



MASTER ISSUE DATE  
4/22/2020  
DO NOT SCALE PAPER  
CONSTRUCTION SHALL BE  
PER INDICATED DIMENSIONS  
DATE  
LATEST REVISION DATE

GAR  
LEFT

DOVE HOMES, LLC  
RALEIGH, NC  
919-427-6991

AUBREY  
ELEVATION 'B' - CRAWL

SHEET #  
4.00

**General Elevation Notes**

General Elevation Notes shall apply unless noted otherwise on plan.

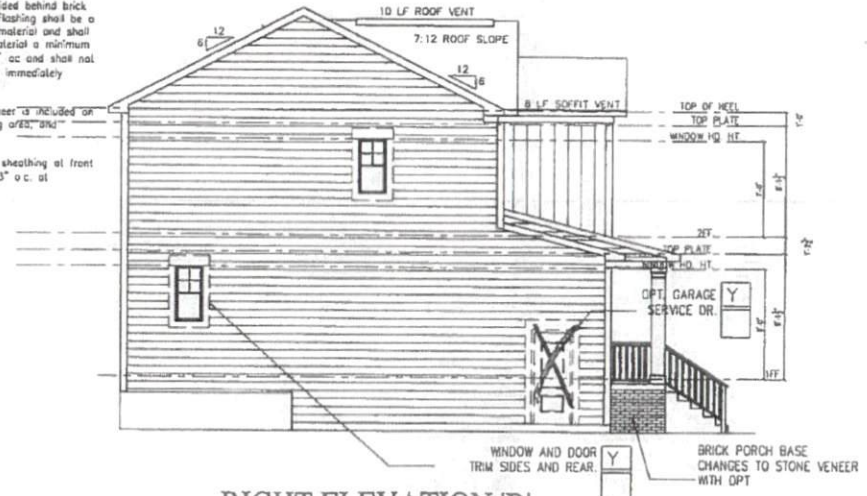
- Roof shall be finished with composition shingles with slopes as noted on plan.
- Metal Roof finish is used as an accent material and may be optional, consult community specifications.
- Ridge Vents shall be provided and installed on all ridges greater than 6" in length per manufacturer's specifications.
- Soffit Vents shall be continuous soffit vent, consult community specifications for material.
- Additional Vents may be required to meet ventilation requirements, consult ventilation calculations and additional vents noted on plan.
- House Wrap, "Tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations. "Zip" system sheathing may substitute for House Wrap.
- Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
- Porch Railings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
- Finish Wall Material shall be as noted on elevation drawings. Consult community specifications for material make-up of siding, shown as generic on drawing.
- Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24" o.c. horizontally and 16" o.c. vertically so that no more than 2.67sf of brick is supported by (1) tie. Space between face of wall and back face of brick shall be limited to a maximum of 1". Flashing shall be provided behind brick above all wall openings and at base of brick wall. Flashing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it laps under the house wrap material a minimum of 2". Weepholes shall be provided at a rate of 48" o.c. and shall not be less than 3/16" in diameter and shall be located immediately above flashing.
- Brick Veneer Support Lath shall be provided if brick veneer is included on elevation. See structural plans for lath size, bearing and "bird" connection to header.
- Sheathing House is covered 100% with structural wood sheathing at front and rear and side elevations provide nail pattern of 3" o.c. at perimeter and 6" o.c. at field.

*side  
no Duct/Hung 5*

OPT. MAIN ROOF O.H.



**FRONT ELEVATION 'B'**  
SCALE: 1/4"=1'-0" ON 22x34 AND 1/8"=1'-0" ON 11x17



**RIGHT ELEVATION 'B'**  
SCALE: 1/8"=1'-0" ON 22x34 AND 1/16"=1'-0" ON 11x17

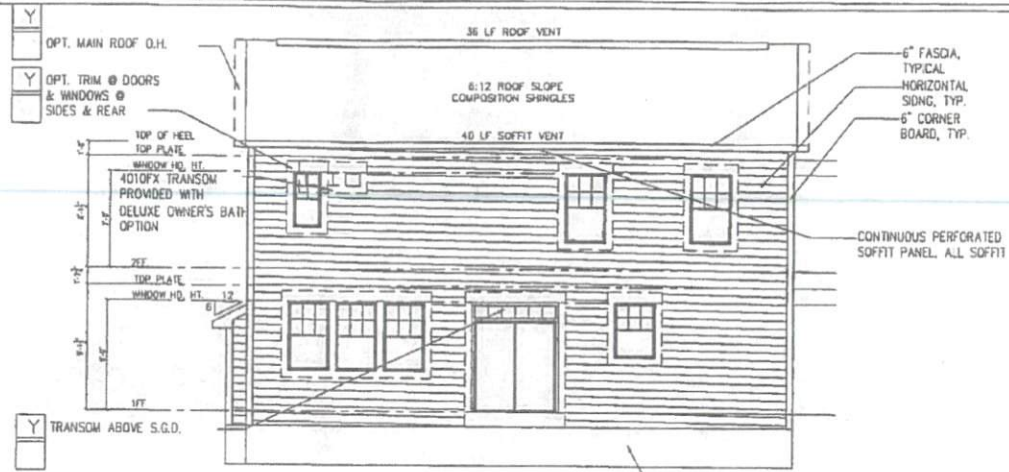
**ROOF VENT. CALCULATIONS ELEV 'B'**

MAIN ROOF ATIC	
1198 SQ. FT.	
ATIC VENTILATION REQUIRED	
1198 SQ. FT.	= 3.99 SQ. FT. REQUIRED
46 LF RIDGE VENT @ 18 S.I./LF = 46x18 = 828 S.I. = 5.75 SF	
63 LF SOFFIT VENT @ 4.5 S.I./LF = 63x4.5 = 283 S.I. = 1.96 SF	
	7.71 SF PROVIDED
ROOF OF GARAGE AND FRONT PORCH	
328 SQ. FT.	
ATIC VENTILATION REQUIRED	
328 SQ. FT.	= 1.09 SQ. FT. REQUIRED
40 LF SOFFIT VENT @ 4.5 S.I./LF = 40x4.5 = 180 S.I. = 1.25 SF	
	0.87 SF PROVIDED
OPT COVERED OR SCREEN PORCH	
120 SQ. FT.	
ATIC VENTILATION REQUIRED	
120 SQ. FT.	= 0.4 SQ. FT. REQUIRED
10 LF RIDGE VENT @ 18 S.I./LF = 10x18 = 180 S.I. = 1.25 SF	
20 LF SOFFIT VENT @ 4.5 S.I./LF = 20x4.5 = 90 S.I. = 0.62 SF	
	1.87 SF PROVIDED

**General Elevation Notes**

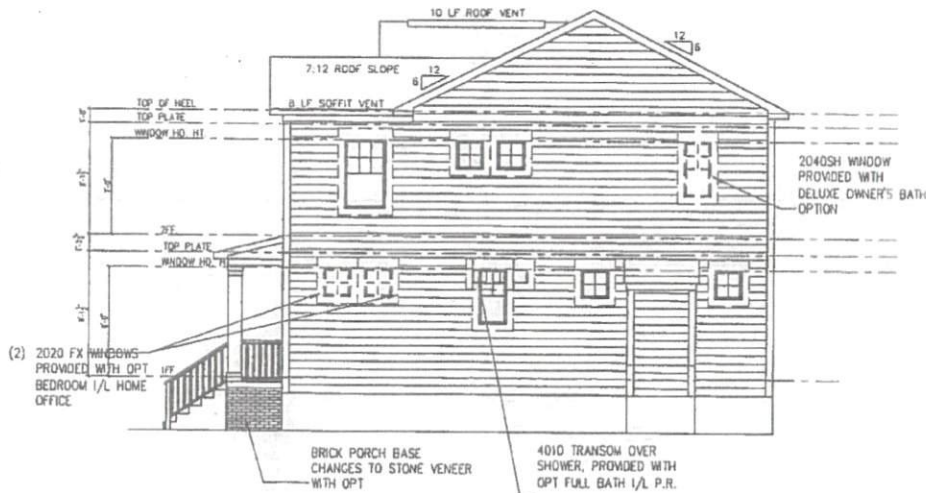
General Elevation Notes shall apply unless noted otherwise on plan.

1. Roof shall be finished with composition shingles with slopes as noted on plan.
2. Metal Roof finish is used as an accent material and may be optional, consult community specifications.
3. Ridge Vents shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
4. Soffit Vents shall be continuous soffit vent, consult community specifications for material.
5. Additional Vents may be required to meet ventilation requirements, consult ventilation calculations and additional vents noted on plan.
6. House Wrap, "Tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations. "Zin" system sheathing may substitute for House Wrap.
7. Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
8. Fench Railings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
9. Finish Wall Material shall be as noted on elevation drawings. Consult community specifications for material make-up of siding, shown as generic on drawing.
10. Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24" oc horizontally and 16" oc vertically so that no more than 2.07sf of brick is supported by (1) tie. Spaces between face of wall and back face of brick shall be limited to a maximum of 1". Flashing shall be provided behind brick above all wall openings and at base of brick wall. Flashing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it laps under the house wrap material a minimum of 2". Weepholes shall be provided at a rate of 48" oc and shall not be less than 3/16" in diameter and shall be located immediately above flashing.
11. Brick Veneer Support Laths shall be provided if brick veneer is included on elevation. See structural plans for lath size, bearing area, and connection to header.
12. Sheathing House is covered 100% with structural wood sheathing at front and rear and side elevations provide nail pattern of 3" o.c. at perimeter and 6" o.c. at field.



