# BRADLEY

REEDY BRANCH LOT 63

PLAN ID 120121.0901



# 110 VILLAGE TRAIL SUITE 215 WOODSTOCK, GA. 30188

### **DRAWING INDEX COVER SHEET** A0.0 A1.1 FRONT ELEVATION SIDE & REAR ELEVATIONS A2.1 A3.1 **SLAB FOUNDATION** FIRST FLOOR PLAN & DETAILS A5.1 A6.1 **ROOF PLAN** A7.2 **ELECTRICAL PLAN** A8.1 TRIM LOCATION LAYOUT

AREA TABULATION		
FIRST FLOOR	1770	
TOTAL	1770	
GARAGE	396	
FRONT PORCH (COVERED)	20	
REAR PATIO W/EXT. FAMILY RM OPTION	136	

### **GOVERNMENTAL CODES & STANDARDS**

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	DATE BY REVISION		
11/12/2021	AW	Prototype walk revisions - see revision sheet	ALL
1/6/2022	AW	PCR Increased size of HVAC platform when 2nd flr selected and removed 1 switch in Obath to tie LED light to vanity light	A5.2, A7.3-A7.4
4/21/2022	AW	PCR added 4-way switch to Family Rm light and added outlet in Fam Rm next to cooktop wall cabs	A7.3-A7.4
9/1/2022	AW	Changed field framing and misc. items - see revision sheet	A3.1.1, A5.1.1, A5.2. A5.3
6/7/2023	AW	Relocated PDS and HVAC platform to garage for ranch versions (to match new truss layouts)	A5.1-A8.1
9/21/2023	BB	Removed tub and shower sizes on all affected pages	A3.1, A5.1, A7.3

DI ANI DELITORIO

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

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

## REEDY BRANCH LOT 63



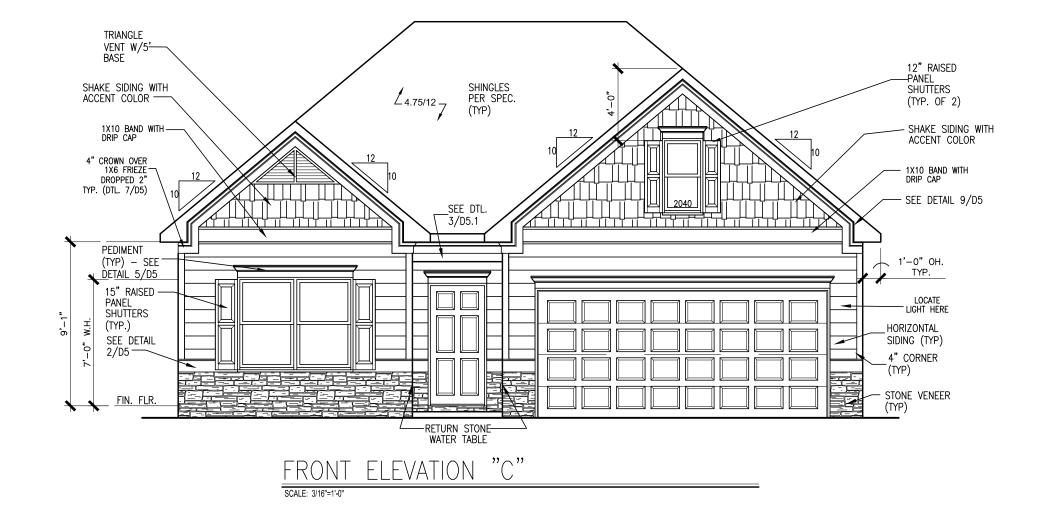
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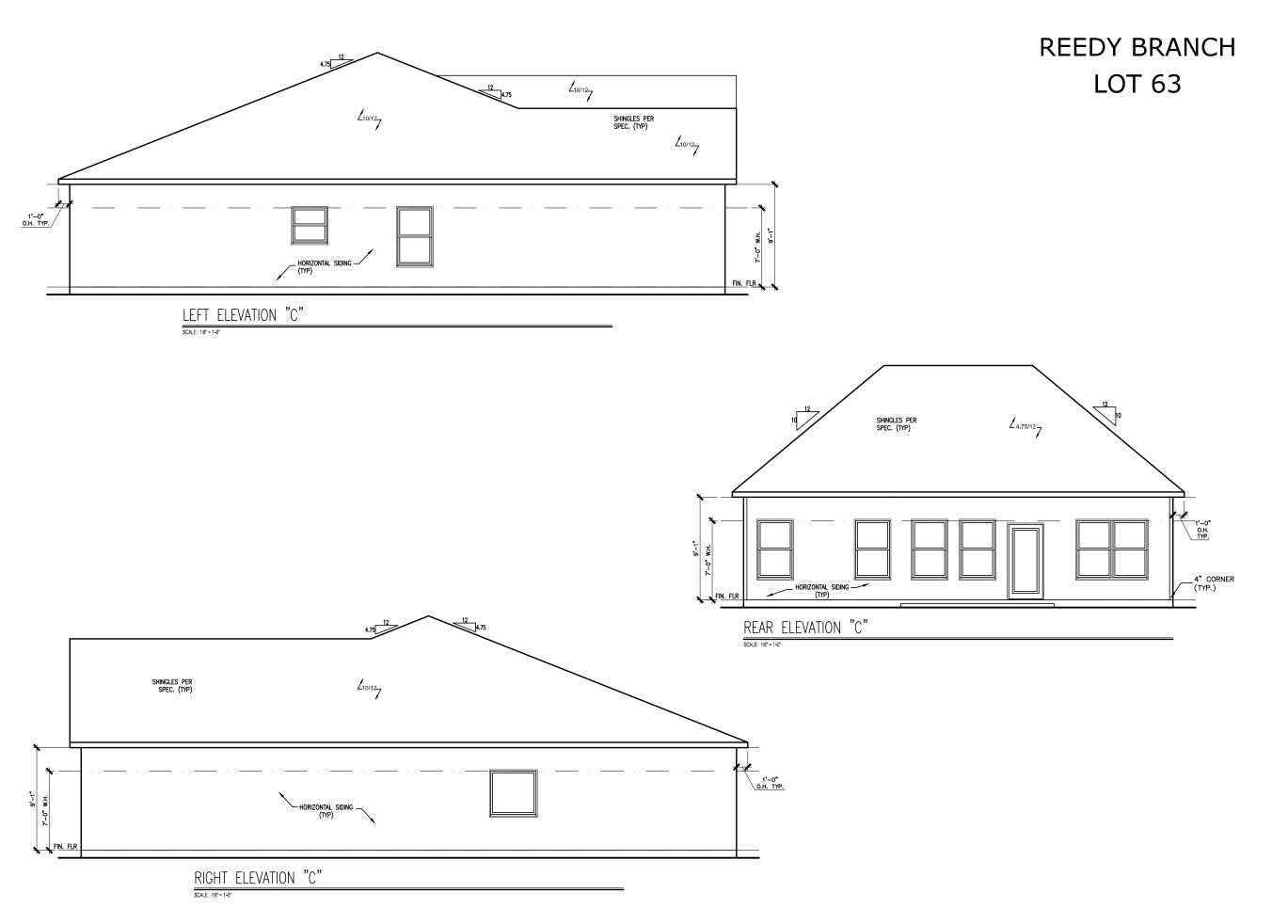


