Residence for

Garman Homes Lot 0095 Serenity Fuquay Varina, North Carolina

INDEX TO DRAWINGS

COVER SHEET

- FRONT & LEFT SIDE ELEVATIONS
- **REAR & RIGHT SIDE ELEVATIONS** FIRST & SECOND FLOOR PLANS
- FIRST & SECOND FLOOR ELECTRICAL PLANS
- FIRST & SECOND FLOOR MECHANICAL PLANS
- FIRST FLOOR PLUMBING PLAN

- FOUNDATION PLAN & FIRST FLOOR FRAMING PLAN
- SECOND FLOOR FRAMING PLAN & ROOF FRAMING PLAN OPTIONAL SCREEN PORCH DETAILS
- STRUCTURAL DETAILS STRUCTURAL DETAILS
- STRUCTURAL NOTES

- CONSTRUCTION DETAILS

GENERAL NOTES

- 1. ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE, 2018 EDITION (HEREWITH SHOWN AS N.C.S.R.B.C.)
- 2. DIMENSIONS SHOWN ON DRAWINGS GOVERN OVER SCALE.
- 3. STUD WALL DESIGN SHALL CONFORM TO ALL N.C.S.R.B.C.
- 4. CONTRACTOR SHALL USE TEMPERED SAFETY GLASS IN ALL LOCATIONS AS REQUIRED BY N.C.S.R.B.C., 2018 EDITION, SECTION
- 5. ANY HABITABLE ROOM SHALL MEET ALL LIGHT/VENTILATION AND EGRESS AS REQUIRED BY N.C.S.R.B.C. 2018 EDITION, SECTIONS R-303.1 AND R-310.1.
- 6. ALL EXTERIOR WALLS SHOWN ON FLOOR PLANS ARE 2X6 FRAME UNLESS NOTED OTHERWISE. ALL INTERIOR WALLS SHOWN ON FLOOR PLANS ARE 2X4 FRAME UNLESS NOTED OTHERWISE.
- 7. ALL ANGLED WALLS SHOWN ON FLOOR PLANS ARE 45 UNLESS NOTED OTHERWISE.
- 8. ALL WINDOWS SHALL HAVE A MINIMUM DPI RATING OF 25. BUILDER SHALL VERIFY WITH WINDOW MANUFACTURER THAT UNITS INSTALLED MEET THESE REQUIREMENTS AS PER N.C.S.R.B.C., 2018 EDITION, TABLE 301.2(4).
- 9. ENERGY EFFICIENCY REQUIREMENTS FOR THE SPECIFIC CLIMATE ZONE WHERE STRUCTURE IS BEING BUILT SHALL BE IN ACCORDANCE WITH CHAPTER 11 OF THE N.C.S.R.B.C., 2018 EDITION, AS SHOWN IN SECTION N1101.2.

MATERIALS LEGEND

	EARTH/COMPACT FILL	FINISH WOOD
a 4	CONCRETE	ROUGH WOOD
	BRICK	BLOCKING
	CONCRETE BLOCK/STONE	PLYWOOD
	STEEL	BATT INSULATION
	ALUMINUM	RIGID INSULATION

ATTIC VENTILATION REQUIREMENTS

NATURAL ROOF VENTILATION CALCULATIONS

<u>1357 SQ. FT.</u> = 9.05 SQ. FT.

BUILDER TO PROVIDE APPROPRIATE VENTILATING AS REQUIRED PER CODE

CALCULATIONS

1357 SQ. FT. = 4.53 SQ. FT. VENT REQ'D

MECHANICAL ROOF VENTILATION

BUILDER TO PROVIDE APPROPRIATE VENTILATING AS

RESIDENTIAL BUILDING CODE SUMMARY

- 1. PLANS ARE DESIGNED TO THE 2018 N.C.S.R.B.C.
- 2. HOUSE IS DESIGNED FOR 115 MPH ULTIMATE DESIGN WIND SPEED (89 MPH NOMINAL DESIGN WIND SPEED), EXPOSURE B.
- 3. ANCHOR BOLTS SHALL BE MIN. 1/2" DIAMETER AND SHALL EXTEND 7" MIN. INTO MASONRY OR CONCRETE. BOLTS TO BE NO MORE THAN 6' O.C. AND WITHIN 12"
- 4. MEAN ROOF HEIGHT: 35'-0"
- 5. COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS:

MEAN ROOF HGT:	UP TO 30'	30'-1" TO 35'	35'-1" TO 40'	40'-1" TO 45
ZONE 1	16.5,-18.0	17.3,-18.9	17.3,-18.9	17.3,-18.9
ZONE 2	16.5,-21.0	17.3,-22.1	17.3,-22.1	17.3,-22.1
ZONE 3	16.5,-21.0	17.3,-22.1	17.3,-22.1	17.3,-22.1
ZONE 4	18.0,-19.5	18.9,-20.5	18.9,-20.5	18.9,-20.5
ZONE 5	18 0 -24 1	18 9 -25 3	18 9 -25 3	18 9 -25 3

- 6. MINIMUM VALUES FOR ENERGY COMPLIANCE: Zone 4
- 7. MAXIMUM GLAZING U-FACTOR: .35
- 8. INSULATING VALUES: CEILING: R-38 / WALLS: R-15 / FLOOR: R-19 SLABS: R-10. CODE REFERENCE: TABLE N1102.1

AREA CALCULATIONS

HEATED (SQ. FT.)		UNHEATED (SQ. FT.)		UNFINISHED (SQ. FT.)	
BASEMENT: 1ST FLOOR: 2ND FLOOR: ATTIC: GARAGE:	N/A 848 1186 N/A N/A	GARAGE: FRONT PORCH: DECK: SCREEN PORCH:	428 81 N/A 100	1ST FLOOR: 2ND FLOOR: 3RD FLOOR: TOTAL:	N/A N/A N/A
TOTAL:	2034	TOTAL: 609		OVERALL DIMEN WIDTH: DEPTH:	<u>SIONS</u> 33'-8" 52'-6"

FOUNDATION VENTILATION CALCULATIONS

REFERENCE: N.C.S.R.B.C. 2018 EDITION SECTION R408)

