### BENSON II

HARRINGTON PLACE LOT 0039



PLAN ID 110122.0101

### 110 VILLAGE TRAIL SUITE 215 WOODSTOCK, GA. 30188

[	DRAWING INDEX
A0.0	COVER SHEET
A1.1	FRONT ELEVATIONS
A2.1	SIDE & REAR ELEVATIONS
A3.1	SLAB FOUNDATION
A5.1	FIRST FLOOR PLANS & DETAILS
A5.2	SECOND FLOOR PLANS & DETAILS
A6.1	ROOF PLANS
A7.2-A7.3	ELECTRICAL PLANS
A8.1	TRIM LOCATION LAYOUTS

AREA TABULATION		
FIRST FLOOR	726	
SECOND FLOOR	1087	
TOTAL	1813	
GARAGE	408	
FRONT PORCH (COVERED)	76	
REAR PATIO	120	

GOVERNMENTAL		$C \pm V V D V D D C$
	$()) \vdash \searrow $	$\sim$ 1 $\Delta$ MIII 1 $\Delta$ R I 1 $\sim$

HOME TO BE BUILT TO CONFORM TO ALL APPLICABLE LOCAL CODES, PRACTICES AND STANDARDS

### BUILDING CODE ANALYSIS / DESIGN CRITERIA

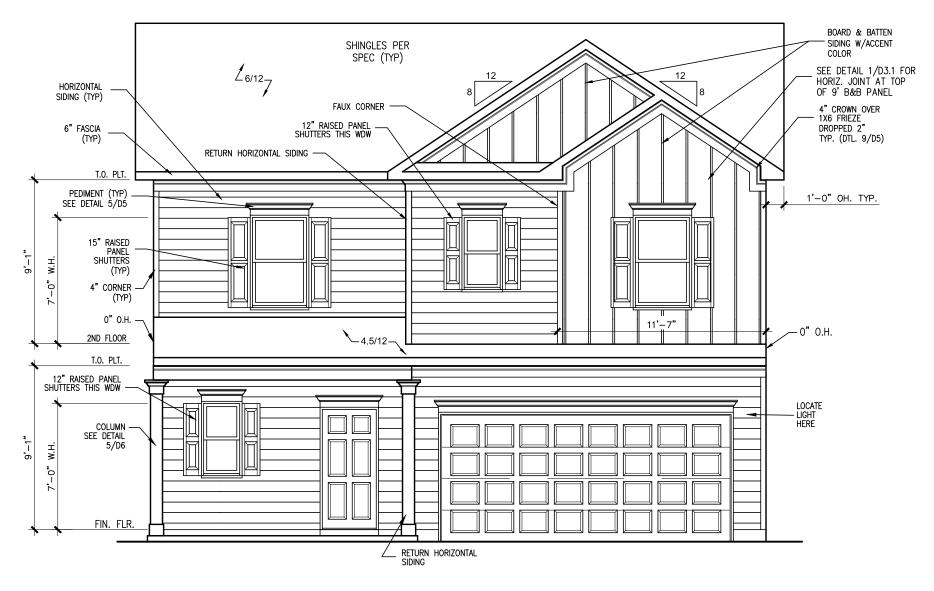
HOME TO BE BUILT TO MEET OR EXCEED ALL LOCAL CODES AND DESIGN CRITERIA

PLAN REVISIONS				
DATE	BY	REVISION	PAGE #	
12/9/2022	AW	Prototype walk revisions - see revision sheet	A5.1, A5.2, A5.2.1,A7.2, A7.3, A7.3.1	
9/21/2023	BB	Removed tub and shower sizes from all affected pages	A5.2, A5.2.1	

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

SEE SHEET D3 OF SDH TYPICAL DETAILS FOR SOFFIT DETAILS PER SOFFIT MATERIAL

### HARRINGTON PLACE LOT 0039



FRONT ELEVATION "A"

SCALE: 3/16"=1'-0"

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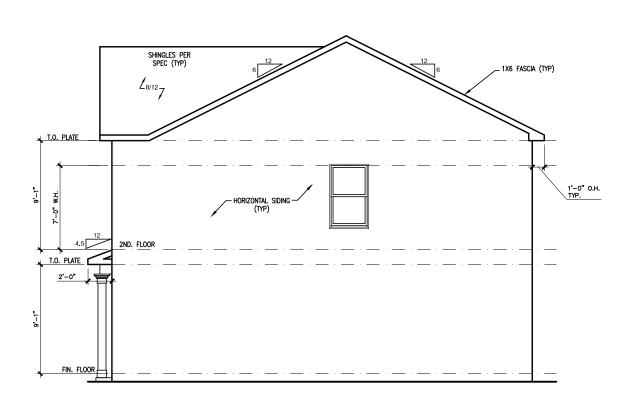
ELEVATIONS

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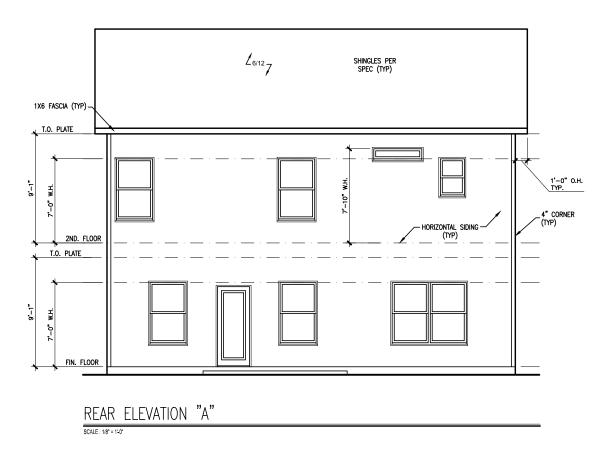


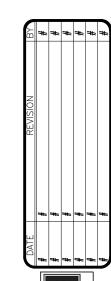
# 1X6 FASCIA (TYP) T.O. PLATE HORIZONTIAL SIDING T.O. PLATE FIN. FLOOR SCHE: 187 197



RIGHT ELEVATION "A"

### HARRINGTON PLACE LOT 0039





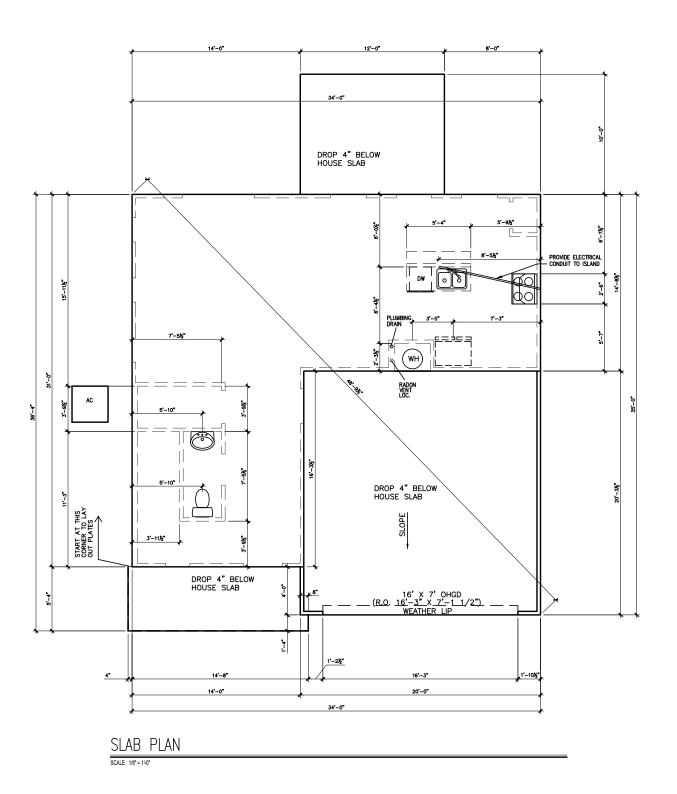


SIDES AND REAR BENSON II

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\*RADON VENT PROVIDED PER LOCAL CODE

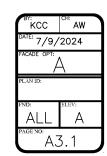
REFER TO DETAIL 3/D1 FOR BRICK LEDGE DETAIL WHEN BRICK VENEER IS CHOSEN

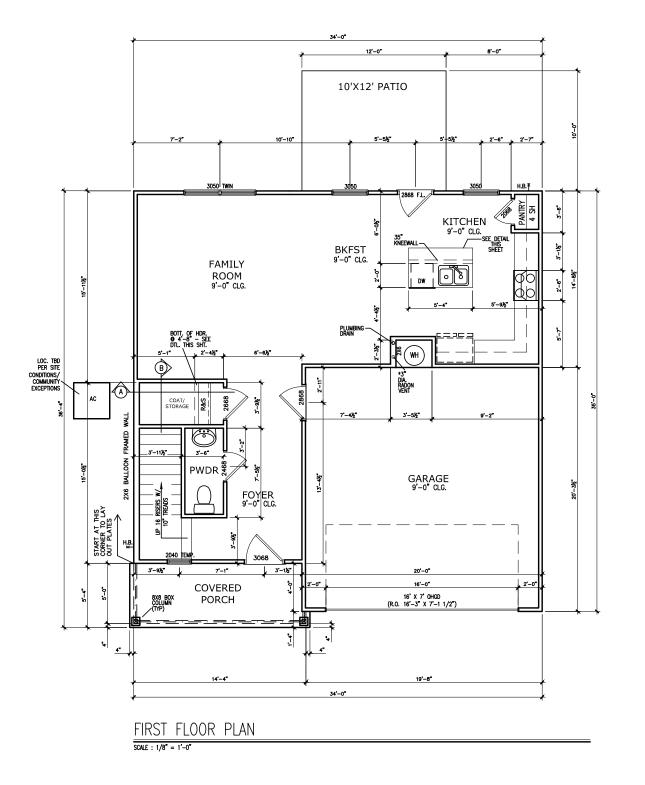
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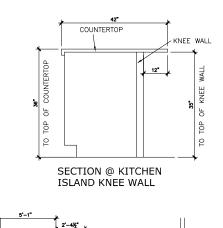
FOUNDATION PLAN SLAB PLAN BENSON II

