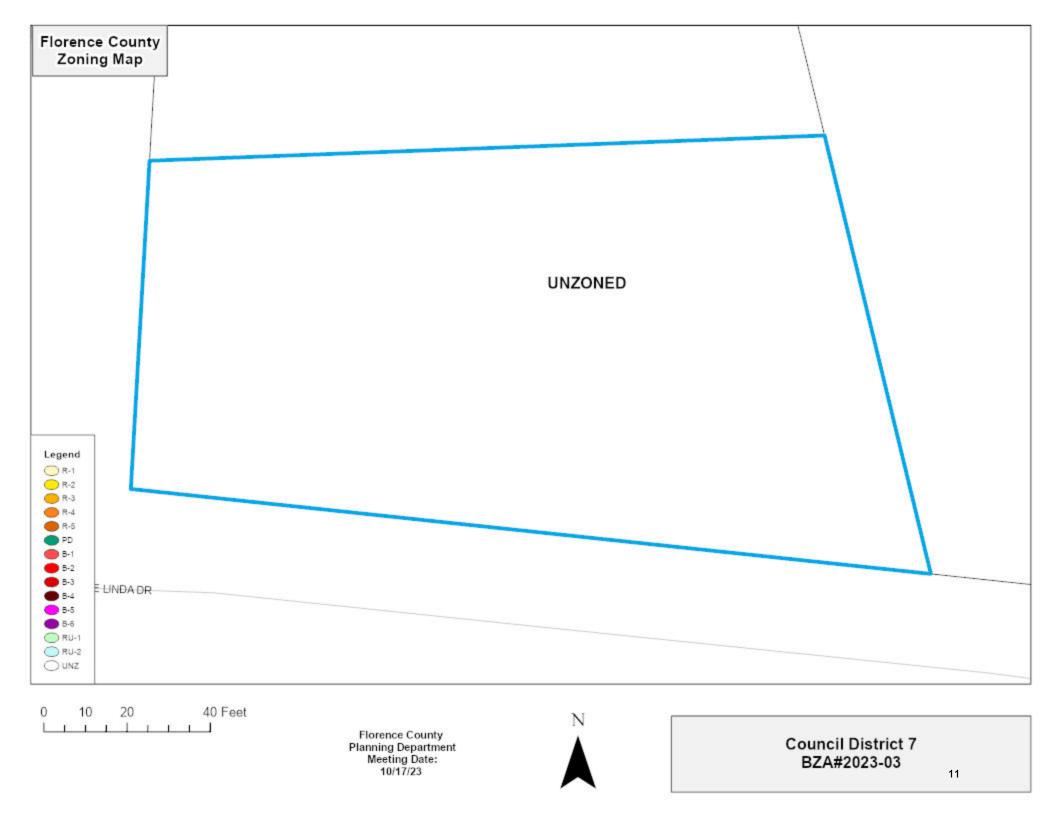
#### **Applicant's response:**

1) Plat showing proposed structure location 2) narrative detailing chain of events, impacts and consequences & building permit application.

# ATTACHMENTS: 1. Location Map

- 2. Zoning Map
- 3. Aerial Map
- 4. Plat





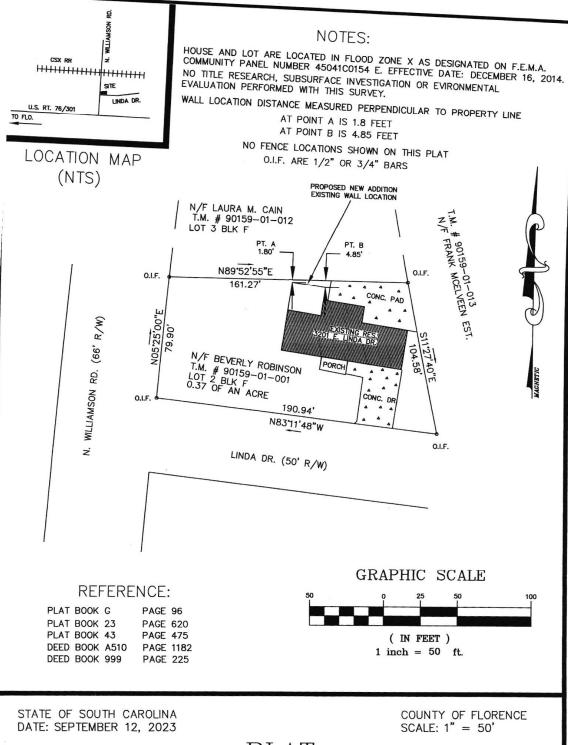


0 10 20 40 Feet

Florence County Planning Department Meeting Date: 10/17/23



Council District 7 BZA#2023-03



# PLAT

REQUESTING A VARIANCE FOR FLORENCE COUNTY SETBACK REQUIREMENTS FOR TAX MAP PARCEL NUMBER 90159-01-001 KNOWN AS LOT NUMBER 2 BLOCK F IN GLENDALE ACRES SUBDIVISION RECORDED IN PLAT BOOK G PAGE 96. THIS LOT IS LOCATED NORTH OF THE INTERSECTION OF NORTH WILLIAMSON ROAD AND LINDA DRIVE, IN FLORENCE COUNTY, S. C.

#### SURVEYED FOR

# BEVERLY ROBINSON

SURVEYED BY JOHN L. JOHNSON R.L.S. AND P.E. NO. 7220 3417 LAKE SHORE DRIVE FLORENCE, S.C. 29501

FILE NO. P-69-2023

I HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF THAT THE SURVEY SHOWN HEREON, WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS THE REQUIREMENTS FOR A CLASS "B" SURVEY AS SPECIFIED THEREIN; ALSO THERE ARE NO VISIBLE ENCROACHMENTS OR PROJECTIONS OTHER THAN SHOWN.

#### STAFF REPORT TO THE

#### FLORENCE COUNTY BOARD OF ZONING APPEALS TUESDAY, OCTOBER 17, 2023 BZA#2023-04

SUBJECT: A variance requested by Henry Keith Henderson from

requirements of the Florence County Code of Ordinances, Chapter 30 - ZONING ORDINANCE ARTICLE VII. - GENERAL AND ANCILLARY REGULATIONS, Sec. 30-246 - Accessory buildings and uses, for property located at 2812 Cypress Bend Road Florence, SC 29506, as shown on Florence

County Tax Map No. 02371, Block 02, Parcel 009.

**LOCATION:** 2812 Cypress Bend Road, Florence, SC

TAX MAP NUMBER: 02371, Block 02, Parcel 009

**COUNCIL DISTRICT(S):** 6; County Council

OWNER OF RECORD: Henry & Kathryn Henderson

**APPLICANT:** Henry Keith Henderson

**LAND AREA:** Approximately .96 acres

VARIANCE REQUESTED: The variance requested would allow the owner to place an

accessory structure in a prohibited location established by

the Florence County Code of Ordinances.

#### **STAFF ANALYSIS:**

#### Existing Land Use and Zoning:

The subject property is unzoned with current use residential.

#### Surrounding Land Use and Zoning:

North: Residential/ Unzoned
South: Residential/ Unzoned
West: Residential/ Unzoned
East: Recreational/ Unzoned

#### Background:

**Sec. 30- 246 Purpose.** To establish the general rules for the placement of accessory structures and uses to a principal use on a parcel. As a general rule, all accessory structures and uses shall only be placed in side or rear yards...

The request is for a variance that would allow the applicant to deviate from the standards for the location of accessory structures and uses as outlined in the Florence County Code of Ordinances. The applicant was originally issued a permit to place an accessory structure in the side yard. Upon inspection by the Florence County Building Division, it was noted that the structure had been placed

in a manner that extended past the front of the primary structure. Per the Florence County Code of Ordinances, the area in front of the primary structure is consider to be the front yard, in which accessory uses and structures are prohibited to be located. If the variance request is granted it would allow the applicant to continue construction of the structure in its current location.

#### **Access and Circulation:**

The property is currently accessed by way of Cypress Bend Road, Florence SC.

#### Sec. 30-293. – Board of zoning appeals (c)

Powers of board of appeals; variances; special exceptions; remand; stay; hearing; decisions and orders. The board of appeals has the following powers:

- (1) To hear and decide appeals where it is alleged there is error in an order, requirement, decision, or determination made by an administrative official in the enforcement of the zoning ordinance;
- (2) To hear and decide appeals for variance from the requirements of the zoning ordinance when strict application of the provisions of the ordinance would result in unnecessary hardship. A variance may be granted in an individual case of unnecessary hardship if the board makes and explains in writing the following findings:
  - a. There are extraordinary and exceptional conditions pertaining to the particular piece of property;
  - b. These conditions do not generally apply to other property in the vicinity;
  - c. Because of these conditions, the application of the ordinance to the particular piece of property would effectively prohibit or unreasonably restrict the utilization of the property; and
  - d. The authorization of a variance will not be of substantial detriment to adjacent property or to the public good, and the character of the district will not be harmed by the granting of the variance.

#### **VARIANCE REQUEST:**

1. Applicant hereby appeals to the Board of Zoning Appeals for a variance from the strict application to the property described in the Notice of Appeal [Form 1] of the following provisions of the Zoning Ordinance:

#### a. Applicant's Response:

+/- 10°

so that a zoning permit may be issued to allow use of the property in a manner shown on the attached plot plan, described as follows:

#### b. Applicant's Response:

Shifted pad away from floodway 10'

for which a permit has been denied by a zoning official on the grounds that the proposal would be in violation of the cited section(s) of the Zoning Ordinance.