**REAR ELEVATION**

SCALE: 1/8"=1'-0" ON 22x34 AND 1/16"=1'-0" ON 11x17



**LEFT ELEVATION 'B'**

SCALE: 1/8"=1'-0" ON 22x34 AND 1/16"=1'-0" ON 11x17

MASTER ISSUE DATE  
4/20/09  
DO NOT SCALE FROM  
DIMENSIONS SHALL BE  
PER RELATED SECTION  
DATE  
LATEST REVISION DATE

**GAR LEFT**

**DOVE HOMES, LLC**  
RALEIGH, NC  
919-427-6691

**AUBREY**  
ELEVATION 'B' - CRAWL

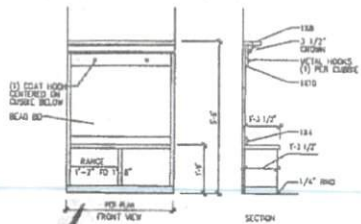
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4.00



**General Floor Plan Notes**

General Floor Plan Notes shall apply unless noted otherwise on a plan.

1. Wall Heights: Typically 9'-1-1/2" first floor and 8'-1-1/2" second floors U.N.O.. All walls are constructed using a double top plate. Splices of Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
2. Wall Thickness is typically 4" at exterior walls, 3-1/2" at interior. 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
3. Header height shall be 7'-11" AFF at 9" plate height and 6'-11" at 8" plate height, unless noted otherwise.
4. Soffits, Cofferded Ceilings, Tray Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
5. Door & Window Frames, where occurring near corners, shall be a minimum of 4-1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
6. Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. Windows used at unfinished attic spaces as elevation decorative elements only shall have obscure glazing.
7. Closets for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 5. Closets for pantries shall have 5 shelves. Consult spec level for solid or wire shelves.
8. Stairs shall have a minimum width dimensioned as 3'-7", treads shall be 10" deep, risers shall be a maximum of 7-3/4", unless noted otherwise.
9. Handrails and Guards of stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 42" above finished floor. Guards (pickets or bolusters) shall be spaced with no more than 4" between guards.
10. Attic Access shall be provided to attic areas that exceed 400 square feet and have a vertical height of 80" or greater. Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
11. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
12. Garage Walls, as a minimum, shall be separated from living space and living space attic by installing 1/2" gypsum board on the garage side of the wall.
13. Garage Ceilings, 5/8" type "X" gypsum board on the garage ceilings when heated space is above.

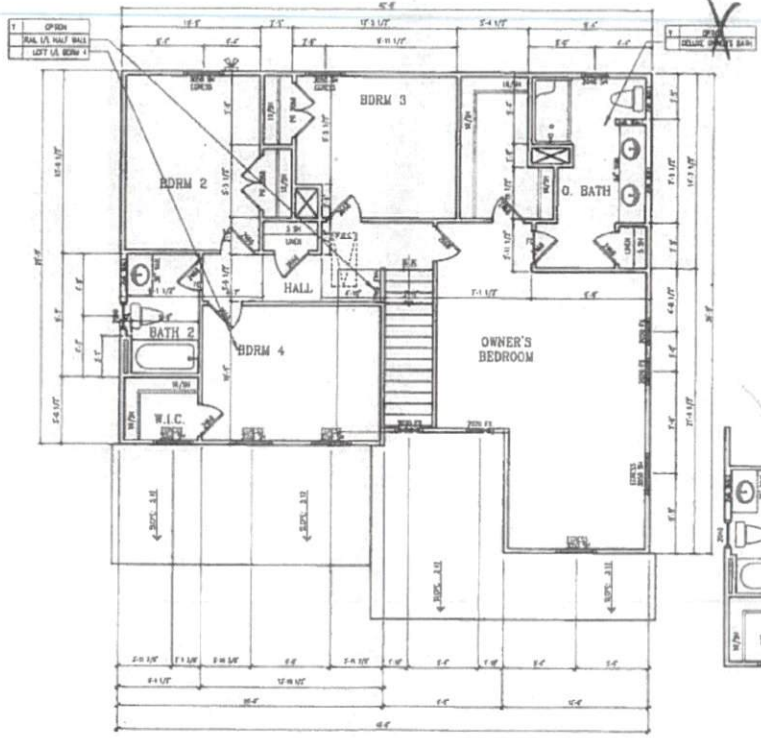




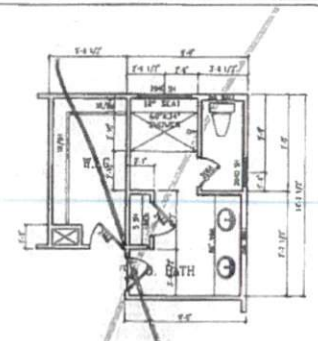
**General Floor Plan Notes**

General Floor Plan Notes shall apply unless noted otherwise on plan.

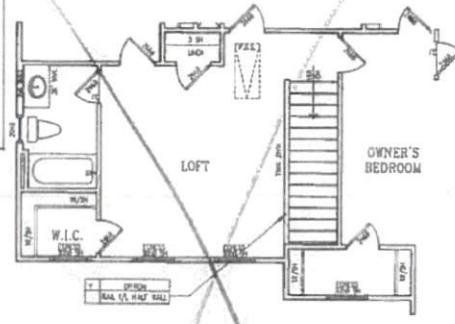
1. **Wall Heights:** Typically 9'-1-1/2" first floor and 8'-1-1/2" second floors U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
2. **Wall Thickness:** is typically 4" at exterior walls, 3-1/2" at interior. 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
3. **Header height** shall be 7'-11" AFF at 9' plate height and 6'-11" at 8' plate height, unless noted otherwise.
4. **Soffits, Catted Ceilings, Tray Ceilings** and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
5. **Door & Window Frames,** where occurring near corners, shall be a minimum of 4'-1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
6. **Windows:** Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. Windows used at unfinished attic spaces as elevation decorative elements only shall have obscure glazing.
7. **Closets** for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 5. Closets for pantries shall have 3 shelves. Consult spec level for solid or wire shelves.
8. **Stairs** shall have a minimum width dimensioned as 3'-7", treads shall be 10" deep, risers shall be a maximum of 7-3/4", unless noted otherwise.
9. **Handrails and Guards** at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multi-level spaces shall be 42" above finished floor. Guards (pickets or balusters) shall be spaced with no more than 4" between guards.
10. **Attic Areas** shall be provided to attic areas that exceed 400 square feet and have a vertical height of 60" or greater. Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
11. **Garage floor to Living Space** shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
12. **Garage Walk,** as a minimum, shall be separated from living space and living space attic by installing 1/2" gypsum board on the garage side of the wall.
13. **Garage Ceilings,** 5/8" type "X" gypsum board on the garage ceilings when heated space is above.



SECOND FLOOR PLAN  
SCALE: 1/8"=1'-0"



DELUXE OWNER'S BATH  
SCALE: 1/8"=1'-0"



LOFT I/L BDRM 4  
SCALE: 1/8"=1'-0"

MASTER ISSUE DATE:  
4/21/2023  
IF ANY FIELD PERIOD  
CONSTRUCTION SHALL BE  
FOR PRELIMINARY  
DATE  
LATEST REVISION DATE:

GAR LEFT

DOVE HOMES, LLC  
RALEIGH, NC  
919-427-6891

AUBREY  
2ND FLOOR PLAN - ELEVATION "B"

SHEET #  
6.00



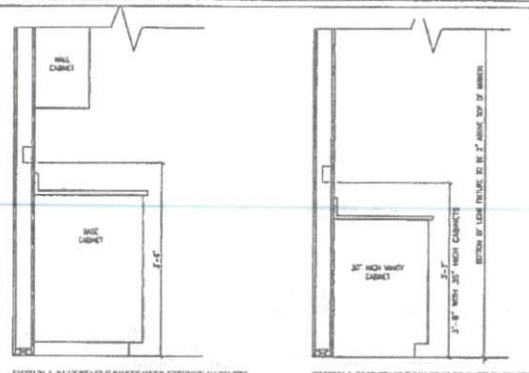
MASTER ISSUE DATE:  
4/22/2010  
DO NOT SCALE FROM  
CONTRACTOR SHALL BE  
FOR ALL SCALED DRAWINGS  
DATE

