

NORTH CAROLINA 40' SERIES PLAN 240.2539

SCALE NOTE

BOX IS I" SQ. THEN SCALE IS 1/4" = 1'-0"

F BOX IS 1/2" SQ. THEN SCALE IS 1/8" = 1'-0"

FIBER CEMENT

FIXED GLASS

FRENCH DOOR

FLOOR MATERIAL

FUEL GAS

FLOOR FLOOR LINE FLUORESCENT

FOOTING

GAR. DISP. GARBAGE DISPOSAL

FLR. FLR. LINE

FR. DR

PLATE

PAIR

RADIUS

RE-SAWN

ROOM

P.T.D.F.

R.A.G.

REF.

RE/S

PLYW00D

PRESSURE TREATED DOUGLAS FIR

RETURN AIR GRILL

REFRIGERATOR

SHEET INDEX

PLAN #240.2539

- SLAB INTERFACE PLAN 'A'
 PARTIAL SLAB INTERFACE PLAN 'B', 'C', & 'D'
 CRAWL SPACE PLAN 'A'
- TIAL CRAWL SPACE PLAN 'B', 'C' & 'D'
- ROOF PLAN, FRONT & REAR ELEVATIONS 'A'
 LEFT & RIGHT ELEVATIONS 'A'
 PARTIAL FIRST FLOOR PLAN, FRONT ELEVATION AND PARTIAL LEFT
 ELEVATION 'A' AT CAPAL' SPACE
 FRONT ELEVATION 'A' AT OPTIONAL 9'-O" PLATE AT SLAB & CRAWL SPACE

- PARTIAL FIRST & SECOND FLOOR PLANS B'
 ROOF PLAN, FRONT & REAR ELEVATIONS B'
 LEFT & RIGHT ELEVATIONS B'
 PARTIAL FIRST FLOOR PLAN, FRONT ELEVATION AND PARTIAL LEFT
- ELEVATIONS 'B' AT CRAWL SPACE FRONT ELEVATION 'B' AT OPTIONAL 9'-0" PLATE AT SLAB & CRAWL SPACE
- PARTIAL FIRST & SECOND FLOOR PLANS 'C'
 ROOF PLAN, FRONT & REAR ELEVATIONS 'C'
 LEFT & RIGHT ELEVATIONS 'C'
 PARTIAL FIRST FLOOR PLAN, FRONT ELEVATION AND PARTIAL LEFT
 ELEVATIONS 'C' AT CRANL SPACE
 FRONT ELEVATION 'C' AT OPTIONAL 9'-0" PLATE AT SLAB & CRANL SPACE

- PARTIAL FIRST & SECOND FLOOR PLANS 'D'
 ROOF PLAN, FRONT & REAR ELEVATIONS 'D'
 LEFT & RIGHT ELEVATIONS 'D'
 PARTIAL FIRST FLOOR PLAN, FRONT ELEVATION AND PARTIAL LEFT
 ELEVATION 'C' AT CAPAL SPACE
 FRONT ELEVATION 'C' AT OPTIONAL 9'-O" PLATE AT SLAB & CRANL SPACE
- INTERIOR ELEVATIONS
- SECTIONS SECTIONS CRAWL SPACE

- PARTIAL FLOOR PLAN, ELEVATIONS, CRAWL SPACE PLAN 'A/B/C/D' AT 12'x12' DECK PARTIAL FLOOR PLAN, ELEVATIONS, CRAWL SPACE PLAN 'A/B/C/D' AT 24'x12' DECK
- PARTIAL PLANS & ELEVATIONS 'A/B/C/D' W SCREENED DECK WITH OPT. AT CRAWL SPACE OPEN DECK OPT. AT CRAWL SPACE

ALL EXPOSED PORTIONS OF

CONCRETE SLAB FOUNDATIONS

AND PAINTED TO MATCH THE

ARE TO BE 'PARGED (TEXTURED)

- PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W OPT. COVERED PATIO
 PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W OPT. EXTENDED COVERED PATIO
 PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W OPT. COVERED SCREENED PATIO
 PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W OPT. EXTENDED COVERED SCREENED PATIO
 PARTIAL FLOOR PLAN, ROOF, & ELEVATIONS W
 CRAPIL SPACE OPTION AT SCREENED-IN COVERED DECK
- PARTIAL FLOOR PLAN, ROOF, & ELEVATIONS
- © CRAML SPACE OPTION AT SCREEND-IN EXTENDED COVERED DECK PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W OPT, SUNROOM PARTIAL FLOOR PLAN, ROOF & ELEVATIONS & CRAWL SPACE PLAN 'A/B/C/D/' W OPT, SUNROOM