- 2. The application of the ordinance will result in unnecessary hardship, and the standards for a variance set by state law and the ordinance are met by the following facts.
  - a. There are extraordinary and exceptional conditions pertaining to the particular piece of property as follows:

#### **Applicant's response:**

If picnic shelter were located in line with my residence, it would be undermined(eroded) and destroyed by future flood waters. I shifted it forward to keep it out of harm's way.

b. These conditions do not generally apply to other property in the vicinity as shown by:

#### **Applicant's response:**

Does not apply in this situation

c. Because of these conditions, the application of the ordinance to the particular piece of property would effectively prohibit or unreasonably restrict the utilization of the property as follows:

#### **Applicant's response:**

Future flood water avoidance.

d. The authorization of the variance will not be of substantial detriment to adjacent property or to the public good, and the character of the district will not be harmed by the granting of the variance for the following reasons:

#### **Applicant's response:**

You can't tell the difference in slab location from the street. My closet neighbors agree. Signatures page to follow

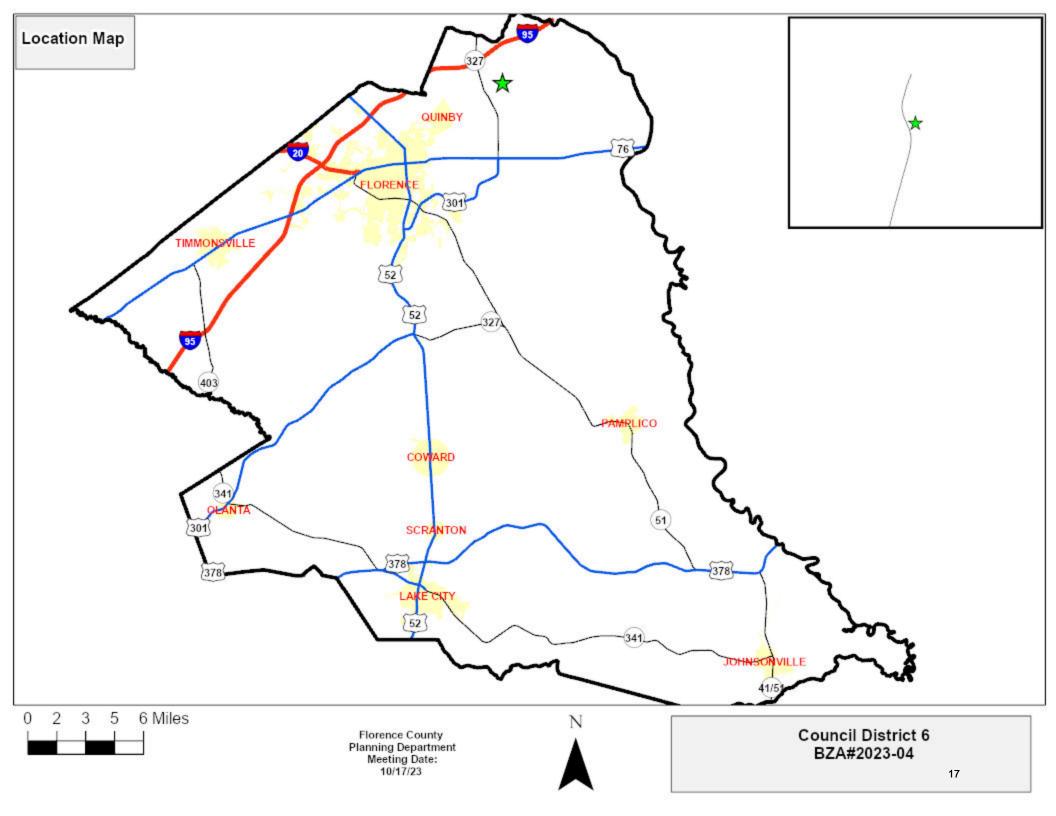
3. The following documents are submitted in support of this application:

#### **Applicant's response:**

Pictures: Black Creek Flood Map, Surveyors High Water Stake, Stake Relationship to Pad, Etc. These pictures support my reasoning for shifting pad away from Black Creek.

#### **ATTACHMENTS:**

- 1. Location Map
- 2. Zoning Map
- 3. Aerial Map
- 4. Applicant Submitted Photos





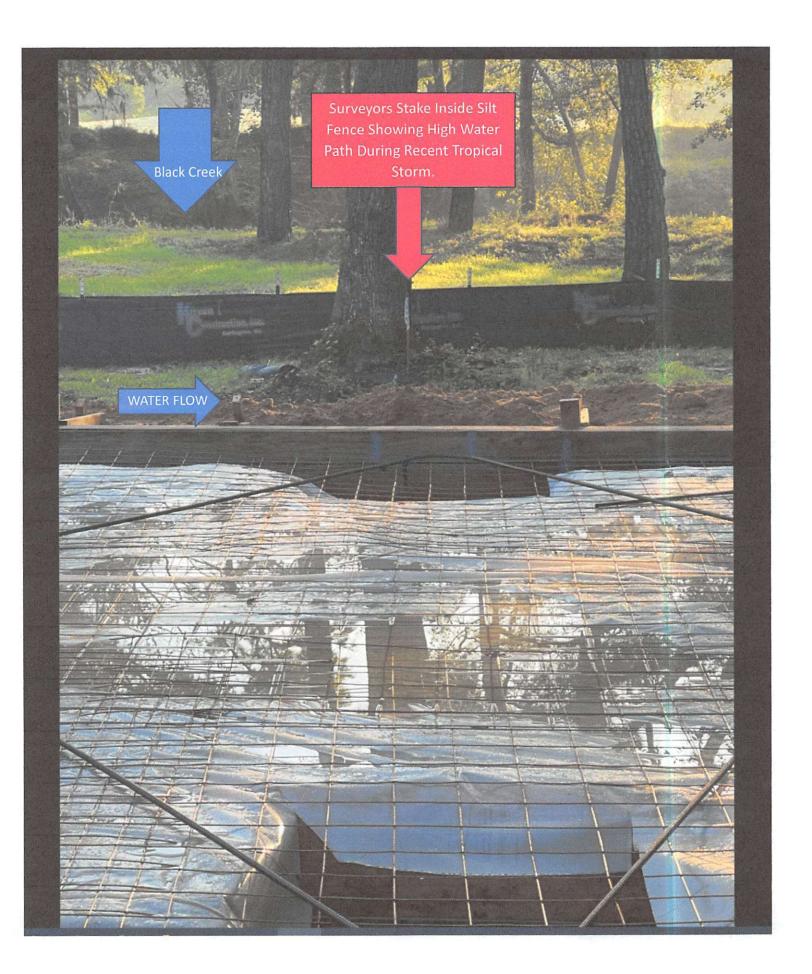


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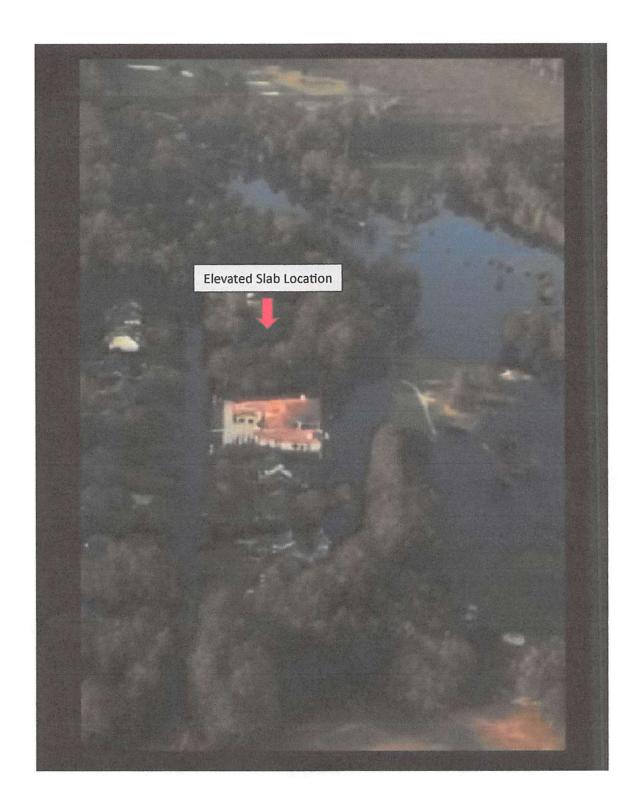
Florence County Planning Department Meeting Date: 10/17/23



Council District 6 BZA#2023-04







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Tue

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3

Sat

Sun

Mon

Tue

#### STAFF REPORT TO THE

#### FLORENCE COUNTY BOARD OF ZONING APPEALS TUESDAY, OCTOBER 17, 2023 BZA#2023-05

SUBJECT: A variance requested by Phillip Oakley Spears Beckham from

requirements of the Florence County Code of Ordinances, Chapter 30 - ZONING ORDINANCE ARTICLE VII. - GENERAL AND ANCILLARY REGULATIONS, Sec. 30-246(1) - Accessory buildings and uses, for property located at 3444 Lakeshore Dr. Florence, SC 29501, as shown on Florence County Tax Map No.

00101, Block 01, Parcel 180.