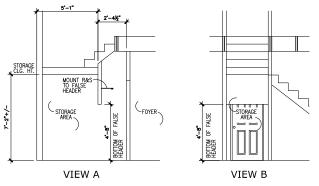
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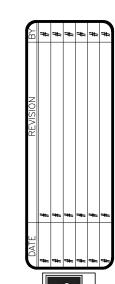




SECTIONS AT COAT/STORAGE CLOSET

\*RADON VENT PROVIDED

PER LOCAL CODE



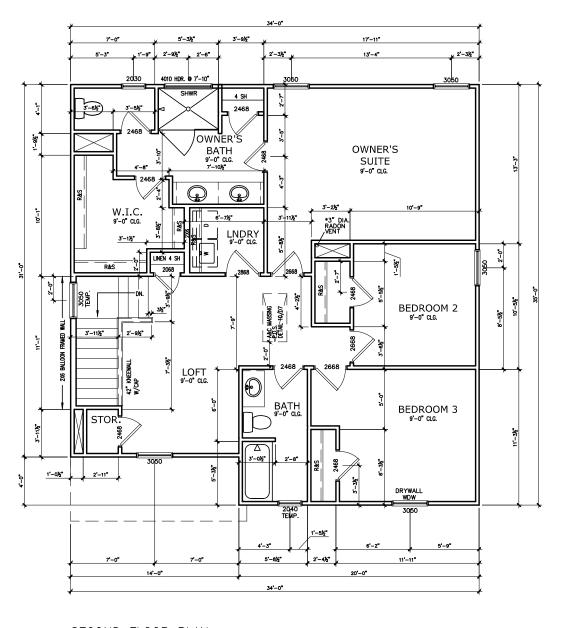




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SECOND FLOOR PLAN

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

\*RADON VENT PROVIDED PER LOCAL CODE

REFER TO MANUFACTURER'S SPECS. FOR DRAIN LOCATIONS ON DETAIL SHEETS D12, D12.1, D12.2 & D12.3

DATE

REVISION

REMISION

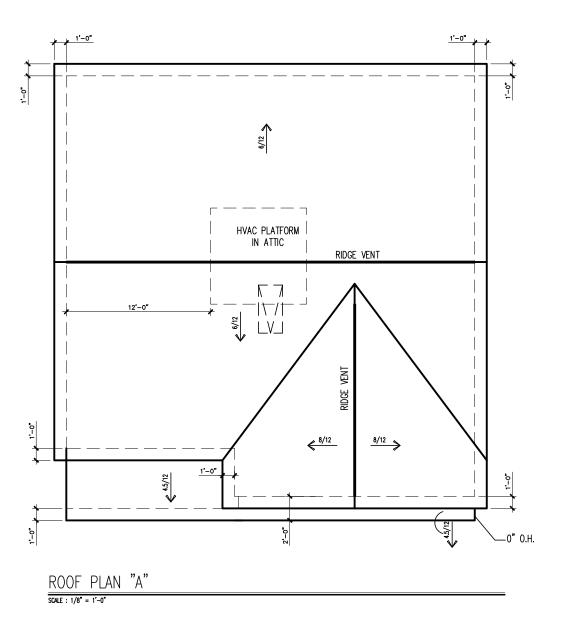


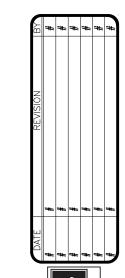


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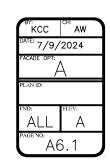


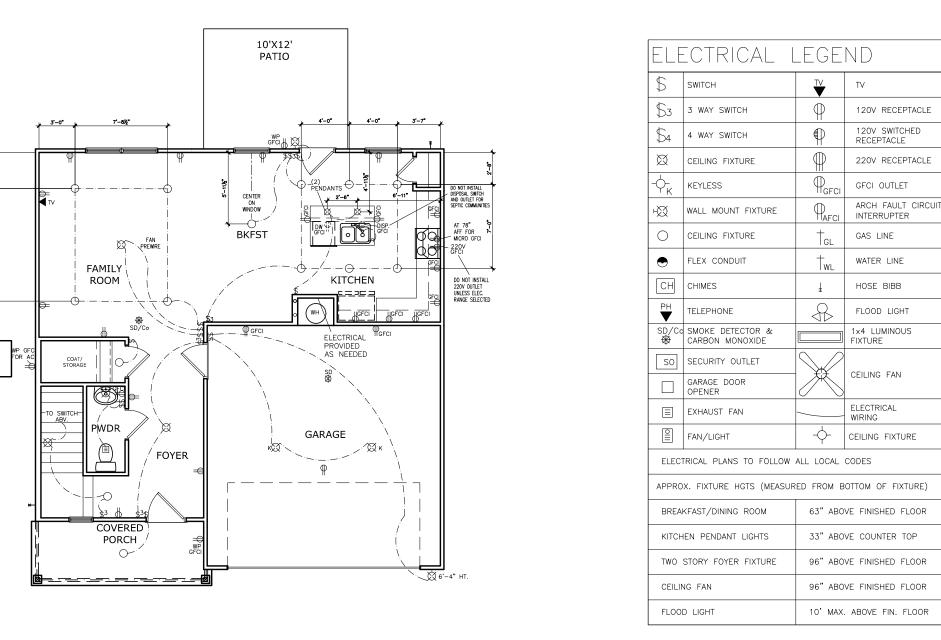




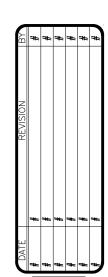
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NOTE: FINAL PLACEMENT OF PHONE/CABLE T.B.D. ON SITE BY THE BUILDER



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

### OWNER'S SUITE OWNER'S BATH W.I.C. BEDROOM 2 BEDROOM 3

### SECOND FLOOR ELECTRICAL PLAN SOALE: 1.18" = 1740"

### HARRINGTON PLACE LOT 0039

ELE	ectrical l	_EGE	ND
\$	SWITCH		TV
\$3	3 WAY SWITCH	φ	120V RECEPTACLE
\$4	4 WAY SWITCH	•	120V SWITCHED RECEPTACLE
Ø	CEILING FIXTURE	•	220V RECEPTACLE
-ф <sub>к</sub>	KEYLESS	P <sub>GFCI</sub>	GFCI OUTLET
ΗØ	WALL MOUNT FIXTURE	PAFCI	ARCH FAULT CIRCUIT
0	CEILING FIXTURE	† <sub>GL</sub>	GAS LINE
•	FLEX CONDUIT	† <sub>wL</sub>	WATER LINE
СН	CHIMES	¥	HOSE BIBB
₽H	TELEPHONE	B	FLOOD LIGHT
SD/Cd ₩	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE
SO	SECURITY OUTLET		
	GARAGE DOOR OPENER		CEILING FAN
≣	EXHAUST FAN		ELECTRICAL WIRING
0	FAN/LIGHT	-\$-	CEILING FIXTURE
ELEC.	TRICAL PLANS TO FOLLOW	ALL LOCAL	CODES
APPRO	X. FIXTURE HGTS (MEASUR	RED FROM B	OTTOM OF FIXTURE)
BREAKFAST/DINING ROOM		63" ABO	VE FINISHED FLOOR
KITCHEN PENDANT LIGHTS		33" ABOVE COUNTER TOP	
TWO STORY FOYER FIXTURE 96" ABOVE FINISHED FLOO		VE FINISHED FLOOR	
CEILING FAN		96" ABO	VE FINISHED FLOOR
FLOO	D LIGHT	10' MAX	. ABOVE FIN. FLOOR
		-	

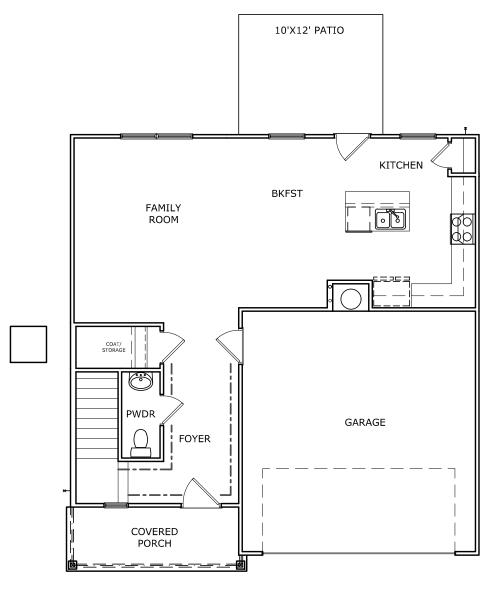
NOTE: FINAL PLACEMENT OF PHONE/CABLE T.B.D. ON SITE BY THE BUILDER



FLOOR BENSON SECOND

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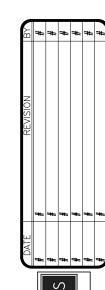




—--- FOYER TRIM - CHAIR/SHADOW

TRIM LAYOUT FIRST FLOOR PLAN

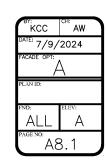
SCALE : 1/8" = 1'-0"