LATEST REVISION DATE  
**GAR  
LEFT**

**DOVE HOMES, LLC**  
RALEIGH, NC  
919-427-6891

**AUBREY**  
2ND FLOOR ELECTRICAL PLANS - ELEV 'B'

SHEET #  
7.00



SWITCH & RECEPTACLE BOXES OVER KITCHEN CABINETS

SWITCH & RECEPTACLE BOXES OVER BATH CABINETS

ELECTRICAL LEGEND	
WALL & BENCH RECEPTACLES FOR USE AND NOT FOR THE BENCH	
1. 120V 15A	
2. 120V 20A	
3. 120V 30A	
4. 120V 40A	
5. 120V 50A	
6. 120V 60A	
7. 120V 75A	
8. 120V 100A	
9. 120V 150A	
10. 120V 200A	
11. 120V 250A	
12. 120V 300A	
13. 120V 350A	
14. 120V 400A	
15. 120V 450A	
16. 120V 500A	
17. 120V 550A	
18. 120V 600A	
19. 120V 650A	
20. 120V 700A	
21. 120V 750A	
22. 120V 800A	
23. 120V 850A	
24. 120V 900A	
25. 120V 950A	
26. 120V 1000A	
27. 120V 1050A	
28. 120V 1100A	
29. 120V 1150A	
30. 120V 1200A	
31. 120V 1250A	
32. 120V 1300A	
33. 120V 1350A	
34. 120V 1400A	
35. 120V 1450A	
36. 120V 1500A	
37. 120V 1550A	
38. 120V 1600A	
39. 120V 1650A	
40. 120V 1700A	
41. 120V 1750A	
42. 120V 1800A	
43. 120V 1850A	
44. 120V 1900A	
45. 120V 1950A	
46. 120V 2000A	
47. 120V 2050A	
48. 120V 2100A	
49. 120V 2150A	
50. 120V 2200A	
51. 120V 2250A	
52. 120V 2300A	
53. 120V 2350A	
54. 120V 2400A	
55. 120V 2450A	
56. 120V 2500A	
57. 120V 2550A	
58. 120V 2600A	
59. 120V 2650A	
60. 120V 2700A	
61. 120V 2750A	
62. 120V 2800A	
63. 120V 2850A	
64. 120V 2900A	
65. 120V 2950A	
66. 120V 3000A	
67. 120V 3050A	
68. 120V 3100A	
69. 120V 3150A	
70. 120V 3200A	
71. 120V 3250A	
72. 120V 3300A	
73. 120V 3350A	
74. 120V 3400A	
75. 120V 3450A	
76. 120V 3500A	
77. 120V 3550A	
78. 120V 3600A	
79. 120V 3650A	
80. 120V 3700A	
81. 120V 3750A	
82. 120V 3800A	
83. 120V 3850A	
84. 120V 3900A	
85. 120V 3950A	
86. 120V 4000A	
87. 120V 4050A	
88. 120V 4100A	
89. 120V 4150A	
90. 120V 4200A	
91. 120V 4250A	
92. 120V 4300A	
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104. 120V 4900A	
105. 120V 4950A	
106. 120V 5000A	
107. 120V 5050A	
108. 120V 5100A	
109. 120V 5150A	
110. 120V 5200A	
111. 120V 5250A	
112. 120V 5300A	
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116. 120V 5500A	
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122. 120V 5800A	
123. 120V 5850A	
124. 120V 5900A	
125. 120V 5950A	
126. 120V 6000A	
127. 120V 6050A	
128. 120V 6100A	
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132. 120V 6300A	
133. 120V 6350A	
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156. 120V 7500A	
157. 120V 7550A	
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161. 120V 7750A	
162. 120V 7800A	
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167. 120V 8050A	
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169. 120V 8150A	
170. 120V 8200A	
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172. 120V 8300A	
173. 120V 8350A	
174. 120V 8400A	
175. 120V 8450A	
176. 120V 8500A	
177. 120V 8550A	
178. 120V 8600A	
179. 120V 8650A	
180. 120V 8700A	
181. 120V 8750A	
182. 120V 8800A	
183. 120V 8850A	
184. 120V 8900A	
185. 120V 8950A	
186. 120V 9000A	
187. 120V 9050A	
188. 120V 9100A	
189. 120V 9150A	
190. 120V 9200A	
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192. 120V 9300A	
193. 120V 9350A	
194. 120V 9400A	
195. 120V 9450A	
196. 120V 9500A	
197. 120V 9550A	
198. 120V 9600A	
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200. 120V 9700A	
201. 120V 9750A	
202. 120V 9800A	
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204. 120V 9900A	
205. 120V 9950A	
206. 120V 10000A	

**GENERAL NOTES AND LEGEND:**

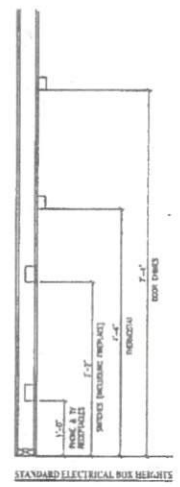
SECTION, PORTION AND LEGEND NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON PLANS. ALL WORK SHALL BE INSTALLED PER THE 2011 NC NECA/IBEW CODE, THE NATIONAL ELECTRICAL CODE, AND ALL OTHER REQUIREMENTS SPECIFIED IN THE NATIONAL ELECTRICAL CODE.

**GENERAL NOTES AND LEGEND:**

SECTION, PORTION AND LEGEND NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON PLANS. ALL WORK SHALL BE INSTALLED PER THE 2011 NC NECA/IBEW CODE, THE NATIONAL ELECTRICAL CODE, AND ALL OTHER REQUIREMENTS SPECIFIED IN THE NATIONAL ELECTRICAL CODE.

1. SWITCHES - SHALL BE PROVIDED AS A MINIMUM OF (1) PER ROOM, INCLUDING BATHS (IF APPLICABLE), (2) IN EACH SLEEPING ROOM, AND (3) OUTSIDE EACH SLEEPING ROOM. WHEN THE IMMEDIATE NEARBY OF SLEEPING ROOMS, WHEN MORE THAN ONE ALARM IS REQUIRED, THE ALARM SERVICE SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS. BACNET ALARMS SHALL BE HARD WIRED TO POWERHOUSE POWER AND SHALL HAVE BATTERY BACK-UPS.

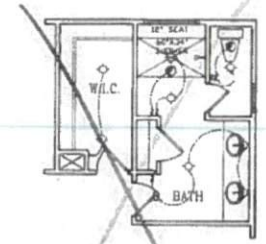
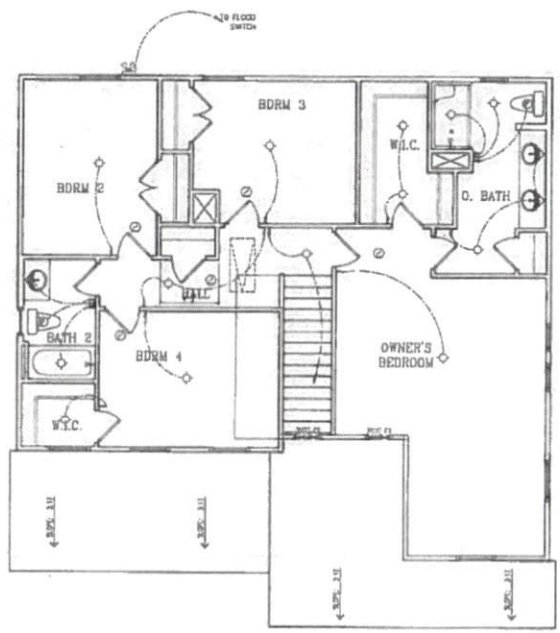
2. SWITCHES - FOR LIGHTING, FANS, ETC. SHALL BE INSTALLED AS NOTED OR LOCATED ON THE PLAN AND SHALL BE LOCATED A MINIMUM OF 1' FROM THE WALL TO ALLOW FOR THE PROPER INSTALLATION OF DIMMER SWITCHES, THERMOSTATS, SECURITY PADS AND OTHER SWITCHES. SWITCHES SHALL BE INSTALLED NEARBY AND INSTALLED PROTRUSIONLESS FOR CONFORMANCE OF USE AND TO AVOID PLACEMENT WITHIN COVERS OF WALL PANELS.



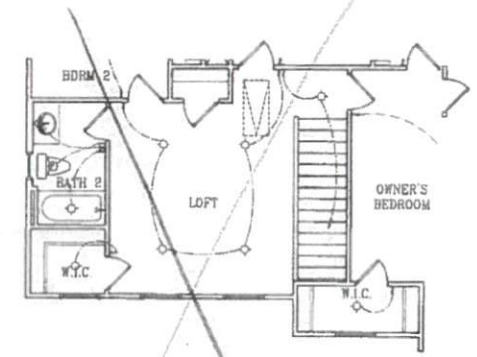
STANDARD ELECTRICAL BUS HEIGHTS

ELECTRICAL OUTLETS ARE NOT SHOWN UNLESS SPECIFICALLY CALLED FOR TO BE SWITCHED. PROVIDE OUTLETS IN REQUIRED VOLTAGES TO MEET PLAN REQUIREMENTS AND TO MEET ALL APPLICABLE CODES AND NATIONAL ELECTRICAL CODE CURRENT EDITIONS AND REQUIRED SPACING.

**SECOND FLOOR PLAN**  
SCALE: 1/8"=1'-0"



**DELUXE OWNER'S BATH**  
SCALE: 1/8"=1'-0"



**LOFT 1/L BDRM 4**  
SCALE: 1/8"=1'-0"

**DESIGN SPECIFICATIONS:**

Construction Type: Commercial  Residential

**Applicable Building Codes:**

- 2018 North Carolina Residential Building Code
- ASCE 7-10: Minimum Design Loads for Buildings and Other Structures

**Design Loads:**

- Roof Live Loads
  - Conventional 2x ..... 20 PSF
  - Truss ..... 20 PSF
    - Attic Truss ..... 60 PSF
- Roof Dead Loads
  - Conventional 2x ..... 10 PSF
  - Truss ..... 20 PSF
- Snow ..... 15 PSF
  - Importance Factor ..... 1.0
- Floor Live Loads
  - Typ. Dwelling ..... 40 PSF
  - Sleeping Areas ..... 30 PSF
  - Decks ..... 40 PSF
  - Passenger Garage ..... 50 PSF
- Floor Dead Loads
  - Conventional 2x ..... 10 PSF
  - I-Joist ..... 15 PSF
  - Floor Truss ..... 15 PSF
- Ultimate Wind Speed (3 sec. gust) ..... 130 MPH
  - Exposure ..... B
  - Importance Factor ..... 1.0
    - Wind Base Shear
      - V<sub>x</sub> =
      - V<sub>y</sub> =
- Component and Cladding (in PSF)

MEAN ROOF HT.	UP TO 30'	30'1"-35'	35'1"-40'	40'1"-45'
ZONE 1	16.7,-18.0	17.5,-18.9	18.2,-19.6	18.7,-20.2
ZONE 2	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5
ZONE 3	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5
ZONE 4	18.2,-19.0	19.2,-20.0	19.9,-20.7	20.4,-21.3
ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9

- Seismic
  - Site Class ..... D
  - Design Category ..... C
  - Importance Factor ..... 1.0
  - Seismic Use Group ..... 1
  - Spectral Response Acceleration
    - S<sub>ms</sub> = %g
    - S<sub>m1</sub> = %g
  - Seismic Base Shear
    - V<sub>x</sub> =
    - V<sub>y</sub> =
  - Basic Structural System (check one)
    - Bearing Wall
    - Building Frame
    - Moment Frame
    - Dual w/ Special Moment Frame
    - Dual w/ Intermediate R/C or Special Steel
    - Inverted Pendulum
  - Arch/Mech Components Anchored ..... No
  - Lateral Design Control: Seismic  Wind
- Assumed Soil Bearing Capacity ..... 2000psf



STRUCTURAL PLANS PREPARED FOR:

**AUBREY**

PROJECT ADDRESS: TBD  
OWNER: John Dove  
2516 Brook Crossing Circle  
Raleigh, NC 27606

DESIGNER: Mike Majewski, architect, PLLC  
8227 Hillside Drive  
Raleigh, NC 27612

These drawings are to be coordinated with the architectural, mechanical, plumbing, electrical, and civil drawings. This coordination is not the responsibility of the structural engineering of record (SER). Should any discrepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory and Testing, P.C. before construction begins.

