# WILLOW ELEVATION B



# PRINCE PLACE LOT 69

MAIN STREET REVI Main Street Designs of Georgia, LLC www.MainStreetDesigns LLC.com 3650 Royal Block, South, Suite 135 Aphanenta, CA 300.2222 O (404) 996-5722



SHEET

COVER

**CS-1.0** 

WILLOW

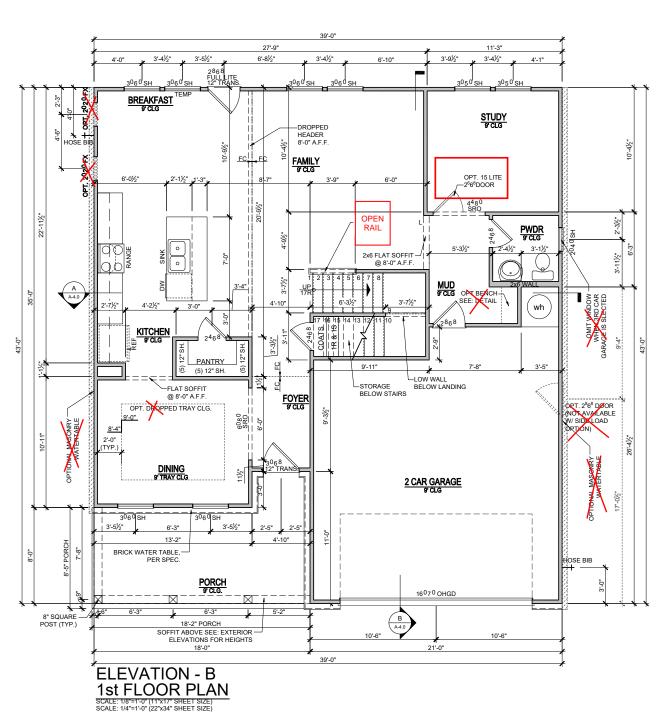
INCLUDED OPTIONS:

1st FLOOR
FIREPLACE
FRENCH DOOR @ STUDY
OPEN RAIL
2nd FLOOR
OWNERS SPA SHOWER
SECOND SINK @ BATH 2

WILLOW BASE HOUSE SQUARE FOOTAGE CALCULATIONS						TOTAL
ELEVATIONS	1st FL∩∩R	2nd FLOOR	TOTAL FIN	FRONT	GARAGE	UNDER
LLLVATIONS	130110010	ZIId I LOOK	IOIALIIN	PORCH	GANAGE	ROOF
ELEV. B	1053 s.f.	1287 s.f.	2340 s.f.	159 s.f	466 s.f.	2,965 s.f.

# PRINCE PLACE LOT 69





ELEVATION "A - C"

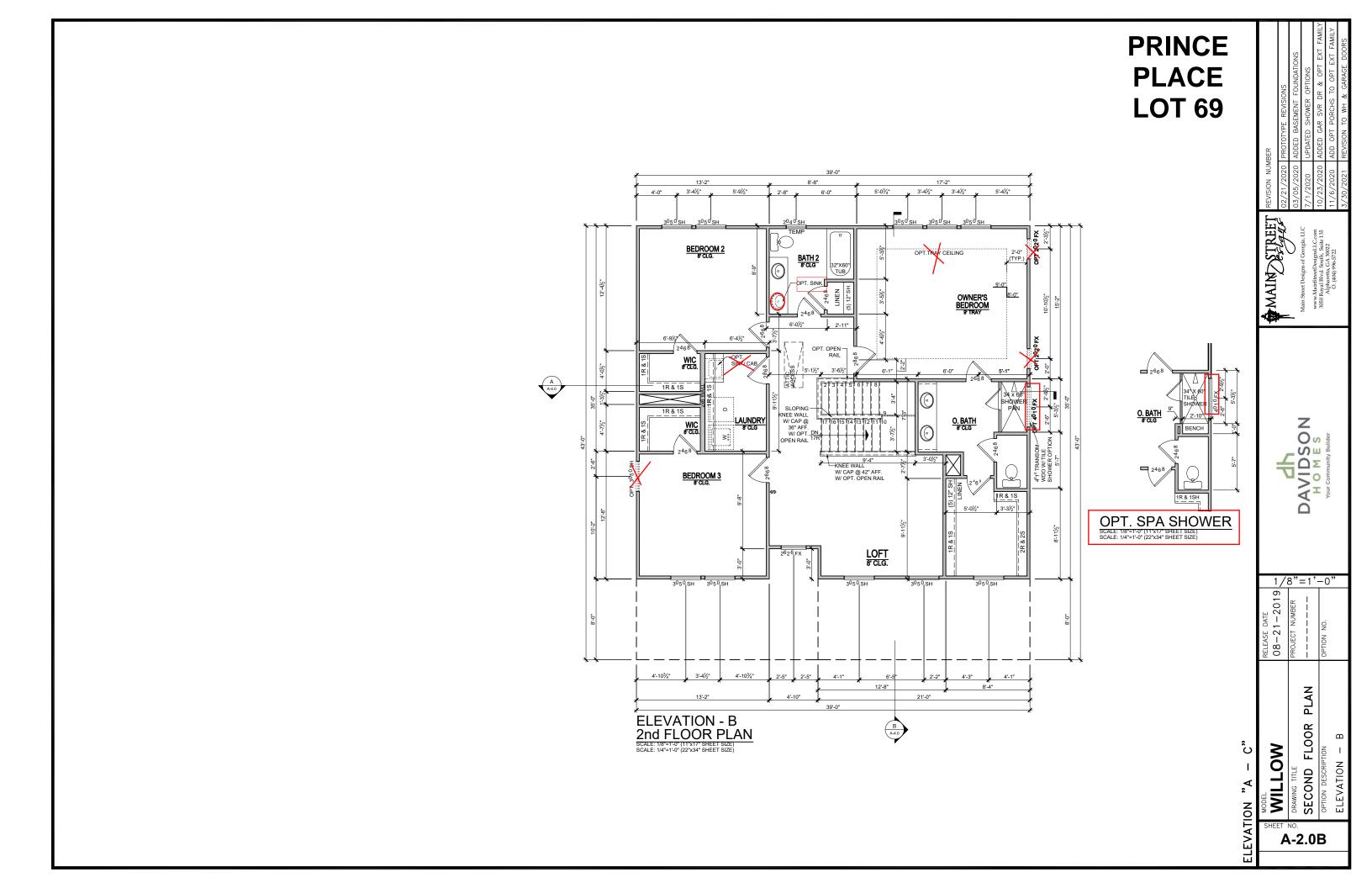
WILLOW	DRAWING TITLE	FIRST FLOOR PLAN	OPTION DESCRIPTION	ELEVATION - B
A-1.0B				

DAVIDSON HOMES

1/8"=1'-0"

RELEASE DATE 08-21-2019

MAIN STREET



# MAIN ROOF 10:12 10:12 10:12 10:12 AREA 2 **WILLOW ELEVATION -B- ROOF PLAN** SCALE: 1/16"=1'-0" (11"X17" SHEET SIZE) SCALE: 1/8"=1'-0" (22"X34" SHEET SIZE)

#### ATTIC VENT CALCULATIONS

#### NOTES:

GENERAL CONTRACTOR SHALL VERIFY THE NET FREE GENERAL CONTRACTOR SHALL VERIFY THE NET FREE VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER. VERIFY WITH MANUFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIMUM CALCULATED VENTS REQUIRED. THE REQUIRED VENTILATION SHALL BE MAINTAINED. PROVIDE INSULATION STOP SUCH THAT INSULATION DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REQUIRED.

ALL OVERLAP FRAMED ROOF AREAS SHALL HAVE

OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF SHEATHING (AS ALLOWED BY THE STRUCTURAL ENGINEER) TO ALLOW PASSAGE AND ATTIC VENTILATION BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL BE VENTED INDEPENDENTLY TO CBC REQUIREMENTS.

PER DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE FRAMING PROJECTIONS THAT ARE SEPRATED FROM THE VENTING CALCULATIONS SHOWN ABOVE, PROVIDE A CONTINUOUS 2" CORROSION RESISTANT SOFFIT VENT AT UNDERSIDE OF FRAMED ELEMENT.

ALL ROOF DRAINAGE SHALL BE PIPED TO STREET OR APPROVED DRAINAGE FACILITY.