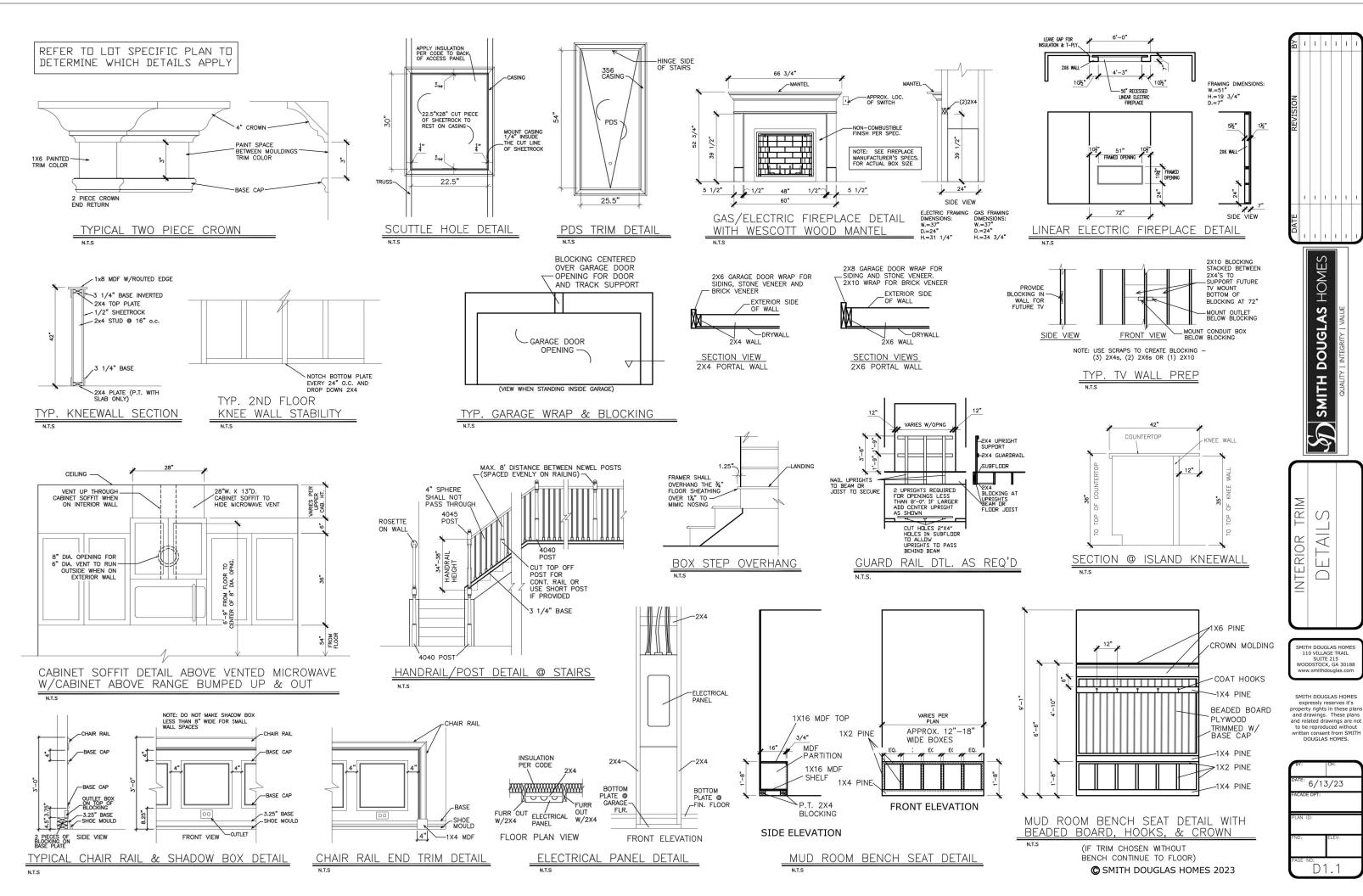




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### CONNECTION SPECIFICATIONS (TYP. U.N.O.)

DESCRIPTION OF BLDG. ELEMENT	3"x0.l3l" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PL. TO JOIST/RIM OR BLK'G	NAILS @ 4" o.c.	NAILS @ 4" O.C.
STUD TO PLATE	(4) TOENAILS/ (3)END NAILS	(4) TOENAILS/ (4)END NAILS*
RIM TO TOP PLATE	TOENAILS @ 6" O.C.	TOENAILS @ 4" o.c.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS EA. END	(3) TOENAILS EA. END*
DOUBLE STUD	NAILS @ 16" o.c.	NAILS @ 16" O.C.
DOUBLE TOP PLATE	NAILS @ 12" o.c.	NAILS @ 8" o.c.
DOUBLE TOP PLATE LAP SPLICE	(12) NAILS IN LAPPED AREA (24" MIN.)	(15) NAILS IN LAPPED AREA (24" MIN.)
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(3) NAILS	(3) NAILS
RAFTER/TRUSS TO TOP PLATE	(4) TOENAILS + (1) SIMPSON H2.5T	(4) TOENAILS + (1) SIMPSON H2.5T
GAB. END TRUSS TO DBL. TOP PL.	TOENAILS @ 8" o.c.	TOENAILS @ 6" o.c.
R.T. w/ HEEL HT. 91/4" TO 12"	2xIO BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 6" O.C.	2xIO BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. 12" TO 16"	2xI2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 6" O.C.	2xI2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. UP TO 24"	LAP WALL SHTG. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT FASTEN W/ NAILS @ 6" O.C.	LAP WALL SHTG. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT FASTEN W/ NAILS @ 6" O.C.*
R.T. w/ HEEL HT. 24" TO 48"	LAP WALL SHTG, W/ DBL, TOP PL. & INSTALL ON TRUSS VERT FASTEN W/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL	LAP WALL SHTG, W/ DBL, TOP PL. & INSTALL ON TRUSS VERT FASTEN W/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL*
WALL TO FOUNDATION	WALL SHTG. LAP W/ SILL PL. & FASTENED PER SHEAR WALL FASTENING SPEC.	

### · 2½",XO.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"XO.120", SAME SPACING OR NUMBER OF NAILS. ONLY ACCEPTABLE WHERE \* ARE SHOWN)

ROOF TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN. MULHERN & KULP CANNOT BE HELD RESPONSIBLE FOR ANY STRUCTURAL ISSUES RELATED TO ANY BUILDING COMPONENT IF COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED TO M&K FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALL ATION.

ADDITIONAL NOTES FOR TRUSS &

I-JOIST MANUFACTURER

TRUSSES/LIGISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUS BEAMS DO NOT EXCEED THE FOLLOWING: A. ROOF TRUSSES:

- I/4" DEAD LOAD ATTIC TRUSSES, & I-JOISTS:
- 1/8" DEAD LOAD

ABSOLUTE DEAD LOAD DEFECTION OF ATTIC TRUSSES WHEN AD JACENT TO ELOOR FRAMING BY OTHERS SHALL BE LIMITED TO 3/16". (NOT DIFFERENTIAL DEFLECTION)

### VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x¼"
	3 FT. MAX	L3"x3"x¼"
6'-0"	I2 FT. MAX	L4"x3"x¼"
	20 FT. MAX	L5"x3½"x5%"
8'-0"	3 FT, MAX	L4"x4"x½" *
0-0	I2 FT. MAX	L5"x3½"x5%"
	I6 FT. MAX	L6"x3½"x3%"
9'-6"	I2 FT. MAX	L6"x3½"x5%"

- L LINIELS: SHALL SUPPORT 2 %" 3 ½" VENEER W 40 psf MAXIMUM WEIGHT IG' SHALL HAVE 4" MIN. BEARING IG' SHALL HAVE 8" MIN. BEARING IG' SHALL NOT BE FASTISHED BACK TO HEADER.

- 4 IS SHALL ROT BE FASIBLED BACK TO HEALER.
  16 SHALL BE FASIBLED BACK TO KOOD HEADER IN WALL \$4800. W ½\* DIA. x 3 ½\* LONG LAS SCREENS IN 2°LONG VERTICALLY SLOTTED HOLES.
  HAX YEBER IN APPLIES TO ANY ROCKION OF BRECK OVER THE OPENING.
  ALL LINTELS SHALL BE LONG LES VERTICAL.
  ALL LINTELS SHALL BE LONG LES VERTICAL.
  WIEHS SUPPORTING VEDERE (3° MICE THE EXTERIOR TOE OF THE HORIZONTAL LEG
  MAY BE CUT IN THE FIELD TO BE 3 ½\* NUES OVER THE BEARING LENGTH ONLY. THIS
  STO ALLON FOR NORTING JOINT RINGHING. PRICTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE
- PARAMETERS. FIN VENEER USE L4x3x½".