SQUARE FOOTAGE CONSULTANTS CODE INFORMATION ABBREVIATIONS ARCH. SYMBOLS SQUARE FOOTAGE ISSUE DATE: GROUND-FAULT CIRCUIT INTERRUPTER OWNER : APPLICABLE CODES: CODE ABBREVIATIONS A/C ADJ. AIR CONDITIONING SHELF AND POLE PROJECT No.: 1350999:56 PLAN 240.2539 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE, INCLUDING REFERENCED CODES AND STANDARDS N.C.-R. NORTH CAROLINA RESIDENTIAL CODE N.C.-B. NORTH CAROLINA BUILDING CODE ADJUSTABLE GALVANIZED IRON S.C. SOLID CORE BUILDING SECTION DIVISION MGR.: ALTERNATE S.D. SMOKE DETECTOR SECOND FLOOR AREA SECTION INDICATOR N.C.-M. NORTH CAROLINA MECHANICAL CODE AMPERAGE SECTION GYPSUM BOARD 2539 SQ. FT NORTH CAROLINA PLUMBING CODE TOTAL AREA SHEET NUMBER HOLLOW CORE GARAGE AREA CENTER LINE SHEET HDR. HEADER N.C.-E. NORTH CAROLINA ELECTRICAL CABINET SHEATHING NC-EC NORTH CAROLINA ENERGY CODE ELEVATION 'A N.C.-E.C. NORTH CAROLINA ENERGY COT. NE.C. NATIONAL ELECTRICAL CODE I.G.B.O. INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS A.S.T.M. AMERICAN SOCIETY FOR TESTING MATERIALS NF.P.A. NATIONAL FIRE PROTECTION ASSOCIATION ATTIC ACESS NC21062CNP / 11/19/21 / KBA CLG. CLR. CELLING SHWR SHOWER DETAIL REFERENCE HEADER HEIGHT ELEVATION 'B' KB HOME 5230 PACIFIC CONCOURSE DRIVE, SUITE 330 LOS ANGELES, CA 90045 SIM. CLEAR SIMILAR FI EVATION 'C HORIZONTAL SLIDER DETAIL NUMBER CONCRETE SLIDING PROJECT DESCRIPTION: ADD DECK OPTION NC21056NCP · 12/17/21 · CTD CARPET IN LIEU OF SL. GL. SLIDING GLASS PATIO AREA(S) TEL: (424) 294-3700 FAX: (3IO) 297-267I INSULATION DRYER INTERIOR SHEET VINYL AMERICAN NATIONAL STANDARDS 2 STORY SINGLE FAMILY DETACHED RESIDENTIAL PLAN W 4 ELEVATIONS OCCUPANCY: KEYNOTE REFERENCE DECK AREA(S) A.N.S.I. TEMPERED GLASS 144 DECK SQ. FT. D.G. DUAL GLAZED LAVATORY THK. THICK I.E.C.C. 288 DIAMETER LUMINOUS T.O.C. REFERENCE NUMBER UNROOM AREA INTERNATIONAL CODE COUNCIL DIMENSION MEDICINE CABINET TOP TOP OF PLATE DISP. TOP OF SLAB UNDERWRITERS LABORATORIES, INC. MANUFACTURER T.O.S. DISPOSAL CONSTRUCTION TYPE: DIVIDED LIGHT MINIMUM TYPICAL OFFSET REFERENCE MOUNTED UNLESS NOTED OTHERWISE U.N.O. DR. D.S. OR FINISH SURFACE NOT IN CONTRACT V.P. VAPOR PROOF **REVISION LIST** N.I.C. DOWNSPOUT WASHER NOT TO SCALE REVISION REFERENCE .א.ם DISHWASHER **OVER** DATE LOG NUMB MD. ON CENTER MOOD FIFV FI EVATION OPTIONAL 08/16/21 TS. 1.4. 5.3 NG2105INGF MATER HEATER M/H 0.S.A. OUTSIDE AIR EQUAL 11/19/21 TS, 1.2 EXH. EXT. EXHAUST PROPERTY LINE MEATHER PROOF 12/17/21 TS, 7.3 NC21056NCF PLAN: EXTERIOR PUSH BUTTON FORCED AIR UNIT



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION 4506 S. MIAMI BLVD. SUITE 180