DASHED LINES INDICATE WALL BELOW.

LOCATE GUTTER AND DOWNSPOUTS PER BUILDER.

PITCHED ROOFS AS NOTED.

TRUSS MANUFACTURER SHALL SUBMIT STRUCTURAL CALCS AND SHOP DRAWINGS TO THE BUILDER'S GENERAL CONTRACTOR AND BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATIONS

ALL PLUMBING VENTS SHALL BE COMBINED INTO A MINIMUM AMOUNT OF ROOF PENETRATIONS. ALL ROOF PENETRATIONS SHALL OCCUR TO THE REAR OF THE MAIN RIDGE

2.250 SQ FT = 36.0 FEET OF SOFFIT VENT

ACTUAL SOFFIT VENT PROVIDED 22 FEET

### PORCH ROOF

159 SQ FT UNDER ROOF 150 SQ FT / 1 SQ FT = 1.06 SQ FT VENTILATION

1.060 SQ FT = 17.0 FEET OF SOFFIT VENT

ACTUAL SOFFIT VENT PROVIDED

### MAIN ROOF AREA 1

1350 SQ FT UNDER ROOF ATTIC 300 SQ FT / 1 SQ FT = 4.50 SQ FT VENTILATION

RIDGE VENTS 18 SQ IN = (.125 SQ FT) SOFFIT VENTS 9 SQ IN = (.0625 SQ FT) BOX VENTS 50 SQ IN = (.347 SQ FT)

4.50 SQ FT x 50% 2.250 SQ FT OF RIDGE 4.50 SQ FT x 50% 2.250 SQ FT OF SOFFIT

= 18.0 FEET OF RIDGE VENT

ACTUAL RIDGE VENT PROVIDED ACTUAL SOFFIT VENT PROVIDED NUMBER OF BOX VENTS NEEDED (REQ - ACTUAL x .347) 62 FEET 50 FEET -15.3 COUNT (NEGATIVE = 0)

#### AREA 2

168 SQ FT UNDER ROOF 150 SQ FT / 1 SQ FT = 1.12 SQ FT VENTILATION

SOFFIT VENTS 9 SQ IN = (.0625 SQ FT) ASSUME 100% VENTING @ SOFFIT

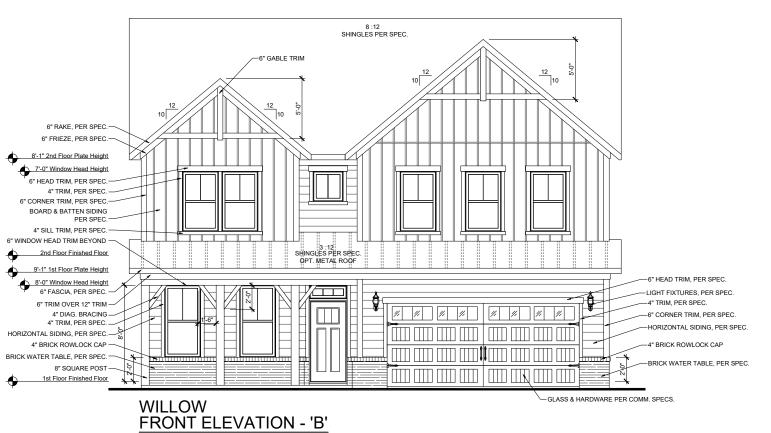
1.120 SQ FT = 17.9 FEET OF SOFFIT VENT

SOFFIT VENTS 9 SQ IN = (.0625 SQ FT) ASSUME 100% VENTING @ SOFFIT

SCALE: 1/8"=1'-0" (11"X17" SHEET SIZE) SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)

# **PLACE** 8 :12 SHINGLES PER SPEC. **LOT 69** -6" FASCIA, PER SPEC. —6" FRIEZE PER SPEC 8'-1" 2nd Floor Plate Height 7'-0" Window Head Height -4" CORNER TRIM PER SPEC HORIZONTAL SIDING, PER SPEC. 2nd Floor Finished Floor 9'-1" 1st Floor Plate Height 8'-0" Window Head Height

**WILLOW REAR ELEVATION** SCALE: 1/8"=1'-0" (11"X17" SHEET SIZE) SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)



1/8"=1'-0"ASE DATE -21-2019 NELEAS 08-LAN ROOF င် ELEV/ OPTION DESCRIPTI WILL ELEVATION A-3.0B

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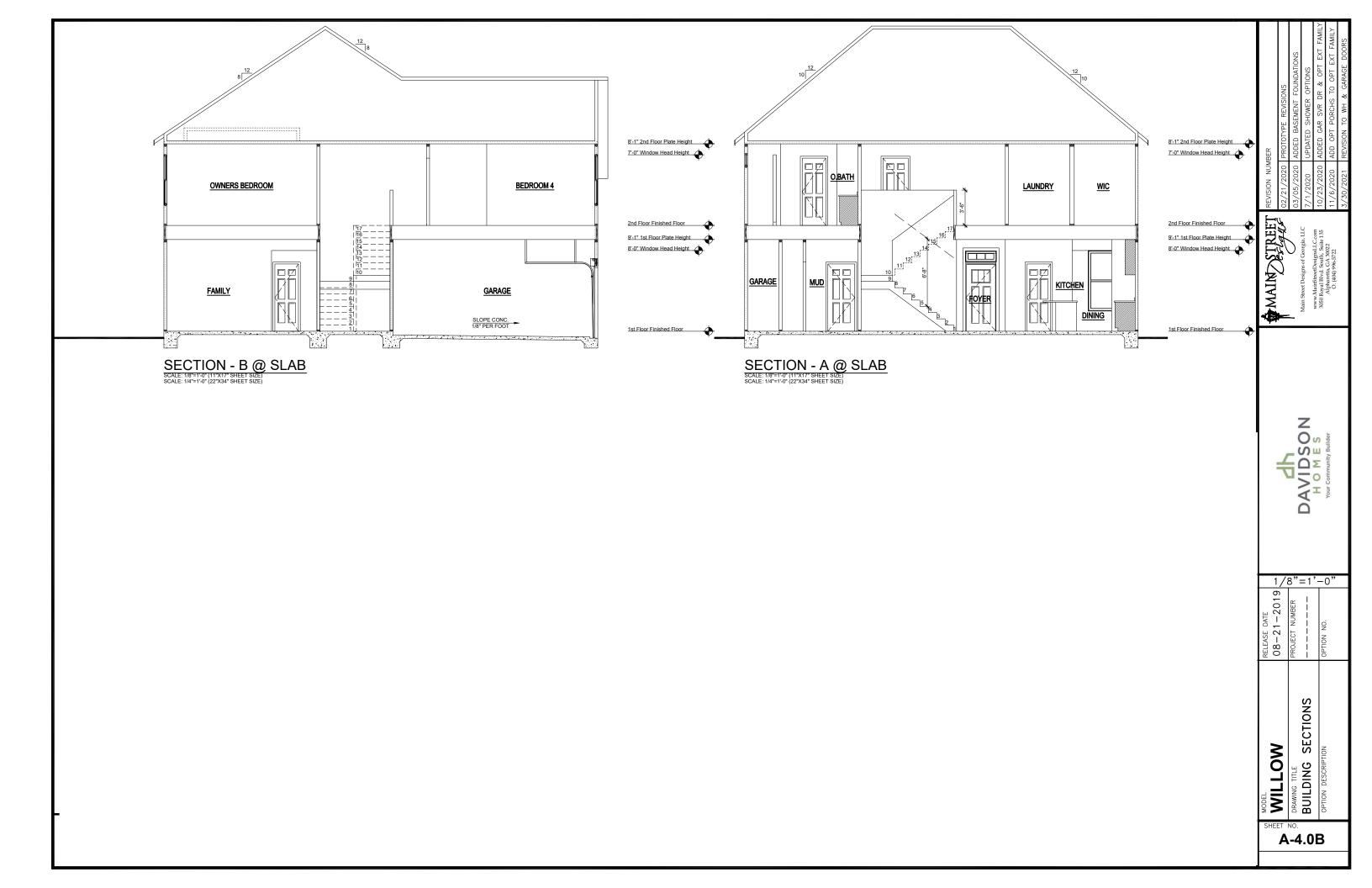
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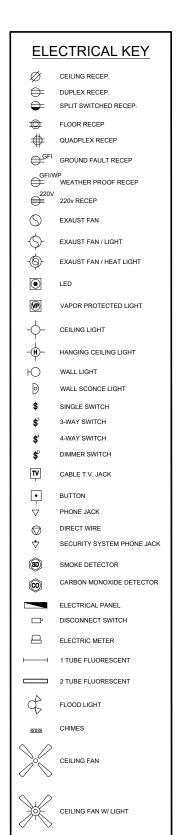
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**PRINCE** 

