

1820 Brooklyn- RH **ELEVATION 'A'**

Sheet No.	Sheet Description	Sheet No.	Sheet Description
0.0	Cover Sheet	4.0	Building Sections
0.1	General Notes Sheet	4.1	Interior Details
1.0	Mono Slab Foundation	5.0	Unfin Walkout Basement Electrical
1.0.1	Mono Slab Options	5.0.1	Unfin In-Ground Basement Electrical
1.1	Stem Wall Foundation	5.0.2	Finished Walkout Basement Electrical
1.1.1	Stem Wall Options	5.0.3	Finished In-Ground Basement Electric
1.2	Crawl Space Foundation	5.1	First Floor Electrical
1.2.1	Crawl Space Options	5.1.1	First Floor Options Electrical
1.3	In-Ground Basement Foundation	5.2	Second Floor Electrical
1.3.1	In-Ground Basement Options	5.2.1	Second Floor Options Electrical
1.4	Walkout Basement Foundation	5.3	Third Floor Electrical
1.4.1	Walkout Basement Options	5.3.1	Third Floor Options Electrical
2.0	Unfinished Walkout Basement	6.0	Finished Walkout Basement Plumbing
2.0.1	Unfinished In-Ground Basement	6.0.1	Finished In-Ground Basement Plumbir
2.02	Finished Walkout Basement	6.1	First Floor Plumbing
2.03	Finished In-Ground Basement	6.1.1	First Floor Options Plumbing
2.1	First Floor Plan	6.2	Second Floor Plumbing
2.1.1	First Floor Options		
2.1.2	Fireplace Options		

DESIGN CRITERIA:

THIS PLAN HAS BEEN DESIGNED IN CONFORMANCE WITH THE • 2012 NORTH CAROLINA RESIDENTIAL CODE

2000 PSF

20 PSF

50 PSF

20 PSF

MODERATE 12"

В 100 MPH

2000 PSF CI,ML,MH,CH 50 PSF 40 PSF 30 PSF

- ASSUMED SOIL BEARING CAPACITY: •

- ASSUMED SOIL BEARING CAPACITY.
 ASSUMED SOIL TYPE:
 LIVING SPACE TOTAL FLR LOAD:
 SLEEPING SPACE TOTAL FLR LOAD:
 ROOF LOAD W/CEILING:
 ROOF LOAD W/O CEILING:
- DECK LOAD
- ROOF SNOW LOAD: WIND EXPOSURE
- WIND SPEED

NOTICE TO CONTRACTOR struction must comply with current NC

and is subject to field insp APPROVED

- WIND SPEED
 WEATHERING:
 FROST DEPTH
 SUBJECT TO TERMITE DAMAGE
 MODERATE-SEVERE

	REVISION LOG			
Rev	Description	Drawn By	Date	Engineering Required
1		SDI		YES
2				
3				
4				
5				
6				
7				
8				

SQ
FIRST FL
SECOND
REAR COV
FRONT F
2-CAR G
SUBTC
TOTAL UND
OPT. REA

UARE	FOOT	AGE		
	ELEVATION 'A'			
	UNHEATED	HEATED		
OOR	0	1820		
FLOOR	0	0		
/.PORCH	121	0		
PORCH	222	0		
ARAGE	511	0		
TALS	854	1820		
DER ROOF	26	74		
0	PTIONS			

