# **GENERAL NOTES:**

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL DIMENSIONS, ROOF PITCHES, AND SQUARE FOOTAGE ARE CORRECT PRIOR TO CONSTRUCTION. K&A HOME DESIGNS, INC. IS NOT RESPONSIBLE FOR ANY DIMENSIONING, ROOF PITCH, OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- 2. ALL WALLS SHOWN ON THE FLOOR PLANS ARE DRAWN AT  $4^{\prime\prime}$  UNLESS NOTED OTHERWISE.
- 3. ALL ANGLED WALLSHOWN ON THE PLANS ARE 45 DEGREES UNLESS NOTED OTHERWISE.
- 4. STUD WALL DESIGN SHALL CONFORM TO ALL NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS.
- 5. DO NOT SCALE PLANS. DRAWING SCALE MAY BE DISTORTED DUE TO COPIER IMPERFECTIONS.
- 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA RESIDENTIAL STATE BUILDING CODE, 2018 EDITION.

# **SQUARE FOOTAGE**

HEATED SQUARE I	OOTAGE	UNHEATED SQUARE FOO	TAG
FIRST FLOOR=	2005	GARAGE= 56	4
SECOND FLOOR=	932	FRONT PORCH= 17	6
THIRD FLOOR=	N/A	SCREEN PORCH= 21	4
BASEMENT=	N/A	SIDE PORCH= 21	
		OPT. DECK= 81	
		OPT. REC.= 221	[
TOTAL HEATED=	2937	TOTAL UNHEATED= 12	277

## **CRAWL SPACE VENTILATION CALCULATIONS**

-VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON THE PLAN BUT SHOULD BE PLACED TO PROVIDE ADEQUATE VENTILATION AT ALL POINTS TO PREVENT DEAD AIR POCKETS.

-100% VAPOR BARRIER MUST BE PROVIDED WITH 12" MIN. LAP JOINTS.

-THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 AS LONG AS REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED. (COMPLY WITH NC CODE MIN. WITH REGARD TO VENT PLACEMENT FROM CORNERS)

SQ. FT. OF CRAWL SPACE/1500

N/A SQ. FT. OF REQUIRED VENTILATION

PROVIDED BY: N/A VENTS AT 0.45 SQ. FT. NET FREE VENTILATION EACH= N/A SQ. FT. OF VENTILATION

\*\*FOUNDATION DRAINAGE- WATERPROOFING PER SECTIONS 405 & 406.

## **ATTIC VENTILATION CALCULATIONS**

- CALCULATIONS SHOWN BELOW ARE BASED ON VENTILATORS USED AT LEAST 3 FT. ABOVE THE CORNICE VENTS WITH THE BALANCE OF VENTIALTION PROVIDED BE EAVE VENTS.

- CATHEDRAL CEILINGS SHALL HAVE A MIN. 1" CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

2968 SQ. FT. OF ATTIC/300=

EACH OF INLET AND OUTLET REQUIRED.

## \*WALL AND ROOF CLADDING DESIGN VALUES

- WALL CLADDING IS DESIGNED FOR A 24.1 SQ. FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE.

- ROOF VALUES BOTH POSITVE AND NEGATIVE SHALL BE AS FOLLOWS:

45.5 LBS. PER SQ. FT. FOR ROOF PITCHES OF 0/12 TO 2.25/12

34.8 LBS. PER SQ. FT. FOR ROOF PITCHES OF 2.25/12 TO 7/12

21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

\*\* MEAN ROOF HEIGHT 30' OR LESS



**FRONT ELEVATION** 







23-105 3-23-23 Scale: REFER TO ELEV.