**PLAN ABBREVIATIONS:**

AB	Anchor Bolt	OC	On Center
ACI	American Concrete Institute	PCF	Pounds per Cubic Foot
ASCE	American Society of Civil Engineers	PCI	Pounds per Cubic Inch
AFA	American Fiberboard Association	PSF	Pounds per Square Foot
AFF	Above Finished Floor	PSI	Pounds per Square Inch
AISC	American Institute for Steel Construction	PT	Pressure Treated
APA	American Plywood Association	SC	Stud Column
AWS	American Welding Society	SER	Structural Engineer of Record
CJ	Ceiling Joist	SJ	Single Joist
CLR	Clear	SPF	Spruce Pine Fir
DBL	Double	SST	Simpson Strong Tie
DJ	Double Joist	ST	Single Truss
DSP	Double Stud Pocket	STD	Standard
EA	Each	SYP	Southern Yellow Pine
EE	Each End	TJ	Triple Joist
EOS	Edge of Slab	TOF	Top of Footing
EW	Each Way	TSP	Triple Stud Pocket
HDG	Hot Dipped Galvanized	TYP	Typical
NDS	Nation Design Spec. for Wood	UNO	Unless Noted Otherwise
NIS	Not to Scale	WWF	Welded Wire Fabric

**SHEET LIST:**

Sheet No.	Description
CS1	Cover Sheet, Specifications, Revisions
CS2	Specifications Continued
CS3	Revision Log
S1.0m	Monolithic Slab Foundation
S1.0s	Stem Wall Foundation
S1.0c	Crawl Space Foundation
S1.0b	Basement Foundation
S2.0	Basement Framing Plan
S3.0	First Floor Framing Plan
S4.0	Second Floor Framing Plan
S5.0	Roof Framing Plan
S6.0	Basement Bracing Plan
S7.0	First Floor Bracing Plan
S8.0	Second Floor Bracing Plan

197  
Farah - Shae  
Way  
Angier, NC 27501



STRUCTURAL MEMBERS ONLY



PROJECT: Aubrey LH  
Coversheet  
CLIENT: John Dove  
2516 Brook Crossing Circle  
Raleigh, NC 27606

CURRENT DRAWING  
DATE: 6/24/2020  
SCALE: 1/8"=1'-0"  
PROJECT #: 2672-12R-28266  
DRAWN BY: LBV  
CHECKED BY: LAG

ORIGINAL INFORMATION  
PROJECT # DATE  
28266 6/23/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET  
**CS1**



**GENERAL STRUCTURAL NOTES:**

- The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same entity.
- The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur.
- Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT.
- Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction begins.
- The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
- This structure and all construction shall conform to all applicable sections of the international residential code. All structural and all construction shall conform to all applicable sections of the 2018 North Carolina Residential Code (NCR) and any local codes or restrictions.

**FOUNDATIONS:**

- Foundations shall be constructed in accordance with chapter 4 of the 2018 NC Residential Code (Special consideration shall be given to chapter 45 in wind zones 130 mph and above.)
- Footings sizes are based on a presumptive soil bearing capacity of 2000 PSF. The contractor is solely responsible for verifying the suitability of the site soil conditions at the time of construction.
- Maximum depth of unbalanced fill against masonry walls to be as specified in section R404.1 of the 2018 NCR.
- The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the owner or the contractor. Should any adverse soil condition be encountered the SER must be contacted before proceeding.
- The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.
- Any fill shall be placed under the direction or recommendation of a licensed professional engineer. The resulting soil shall be compacted to a minimum of 95% maximum dry density.
- Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane if placement of concrete does not occur within 24 hours of excavation.
- No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.
- Each crawl space pier shall bear in the middle third of its respective footing and each girder shall bear in the middle third of the pier. Piers are to be bonded to the perimeter foundation wall.
- Crawl space to be graded level and clear of all debris.
- Proved foundation waterproofing and drain with positive slope to outlet as required by site conditions.
- Energy efficiency compliance and insulation of the structure to be in accordance with chapter 11 of the 2018 NCR.

**STRUCTURAL STEEL:**

- Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- All steel shall have a minimum yield stress ( $F_y$ ) of 36 ksi unless otherwise noted.
- Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D1.1. Electrodes for shop and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.

**CONCRETE:**

- Concrete shall have a normal weight aggregate and a minimum compressive strength ( $f'_c$ ) at 28 days of 3000 psi, unless noted otherwise on the plans.
- Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings".
- Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of target values as follows:
  - Footings: 5%
  - Exterior Slabs: 5%
- No admixtures shall be added to any structural concrete without written permission of the SER.
- Concrete slab-on-grade shall be constructed in accordance with ACI 302.1R-98: "Guide for Concrete Slab and Slab Construction".
- The concrete slab-on-grade has been designed using a subgrade modulus of  $k=250$  pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions.
- Control or saw cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless noted otherwise.
- Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished. Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.
- All welded wire fabric (W.W.F.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour.

**CONCRETE REINFORCEMENT:**

- Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
- Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (1.5 pounds per cubic yard)
- Fibermesh shall comply with ASTM C1116, any local building code requirements, and shall meet or exceed the current industry standard.
- Steel reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
- Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement

with a class B tension splice.

- Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
- Where reinforcing dowels are required, they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
- Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

**WOOD FRAMING:**

- Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Southern-Yellow-Pine (SYP) #2.
- LVL or PSL engineered wood shall have the following minimum design values:
  - $E = 1,900,000$  psi
  - $F_b = 2600$  psi
  - $F_v = 285$  psi
  - $F_c = 700$  psi
- Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2.
- Nails shall be common wire nails unless otherwise noted.
- Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Load holes for lag screws shall be in accordance with NDS specifications.
- All beams shall have full bearing on supporting framing members unless otherwise noted.
- Exterior and load bearing stud walls are to be 2x4 SYP #2 @ 16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. King studs shall be continuous.
- Individual studs forming a column shall be attached with one 10d nail @ 5" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly braced at all floor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached with (3) 12d nails @ 12" O.C.
- Fitch beams, 4-ply beams and 3-ply side loaded beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered @ 24" O.C. unless noted otherwise. Min. edge distance shall be 2" and (2) bolts shall be located a min. 6" from each end of the beam.

**WOOD TRUSSES:**

- The wood truss manufacturer/fabricator is responsible for the design of the wood trusses. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses. SUMMIT shall be notified by the truss manufacturer/fabricator or the client of any discrepancies between the truss/joint layouts and the sealed structural plans prior to the start of construction.
- The wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimum Design Loads for Buildings and Other Structures." (ASCE 7-10), and the loading requirements shown on these specifications. The truss drawings shall be coordinated with all other construction documents and provisions provided for loads shown on these drawings including but not limited to HVAC equipment, piping, and architectural fixtures attached to the trusses.
- All girder truss to girder truss connections, truss to top plate connections and uplift connections are the responsibility of the wood truss manufacturer/fabricator.
- The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction." (NDS) and "Design Specification for Metal Plate Connected Wood Trusses."
- The truss manufacturer shall provide adequate bracing

information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments for the trusses.

**EXTERIOR WOOD FRAMED DECKS:**

- Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details.

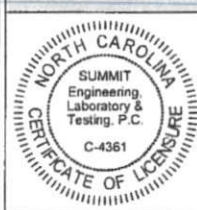
**WOOD STRUCTURAL PANELS:**

- Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA standards.
  - All structurally required wood sheathing shall bear the mark of the APA.
  - Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information. Sheathing shall be applied with the long direction perpendicular to framing, unless noted otherwise.
  - Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 8" O.C. at panel edges and at 12" O.C. in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel and joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
  - Wood floor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ring nails at 5" O.C. at panel edges and at 12" O.C. in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T&G plywood or lumber blocking unless otherwise noted. Panel and joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
  - Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.
- STRUCTURAL FIBERBOARD PANELS:**
- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
  - Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information.
  - Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the AFA.



8/25/2020  
STRUCTURAL MEMBERS ONLY

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PROJECT  
Aubrey LH  
Coversheet  
CLIENT  
John Dove  
2516 Brook Crossing Circle  
Raleigh, NC 27606

CURRENT DRAWING  
DATE: 6/24/2020  
SCALE: 1/8"=1'-0"  
PROJECT #: 2672-12R 20246  
DRAWN BY: LBY  
CHECKED BY: LAG

ORIGINAL INFORMATION  
PROJECT # DATE  
28246 6/23/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS2



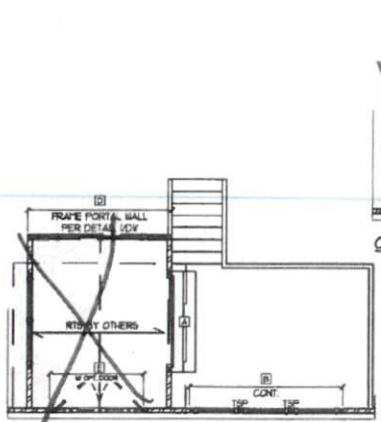




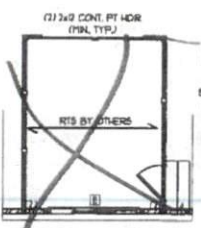


**GENERAL STRUCTURAL NOTES**

- CONSTRUCTION SHALL CONFORM TO 2009 NC RESIDENTIAL BUILDING CODE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWINGS FOR THIS SPECIFIC PROJECT. ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACINGS REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
- PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS:  
 FRAGILLARY (MVA)  $F_v = 2600$  PSI,  $F_r = 280$  PSI,  $E = 15000$  PSI  
 PARALLEL (MVA)  $F_v = 2000$  PSI,  $F_r = 250$  PSI,  $E = 12000$  PSI
- ALL ROOF MEMBERS SHALL BE 9" STP UNLESS NOTED ON PLAN.
- ALL RUD COLUMNS AND JOISTS SHALL BE 9" STP (MCI).
- ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 # 9 STP STUD COLUMN AT EACH END UNLESS NOTED OTHERWISE.
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER NC RESIDENTIAL BUILDING CODE 2009 SECTION 480.6. 1/2" DIA. BOLTS SPACED AT 8'-0" CENTERS WITH A 1" FINISH IF EMBEDDED INTO FOOTING OR CONCRETE. ANCHOR BOLTS SHALL BE 2" FROM THE END OF EACH PLATE SECTION PERMUT (2) ANCHOR BOLTS PER PLATE SECTION.
- POSITIVE AND NEGATIVE WALL CLADDING DESIGN VALUES FOR 160 PSF CATEGORY B, AND 170H PSF OR LESS ARE B3 AND 246 RESPECTIVELY.
- CONTRACTOR TO PROVIDE LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
- FLOOR BEAMS, 4-PLY LVL'S AND 3-PLY SIDE LOADED LVL'S SHALL BE BOLTED TOGETHER WITH 1/2" DIA. THRU BOLTS SPACED AT 24" O.C. (THRU STAGGERED). FIN EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED A FINISH 6" FROM EACH END OF THE BEAM. EQUIVALENT SCHEM MAY BE SUBMITTED PER MANUFACTURER'S SPECIFICATIONS.
- ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 STP #2, DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH ANCHOR WITH MORE THAN 7'-0" OF CRIPPLE WALL ABOVE SHALL BE (2) FLAT 2x4 STP #2, DROPPED (MCI).