	UNHEATED S.F.	HEATED S.F.
R DECK	172	0

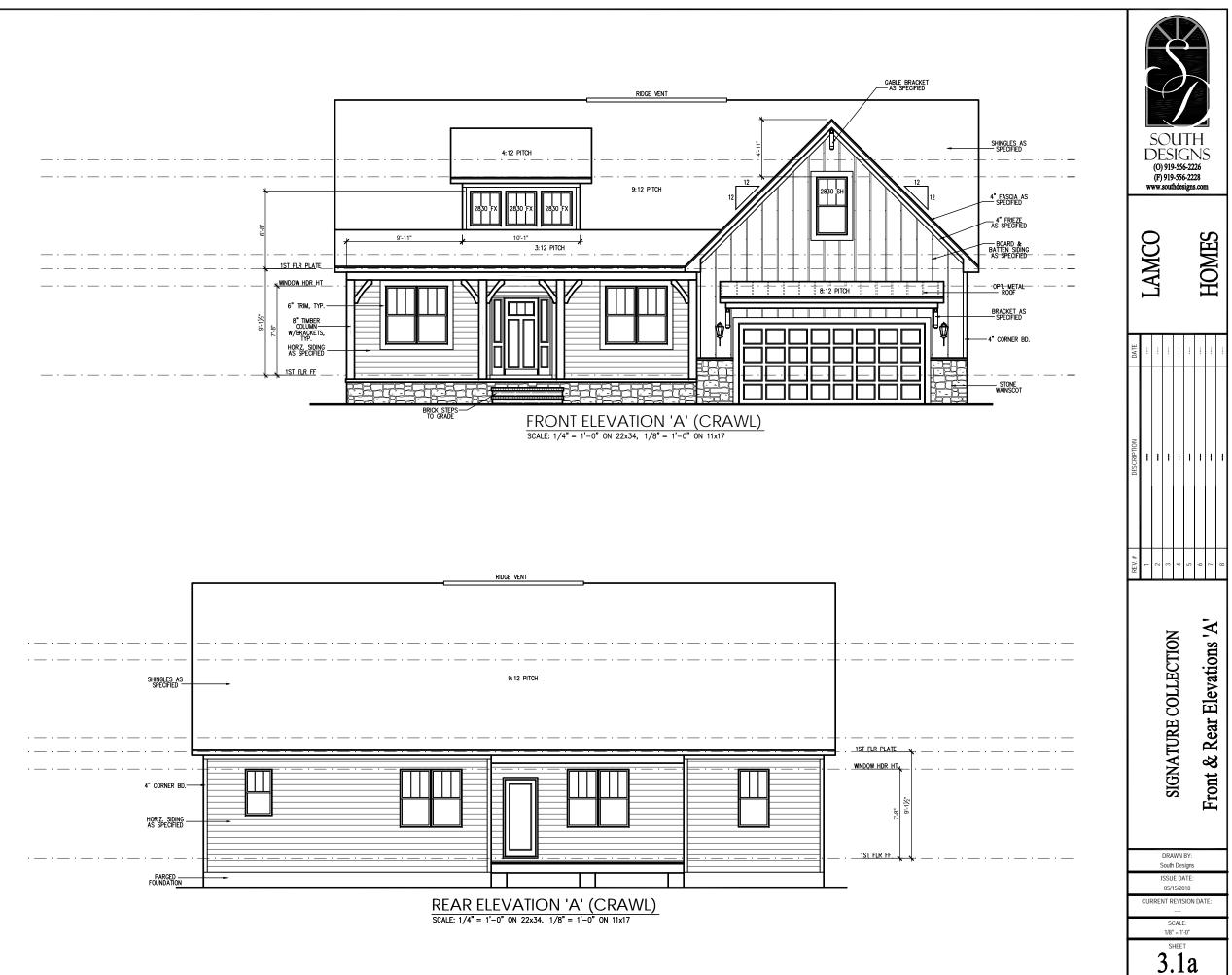
1820-Brooklyn - RH Rev.# DESCRPTION DATE 1820-Brooklyn - RH 1 1 1 2 1 1 1 3 1 1 1 4 1 1 1 5 1 1 6 1 1 7 1 1 8 1 1		SOUTH DESIGNS (0) 919-556-2226 (F) 919-556-2228 www.southdesigns.com							
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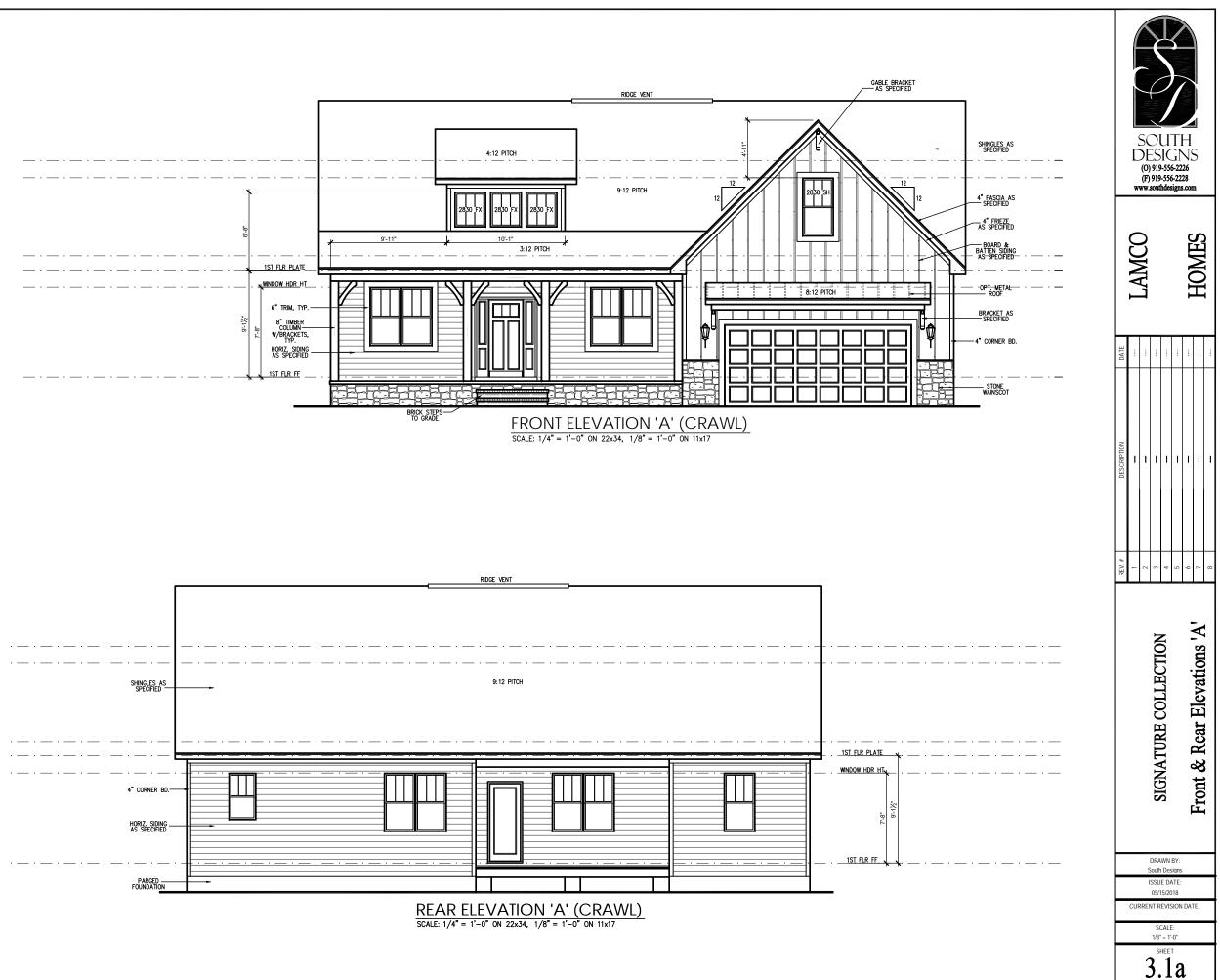
General Elevation Notes

General Elevation Notes shall apply unless noted otherwise on plan.

- Roof shall be finished with architectural composition shingles with slopes as noted on plan.
- Metal Roof finish is used as an accent material and may be optional, consult community specifications. NOTE: Metal roof is required on any roof slope of 3:12 regardless of Community Standard.
- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications
- Soffit Vent shall be continuous soffit vent, consult community specifications for material.
- 5. House Wrap, "tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations. "Zip" system sheathing may substitute for House Wrap.
- Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces. 6.
- Parch Railings shall be provided at all parch walking surfaces greater than 30° above adjacent finished grade. It shall be 36° high with guards spaced no more than 4° apart. Cansult community specifications for material.
- Finish Wall Material shall be as noted on elevation drawings. Consult community specifications for material make-up of siding, shown as generic on drawing.
- Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24 to c horizontally and 16 oc vertically so that no more than 2.67sf of brick is supported by (1) ties. Space between face of wall and back face of brick shall be limited to a 9. toce of wall and book toce of orack shall be initiated to a maximum of 1". Risshing shall be provided behind brick above all wall openings and at base of brick wall. Risshing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it laps <u>under</u> the house wrop material a minimum of 2". Weepholes shall be provided at a rate of 48" oc and shall not be less than 3/16" in diameter and shall be located immediately above flashina. flashing.
- Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. Lintels shall be provided as listed in the following schedule and shall have a minimum bearing length of 6². Masony Lintels shall be provided so that deflection is limited to L/600.

			Masonry Opening Lint	el Schedule
	<u>Openin</u>	g Size		Angle
F /40 [#]	up to	4'-0"		3-1/2" x 3-1/2" x
5/16"	4'-1"	to	5'-6"	4" x 3-1/2" x 5/16
	5'-7"		6'-6"	5" x 3-1/2" x 5/16
Ш٧	6'-7"	to	8'-4"	6" x 3-1/2" x 5/16
Ш٧	8'-5"	to	16'-4"	7" x 4" x 3/8" LLV





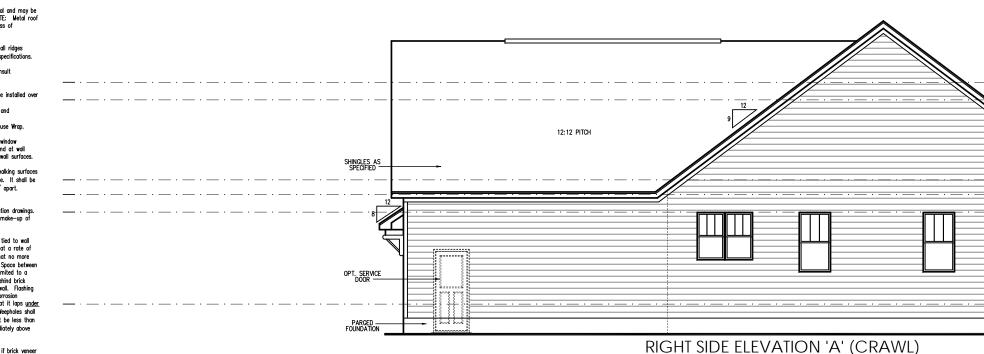
General Elevation Notes

General Elevation Notes shall apply unless noted otherwise on plan.