DURHAM, NC 27703 TEL: (919) 768-7980 . FAX: (919) 544-2928

2018 NORTH **CAROLINA STATE BUILDING**

CODES

240.2539 SHEET:

GENERAL REQUIREMENTS

- THE MORD 'CONTRACTOR' AS USED HEREIN SHALL MEAN THE GENERAL CONTRACTOR, SUBCONTRACTORS AND ALL PERSONS DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM.
- CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODE REQUIREMENTS:
 - A. ALL LAMS, STATUTES, THE MOST RECENT BUILDING CODES, OF ALL PUBLIC AUTHORITIES, REGULATIONS, AND LAMFUL ORDERS OF ALL PUBLIC AUTHORITIES HAVING JURISDICTION OVER OWNER, CONTRACTOR, ANY SUBCONTRACTOR, THE PROJECT SHE, THE MORK, OTHER PROSECT. THE PROJECT SHE, THE MORK,
- B. THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING TO SAFETY.
- . THE FAIR HOUSING AMENDMENTS ACT, THE AMERICANS WITH DISA-BILITIES ACT, AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING THERETO.
- 3. CONTRACTOR SHALL CAREFULLY STUDY AND REVIEW THE CONSTRUCTION DOCUMENTS AND INFORMATION FURNISHED BY OWNER, AND SHALL PROMPTLY REPORT IN WRITING TO OWNERS REPRESENTATIVE ANY ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONSTRUCTION DOCU-MENTS OR INCONSISTENCIES WITH APPLICABLE CODE REQUIREMENTS OBSERVED BY THE CONTRACTOR.
- 4. IF CONTRACTOR PERFORMS WORK WHICH HE KNOWS OR SHOULD KNOW IS CONTRACT TO APPLICABLE CODE REQUIREMENTS, WITHOUT THE AGREEMENT OF OWNER, CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH WORK AND SHALL BEAR THE RESULTANT LOSSES, INCLUDING, WITHOUT LIMITATION, THE COSTS OF CORRECTING DETECTIVE WORK.
- CONTRACTOR SHALL PROVIDE CERTIFICATES OF INSURANCE ACCEPTABLE TO OWNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS, AND CAREFULLY COMPARE WITH THE CONSTRUCTION DOCUMENTS SUCH FIELD MEASUREMENTS, CONDITIONS, AND OTHER INFORMATION KNOWN TO CONTRACTOR BEFORE COMMENCING THE MORK. ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED AT ANY TIME SHALL BE PROMPTLY REPORTED IN MINING TO THE OWNER.
- CONTRACTOR SHALL PROMPTLY NOTIFY OWNER'S REPRESENTATIVE IF CONTRACTOR BECOMES AWARE DURING THE PERFORMANCE OF THE WORK THAT THE CONSTRUCTION DOCUMENTS ARE NOT IN COM-PLIANCE WITH APPLICABLE CODE REQUIREMENTS.
- BY SUBMITTAL OF BID, CONTRACTOR WARRANTS TO OWNER THAT ALL MATERIALS AND EQUIPMENT TO BE FURNISHED ARE NEW UNLESS NOTED OTHERWISE AND ALL WORK WILL BE OF GOOD QUALITY AND FREE FROM FAULTS AND DEFECTS.
- 9. SUB-CONTRACTORS SHALL INSURE THAT ALL MORK IS DONE IN A PROFESSIONAL WORKMANLIKE MANNER BY SKILLED MECHANICS AND SHALL REPLACE ANY MATERIALS OR ITEMS DAMAGED BY SUB-CONTRACTORS PERFORMANCE. SUB-CONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND SUPPLIERS HARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND SUPPLIERS FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHERS WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK. ALL SUB-CONTRACTOR WORKMANSHIP SHALL BE OF GUALITY TO PASS INSPECTIONS BY LOCAL AUTHORITIES, LENDING INSTITUTIONS, ARCHITECT OR BUILDER. ANY ONE OR ALL OF THE ABOVE MENTIONED INSPECTORS MAY INSPECT WORKMANSHIP AT ANY TIME, AND CORRECTIONS NEEDED TO ENHANCE THE GUALITY OF BUILDING WILL BE DONE IMPEDIATELY. EACH SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LETE BY OTHER SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LETE BY OTHER SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LETE BY OTHER SUB-CONTRACTOR. BUILDER WILL DETERMINE HOW SOON AFTER SUB-CONTRACT ARRECTED SIDLEDER WILL DETERMINE HOW SOON AFTER SUB-CONTRACTOR COMPLETES EACH PHASE OF HIS WORK
- IO. APPROVAL BY THE BUILDING INSPECTOR DOES NOT MEAN APPROVAL OR ALLONABLE FAILURE TO COMPLY WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE ARCHITECT OR ENGINEER FOR INTERPRETATION OR CLARIFICATION.
- ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED UNDER THESE PLANS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY OWNER UNLESS STIPULATED OTHERWISE.
- 2. ALL TRADE NAMES AND BRAND NAMES CONTAINED HEREIN ESTABLISH QUALITY STANDARDS. SUBSTITUTIONS ARE PERMITTED, WITH PRIOR APPROVAL BY THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL SUBMIT FOR THE ARCHITECT'S AND BUILDER'S APPROVAL ALL MATERIALS OR EQUIPMENT WHICH IS CONSIDERED "OR EQUAL" TO THAT SPECIFIED.
- IB. CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ON ANY OR ALL SHEETS MAY BE SUBJECT TO REVIEW. THIS REVIEW MAY RESULT IN CHANGES WHICH MAY BE MADE TO THE PLANS PRIOR TO THE ISSUANCE OF THE FINAL CONSTRUCTION SET WHICH WILL CONTAIN NO "BID SET" DESIGNATIONS. CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ARE NOT TO BE CONSTRUED AS BEING THE COMPLETED OR FINAL DRAWINGS AND THEY SHOULD NOT IN ANY WAY BE USED AS SUCH.
- ALL STANDARD NOTES CONTAINED HEREIN ARE TYPICAL UNLESS NOTED OTHERWISE.
- TYPICAL DETAILS AND SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.
- SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL CONFORM TO SIMILIAR WORK ON THE PROJECT.
- SEE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR PITS, TRENCHES, ROOF OPENINGS, DEPRESSIONS, ETC. NOT SHOWN ON THE OTHER DRAWINGS.
- 18. THE CONSTRUCTION DOCUMENTS AND ALL COPIES THEREOF FURNISHED TO CONTRACTOR ARE THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE USED AN OTHER WORK.