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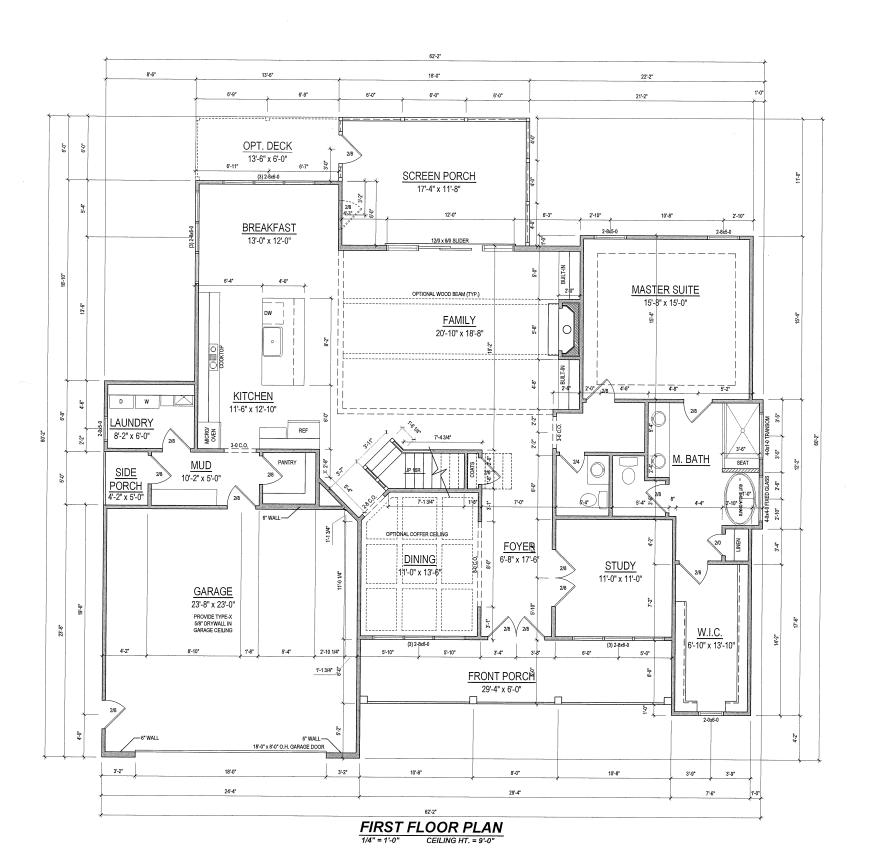


t 8, Farms Lot &

J. Douglas Contracting 3337 Air Park Road, Suite 3 Fuquay-Varina, NC 27526

**ELEVATIONS** 

Sheet Number



Project #: 23-105 Date: 3-23-23 Drawn/Design By: KBB Scale: 1/4" = 1'-0"

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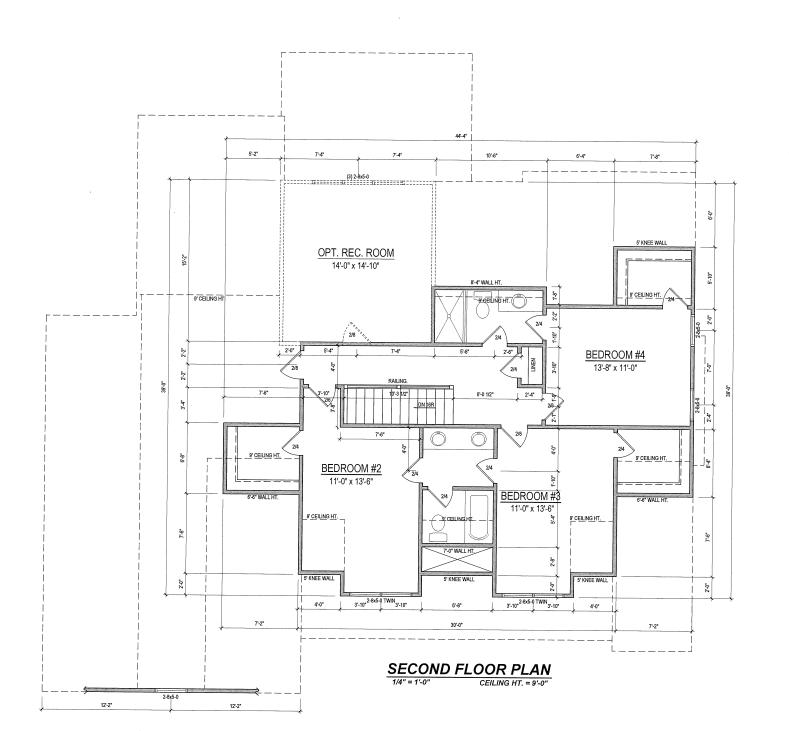
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FIRST FLOOR

Sheet Number 2

of 4



Project #: 23-105 Date: 3-23-23 Drawn/Design By: KBB Scale: 1/4" = 1'-0"