NOT APPLICABLE WITH SLAB FOUNDATIONS





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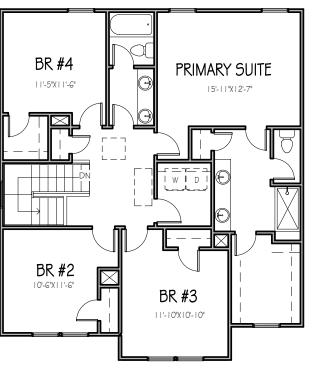
Project Number

Project Number Plan Number

FP-2034

SER ELEVATION A LOT 0095 SERENITY





Drawn By
ММН
Checked By
JM
Date Drawn
3/18/20
Revision Date
7/2/20
4/5/22
Sheet



NOTE - SLOPE ALL GRADES AWAY FROM HOUSE FOR POSITIVE DRAINAGE

FRESH :PAINT

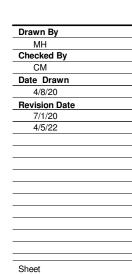
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Project Number Project Number Plan Number

FP-2034

SER ELEVATION A LOT 0095 SERENITY

WISTERIA





WINDOWS WITH CORNER LOTS ONLY

BRICK VENEER FND. @ PORCH /

STEPS TO GRADE AS PER SITE

STEPS TO GRADE

AS PER SITE

1/8" = 1'-0"

LEFT SIDE ELEVATION

BRICK VENEER



THE PURPOSE OF THESE DRAWINGS IS TO SHOW THE INTENT OF THE DESIGN AND CONSTRUCTION OF THIS HOME. CONTRACTOR SHOULD VERIFY ALL
CONDITIONS AND DIMENSIONS PRIOR TO
CONSTRUCTION. ONCE A PERMIT HAS BEEN ISSUED, CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY TO THE ACCURACY OF THE PLANS AND ANY CHANGES MADE DURING CONSTRUCTION.



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Project Number Project Number Plan Number FP-2034

SER ELEVATION A LOT 0095 SERENITY **WISTERIA**

Drawn By Checked By CM Date Drawn 4/8/20 Revision Date 7/1/20 4/5/22 Sheet

12 1/8" = 1'-0" RIDGE VENT RIDGE VEN FIBERGLASS SHINGLE ROOF CEMENTITIOUS SIDING TREATED FRAMING WITH INSECT SCREEN 2ND FIN. FLR . CORNER TRIM AS SPEC PROVIDE RAILS @ REQUIRED BY CODE IST FIN. FLR. STEPS TO GRADE AS FOUNDATION FRONT PER SITE GRADE TO FINISHED FRONT PORCH WRAP BRICK VENEER 24" PARGED FND. WALL STEPS AS PER GRADE BRICK VENEER PIER -@ FND. WHERE SHOWN

REAR ELEVATION

RIGHT SIDE ELEVATION

PORCH ONLY IF

15" MIN. HGT.

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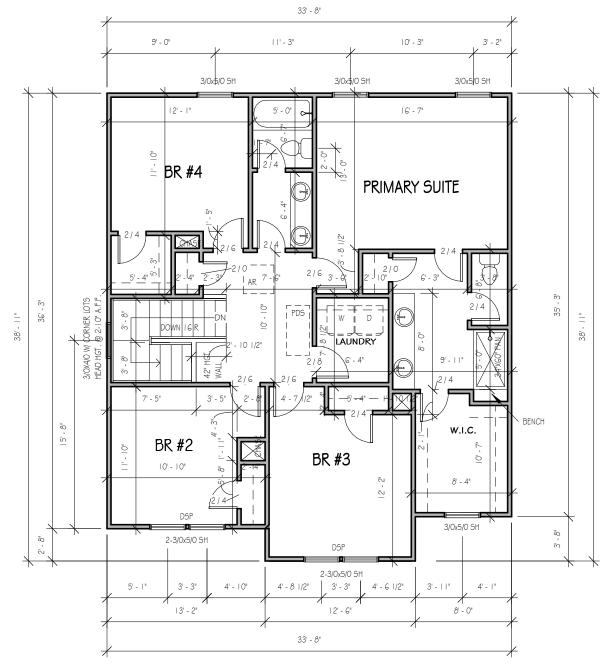
FP-2034

WISTERIA SER ELEVATION A LOT 0095 SERENITY

Drawn By
MH
Checked By
CM
Date Drawn
4/8/20
Revision Date
7/1/20
4/5/22

Sheet

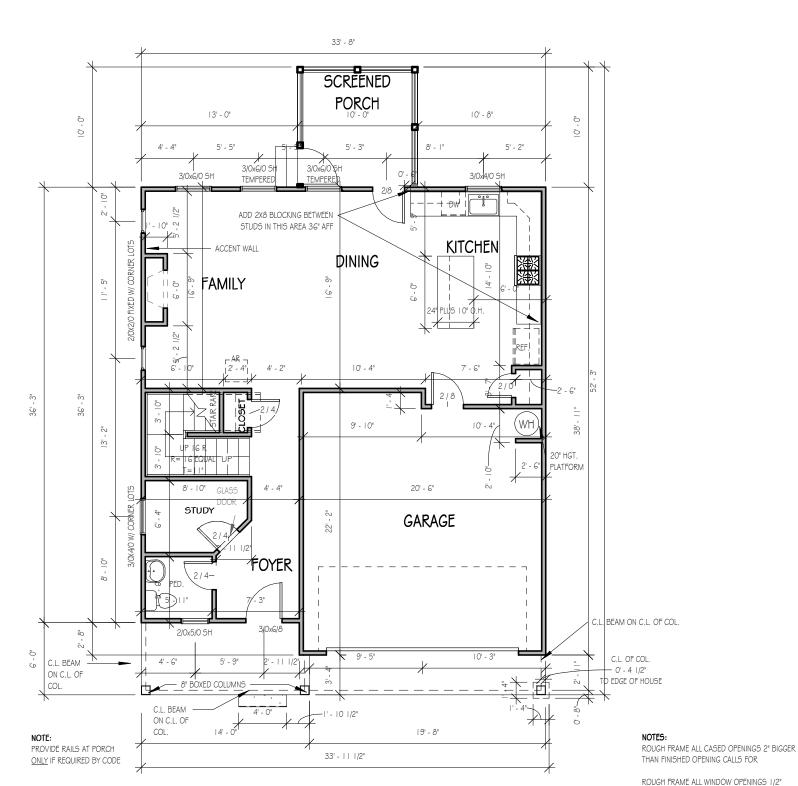
9'-0" CLG. HGT. U.N.O.