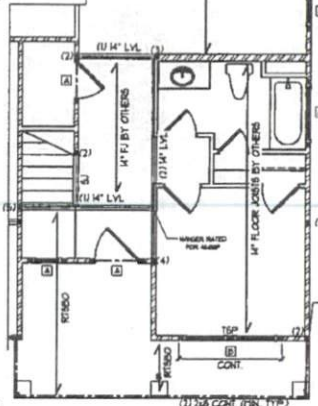


OPT. CONSERVATORY



OPT. SCREENED PORCH

4x4 PT. POSTS OR COL. RATED FOR 2600P (FIN. TYP.) ATTACH POSTS TO BAND w/ 50T C36 STRAPS OR (4) 1/2" HD NAILS ATTACH POSTS TO FND w/ 50T #20x44 POST BASE OR EQUIV. (TYP.)



OPT. BEDROOM I/O HOME OFFICE

4x4 PT. POSTS OR COL. RATED FOR 2600P (FIN. TYP.) ATTACH POSTS TO BAND w/ 50T C36 STRAPS OR (4) 1/2" HD NAILS ATTACH POSTS TO FND w/ 50T #20x44 POST BASE OR EQUIV. (TYP.)

ALL HEADERS WHERE BRICK IS USED, TO BE (1) Lintel (MCI)

**LINTEL SCHEDULE**

STEEL ANGLES TO HAVE FIN 4" BEARINGS ONTO BRICK AT EACH END.

- (1) 1x3x3/4"
- (2) 1x3x3/4"
- (3) 1x3x1/2x3/8"
- (4) 1x3x1/2x3/8" ROLLED OR EQUAL ANCHED COMPONENT

NOTE: JOIST & BEAM SIZES SHOWN ARE FINISH. BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

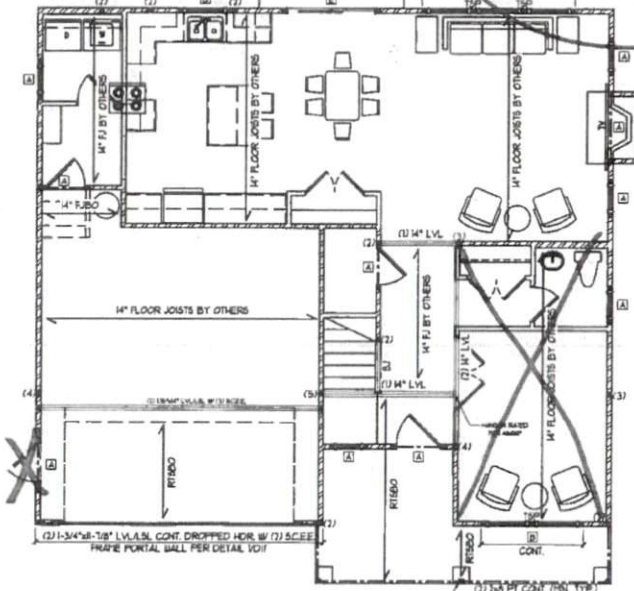
NOTE: SHADED WALLS INDICATED LOAD BEARING WALLS.

2ND STORY SHALL NOTE (BALCONY FRAMING) 2x4 STUDS @ 24" O.C. OR 2x6 STUDS @ 18" O.C. w/ CROSS BRACING @ 8'-0" O.C. VERTICALLY.

**HEADER SCHEDULE**

TAG	SIZE	JACKS (EED)
A	(2) 2x6	(2)
B	(2) 2x8	(2)
C	(2) 2x8	(2)
D	(2) 2x8	(2)
E	(2) 3-1/4" LVL LVL	(2)
F	(2) 2x6	(2)
G	(2) 2x8	(2)
H	(2) 2x8	(2)
I	(2) 2x8	(2)

- NOTES**
- HEADER SIZES SHOWN ON PLANS ARE FINISH. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.
  - ALL HEADERS TO BE DROPPED UNLESS NOTED OTHERWISE.
  - RUD COLUMNS NOTED ON PLAN OVERSIDE RUD COLUMNS LISTED ABOVE UNLESS NOTED OTHERWISE.
  - KNO STUDS SHALL BE FRAMED PER TABLE R602.3(9) (RENOTE if UNLESS NOTED OTHERWISE)



ELEVATION B

4x4 PT. POSTS OR COL. RATED FOR 2600P (FIN. TYP.) ATTACH POSTS TO BAND w/ 50T C36 STRAPS OR (4) 1/2" HD NAILS ATTACH POSTS TO FND w/ 50T #20x44 POST BASE OR EQUIV. (TYP.)

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY THESE MEMBERS. ALL COMPLETE/REVIEWED ON 02/05. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY ANY CHANGES TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. ENGINEER CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

**STRUCTURAL MEMBERS ONLY**

ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

STRUCTURAL ANALYSIS BASED ON 2019 NCBC.

**FIRST FLOOR FRAMING PLAN**

SCALE: 1/8" = 1'-0"

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 ENGINEERING LABORATORY TESTING  
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 FAX: 919.380.9993  
 WWW.SUMMIT-COMPANIES.COM



PROJECT: **Aubrey LH**  
**First Floor Framing**  
 CLIENT: **John Dove**  
**2516 Brook Crossing Circle**  
**Raleigh, NC 27606**

CURRENT DRAWING  
 DATE: 6/24/2020  
 SCALE: 1/8" = 1'-0"  
 PROJECT #: 2672-12R-28266  
 DRAWN BY: LSV  
 CHECKED BY: LAG

ORIGINAL INFORMATION  
 PROJECT # DATE  
 28266 6/23/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS



6/25/2020  
 STRUCTURAL MEMBERS ONLY

SHEET  
**S3.1**



PROJECT: **Aubrey LH**  
**Second Floor Framing**  
 CLIENT: **John Dove**  
**2516 Brook Crossing Circle**  
**Raleigh, NC 27605**

CURRENT DRAWING  
 DATE: 6/24/2020  
 SCALE: 1/8" = 1'-0"  
 PROJECT #: 2072-13A 28266  
 DRAWN BY: LBV  
 CHECKED BY: LAG

ORIGINAL INFORMATION  
 PROJECT # DATE  
 28266 6/23/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET  
**S4.1**

HEADER SCHEDULE		
TAG	SIZE	JACKS (EQ)
(A)	(2) 2x6	(1)
(B)	(2) 2x6	(2)
(C)	(2) 2x8	(2)
(D)	(2) 2x2	(2)
(E)	(2) 8-1/4" LBL.VL.	(3)
(F)	(3) 2x6	(1)
(G)	(3) 2x6	(2)
(H)	(3) 2x8	(2)
(I)	(3) 2x2	(3)

**NOTES**  
 1. HEADER SIZES SHOWN ON PLANS ARE MINIMUM. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.  
 2. ALL HEADERS TO BE DROPPED UNLESS NOTED OTHERWISE.  
 3. GRID COLLARS NOTED ON PLAN OVERRIDE GRID COLLARS LISTED ABOVE UNLESS NOTED OTHERWISE.  
 4. KING STUDS SHALL BE PROVIDED PER TABLE 16A(2)(3) UNLESS NOTED OTHERWISE.

ALL HEADERS WHERE BRICK IS USED, TO BE (1) Lintel (MIN.)

**LINTEL SCHEDULE**  
 STEEL ANGLES TO HAVE MIN. 4" BEARING ONTO BRICK AT EACH END.  
 (1) L3x3x1/4"  
 (2) L3x3x3/4"  
 (3) L3x3-1/2x3/8"  
 (4) L3x3-1/2x3/8" ROLLED OR EQUAL ANGLED COMPONENT.

NOTE: JOIST & BEAM SIZES MIGHT BE 1/2" MIN. BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

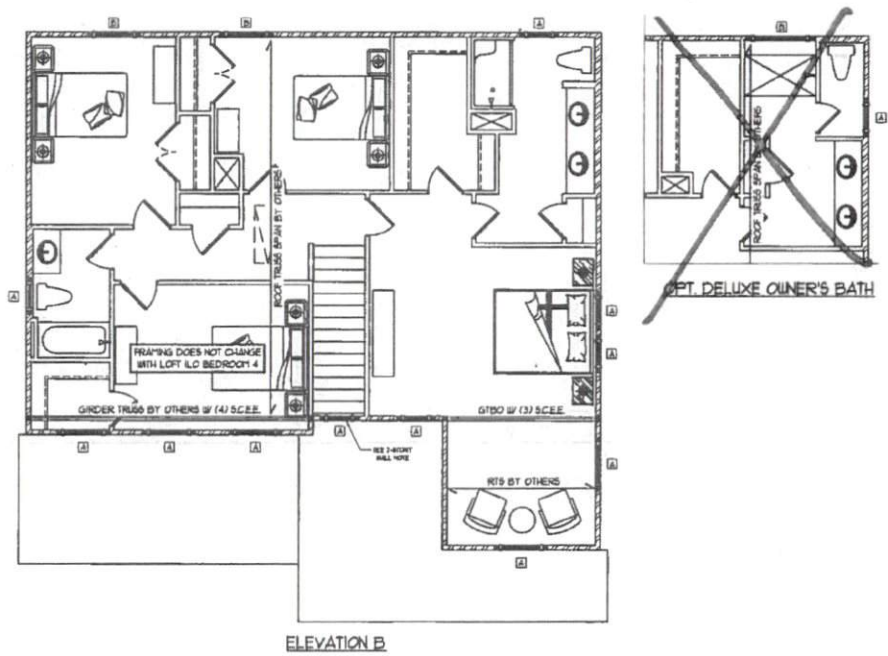
NOTE: SHADED BALLS INDICATED LOAD BEARING WALLS.