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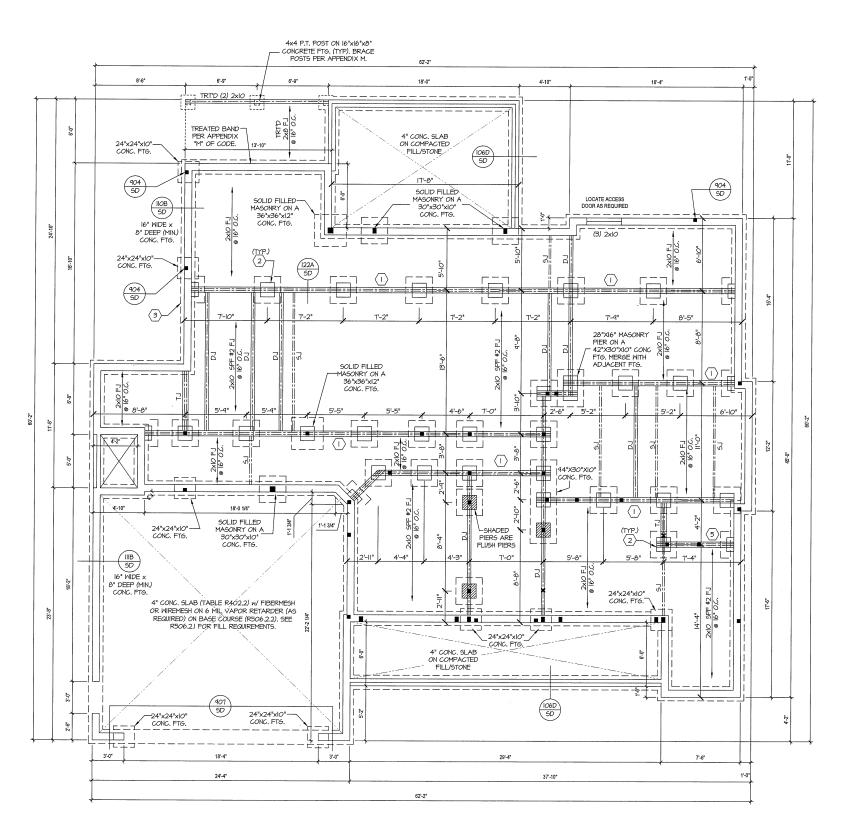
Lot 8, Cotton Farms

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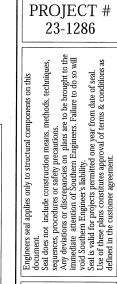
SECOND FLOOR

Sheet Number

3



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3 .. WALL FOOTING AS FOLLOWS

BRICK:

FOUNDATION STRUCTURAL NOTES NC (2016 NCRC): Wind: 115-120 mph - CRAWL

(3)2xIO SYP#2 OR SPF#2 GIRDER, TYPICAL UNO.

CONCRETE BLOCK PIER SIZE SHALL BE: SIZE MCLLON SOLID 8xl6 UP TO 32" UP TO 5'-0' 12xl6 UP TO 48" UP TO 9'-0' 16xl6 UP TO 64" UP TO 12'-0' 24x24 UP TO 66'

8" - UP TO 2 STORY IO" - 3 STORY

16" - UP TO 2 STORY 20" - 3 STORY 16" - 1 STORY 20" - 2 STORY 24" - 3 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REGUIREMENTS, REFER TO CODE TABLE RAGALLI (I REJUREMENTS, ASSIMED SOLI BEARING CAPACITY ' 2000 PSF. CONTRACTOR MIST VERIFY SITE CONDITIONS AND CONTACT SOILS BIGINEER IF MARSINAL OR INSTABLE SOILS ARE BECONTERED.

(4) 2xIO SPF #2 OR SYP #2 GIRDER

(2) 1.75x9.25 LVL OR LSL GIRDER

(3) 1.75x9.25 LVL OR LSL GIRDER

"" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER, SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO PIND, TYPICAL.

ABBREVIATIONS:
"SJ" = SINGLE JOIST
"DJ" = DOUBLE JOIST
"TJ" = TRIPLE JOIST

ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS.

FRAMING NOTE: ALL DIMENSIONAL LUMBER ON THIS SHEET MAY BE SPF #2 OR SYP #2, UNLESS SPECIFICALLY NOTED OTHERWISE.

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P.A. 27609

DESIGNS, INC. K&A HOME

J. DOUGLAS CONTRACTING Cotton Farm  $\infty$ Lot

FOUNDATION STRUCTURAL PLAN

SCALE: 1/4"=1'-0"



FRAMING NOTES NC (2018 NCRC): Wind: 115-120 mph

- BRACING METHOD AND TYPE. CONTINUOUSLY SHEATHED HSP: CS-HSP. MOTE THAT THE MALL BRACING AMOINT PROVIDED ON THE PLANS OFFILIAL SHOWS) IS GREATER THAN THE AMOINT OF MALL BRACING REQUIRED BY SECTION REOZIO OF THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING.
- EXTERIOR WALL SHEATHINS: WALLS SHALL BE BRACED BY SHEATHINS WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHINS (MSP) (EXPOSURE B. 176): EXPOSURE C. 1527). SHEATHINS SHALL BE ATTACHED WITH 60 MAILS AT A 6'7/2' NAILING PATTERN (6' OC. AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS), INSTALL BLOCKING AT ALL PANEL EDGES.
- MSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF PER SECTION REO2JO.45 AND ATTACH BRACED WALLS PER CODE. HEY SHEATHING BETWEEN FLOORS SHALL BE SPLICED ALONG CONTINUOUS BAND OR THE MSP SHEATHING MAY BE SPLICED ALONG SOUTHOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES. (MINIMUM 12" BEYOND FLOOR
- "HD" = HOLDONN, HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS)
  SHALL BE AN BOO POAND CAPACITY ASSEMBLY AS NOTED ON PLANS,
  SEE DETAILS FOR HO ASSEMBLY,
  "\*\*GRAND/TIRST FLOOR, USE "HD HOLD-DOWN DETAIL" ON SD SHEET
  (OR EQUIV)
- (OR EQUIV)