**LOCATION:** 3444 Lakeshore Drive, Florence, SC

TAX MAP NUMBER: 00101, Block 01, Parcel 180

**COUNCIL DISTRICT(S):** 9; County Council

OWNER OF RECORD: Spears Beckham

**APPLICANT:** Phillip Oakley & Spears Beckham

**LAND AREA:** Approximately .69 acres

**VARIANCE REQUESTED:** The variance requested is to allow an existing accessory structure

to remain in its current location, which extends into the rear

setback area.

#### **STAFF ANALYSIS:**

#### Existing Land Use and Zoning:

The subject property is unzoned with current use residential.

#### Surrounding Land Use and Zoning:

North: Residential, /Unzoned South: Residential/Unzoned West: Residential/Unzoned

East: Residential, Vacant/Unzoned

#### Background:

Sec. 30- 246(1) Accessory structures and uses to observe required setbacks. Unless specifically provided herein, all accessory uses and structures shall observe all required setbacks, yard, and other requirements applicable to the principal building or use for the district within which they are located.

The request is for a variance that would allow the applicant to exceed the minimum rear setback requirements for an accessory structure that was constructed without the required permits. Per the Florence County Code of Ordinances, accessory structures in an unzoned area must observe the same setback requirements established for the primary structure. In an unzoned area the required rear setback for primary

and accessory structures is five feet. Currently the building sits approximately two feet from the property line. If the variance is granted it would allow the structure to remain in its current location. All appropriate permits would still be required to be obtained if the variance is granted.

#### **Access and Circulation:**

The property is currently accessed by way of Lake Shore Drive, Florence, SC.

#### Sec. 30-293. – Board of zoning appeals (c)

Powers of board of appeals; variances; special exceptions; remand; stay; hearing; decisions and orders. The board of appeals has the following powers:

- (1) To hear and decide appeals where it is alleged there is error in an order, requirement, decision, or determination made by an administrative official in the enforcement of the zoning ordinance;
- (2) To hear and decide appeals for variance from the requirements of the zoning ordinance when strict application of the provisions of the ordinance would result in unnecessary hardship. A variance may be granted in an individual case of unnecessary hardship if the board makes and explains in writing the following findings:
  - a. There are extraordinary and exceptional conditions pertaining to the particular piece of property;
  - b. These conditions do not generally apply to other property in the vicinity;
  - c. Because of these conditions, the application of the ordinance to the particular piece of property would effectively prohibit or unreasonably restrict the utilization of the property; and
  - d. The authorization of a variance will not be of substantial detriment to adjacent property or to the public good, and the character of the district will not be harmed by the granting of the variance.

#### **VARIANCE REQUEST:**

1. Applicant hereby appeals to the Board of Zoning Appeals for a variance from the strict application to the property described in the Notice of Appeal [Form 1] of the following provisions of the Zoning Ordinance:

#### a. Applicant's Response:

5 feet from yard setback

so that a zoning permit may be issued to allow use of the property in a manner shown on the attached plot plan, described as follows:

#### b. Applicant's Response:

Unattached garage built 5 feet from property line in one spot, but the concrete was laid closer (2 feet) in another spot, so the big part of the building is 2 feet from the line when they erected it in one day.

for which a permit has been denied by a zoning official on the grounds that the proposal would be in violation of the cited section(s) of the Zoning Ordinance.

- 2. The application of the ordinance will result in unnecessary hardship, and the standards for a variance set by state law and the ordinance are met by the following facts.
  - a. There are extraordinary and exceptional conditions pertaining to the particular piece of property as follows:

#### Applicant's response:

The cost to tear up the concrete and move the building and repour more concrete is excessive (over 6800 to move the building and 3000 to pour concrete and remove old concrete)

b. These conditions do not generally apply to other property in the vicinity as shown by:

#### **Applicant's response:**

N/A

c. Because of these conditions, the application of the ordinance to the particular piece of property would effectively prohibit or unreasonably restrict the utilization of the property as follows:

#### **Applicant's response:**

N/A

d. The authorization of the variance will not be of substantial detriment to adjacent property or to the public good, and the character of the district will not be harmed by the granting of the variance for the following reasons:

#### **Applicant's response:**

We have erected a privacy fence where before there was only chain link along that part of the property only, so that the neighboring properties can't be affected (or really see) the bottom of the building

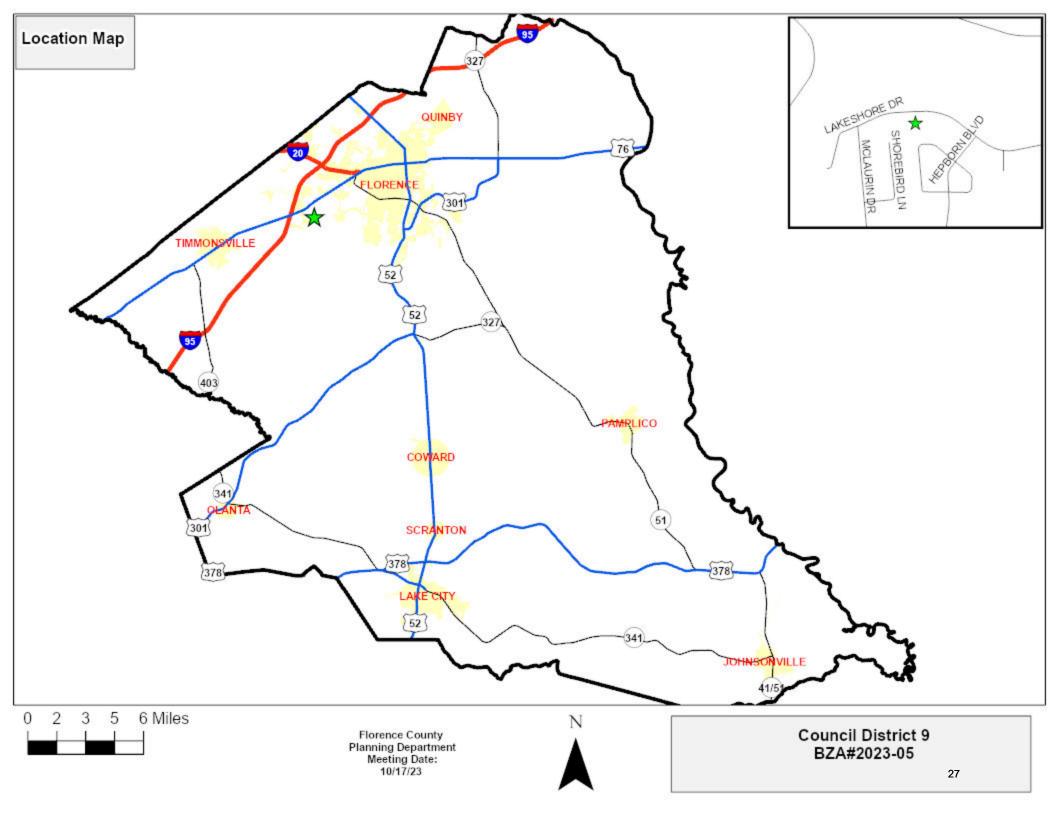
3. The following documents are submitted in support of this application:

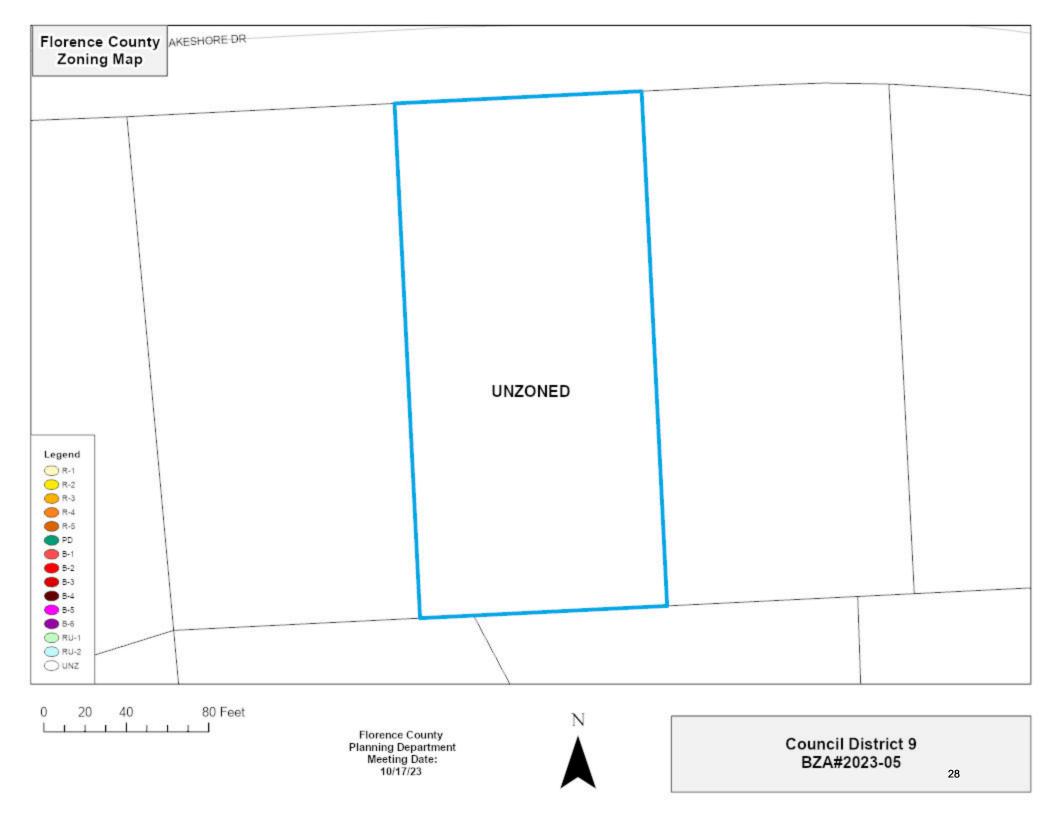
#### **Applicant's response:**

Plot plan, engineer drawings, photo

#### **ATTACHMENTS:**

- 1. Location Map
- 2. Zoning Map
- 3. Aerial Map
- 4. Plat
- 5. Engineer Drawings
- 6. Applicant Submitted Photo