2ND STORY SHALL NOTE (ALL) COR FRAMING 2x4 STUDS = 8" O.C. OR 2x6 STUDS = 16" O.C. W/ CROSS BRACING = 8'-0" O.C. VERTICALLY.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY THE CLIENT. ALL COMPLETED/REVIEWED ON 5/20/20. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

**STRUCTURAL MEMBERS ONLY**  
 ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

STRUCTURAL ANALYSIS BASED ON 2018 NCBC.  
**SECOND FLOOR FRAMING PLAN**  
 SCALE: 1/8" = 1'-0"



**SEAL**  
 046048  
 ENGINEER  
 BRIAN C. PHILBRICK, JR.  
 6/25/2020  
 STRUCTURAL MEMBERS ONLY

NOTES: 1) PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (IND)

NOTES: 2) ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DOWN WALLS (IND)

**TRUSS GIRDER TRUSS REACTION LINES**

NO. TRUSS TOP PLATE		
# OF PLYS	3/4" WALL	2" WALL
2	8D4	7D5
3	7D5	6D6
4	6D6	5D7

MIN. TRUSS TOP PLATE		
# OF PLYS	3/4" WALL	2" WALL
2	8D4	7D5
3	7D5	6D6
4	6D6	5D7

GIRDER TRUSS PLYS SHOWN ARE FOR ILLUSTRATION ONLY. PLEASE REFER TO TRUSS LAYOUT DRAWING PROVIDED BY TRUSS MANUFACTURER FOR ACTUAL NUMBER OF PLYS NEEDED.

**TRUSS UPLIFT CONNECTOR SCHEDULE**

TRUSS UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO FND
1000 LBS	12EA	PER WALL BEARING PARTITION	
2000 LBS	(2) 12EA	CRS (IND + P)	(2) 12EA
3000 LBS	(3) 12EA	CRS (IND + P)	(3) 12EA
4000 LBS	(4) 12EA	CRS (IND + P)	(4) 12EA
5000 LBS	(5) 12EA	CRS (IND + P)	(5) 12EA
6000 LBS	(6) 12EA	CRS (IND + P)	(6) 12EA

- ALL PRODUCTS LISTED ARE APPROX. EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.
- UPLIFT VALUES LISTED ARE FOR RPT # 1000 PER TRUSS.
- REFER TO TRUSS LAYOUT FOR FRAME FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS. CONNECTIONS SPECIFIED BY TRUSS MANUFACTURER OTHERWISE THOSE LISTED ABOVE.
- CONTACT SUPPLIER FOR REQUIRED CONNECTIONS WHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION 1605.00. WALL BEARINGS AND PARTITIONS HAVE BEEN DIMENSIONED TO RESIST THE END UPLIFT LOAD PER RPT # 1000 IN ACCORDANCE WITH SECTION 3 OF SECTION 1605.00 OF THE 2015 IBC. REFER TO TRUSS LAYOUT FOR BEARINGS AND PARTITION DIMENSIONS.

REFER TO DETAIL ROOF FOR EXTERNAL RETURN OR SLOPE ROOF FINISH REQUIREMENTS. (TYP FOR ROOF FINISHING PARTS) 34' FROM STRUCTURE.

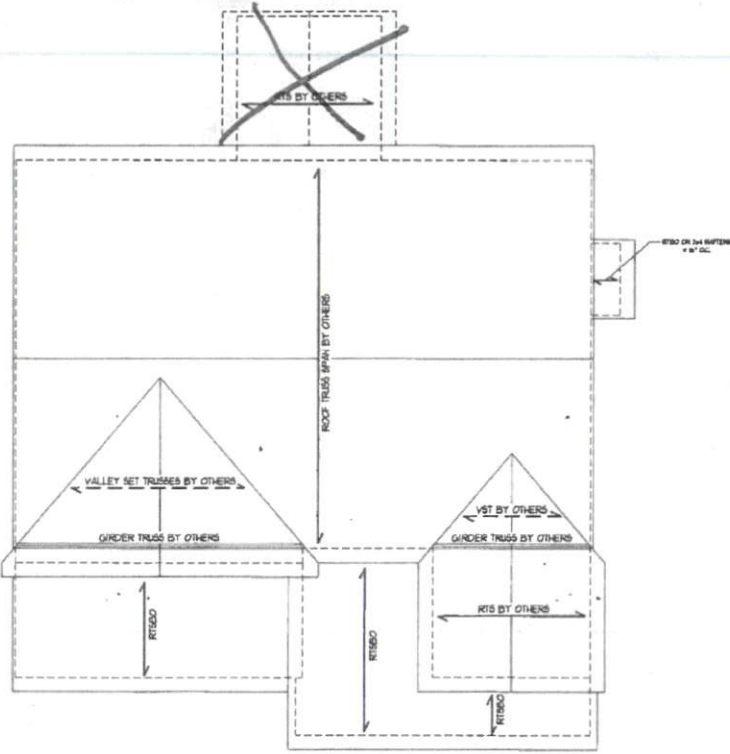
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STRUCTURAL ANALYSIS BASED ON 2015 NCBC.

**ROOF FRAMING PLAN**  
 SCALE: 1/8"=1'-0"

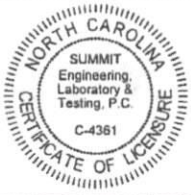
~~OPT. SCREENED PORCH / OPT. CONCRETE PATIO~~



ELEVATION B



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PROJECT: Aubrey LH  
 Roof Framing Plan  
 CLIENT: John Dove  
 2516 Brook Crossing Circle  
 Raleigh, NC 27606

CURRENT DRAWING  
 DATE: 6/24/2020  
 SCALE: 1/8"=1'-0"  
 PROJECT #: 2572-12R 28266  
 DRAWN BY: LSV  
 CHECKED BY: LAG

ORIGINAL INFORMATION  
 PROJECT #: 28266  
 DATE: 6/23/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET  
**S5.1**

STRUCTURAL MEMBERS ONLY



REQUIRED BRACED WALL PANEL CONNECTIONS				
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION	
			* PANEL EDGES	* INTERMEDIATE SUPPORTS
CS-SEP	WOOD STRUCTURAL PANEL	3/8"	4d COPPER NAILS @ 6" O.C.	4d COPPER NAILS @ 2' O.C.
GS	GYP/PLB BOARD	1/2"	3d COOLER NAILS @ 7" O.C.	3d COOLER NAILS @ 7" O.C.
SEP	WOOD STRUCTURAL PANEL	3/8"	4d COPPER NAILS @ 6" O.C.	4d COPPER NAILS @ 2' O.C.
FF	WOOD STRUCTURAL PANEL	3/8"	PER FIGURE (R402.3B)	PER FIGURE (R402.3B)

\*OR EQUIVALENT PER TABLE R402.3B

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH DETAIL 3 OF SECTION R402.3A.

INITIAL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R402.3A AND FIGURE (R402.3A.4) OF THE 2018 IBCRC.



**BRACED WALL NOTES**

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R402.3B FROM THE 2018 NORTH CAROLINA RESIDENTIAL CODE WITH APPLICABLE PERMISSIVE RULES.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS OF 150 MPH.
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R402.3E.
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 16 FEET FOR ISOLATED PANEL METHOD AND 8 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH 5/8"x11" 1/2" GYP/PLB BOARD (S&G).
- FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL WEATHABLE SURFACES INCLUDING WALL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARINGS SHALL BE PROVIDED WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- CORNERS AND BRACED WALL LINE INTERSECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R402.3B.1.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 3 FEET OF EACH CORNER OF EACH ELEVATION VIEW OF THE HOUSE OR EACH END OF THE OVERLAPPED RECTANGULARS.
- THE EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 24 FEET.
- ADEQUATE CONTINUOUS LOAD PATHS FOR TRANSFER OF BRACING LOADS AND UPLIFT LOADS SHALL COMPLY WITH SECTION R402.3A.
- MASONRY OR CONCRETE STRIP WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R402.3A.3.
- BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R402.3A.4.
- BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R402.3A.5.
- CRIPPLE WALLS AND BALK OUT BARS/STAY WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R402.3A.6.
- BALLOON FRAMED WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R402.3A.8 WITH A MAXIMUM LENGTH OF 36 FEET.
- PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE (R402.3A.9).
- ON SCHEMATIC, SHADDED WALLS INDICATE BRACED WALL PANEL AREAS.
- ABBREVIATIONS:
 

GS - GYP/PLB BOARD	SEP - WOOD STRUCTURAL PANEL
CS-300K - CONT. SHEATHED	ENG - ENGINEERED SOLUTION
FF - PORTAL FRAMED	

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY THESE MEMBERS. AS COMPLETED/REVISED ON 05/20/20. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING LABORATORY & TESTING, P.C. DOES NOT GUARANTEE THE ACCURACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