  ""UPPER PLOORS." ATTACH BASE OF KING STUD WITH A SIMPSON

  6520 OR CEHP20 STRAP DOWN ACROSS THE BAND AND DOWN TO A

  STUD BELON OR HEADER BELON. EXTEND STRAP T' HAN ALONG EACH

  STUD (OR HEADER) AND ATTACH EACH BND W (7) 8d NAILS.
- INTERIOR BRACED WALL: (NOTED AS "I<u>BIA"</u> ON PLANS) ATTACH I/2" GYPSIM BOARD (6B) ON EACH SIDE OF WALL WITH A MIN, OF 5d COCILER NAILS OR 46 SCREMS @ 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.
- INTERIOR BRACED HALL-MOOD STRUCTURAL PANEL, (MOTED AS "IDH-MESS" ON PLANS), ATTACH ONE SIDE WITH 36" NSP SHEATHING WITH BO ANALLS AT A 6"712" NALLING PARTIERN (6" OC AT PANEL EDGES AND 12" OC AT INTERNEDIATE SUPPORTS), INSTALL BLOCKING AT ALL PANEL EDGES, ATTACH GO VORE NSP AS REQUIRED, ATTACH OF OVER NSP AS REQUIRED, ATTACH OF SCREWE 6 1" OC ALONG THE EDGES AND AT INTERNEDIATE SUPPORTS.

## HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" NALL) OR (3)2x6 (6" MALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STIDD REQUIRED INTO POCKET OR COLUMN. THE NUMBER OF KIND STUDS AT EACH BY OF HEADERS IN EXTENDED AT EACH BY OF HEADERS IN EXTENDED AT HEADER SHOOT STUDS AT ALL OFFENINGS TRAVED 147–2020.

  IV TO 3" SPAN, (1) KIND STUD OVER 6" UP TO 9" SPAN, (2) KINS STUDS OVER 6" UP TO 9" SPAN, (3) KINS STUDS OVER 6" UP TO 9" SPAN, (4) KINS STUDS OVER 6" UP TO 19" SPAN, (4) KINS STUDS OVER 6" UP TO 19" SPAN, (5) KINS STUDS OVER 6" UP TO 19" SPAN, (6) KINS STUDS OVER 6" UP TO 19" SPAN, (6) KINS STUDS STUDS

- PORCH POST NOTES:

  4X4 (6x6) TRITO POST (OR EQUAL).

  ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONVECTORS.
- HURRICANE CONNECTORS.

  POST CAP: SIMPSON AC4-MAX (AC6-MAX)

  POST CAP AT CORNER: (2) SIMPSON LCE4

  (MITER HEADER AT CORNER). HIGH WIND; ADD (1)
- (MILEX HEADER AT CORNEW), HIGH MIND, ADD (I SIMPSON HEADER) SIMPSON ABJUAL (ABUGG), 31. MOND, 3° MACHOR (EMPED 1") 32. CAU, 3° MACHOR (EXTEND TO FOOTING -HIGH MIND ONLY) 4. POST BASE, HOOD FOUNDATION, (2) SIMPSON CSIG STREAP AT POSTS, EXTEND 12° ONTO EACH POST (JPPER AND LOWER) OR TO GIRDER.

FRAMING NOTE: ALL DIMENSIONAL LUMBER

ON THIS SHEET MAY BE SPF #2 OR SYP #2, UNLESS SPECIFICALLY NOTED OTHERWISE.

NOTE: EQUIVALENT POST CAP AND BASE ACCEPTABLE.