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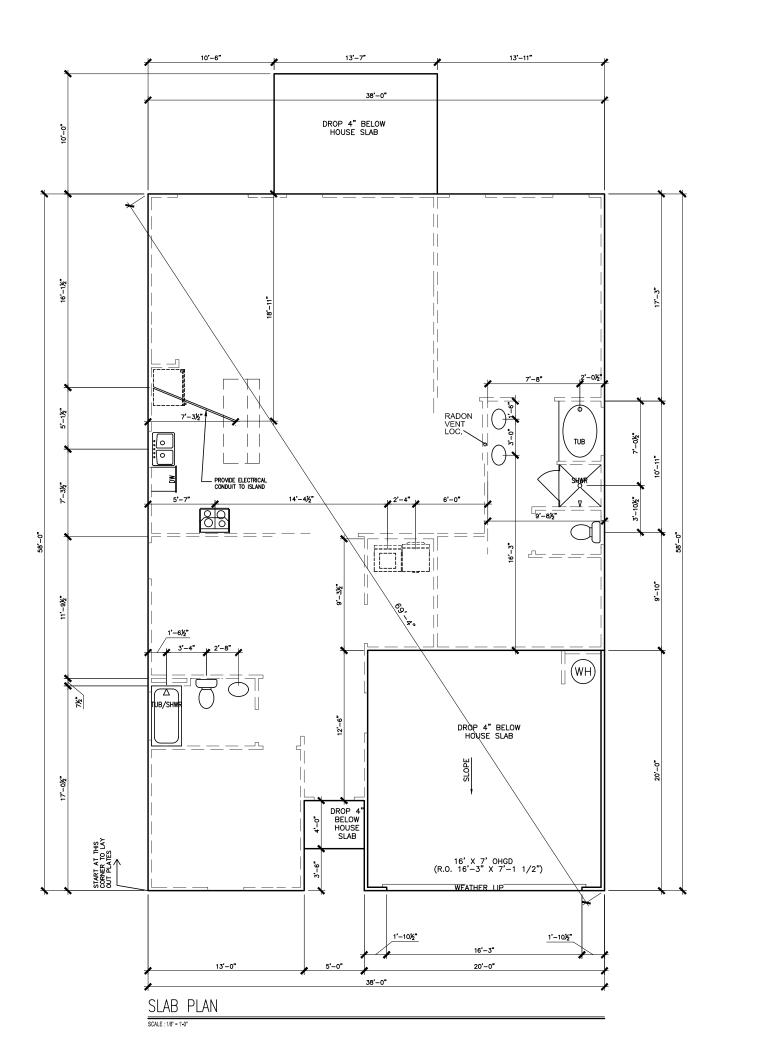




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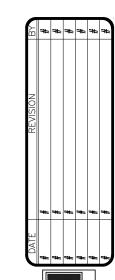




# REEDY BRANCH LOT 63

\*RADON VENT PROVIDED PER LOCAL CODE

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



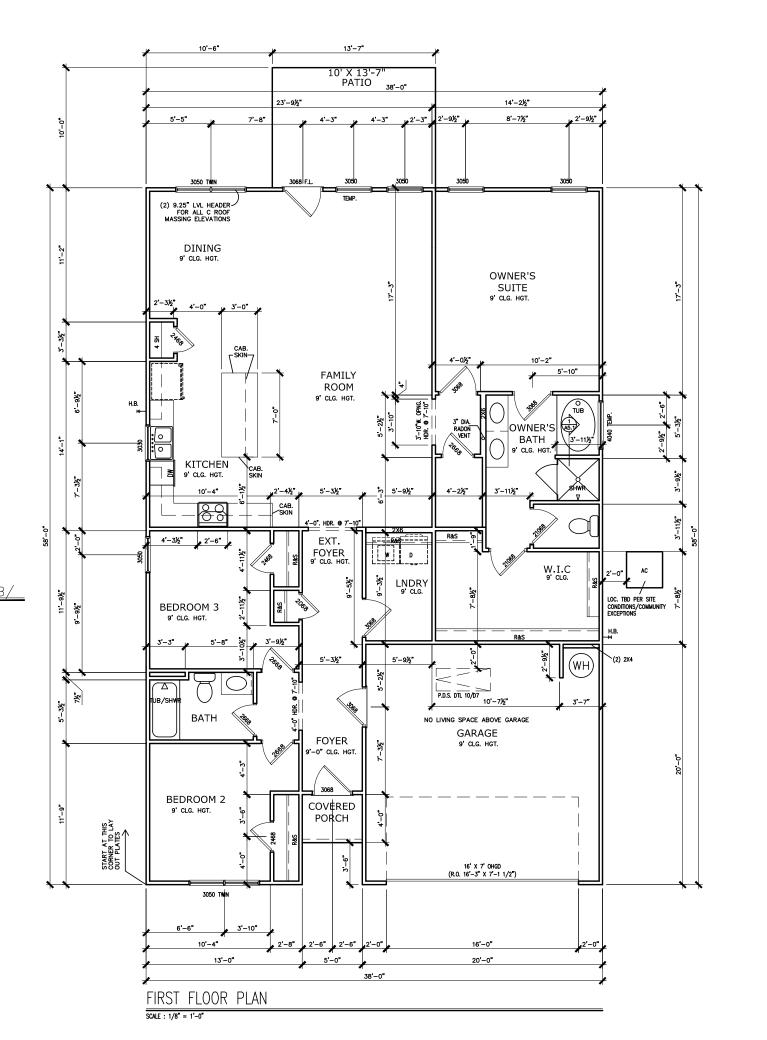




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4040 WINDOW

TILE ON

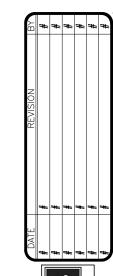
SHOWER GLASS

SHOWER -

CERAMIC TILE

SCRATCH COAT

## REEDY BRANCH LOT 63



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FLOOR PLAN FIRST FLOOR BRADLEY

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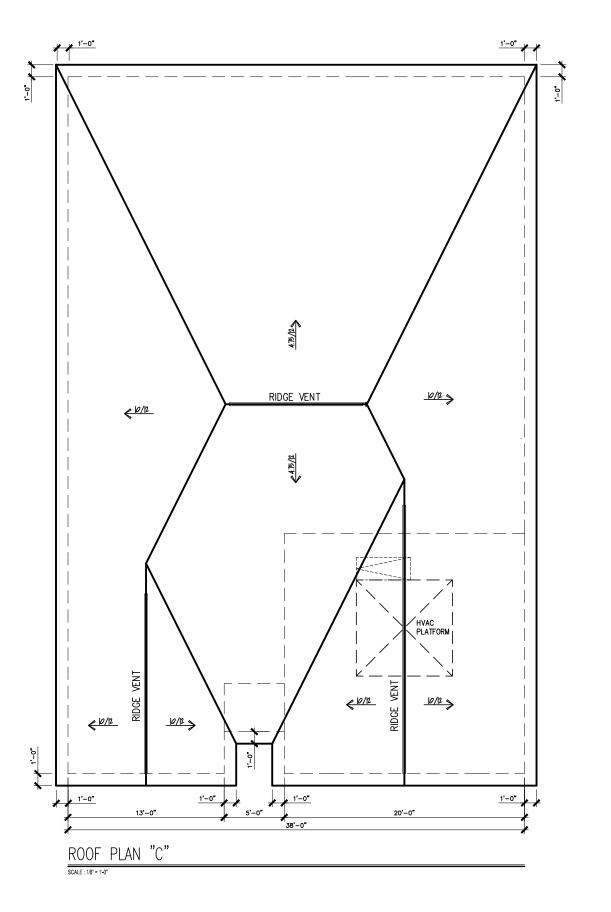


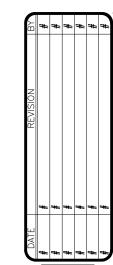
REFER TO MANUFACTURER'S SPECS. FOR DRAIN LOCATIONS ON DETAIL SHEETS D12,D12.1,D12.2 & D12.3