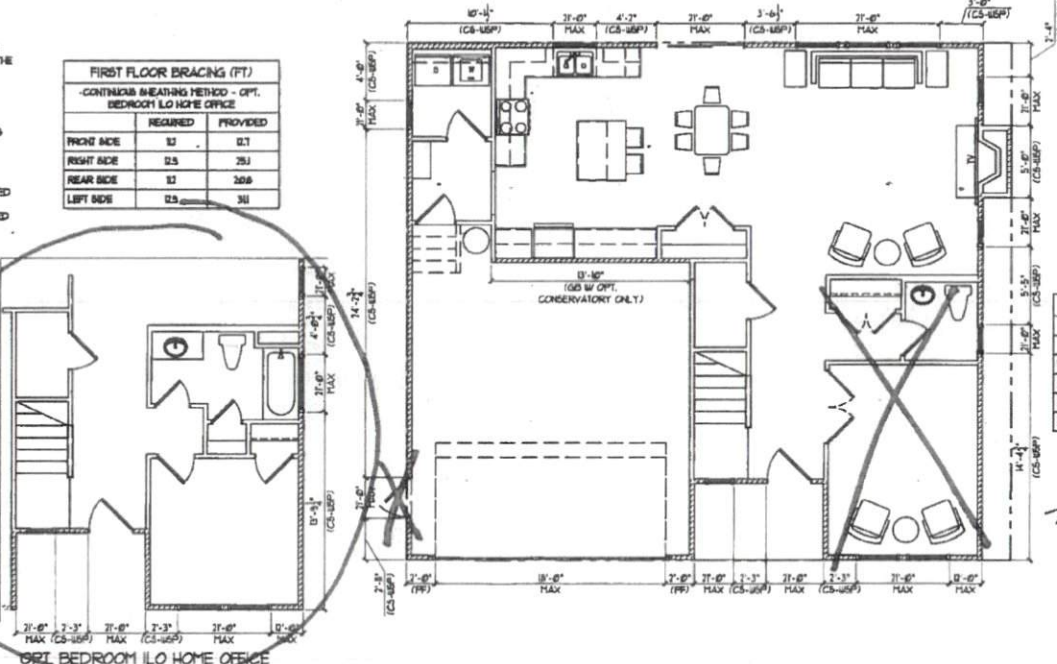
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**STRUCTURAL ANALYSIS BASED ON 2018 IBCRC**

**FIRST FLOOR BRACING PLAN**  
SCALE: 1/8"=1'-0"

FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD - OPT. BEDROOM LO HOME OFFICE		
	REQUIRED	PROVIDED
FRONT SIDE	02	02
RIGHT SIDE	02	25
REAR SIDE	02	26B
LEFT SIDE	02	30



FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD - OPT. CONSERVATORY		
	REQUIRED	PROVIDED
FRONT SIDE	14.6	15.6
RIGHT SIDE	02	27.1
REAR SIDE	14.6	27.4
LEFT SIDE	02	



FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD		
	REQUIRED	PROVIDED
FRONT SIDE	02	02
RIGHT SIDE	02	27.1
REAR SIDE	02	26B
LEFT SIDE	02	30

Professional Engineer Seal for Brian C. Philbrick, Jr., License No. 046048, State of North Carolina. Date: 5/25/2020.

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PROJECT: Aubrey LH  
First Floor Bracing  
CLIENT: John Dove  
2516 Brook Crossing Circle  
Raleigh, NC 27606

CURRENT DRAWING  
DATE: 6/24/2020  
SCALE: 1/8"=1'-0"  
PROJECT #: 2672-12R-28266  
DRAWN BY: LBV  
CHECKED BY: LAG

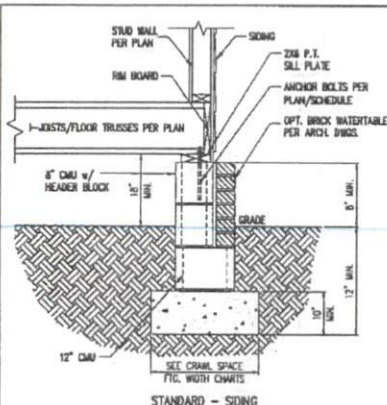
ORIGINAL INFORMATION  
PROJECT #: 28266  
DATE: 6/23/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

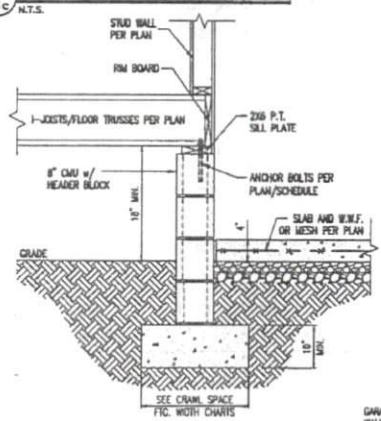
SHEET  
**S7.0**





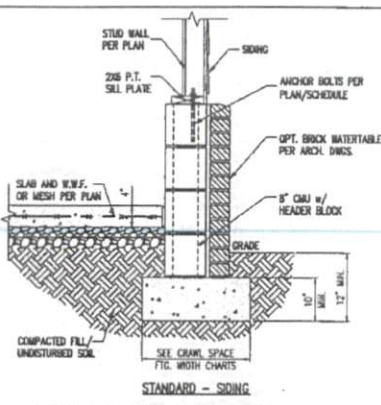


1 TYP. FOUNDATION WALL DETAIL  
D1c N.T.S.

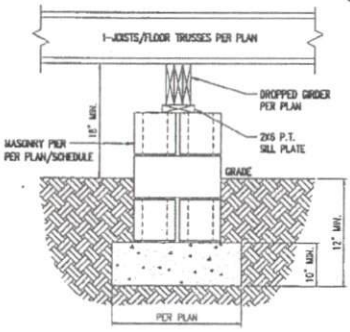


3 HOUSE/GARAGE WALL DETAIL  
D1c N.T.S.

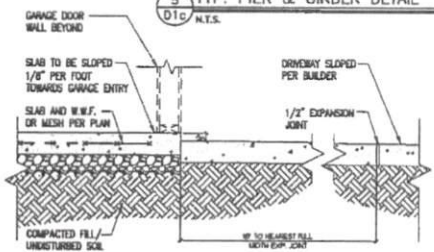
VERTICAL REBAR SHALL BE INSTALLED IN WALLS WITH GREATER THAN 4'-0" OF UNBALANCED FILLED SHALL HAVE VERTICAL REINFORCING BARS. REINFORCEMENT SHALL BE SIZED AND SPACED IN ACCORDANCE WITH TABLE 404.1.1(4) BASED ON SITE CONDITIONS. HORIZONTAL LADDER REINFORCEMENT SHALL BE INSTALLED BETWEEN CMU COURSES AS REQUIRED.



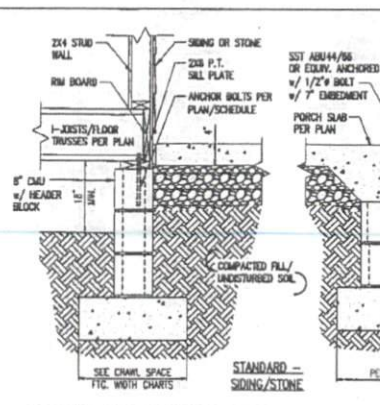
2 TYP. GARAGE CURB DETAIL  
D1c N.T.S.



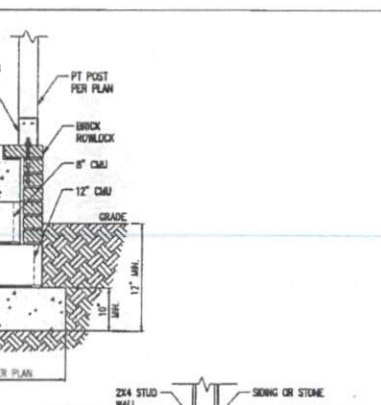
5 TYP. PIER & GIRDER DETAIL  
D1c N.T.S.



4 SLAB AT GARAGE DOOR  
D1c N.T.S.



6 TYP. FRONT PORCH DETAIL  
D1c N.T.S.



4 DECK ATTACHMENT DETAIL  
D1c N.T.S.

PIER SIZE AND HEIGHT SCHEDULE

SIZE	HOLLOW	SOLID
6"x6"	UP TO 3'-0" HEIGHT	UP TO 5'-0" HEIGHT
12"x6"	UP TO 4'-0" HEIGHT	UP TO 8'-0" HEIGHT
16"x16"	UP TO 8'-0" HEIGHT	UP TO 12'-0" HEIGHT
24"x24"	UP TO 16'-0" HEIGHT	UP TO 12'-0" HEIGHT

\*4) #4 CONT. REBAR w/ #3 STIRRUPS @ 16" O.C. AND 24" MIN. LAP JOINTS

CRAWL SPACE FOOTING WIDTH

# OF STORES	WIDTH BASED ON SOIL BEARING CAPACITY		
	1500 PSF	2000 PSF	2500 PSF
1 STORY - STEEL	18"	18"	18"
1 STORY - BRICK VENEER	21"	21"	21"
2 STORY - STEEL	18"	18"	18"
2 STORY - BRICK VENEER	21"	21"	21"
3 STORY - STEEL	23"	18"	18"
3 STORY - BRICK VENEER	32"	24"	24"

\*5" BRICK LEDGE HAS BEEN ADDED TO THE CRAWL SPACE FOOTING WIDTH FOR BRICK SUPPORT

WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC. EMBEDMENT	SPACING	INTERIOR WALL	EXTERIOR WALL
1/2" # A307 BOLTS w/ 5/8" W/F HORIZ	7"	6'-0"	YES	YES
1/2" # WIRELASS ROD w/ w/ SST SET-UP EPOXY	7"	6'-0"	YES	YES
1/2" # SST TITAN HD	4-1/2"	4'-0"	YES	YES

NOTE:  
1) INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.  
2) EQUIVALENT ANCHORS MAY BE USED. SIZE & SPACING PER MANUF. SPECS.