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PROJECT # 23-1286

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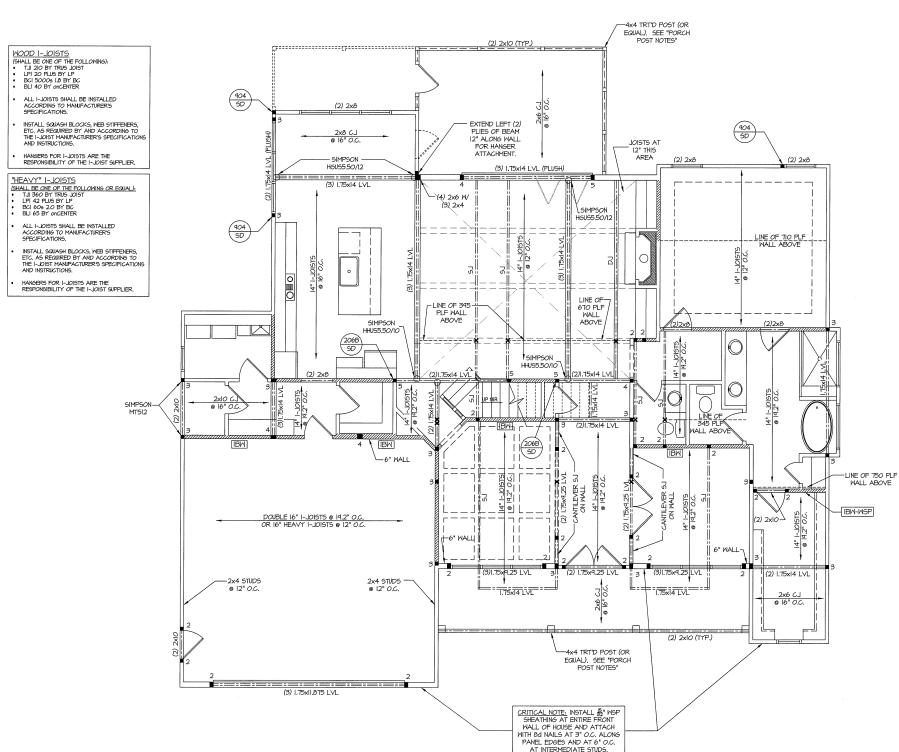
INC. DESIGNS,

DOUGLAS CONTRACTING

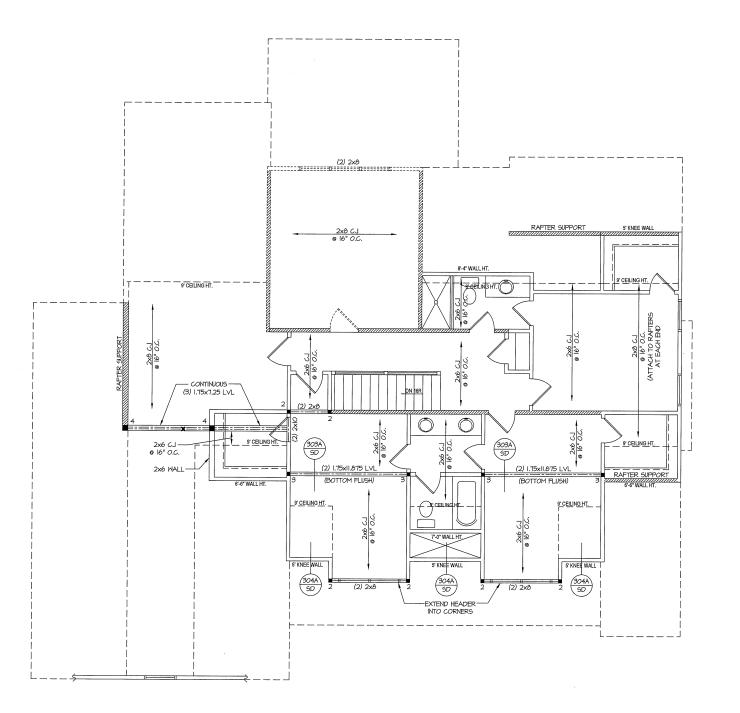
Cotton တ် Lot

FIRST FLOOR STRUCTURAL PLAN

SCALE: 1/4"=1'-0" REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES



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- MSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE, BLOCK AT ROOF PER SECTION REQUID.45 AND ATTACH BRACED WALLS PER CODE, MSP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ALONG CONTINUOUS BAND OR THE MSP SHEATHING MAY BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL BOSES, (MINIMM 12\* BEYOND FLOOR BREAK) OR OTHER APPROVED METHOD.
- (OR EQUIV)

  "SUPPER ELOORS, ATTACH BASE OF KING STUD MITH A SIMPSON

  6520 OR CSHP20 STRAP DONN ACROSS THE BAND AND DOINN TO A

  STUD BELLOW OR HEADER BELOW, EXTEND STRAP T" NIN A LONG EAC

  STUD (OR HEADER) AND ATTACH EACH BUY W (7) 8d NAILS,
- INTERIOR BRACED WALL-MOOD STRUCTURAL PANEL, MOTED AS "IBELEGE" ON PLANS), ATTACH ONE SIDE MITH X", MYES MERCHENING MITH AD NAIL STA A 67/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT THE SUPPORTS), INSTALL BLOCKING AT ALL PANEL EDGES, ATTACH GE OVER MEP AS REQUIRED, ATTACH OPPOSITIES IDENTIFIED WITH A 1"MIT, OF AG COOLER NAILS OR "6 SCHENG" OF "1" OC ALONG THE EDGES AND AT INTERNEDIATE SUPPORTS.

## HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" MALL) OR (3)2x6 (6" MALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- FRAMING NOTE: ALL DIMENSIONAL LUMBER ON THIS SHEET MAY BE SPF #2 OR SYP #2, UNLESS SPECIFICALLY NOTED OTHERWISE.

FRAMING NOTES NC (2018 NCRC): Wind: 115-120 mph

- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP; CS-MSP, NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE FLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING RECOURSED BY SECTION REQUIO OF THE CODE. SEE NOTES BELOW FOR DETAILLS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING.
- EXTERIOR MALL SHEATHING: MALLS SHALL BE BRACED BY SHEATHING MALLS ON ALL STORIES WITH MOOD STRUCTURAL PANEL SHEATHING MEP) (EXPOSER E: 1/36): PEOPOSIRE C: 1/36): POSOSIRE C: 1/36): POSOSIRE C: 1/36): PANEL SHALL BE ATTACHED WITH 8d NAILS AT A 6 1/12" NAILING PATTERN (6" OC AT CAT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
- "HD" = HOLDOWN, HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS)
  SHALL BE AN 800 POIND CAPACITY ASSEMBLY AS NOTED ON PLANS,
  SEE DETAILS FOR HD ASSEMBLY,
  ""GRAND/FIRST FLOOR, USE "HD HOLD-DOWN DETAIL" ON SD SHEET
  (OR EQUIV.)
- INTERIOR BRACED MALL: (NOTED AS "19½1" ON PLANS) ATTACH 1/2" GYPSIM BOARD (63) ON EACH SIDE OF MALL WITH A MIN, OF 5d COOLER NAILS OR \$6 SCREWS 6 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS,
- INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS

  - CHEANGE.

    THE NIMBER SHOWN AT BEAM AND HEADER SHPRORTS INDICATES THE NIMBER OF SUPPORTS INDICATES THE NIMBER OF SUPPORTS INDICATED IN STUD FOACET OR COLLENT. THE NIMBER OF KING STUDS AT EACH BID OF HEADERS IN BESTEROIR WALLS SHALL BY HEADERS IN BESTEROIR WALLS SHALL BY ACCORDING TO THEY NOT INTICATE SHOWS OR AS BELOW FER NEXT COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-4-2020. UP 10 3 SPAM, (1) KING STUDS OVER 8" UP TO 6"SPAM, (2) KING STUDS OVER 6" UP TO 12"SPAM, (3) KING STUDS OVER 9" UP TO 12"SPAM, (3) KING STUDS OVER 12" UP TO 15"SPAM, (5) KING STUDS OVER 12" UP TO 15"SPAM, (5) KING STUDS

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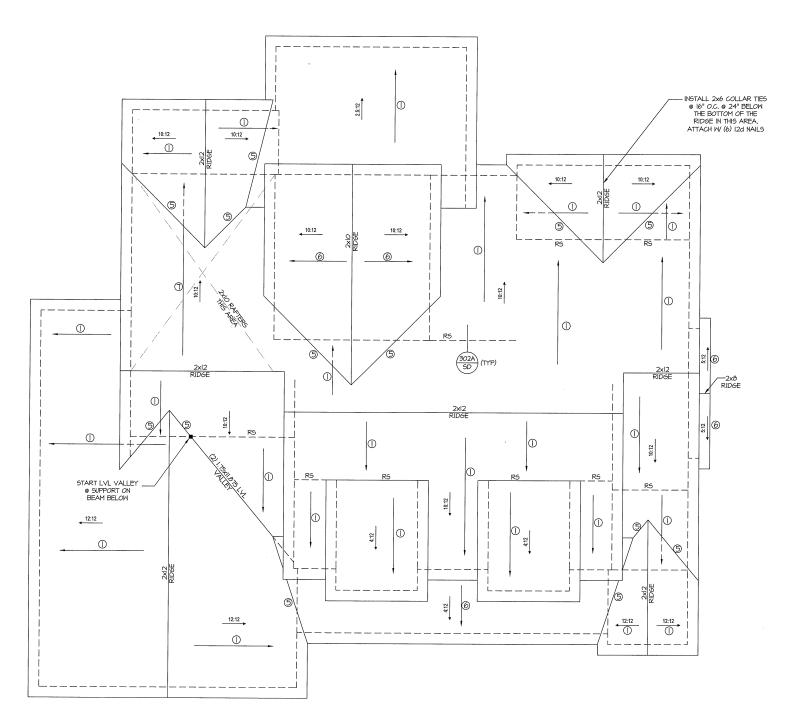
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Southern 3716