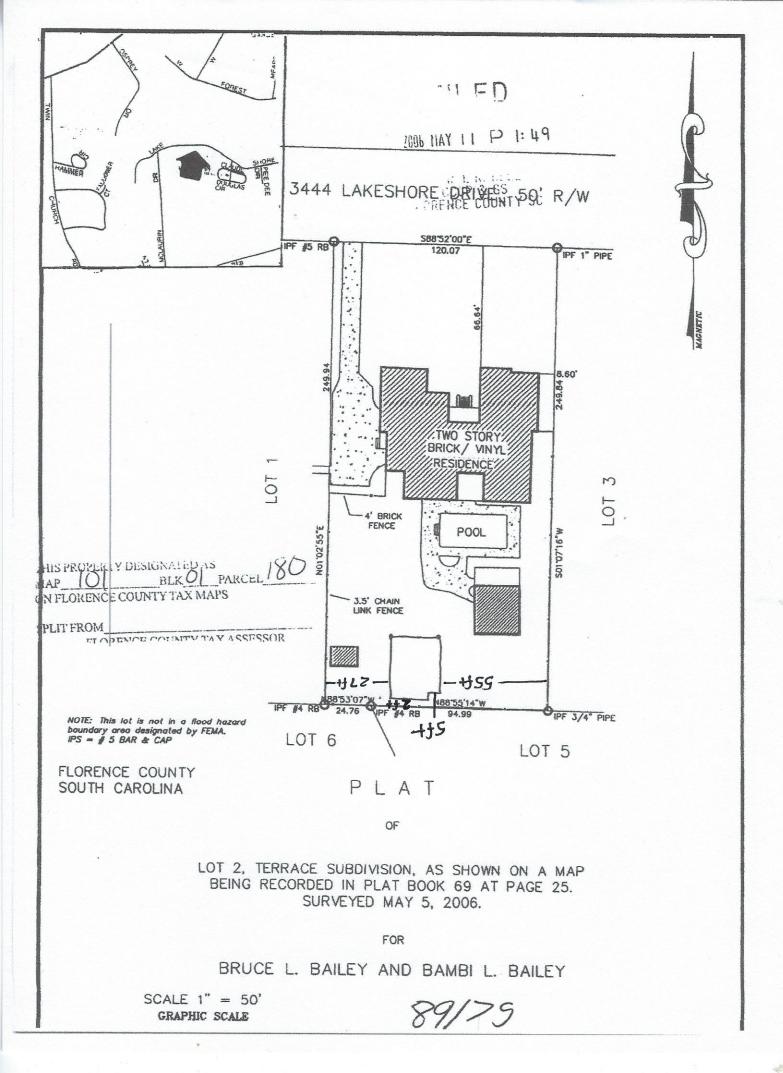


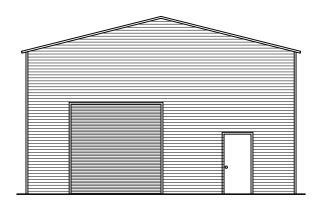
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Florence County
Planning Department
Meeting Date:
10/17/23



Council District 9 BZA#2023-05





# ENCLOSED GABLE END BUILDING MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / (UP TO) 145 M.P.H. WIND ZONE - 30 P.S.F. SNOW LOAD

### FOR:

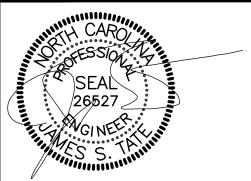
# N.C. CARPORTS & GARAGES 116 EAST MARKET STREET / ELKIN, NC. 28621

ISSUE DATE: FEBRUARY 01, 2023

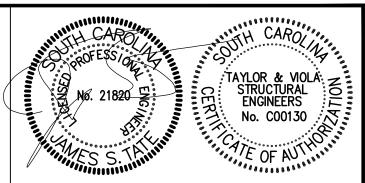




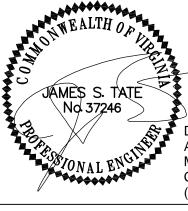




DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 NC BUILDING CODE (2015 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 SC BUILDING CODE (2021 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 VA CONSTRUCTION CODE (2018 IBC)



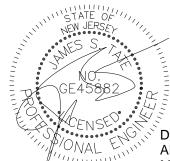
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2020 BUILDING CODE OF NEW YORK STATE (2018 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 20210 BUILDING CODENEW JERSEY EDITION (2021 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC

2023.02.01



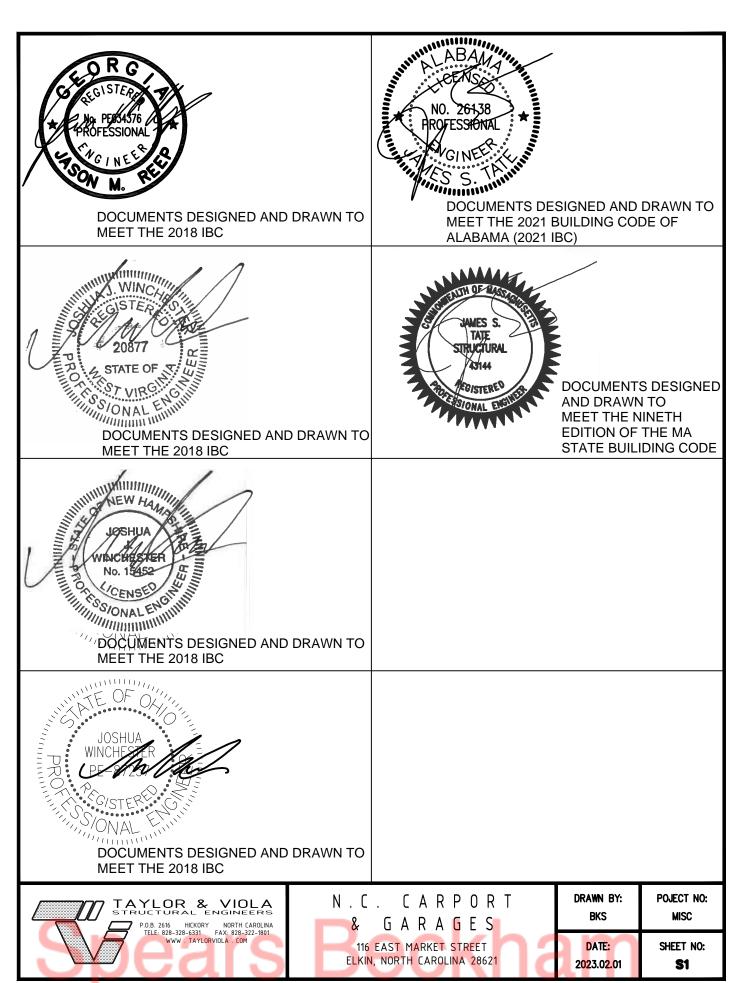
N.C. CARPORT
& GARAGES

116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

DRAWN BY: POJECT NO:
BKS MISC

DATE: SHEET NO:

**S1** 



# SHEET INDEX

SHEET NUMBER	SHEET TITLE
\$0	SEALED COVER SHEET P.E. SEALS SHEET P.E. SEALS SHEET DRAWING INDEX GENERAL NOTES AND SPECIFICATIONS SIDE AND END ELEVATIONS TYPICAL RAFTER /
S5A ———	COLUMN FRAME SECTIONS  TYPICAL RAFTER / COLUMN FRAME SECTIONS
S5B ———	TYPICAL RAFTER / COLUMN FRAME AND SIDE FRAMING SECTION
S6 ———	COLUMN CONNECTION DETAILS (LACED COLUMN)
S6A ———	COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)
S6B ———	COLUMN CONNECTION DETAILS (LACED COLUMN)
S6C ———	COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)
\$7 ———— \$7A ———— \$8 ———— \$9 ———	BASE RAIL ANCHORAGE BASE RAIL ANCHORAGE BASE RAIL ANCHORAGE TYPICAL END WALL OPENINGS FRAMING SECTIONS
S9A ———	TYPICAL SIDE WALL OPENINGS FRAMING SECTIONS
\$15C ———— \$16 ————————————————————————————————————	CONNECTION DETAILS CONNECTION DETAILS CONNECTION DETAILS CONNECTION DETAILS CONNECTION DETAILS LEAN-TO OPTIONS LEAN-TO CONNECTION DETAILS LEAN-TO CONNECTION DETAILS LEAN-TO CONNECTION DETAILS LEAN-TO CONNECTION DETAILS VERTICAL ROOF / SIDING OPTION END AND SIDE ELEVATION VERTICAL ROOF / SIDING OPTION END SECTION VERTICAL ROOF / SIDING OPTION SIDE SECTION
S17A	END WALL HEADER OPTIONS