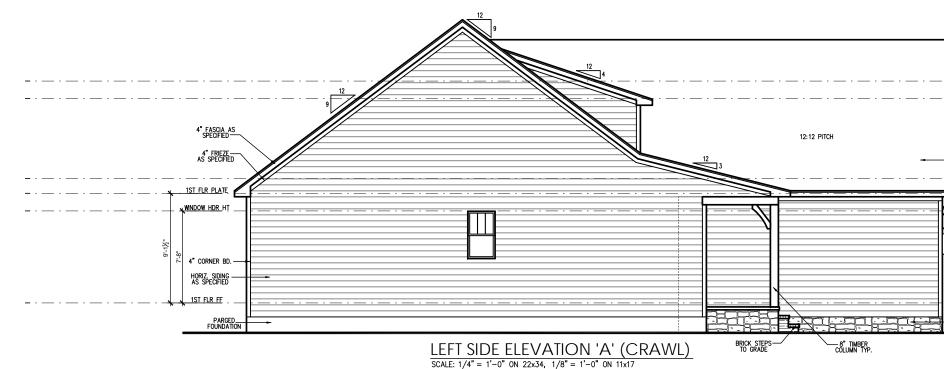
- Roof shall be finished with architectural composition shingles with slopes as noted on plan.
- Metal Roof finish is used as an accent material and may be optional, consult community specifications. NOTE: Metal roof is required on any roof slope of 3:12 regardless of Community Standard.
- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications
- Soffit Vent shall be continuous soffit vent, consult community specifications for material.
- 5. House Wrap, "tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations. "Zip" system sheathing may substitute for House Wrap.
- Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
- Porch Railings shall be provided at all porch walking surfaces greater than 30° above adjacent finished grade. It shall be 36° high with guards spaced no more than 4° apart. Consult community specifications for material.
- Finish Wall Material shall be as noted on elevation drawings. Consult community specifications for material make-up of siding, shown as generic on drawing.
- storing, shown as generic an arowing.
 9. Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24° ac horizontally and 16° ac vertically so that no more than 2.67s of brick is supported by (1) tie. Space between face of wall and back face of brick shall be limited to a maximum of 1°. Rashing shall be provided behind brick above all wall openings and at base of brick wall. Rashing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it large <u>under</u> the house wrap material a minimum of 2°. Weepholes shall be provided at a rate of 48° ac and shall not be less than 3/16° in diameter and shall be located immediately above flashing.
- Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. Lintels shall be provided as listed in the following schedule and shall have a minimum bearing length of 6. Masony Lintels shall be provided so that deflection is limited to L/600.

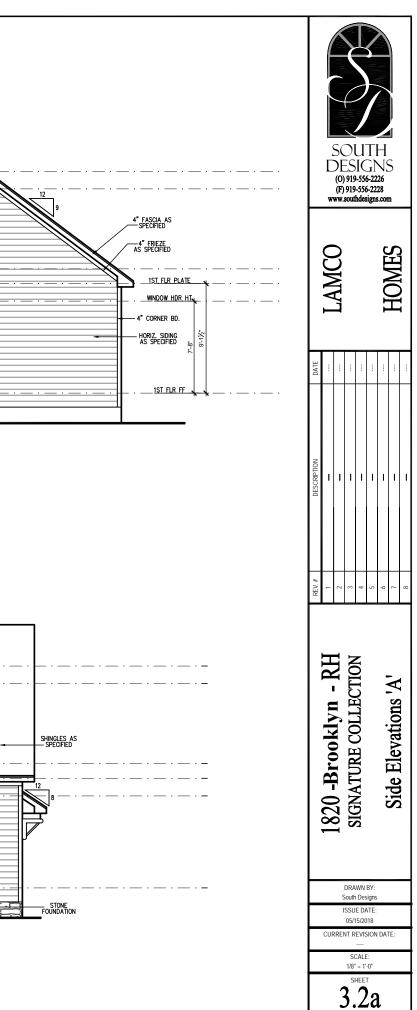
Masonry Opening Lintel Schedule

	<u>Openin</u>	<u>g Size</u>		Angle
E /4C*	up to	4'-0"		3-1/2" x 3-1/2" x
5/16" LLV	4'-1"	to	5'-6"	4" x 3-1/2" x 5/16"
	5'-7"		6'-6"	5" x 3-1/2" x 5/16"
ЩУ	6'-7"	to	8'-4"	6" x 3-1/2" x 5/16"
шv	8'-5"	to	16'-4"	7" x 4" x 3/8" ∐V



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





FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2012 NORTH CAROLINA RESIDENTIAL BUILDING I, CODE WITH ALL LOCAL AMENDMENTS.
- STRUCTURAL CONCRETE TO BE F_{c} = 3000 PGI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318. 2.
- FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF I² BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL.
- FOOTING SIZES BASED ON A PRESUMPTIVE SOLELI BEARING CAPACITY OF 2000 PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT 4
- FOR VERIFING THE GUIDADILT OF THE GUID GUID COLL COLLECTION. THE TIME OF CONSTRUCTION. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS, PROVIDE 2" MINIMUM FOOTING PROJECTION 5
- ROM THE FACE OF MASONRY. 6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION READAL OF THE 20/2 NORTH CAROLINA RESIDENTIAL BUILDING CODE. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS. 9 PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2012
- NORTH CAROLINA RESIDENTIAL BUILDING CODE. BRICK VENEERS
- CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL 11. DEBRIS.
- FOUNDATION ANCHORAGE SHALL BE A MIN. OF 1/2" DIA. ANCHOR BOLTS AND SHALL EXTEND A MIN. OF 1" INTO MASONRY OR CONCRETE. BOLTS SHALL BE 6'-0" OC. AND WITH IN 12" OF ALL PLATE SPLICES, MIN. (2) ANCHOR BOLTS PER PLATE SECTION. 13. ABBREVIATIONS:

TS = TIMBER STRAND	DJ = DOUBLE JOIST
SC = STUD COLUMN	DR = DOUBLE RAFTE
EE = EACH END	TR = TRIPLE RAFTER
TJ = TRIPLE JOIST	OC = ON CENTER
CL = CENTER LINE	PL = POINT LOAD

- 14. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16" MASONRY, TYPICAL, (UNO)
- 15. WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN
- 16. A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESENTATIVE. IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION, SUMMIT ENGINEERING | ABORATORY & TESTING P.C. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.
- ALL EQUINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 17 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL
- REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLDOWNS, ADDITIONAL INFORMATION PER SECTION R602.108 AND FIGURES R602.106.5, R602.10.1, R602.108(1) AND R602.108(2) OF THE 2012 IRC.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND NOT BRICK VENEER, UNO

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS

CLASSIFIED AS GROUP I PER TABLE R405.1

REINFORCE GARAGE PORTAL WALLS PER DETAIL 2/D2f OR FIGURE R602.10.9 OF THE 2012 IRC.

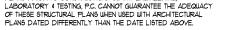
BEAM POCKETS MAY BE SUBSTITUTED FOR MASONRY PILASTERS AT GIRDER ENDS. BEAM POCKETS SHALL

HAVE A MINIMUM 4" SOLID MASONRY BEARING.