# DESIGNS, INC. K&A HOME

J. DOUGLAS CONTRACTING Cotton Farm  $\infty$ Lot





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**ROOF FRAMING NOTES:** 

NC (2018 NCRC): Wind: 115-120 mph

- 1) 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
- (2) 2xIO OR I.75xII.675 LVL HIP. (2) 2xIO HIP5 MAY BE SPLICED WITH A MIN. 6'-O" OVERLAP AT CENTER
- (2) 2x10 OR 1.75x9.25 LVL VALLEY, DO NOT SPLICE
- (4) I.75xII.875 LVL OR (2)I.75x9.25 LVL VALLEY (5) FALSE FRAME VALLEY ON 2xIO FLAT PLATE
- (6) 2x6 RAFTERS @ 16" O.C. W 2x8 RIDGE, UNO. (1) 2x10 RAFTERS @ 16" O.C. W 2x12 RIDGE, UNO.
- EXTEND RIDGE 12" BEYOND INTERSECTION

- EXITED KINDEL 2 BELOWD INTERSECTION

  "SR" = SINGLE RAFTER

  "DR" = DOUBLE RAFTER

  "RE" = ROPE SUPPORT

  "#" = (3) TUD OR 444 POST FOR ROOF SUPPORT (USE

  2X6 STUDS OR 6X6 POST FOR SUPPORT OVER 10'-0" IN

  WEIGHT!
- AND STUDY OR OWN POST THE SET THE STUDY OF THE CLIPS.

  ATTACH VALITED RAFTERS WITH HURRICANE CLIPS.

  SIMPSON "H-25A" OR EQUIVALENT. TIES TO BE INSTALLED

  ON THE OUTSIDE FACE OF FRAMING.

  INSTALL RAFTER TIES AND COLLAR TIES PER SECTION

  R8023.1 OF THE 2018 NC RESIDENTIAL CODE.

FRAMING NOTE: ALL DIMENSIONAL LUMBER ON THIS SHEET MAY BE SPF #2 OR SYP #2, UNLESS SPECIFICALLY NOTED OTHERWISE.

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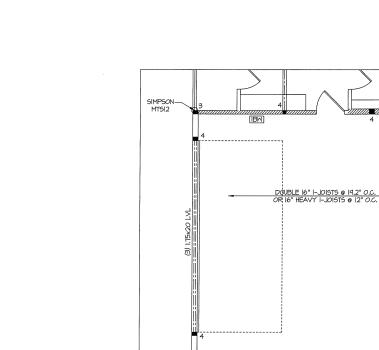
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DESIGNS, INC. K&A HOME

J. DOUGLAS CONTRACTING Cotton Farm Lot 8,

ROOF STRUCTURAL PLAN





FIRST FLOOR STRUCTURAL PLAN SCALE: 1/4"=1'-0"

IBW

2x4 STVDS -⊕ I2" O.C.

18'-0 1/4" SOLID FILLED MASONRY ON A 30"x30"x10" CONC. FTG. 1'-1 3/4" 4" CONG, SLAB (TABLE R402.2) W/ FIBERMESH OR WIREMESH ON 6 MIL VAPOR RETARDER (AS REQUIRED) ON BASE COURSE (RS06.2.2). SEE R506.2.1 FOR FILL REQUIREMENTS. SOLID FILLED MASONRY ON A 30"x30"x10" CONC. FTG. 8" DEEP (MIN.) CONC. FTG. 24'-4"

> FOUNDATION STRUCTURAL PLAN SCALE: 1/4"=1'-0"

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SIDE LOAD GARAGE PLANS

S-5

Lot 8,

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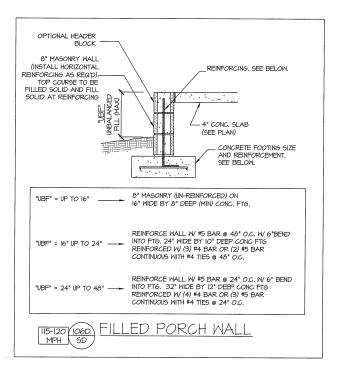
Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will voil Southern Engineers liability.

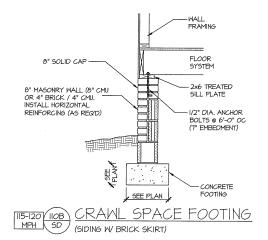
Seal is valid for projects permitted one year from date of seal.