SITE WORK

- I. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., AND BURIED ARTIFACTS SUCH AS INDIAN OR DINOSAUR BONES. IF ANY SUCH ITEMS ARE FOUND THE ARCHITECT, CIVIL ENGINEER, AND SOILS ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY PROTECT ADJACENT PROPERTIES.
- 3. REFER TO THE SOILS REPORT AS PREPARED BY THE GEOTECHNICAL ENGINEER
- 4. REFER TO CIVIL ENGINEER'S CURRENT GRADING AND PLOT PLANS.

SITE WORK (continued)

- REFER TO THE LANDSCAPE ARCHITECT'S CURRENT GRADING PLAN AND CONSTRUCTION DOCUMENTS.
- ALL FOOTINGS SHALL REST ON FIRM NATURAL SOIL OR APPROVED COMPACTED FILL. REFER TO GEOTECHNICAL REPORT.
- EXCAVATIONS FOR FOOTINGS SHALL BE MADE TO THE MIDTH,
 LENGTH, AND DEPTH REQUIRED AND FINISHED MITH LEVEL BOTTOMS.
- 8. EXCAVATIONS SHALL BE KEPT FREE OF STANDING WATER.
- WHERE EXCAVATIONS ARE MADE TO A DEPTH GREATER THAN INDICATED, SUCH ADDITIONAL DEPTH SHALL BE FILLED WITH CONCRETE AS SPECIFIED FOR FOOTINGS.
- FILL MATERIALS SHALL BE FREE FROM DEBRIS, VEGETABLE MATTER AND OTHER FOREIGN SUBSTANCES.
- II. ALL FINISH GRADES TO DRAIN AWAY FROM THE BUILDING FOOTINGS.
- 12. THERE SHALL BE NO ON-SITE WATER RETENTION.
- 3. THERE SHALL BE NO DRAINAGE TO ADJACENT PROPERTY.
- 4. FOR ONSITE CONTSRUCTION, PLANS TO COMPLY WITH NECESSARY INSPECTIONS APPROVED BY THE BUILDING OFFICIAL.
- IB. THE REQUIREMENTS IN THESE NOTES ARE THE MINIMUM THAT SHALL BE MET, REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE REQUIREMENTS SHOWN HERE SHALL BE MET.

CONCRETE

- REFER TO STRUCTURAL ENGINEERING CALCULATIONS AND SOILS REPORT FOR THE PERFORMANCE REQUIREMENTS FOR CONCRETE FOLIADATIONS
- CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE COMPRESSIVE STRENGTH AS PRESCRIBED IN THE N.C.-R, AS MELL AS SATISFY THE DURABILITY CRITERIA OF THE N.C.-R
- MIXING OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318, SECTION 5.8.
- 4. THE DEPOSITING OF CONCRETE SHALL COMPLY WITH THE PROVISIONS ACI 318, SECTION 5.10.
- THE CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318, SECTION 5.II.
- ALL FORM WORK SHALL BE DESIGNED, CONSTRUCTED, UTILIZED, AND REMOVED.
- CONDUIT, PIPES AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN THE LIMITATIONS OF ACI 318, SECTION 6.3, ARE PERMITTED TO BE EMBEDDED IN CONCRETE WITH APPROVAL OF THE REGISTERED DESIGN PROFESSIONAL.
- CONSTRUCTION JOINTS INCLUDING THEIR LOCATION SHALL COMPLY WITH THE PROVISIONS OF ACI 318, SECTION 6.4.
- ALL STEEL REINFORCING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE N.C.-R
- IO. TOP OF CONCRETE SLABS TO BE A MINIMUM 4" W/ MASONRY VENEER 6" ELSEWHERE (6" H.J.D.) ABOVE FINISH GRADE.
- FOUNDATION WIDTHS, DEPTHS, AND REINFORCING, AS SHOWN ON PLANS, ARE SUPERCEDED BY ANY LOCAL CODES OR ORDINANCES WHICH REQUIRE INCREASES OF THE SAME.
- 12. ALL REINFORCEMENT, CONDUIT, OUTLET BOXES, ANCHORS, HANGERS, SLEEVES BOLTS OR OTHER ENBEDDED NATERIALS AND ITEMS MUST BE SECURED AND APPROPRIATELY FASTENED IN THEIR PROPER LOCATIONS PRIOR TO THE PLACEMENT OF CONCRETE. SUB-CONTRACTOR SHALL VERIFY INSTALLATION OF HOLD-DOWNS, ANCHOR BOLTS, PA STRAPS, AND OTHER ANCHORAGE MATERIAL AND ITEMS FRIOR TO PLACEMENT OF CONCRETE.
- 13. POST-TENSION SLABS, IF APPLICABLE:
- A. POINT AND LINE LOADS FROM STRUCTURE ABOVE TO BE PROVIDED TO POST-TENSION ENGINEER PRIOR TO POST-TENSION DESIGN.
- B. ANCHOR BOLTS AND OTHER HARDWARE TO BE SHOWN ON POST-TENSION PLANS TO AVOID MIS-LOCATION OF HARDWARE AND POSSIBLE FIELD FIXES WHICH MAY CUT TENDONS.