### GENERAL STRUCTURAL NOTES

### FOUNDATION

- DESIGN IS BASED ON 2018 NCSBC-RESIDENTIAL CODE \$ 2018 IRC WITH SOUTH CAROLINA AMENDMENTS
- FOOTING DESIGN 2,000 PSF NET ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2×4/6 SILL PLATES TO CONC FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING I/2" DIA. ANCHOR BOLTS @ 6'-0" O.C.7" MIN. EMBEDMENT
- FA4 ANCHOR STRAPS @ 6'-0" O.C
- EASTEN 2xIO SILL PLATES TO PRECAST BOMT WALLS WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:
- I/2" DIA. BOLTS @ 2'-0" O.C ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W PERIMETER
- FOUNDATION SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2. BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED
- WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD. FOUNDATION WALLS & FOOTINGS SHALL BE PLAIN CONCRETE, U.N.O
- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
  - f'c = 4,000 psi: ...... FOUNDATION WALLS 3,000 psi: ...... FOOTINGS & INTERIOR SLABS ON GRADE 3,500 psi: ...... GARAGE & EXTERIOR SLABS ON GRADE = 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
  - . 8' OR 9' HEIGHT (AS NOTED ON PLANS) TALLER WALLS MUST BE ENGINEERED.
- BASEMENT WALL DESIGN IS BASED ON 30 OR 45 PCF BACKFILL SOIL TYPE CLASSIFICATIONS:
  - 30 PCF TYPE (GW, GP, SW, SP) 45 PCF TYPE (GM, GC, SM, SM-SC, ML)
  - IMPORTANT IF 60 PCF SOIL TYPE (SC, ML-CL, OR CL) IS UTILIZED FOR BACKELL, CONTACT MULHERN & KULP FOR FURTHER EVALUATION OF FOUNDATION DESIGN
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE (TYP.) OR 12" MIN IN REGIONS WHERE CODE FROST DEPTH IS NOT APPLICABLE. CONSULT SOILS REPORT OR BUILDING DEPT. FOR MINIMUM DEPTH BELOW
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.
- JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM)
- JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (I:I RATIO), WITH A MAXIMUM OF I:I.5 RATIO · CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL
- COVER WHERE CAST AGAINST FARTH LI/2" MIN CLEAR COVER AGAINST FORMS. LAP ALL REBAR 48 BAR DIAMETERS MIN. (24' FOR #4 BARS) & BEND BARS AND LAP AT CORNERS PROVIDE 6" HOOK INTO SUPPORTING FOOTINGS WHEN FOOTINGS INTERSECT.
- DIMENSIONS BY OTHERS, BUILDER TO VERIEY.

### LEGEND

R.T. NDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUE. (TYP. U.N.O.)

OF. INDICATES TRUSS OVERFRAMING • 24" O.C. (TYP. U.N.O.)

INDICATES 14" DEEP FLOOR I-JOISTS @ 24" O.C. MAX JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX, IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

- INDICATES LOCATIONS OF POTENTIAL TILE FLOOR - JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS
- INTERIOR BEARING WALL
- □□□□□ BEARING WALL ABOVE (B.W.A.)

- INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

### LATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: MPH WIND IN 2018 NCSBC:Ri

20MPH WIND IN 2018 IRC (120 MPH WIND SPEED IN ASCE 7 WIND MAP PER IRC R301211) EXP. B. RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 & 2018 IBC SECTION 1609) & ASCE 7 AS PERMITTED BY R30113 DE THE 2018 NOSBO:RC & 2018 IRC. ACCORDINGLY THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC & 2018 IRC SECTION R802.II.I.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIET LOAD PATH PER SECTIONS R602.3.5¢ R802.II.

### EXT. WALL SHEATHING SPECIFICATION

- •7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 8"XO.II3 NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP, U.N.O.)
- ALL SHEATHING PANELS SHALL BE ORIENTED

  VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR -2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT, STAPLE CONNECTION SPEC: 1 3/4 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C IN FIELD.

### 3" O.C. EDGE NAILING

AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W 2 3" x 0.113" NAILS @ 3" O.C. AND 12" O.C. IN THE PANEL FIELD NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUD) AND INSTALLED FULL HEIGHT OF SHEAR MALL - OR - 2X HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" OC FDGE FASTENING

### **NOTES**

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED w/ OSB OR PLYWOOD w/ 3" x 0.120 NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWALL, AND/OR 3" O.C. EDGE NAILING

NDICATES HOLDOWN

### NON-BEARING HEADER SCHEDULE

SPAN	2x4 NON-BEARING PARTITION WALL	2x6 NON-BEARING PARTITION WALL
JP TO 3'-0"	(I)2x4 FLAT	(I)2x6 FLAT
JP TO 6'-0"	(2)2x4	(3)2x4
JP TO 8'-0"	(2)2×6	(3)2x6

ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 24" O.C. (MAX.)

### FLOOR FRAMING

- I-JOISTS SHALL BE DESIGNED BY MANUF, TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES STONE/MARBLE OR WET BED CONSTRUCTED FLOORS - CONTACT M&K FOR EXCLUDED FLOOR DESIGNS)
- PER THE GUIDELINES OF THE TILE COUNCIL OF NORTH AMERICA (TCNA HANDBOOK), IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO VERIFY THAT THE FINISHES TO BE INSTALLED MATCH THE DESIGN CRITERIA NOTED ABOVE (UNDER "DESIGN
- FLOOR SYSTEMS & SHEATHING HAVE BEEN DESIGNED TO SUPPORT. ADDITIONAL DEAD LOAD FROM CERAMIC TILE (EXCLUDING MARBLE OR STONE). HOWEVER, IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO PROVIDE PROPER UNDERLAYMENT, UNCOUPLING MEMBRANE AND MORTAR/GROUT PER THE ASSEMBLY DESIGNATIONS IN THE TONA HANDBOOK (TILE COUNCIL OF NORTH AMERICA).
- AT I-JOIST FLOORS, PROVIDE I" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O. • I-JOIST SHOP DWGS. SHALL BE SUBMITTED TO ARCH. & ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR 24" O.C., EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND
- 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12"o.c. FIELD.
- 2 3" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD. - 2 🖁 × 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD

### ROOF FRAMING

- ROOF SHEATHING SHALL BE 1/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS
- W/ 2 ½" × 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12" O.C. FIELD. - w/ 2 🖁 × 0.120" NAILS @ 4"o.c. @ PANEL EDGES & @ 8" O.C. FIELD. - w/ 2 🖣 × 0.113" NAILS @ 3"o.c. @ PANEL EDGES & @ 6" O.C. FIELD.
- WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPS FASTEN ROOF SHEATHING FIELDS PER EDGE NAILING SPEC.
- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ USP RTTA CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) RTTA CLIPS AT 2-PLY GIRDER TRUSSES, (3) RT7A CLIPS AT 3-PLY
- GIRDER TRUSSES & ROOF BEAMS AT ALL BEARING POINTS METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ROOF TRUSS SHOP DWGS. SHALL BE SUBMITTED TO ARCH & ENG.
  FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I "GIIDF TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING

OF METAL PLATE CONNECTED WOOD TRUSSES."

• SUPPORT SHORT SPAN ROOF TRUSSES w/2x4 LEDGER FASTENED TO FRAMING w/(2) 3" x 0.120" NAILS @ 16" O.C. (UP TO 7' SPAN).

### MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO; FOUNDATIONS SLABS ON GRADE BEAMS WALLS AND NON-BEARING LEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY CONTRACTUAL, INDUSTRY, OR WARRANTY TOLERANCES.

### GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NOSBC-RESIDENTIAL CODE & 2018 IRC WITH SOUTH CAROLINA AMENDMENTS
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

LIVE = 20 PSF DEAD = 1 PSF T.C., 10 PSF B.C ROOF LOAD DURATION FACTOR = 1.25

FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS)

ADD'L IO PSF @ CERAMIC TILE IN BATHS & LAUND.

2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

### GENERAL FRAMING

- CONNECTIONS TABLE (IRC. TABLE R6023(I)) OR ON PLANS ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION, ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- EXT. & INT. BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SPF/SP "STUD" GRADE LUMBER, OR BETTER, U.N.O. WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL INTERIOR BEARING WALLS ARE ASSUMED TO BE SHEATHED W/ GYP WALL BOARD (ONE SIDE MIN.) OR PROVIDE MID HT. BLOCKING.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SP) LUMBER, OR BETTER. SUPPORT ALL HEADERS/ BEAMS W (1)2x JACK STUD & (1)2x
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O.. ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED

(I)2x4/6 FLAT @ OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'.

- WITH 2x 'STUD' GRADE MEMBERS SPACED @ 24" O.C. (MAX., U.N.O.) HEADERS IN NON-LOAD BEARING WALLS SHALL BE:
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15). PENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING
- 'LVL' Fb=2600 psi; Fv=285 psi; E=2.0x10^6 psi
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING: • 'LVL' - Fb=2400 psi; FcII=2500 psi; E=I.8xI0^6 psi
- FOR 2 & 3 PLY BEAMS OF EQUAL  $1\frac{3}{4}$ " MAX, WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS USP WS35 SCREWS (OR 3K" TRUSSLOK SCREWS) @ 16" O/C, USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER.

  APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3½" OR 5½" BEAMS ARE ACCEPTABLE, USE 2 ROWS OF NAILS FOR 2x6 & 2x8
- FOR 4 PLY BEAMS OF FOUAL 13/4" MAX WIDTH FASTEN PLIES SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER, APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND/BEARING. BLOCKING TO MATCH POST ABOVE.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE USP BCS22-4 CAP \$ PA44E BASE, U.N.O.
- - BUILDER RESPONSIBLE TO DETERMINE CORROSION-RESISTANCE REQUIREMENTS AND COMPATIBILITY OF HARDWARE EASTENERS AND CONNECTORS FOR ENVIRONMENTAL EXPOSURE AND IN CONTACT W/ PRESERVATIVE-TREATED WOOD OF ACTUAL FINAL CONDITIONS AND SOURCED MATERIALS. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- ALL FASTENERS AND CONNECTORS EXPOSED TO SALT WATER (WITHIN 300' OF SALT WATER SHORELINE, INCLUDING VENTED SPACES) SHALL BE STAINLESS STEEL.