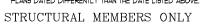
NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH

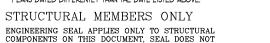
ARCHITECTURAL PLANS PROVIDED BY <u>SOUTH DESIGNS</u> COMPLETED/REVISED ON <u>05/15/2018</u>, IT 15 THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY 4 TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTON. SUMMIT ENGINEERING, LABORATORY 4 TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY

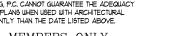




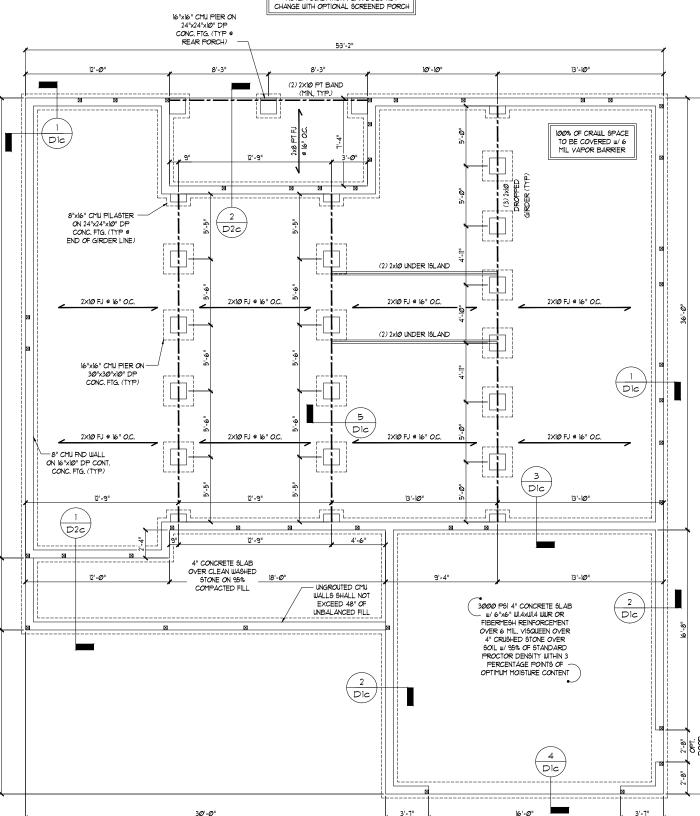


INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO









NOTE: FOUNDATION PLAN DOES NOT

ELEVATION A

53'-2"

STRUCTURAL ANALYSIS BASED ON 2012 NCRC.

BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

CRAWL SPACE FOUNDATION PLAN

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

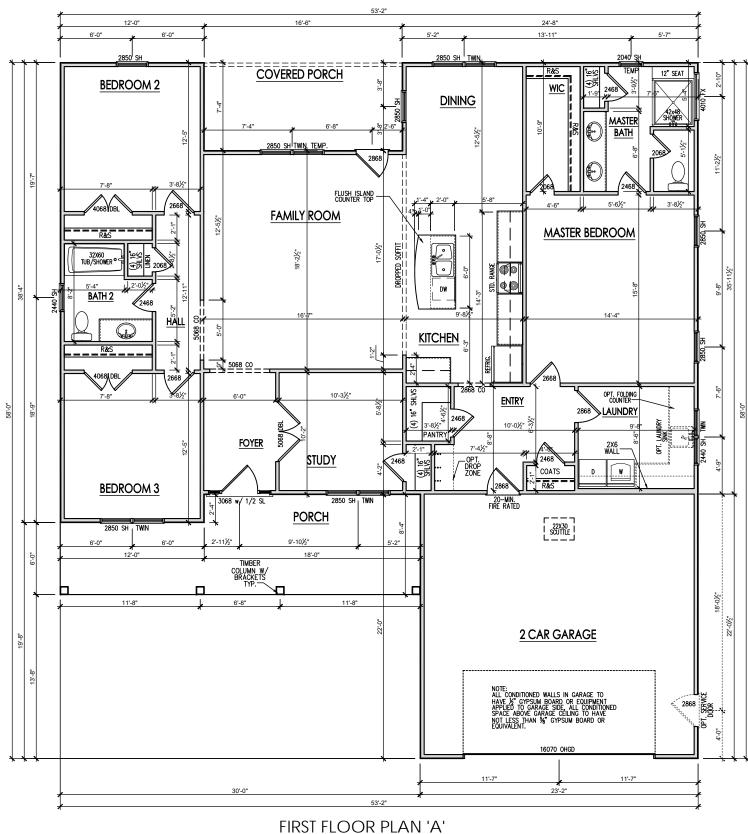
18"x24" MIN. CRAWL SPACE ACCESS DOOR TO BE
LOCATED IN FIELD PER BUILDER, PROVIDE MIN. (2) 2x10
HEADER OVER DOOR W/ MIN. 4" BEARING EACH END.
AVOID SHOWN POINT LOADS.

	SUMMIT Stan, P.C. Additional Standards of the standard of the
	CLIENT: South Designs c/o Lainco Homes PD Box 668 Wake Forest, NC 21586
	PROJECT: Crawl Space Foundation
	CALE 2024 K41-0 PRUET \$ \$6250 PRUET \$ \$6050 PRUET \$ \$60500 PRUET \$ \$60500 PRUET \$ \$60500 PRUET \$ \$60500
j	PROJECT * DATE 562367 09/5/09/6 PROTECT * 09/5/09/6 PROTECT OF OVER SHEET FOR A COPPLETE LIST OF REVISIONS SHEET S1.000