SECOND FLOOR

1/8" = 1'-0

SET WINDOWS @ 7'-4" U.N.O.



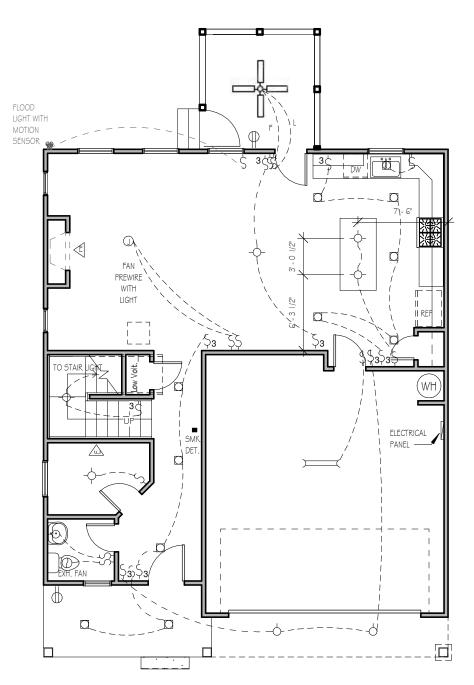
FIRST FLOOR

1/8" = 1'-0"

9'-0" CLG. HGT. U.N.O. SET WINDOWS @ 7'-6" U.N.O. CASED OPENINGS 8'-0" TALL ALL EXTERIOR WALLS 2X4

TOP OF ALL WINDOWS SILLS SHALL BE 24" MINIMUM ABOVE THE FINISHED FLOOR <u>OR</u> A FALL PREVENTION DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R312.2 OF N.C.S.R.B.C., 2018 EDITION

LARGER THAN FINISHED WINDOW CALLS FOR, WHEN PAIRED WITH ANOTHER WINDOW THAT CALLS FOR DSP, ADD EXTRA TO OUTSIDE MEASUREMENT OF WINDOW



**NOTE: THREE ETHERNET OUTLETS IN THESE PREDETERMINED LOCATIONS ARE STANDARD. ANY ADDITIONAL OUTLETS ARE AN UPGRADE.

FAN PREWIRE FAN PREWIRE d FAN PREWIRE WITH LIGHT () FAN PREWIRE WITH LIGHT

FIRST FLOOR ELECTRICAL PLAN

1/8" = 1'-0"

NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AN D LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER EXCEPT WHERE CODE REQUIREMENTS APPLY.

SECOND FLOOR ELECTRICAL PLAN

1/8" = 1'-0"

NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AN D LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER EXCEPT WHERE CODE REQUIREMENTS APPLY.

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ELECTRICAL LECEND

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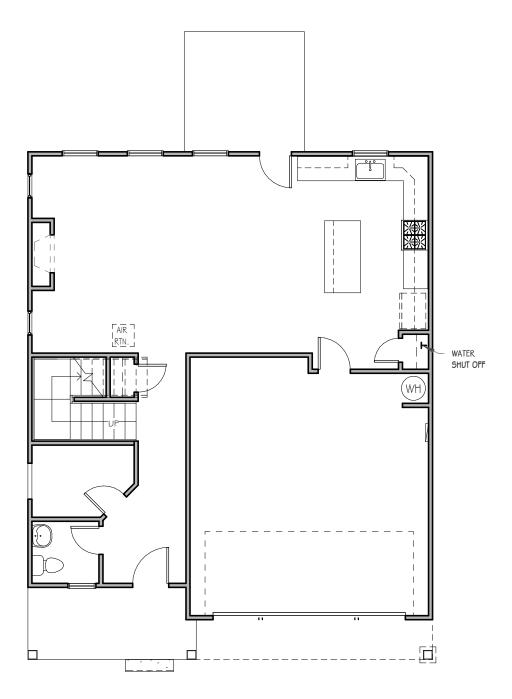
WISTERIA SER ELEVATION A LOT 0095 SERENITY

O - PANLISHT MP- WATERPROOF OUTLET III - RECESSED LIGHTING . SINKLE PULL GATCH ta - B-MAY SMITCH E - 4-MAY SMITCH E - DINHER SHITCH - SMOKE DETECTOR № - нгоор панца W - EYEDALL SOOTS • DUPLEX RECEPTABLE (1697) - 220 VOLT WEGETTAGLE . BWITCHED RESERVAGE (TOP WIRE OILY) $\phi_{\rm H}$ - should failt order messaletor CONTRACTOR - CLA PARCLISHES - Hubresakki Llevinke O - CARLE OUTLET A - TELEPHONE OUTLET A - COMPUTER DATA CUILET M - DURBLAR ALARM - INTERSOM NOTE: ALL ELECTRICAL TO SE VERIFED BY OWNER/BULDER BETORE ROUGH-IN.

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MH	
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4/8/20	
Revision Date	
7/1/20	
4/5/22	

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FIRST FLOOR MECHANICAL PLAN

1/8" = 1'-0"

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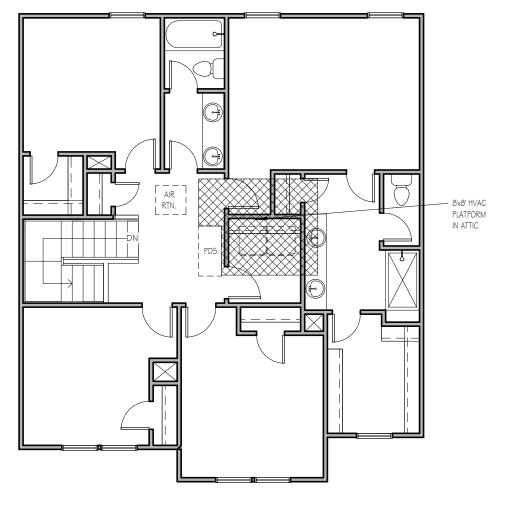
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LOT 0095 SERENITY