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# REEDY BRANCH LOT 63



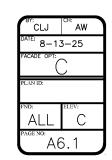




ROOF PLAN
ROOF PLAN
BRADLEY

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# 10' X 13'-7" PATIO DINING OWNER'S SUITE **FAMILY** ROOM , KITCHEN, OWNER'S ватн 0 DO NOT INSTALL 220V OUTLET UNLESS ELEC. RANGE SELECTED w.i.c EXT. BEDROOM 3 FOYER LNDRY ELECTRICAL PROVIDED AS NEEDED WH BATH GARAGE <u>COVERED</u> BEDROOM 2 FIRST FLOOR ELECTRICAL PLAN

# REEDY BRANCH LOT 63

ELECTRICAL LEGEND			
\$	SWITCH	TV.	TV
\$3	3 WAY SWITCH	ф	120V RECEPTACLE
\$4	4 WAY SWITCH	•	120V SWITCHED RECEPTACLE
Ø	CEILING FIXTURE	Φ	220V RECEPTACLE
-\$\(\dag{k}\)	KEYLESS	P <sub>GFCI</sub>	GFCI OUTLET
闷	WALL MOUNT FIXTURE	PAFCI	ARCH FAULT CIRCUIT INTERRUPTER
0	CEILING FIXTURE	† <sub>GL</sub>	GAS LINE
•	FLEX CONDUIT	† <sub>wL</sub>	WATER LINE
СН	CHIMES	¥	HOSE BIBB
PH	TELEPHONE	8	FLOOD LIGHT
SD/Cd	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE
SO	SECURITY OUTLET		OFILINO FANI
	GARAGE DOOR OPENER		CEILING FAN
■	EXHAUST FAN		ELECTRICAL WIRING
	FAN/LIGHT		CEILING FIXTURE
ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES			
APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)			
BREAKFAST/DINING ROOM 63" ABOVE FINISHED FLOOR			
KITCH	KITCHEN PENDANT LIGHTS		VE COUNTER TOP
TWO	TWO STORY FOYER FIXTURE		VE FINISHED FLOOR
CEILI	CEILING FAN		VE FINISHED FLOOR

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



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ELECTRICAL PLAN
ELECTRICAL PLAN
FIRST STORY HIMS
FIRST ST

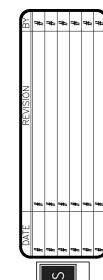
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# 10' X 13'-7 PATIO DINING OWNER'S SUITE FAMILY ROOM Ĺowĭner's BATH KITCHEN EXT. FOYER W.I.C LNDRY BEDROOM 3 WH BATH GARAGE FOYER BEDROOM 2 COVERED PORCH ---- FOYER TRIM - CHAIR/SHADOW TRIM LAYOUT FIRST FLOOR PLAN

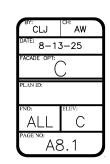
**REEDY BRANCH LOT 63** 



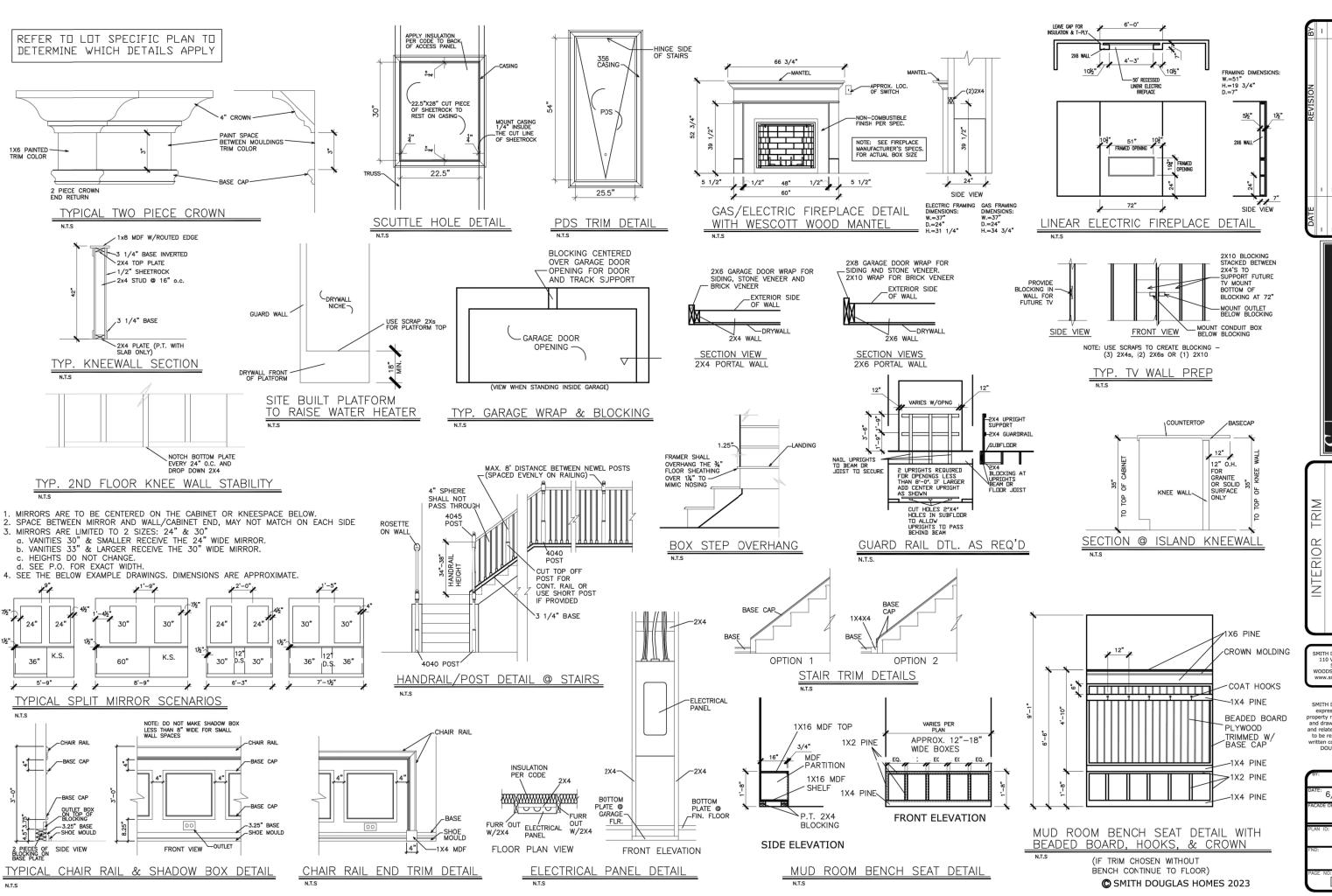


LAYOUT FLOOR PLAN BRADLEY TRIM

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



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INTERIOR TRIM
DETAILS

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DATE: 6/13/23
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PLAN ID:

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PAGE NO: D 1.1

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

DESCRIPTION OF BLDG. ELEMENT	3"x0.131" NAIL5	3"x0.120" NAIL5
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	(15) NAILS IN LAPPED AREA
	(24" MIN.)	(24" MIN.)
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(3) NAILS	(3) NAILS
RAFTER/TRUSS TO TOP PLATE	(4) TOENAILS +	(4) TOENAILS +
	(I) SIMPSON H2.5T	(I) 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"	2xI0 BLK EVERY 3RD BAY	2xI0 BLK EVERY 3RD BAY
	FASTENED TO DBL. TOP PLATE	FASTENED TO DBL. TOP PLATE
	w/ TOENAILS @ 6" O.C.	w/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. 12" TO 16"	2xI2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE	2xI2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE
	W/ TOENAILS @ 6" O.C.	W/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. UP TO 24"	LAP WALL SHTG, W/ DBL, TOP PL.	
R.I. W HEEL HI. UP 10 24"	\$ INSTALL ON TRUSS VERT	LAP WALL SHTG. W/ DBL. TOP PL. § INSTALL ON TRUSS VERT
	FASTEN W/ NAILS @ 6" O.C.	FASTEN W/ NAILS @ 6" O.C.*
R.T. w/ HEEL HT. 24" TO 48"	LAP WALL SHTG, W/ DBL, TOP PL.	LAP WALL SHTG, W DBL, TOP PL.
R.I. W HEEL HI. 24 10 46	\$ INSTALL ON TRUSS VERT	& INSTALL ON TRUSS VERT
	FASTEN W/ NAILS @ 6" O.C.	FASTEN W/ NAILS @ 6" O.C.
	PROVIDE 2x BLK @ EA. BAY AT	PROVIDE 2x BLK @ EA. BAY AT
	TOP OF HEEL	TOP OF HEEL*
WALL TO FOUNDATION	WALL SHTG, LAP w/ SILL PL. &	
	FASTENED PER SHEAR WALL	
	FASTENING SPEC.	
* 21/5"x0.II3 IS AN ACCEPTABLE AL	TERNATIVE TO A 3"x0,120", SAME SP	ACING OR NUMBER OF NAILS.
(ONLY ACCEPTABLE WHERE * ARE		

### ADDITIONAL NOTES FOR TRUSS \$ I-JOIST MANUFACTURER

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 INSTALLATION.

TRUSSES/JOISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT
PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUSH BEAMS DO NOT EXCEED THE FOLLOWING:

- 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"	
6'-0"	3 FT. MAX	L3"x3"x¼"	
	I2 FT. MAX	L4"x3"x/4"	
	20 FT. MAX	L5"x3½"x5%"	
8'-0"	3 FT. MAX	L4"x4"x¼" *	
	I2 FT. MAX	L5"x3½"x5%"	
	l6 FT. MAX	L6"x3½"x¾"	
9'-6"	I2 FT. MAX	L6"x31/2"x5/6"	

. LINTELS: HALL SUPPORT 2 % - 3 ½ ' VENEER W 40 psf MAXIMM WEIGHT 6' SHALL HAVE 4' NIN BEARING 6' SHALL HAVE 5' MIN, BEARING 6' SHALL NOT BE FASTENED BACK TO HEADER.

- IS SHALL BY FASTERED BACK TO HEADER. IN WALL 049'06. W JS DIA x 3 JS 105 SHALL BY FASTERED BACK TO WOOD HEADER IN WALL 049'06. W JS DIA x 3 JS LONG LOAS SCREWE IN 2" LONG VERTICALLY SLOTTED HOLES. WHAY VENEER IN A PPUILES TO ANY FORTION OF PERICK OVER THE OPENING. ALL LINTED SHALL BE LONG LEG VERTICAL. WHAT SHE SHAPEN SHEER OF WEER C 3" IN DIE EXTERNAL PLANT OF THE HORIZONTAL LEG MAY BE UT IN THE FIELD TO BE 3 JS." WIDE OVER THE BEARING LENGTH ONLY. THIS IS TO ALLION FOR MORTHER LONG THIS HIGH. WE SHEET SHAPE THE SHAPE SHAPE
- R QUEEN VENEER USE L4x3x/4".

### GENERAL STRUCTURAL NOTES

### FOUNDATION

DESIGN IS BASED ON 2018 NCSBC-RESIDENTIAL CODE

FOOTING DESIGN - 2,000 PSF NET ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.

- FASTEN 2x4/6 SILL PLATES TO CONC FND WITH A MINIMUM OF 2
- ANCHORS PER PLATE, I2" MAX. FROM PLATE ENDS UTILIZING I/2" DIA. ANCHOR BOLTS @ 6'-0" O.C.7" MIN. EMBEDMENT FA4 ANCHOR STRAPS @ 6'-0" O.C
- FASTEN 2x10 SILL PLATES TO PRECAST BSMT WALLS WITH A MINIMUM OF 2 ANCHORS PER PLATE, I2" 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 ACL 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 eq 000,000 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 BACKFILL. 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 INGIDE 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" OC (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 SLABS
- YPICAL REINFORCEMENT DETAILS: PROVIDE 3" MIN. CLEAR 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 VERIFY

### 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.)

GRADE

F.J. NDICATES 14" DEEP FLOOR 1-JOISTS (24" O.C. MA) SPACING), JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER D.J. NDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX.)

- 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.)
- JL METAL HANGER
- 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: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.

HE DESIGN WAS COMPLETED PER 2015 & 2018 IBC ECTION 1609) & ASCE 7, AS PERMITTED BY R30111 OF THE 2018 NCSBC:RC & 2018 IRC. IF THE PARAMETERS OF SECTION R602.12 COMPLY CCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIET 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 UPLIFT LOAD PATH PER SECTIONS R602.3.5¢ R802.II.

### EXT. WALL SHEATHING SPECIFICATION

- 1/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 3 "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 × 0.113 NAILS @ 3" O.C. AND 12" O.C. IN THE PÄNEL FIELD NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEI TO STUD) AND INSTALLED FULL HEIGHT OF SHEAR MALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN. T 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

### 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 LOADS")
- 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
- $2\frac{1}{2}$ "  $\times$  0.131" NAILS @ 6"o.c. @ PANEL EDGES & @ 12"o.c. FIELD.
- 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 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS w/ 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES € @ 12" O.C. FIELD.
- W/ 2 3 × 0.120" NAILS @ 4"o.c. @ PANEL EDGES & @ 8" O.C. FIELD. - w/ 2 3 × 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 RT7A CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) RTTA CLIPS AT 2-PLY GIRDER TRUSSES, (3) RTTA 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 "GUIDE 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"  $\times$  0.120" NAILS @ 16" O.C. (UP TO T' SPAN).

### MEANS & METHODS NOTES

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 TABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF

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

### GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NGSBC-RESIDENTIAL CODE
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.
- DESIGN LOADS ROOF

LIVE = 20 PSF DEAD = 7 PSF T.C., 10 PSF B.C. LOAD DURATION FACTOR = 1.25

FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (1-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 R602.3(1)) 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
- 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).
- ENGINEERED 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.8×10^6 psi
- FOR 2 & 3 PLY BEAMS OF EQUAL 13/4" MAX, WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"X0.120" NAILS @ 8" O/C OR 2 ROWS USP WS35 SCREWS (OR 31/3" 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 3 ½" OR 5 ¼ BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2X6 & 2X6
- FOR 4 PLY BEAMS OF EQUAL 13/4" MAX. WIDTH, FASTEN PLIES TOGETHER WITH 3 ROMS OF USP WS6 SCREWS (OR 6 3/4" TRUSSLOK 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.

### HOLD-DOWN SCHEDULE SYMBOL SPECIFICATION

HD-I	USP HTT45 HOLD-DOWN W/ STBI6 ANCHOR BOLT *
HD-2	USP STADI4 HOLD-DOWN STRAP
HD-3	USP MSTC40 HOLD-DOWN STRAP

### ALTERNATIVE TO STBIG ANCHOR BOLT SPECIFICATION

ANCHOR HOLD-DOWN UTILIZING THREADED ROD (REFER TO USP SPECIFICATION FOR ANCHOR DIAMETER), EPOXY-SET INTO CONCRETE FOUNDATION W USP CIA-GEL 7000 EPOXY SYSTEM PER MANUF. RECOMMENDATIONS.

CONC. FOUND. - PROVIDE 9" MIN. EMBEDMENT INTO CONCRETE. DO NOT LOCATE EPOXY-SET ANCHORS WITHIN I 34" OF FACE OF CONCRETE FOUNDATION.

CMU FOUND. - PROVIDE I2" MIN. EMBEDMENT INTO SOLID GROUTED CELLS. DO NOT LOCATE EPOXY-SET ANCHORS WITHIN 3" OF EDGE OF CMU FOUNDATION.