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PROJECT: Aubrey LH  
CLIENT: John Dove  
2516 Brook Crossing Circle  
Raleigh, NC 27606

CURRENT DRAWING  
DATE: 6/24/2020  
SCALE: 1/8"=1'-0"  
PROJECT #: 2672-12R 26266  
DRAWN BY: LSV  
CHECKED BY: LAG

REVISION INFORMATION  
PROJECT # DATE  
26266 6/23/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS



6/25/2020  
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D1c



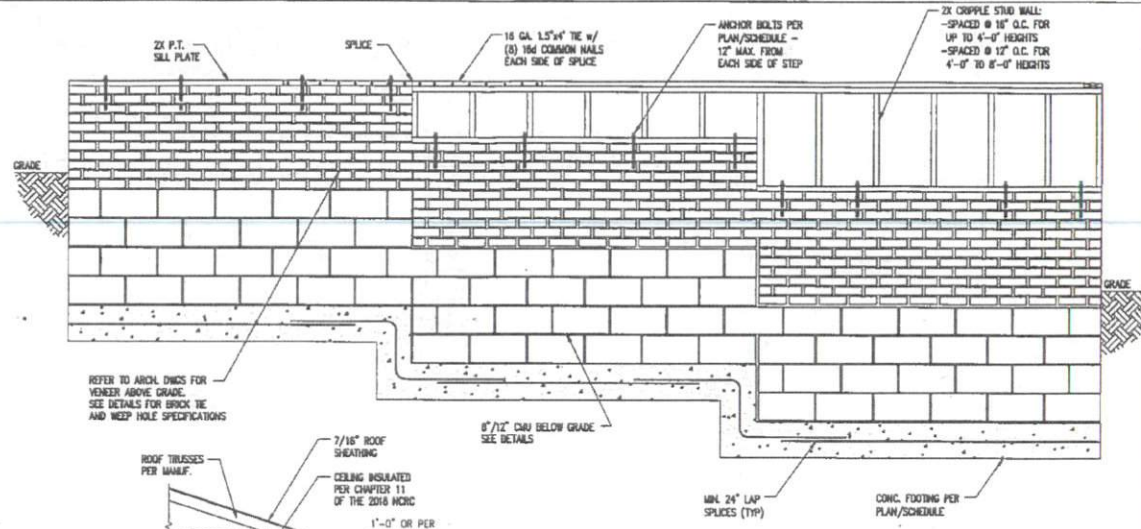
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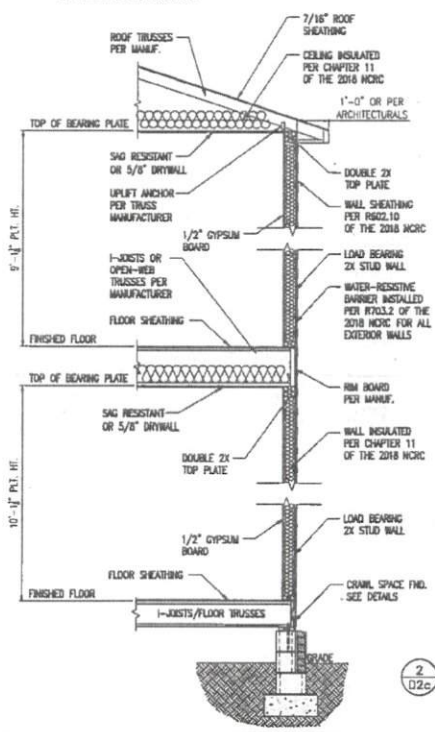
PROJECT  
**Aubrey LH**  
 Crawl Space Foundation Details  
 CLIENT  
**John Dove**  
 2516 Brook Crossing Circle  
 Raleigh, NC 27606

CURRENT DRAWING  
 DATE: 6/24/2020  
 SCALE: 1/8"=1'-0"  
 PROJECT #: 2672-12R-26266  
 DRAWN BY: LSV  
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 ORIGINAL INFORMATION  
 PROJECT # DATE  
 26266 6/23/20  
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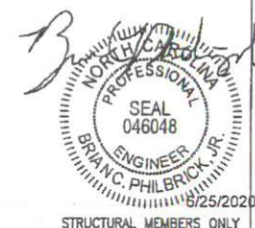
SHEET  
**D2c**



**3**  
 D2c  
 TYP. STEPPED FOUNDATION WALL DETAIL  
 N.T.S.

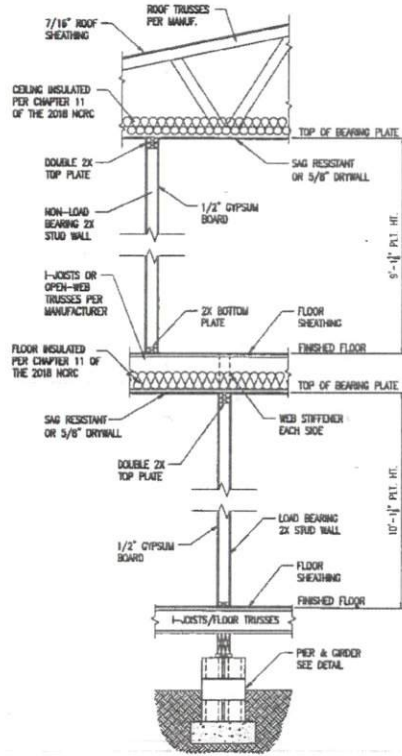


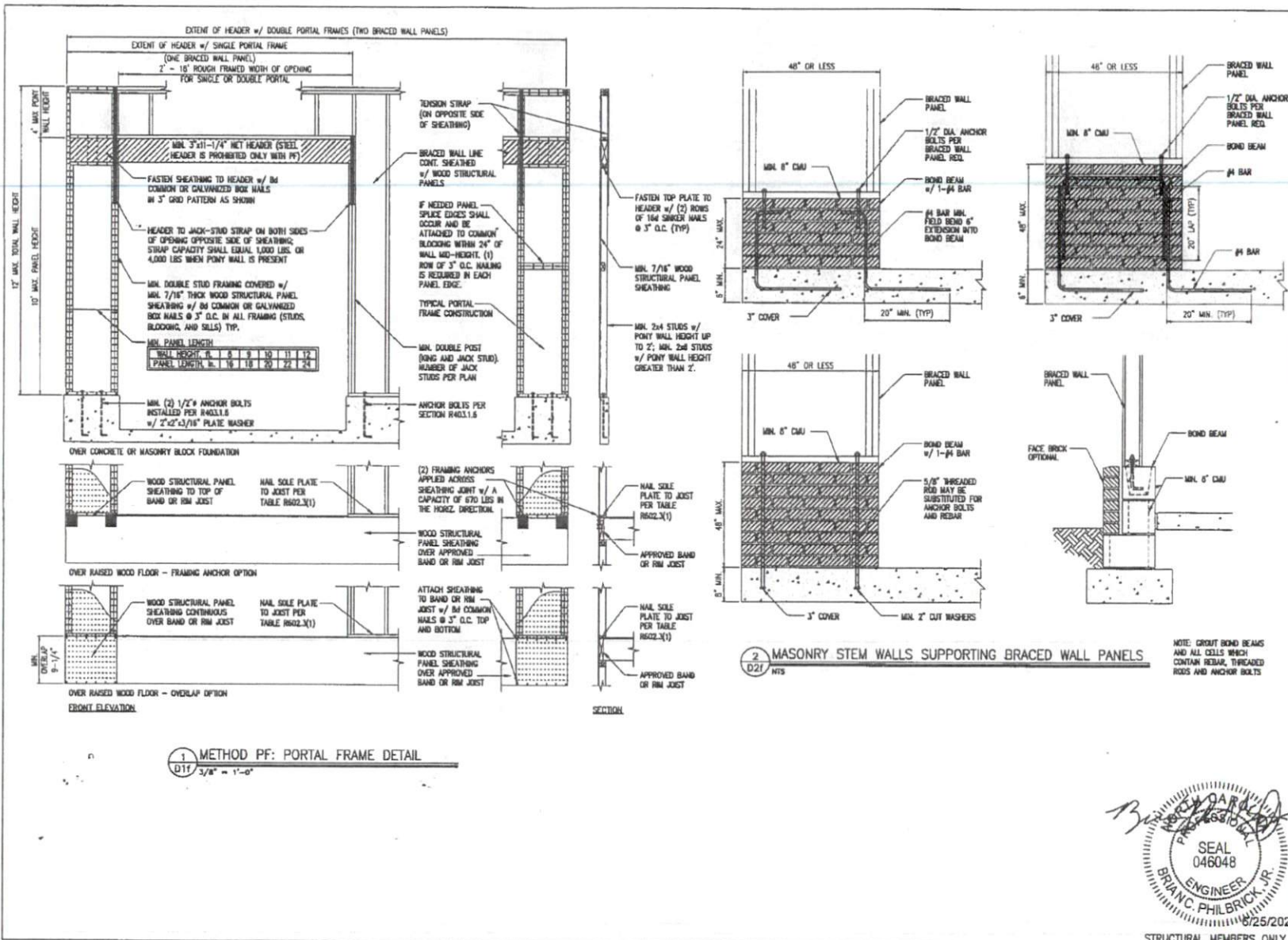
**2**  
 D2c  
 TYP. EXTERIOR LOAD BEARING WALL SECTION  
 3/4" = 1'-0" -SIMILAR w/ BRICK AND STONE  
 -BRICK TIES SPACED @ 24" O.C. HORIZ. & 16" O.C. VERT.  
 -MIN. 3/16" DEEP HOLES @ 32" O.C.



8/25/2020  
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**1**  
 D2c  
 TYP. INTERIOR LOAD BEARING WALL SECTION  
 3/4" = 1'-0"





1 METHOD PF: PORTAL FRAME DETAIL  
 D11 3/8" = 1'-0"

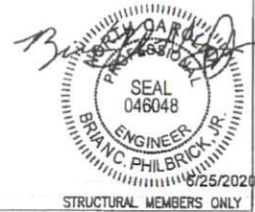
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PROJECT: **Aubrey LH Framing Details**  
 CLIENT: **John Dove**  
 2516 Brook Crossing Circle  
 Raleigh, NC 27606

CURRENT DRAWING  
 DATE: 6/24/2020  
 SCALE: 1/8" = 1'-0"  
 PROJECT #: 2672-12R-28266  
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