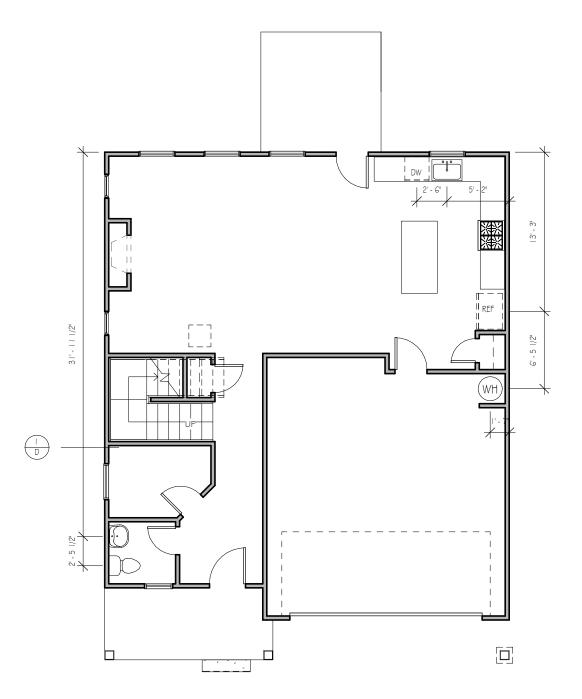
SECOND FLOOR MECHANICAL PLAN

1/8" = 1'-0"

Drawn By
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Checked By
CM
Date Drawn
4/8/20
Revision Date
7/1/20
4/5/22

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M



FIRST FLOOR PLUMBING

1/8" = 1'-0"

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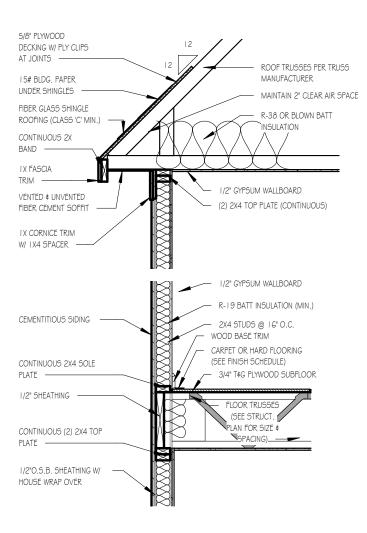
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Plan Number
FP-2034

WISTERIA SER ELEVATION A LOT 0095 SERENITY

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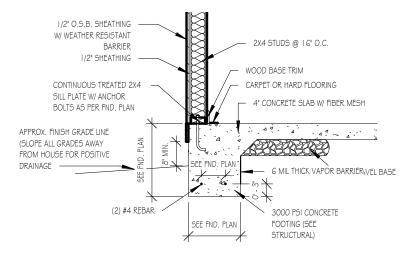
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TWO-STORY WALL SECTION

1/2" = 1'-0"

1/2" = 1'-0"



FOUNDATION DETAIL - SLAB

LUG FOOTING

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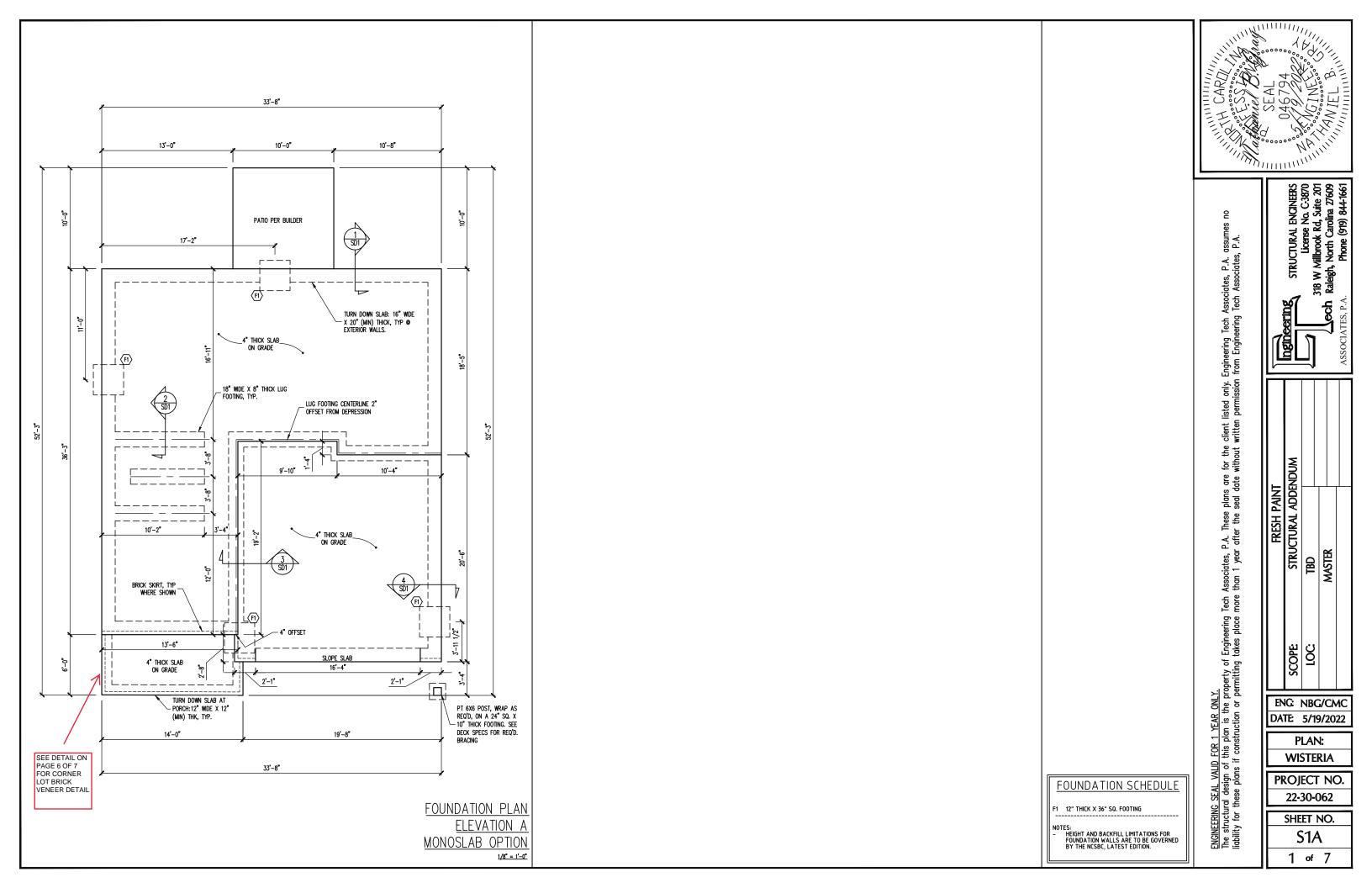
TYPICAL DETAIL SHEET