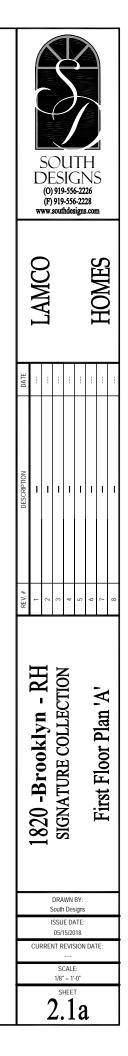
General Floor Plan Notes

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

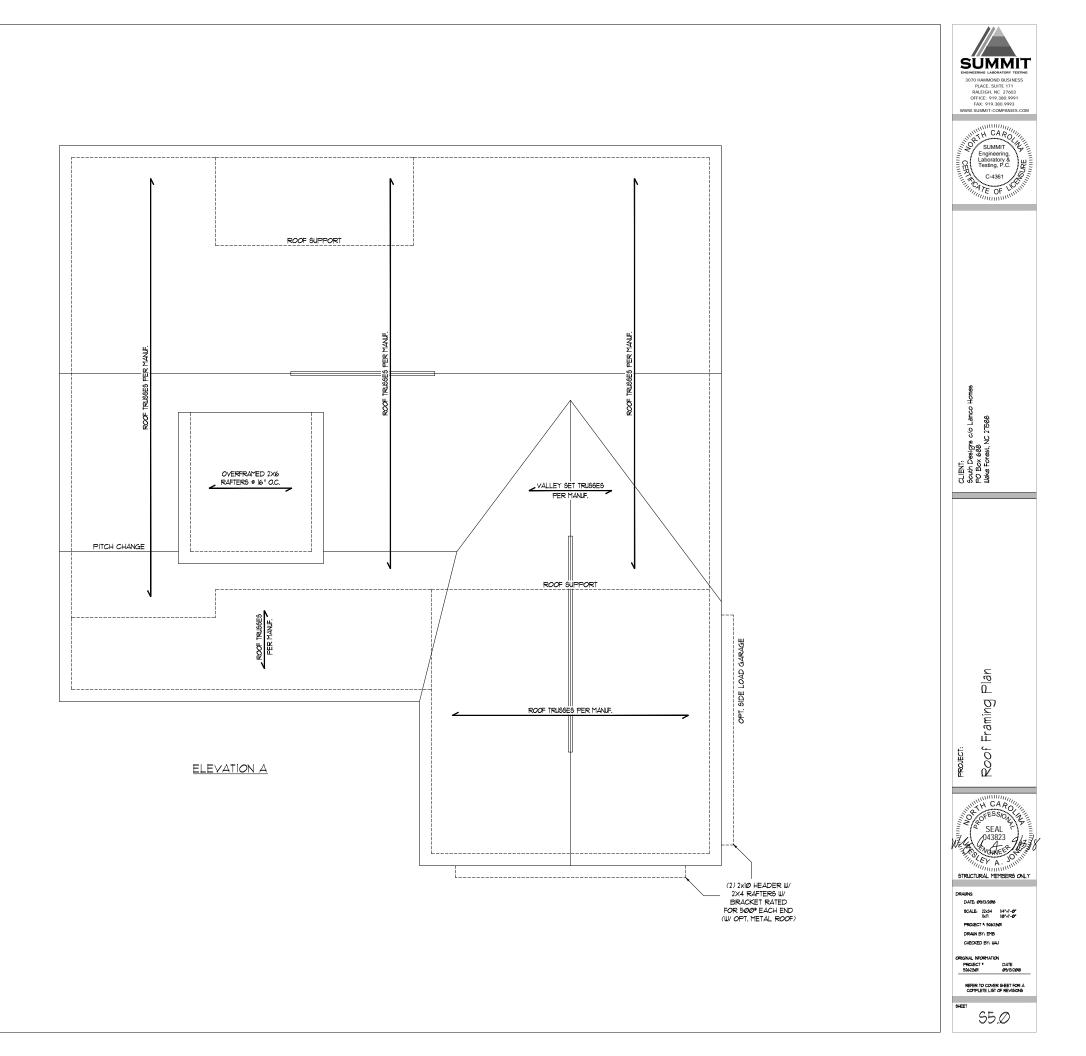
- Wall Heights: Typically 9'-1-1/2" at first floor and second floor, and 8' 1-1/2" at attics U.N.O.. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
- Wall Thickness is typically 4" at exterior walls, 3-1/2" at interior. 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
- 3. Header height shall be 7'-8" AFF at First Floor, and 6'-10" AFF at Second Floor unless noted otherwise.
- Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each side.
- Soffits, Coffered Cellings, Trey Cellings and other significant celling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens <u>do</u> <u>not</u> include soffits over wall cabinetry.
- 6. Door & Window Frames, where occurring near corners, shall be a minimum of 4-1/2" from corner. Except for walk-in closels with doors near a corner, doors at closets shall be centered on closet.
- Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. Fatse windows shall be installed with obscure glazing.
- Closels for clothing or coat storage shall be equipped with 1 rod/sheff, open wire. Closels for linen shall have 5 open wire shelves. Closels for pantries shall have 5 wood shelves, painted.
- Stair treads shall be 10" deep, risers shall be a maximum of 7-3/4", unless noted otherwise.
- 10. Handrails and Guards at stairs shall be 34* above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 36* above finished floor. Guards (pickets or bailsters) shall be spaced with no more than 4* between quards.
- 11. Attic Access shall be provided at all attic area with a height greater than 30°. Minimum clear attic access shall be 20° x 30°. Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
- 12. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
- 13.Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall and not less than 5/8" gypsum board or equivalent for all conditioned space above garage cellin



HRSI FLOOR PLAN 'A' SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



RUSS LAYOUT DRAI R ACTUAL NUMBER CONNECTO MAX. UF	8933 12439 15945 LLUSTRATION ONLY. WINGS PROVIDED	
10263 TBE, STP ? TOP P 1045 9622 12183 SHOUN ARE FOR II RUSS LAYOUT DRAI R ACTUAL NUMBER CONNECTOC MAX. UF	14025 LATE 12433 15945 LLUSTRATION ONLY. JIN45 PROVIDED	
TBE, SYP 2 TOP P 1245 9622 1289 SHOUN ARE FOR II RUSS LAYOUT DRAI R ACTUAL NUMBER CONNECTO MAX. UF	8933 12439 15945 LLUSTRATION ONLY. WINGS PROVIDED	
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	R SCHEDULE	
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	PLY *	
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4060	4 2	
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OR GRADE. RDER TRUSS CONN PLIED BY THE TRUS	ECTIONS ARE TO BE SO COMPANY. THE IESE CONNECTIONS.	
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SO WILL VOID	ATORY & TESTING, P. SUMMIT LIABILITY.	
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SCALE: 1/4"=1'-@" ON 22"x34" OR 1/8"=1'-@" ON 11"x17"

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ELE	CTRICAL SYMBOL KEY
LIGHT	FIXTURES
\$	CEILING SURFACE MOUNT LIGHT
₿	RECESSED CAN LIGHT
₩P	RECESSED CAN LIGHT WATERPROOF
₩ C	RECESSED CAN - EYEBALL
Ð	PENDANT LIGHTING
◙	WALL SCONCE
ф	WALL MOUNT LIGHT
¥	FLOOD LIGHT
OUTLE	TS
₽	DUPLEX OUTLET
	GFI OUTLET
	WATERPROOF GFI OUTLET
+	SWITCHED 1/2 HOT DUPLEX OUTLET
₩ 220v	220V OUTLET
•	TELEPHONE OUTLET
<u>B</u>	CATV (TELEVISION) OUTLET
+++ -+++++++++++++++++++++++++++++++++	UNDER-COUNTER OR CONCEALED OUTLE
Ø	CEILING MOUNTED DUP. OUTLET
SWITC	FLOOR MOUNTED DUP. OUTLET
\$	SINGLE POLE SWITCH
\$ ³	THREE-WAY SWITCH
\$ ⁴	FOUR-WAY SWITCH
	ELECTRICAL DISCONNECT
MISC	FIXTURES
-	EXHAUST FAN
¢	JUNCTION BOX
^{-Ф} 220V	JUNCTION BOX 220V
	CARBON MONOXIDE DETECTOR OR SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR AND SMOKE DETECTOR
	ELECTRIC METER
Elec Panel	ELECTRICAL PANEL
Ш	DOOR BELL CHIME
6	DOOR BELL PUSH BUTTON
	CEILING FAN PREWIRE
К Л 1001 К Л	FLUORESCENT LIGHT