MULHERN+KUL RESIDENTIAL STRUCTURAL ENGINEER! C-3825



Mulhern+Kulp project numbe

256-22019

SMK RAF issue date: 01.13.2023

REVISIONS

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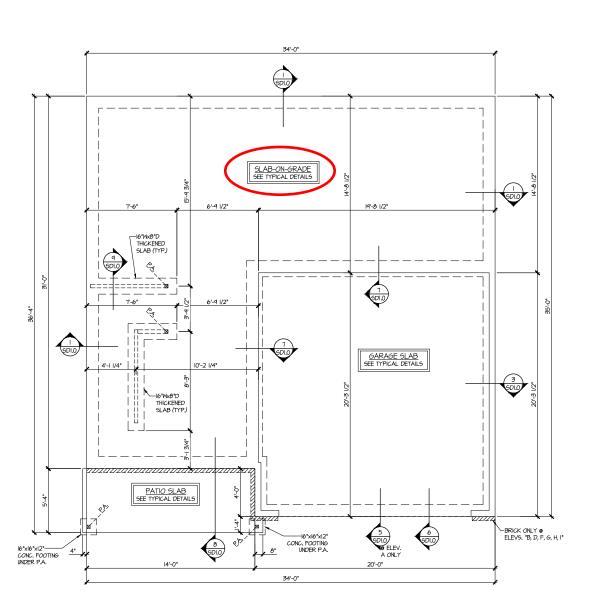
SMITH DOUGI HOMES

NOTES MODE STRUCTURAL

ZONI WIND BENSON 120 N

GENERAL

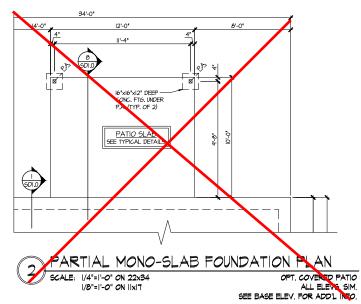
HARRINGTON Lot 39

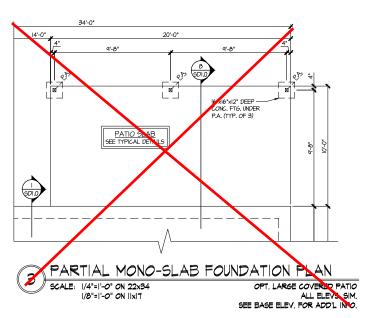


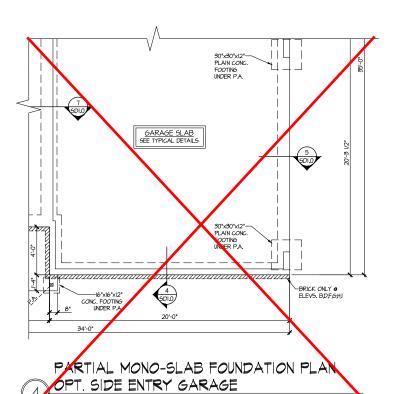
MONO-SLAB FOUNDATION PLAN

ALL ELEVS, SIM.

SCALE: 1/4"=1'-0" ON 22x34 1/8"=1'-0" ON 11x17







SCALE: 1/4"=1'-0" ON 22x34

### HARRINGTON Lot 39

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

ALL ELEV. SIM.

### LEGEND

R.T. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)

OF. INDICATES TRUSS OVERFRAMING • 24" O.C. (TYP. U.N.O.)

INDICATES 14" DEEP FLOOR I-JOISTS @ 24" O.C.

MAX. JOIST SERIES AND SPACING SHALL BE THE
RESPONSIBILITY OF THE MANUFACTURER
NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. - JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS.

INTERIOR BEARING WALL

• ==== BEARING WALL ABOVE (B.W.A.)

• --- BEAM/HEADER

• JL METAL HANGER

• # INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

MULHERN+KULP RESIDENTIAL STRUCTURAL ENSINEERINS 202 Beckele Perkey, Sale 305 • Agin 2772-77-2674 • material parameters NC License # C-3825 Mulhern+Kulp project number: 256-22019 issue date: 01.13.2023

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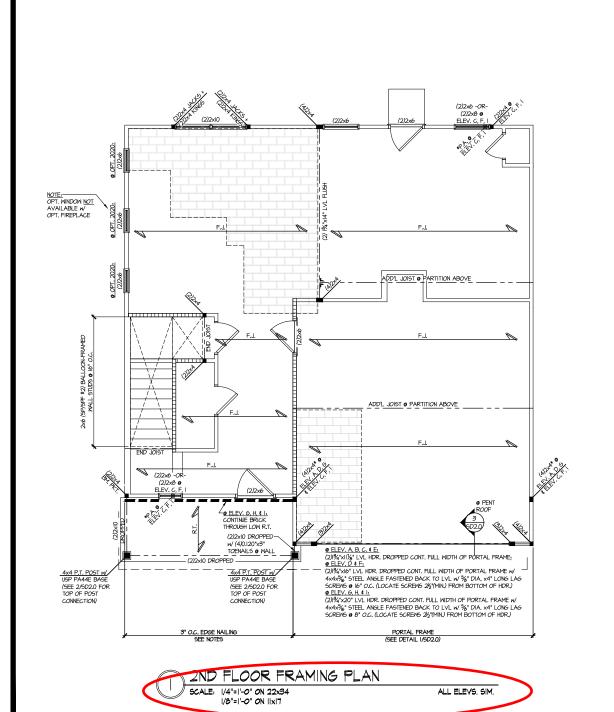
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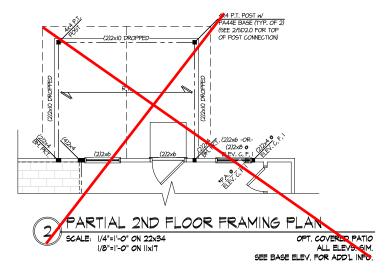
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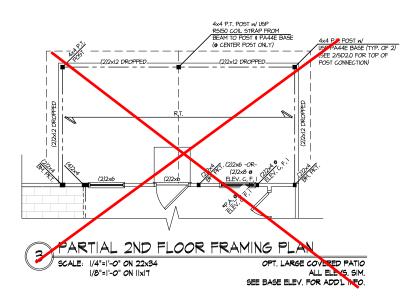
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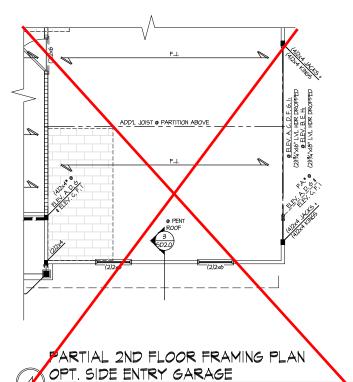
BENSON MONO-SLAB

120 MPH WIND ZONE NORTH CAROLINA









SCALE: 1/4"=1'-0" ON 22x34

HARRINGTON Lot 39

ALL ELEV. SIM.

THIS LEVEL HAS BEEN DESIGNED FOR 9'-I" PLATE HEIGHT

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

### LEGEND

R.T. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)

OF INDICATES TRUSS OVERFRAMING • 24" O.C. (TYP. U.N.O.)

F.J. INDICATES 14" DEEP FLOOR 1-JOISTS @ 24" O.C.
MAX. JOIST SERIES AND SPACING SHALL BE THE
RESPONSIBILITY OF THE MANUFACTURER NOTE: I4" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. - JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS.

INTERIOR BEARING WALL

● □□□□□ BEARING WALL ABOVE (B.W.A.)

• --- BEAM/HEADER

• JL METAL HANGER

INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

7/14/23

2855 Brackale Perkway, Suhr 1965 - Agin 2778-777-8974 - mathemicalponer NC License # C-3825

Mulhern+Kulp project number: 256-22019

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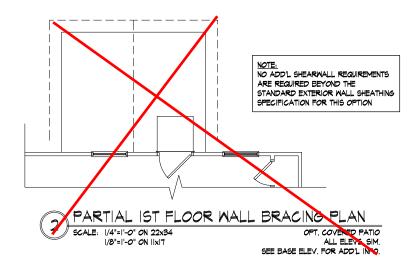
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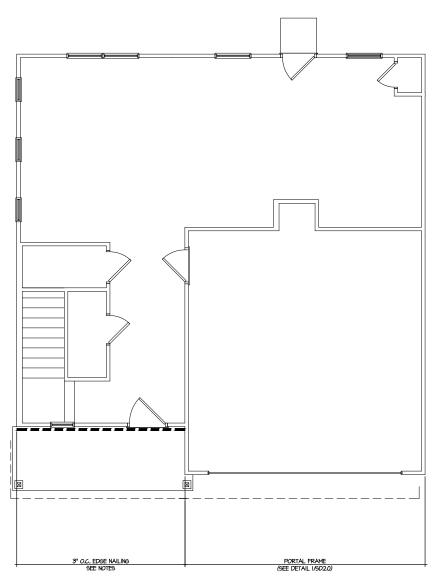
PLAN MODEL FRAMING  $\square$ FLOOR BENSON

120 MPH WIND ZONE NORTH CAROLINA

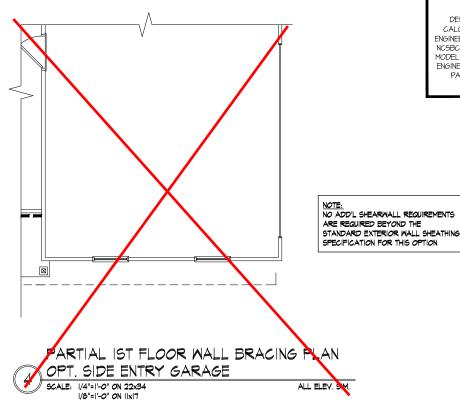
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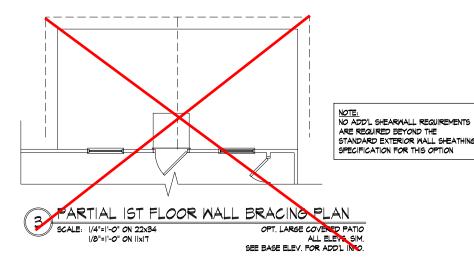
**S2.0** 





IST FLOOR WALL BRACING PLAN SCALE: 1/4"=1'-0" ON 22x34 ALL ELEVS. SIM. 1/8"=1'-0" ON 11x17





### ATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: OMPH WIND IN 2018 NGSBC:RO

### **& 120MPH WIND IN 2018 IRC** (120 MPH WIND SPEED IN ASCE 7

WIND MAP, PER IRC R301.2.1.1) EXP. B. RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 \$ 2018 IBC (SECTION 1609) & ASCE 7, AS PERMITTED BY R301.1.3 OF THE 2018 NCSBC:RC & 2018 IRC. ACCORDINGLY THIS MODEL. AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC & 2018 IRC SECTION R802.11.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5\$ R802.II.