1st Floor Finished Floor

### **PRINCE PLACE LOT 69** OPTIONAL4010 TRANSOM WINDOW 10 :12 SHINGLES PER SPEC. -6" RAKE, PER SPEC. -6" FRIEZE, PER SPEC. 8'-1" 2nd Floor Plate Height 7'-0" Window Head Height MAIN STREET -OPTIONAL 2020 FIXED WINDOW 6" RAKE, PER SPEC. -6" FRIEZE, PER SPEC.-2nd Floor Finished Floor 9'-1" 1st Floor Plate Height 8'-0" Window Head Height 4" CORNER TRIM, PER SPEC. --4" CORNER TRIM. PER SPEC. HORIZONTAL SIDING, PER SPEC. --HORIZONTAL SIDING, PER SPEC. OPTIONAL MASONRY WATERTABLE 4" BRICK ROWLOCK CAP BRICK WATER TABLE, PER SPEC. -1st Floor Finished Floor OMIT WINDOW WHEN 3RD CAR CARAGEUS SLECTED WILLOW DAVIDSON HOMES RIGHT ELEVATION - 'B' SCALE: 1/8"=1-0" (12"X17" SHEET SIZE) SCALE: 1/4"=1-0" (22"X34" SHEET SIZE) 10 :12 SHINGLES PER SPEC. 10 :12 SHINGLES PER SPEC. 6" RAKE, PER SPEC. 1/8"=1'-0" 6" FRIEZE, PER SPEC. RELEASE DATE 08-21-2019 OPTIONAL 3050 SH WINDOW 8'-1" 2nd Floor Plate Height 7'-0" Window Head Height —6" RAKE, PER SPEC. ─6" FRIEZE, PER SPEC. 2nd Floor Finished Floor 9'-1" 1st Floor Plate Height OPTIONAL 2020 FIXED WINDOW ELEVATIONS 8'-0" Window Head Height 4" CORNER TRIM, PER SPEC. -4" DIAG. BRACING HORIZONTAL SIDING, PER SPEC. WODEL HORIZONTAL SIDING, PER SPEC. OPTIONAL MASONRY WATERTABLE -—4" BRICK ROWLOCK CAP -BRICK WATER TABLE, PER SPEC. ─8" SQUARE POST SIDE 1st Floor Finished Floor WILLOW BRICK FOUNDATION PER. COMM. SPECS. LEFT ELEVATION - 'B' A-3.1B SCALE: 1/8"=1'-0" (11"X17" SHEET SIZE) SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)





### PRINCE PLACE LOT 69

MAIN STREET

Z

AVIDSON ES

1/8"=1'-0"

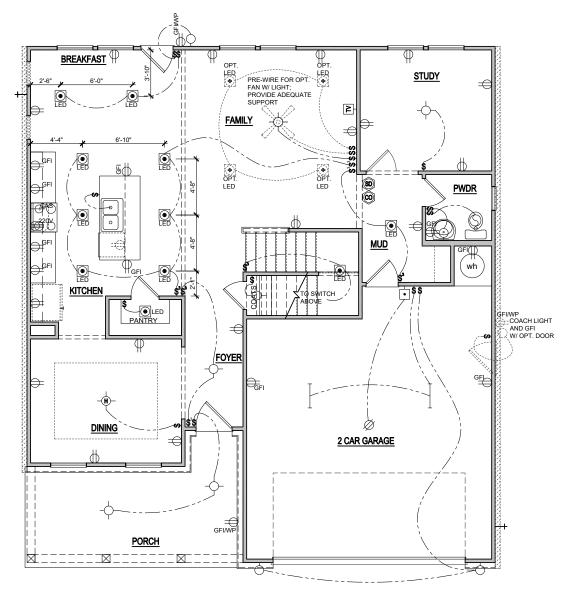
PLAN

ELEC.

FLOOR

RELEASE DATE 08-21-2019

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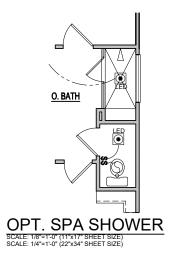
ELEVATION - B FIRST FLOOR ELECTRICAL PLAN SCALE: 1/8"=1-0" (127">SCALE: 1/8">SCALE: 1/8"=1-0" (127">SCALE: 1/8">SCALE: 1/8"=1-0" (127">SCALE: 1/8">SCALE: 1/8">SCALE: 1/8"=1-0" (127">SCALE: 1/8">SCALE: 1/8">S

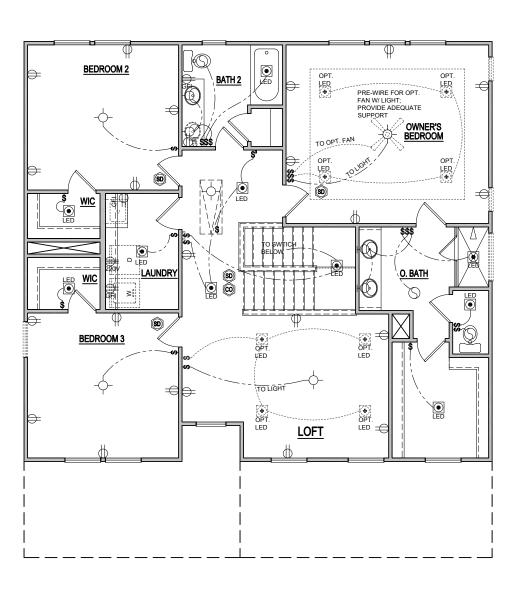
TION "A - C

MOPEL MODEL MODEL

E-1.0B

# PRINCE PLACE LOT 69





ELEVATION - B SECOND FLOOR ELECTRICAL PLAN SCALE: 1/8"=1"-0" (22"x34" SHEET SIZE) SCALE: 1/4"=1"-0" (22"x34" SHEET SIZE)

EVATION "A - C"

MILLOW

Project Number

Browning Title

SECOND FLOOR PLAN

OPTION DESCRIPTION

CHARLESE DATE

08-21-2019

CORDOR PLAN

OPTION NO.