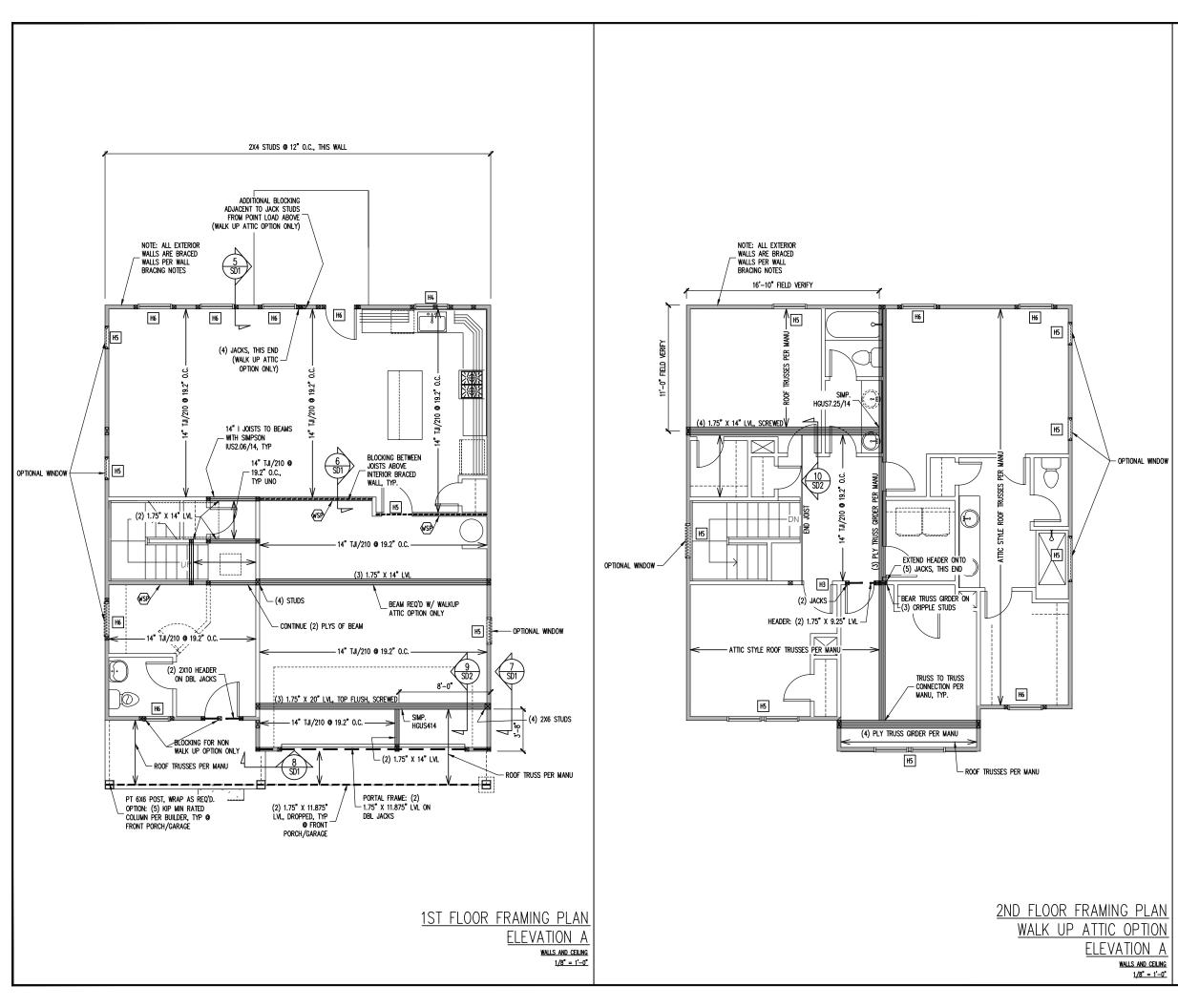
SERENITY COLLECTION

Drawn By

MMH
Checked By
CM
Date Drawn
10/28/20
Revision Date
4/26/22

1/2" = 1'-0"





TRUSS SUBSTITUTION

14" I-JOISTS PERMITTED TO BE SUBSTITUTED WITH 14" FLOOR TRUSSES.

MAINTAIN MINIMUM SPACING AS CALLED OUT ON

SIMP. IUS/ITS2.06/XX HANGERS TO BE SUBSTITUTED WITH SIMP. IUS/ITS3.56/XX HANGER WHEN FLOOR TRUSSES HAVE BEEN INSTALLED.

CONSTRUCTION SPECIFICATIONS INSTANT REFERENCES

REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:

PART 1.01: CURRENT GOVERNING CODE

PART 14: STUD SUPPORT FOR BEAMS

PART 17: KING STUDS FOR EXTERIOR WALLS

SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS

WALL BRACING

SHADED WALLS:

ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.

WSP - ONE SIDE OF INTERIOR WALL OR INSIDE OF EXTERIOR WALL WITH 3/8" MIN. THICKNESS WOOD STRUCTURAL PANELING ATTACH WSP TO STUD WALL WITH 8d NAILS @ 4" O.C. AT PANEL EDGES, 8" O.C. IN PANEL FIELD.

PROVIDED CONTINUOUS SHEATHING = 145' MIN.

REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

HEADER SCHEDULE

- SINGLE 2X4 TURNED FLAT (A)
- H2 (2) 2X4'S ON SINGLE JACKS (B)
- (2) 2X10'S ON SINGLE JACKS (C)
- (2) 1.75" X 9.25" LVL'S ON DBL JACKS
- H5 (2) 2X8'S ON SINGLE JACKS
- (2) 2X8'S ON DBL JACKS
- TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.
- TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.
- TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.

-HEADERS IN NON LOAD BEARING INTERIOR
WALLS ARE NOT LABELED.