> Reedy Branch OT 63

MULHERN+KULP
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Mulhern+Kulp project numbe 256-2101

SMK MJissue date: 02-21-2022

REVISIONS

KΜ\ SMM

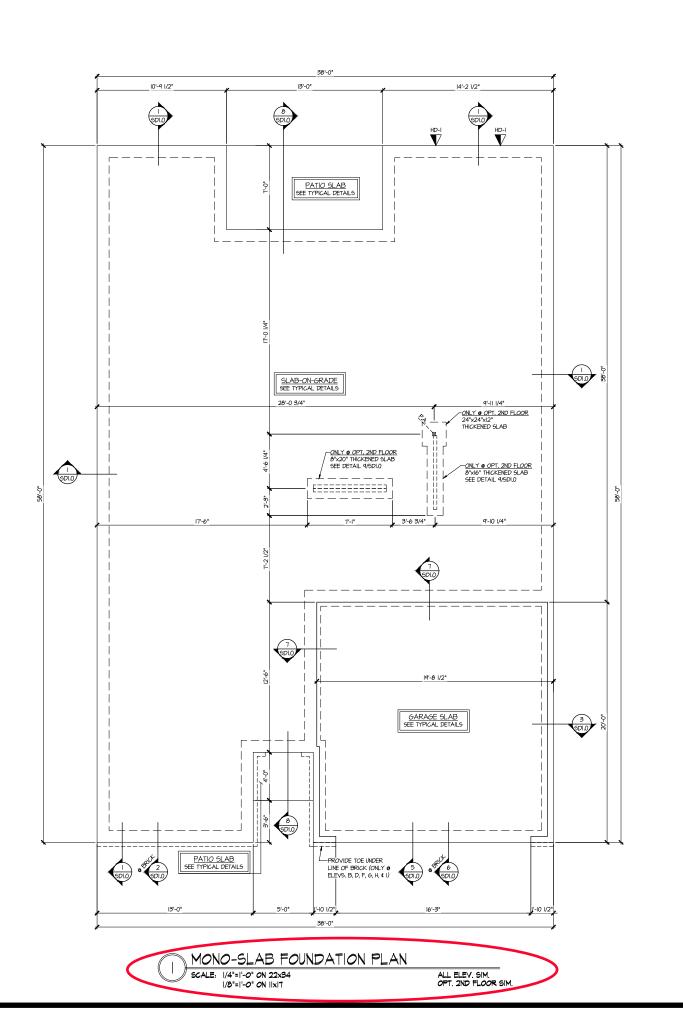
> $\overline{\mathbb{Q}}$ SMITH DOUC HOMES

STRUCTURAL NOTES

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Mulhern+Kulp project number:

256-2101

MJF issue date: 02-21-2022

REVISIONS:

date:	initial:
03/09/2022 MIRRORED PLANS ADDED	KMV
08/17/2022 UPDATE PER ARCH COMMENTS	SMM

SMITH DOUGLAS HOMES

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

Reedy Branch

OT 63

### HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION	
HD-I	USP HTT45 HOLD-DOWN W/ STBI6 ANCHOR BOLT *	
HD-2	USP STADI4 HOLD-DOWN STRAP	
HD-3	USP MSTC40 HOLD-DOWN STRAP	

### ALTERNATIVE TO STBI6 ANCHOR BOLT SPECIFICATION:

\* ANCHOR HOLD-DOWN UTILIZING THREADED ROOT (REFER TO USP SPECIFICATION FOR ANCHOR DIAMETER). EPOXY-SET INTO CONCRETE FOUNDATION W USP CIA-GEL TOOO EPOXY SYSTEM PER MANJE. RECOMMENDATIONS.

CONC. FOUND. - PROVIDE 4" MIN. EMBEDMENT INTO CONCRETE.

DO NOT LOCATE EPOXY-SET ANCHORS WITHIN 1 34" OF FACE OF CONCRETE FOUNDATION.

CM FOUND. - PROVIDE 12" MIN. EMBEDMENT INTO SOLID GROUTED CELLS. DO NOT LOCATE EPOXY-SET ANCHORS WITHIN 3" OF EDGE OF CMU FOUNDATION.

F.J. NDICATES 14" DEEP FLOOR 1-JOISTS (24" O.C. MAX SPACING), JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER

INDICATES LOCATIONS OF POTENTIAL TILE FLOOR.

JOIST MANUFACTURER SHALL DESIGN FLOOR

SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS.

• --- BEAM/HEADER

• JL METAL HANGER

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

### LEGEND

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

D.J. NDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX.)

INTERIOR BEARING WALL

• CTTT BEARING WALL ABOVE (B.W.A.)