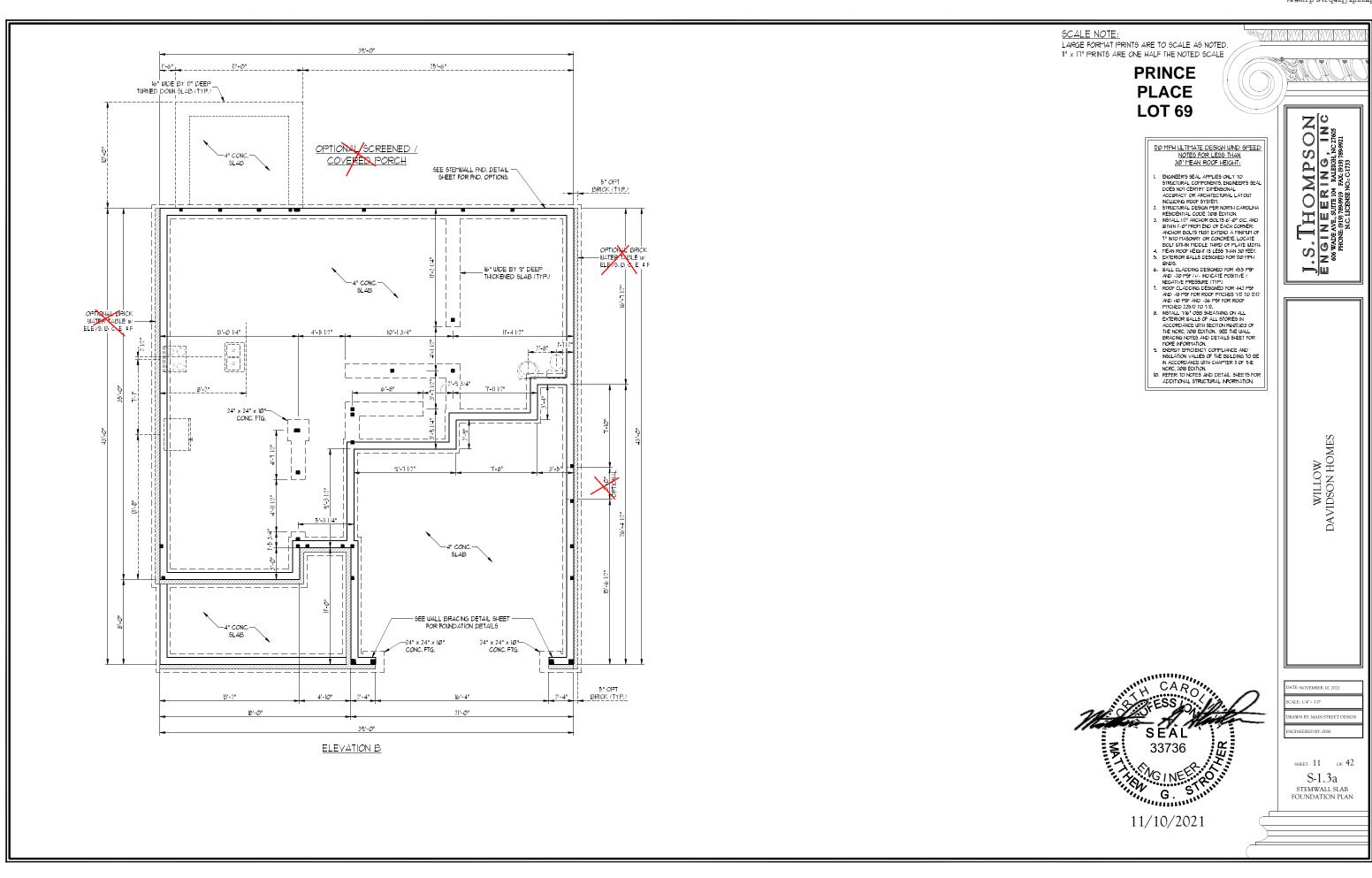
COTION NO.

COTION

DAVIDSON HOMES

1/8"=1'-0"

MAIN STREET



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THOMPSON
SINEERING, INC
NABANE, SUITE OF ALLICHOST PROPOSI
NC. LICENSE NO. C. (733)

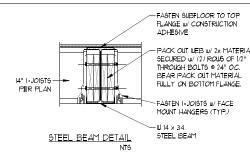
WILLOW DAVIDSON HOMES

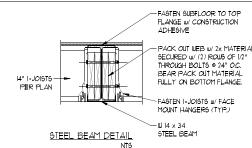
TE: JULY 17, 2021 Δ1 E: 1/4" = 1'.0" RAWN BY: MAIN STREE

SHEET: 23 OF: 41

S-3a SECOND FLOOR FRAMING PLAN

**PRINCE PLACE LOT 69** 





NOTE:

PACK OUT WEB w/ 2x MATERIAL

BRACED WALL DESIGN NOTES:

BCI 50008-18 JOISTS MAY BE USED IN LIEU OF TJI 210 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE PLANS.

BRACED WALL DESIGN PER SECTION R60210 OF THE NORC 2018 EDITION. CS-WSP REFERS TO "CONTINUOUS SHEATHING - WOOD

<u>SCALE NOTE:</u> LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. II" X IT" PRINTS ARE ONE HALF THE NOTED SCALE

CS-USP REPERS TO "CONTINUES SHEATHING - WOOD" STRUCTURED, PANELS" CONTRACTOR IS TO INSTALL THE" OSB ON ALL EXTERIOR WALLS ATTACHED W 8d NAILS SPACED 6" OC. ALONG PANEL EDGES AND 12" OC. IN THE FIELD.

"GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I VI" SCREWS OR I 5/8" NAILS SPACED TO OC.

FASTEN GB WITH I I I A" SCREWS OR I 5/8" NAILS SPACED " OC.
ALONG PARKE EDGES AND IN THE FIELD INCLUDING TOP AND
BOTTOM PLATES.
BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH.
FOR HIGH WIND ZONES BRACE WALLS ARE TO BE CONSTRUCTED
IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 2018 EDITION.

SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

BRACED WALL DESIGN

RECTANGLE A RECTANGLE B SIDE IA (FRONT LOAD)

METHOD: CS-WSP/GB/PF

SIDE 24 (OPT. EXTENSIONS) METHOD: CS-WSP SIDE 2B METHOD: CS-WSP TOTAL REQUIRED LENGTH: 12.71 TOTAL REQUIRED LENGTH: 257' TOTAL PROVIDED LENGTH: 120' TOTAL PROVIDED LENGTH: 15.88

SIDE 34 (SIDE LOAD) METHOD: CS-WSP/FF SIDE 3B METHOD: CS-WSP TOTAL REQUIRED LENGTH: 10.64" TOTAL REQUIRED LENGTH: 20'

TOTAL PROVIDED LENGTH: 26.15" TOTAL PROVIDED LENGTH: 19.33 SIDE 4B/3A COMBINED SIDE 4A

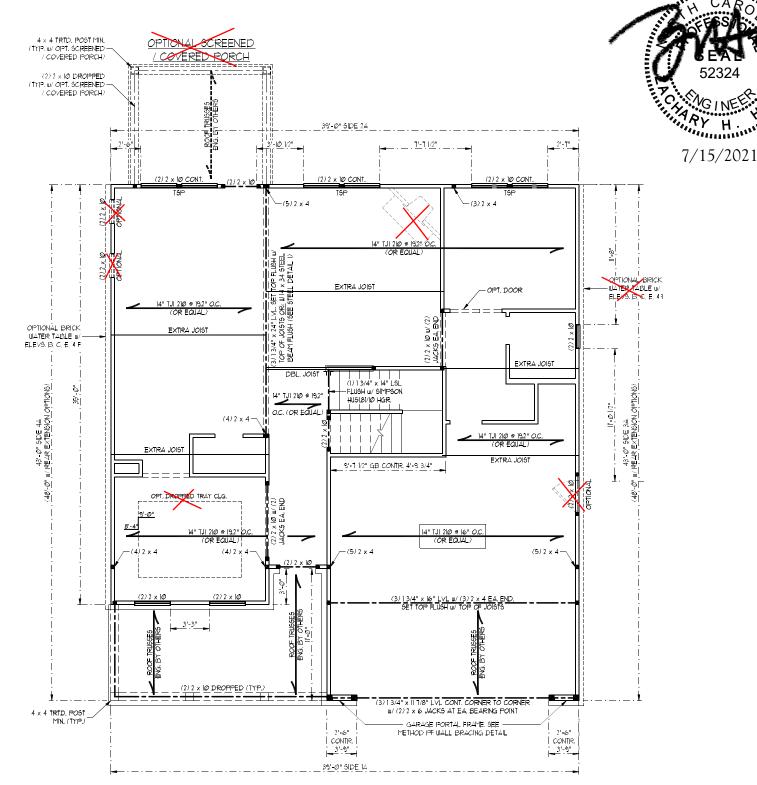
#### STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF 12 (UNO). ALL TREATED LUMBER TO BE SYP 12 (UNO.)
  ALL LOAD BEARING HEADERS TO BE (2) 2 × 6 SFF 112 OR SYP 112
- (KILN DRIED) (UNO), HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS, CODE TABLES HAVE NOT BEEN USED. INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR
- JOISTS WHERE NOTED ON THE PLANS.
- 4. WINDOW AND DOOR HEADERS TO BE SUPPORTED W/(1) JACK STUD AND (1) KING STUD EA. END (UNO.); SEE TABLE R602.1.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
  ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS W/ SIMPSON
- ABIL44 POST BASES (OR EQUAL) AND 6 x 6 POSTS W/ ABIL66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.)
- FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS, FASTEN ANGLES TO COLUMNS w/ 1/4" THROUGH BOLTS w/ NUTS AND WASHERS, LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION

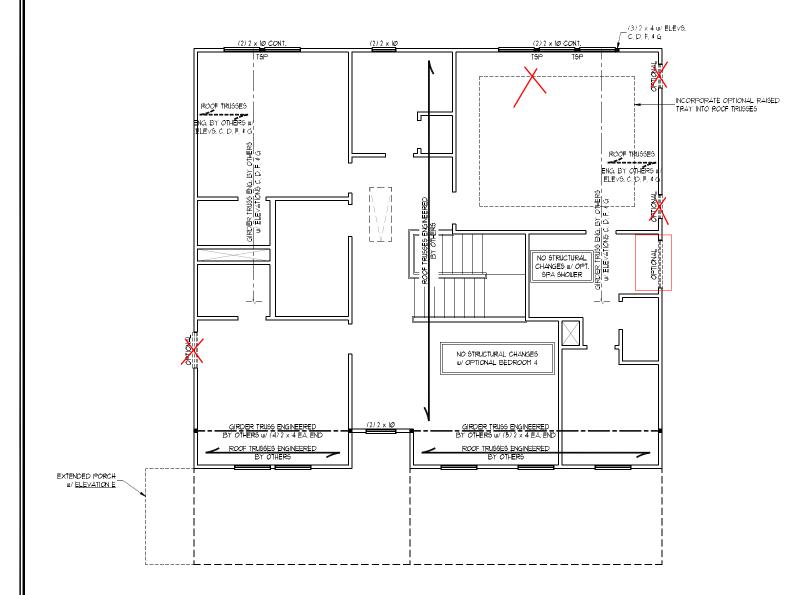
"TSP" INDICATES TRIPLE STUD POCKET BETWEEN WINDOW UNITS.

TABLE R6*02.*7.5 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WAI

AT EACH END OF HEADERS IN EXTERIOR WA					
HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES. (PER TABLE R602.3(5)				
( LL17	16	24			
UP TO 3'	1	1			
4'	2	1			
8'	3	2			
12'	5	3			
16'	6	4			



ELEVATION B



ELEVATIONS B & E

SCALE NOTE: Large format prints are to scale as noted. II" x IT" prints are one half the noted scale

## **PRINCE PLACE LOT 69**

#### BRACED WALL DESIGN NOTES:

- BR4CED WALL DESIGN PER SECTION R602.10 OF THE NORC 2018 EDITION CS-UBP REFERS TO "CONTINUOUS SHEATHING WOOD
- CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURE PANELS" CONTRACTOR IS TO INSTALL THE" 09'S ON ALL EXTERIOR WALLS ATTACHED W 84 NAILS SPACED 6" OC. ALONG PANEL EDGES AND 12" OC. IN THE FIELD. "GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" ("MIN) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I 1/4" SCREUS OR I 5/8" NAILS SPACED TO OC.
- FASTEN GB WITH 114" SCHEWS OR 15/8" NAILS 974CED 1" O.C.
  ALONG PAMEL EDGES AND IN THE FIELD INCLUDING TOP AND
  BOTTOM PLATES.
  BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 180 MPH.
  FOR HIGH WIND ZONES BRACE WALLS ARE TO BE CONSTRUCTED
  IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 20/8 EDITION.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

#### NOTE:

- PER SECTION 186021032 OF THE 2018 NGRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED
- 2. SHEATH ALL EXTERIOR WALLS WITH 1/16" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

#### STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 1/2 9PF
- ALL LOAD BEARING HEADERS TO BE
  (2) 2 x 6 (UNO).

  WINDOW AND DOOR HEADERS TO BE
- SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.15 FOR ADDITIONAL KING STUD REQUIREMENTS.

  SQUARES DENOTE POINT LOADS
- WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION, SQUARES
- TO BE (2) STUDS (UNO.) REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

"TSP" INDICATES TRIPLE STUD POCKET BETUEEN WINDOW UNITS.

TABLE R602.75 MINIMUM NUMBER OF FULL HEIGHT STUDS

AT EACH END OF HEADERS IN EXTERIOR WALLS					
HEADER SPAN	MAXIMUM STUD SPACING (INCHES) (PER TABLE R602.3(5)				
(I LLI)	16	24			
UP TØ 3′	I	_			
4'	2	I			
8'	3	2			
121	5	3			
16'	6	4			



RAWN BY: MAIN STREET DI NEERED BY: ZHH

SHEET: 27 OF: 41 S-4a ATTIC FLOOR FRAMING PLAN

7/15/2021

J.S.THOMPSON
ENGINEERING, INC
608 WALE MALS, SUITE OF A ALHOLH, NG. 7665
PHONE, (919) 788-9911
NC. LICENSE NO. C.1733

WILLOW DAVIDSON HOMES

ELEVATION B

SCALE NOTE:
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.

11" X 11" PRINTS ARE ONE HALF THE NOTED SCALE

## **PRINCE PLACE LOT 69**

### STRUCTURAL NOTES:

- OTRICTURAL NOTES:

  ALL FRAMING LUMBER TO BE "2
  SPF (LNO).

  SPICK FRAME OVER-FRAMED
  ROOF SECTIONS W 2 x 8 RIDGES,
  2 x 6 RAFTERS (8° O.C. AND
  FLAT 2 x 10 VALLEYS OR USE
  VALLEY TRUSSES.

  FASTEN FLAT VALLEYS TO
  RAFTERS OR TRUSSES WITH
  SIMPSON 125A HURRICANE TIES •
  32" O.C. MAX. PASS HURRICANE
  TIES THROUGH NOTCH IN ROOF
  SHEATHING. EACH RAFTER IS TO
  BE FASTENED TO THE FLAT
  VALLEY WITH A MIN. OF (6) 12d
  TOE NAILS.

  REFER TO SECTION R80211 OF THE
  2018 NCRC FOR REQUIRED UPLIFT
  RESISTANCE AT RAFTERS AND
  TRUSSES.
- TRUSSES.

  REFER TO NOTES AND DETAIL
  SHEETS FOR ADDITIONAL
  STRUCTURAL INFORMATION.

S. THOMPSON
NGINEERING, INC
608 WADEANE, SUITE 104 RALEICH, NO. 27605
HOUNE, (191) 789-9921
NC. LICENSE NO. C. 1733

WILLOW DAVIDSON HOMES

DRAWN BY: MAIN STREET D

SHEET: 29 OF: 41



S-5a ROOF FRAMING PLAN

7/15/2021

<u>SCALE NOTE:</u> LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. 11" x IT" PRINTS ARE ONE HALF THE NOTED SCALE

THOMPSON
INEERING, INC
BACK, SUTHE PARABLEH, NC. 1260978999921
NC. LICENSE NO. C. LICENSE NO. C.

WILLOW DAVIDSON HOMES

ATE: NOVEMBER 10, 2021 CALE: 1/4" = 150"

DRAWN BY: MAIN STREET DESI

SHEET: 39 OF: 42 D-2 STEM WALL FOUNDATION DETAILS

MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE WALL HEIGHT (FEET) 4" BRICK AND 4" BRICK AND ອ" CMU 12" CMU 4" CMU 8" CMU 2 AND UNGROUTED GROUT SOLID UNGROUTED UNGROUTED BELOW UNGROUTED GROUT SOLID UNGROUTED UNGROUTED GROUT SOLID w/ \$4 GROUT SOLID w/ 44 GROUT SOLID GROUT SOLID REBAR @ 64" O.C. REBAR @ 48" O.C. GROUT SOLID w/ \$4 REBAR @ 36" O.C. GROUT SOLID W/ #4 REBAR @ 64" O.C. GROUT SOLID w/ \*4 REBAR @ 36" O.C. NOT APPLICABLE GROUT SOLID w/ \$4 GROUT SOLID w/ 44 GROUT SOLID w/ #4 NOT APPLICABLE REBAR @ 24" O.C. 7 AND ENGINEERED DESIGN BASED ON SITE CONDITIONS GREATER

#### STRUCTURAL NOTES:

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
   THE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C., VERTICALLY.
- CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4) BACKFILL OF CLEAN 151 / 161 WASHED STONE IS ALLOWABLE.
- 5) BACKFILL OF WELL DRAINED OR SAND GRAVEL MIXTURE SOILS (45 PSF.FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDING TO WHIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE RAIOS. OF THE 2018 NORTH CAROLINA REGIDENTIAL CODE ARE ALLOWABLE.
- 6) PREP SLAB PER <u>R5062.1</u> AND <u>R5062.2</u> BASE AND <u>EXCEPTION</u> OF 2018 NORTH CAROLINA RESIDENTIAL CODE. 1) MINIMUM 24" LAP SPLICE LENGTH.
- 8) LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- 9) WHERE REQUIRED. FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT, USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5" AND GREATER.