N.C. CARPORT GARAGES

116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 DRAWN BY: BKS

POJECT NO: MISC

2023.02.01

DATE: SHEET NO: **S2** 

IMPORTANCE FACTORS	SNOW (1	w) 1.00 s) 1.00 e) 1.00					
DEAD LOADS	ROOF COLLATERAL	13	PSF PSF				
LIVE LOADS	ROOF	_20	PSF				
GROUND SNOW LOAD:		_30	PSF				
GROUND LOAD:	BASIC WIND SPEED EXPOSURE CATAGORY	V 145	mph (ASCE	7–10)	* DRIFT LOAD HAS NOT BEEN CALCULATED		
SEISMIC DESIGN CATAGORY A							
COMPLIANCE WITH SECTION 1616.4?							
PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:							
OCCUPANCY CATEGORY							
SPECTRAL RESPONSE ACCELERATION Ss 20.5 %g S1 8.8 %g							
SITE CLASSIFICATION _D FIELD TEST PRESUMPTIVE HISTORICAL DATA							
BASIC STRUCTURAL SYSTEM (CHECK ONE)							
BEARING WALL  DUAL W/ SPECTRAL MOMENT FRAME  DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL  NOMENT FRAME  INVERTED PENDULUM							
ANALYSIS PROCEDURE	SIMPLIFIEDX	_ EQUIVA	LANT LATERA	L FORCE	MODAL		
LATERAL DESIGN CONTROL? EARTHQUAKEX WIND							
SOIL BEARING CAPACITIES:  PRESUMPTIVE BEARING CAPACITIES: 2,000 PSF							

#### **GENERAL NOTES:**

- 1. MAX FRAME SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
- 2. MAX. END-WALL COLUMN SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
- 3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14 GA. 50 KSI MIN. UNLESS NOTED OTHERWISE.
- 4. ALL FASTENERS SHALL BE #12 SELF TAPPING AT 9"o.c. UNLESS NOTED OTHERWISE.
- 5. 2,000 PSF ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.



N.C. CARPORT

& GARAGES

116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

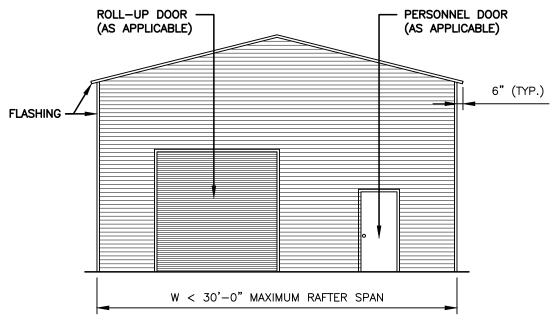
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BKS MISC

DATE: SHEET NO:

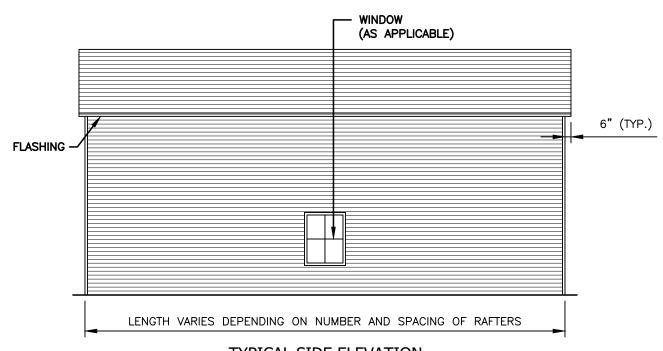
2023.02.01

**S3** 

## **BOX EVE FRAME RAFTER STURCTURE**



## TYPICAL END ELEVATION



#### TYPICAL SIDE ELEVATION



N.C. CARPORT

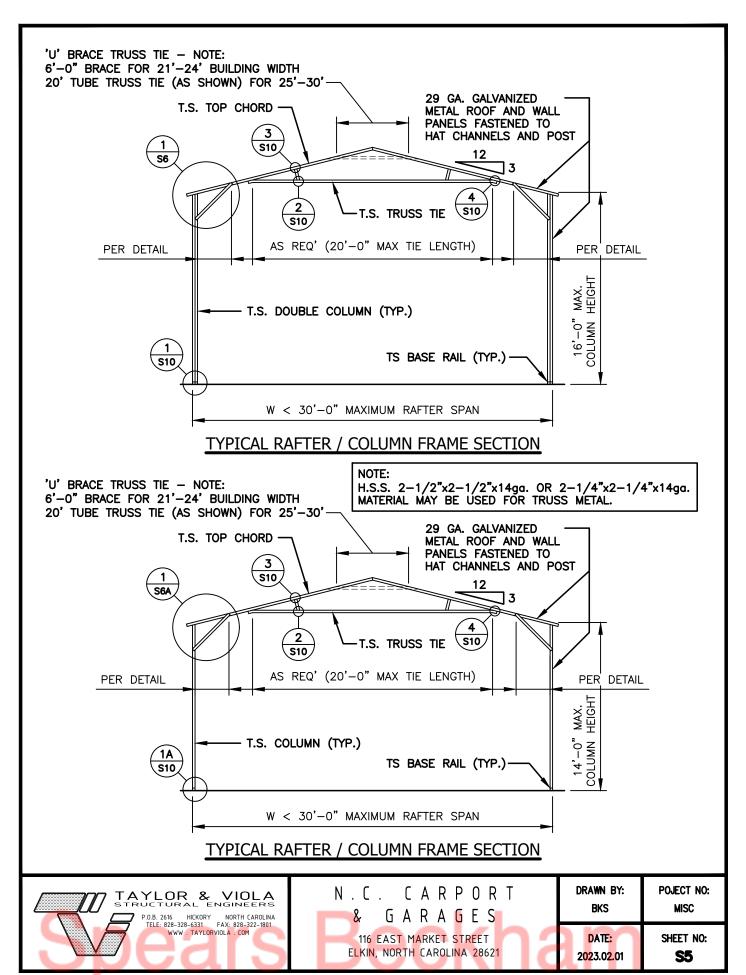
& GARAGES

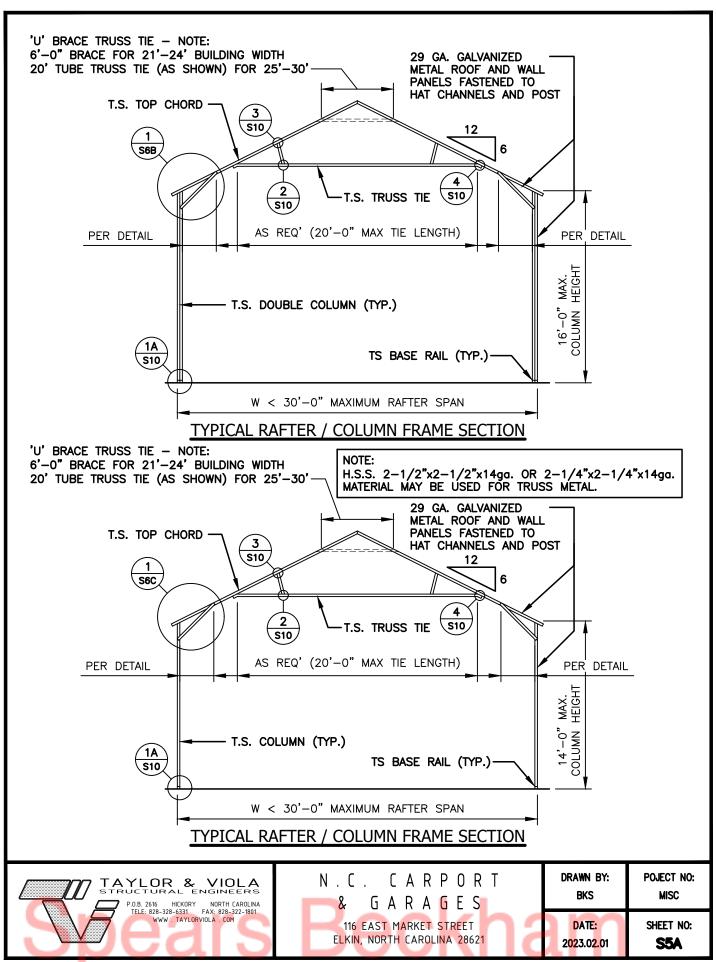
116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

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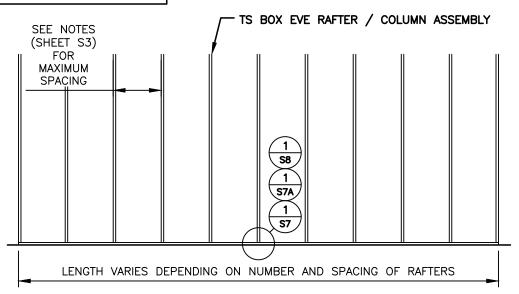
BKS MISC

DATE: SHEET NO:
2023.02.01 \$4





NOTE: H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.