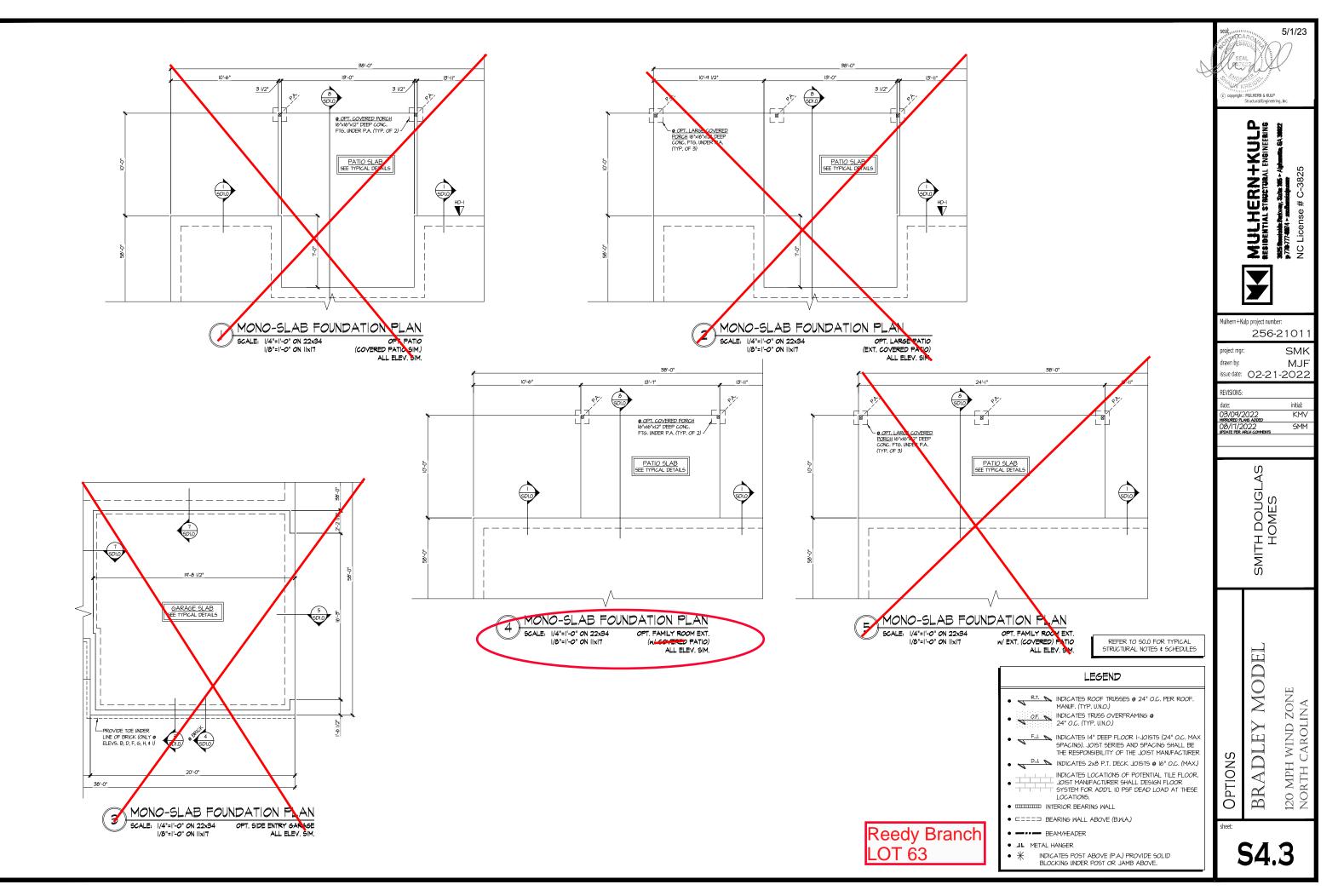
BRADLEY

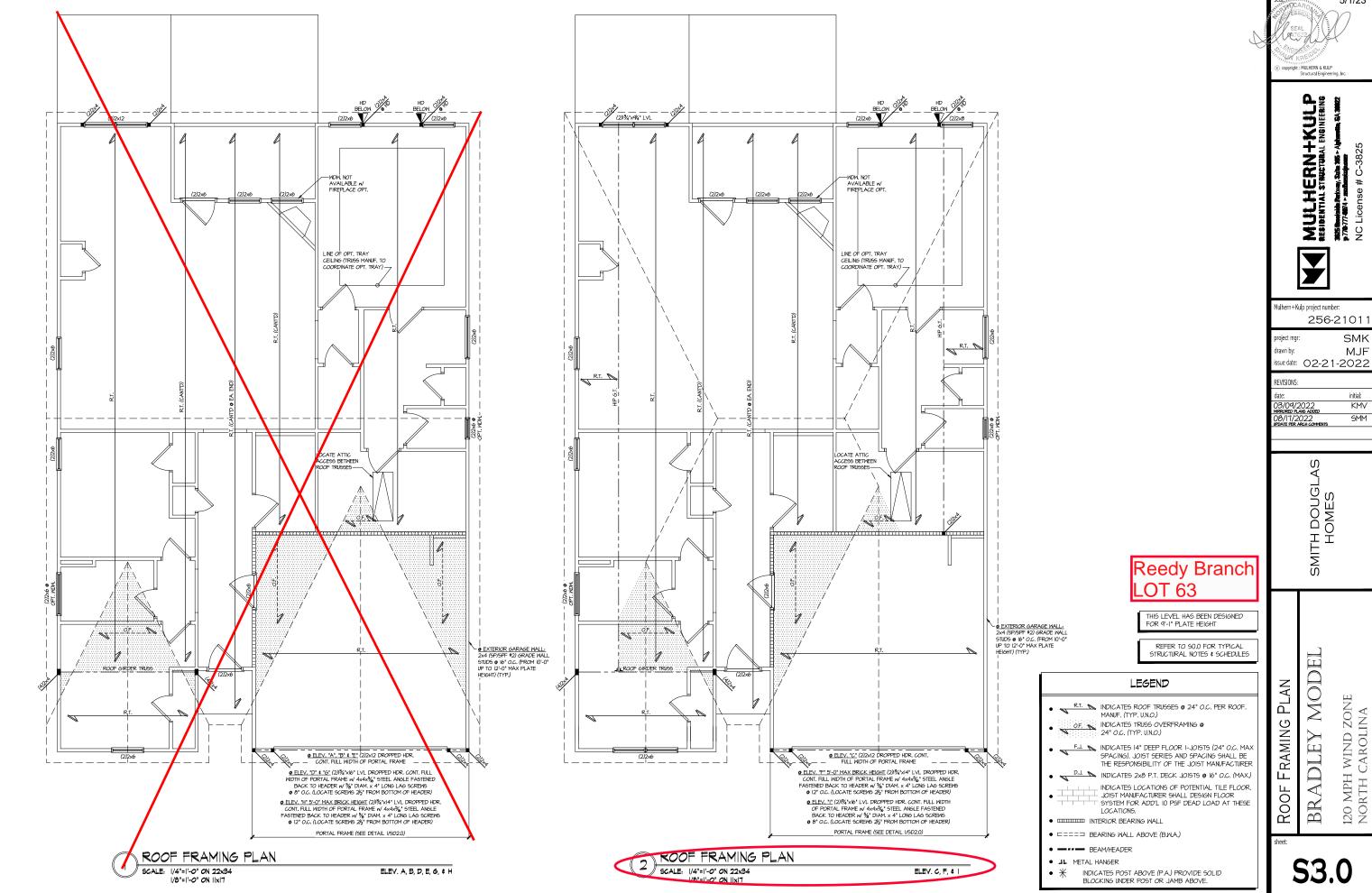
MODEL

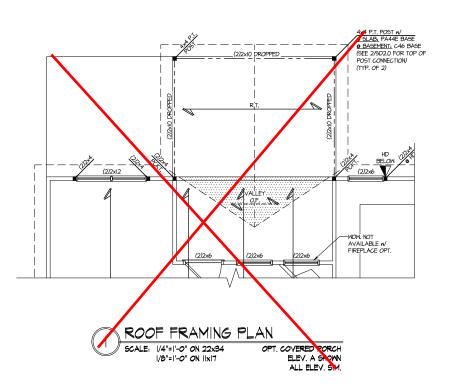
120 MPH WIND ZONE NORTH CAROLINA

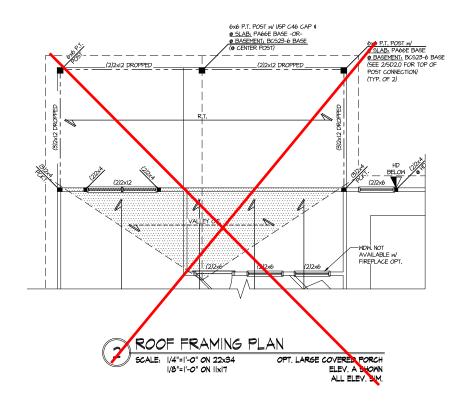
FOUNDATION

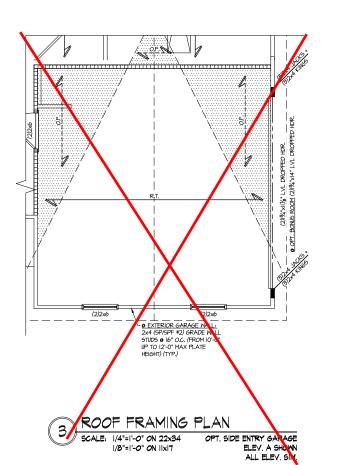
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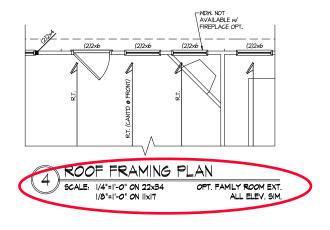












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RESIDENTIAL STRUCTURAL ENGINEERING

PERMICHERANG, Sept 26 - April 50 2002

PORTING 1 - April 50 2002

NC License # C-3825



Mulhern+Kulp project number:

256-2101

SMK MJF issue date: 02-21-2022

REVISIONS:

initial: KMV SMM

SMITH DOUGLAS HOMES

MODEL

BRADLEY OPTIONS

120 MPH WIND ZONE NORTH CAROLINA

**S4.2** 

### Reedy Branch OT 63

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

### LEGEND

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

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

F.J. NDICATES 14" DEEP FLOOR 1-JOISTS (24" O.C. MAX SPACING), JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER • DJ. INDICATES 2x8 P.T. DECK JOISTS @ 16" O.C. (MAX.)

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

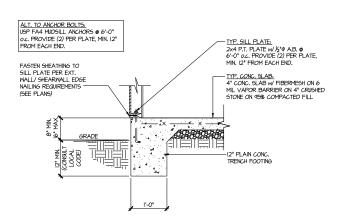
• IIIIIII INTERIOR BEARING WALL

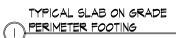
• ==== BEARING WALL ABOVE (B.W.A.)