SEE CHAPT FOR SPACING AND EMERDMENT REQUIREMENTS  THICKENED SLAB NOT RECUIRED  4" CONCRETE SLAD WEIGHT FARRIC  6 MILL VAPOR BARRIER  4" WASHED STONE  COMPACTED BILL OR WASHED STONE  TOP TWO COURSES OF STEM WALL AND ALL CELLS W PEINFORCEMENT TO BE FILLED SOLID.  FILLED SOLID.  SHEATHING  CAMPACTED FILL OR WASHED STONE  TOP TWO COURSES OF STEM WALL AND ALL CELLS W PEINFORCEMENT TO BE CHAPT FOR SPACING  6" WIDE BY 8" DEEP CONT. CONC. FTG.	SECURED BY 10" DIA BOLTS.  SEE CHART ROR SPACING AND EMBEDMENT REQUIREMENTS  4" CONCRETE SLAD  W FIDER REINFORCING OR WELDED WIRE FADRIC  BARRIER  4" WASHED STONE  UNDISTURBED EARTH COMPACTED FILL OR WASHED STONE  TOP TWO COURSES OF STEM WALL AND  ALL CELLS W REINFORCEMENT TO DE FILLED SOLID.  FILLED SOLID.  FILLED SOLID.  4" BRICK VENERE FACHING FILED SOLID.  4" BRICK VENERE FILED SOLID.  5" BRICK VENERE FILED SOLID.  6"
STEM WALL FON, DETAIL	STEM WALL FON, W/ BRICK AND CURB (2)
2 × 4 STUD FRAMING (UND)  W TRTD, BOTTOM IPLATE(S)  2 × 4 TRTD, BOTTOM IPLATE(S)  SECURED BY 1/2" DIA, BOLTS,  SEC CHART FOR SPACING AND ENDEDMENT REQUIREMENTS  4" CONCRETE SLAB  W FIBER REINFORCING OR BELDED BIRE FABRIC  6 MIL, VAPOR  BARRIER  4" BARRIER  5 EL COURSE  6 COUR	2 × 4 STUD FRAMING (UND) W TRTD, BOTTOM PLATE(6)  2 × 4 TRTD, BOTTOM PLATE(6)  3 × 4 TRTD, BOTTOM PLATE(6)  5 × 5 ECCHEPO BY 1/2" DIA, BOLTS, 5 × 6 FLASHING 5 × 6 FLASHING AND 6 PRISEDMENT REQUIREMENTS  4" CONCRETE SLAB W FIBER REINFORCING OR BELDOD BINE FABRIC 6 MIL, VAPOR BARRIER INDISTURBED FABRIC CONPACTED FILL CONPACTED FILL CONPACTED FILL CONPACTED FORE TOP TWO COURSES OF 9 TEM BUALL AND  4" WASHED STONE TOP TWO COURSES OF 9 TEM BUALL AND  FILLED SOLID.  FOR CONTROL BY DEEP CONT. CONC. FTG.
STEM WALL FDN. W/ BRICK DETAIL 3	STEM WALL FON, W/ OPTIONAL BRICK WATERTABLE DETAIL 4

-SIDING AS SPEC.

2 x 4 STUD FRAMING (UNO)-U/ TRTD, BOTTOM PLATE(S)

2 x 4 TRTD, BOTTOM PLATE(S)

SECURED BY 1/2" DIA, BOLTS.

BRICK TIES @ I'-4" VERTICALLY AND
2'-6" HORIZONTALLY

4" BRICK VENEER

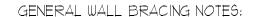
2 x 4 STUD FRAMING (UNO)— W/ TRTD. BOTTOM PLATE(5)

2 x 4 TRTD, BOTTOM PLATE(5)-SECURED BY 12" DIA BOLTS. SEE CHART FOR SPACING AND

ANCHOR SPACING AND EMBEDMENT				NOTE:	
WIND ZO	NE	12 <i>0</i> MPH	13Ø MPH	THREADED ROD WITH EPOXY,	
SPACIN	G	6'-0" O.C. NSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) NCHOR WITHIN 12" OF CORNERS	4'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	SIMPSON TITEN HD, OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN	
EMBEDM	DMENT T"		15" INTO MASONRY 7" INTO CONCRETE	LIEU OF 1/2" ANCHOR BOLTS.	

11/10/2021

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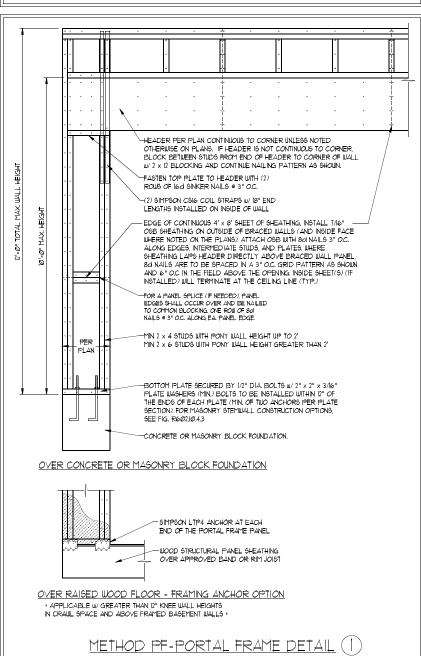
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
- 2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NORC FOR ADDITIONAL INFORMATION AS NEEDED.

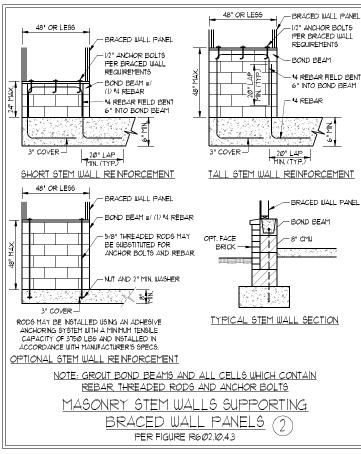
  3. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R60/3.5 (3), WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE.

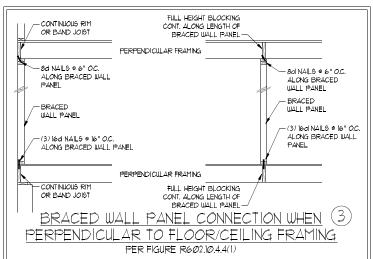
  4. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL
- LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
- 5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED
- 6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R10235. METHOD GB TO BE FASTENED PER TABLE R602101 CS-USP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 1/16" OSB
- SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.113" DIAMETER: NAILS SPACED 6" OC. ALONG PANEL EDGES AND (2" OC. IN THE FIELD (UNO.).

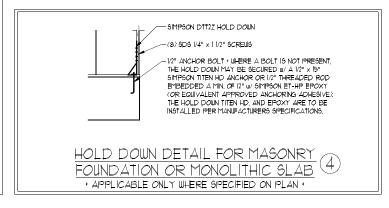
  8. GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON
- BOTH SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREUS OR 15/8" NAILS SPACED 1" OC. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UN.O.). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPAIM PRIOR TO CONSTRUCTION FOR INTERIOR FASTENER OPTIONS SEE TABLE R10235. FOR EXTERIOR FASTENER OPTIONS SEE TABLE REQUISID. EXTERIOR GB TO BE NOTALLED VERTICALLY.

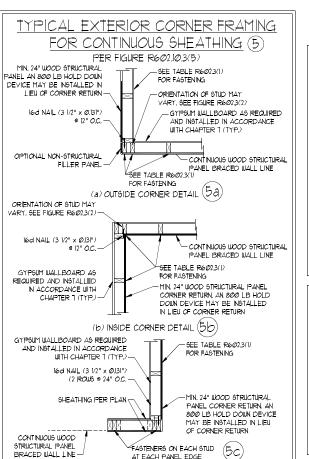
  REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE
- R602. 10.3, METHOD C5-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 15 TIMES ITS ACTUAL LENGTH.