MASONRY

- ALL MASONRY DESIGN SHALL FOLLOW THE REQUIREMENTS OF THE CURRENT ADOPTED CODES.
- ANCHORED MASONRY VENEER SHALL COMPLY WITH THE PROVISIONS OF N.C.-R. AND SECTIONS 6.I AND 6.2 OF ACI 530/ASCE 57/MS 402.
- STONE VENEER UNITS NOT EXCEEDING 5 INCHES IN THICKNESS SHALL BE ANCHORED DIRECTLY TO MASONRY, CONCRETE OR TO STUD CONSTRUCTION BY ONE OF THE APPROVED METHODS LISTED IN THE N.C.-R.
- 4. MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL COMPLY WITH ASTM C 270. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE WITH THE N.C.-R AND SHALL MEET THE PROPORTION SPECIFICATIONS
- GROUT SHALL CONSIST OF FIBER CEMENT MATERIAL AND AGGREGATE IN ACCORDANCE NITH ASTM C 416 AND THE PROPORTION SPECIFICATIONS PER THE N.C.-R
- AGGREGATES FOR MORTAR AND GROUT SHALL BE NATURAL SAND AND ROCK CONFORMING TO A.S.T.M. C-144-04 (MASONRY MORTAR) AND C-404-071 (GROUT).
- . CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO A.S.T.M. C 150
- 8. ALL BRICK SHALL CONFORM TO A.S.T.M. C 216, GRADE MW.
- UNLESS SPECIFICALLY SHOWN OTHERWISE ALL BRICK SHALL BE LAID IN A RUNNING BOND PATTERN.
- IO. ANCHORS, TIES AND WIRE FABRIC SHALL CONFORM TO N.C.-R
- ANCHOR TIES AND WIRE FABRIC FOR USE IN MASONRY WALL CONSTRUCTION SHALL CONFORM TO THE N.C.-R

METALS

- REFER TO STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL, METAL AND REINFORCING STEEL SPECIFICATIONS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO AISC/CRED
- 3. ANCHOR RODS SHALL BE SET ACCURATELY TO THE PATTERN AND DIMENSIONS CALLED FOR ON THE PLANS. THE PROTRUSION OF THE THREADED ENDS THROUGH THE CONNECTED MATERIAL SHALL BE SUFFICIENT TO FLULY ENGAGE THE THREADS OF THE NITS, BUT SHALL NOT BE GREATER THAN THE LENGTH OF THE THREADS ON THE BOLTS
- 4. FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED MOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILCON BRONZE OR COPPER VERIETY ACCEPTABLE FASTENERS FER CHEMICALS USED IN PRESSURE PRESERVITIVELY TREATED MOOD W. N.C.-R. FASTENINGS FOR MOOD FOUNDATIONS SHALL BE AS REQUIRED IN AFA PA TECHNICAL REPORT NO. T.

MOOD & FRAMING

UMBER

- THE DESIGN AND CONSTRUCTION OF CONVENTIONAL LIGHT-FRAME WOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE N.C.-R
- CONSTRUCTION, PROJECTIONS, OPENINGS AND PENETRATIONS OF EXTERIOR WALLS OF DWELLINGS AND ACCESSORY BUILDINGS SHALL COMPLY WITH TABLE RSO2J.
- ALL LUMBER SHALL MEET THE STANDARDS OF QUALITY AS STATED IN THE N.C.-R
- LUMBER AND PLYWOOD REQUIRED TO BE PRESSURE PRESERVATIVELY TREATED IN ACCORDANCE WITH THE N.C.-R. AND SHALL BEAR THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING AND INSPECTION OVER THE QUALITY OF THE PRODUCT AND THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPILES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARD COMMITTEE TREATED WOOD PROGRAM.
- 5. ALL LUMBER SIZES NOTED AND SPECIFIED ON PLANS ARE NOMINAL SIZES UNLESS SPECIFICALLY INDICATED AS NET SIZE.

GLUE LAMINATED LUMBER

- REFER TO THE STRUCTURAL ENGINEER'S CURRENT NOTES, CALCULATIONS, AND SPECIFICATIONS.
- GLUED LAMINATED TIMBERS SHALL BE MANUFACTURED AND IDENTIFIED AS REQUIRED IN AITC AIGO. I AND ASTM D 3737.