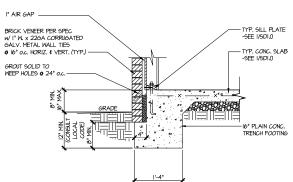
• --- BEAM/HEADER

• JL METAL HANGER

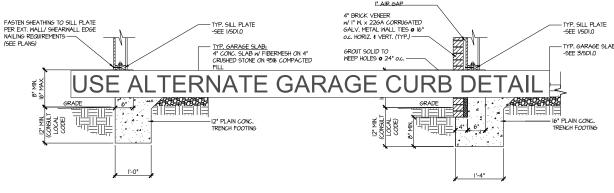
• \* INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.





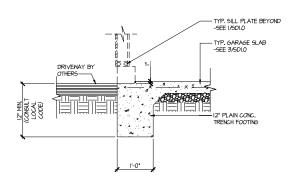


TYPICAL SLAB ON GRADE 2 PERIMETER FOOTING W/ BRICK VENEER

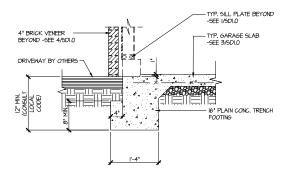


TYPICAL SLAB ON GRADE GARAGE 3 PERIMETER FOOTING

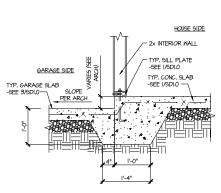




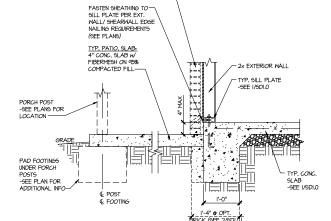
TYPICAL SLAB ON GRADE GARAGE (5) ENTRY @ PERIMETER FOOTING



TYPICAL SLAB ON GRADE GARAGE (6) ENTRY @ PERIMETER FOOTING

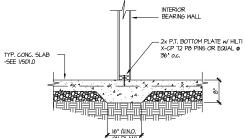


TYPICAL MONOLITHIC INTERIOR GARAGE FOOTING

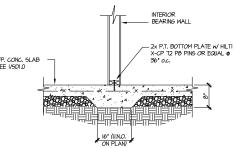


OPT. BRICK (SEE ARCH FOR LOCATIONS)

TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO



TYPICAL THICKENED SLAB @ 9 INTERIOR BEARING WALL



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OT 63

5/1/23

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265 Strackaide Parkvey, Suite 265 • Agina 2-78-77-4804 • menhanicapasan NC License # C-3825

Mulhern+Kulp project number:

256-2101 SMK

drawn by: MJF issue date: 02-21-2022

REVISIONS:

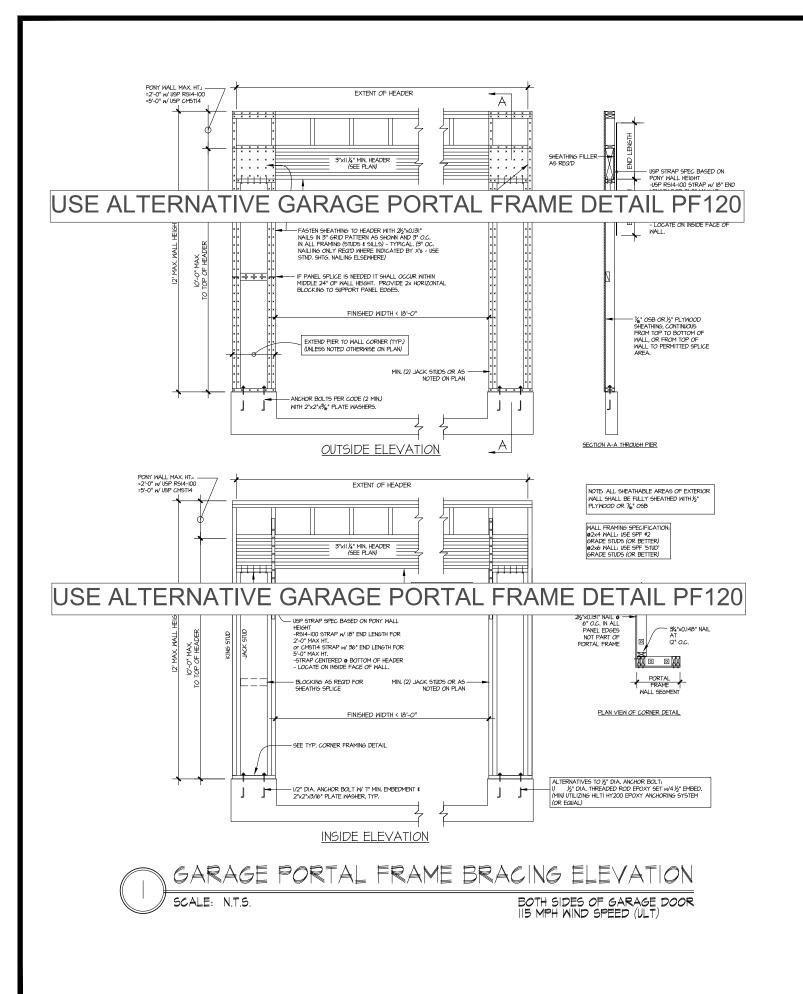
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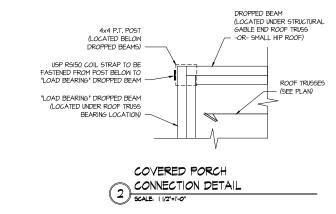
SMITH DOUGLAS HOMES

MODE FOUNDATION DETAILS ADLEY

ZONE WIND CAROLI 120 MPH V BR.

**SD1.0** 





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F.70-777-874 - EMBREDGE

NC License # C-3825

Mulhern+Kulp project number: 256-2101

MJF issue date: 02-21-2022

REVISIONS:

KMV SMM

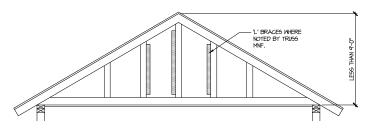
SMITH DOUGLAS HOMES

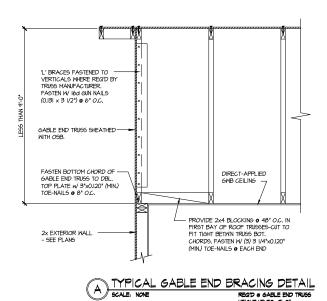
MODE

FRAMING DETAILS ADLEY BR. 120 MPH WIND ZONE NORTH CAROLINA

Reedy Branch OT 63

**SD2.0** 

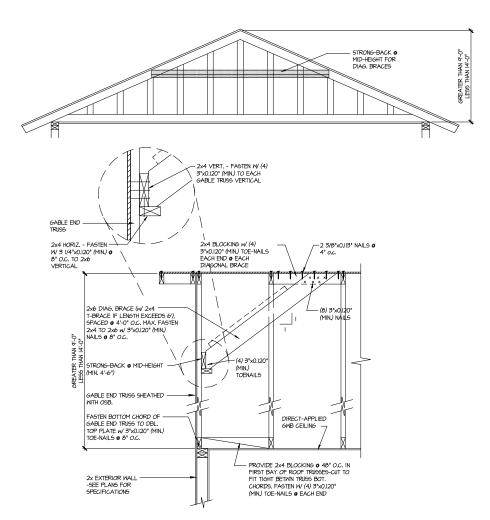




BRACE GABLE END TRUSGES PER ABOVE DETAIL WHEN GABLE HEIGHT IS LEGS THAN 9'-O'. L' BRACES REQUIRED WHERE NOTED BY TRUSS MANUFACTURER.