## TYPICAL RAFTER / COLUMN SIDE FRAME SECTION



N.C. CARPORT

& GARAGES

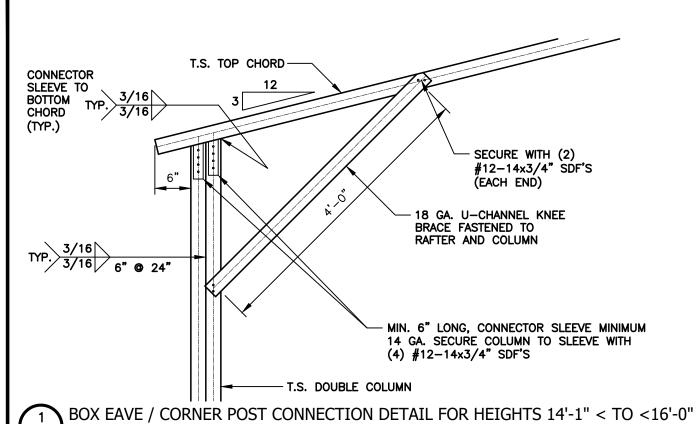
116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

DRAWN BY: BKS

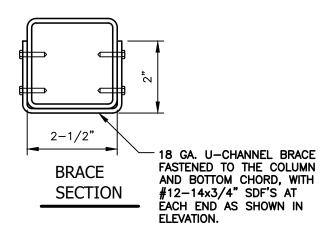
POJECT NO: MISC

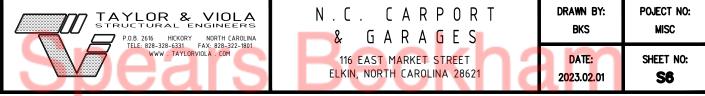
DATE: 2023.02.01

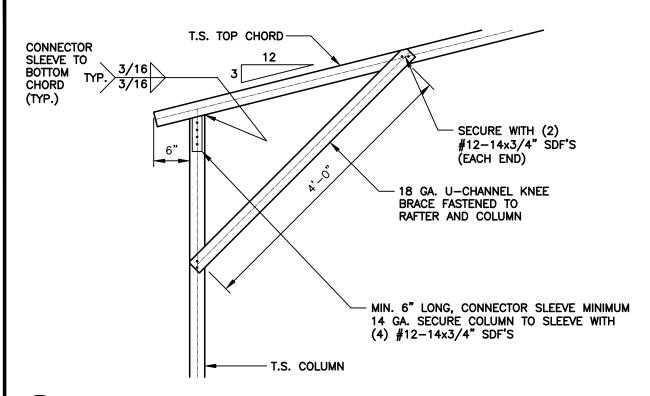
SHEET NO:



**S6** SCALE: 3/4" = 1'-0"



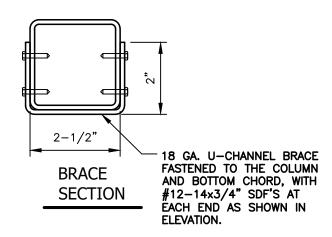




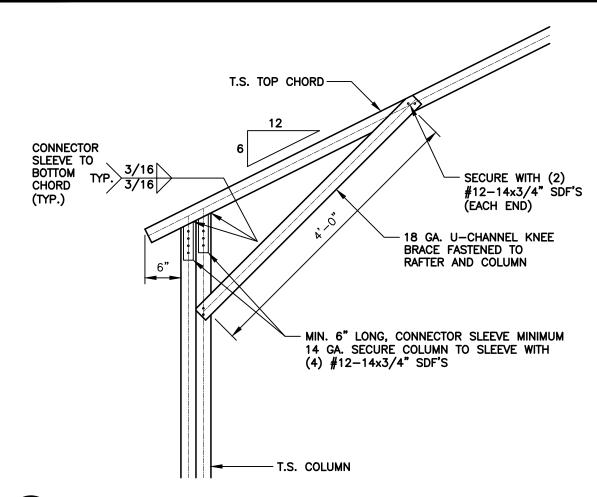
BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

S6A

SCALE: 3/4" = 1'-0"

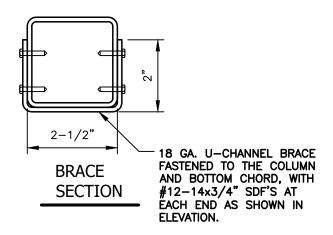






BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

**S6C** SCALE: 3/4" = 1'-0"





N . C . C A R P O R T

& G A R A G E S

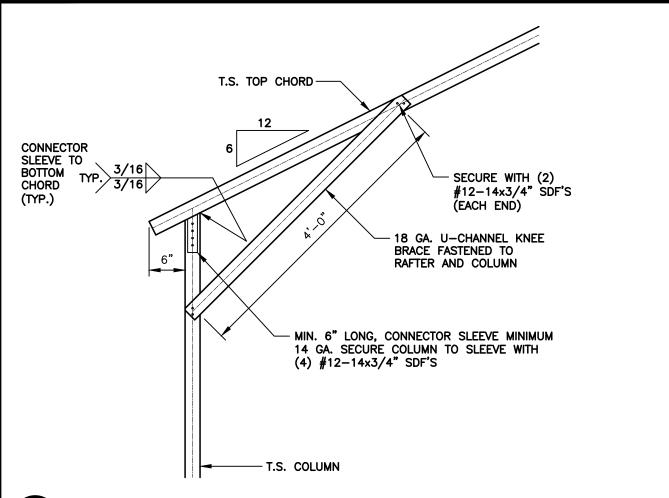
116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

DRAWN BY: BKS

DATE: SHEET NO: 2023.02.01 **S6B** 

POJECT NO:

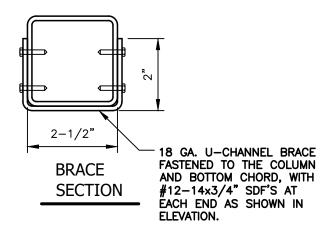
MISC



BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

S6C

SCALE: 3/4" = 1'-0"





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116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

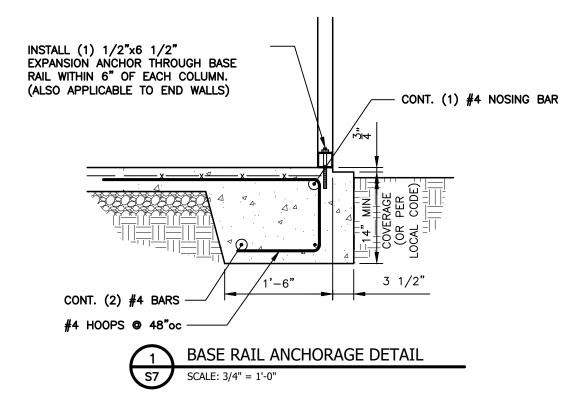
DRAWN BY: BKS

POJECT NO: MISC

DATE: 2023.02.01

SHEET NO: **S6C** 

#### CONCRETE BASE RAIL ANCHORAGE



#### **GENERAL NOTES:**

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 PSF

#### **CONCRETE:**

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS

#### COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

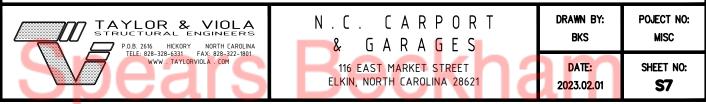
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### REINFORCING STEEL:

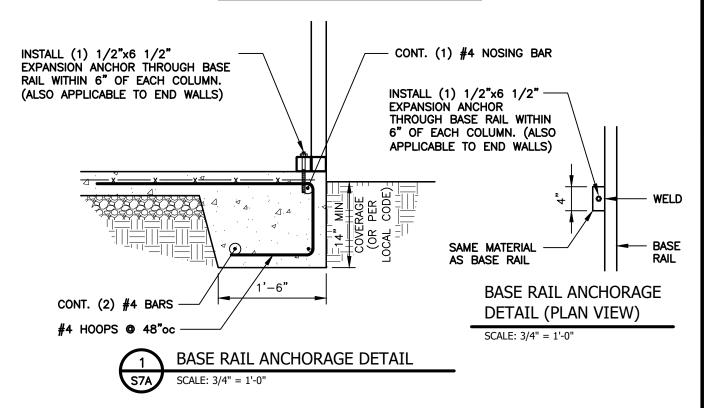
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

- 1. REINFORCEMENT IS BENT COLD.
- THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX—BAR DIAMETERS.
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



#### CONCRETE BASE RAIL ANCHORAGE



#### **GENERAL NOTES:**

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 PSF

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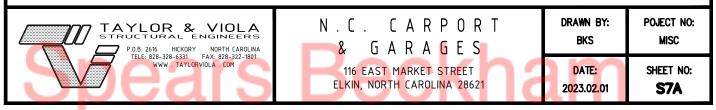
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### **REINFORCING STEEL:**

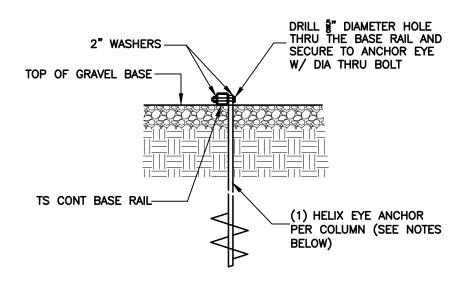
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

- 1. REINFORCEMENT IS BENT COLD.
- THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



### SOIL NAIL BASE RAIL ANCHORAGE



#### BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

HELIX EMBEDMENT INFORMATION: FOR VERY DENSE OR CEMETED SANDS, COARSE GRAVEL, COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT

FOR CORAL, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT

FOR MED DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILTS, AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" **EMBEDMENT** 

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT

FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS AND ALLUVIAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT



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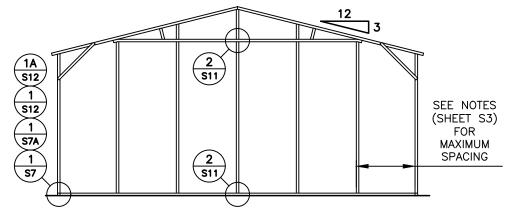
DRAWN BY: BKS