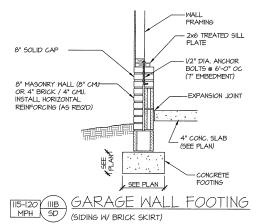
Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

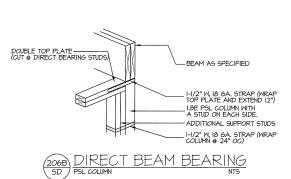
DESIGNS, INC. K&A HOME

J. DOUGLAS CONTRACTING Cotton Farm

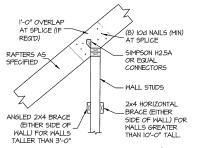




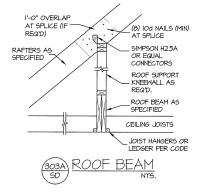


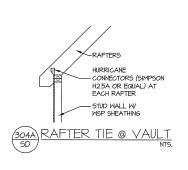


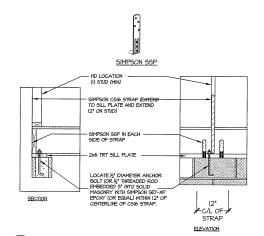






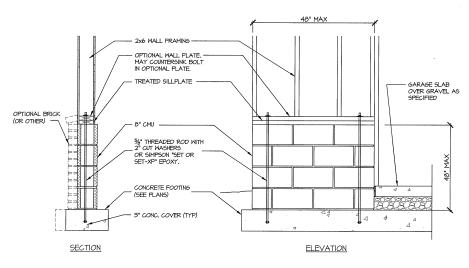






BRACED WALL END CONDITION " HD" HOLD-DOWN DETAIL

NOTE: SIMPSON DTT-IZ IS ACCEPTABLE ALTERNATE NOTE: ALTERNATE HD HOLD-DOWN DEVICES OR SYSTEMS MAY BE USED TO MEET THE CODE REQUIRED 800 LB CAPACITY IN LIEU OF THE ABOVE DETAIL.



GARAGE 'WING WALL' REINFORCING PER IRC FIGURE R602.10.4.3

### STRUCTURAL NOTES NC (2018 NCRC): Wind: 115-120 mph

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. HOSINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM, ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE ADDROBLATE DIRECTION OF THE PROVIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS SPECIFICALLY STATED.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2018 NC RESIDENTIAL CODE, PLUS ALL LOCAL CODES AND RESULATIONS, THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND MILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUIREDES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION NORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FALLURE TO CARRY OUT THE CONSTRUCTION NORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT, ALL MEMBERS SHALL BE FRAMED ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION) ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, IO PSF, L/360) SLEEPING ROOMS: (30 PSF, IO PSF, L/360)

- ATTIC WITH PERMANENT STAIR: (40 PSF, 10 PSF, L/360)
  ATTIC WITHOUT PERMANENT STAIR: (20 PSF, 10 PSF, L/360)
  ATTIC WITHOUT STORAGE: (10 PSF, 10 PSF, L/240)
- STAIRS: (40 PSF, IO PSF, L/360)
- DECKS AND EXTERIOR BALCONIES: (40 PSF, 10 PSF, L/360)
  PASSENGER VEHICLE GARAGES: (50 PSF, 10 PSF, L/360)
  SNOW: (20 PSF)
- WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- 6. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF CONCRETE SHALL HAVE A MINIMUM 25 DAT STRENGTH OF \$000 PSI AND A MAXIMUM SUBMY OF STRENGTH HAVE 1/4" DEEP CONTROL JOINTS SANCUT IN SLAB ON A +-10'-0" x +-10'-0" GRID)
- ALLOMABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADDIGUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.
- 8. ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO), ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) =
- L.V.L. SHALL BE LAMINATED VENEER LIMBER: Fb=2600 PSI, Fv=265 PSI, E=19xI0 PSI.
   P.S.L. SHALL BE PARALLEL STRAND LIMBER: Fb=2400 PSI, Fv=400 PSI, E=2.0xI0 PSI.
   L.S.L. SHALL BE LAMINATED STRAND LIMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55xI0 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS
- IO. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURES SPECIFICATIONS, ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- II. ALL STRUCTURAL STEEL SHALL BE ASTM A-36, STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH, PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO FACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER X 4" LONG), LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM ASOO.
- 12. REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR
- 13. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF I/2" DIAMETER BOLTS (ASTM A325) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH FND.
- 14. BRICK LINTELS (WHEN REQUIRED) SHALL BE 3 1/2'x3 1/2'x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4'x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0". SEE PLANS FOR SPANS OVER 9'-0". SEE ALSO SECTION RT03.8.3 LINTELS.

PROJECT # 23-1286

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DOUGLAS CONTRACTING Farm Cotton တ်