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L VALID F sign of tl plans if ENGINEERING The structural liability for th

STRUCTURAL ENGINEERS
License No. C-3870
W Millbrook Rd, Suite 201
leigh, North Carolina 27609
Phone (919) 844-1661 W Mille leigh, No FRESH PAINT STRUCTURAL ADDENDUM

ENG: NBG/CMC DATE: 5/19/2022

MASTER

TBD

PLAN: **WISTERIA**

PROJECT NO. 22-30-062

> SHEET NO. S2A

NOTE: ALL EXTERIOR WALLS ARE BRACED WALLS PER WALL BRACING NOTES H5 H5 H5 H5 H5 - OPTIONAL WINDOW LOCATE PDS BETWEEN TRUSSES OPTIONAL WINDOW -H5 H4 (3) PLY TRUSS GIRDER PER MANU H5 - ROOF TRUSSES PER MANU 2ND FLOOR FRAMING PLAN WALLS AND CEILING 1/8" = 1'-0"

TRUSS UPLIFT CONNECTORS

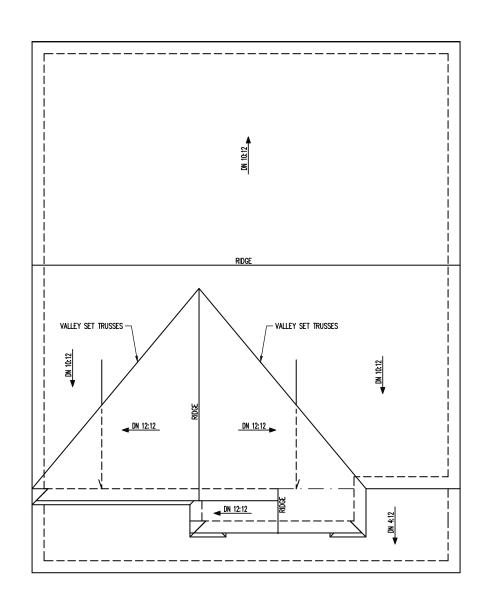
TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE BELOW.

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

OVER 28'

(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM

OR (1) SIMPSON H3 CLIP TO SINGLE 2X4 PLATE



ROOF FRAMING PLAN **ELEVATION A** 1/8" = 1'-0"

FRAMING NOTES

-ROOF TRUSSES PER MANU. TYPICAL U.N.O. -VERIFY ALL KNEEWALL HEIGHTS, ROOF PITCHES, AND ARCHITECTURAL OVERHANGS PRIOR TO CONSTRUCTION

CONSTRUCTION SPECIFICATIONS INSTANT REFERENCES

REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:

PART 1.01: CURRENT GOVERNING CODE

PART 14: STUD SUPPORT FOR BEAMS PART 17: KING STUDS FOR EXTERIOR WALLS

WALL BRACING

SHADED WALLS:

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PROVIDED CONTINUOUS SHEATHING = 145' MIN.

REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

HEADER SCHEDULE

- SINGLE 2X4 TURNED FLAT (A)
- (2) 2X4'S ON SINGLE JACKS (B)
- (2) 2X10'S ON SINGLE JACKS (C)
- H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS
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- TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.
- TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.
- TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.

-HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED.

STRUCTURAL ENGINEERS
License No. C-3870
318 W Millbrook Rd, Suite 201
Raleigh, North Carolina 27609
Phone (919) 844-1661 FRESH PAINT
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TBD

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ENG: NBG/CMC DATE: 5/19/2022

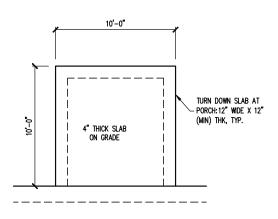
> PLAN: **WISTERIA**

PROJECT NO. 22-30-062

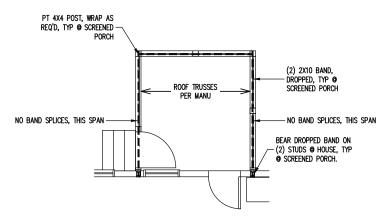
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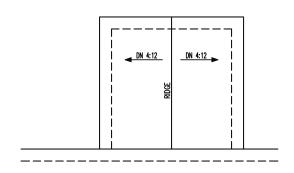
O FOR 1 YEAR ONLY. If this plan is the property of E if construction or permitting to Sign of the ENGINEERING The structural liability for th



FOUNDATION PLAN OPTIONAL SCREENED PORCH MONOSLAB FOUNDATION 1/8'' = 1'-0''



1ST FLOOR FRAMING PLAN OPTIONAL SCREENED PORCH 1/8" = 1'-0"



ROOF FRAMING PLAN OPTIONAL SCREENED PORCH 1/8'' = 1'-0''

2

ENGINEERING SEAL VALID FOR 1 YEAR ONLY.