POJECT NO: MISC

2023.02.01

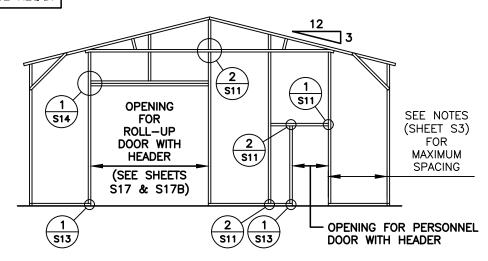
DATE: SHEET NO: **S8** 

### **BOX EVE RAFTER END WALL OPENINGS**



### TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

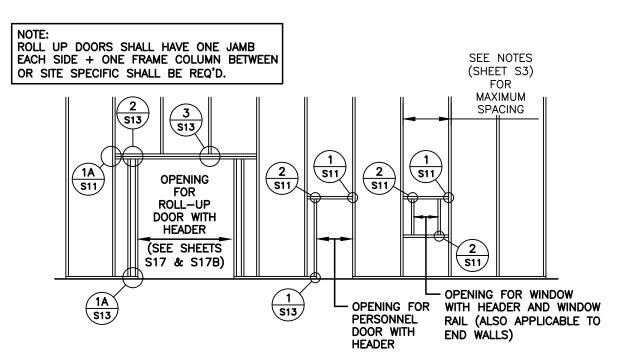
NOTE:
ROLL UP DOORS SHALL
HAVE ONE JAMB EACH
SIDE + ONE FRAME
COLUMN BETWEEN OR SITE
SPECIFIC SHALL BE REQ'D.



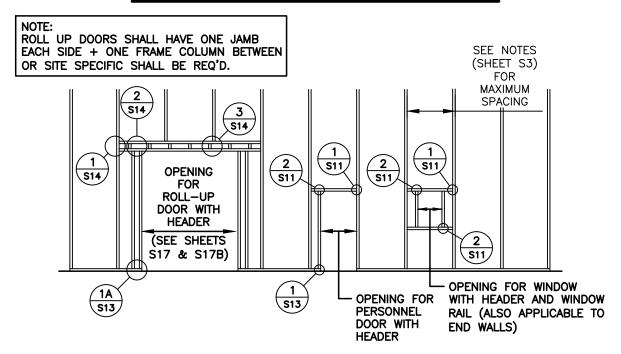
# TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION



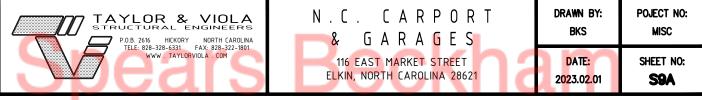
#### BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

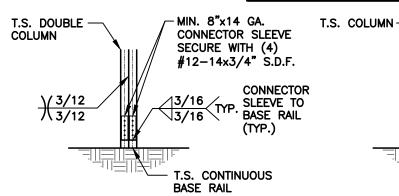


#### TYPICAL END WALL OPENING FRAMING SECTION

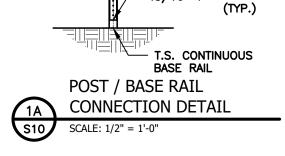


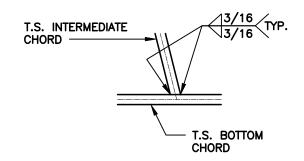
#### TYPICAL SIDE WALL OPENING FRAMING SECTION





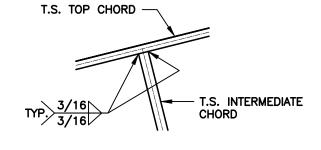
POST / BASE RAIL
CONNECTION DETAIL
SCALE: 1/2" = 1'-0"





INTERMEDIATE CHORD TO BOTTOM CHORD CONNECTION DETAIL

**S10** SCALE: 1/2" = 1'-0"



MIN. 8"x14 GA.

CONNECTOR SLEEVE

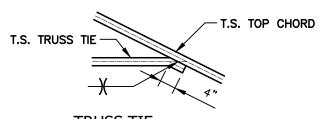
SECURE WITH (4) #12-14x3/4" S.D.F.

3/16 TYP. SLEEVE TO BASE RAIL

CONNECTOR

INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL

S10 SCALE: 1/2" = 1'-0"



TRUSS TIE
CONNECTION DETAIL
S10
SCALE: 1/2" = 1'-0"



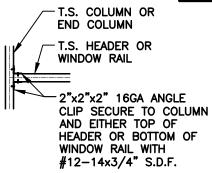
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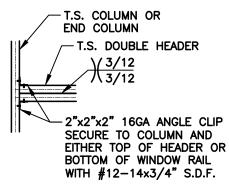
DATE: SHEET NO:
2023.02.01 \$10



COLUMN OR WINDOW RAIL / WALL GIRT TO POST CONNECTION DETAIL



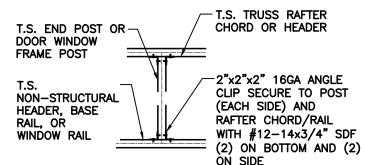
SCALE: 1/2" = 1'-0"



COLUMN / DOUBLE HEADER CONNECTION DETAIL



SCALE: 1/2" = 1'-0"



DOOR OR WINDOW HEADER RAIL TO POST CONNECTION DETAIL



SCALE: 1/2" = 1'-0"



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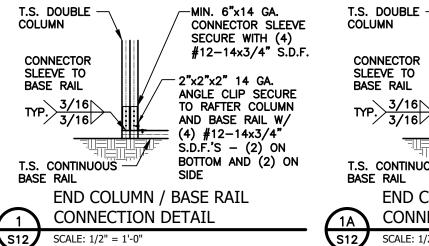
& GARAGES

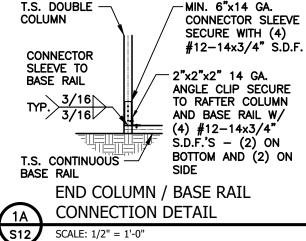
116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

DRAWN BY: BKS POJECT NO: MISC

DATE: 2023.02.01

SHEET NO: 01 **\$11** 







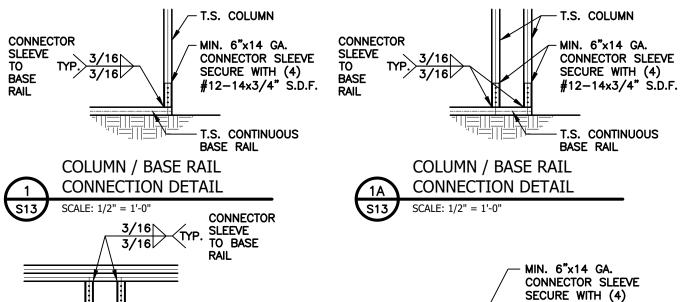
N.C. CARPORT

& GARAGES

116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

DRAWN BY: POJECT NO:
BKS MISC

DATE: SHEET NO:
2023.02.01 \$12

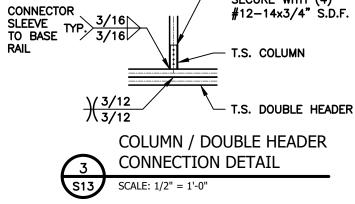


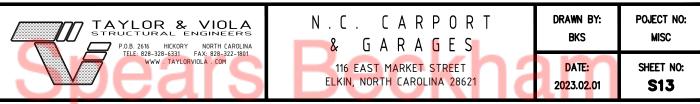
DOUBLE HEADER / COLUMN
CONNECTION DETAIL
SCALE: 1/2" = 1'-0"

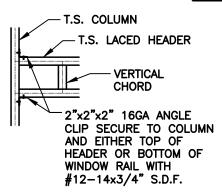
MIN. 6"x14 GA. CONNECTOR SLEEVE

(TYP)

SECURE WITH (4) #12-14x3/4" SDF





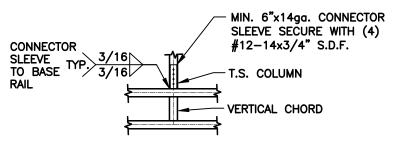


T.S. LACED HEADER VERTICAL CHORD MIN. 6"x14ga. CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. T.S. COLUMN

COLUMN / LACED HEADER CONNECTION DETAIL

S14 SCALE: 1/2" = 1'-0" LACED HEADER / COLUMN **CONNECTION DETAIL** 

SCALE: 1/2" = 1'-0"



COLUMN / LACED HEADER CONNECTION DETAIL

3

**S14** 

SCALE: 1/2" = 1'-0"



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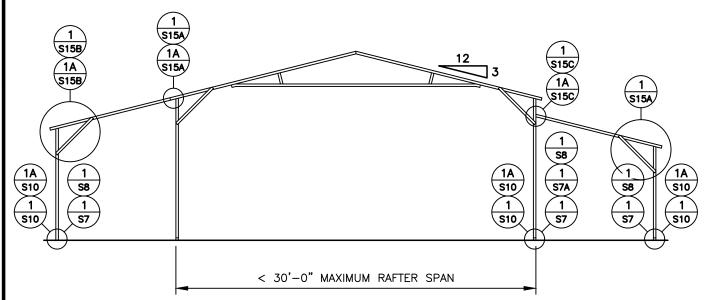
DRAWN BY: BKS

POJECT NO: MISC

2023.02.01

DATE: SHEET NO: **S14** 

# **BOX EVE RAFTER LEAN-TO OPTIONS**



# TYPICAL LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0"

MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN-TO IS 15'-0"