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.



B TYPICAL GABLE END BRACING DETAIL SCALE: NONE REGID & GABLE END TRUGG

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

5/1/23

MUCHERNAL STRUCTURAL ENGINERING
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Mulhern+Kulp project number: 256-2101

SMK MJF issue date: 02-21-2022

REVISIONS:

initial: KMV SMM

SMITH DOUGLAS HOMES

MODEL

120 MPH WIND ZONE NORTH CAROLINA

FRAMING DETAILS BRADLEY

Reedy Branch

OT 63

**SD2.1** 



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

July 28, 2023

lody Hunt

Director of Product Development

# **SMITH DOUGLAS HOMES**

110 Village Trail, Suite 215 Woodstock, GA 30188

# **ALTERNATE GARAGE PORTAL FRAME DETAIL**

Smith Douglas Homes

**Reference** "Alternate Garage Portal Frame Detail" on sheet PF-120 & PF-130, prepared by Mulhern & Kulp dated 07/28/2023 - attached

Jody:

Pursuant to your request, we have prepared this letter to address the "*Alternate Garage Portal Frame Detail*", prepared by Mulhern & Kulp for Smith Douglas Homes.

Detail" on sheet "PF-130" is an acceptable alternative portal frame design for anywhere in North Carolina with a wind speed less than The "Atternate Garage Portal Frame Detail" on sheet "PF-120" is an acceptable alternative portal frame design for anywhere in North The "Alternate Garage Portal Frame or equal to 130mph ultimate wind speed per ASCE 7-16. These details only apply to structural plans that have been designed by Mulhern& Kulp. It is the responsibility of "SDH" to provide the correct "Alternate Garage Portal Frame Detail", to the building Carolina with a wind speed less than or equal to 120mph ultimate wind speed per ASCE 7-16. department that matches the jurisdiction's wind speed requirements.

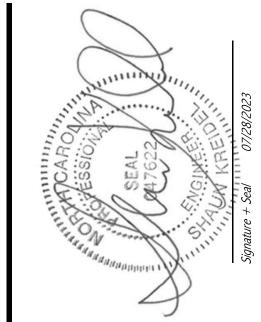
Please feel free to call if you have any questions.

Respectfully,

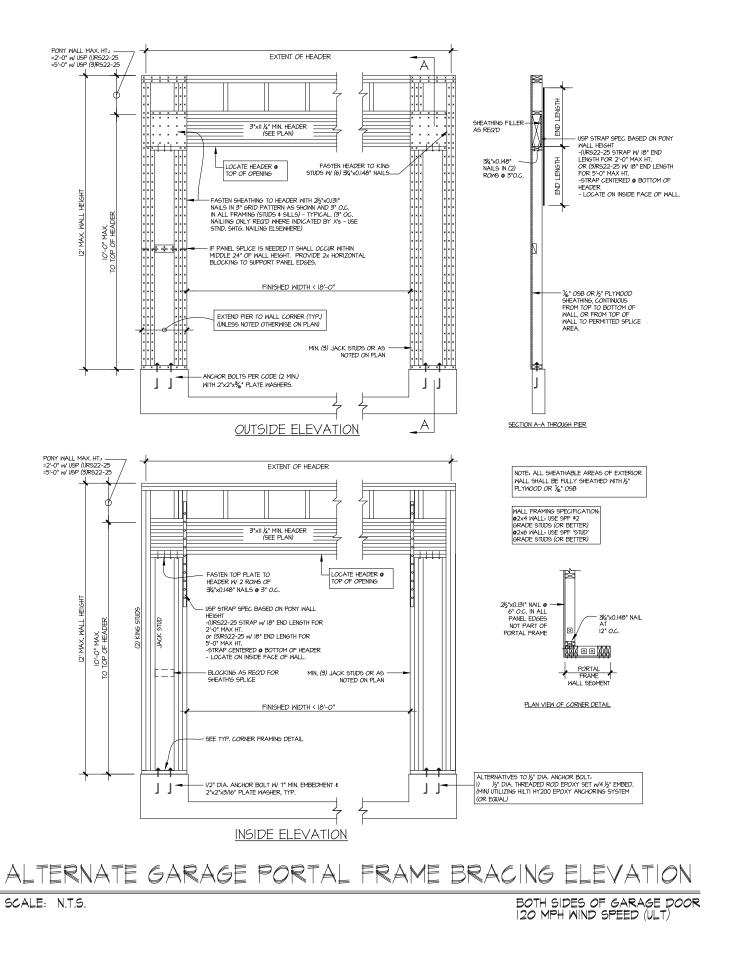
# **MULHERN & KULP STRUCTURAL ENGINEERING, INC.**

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|2023-07-28 - Alternate Portal Frame Letter|Alternate Garage Portal Frame Detail -Letter - RLH.docx

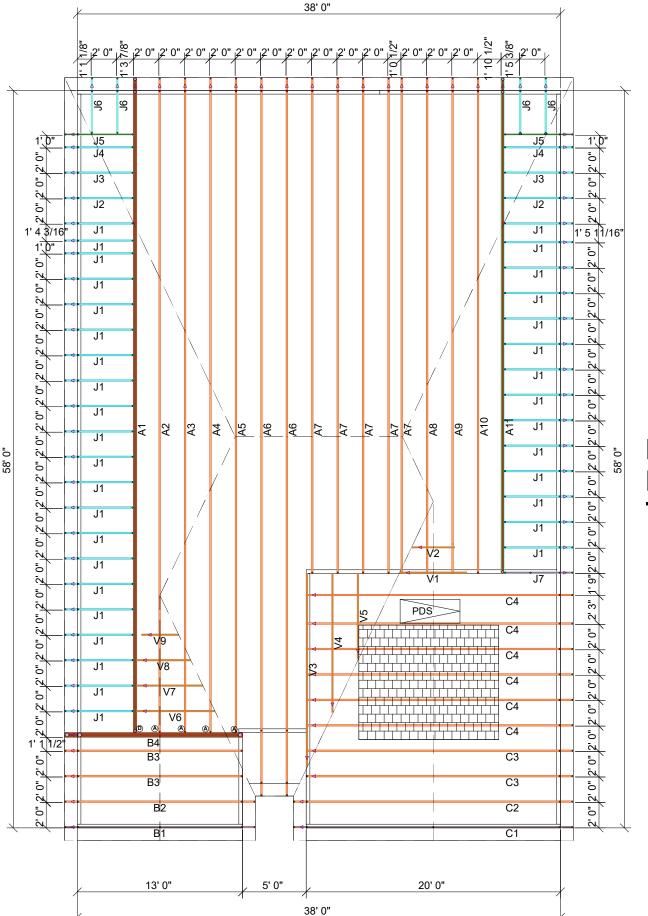


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PASSESSERIT: TRANSPORTER STRUCTURAL ENGINEERING Mulhern+Kulp project number: 256-23000 SMK RAP issue date: 07.28.2023 REVISIONS: initial: SMITH DOUGLAS HOMES FRAME PORTAL FRAME ALTERNATE PORTAL PF-120

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Reedy Branch LOT 63

### 72522022 63 REEDY BRANCH



(D)   THD28-2	FACE MOUNT HANGER
BRADLEY	CFI EXT

FACE MOUNT HANGER

A HUS26

HVAC

# **FAMILY RM NO TRAY**

LINES: 79 LINES: VALLEY

BUILT

SITE A UFP INDUSTRIES (

UFP

90 87.

59.11 LINE RIDGE CFI EXT | TRAY BRADLEY  $\mathrm{ft}^2$ 2855.11 AREA:

DESIGNER JNN LAYOUT DATE 1/22/24

JOB #: MASTER

ARCH DATE

ROOF