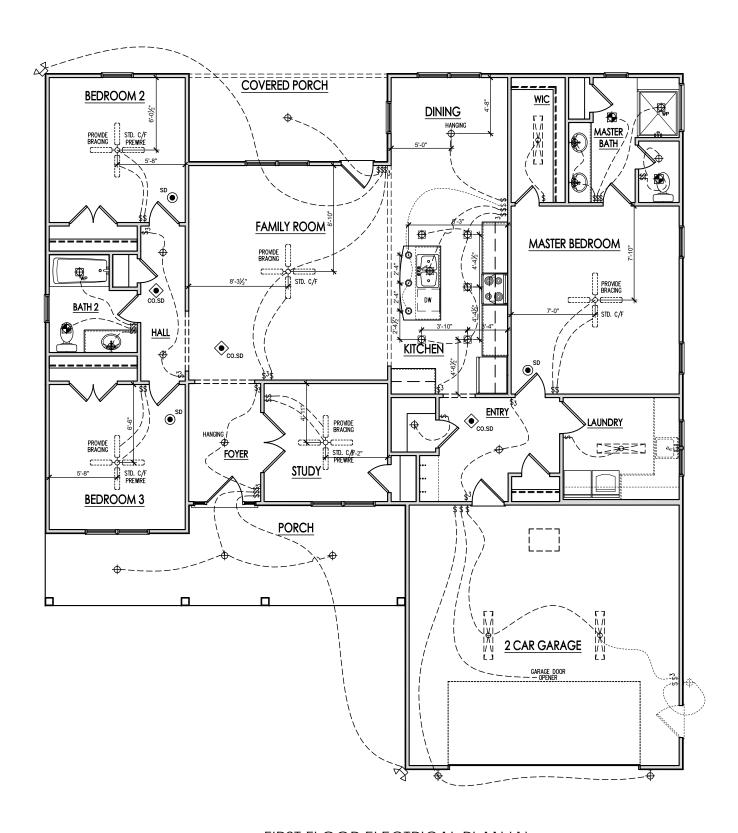


General Power and Lighting Notes shall apply unless noted otherwise on plans.

All work shall be installed per the 2012 NC Residential Building Code, and the National Electric Code. Alarm devices shall meet NFPA 72.

- Smoke Alarms Shall be provided as a minimum of (1) per floor, including basements (if applicable), (1) in each sleep room, and (1) outside each sleeping area, within the immediate vicinity of sleeping rooms. When more than one alarm is required, the alarm devices shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Smoke alarms shall be hard wired to permanent power and shall have batter back-ups.
- 2. Switches For lighting, fans, etc. shall be installed at heights illustrated on this page and shall be located a minimum of 4 1/2^e from door openings to allow for the proper installation of door casings. Switches, thermostats, security pads, and other similar devices shall be grouped together and installed thoughtfully for convenience of use and to avoid placement within centers of wall areas.

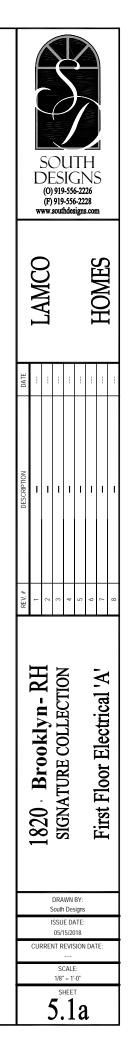
This plan is a diagram showing approximate locations of convenience outlets based on requirements found in the NC Resiential Code and N.E.C. Actual positions may vary from what is shown on plan.



ELECTRICAL BOX HEIGHTS

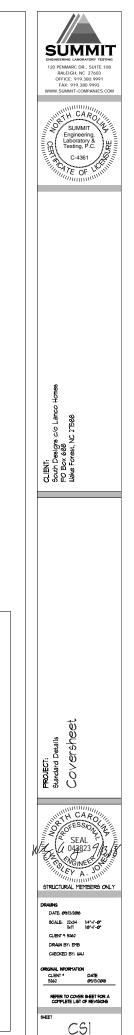
PHONE & TV RECEPTACLES 4'-6" Hermostat

> FIRST FLOOR ELECTRICAL PLAN 'A' SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