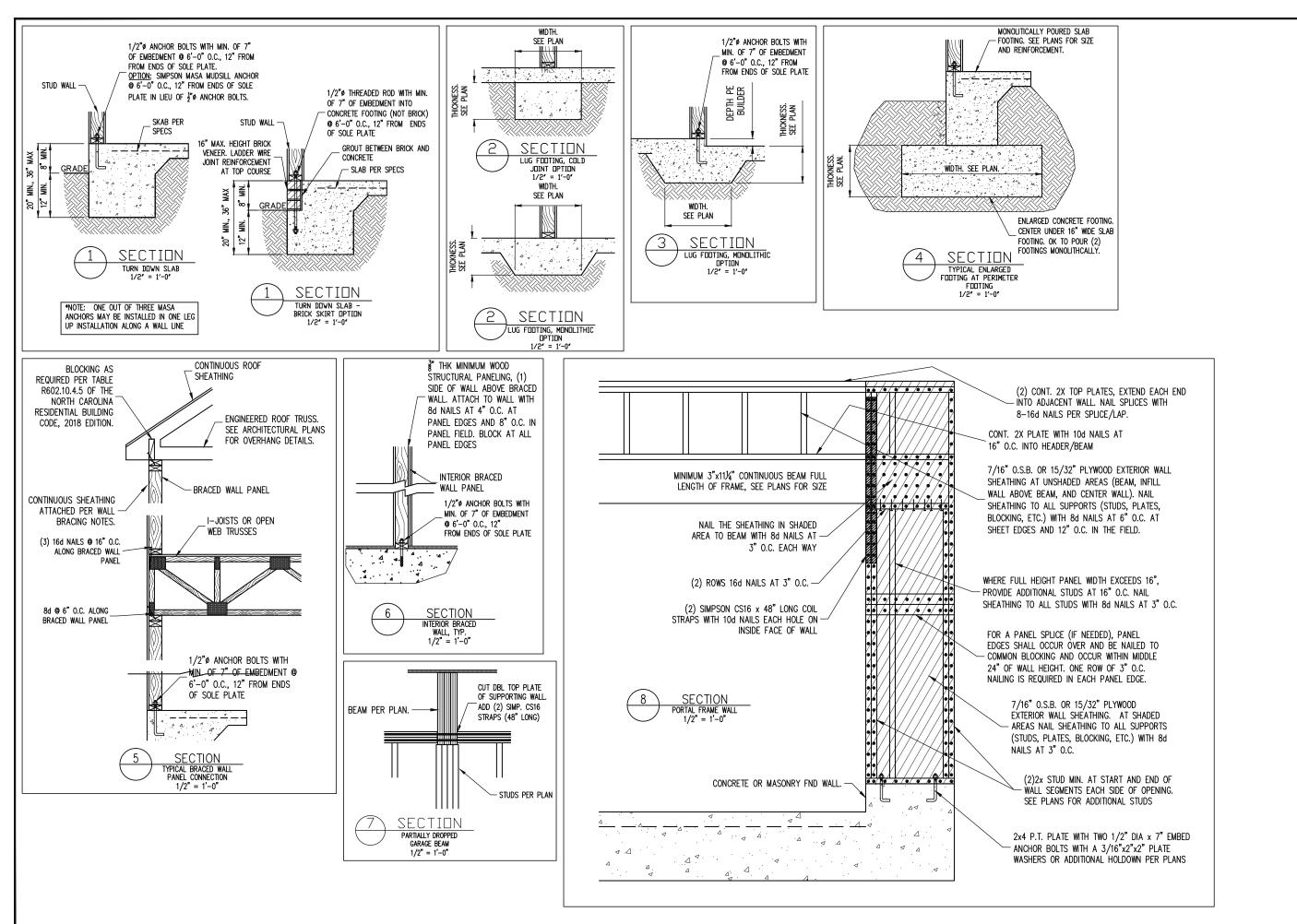
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ENG: NBG/CMC DATE: 5/19/2022

PLAN: **WISTERIA**

PROJECT NO. 22-30-062

> SHEET NO. S5A



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License No. C-3870
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ACCh Raleigh, North Carolina 27609
IATES, P.A. Phone (919) 844-1661

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TBD
MASTER
ASS

ENG: NBG/CMC DATE: 5/19/2022

PLAN: WISTERIA

PROJECT NO. 22-30-062

SHEET NO.

CONSTRUCTION SPECIFICATIONS

PART 1: GENERAL

- CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE. 2018 EDITION.
- 1.02 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.
- METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

PART 2: DESIGN LOADS

2.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW: USE

DECKS, ATTICS WITH FIXED STAIR WELLING UNITS INCLUDING ATTICS WITH R ACCESS, STAIRS, FIRE ESCAPES	40	10
GARAGES (PASSENGER CARS ONLY)	50	

LIVE LOAD (PSF) DEAD LOAD (PSF)

ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10 ATTICS (WITH STORAGE) 20 ROOF 20 10 (15 FOR VAULTS)

- NOTES: INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS.

 BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR
 - ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER
- 2.02 INTERIOR WALLS: 5 PSF LATERAL
- 2.03 BASIC WIND DESIGN VELOCITY OF 120 MPH.
- 2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).

PART 5: CONCRETE AND SLABS ON GRADE

- CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 6% AIR ENTRAINMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. ALL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP 5.01
- 5.02 REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED II ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.
- SLABS ON GRADE, IF ANY, SHALL CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CU YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 2" MIN GRANULAR FILL ON SOIL WITH 90% MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT

PART 6: REBAR AND WIRE REINFORCEMENT

- REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO
- LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318. TYP UNO 6.02
- 6.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.

- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT,
- 7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW

FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION:

THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION

1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR

TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW

7.03 MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.

NOTES

THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER

SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE

ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE

RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO

ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE

THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER

ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL

CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.

7.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530

LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS 7.05

PART 8: BOLTS AND LAG SCREWS

ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO

PART 9: DRIVEN FASTENERS

NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667- 05. NAILS ARE TO BE COMMON WIRE OR BOX

PART 10: DIMENSIONAL LUMBER

10.01 Solid sawn wood framing design is based on no. 2 spruce pine fir \underline{or} syp #2 for joists, rafters, girders, beams, studs, etc.

PART 11: ENGINEERED LUMBER

ABV ABOVE

BOTH ENDS

CAST IN PLACE

CONTINUOUS SHEATHING

RETWEEN

CONCRETE

DIAMETER

DOUBLE JOIST

DBL STUD POCKET

B. BOTH

RTWN

CIP

CONC

CS

DBL DJ DOLIRI F

DSP

EQ EQUAL

EQ EQUAL

EA EACH

FLG FLANGE

FL PL FLITCH PLATE

FLR FLOOR

- LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.9 X 10E6 PSI, Fb = 2600 PSI, Fv = 285 PSI, Fc = 750 PSI LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.3 X 10E6 PSI. Fb = 1700 PSI. Fv = 400 PSI. Fc = 680 PSI
- 1.02 LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER

PART 12: PRESSURE TREATED LUMBER

LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL 12.01 DECAY RESISTANT WOOD PER SECTION 19-6(A)

PART 14: STUD SUPPORTS FOR BEAMS

STEEL, ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:

1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANCED STUDS, OR A GANCED STUD COLUMN WITH A NUMBER OF STUDDS SUCH THAT THE STUD COLUMN IS AT LEAST AS MOR AS THE TRUE WIDTH OF THE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UND, FOR THE SKEWED CONDITION DEPOTED AND THE STAFFLED OF SUPPORTED ON THE SKEWED. CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM

2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED

4.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:

1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED (LESS 1 1/2" TO ALLOW FOR A CONTINUOUS RIM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM 2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A

MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN

EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE TO THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.

STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NAILED TOGETHER WITH ONE ROW OF 10d NAILS AT 8" O.C. (TWO ROWS OF 10d NAILS 08 8" O.C., 3" APART, FOR 2X8 OR 2X10 STUDS) ALL COLUMNS SHALL BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED STRUCTURAL ELEMENT SUCH AS A BEAM. COLUMNS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED FOR THE FULL WIDTH OF THE STUD COLUMN

ABBREVIATIONS

TJ TRIPLE JOIST

UNO UNLESS NOTED

XJ EXTRA JOIST

OTHERWISE

TSP TRIPLE STUD POCKET

TYP TYPICAL

TRPL TRIPLE

FND FOUNDATION

HDG HOT DIPPED

GALVANIZED

LVL LAMINATED VENEER

PSL PARALLEL STRAND

PT PRESSURE TREATED

LUMBER NTS NOT TO SCALE

I.UMBER

QJ QUAD JOIST

SP STUD POCKET SQ SQUARE

O.C. ON CENTER

FTG FOOTING

HGR HANGER

WITHIN THE CAVITY FORMED BY THE

PART 15: NAILING OF MULTI PLY WOOD BEAMS

SOLID SAWN LUMBER JOISTS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM NAILED TOCETHER WITH THREE ROWS OF 10d NAILS @ 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10d NAILS @ 16" O.C. FOR 2X8, ONE

LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP

PART 16: WALL FRAMING AND BRACING

STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CEILING OR ROOF. NO INTERMEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO.

MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, WITH SOLE PLATE AND DBL TOP PLATE AND 7/16" OSB EXTERIOR BRACING AND ROW OF 2X4 / AND DEL LOF THE AND 71 0 SB EXTERIOR BRAINER AND NOW 7244 / 226 PURINS AT 8' HEIGHT (AND AT 16' HEIGHT FOR TALL WALLS), TYP UNO: 2X4 @ 16" 0.C.: 11'-0" 2X6 @ 16" 0.C.: 17'-0" 2X6 @ 16" 0.C.: 18'-8" DBL 2X4 @ 16" 0.C.: 13'-4" DBL 2X6 @ 16" 0.C.: 21'-0"

16.02 FOR WALL BRACING THE FOLLOWING SHALL APPLY:

-BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO.

-WALL BRACING IS BY KIONICERED DESIGN AND NOT PRESCRIPTIVE PER SECTION 602.10 OF THE 2018 NCRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED.

OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED.

BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.—MAY SUBSTITUTE WEY FOR GB

-SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO TOP PLATE WITH 164 TOE NAILS @ 6° O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 164 NAILS @ 16° O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED WALL BLOCKING BELOW WITH (3) 164 NAILS @ 16° O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO.

PART 17: KING STUDS

17.01 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:

		NUMBER OF KING STUDS				
MAX OPENIN	NG WIDTH	5'-0"	9'-0"	13'-0"	17'-0"	21'-0
	2X4	1	2	3	4	5
STUD SIZE	2X6	1	1	2	2	2
	2X8	1	1	1	1	2

PART 18: SUBSTITUTIONS

MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR

PART 19: OWNERSHIP OF STRUCTURAL DESIGN

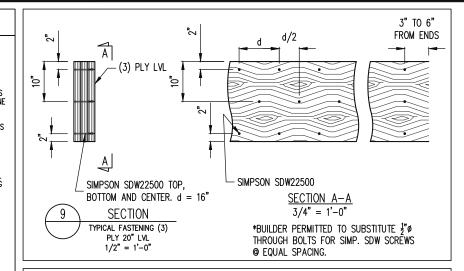
THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH ASSOCIATES (ETA). THESE PLANS
ARE FOR THE ONE TIME USE AT THE LOCATION INDICATED
AND FOR THE CLUENT LISTED. ETA ASSUMES NO LIABILITY
FOR THESE PLANS IF THEY ARE REPRODUCED, IN WHOLE OR
IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA

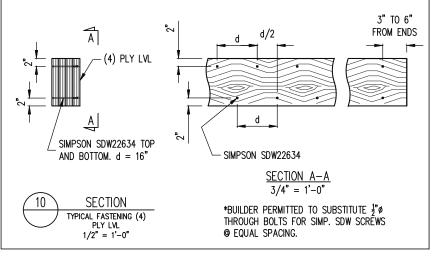
ALLOWABLE I-JOIST SUBSTITUTION

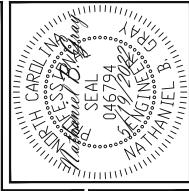
NOTE: MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON PLANS.

BLUELINX 14" BLI 40 IUS2.56/14 ITS2.56/14 BOISE CASCADE 14" BCI 5000s IUS2.06/14 ITS2.06/14 BOISE CASCADE 14" BCI 6000S IUS2.37/14 ITS2.37/14 LP CORP 14" LPI 20+ IUS2.56/14 ITS2.56/14 NORDIC 14" NI 40X IUS2.56/14 ITS2.56/14 ROSEBURG 14" RFPI 40s IUS2.56/14 ITS2.56/14 WEYERHAEUSER 14" TJI 210 IUS2.06/14 ITS2.06/14 WEYERHAEUSER 14" TJI 210 IUS2.06/14	MANUFACTURER	DEPTH	SERIES	SIMPSON FACE MOUNT HGR	SIMPSON TOP FLANGE HGR
	BOISE CASCADE	14"	BCI 5000s	IUS2.06/14	ITS2.06/14
	BOISE CASCADE	14"	BCI 6000S	IUS2.37/14	ITS2.37/14
	LP CORP	14"	LPI 20+	IUS2.56/14	ITS2.56/14
	NORDIC	14"	NI 40X	IUS2.56/14	ITS2.56/14
	ROSEBURG	14"	RFPI 40s	IUS2.56/14	ITS2.56/14

JOISTS NOT LISTED IN THE ABOVE TABLE MAY BE USED PROVIDED THEY MEET OR EXCEED THE PROPERTIES OF THOSE LISTED. SUBSTITUTE USP BRAND HANGERS WITH FOULVALENT VALUES AS DESIRED.







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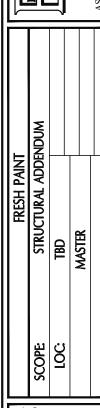
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