PROTECTION AGAINST DECAY & TERMITE

- I. IN AREAS SUBJECT TO DECAY DAMAGE AS ESTABLISHED BY THE N.C.-R.
 THE FOLLOWING LOCATIONS SHALL REQUIRE THE USE OF NATURALLY
 DURABLE WOOD OF WOOD THAT IS PRESERVATIVE TREATED
 IN ACCORDANCE WITH A WAR UI FOR THE SPECIES, PRODUCT, PRESERVATIVE
 AND END USE, PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AMPA UI
- WOOD JOISTS OR THE BOTTOM OF WOOD FLOOR WHEN CLOSER THAN 18 INCHES, OR NOOD GIRDERS WHEN CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRANL SPACES OR UNEXCAYATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION.
- ALL EXTERIOR SILLS &PLATES THAT REST ON CONCRETE OR MASONRY 5. EXTERIOR FOUNDATION WALLS.
- SILLS AND SLEEPERS ON A CONCRETE OR MASONRY, UNLESS THE SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND IS SEPARATED FROM THE GROUND BY AN APPROVED IMPERVIOUS MOISTURE BARRIER.
- THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 0.5 INCH ON TOPS, SIDES AND ENDS.
- MOOD SIDING AND SHEATHING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6 INCHES FROM THE GROUND.
- MOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOFS THAT ARE EXPOSED TO THE WEATHER, SUCH AS CONCRETE OR MASONRY SLABS, INLESS SEPARATED FROM SUCH FLOORS OR ROOFS BY ANIMPERVIOUS MOISTURE BARRIER.
- 7. WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED 2. DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING 9. STRIPS OR FRAMING MEMBERS.
- ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POSTS, GUARDRAILS, PICKETS, STEPS AND FLOOR STRUCTURE, COVERINGS THAT MOULD PREVENT MOISTURE OR WATER ACCUMILATION ON THE SURFACE OR AT JOINTS BETWEEN MEMBERS ARE ALLOWED.
- IN AREAS SUBJECT TO DAMAGE FROM TERMITES METHODS OF PROTECTION SHALL BE ONE OF THE METHODS LISTED IN THE N.C.-R
- UNDER-FLOOR AREAS SHALL BE VENTILATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R

MOOD & FRAMING (continued)

SHEATHING

- WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE N.C.-R
- ROOF SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND MITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- . ROOF SHEATHING SHALL BE IN ACCORDANCE WITH THE N.C.-R
- FLOOR SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- 5. STRUCTURAL FLOOR SHEATHING SHALL COMPLY WITH THE PROVISIONS OF THE N.C.-R
- . REFER TO THE STRUCTURAL ENGINEER'S CURRENT SPECIFICATIONS, CALCULATIONS, AND PLANS FOR REQUIRED STRENGTH, GRADE, AND THICKNESS FOR PLYMOOD FLOOR SHEATHING PANELS AND FOR DIAPHRAGM NAILING AND ADHESIVE REQUIREMENTS.
- ALL VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER, AND BE FASTENED TO, COMMON STUDS, HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER, AND BE FASTENED TO, COMMON BLOCKING OF A MINIMUM OF I 1/2 INCH THICKNESS.
- WHERE APPLICABLE, REFER TO THE SHEAR WALL SCHEDULE FOR REQUIRED STRENGTH, GRADE, AND THICKNESS OF PLYMOOD SHEAR PANELS AND FOR REQUIRED SHEAR WALL NAILING SCHEDULE.
- 9. IN ONE- AND TWO-FAMILY DIVELLING CONSTRUCTION USING HARD BOARD OR ALUMINUM AS A SOFFIT MATERIAL, THE SOFFIT MATERIAL SHALL BE SECURELY ATTACHED TO FRAMING MEMBERS AND USE AN UNDERLAYMENT MATERIAL OF EITHER FIRE RETARDANT TREATED WOOD, 23/32 INCH WOOD SHEATHING OR 5/8 INCH SYDSYM BOARD, VENTING REQUIREMENTS AFFLY TO BOTH SOFFIT AND UNDERLAYMENT AND SHALL BE PER SECTION ROOF OF THE NORTH CAROLINA RESIDENTIAL CODE. WHERE THE PROPERTY LINE IS ID FEET OR MORE FROM THE BUILDING FACE, THE PROVISIONS OF THIS CODE SECTION DO NOT APPLY.

FLOOR FRAMING

- ALL FLOOR JOISTS SHALL BE DESIGNED I-JOIST WOOD FLOOR TRUSSES.
 REFER TO MANUFACTURER FOR ALL LAYOUTS AND CALCULATIONS.
- REFER TO THE STRUCTURAL ENGINEER'S CURRENT PLANS & CALCULATIONS FOR SIZE, SPACING, AND ANCHORAGE OF ALL FLOOR JOISTS, SIZE, LOCATION, AND ANCHORAGE OF ALL FLOOR BEAMS AND HEADERS; AND ALL RELATED FRAMING ISSUES.