(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

MEMBER DIRECTLY BELOW

BRACED WALL PANEL

NITINI KA IS PIM III/ FINGER

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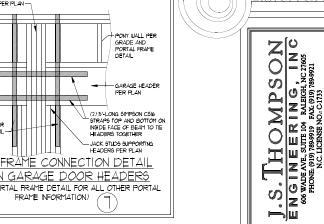
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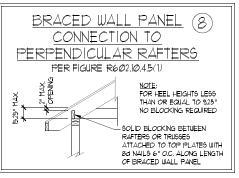
JOISTS OR DBL. BAND JOIS

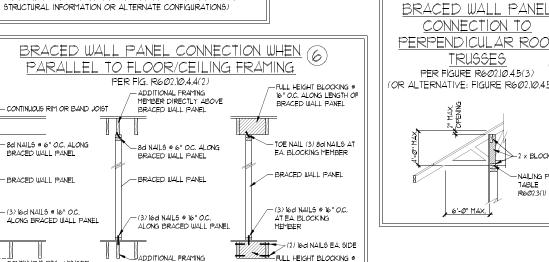
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE KING STUDS BETWEEN GARAGE HEADERS PER PLAN-- PONY WALL PER GRADE AND PORTAL FRAME DETAIL -GARAGE HEADER (2) 5'-LONG SIMPSON CSI6 STRAPS FOR AND BOTTOM ON INSIDE FACE OF BEAM TO THE HEADERS TOGETHER VERTICAL STRAPS PER PORTAL FRAME DETAIL JACK STUDS SUPPORTING HEADERS PER PLAN FRAME CONNECTION DETAIL BETWEEN GARAGE DOOR HEADERS REFERENCE PORTAL FRAME DETAIL FOR ALL OTHER PORTAL FRAME INFORMATION)

SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED







16" O.C. ALONG LENGTH OF

BRACED WALL PANEL

PERPENDICULAR ROOF (9)OR ALTERNATIVE: FIGURE R602,10,4,5(2), 2 x BLOCKING TABLE

SHEET: 40 OF: 41

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WILLOW DAVIDSON HOMES

Q 1919 1733

D-4 WALL BRACING NOTES AND DETAILS

7/15/2021

#### GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF, ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC.), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.1)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	100	L/36Ø
DECKS	40	100	L/36Ø
EXTERIOR BALCONIES	4Ø	10	L/36Ø
FIRE ESCAPES	40	100	L/36Ø
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/36Ø
PASSENGER VEHICLE GARAGE	5∅	10	L/36Ø
ROOMS OTHER THAN SLEEPING ROOM	40	100	L/36Ø
SLEEPING ROOMS	3∅	10	L/36Ø
STAIRS	40	1Ø	L/36Ø
WIND LOAD	(BASED ON TABLE R3Ø12(	4) WIND ZONE AND EXPOSURE)	1
GROUND SNOW LOAD: Pg	2Ø (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSE DEAD LOAD
- FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.16 OF THE NCRC, 2016 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC, 2018 EDITION.

#### FOOTING AND FOUNDATION NOTES

- FOUNDATION DESIGN BASED ON A MINIMUM ALLOUIABLE BEARING CAPACITY OF 2000 PSE. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405J OF THE NCRC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - 1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED ADJUST WHERE NECESSARY
- 4. CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM AI85, MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER,
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR 5 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- T. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404 (KI) R404 (K2) R404 (K3) OR R404 (K3) OF THE NCRC 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.I(B) OF THE NORC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 X 6 FRAMED WALLS AT 16" OC WHERE GRADE PERMITS (UNO)

#### FRAMING NOTES

- 1. ALL FRAMING LUMBER SHALL BE 12 SPF MINIMUM (Fb = 875 PS), Fv = 375 PS), E = 1600000 PS)) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv = 175 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb =2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI, PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E =1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 20000000 PSI, INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING, ASTM SPECIFICATIONS

W AND WT SHAPES: ASTM A992 CHANNELS AND ANGLES: ASTM A36 PLATES AND BARS: ASTM A36

HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B Ď

ASTM A53 GRADE BITTER OR S F STEEL PIPE.

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOUIS (UNO)-

A. WOOD FRAMING (2) 1/2" DIA, x 4" LONG LAG SCREWS (2) 1/2" DIA. x 4" WEDGE ANCHORS B. CONCRETE (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS C. MASONRY (FULLY GROUTED)

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2X NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" OC

- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION, SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.75 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION,
- 1. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO), BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS, ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA THE AMOUNT LENGTH AND LOCATION OF BRACING SHALL COMPLY JUITH ALL APPLICABLE TABLES IN SECTION R60210.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-Ø" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UN.O.). FOR ALL HEADERS 8'-O" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED W/ (4) 12d NAILS EA, PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" OC STAGGERED AND IN ACCORDANCE JUITH SECTION RTIØ3821 OF THE NORG 2018 EDITION
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT, HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES, STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- 15 ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIET CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTSIZ UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CSIG COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. II" x IT" PRINTS ARE ONE HALF THE NOTED SCALE