12'-0" MAX. LEAN-TO HEIGHT WITH SINGLE COLUMN



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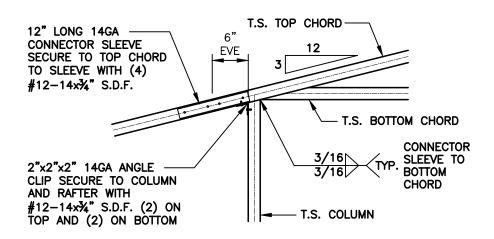
116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

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DATE: 2023.02.01

SHEET NO: **\$15** 

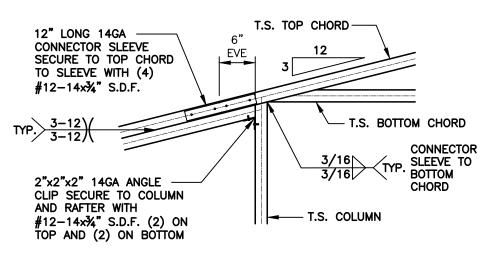
# **LEAN-TO CONNECTION DETAILS**



ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 12'-0"

1 S15A

SCALE: 3/4" = 1'-0"



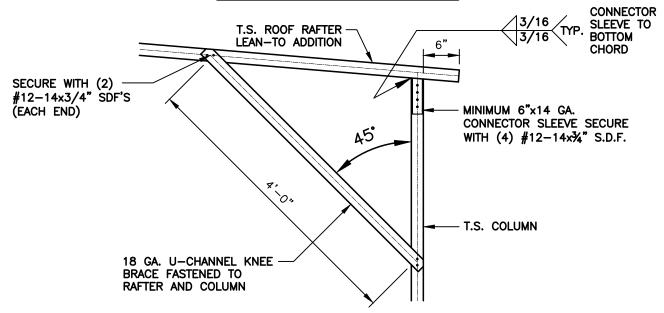
ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 15'-0"

1A S15A

SCALE: 3/4" = 1'-0"

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	116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621	DATE: 2 <mark>02</mark> 3.02.01	SHEET NO: S15A





BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR LEAN-TO RAFTER SPAN <12'-0"

SCALE: 3/4" = 1'-0" 3<u>/16</u> TYP. **CONNECTOR** SLEEVE TO T.S. ROOF RAFTER 3/16 воттом LEAN-TO ADDITION **CHORD** SECURE WITH (2) — #12-14x3/4" SDF'S (EACH END) MINIMUM 6"x14 GA. CONNECTOR SLEEVE SECURE 45 WITH (4) #12-14x3/4" S.D.F. 0. T.S. COLUMN 18 GA. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN

> BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR LEAN-TO RAFTER SPAN <15'-0"

SCALE: 3/4" = 1'-0"



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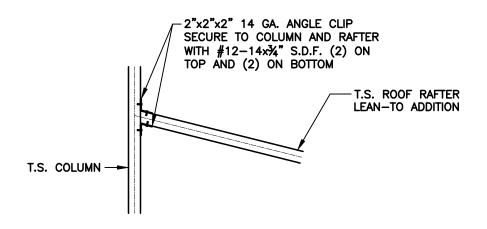
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POJECT NO: MISC

2023.02.01

DATE: SHEET NO: **S15B** 

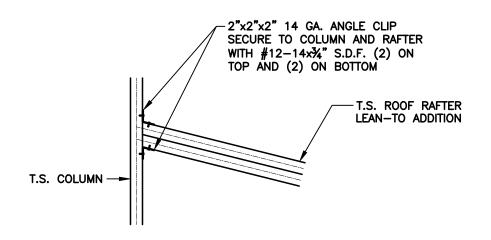
# **LEAN-TO CONNECTION DETAILS**



# 1 S15C

# LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 12'-0"

SCALE: 3/4" = 1'-0"





# LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 15'-0"

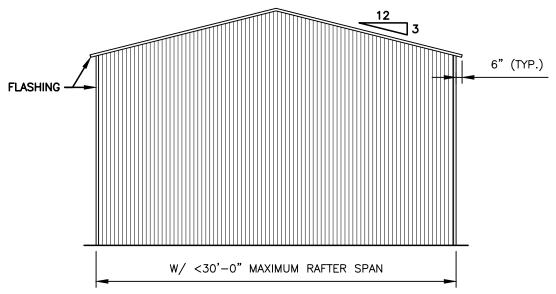
SCALE: 3/4" = 1'-0"



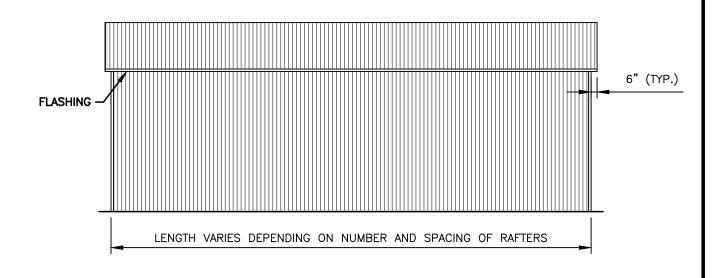
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&	G	Α	R	Α	G	Ε	S	
116 ELKIN	EAS							
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2023 02 01	C150		

# **VERTICAL ROOF / SIDING OPTION**



# TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



# TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



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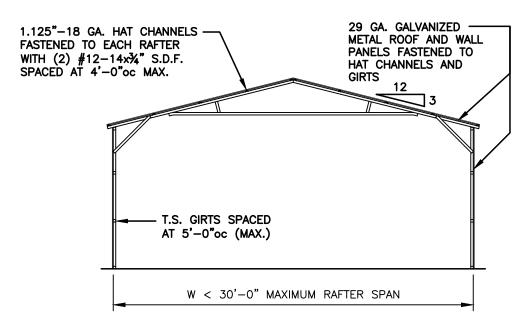
& GARAGES

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DATE: 2023.02.01 SHEET NO: S16

# **VERTICAL ROOF / SIDING OPTION**



# TYPICAL SECTION VERTICAL ROOF / SIDING OPTION

NOTE:

H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.



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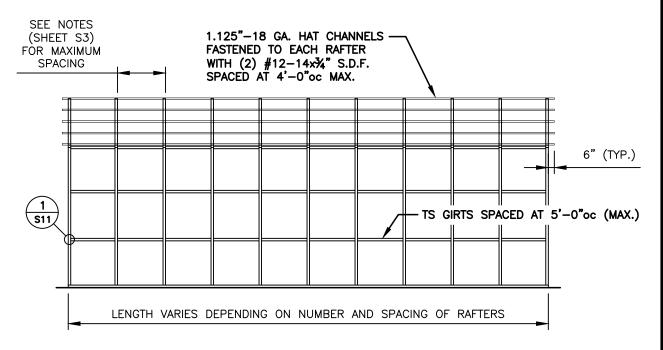
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POJECT NO: MISC

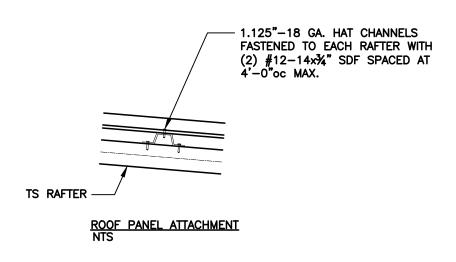
2023.02.01

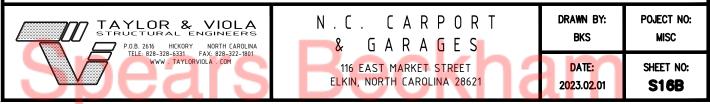
DATE: SHEET NO: **S16A** 

### **VERTICAL ROOF / SIDING OPTION**

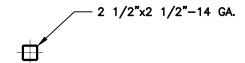


# TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION

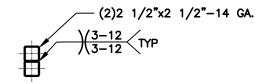




### **SIDE WALL HEADER OPTIONS**



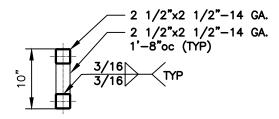
HEADER DETAIL FOR DOOR OPENINGS < 4'-0" NTS



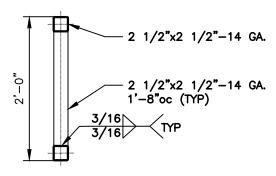
HEADER DETAIL FOR DOOR

OPENINGS 4'-1" < TO < 12'-0"

NTS



LACED HEADER DETAIL FOR DOOR OPENINGS 12'-1" < TO < 15'-0" NTS



LACED HEADER DETAIL FOR DOOR OPENINGS 15'-1" < TO < 20'-0"



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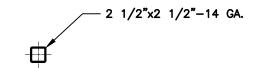
& GARAGES

116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

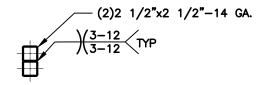
DRAWN BY: POJECT NO:
BKS MISC

DATE: SHEET NO:
2023.02.01 \$17

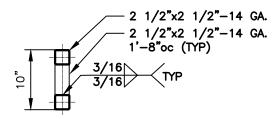
# **END WALL HEADER OPTIONS**



HEADER DETAIL FOR DOOR OPENINGS < 7'-0" NTS



<u>HEADER DETAIL FOR DOOR</u>
<u>OPENINGS 7'-1" < TO < 16'-0"</u>
NTS



LACED HEADER DETAIL FOR DOOR OPENINGS 16'-1" < TO < 20'-0" NTS

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