ROOF FRAMING

- ROOF FRAMING SHALL BE BY PRE-MANUFACTURED ROOF TRUSSES SPACED AT 24 INCHES ON CENTER UNLESS NOTED OTHERWISE.
- WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R
- THE MANUFACTURER SHALL SUPPLY TO THE ARCHITECT AND BUILDER CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL OF DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARING), VOLUME CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION.
- . THE BRACING OF WOOD TRUSSES SHALL COMPLY TO THEIR APPROPRIATE ENGINEERED DESIGN. PER THE N.C.-R
- ITRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A REGISTERED DESIGN PROFESSIONAL, ALTERATIONS RESULTING IN THE ADDITION OF LOAD (E.S. HYAC EQUIPMENT, WATER HEATER) THAT EXCEEDS THE DESIGN LOAD FOR THE TRUSSES SHALL NOT BE PERMITTED MITHOUT WRITTEN VERFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.
- ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHEREIN THE PROJECT IS TO BE BUILT.
- MANUFACTURER IS TO SECURE BUILDING DEPARTMENT APPROVAL OF CALCULATIONS AND SHOP DRAWINGS PRIOR TO FABRICATION.

MALL FRAMING

- THE SIZE, HEIGHT, AND SPACING OF STUDS SHALL BE IN ACCORDANCE WITH THE N.C.-R
- . STUDS SHALL BE PLACED WITH THEIR WIDE DIMENSION PERPENDICULAR TO THE WALL.
- NOT LESS THAN THREE STUDS SHALL BE INSTALLED AT EACH CORNER OF AN EXTERIOR WALL.
- 4. WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS MITH BEARING PARTITIONS, END JOINTS IN TOP PLATES SHALL BE OFFSET AT LEAST 24 INCHES. JOINTS NEED NOT OCCUR OVER STUDS. PLATES SHALL BE NOT LESS THAN 2-INCHES NOMINAL THICKNESS AND HAVE A MIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS, SEE
- WHERE JOISTS, TRUSSES OR RAFTERS ARE SPACED MORE THAN 16 INCHES ON CENTER AND THE BEARING STUDS BELOW ARE SPACED 24 INCHES ON CENTER, SUCH NEMBERS SHALL BEAR WITHIN 5 INCHES OF THE STUDS BENEATH. SEE EXCEPTIONS.
- 6. STUDS SHALL HAVE FULL BEARING ON NOMINAL 2 BY OR LARGER PLATE OR SILL HAVING A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS.
- 7. INTERIOR NONBEARING WALLS SHALL BE PERMITTED TO BE CONSTRUCTED MITH 2-INCH-BY-3-INCH STUDS SPACED 24 INCHES ON CENTER OR, WHEN NOT A PART OF A BRACED MALL LINE, 2-INCH-BY-4-STUDD SPACED 16 INCHES ON CENTER. INTERIOR NONBEARING WALLS SHALL BE CAPPED WITH AT LEAST A SINGLE TOP PLATE. INTERIOR NONBEARING WALL SHALL BE FIREDLOCKED IN ACCORDANCE WITH THE NC-R.

MOOD & FRAMING (continued)

- 8. DRILLING AND NOTHCING OF STUDS SHALL BE IN ACCORDANCE WITH THE
 - I. NOTHCING, ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE OUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS MIDTH, STUDS IN NONDEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40 PERCENT OF A SINGLE STUD WIDTH, NOTCHING OF BEARING STUDS SHALL BE ON ONE EDGE ONLY AND NOT TO EXCEED ONE-FOURTH THE HEIGHT OF THE STUD, NOTCHING SHALL NOT OCCUR IN THE BOTTOM OR TOP 6 INCHES OF BEARING STUDS.
 - DRILLING, ANY STUD MAY BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO MORE THAN 60 PERCENT OF THE STUD MIDTH, THE EDGE OF THE HOLE IS NO MORE THAN 5/8" INCH TO THE EDGE OF THE STUD, AND THE HOLE SHALL NOT BE CLOSER THAN 6 INCHES FROM AN ADJACENT HOLE OR NOTCH. HOLES NOT EXCEEDING 3/4 INCH DIAMETER CAN BE AS CLOSE AS I I/2 INCHES ON CENTER SPACING, STUDS LOCATED IN EXTERIOR MALLS OR BEARING PARTITIONS DRILLED OVER 40 PERCENT AND UP TO 60 PERCENT SHALL ALSO BE DOUBLED WITH NO MORE THAN TWO SUCCESSIVE DOUBLED STUDS BORED.
 - CUTTING AND NOTCHING OF STUDS SHALL BE PERMITTED TO BE INCREASED TO 65 PERCENT OF THE WIDTH OF THE STUD IN EXTERIOR AND INTERIOR WALLS AND EXARING PARTITIONS, PROVIDED THAT ONE OF THE FOLLOWING CONDITIONS ARE MET:

 (a) THE WALL SECTION IS REINFORCED WITH 1/2-INCH EXTERIOR GRADE PLYWOOD OR EQUIVALENT REINFORCEMENT ON THE NOTCHED SIDE OF THE WALL. PLYWOOD, IF USED, SHALL REACH FROM THE PLOOR TO CEILING AND AT LEAST ONE STUD PIRTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.