### EXT. WALL SHEATHING SPECIFICATION

7/16" *0*5B *0*R 15/32" PLYW0*0*D: FASTEN SHEATHING W/ 2 3 XO.113 NAILS @ 6" O.C. A EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP, U.N.) ALL SHEATHING PANELS SHALL BE ORIENTED

VERTICALLY (LONG DIRECTION PARALLEL TO STUDS AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE

ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.

ALT STAPLE CONNECTION SPEC: 13/116 GA STAPLES (1/6" CROWN) • 3" O.C. AT EDGES € • 6" O.C IN FIELD.

### 3" O.C. EDGE NAILING

AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 2 3 × 0.113" NAILS @ 3" O.C. AND 12" O.C. IN THE PANEL FIELD NO STAPLE ALTERNATIVE AVAILABLE
AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUD) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

### **NOTES**

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN,
- DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING
- FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

- IT WILL BE SPECIFICALLY NOTED ON PLAN.
- PRE-MANUFACTURED PANELIZED WALLS:

INDICATES EXTENT OF INT. OSB
SHEARWALL, AND/OR 3" O.C. EDGE NAILING

► INDICATES HOLDOWN

### HARRINGTON Lot 39

THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

### LEGEND

R.T. NDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)

OF. INDICATES TRUSS OVERFRAMING © 24" O.C. (TYP. U.N.O.)



F.J. NDICATES 14" DEEP FLOOR 1-JOISTS @ 24" O.C.
MAX. JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. - JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS

• IIIIIIII INTERIOR BEARING WALL

■ □□□□□ BEARING WALL ABOVE (B.W.A.)

• --- BEAM/HEADER

• JL METAL HANGER

INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENSINERING
RESIDENTIAL ENSINERING



Mulhern+Kulp project number:

256-22019

SMK RAF issue date: 01.13.2023

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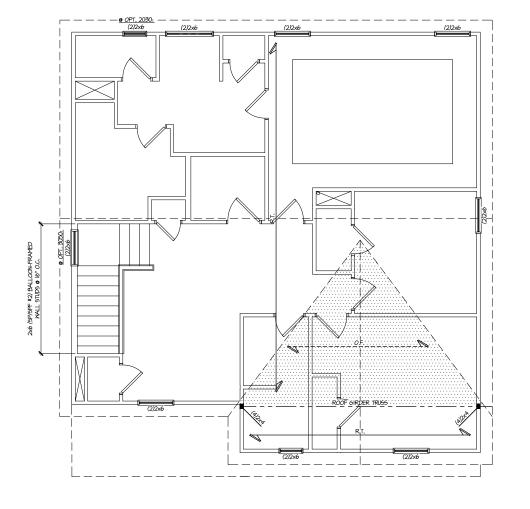
SMITH DOUGLAS HOMES

PLAN

BRACING MODEL WALL BENSON OOR Ľ

ZONE Ina 120 MPH WIND Z NORTH CAROLII

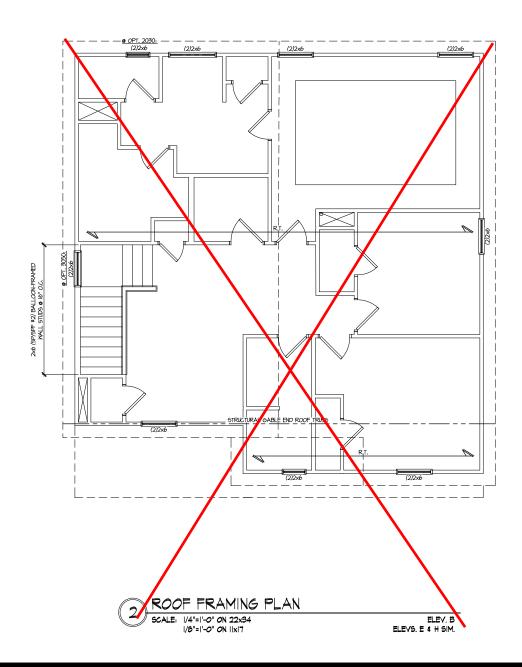
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ROOF FRAMING PLAN

ELEV. A ELEVS. D & G SIM

SCALE: |/4"=|'-0" ON 22x34 |/8"=|'-0" ON ||x|7





THIS LEVEL HAS BEEN DESIGNED FOR 9'-I" PLATE HEIGHT

RT. INDICATES ROOF TRUSSES © 24" O.C. PER ROOF.
MANUF. (TYP. UNLO.)

OF. INDICATES TRUSS OVERFRAMING ©
24" O.C. (TYP. UNLO.)



F.J. INDICATES 14" DEEP FLOOR 1-JOISTS @ 24" O.C.
MAX. JOIST SERIES AND SPACING SHALL BE THE
RESPONSIBILITY OF THE MANUFACTURER
NOTE: 14" FLOOR TRUSESS @ 24" O.C. MAX. IS AN
ACCEPTABLE ALTERNATE FLOOR SYSTEM

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR.
JOIST MANUFACTURER SHALL DESIGN FLOOR
SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS.

INTERIOR BEARING WALL

• CTTT BEARING WALL ABOVE (B.W.A.)

• JL METAL HANGER

REFER TO SO.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

### LEGEND

• — BEAM/HEADER

INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

ROOF

FRAMING PLAN

**S3.0** 

BENSON II MODEL

120 MPH WIND ZONE NORTH CAROLINA

MUCHERNAL STRUCTURAL ENGINEERING
TESTINGHAMEN, SATE NO. ANTER SATE
TO THE SATE OF THE THE SATE

Mulhern+Kulp project number:

REVISIONS:

256-22019

issue date: 01.13.2023

SMITH DOUGLAS HOMES

SMK RAP

initial:

### SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM: OMPH WIND IN 2018 NCSBC:R

### **& 120MPH WIND IN 2018 IRC**

(120 MPH WIND SPEED IN ASCE 7 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 \$ 2018 IBC (SECTION 1609) & ASCE 7, AS PERMITTED BY R301.1.3 OF THE 2018 NCSBC:RC & 2018 IRC. ACCORDINGLY THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC & 2018 IRC SECTION R802.11.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5¢ R802.II.

### \_ATERAL/WALL BRACING & WALL

ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE

FASTEN SHEATHING W/ 2 3 XO.113 NAILS @ 6" O.C. A
EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP, U.N.

EXT. WALL SHEATHING SPECIFICATION

• ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.

• ALT. STAPLE CONNECTION SPEC: I  $\frac{3}{4}$ " I6 GA STAPLES ( $\frac{6}{6}$ " CROWN) • 3" O.C. AT EDGES \$ • 6" O.C IN FIELD.

### 3" O.C. EDGE NAILING

AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W/ 2 3 × 0.113" NAILS @ 3" O.C. AND 12" O.C. IN THE PANEL FIELD NO STAPLE ALTERNATIVE AVAILABLE
AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUD) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

### **NOTES**

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB
SHEARWALL, AND/OR 3" O.C. EDGE NAILING

▶ INDICATES HOLDOWN



7/14/23

Mulhern+Kulp project number:

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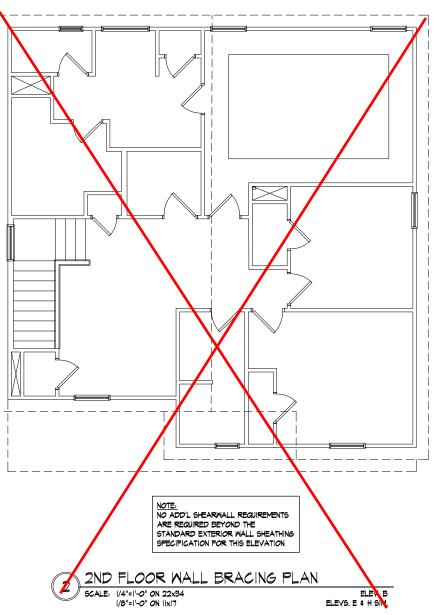
SMITH DOUGLAS HOMES

PLAN BRACING WALL

MODI FLOOR BENSON 2ND

120 MPH WIND ZONE NORTH CAROLINA

**S3.01** 





THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

### LEGEND

R.T. NDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)

OF. INDICATES TRUSS OVERFRAMING • 24" O.C. (TYP. U.N.O.)

INDICATES 14" DEEP FLOOR 1-JOISTS @ 24" O.C.
MAX. JOIST SERIES AND SPACING SHALL BE THE
RESPONSIBILITY OF THE MANUFACTURER NOTE: 14" FLOOR TRUSSES @ 24" O.C. MAX. IS AN ACCEPTABLE ALTERNATE FLOOR SYSTEM

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. JOIST MANUFACTURER SHALL DESIGN FLOOR
SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS.

INTERIOR BEARING WALL

• □=== BEARING WALL ABOVE (B.W.A.)