	DESIGN SPECIFICATIONS: Construction Type: Commerical Applicable Building Codes: • 20/2 North Carolina Residential Building Code • ASCE 1-10: Minimum Design Loads for Buildings Design Loads: 1. Roof Live Loads 12. Truss 21. Actic Truss 22. Truss 3. Snow 3. Importance Factor 4. Floor Live Loads 4. Poor Live Loads 2. Truss 3. Snow 3. Importance Factor 4. Floor Live Loads 4. Passenger Garage 4. Passenger Garage 5. Floor Dead Loads	and Other Structures	ADDRESS:	SHEET LIGT: Sheet No. CGI Dis Dis Dic Dib Dic Dib Dif Revision	Description Cover Sheet, Specifications, Revisions Monolithic Slab Foundation Details Stem Wall Foundation Details Crawl Space Foundation Details Basement Foundation Details Framing Details Framing Details Framing Details
	III. III. III. III. III. ZONE I I65I80 III.3I8.9 I8.1 ZONE 2 I65210 III.322.1 I8.1 ZONE 3 I65210 III.322.1 I8.1 ZONE 4 I8019.5 I8.920.5 I3.1	•'''-40// 40'''-45' These drau electrical, structural electris, structural electrical, structural electris, struct	signs 388 389 389 ast, NC 21588 Ings are to be coordinated with the architectural, mechanical, plumbing, and civil drawings. This coordination is not the responsibility of the mgineering of record (SER). Should any discrepancies become the contractor shall notify SUMMIT Engineering, Laboratory 4 Testing, a construction begins. REVIATIONS: CHOR BOLT PT PRESSURE TREATED OVE FINISHED FLOOR R5 ROOF SUPPORT LING JOIST SC 6TUD COLUMN EAR SJ SINGLE JOIST UBLE JOIST SPF SPRICE PINE FIR UBLE 51D POCKET S51 SIMPSON STRONG-TIE CH END SYP SOUTHERN YELLOW PINE		Ite Project No. Description Image: I
 GENERAL STRUCTURAL NOTES: 1. The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structura. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMTIT Engineering. Laboratory 4 Testing, P.C. (SUMTIT) or the SER. For the purposes of these construction documents the SER and SUMTIT shall be considered the same entity. 2. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure. 3. The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of the structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur. 4. Any structural elements or details not fully developed on the construction down before any construction begins. The shop drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMTIT for review before any construction begins. The shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT. 5. Verification of assumed field conditions is not the responsibility of the SER is not responsible for any secondary structural elements or non-structural dements, except for the elements specifically noted on the structural damings. 6. The SER is not responsible for any secondary structural elements or non-structural damings. 7. This structura and all construction shall conform to all applicable sections of the international residential code. 8. All structural angineer has not performed a subsurface investment local building codes. 9. A	 The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade. Any fill shall be placed under the direction or recommendation of a licensed professional engineer. The resulting soil shall be compacted to a minimum of 95% maximum dry density. Excavations of footings shall be lined temporarily with a 6 mill polyethylene membrane if placement of concrete does not occur within 24 hours of excavation. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material. STRUCTURAL STEEL: Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Construction Tode of the manual of Steel shall receive one coat of shop applied rust-inhibitive paint. All steel shall rooform to the latest edition of the American Welding Society's Structural Welding Code All& DIL. Electrodes for shop and field welding shall be class ETØXX. All welding shall be performed by a certified welder per the above standards. Concrete shall have a normal weight aggregate and a minimu compressive strength (fc) at 28 days of 3200 psi, unless otherwise noted on the plan. Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 38: "Building Code Requirements for Reinforced Concrete" and ACI 30: "Specifications for Structural Concrete for Buildings". Air entrained correte must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to 42% of target values as follows: 3. Footings: 5%	 Concrete slabs-on-grade shall be constructed with ACI 307.IR-96: "Guide for Concrete Slab a Construction". The concrete slab-on-grade has been designed subgrade modulus of k:250 pci and a design la pati. The SER is not responsible for differential cracking or other future defects resulting from conditions not in accordance with the above as Control or sau cut joints shall be spaced in hits slabs-on-grade at a maximum of 15'-0" Oc. and slabs-on-grade at a maximum of 15'-0" or con- response of the produced usin process within 4 to 12 hours after the slab has be process within 4 to 12 hours after the slab has be process within 4 to 12 hours after the slab has be placed at mid-depth of slab. The WWF, shall supported during the concrete pour. CORCETE REINFORCEMENTI: Fibrous concrete reinforcement, or fibermesh, sp concrete slabs-on-grade may be used for cont due to shrinkage and themal expansion/contrac water migration, an increase in impact capacity, i abrasion resistance, and residual strength. Fibermesh reinforcing to be 100% virgin polypor containing no reprocessed olefin materials and manufactured for use as concrete secondary rei abrasion of fibermesh per cubic yand of con a minimum of 01% by volume (15 pounds per cubic ASTI A615, grade 60. Detailing, fabrication, and placement of reinforc be in accordance with the latest edition of ACI Standard Practice for Detailing Concrete for Costandard protection for shall be new billet steel of ASTI A615, grade 60. Detailing, fabrication, and placement of reinforc be in accordance with the latest edition of ACI Standard Practice for Detailing Concrete for tension aplice. Lap reinforcement as required, a minimum of 40 bit do and shall have 90' bends, or corner bars with to size/spacing as the horizontal reinforcement with tension splice. Lap reinforcement as required, a minimum of 40 bar diameters. 	nd Slab in size and spacing to the vertical reinfor shall extend 48 bar diameters vertically an into the footing. ising a sading of 200 settlement, slab io. Where reinforcing steel is required vertical provided unless otherwise noted. wood FRAMINS: sumptione. rior in exterior beruise noted. io. Where reinforcing steel is required vertical provided unless otherwise noted. wood FRAMINS: sumptione. rior in exterior beruise noted. io. Of FRAMINS: io. Of FRAMINS: sumptione. rior of context, with concrete, major with con-orgade shall be securely 2. LVL or FSL engineered wood shall have to design values: governitional escified in ord of cracking tion, lowered norceased 2. LVL or FSL engineered wood shall have to design values: governitional spruce-Yellow-Pine (SYF) *2. 2. LVL or FSL engineered wood shall be the design values: governitional contract with concrete, masorry, or pressure treated in accordance with AWP- other moleture exposed wood shall be the with AWP-A standard C-2 3. Wood in contact with concrete, masorry, or pressure treated in accordance with AWP- other moleture exposed wood shall be the science shall equal cost of the standard C-2 4. Nalls shall be common wire natis unless other industry 6. All beams shall hore full bearing on suppor of one king stud shall be placed at each King studs shall be continuous. 8. Individual studs forming a column shall be nall e 6" OC, staggered. The stud column to the foundation or beam. The colum shall blocked at all floor levels to ensure prop e continuous e same a class B io. Four and five pip beams shall be bolted t of 1/2" diameter through bolts staggered noted othe	coment. The douel nd 20 bar diameters ally, douels shall be nform to the of the "National off the "National" off the National off the National off the "National" off the "National	 WOOD TRISSES: The wood truss manufacturer/fabricator is responsible for the design of the wood trusses. Submit sealed shop drawings a supporting calculations to the SER for review prior to fabrication. The SER shall have a minimum of five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume responsibility for the correctness for the structural design in the wood trusses shall be designed for all required loading as specifications. The trusses for the structural design if (ASCE 1-10), and the loading requirements shown on these specification documents and provisions provided for blade shown on these drawings including to the trusses. The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction," (NDS) and "Design Specification for Wood Construction," (NDS) and "Design Specification for Metal Plate Connected Wood Trusses." The trusses shall be designed, fabricated, and erected in accordance with "Commentary and Presign Specification for Healt Plate Connected Wood Trusses." The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses." The trusses, shall be designed on these drawings have bee shown as a reference only. The final design of the trusses be per the manufacturer. EXTERCR WOOD FRAMED DECKS: Decks are to be framed in accordance with local building codes and as referenceed on the structural plans, either truscades are bergenced on the structural plans, either the code and a reference on the structural plans, either the code shown on the set on the structural plans, either the code and a reference on the structural wood sheathing shall in accordance with the APA Design/Construction Guide "Residential and Commercial

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	 3. Wood wall sheathing sha
3	building codes for the
nd	drawings. Refer to wall
	information. Sheathing sh
·	perpendicular to framing
	4. Roof sheathing shall be
no	Roof sheathing shall be
or	attached to its support

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- all comply with the requirements of local a popportate state as indicated on these I bracing notes in plan set for more shall be applied with the long direction not where noted otherwise ng, unless noted otherwise. The APA rated sheathing exposure 1 or 2.
- Roof sheathing shall be APA rated sheathing exposure I or 2.
 Roof sheathing shall be continuous over training usypports and attached to its supporting roof framing uith (1)-8d CC rail at 6'o/c at panel edges and at 10'o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied uith the long direction perpendicular to framing. Sheathing shall be applied uith the long direction perpendicular to framing sheathing shall be applied uith the long direction perpendicular to framing. Sheathing shall be average a support by use of pluyuood clips or limber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
 Wood floor sheathing shall be APA rated sheathing exposure I or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshark nail at 6'o/c at panel edges and at 2'o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall be applied perpendicular to framing. Sheathing shall be applied to the plane.
- 5. field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T& plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code. Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.
- 6
- STRUCTURAL FIBERBOARD PANELS:
 Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
 All structurally required fiberboard sheathing shall bear the mark of the AFA.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more
- information. Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.

ROOF TRUSS NOTES:

DO NOT CUT, DRILL, NOTCH, OR OTHERWISE DAMAGE TRUSSES. Contact your BFS Representative for assistance PRIOR TO modifying

any truss. Espanol - (NO CORTE, PERFORE, HAGA MUESCAS O DANE DE CUALQUIER OTRA MANERA LAS TRUSSES (CERCHAS DE MADERA) Contacte a su representante de BFS para

asistencia ANTES de realizar cualquier modification.) 1. This Truss Placement Diagram is intended to serve

as a guide for truss installation. This Diagram has been prepared by a Truss Technician and is not an engineered drawing.

2. The responsibilities of the Owner, Building Designer, Contractor, Truss Designer, and Truss Manufacturer shall be as defined by the TPI 1 National Standard.