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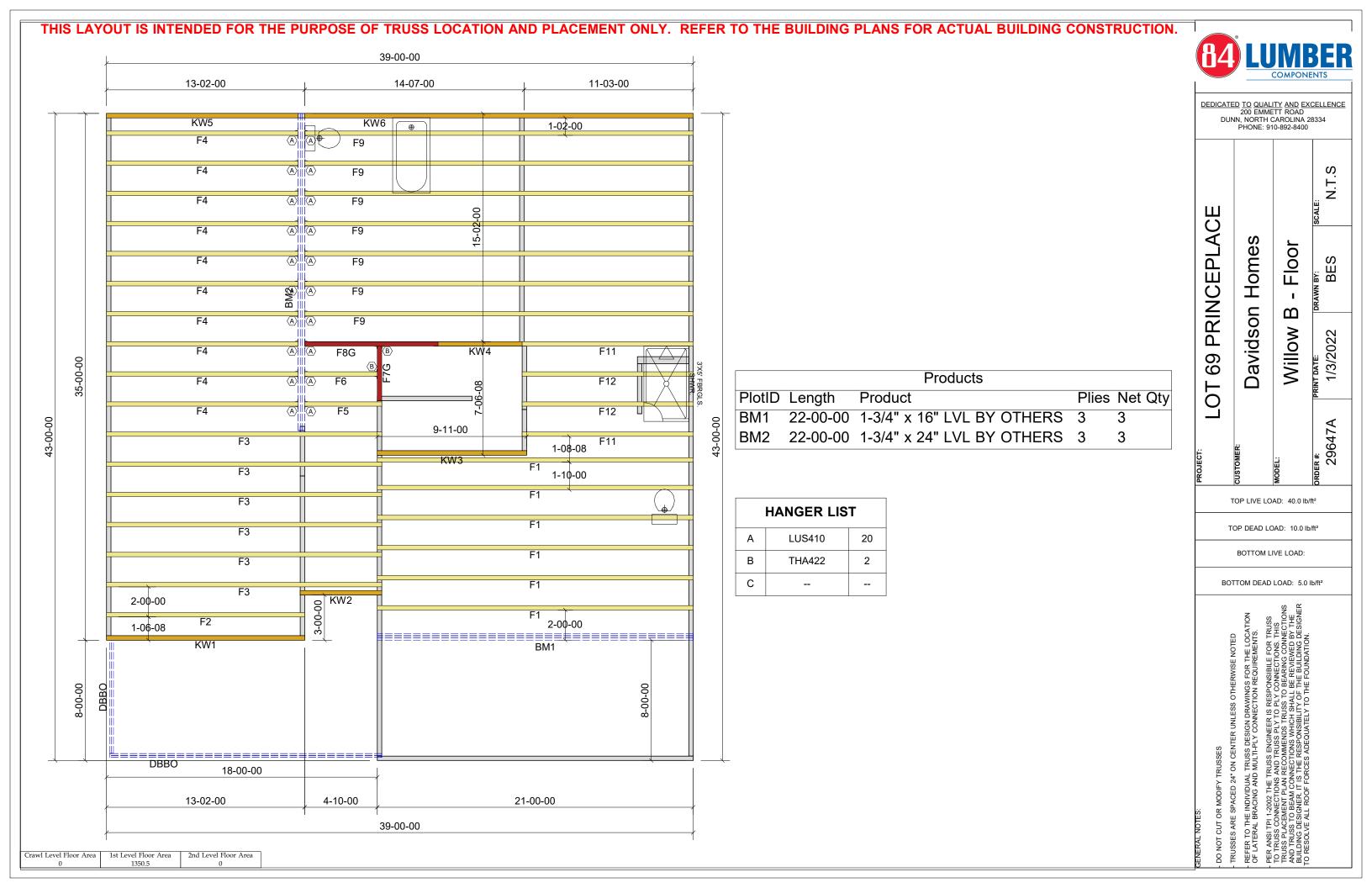
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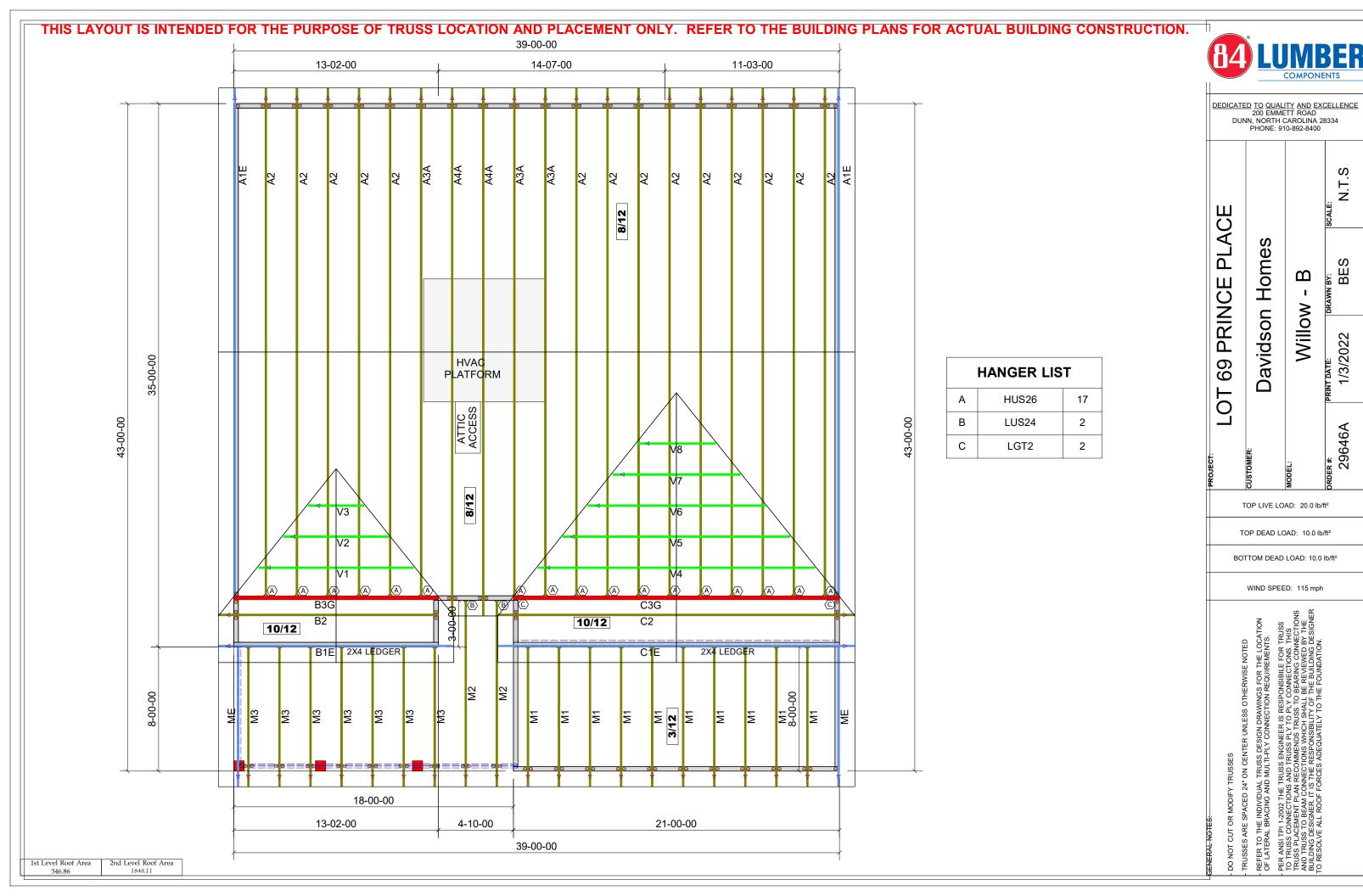
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RAWN BY: MAIN STREET DE EERED BY: ZHH

SHEET: 41 OF: 41 D-5 STANDARD STRUCTURAL NOTES





# J.S. THOMPSON ENGINEERING, INC

structural and geotechnical custom residential design

April 29, 2021

Josh Clowes Davidson Homes, LLC 4208 Six Forks Road Suite 1000 Raleigh, NC 27609

Re: "Willow" plan- all elevations

Dear Mr. Clowes:

Per your request, the plan noted above was reviewed to address the use of BCI joists in lieu of TJI joists as indicated on the structural plans. Analysis revealed the following:

- 1) 14" BCI 4500s-1.8 joists at 19.2" o.c. may be used in lieu of 14" TJI 210 joists at 19.2" o.c. for the second floor system with the exception of the joists above the two-car garage. 14" BCI 4500s-1.8 joists at 12" o.c. may be used in lieu of 14" TJI 210 joists at 16" o.c. above the two-car garage.
- 2) 11 7/8" BCI 4500s-1.8 joists at 19.2" o.c. may be used in lieu of 11 7/8" TJI 210 joists at 19.2" o.c. for the crawl space first floor system.

This configuration will provide the required support for all applied loads.

Please call me if you have any questions.

Sincerely,

J.S. Thompson Engineering, Inc. N.C. License No. C-1733

Joshua A. Grantham

Matthew G. Strother, P.E.



606 Wade Avenue Raleigh, NC 27605 (919) 789-9919 OFFICE (919) 789-9921 FAX

# J.S. THOMPSON ENGINEERING, INC

structural and geotechnical custom residential design

March 19, 2021

Joshua Clowes Davidson Homes, LLC 4208 Six Forks Road Suite 1000 Raleigh, NC 27609

Re:

"Willow" plan

All elevations under construction

Dear Mr. Clowes:

Per your request, the plan noted above was reviewed to address an alternative for the LVL beam above the family room/kitchen.

Analysis revealed a W 14 x 34 steel beam may be installed in lieu of the plan specified (3) 1 3/4" x 24" LVL beam. The beam is to be installed flush within the floor system and the subfloor is to be fastened to the top flange with construction adhesive. The beam is to be packed out at each side with 2x material fastened with (2) rows of 1/2" through bolts with nuts and washers at 24" o.c. The beam is to be supported by (5) jacks at each end. This configuration will provide the required support for all applied loads.

Please call me if you have any questions.

Sincerely,

J.S. Thompson Engineering, Inc. N.C. License No. C-1733

Joshua Grantham

Matthew G. Strother, P.E.

SEAL 33736 G. STROMBER 3/19/2021

606 Wade Avenue Raleigh, NC 27605 (919) 789-9919 OFFICE (919) 789-9921 FAX

# J.S. THOMPSON ENGINEERING, INC

structural and geotechnical custom residential design

May 3, 2021

Garrison Safriet Davidson Homes, LLC 4208 Six Forks Road Suite 1000 Raleigh, NC 27609

Re: "Willow" plan

Dear Mr. Safriet:

The above noted plan was reviewed to address using Thermo-Ply Blue sheathing in lieu of 7/16" OSB sheathing at exterior walls and gypsum board at interior braced walls.

Review revealed that Thermo-Ply Blue may be used in place of 7/16" OSB for all exterior walls with the exception of portal framed garage walls. Thermo-Ply Blue may also be used in place of gypsum board at all interior braced walls designated by the plan as "GB" wall bracing method. To install Thermo-Ply Blue sheathing, block all horizontal joints and fasten the sheathing with min. 15/16" crown, 16 ga. staples or .012" min. diameter 3/8" head diameter, 11 ga. 1 1/4" length nails. Space fasteners at 3" o.c. along panel edges and in the field with minimum 1" embedment into framing. Do not countersink fasteners. Install per manufacturer's specifications. This configuration will provide the required support for all applied loads.

Please call me if you have any questions.

Sincerely,

J.S. Thompson Engineering, Inc. N.C. License No. C-1733

Joshua A. Grantham

Matthew G. Strother, P.E.

5/3/2021

606 Wade Avenue Raleigh, NC 27605 (919) 789-9919 OFFICE (919) 789-9921 FAX