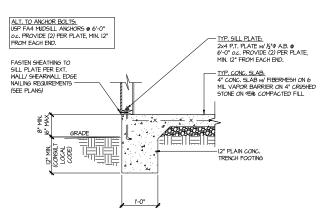
BEAM/HEADER

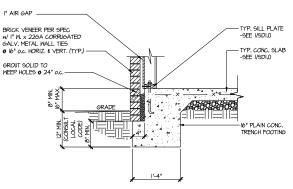
• JL METAL HANGER

INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

NOTE: NO ADD'L SHEARWALL REQUIREMENTS ARE REQUIRED BEYOND THE STANDARD EXTERIOR WALL SHEATHING SPECIFICATION FOR THIS ELEVATION

2ND FLOOR WALL BRACING PLAN SCALE: 1/4"=1'-0" ON 22x34 ELEV. A 1/8"=1'-0" ON 11x17 ELEVS. D & G SIM.

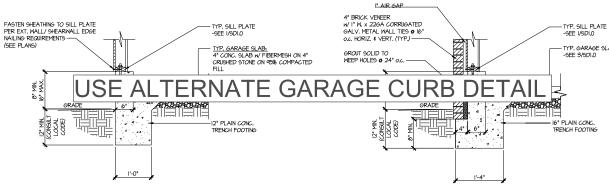




TYPICAL SLAB ON GRADE

w/ BRICK VENEER

2 PERIMETER FOOTING



OPT. BRICK (SEE ARCH FOR LOCATIONS)

FASTEN SHEATHING TO-

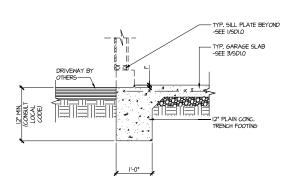


TYPICAL SLAB ON GRADE GARAGE

PERIMETER FOOTING

W DRICK VENEER

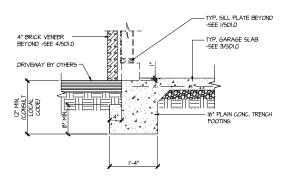
https://www.staplesadvantage.com/staples-mesh-task-chair-black/product\_24588453



TYPICAL SLAB ON GRADE

PERIMETER FOOTING

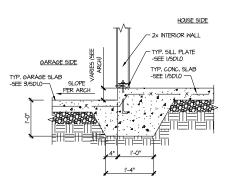




TYPICAL SLAB ON GRADE GARAGE

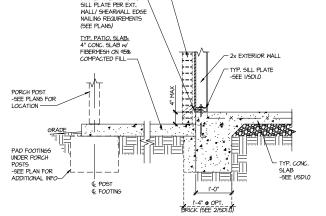
(6) ENTRY @ PERIMETER FOOTING

NY BRICK YENER



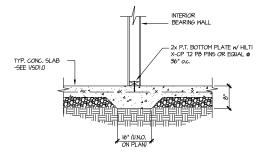
TYPICAL MONOLITHIC INTERIOR

GARAGE FOOTING



TYPICAL SLAB ON GRADE PERIMETER

FOOTING @ PORCH/PATIO



TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL

HARRINGTON Lot 39

SEAL CAPO TO THE PROPERTY OF T

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERINS

# C-3825

**Y** 

Mulhern+Kulp project number:
256-22019
project mgr: SMK

drawn by: RAF issue date: 01.13.2023

REVISIONS:
date: initial:

SMITH DOUGLAS HOMES

FOUNDATION DETAILS
BENSON II MODEL

120 MPH WIND ZONE NORTH CAROLINA

SD1.0



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

3625 Brookside Parkway, Suite 165, Alpharetta, GA 30022 🔻 p 770-777-0074 🔻 mulhernkulp.com

August 18, 2023

lody Hunt

Director of Product Development

## **SMITH DOUGLAS HOMES**

110 Village Trail, Suite 215 Woodstock, GA 30188

## **ALTERNATE GARAGE CURB DETAIL**

### Smith Douglas Homes

### Reference

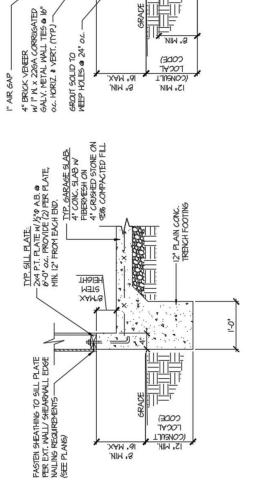
Current Structural Plans prepared by Mulhern & Kulp

Jody:

Pursuant to your request, we have prepared this letter to address the "Alternate Garage Curb Details", prepared by Mulhern & Kulp for these are an acceptable alternative to the 6" wide curb at the garage per M&K foundation details 3 & 4 on sheet SD-1.0 at 2x4 garage Smith Douglas Homes shown below. The foundation details shown below call for a 4" wide curb with a maximum of 8" stem wall height; wall locations.

TYP. SILL PLATE. 2x4 P.T. PLATE W/K'O AB. 6 6-0" 0x. PROVIDE (2) PER PLATE, MIN. 12" FROM EACH BND.

8"MAX. STEM HEIGHT



.XAM "&

NIM .8

CODE) 1007 (CON€0LT 12" MIN.

TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING 

TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

1

Please feel free to call if you have any questions.

MANDER

Respectfully,

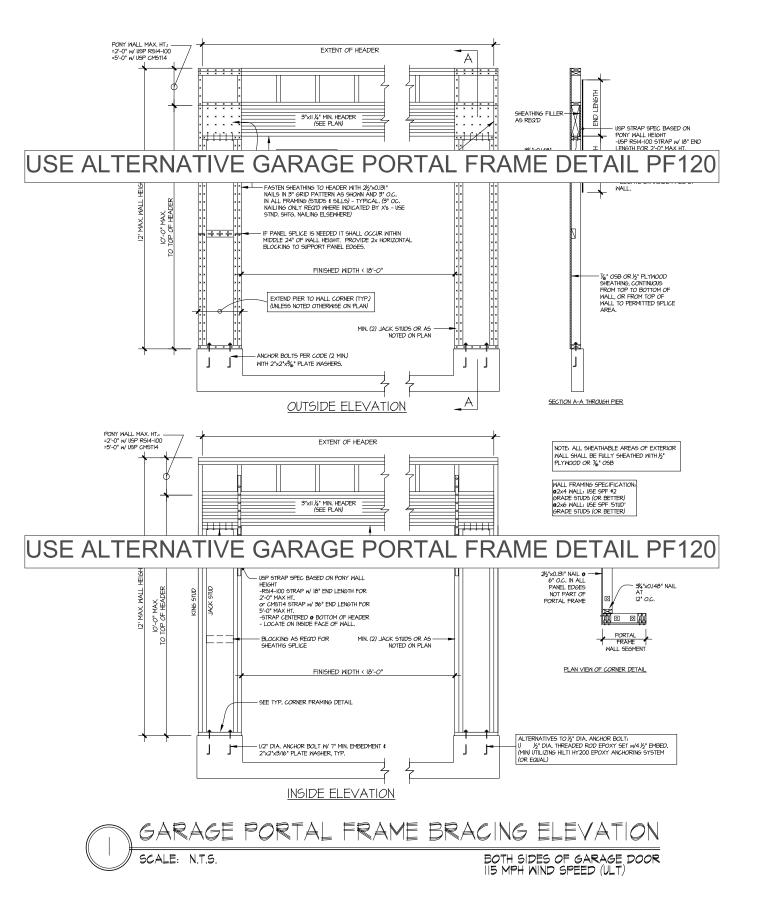
# **MULHERN & KULP STRUCTURAL ENGINEERING, INC.**

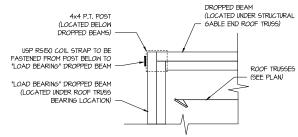
NC License # C-3825

Project Manager + Atlanta Office Director Shaun M. Kreidel, P.E.

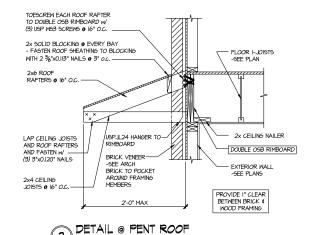


P:|Client Files|256 - Smith Douglas Homes|2023|23000 - 2023 Client Admin|2023-08-17 - 4in Garage Curb Letter|Alternate Garage Curb Detail - Letter - NC.docx





COVERED PORCH CONNECTION DETAIL



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENSINEERINS 265 Backeith Parkway, Suite 266 + Agrid 2-778-777-4804 - mathemicapaen NC License # C-3825

Mulhern+Kulp project number: 256-22019

SMK drawn by: RAP issue date: 01.13.2023

REVISIONS:

initial:

SMITH DOUGLAS HOMES

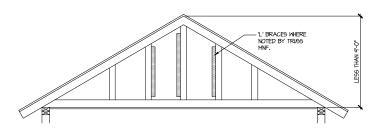
MODEL 

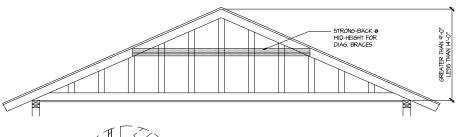
ZONE

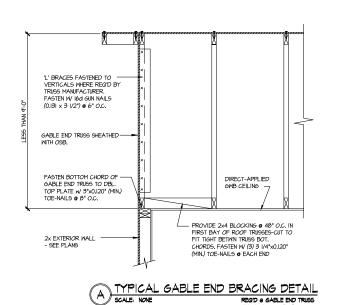
FRAMING DETAILS 120 MPH WIND Z NORTH CAROLII BENSON

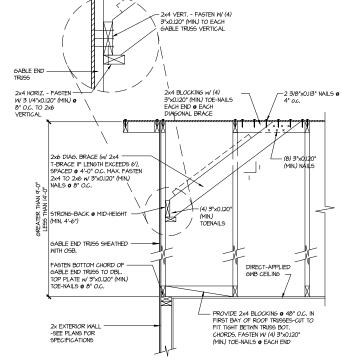
**SD2.0** 

HARRINGTON Lot 39









BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT IS LESS THAN 9-0'. 'L' BRACES REQUIRED WHERE NOTED BY TRUSS MANUFACTURER.

BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT EXCEEDS 9'-0'. 'L' BRACES NOT REQUIRED.

B TYPICAL GABLE END BRACING DETAIL SCALE: NONE REGO @ GABLE END TRUSS

REQ'D & GABLE END TRUSS HEIGHT BETW'N 9'-0" TO 14'-0"

LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS.

> HARRINGTON Lot 39

MULHERNHAL STRUCTURAL ENGINEERING SES ENGLISHERING, SER SE - ADDRESS STREET STRUCTURES - ADDRESS STREET STRUCTURES STRUCT Mulhern+Kulp project number: 256-22019 issue date: 01.13.2023 REVISIONS: SMITH DOUGLAS HOMES

7/14/23

SMK RAP

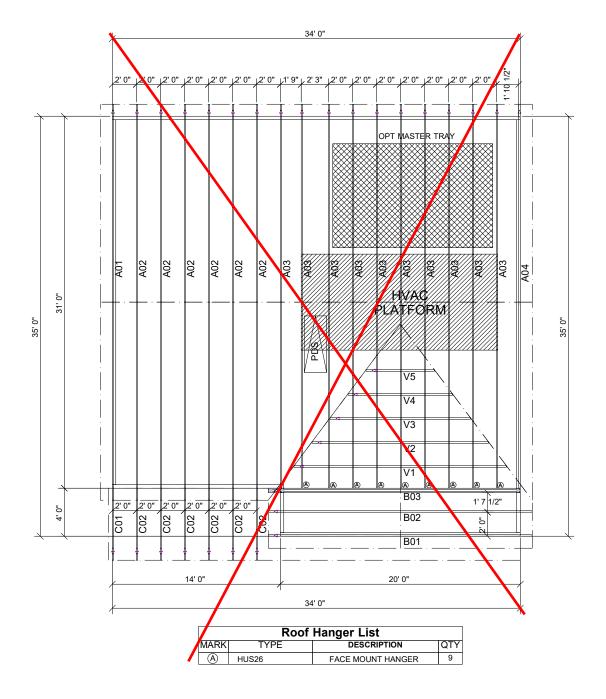
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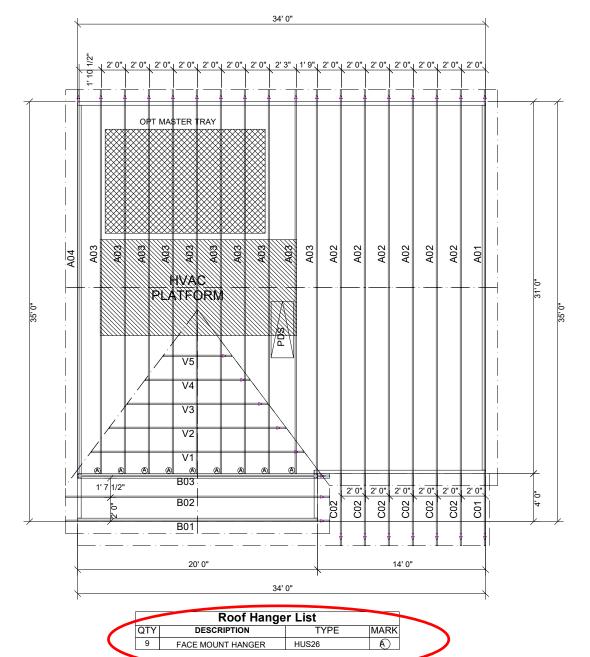
MODEL FRAMING DETAILS

120 MPH WIND ZONE NORTH CAROLINA BENSON II

**SD2.1** 

### 72420516 39 HARRINGTON PLACE





**UFP** SITE BUILT A UPP INDUSTRIES COMPANY TRUSSIRAX DOUGLAS SMITH (NO TRAY) BENSON II ADG DSN

DESIGNER LAYOUT DATE MASTER
ARCH DATE STRUC DATE -

JOB #: MASTER

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	34' 0"	14" TJI® 110	1	3	MFD
J2	28' 0"	14" TJI® 110	1	2	MFD
J3	20' 0"	14" TJI® 110	1	1	MFD
J4	20' 0"	14" TJI® 110	1	2	MFD
J5	18' 0"	14" TJI® 110	1	8	MFD
J6	16' 0"	14" TJI® 110	1	9	MFD
J7	5' 0"	14" TJI® 110	1	1	MFD
J8	30' 0"	14" TJI® 210	1	4	MFD
2B-1	15' 0"	1 3/4" x 14" 2.0E Microllam® LVL	2	2	MFD
RIM-1	16' 0"	1 1/8" x 14" TJ® Rim Board	1	9	MFD
Bk1	2' 0"	14" TJI® 110	1	1	MFD

Connector Summary				
PlotID Qty Manuf Product				
H1 17 MiTek IHFL1714				
H2	2	MiTek	TFL1714	

### **GENERAL NOTES:**

1.) TOP CHORD OF JOISTS ARE PAINTED RED AT NUMBERED END. PLACE PAINTED END AS NOTED ON PLAN.

NOTED ON PLAN.
2) FOLLOW SPECIAL SPACING AND LOCATION
DIMENSIONS FOR EXTRAS OR SHIFTED JOISTS
AS SHOWN ON PLAN.
3) ALL INTERIOR WALL PLATES MUST BE LEVEL
WITH OUTSIDE WALL TOP PLATES.
4) DO NOT STACK CONSTRUCTION LOADS ON

4.) DO NOT STACK CONSTRUCTION LOADS ON UN-BRACED JOISTS.
5.) PROVIDE SOLID SUPPORT BELOW ALL BEAM AND HEADER BEARING POINTS IN WALL AND JOIST SPACES CONTINUOUS DOWN TO THE FOUNDATION.
6.) LOCATE CRIPPLE STUDS IN JOIST SPACE

DIRECTLY BELOW HEADER JACKS AT ALL FIRST FLOOR EXTERIOR DOOR LOCATIONS.
7.) INSTALL NAILS IN ALL HOLES PROVIDED IN

JOIST HANGERS EXCEPT AT BOTTOM CHORD SEAT. PLACE A DAB OF GLUE IN THE HANGER SEAT BEFORE SETTING JOISTS.

SEAT BEFORE SETTING STRUCTURAL
ANALYSIS OF CONVENTIONAL HEADERS HAS
BEEN CONDUCTED IF NOT NOTED. THEY ARE
CONSIDERED TO BE ADEQUATE TO SUPPORT

### FRAMER NOTE

☐DENOTES DUCT HOLE RUNS

ALL DIMENSIONS TO CENTERLINE UNLESS

Avoid Plumbing Drops

### FRAMER NOTE

1. GLUE AND NAIL PLYWOOD SUBFLOOR TO BEAMS AND GIRDERS AT 6" O/C WHERE NO WALL IS ABOVE. 2. FILL HANGER SEAT WITH GLUE BEFORE SETTING JOIST IN

HANGER. FILL ROUND HOLES WITH NAILS.

### CRITICAL !!

**INSTALL 2X4 SQUASH BLOCKS** IN FLOOR TRUSS SPACE **BELOW ALL EXTERIOR DOOR** HEADER JACKS. CUT 1/16" TALLER THAN TRUSS.

### PLAN LEGEND

\*INDICATES BEAM ABOVE TOP PLATE (FLUSH WITH FLOOR SYSTEM) H-, 1H-, GDH-

\*BEAMS MAY PROTRUDE ABOVE OR BELOW DECKING OR TOP PLATE RESPECTIVELY, REFER TO DETAIL IF BEAM IS A DIFFERENT DEPTH THAN FLOOR SYSTEM

SINGLE PLY BEAM (ADD LINE FOR EACH ADDITIONAL PLY)

SHIFT JOIST TO MISS PLUMBING, ALIGN W/WALL OR SUPPORT FURNITURE FXTRA

DOUBLE TWO JOISTS SIDE BY SIDE (ONLY ASSEMBLED IF NOTED)

FIELD TRIM NON RED END TO KEEP HOLES ALIGNED CONTAR EL LADO DE SIN MARCA ROJA PARA HOYOS ALINEADOS

### **FIELD LOCATE**

**PLUMBING DROPS/CAN** LIGHTS, ETC... PRIOR **TO JOIST SECUREMENT TO** 

### AVOID INTERFERENCE. LAYOUT FOR 19.2" O/C

1=	19-3/16"	9=	172-13/16"
2=	38-3/8"	10=	192"
3=5	57-5/8"	11=	211-3/16"
4=	76-13/16"	12=	230-3/8"
5=	96"	13=	249-13/16"
6=	115-3/16"	14=	268-13/16"
7=	134-3/8"	15=	288"
8=	153-5/8"		

FIELD VERIFY DIMENSIONS TO

**JOISTS LOCATED UNDER WALLS!!** 2ND FLOOR LAYOUT

2ND FLOOR PLACEMENT PLAN SCALE: 1/8"=1'



UFP

**Smith Douglas Homes** 

Benson II 2nd Floor

DESIGNER PB2 LAYOUT DATE 6/26/2024 **ARCH DATE** 9/1/2022 STRUC DATE 7/14/2023

JOB #: 24061990F2