3. The wood components shown on this diagram are to be used in dry service (moisture content<19%) and non-toxic environmental applications. The metal plates and hangers are galvanized to the G60 Standard unless noted otherwise.
4. Refer to the Truss Design Drawings for specific

 Refer to the Truss Design Drawings for specific information about each individual truss design.
 The Truss Technician shall provide Truss-to-Truss Connection Requirements. Any special or other connection shall be the responsibility of the Building

Designer. 6. The Truss Placement Diagram and Truss Design Drawings are the property of Builders FirstSource and may not be reused or reproduced in part or in total under any circumstances without prior written authorization.

7. In some cases, field framing may be required to achieve the final appearance shown on the Construction Documents.

8. Field framing, including valley rafters, installed over roof trusses shall have a knee brace from the rafter to the truss top chord at intervals of 48" on center (O.C.) or less. Stagger knee braces from adjacent rafters such that the load is distributed uniformly over multiple truss locations and not concentrated at one location or along one truss.

a. Truss Top Chords shall be fully sheathed or have lateral bracing (purlins) spaced at 24th O.C. or less. Truss Bottom Chord Bracing shall not exceed the maximum shown on the Truss Design Drawing. Field framed bottom chord floor or ceiling attachments shall be spaced at 24th O.C. or less. Proper Bracing prevents buckling of individual truss members due to design loads. 10. This Placement Diagram is based upon the

10. This Placement Diagram is based upon the supporting structure being structurally adequate, dimensionally correct, square, plumb, and level to adequately support the trusses. The foundation design, structural member sizing, load transfer, bearing conditions, and the structure's compliance with the applicable building code are the responsibility of the Owner, Building Designer, and Contractor.
11. If Piggyback Trusses are included in this project, refer to the Mitek Piggyback Connection Detail applicable for the project details and wind load

category. 12. The Contractor shall follow the SBCA TTB Partition Separation Prevention and Solutions for truss attachment to non-load bearing walls and carefully complete these details to avoid gypsum wall board related issues.

WARNING:

TRUSSES MUST BE BRACED DURING INSTALLATION. FAILURE TO DO SO MAY RESULT IN INJURY OR DEATH. Espanol - (TRUSSES (CERCHAS) DEBERAN TENER UN SOPORTE DURANTE LA INSTALACION.

NO HACERLO PODRIA RESULTAR EN LESIONES O MUERTE.) 1. Trusses shall be installed in a safe manner meetin

 Induses shall be installed in a safe infanite internity all code, local, OSHA, TPI, and BCSI Specifications.
 Failure to follow these specifications may result in injury or death.
 Buildings under construction are vulnerable to high

 Buildings under construction are vulnerable to high winds and present a possible safety hazard. The Contractor is responsible for recognizing adverse

weather conditions and shall take appropriate action to prevent injury or death. 3. BCSI INSTRUCTIONS SHALL BE FOLLOWED:

BCSI-B1 = Safe Truss Handling and Installation BCSI-B2 = Installation and Temporary Restraint

- BCSI-B2 = Installation and Temporary BCSI-B3 = Permanent Restraint
- BCSI-B4 = Safe Construction Loading

BCSI-B5 = Truss Damage and Modification Guidelines BCSI-B7 = Floor Truss Installation

BCSI-B7 = Floor Truss Installation BCSI-B8 = Toe-Nailed Connections

BCSI-B9 = Multi-Ply Girders

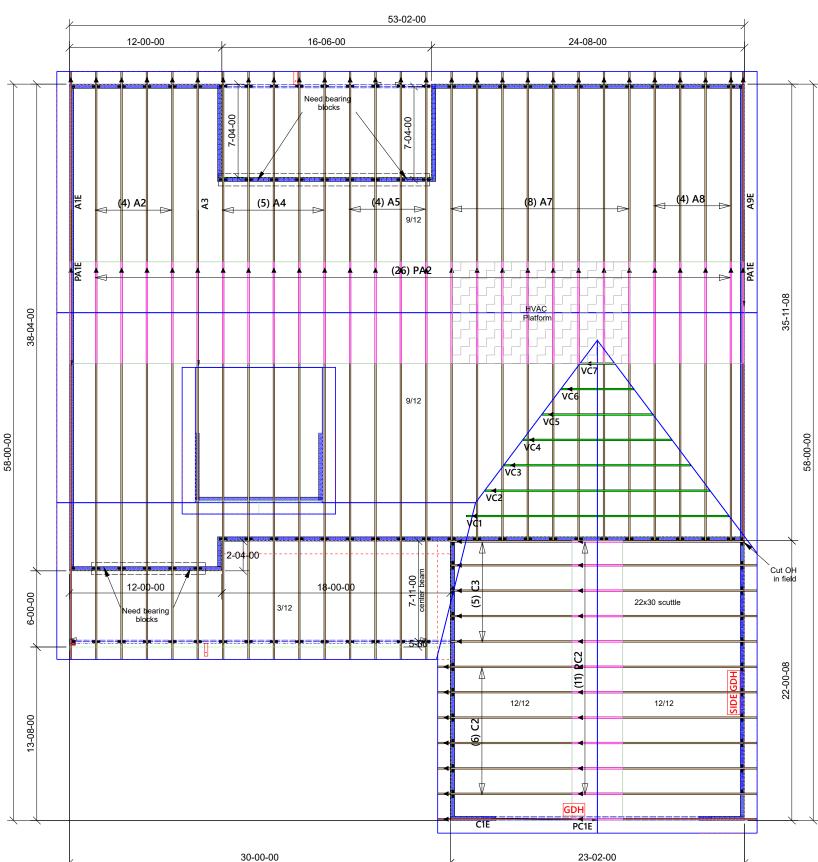
BCSI-B10 = Post Frame Truss Installation BCSI-B11 = Fall Protection

BCSI-B11 = Fall Protection 4. Follow TPI Requirements for Long Span Trusses

TOTAL ROOF AREA

3676.83 SQ FT

(>60').



53-02-00

 PlotID
 Length
 Proc

 GDH
 18-00-00
 1-3/4

 SIDE GDH
 18-00-00
 1-3/4

			No	Sca	le
	le and present a safety hazard. Truss instability may increase with building width, height, and length. Buildings under ponsibility of the contractor and framer to recognize adverse weather conditions and take prompt and appropriate action to Information (BCSI) document produced by SBCA and TPI. Follow BCSI Specifications for Erection and Bracing.	Customer Name: Lamco Custom Homes	2	Plan Name: Brooke A	BROOKE A
	ility may increase with t ecognize adverse weath SBCA and TPI. Follow BC	Customer Na	Subdivision:	LOL# : . MISC NOTES: .	File Name
Products poduct Plies Net Qty /4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 2 2 /4" x 14" VERSA-LAM® 2.0 3100 SP 2 2	Until the building is completely erected in accordance with plans, the trusses may be unstable and present a safety hazard. Truss instability may increase with building width, height, buildings under construction and the prompt and appropriate action to construction and take prompt and appropriate action to prostitic actions to recognize adverse weather conditions and take prompt and appropriate action to protect if and prevent injury. Philo to setting trusses, refer to Building Component and Bacing. Building to the prompt and appropriate action to protect if a different to high winds and present a progress. Fefer to Building Component Bafet J Information (BCSI) document produced by SBCA and PTI. Follow BCSI Specifications for Frection and Bracing.		Dra D 4/2	/isior /isior	ns: By: :: 019