 (b) THE EXTERIOR MALLS OF A KITCHEN MAY BE REINFORCED BY PLACING 1/2-INCH PLYWOOD OR EQUIVALENT REINFORCEMENT ON THE NOTCHED SIDE OF THE WALL. PLYWOOD, IF USED, SHALL REACH FROM THE FLOOR TO COUNTER-TOP HEIGHT AND AT LEAST ONE STUD FIRTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED SIDE OF THE SECTION THAT HAS BEEN NOTCHED SIDE OF THE WALL. PLYWOOD, IF USED, SHALL REACH FROM THE FLOOR TO COUNTER-TOP HEIGHT AND AT LEAST ONE STUD FIRTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.
- 9. WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTIALY IN AN EXTERIOR OR INTERIOR LOAD-BEARING WALL, NECESSITATION CUTTING, ROBLLING OR NOTCHING OF THE TOP PLATE B MORE HAM SO PERCENT OF ITS MIDTH A GALYANIZED METAL TIE OF NOT LESS THAN 0.054 INCH THICK AND I 1/2" INCHES MIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING MITH NOT LESS THAN EIGHT IOD NAILS HAVING A MINIMUM LENGTH OF I 1/2 INCHES (38 MM) AT EACH SIDE OR EQUIVALENT. THE METAL TIE MUST EXTEND A MINIMUM OF 6 INCHES PAST THE OPENING.
- IO. HEADERS SHALL MEET THE REQUIREMENTS OF THE N.C.-R
- II. PROVIDE LATERAL BRACING PER THE N.C.-R.
- IS. FOUNDATION CRIPPLE WALLS SHALL MEET THE REQUIREMENTS OF THE N.C.-R. CODE
- 14. WOOD STUD WALLS SHALL BE BRACED AS REQUIRED BY THE N.C.-R
- 15. INLESS COVERED BY INTERIOR OR EXTERIOR WALL COVERINGS OR SHEATHING MEETING THE MINIMA REQUIREMENTS OF THIS CODE, ALL STUD PARTITIONS OR WALLS MITH STUDS HAVING A HEIGHT-TO-LEAST THICKNESS RATIO EXCEEDING SO SHALL HAVE BRIDGING NOT LESS THAN 2 INCHES IN THICKNESS AND OF THE SAME WIDTH AS THE STUDS FITTED SHIGHT AND NAILED THERETO TO PROVIDE ADEQUATE LATERAL SUPPORT.

FIRE BLOCKS AND DRAFT STOPS

- FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND A ROOF SPACE, FIREBLOCKING SHALL BE PROVIDED IN MOOD-FRAME CONSTRUCTION IN THE LOCATIONS SPECIFIED IN THE N.C.-R
- 2. FIRE BLOCKING SHALL CONSIST OF 2 INCHES NOMINAL LUMBER, OR TWO THICKNESSES OF I-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS, OR ONE THICKNESS OF 29/82-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 29/92-INCH WOOD STRUCTURAL PANELS OR ONE THICKNESS OF 3/4-INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEBOARD, I/2-INCH GYPSOM BOARD, OR I/4-INCH CEMENT-BASED WILL BOARD.
- BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE SHALL BE PERMITTED AS AN ACCEPTABLE FIRE BLOCK.
- 4. BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE NITH THE IO FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROYS OF STUDS OR STAGGERED STUDS, LOOSE FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK WILESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE IT'S ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASSES.
- 5. WHEN THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR/CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS, WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES.

CEILING IS SUSPENDED UNDER THE FLOOR FRAMING

- FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS.
- HANDRAIL AND GUARDRAIL

 I. GUARDRAIL OF 36" HIGH MIN. SHALL BE PROVIDED WHERE FINISHED GRADE
 OR FLOOR BELOM RAISED AREA EXCEEDS 30".
- HANDRAIL AT STAIRS SHALL BE PROVIDED WHEN 4 OR MORE STAIR RISERS ARE REQUIRED.





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD.

SUITE 180

DURHAM, NC 27703

TEL: (919) 768-7988

FAX: (919) 472-0582

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CAROLINA STATE
BUILDING
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MCP

DIVISION MGR.:

REVISIONS:

PLAN: 240.2539 SHEET: GN1

spec. level 1
RALEIGH DURHAM
40' SERIES

THERMAL & MOISTURE PROTECTION

- PROVIDE ALL FLASHING, COUNTER-FLASHING, BITUTHENE, MEMBRANE WATERPROOFING, SHEET METAL, CAULKING, SEALANTS, ELASTOMERIC WALKING SURFACES, AND RAIN GUITTERS AND/OR DIVERTERS WHERE REQUIRED, TO MAKE WORK COMPLETELY WATERPROOF.
- "CORROSION RESISTANCE" SHALL MEAN THE ABILITY OF A MATERIAL TO WITHSTAND DETERIORATION OF IT'S SURFACE OR IT'S PROPERTIES WHEN EXPOSED TO IT'S ENVIRONMENT.
- PROVIDE A MINIMUM 2 INCH DROP FROM FINISHED INTERIOR FLOOR ELEVATION TO THE HIGHEST FLOOR ELEVATION OF ANY ADJOINING DECK OR BALCONY.
- ELASTOMERIC OR MEMBRANE DECK COATINGS SHALL BE INSTALLED FER MANUFACTURERS SPECIFICATIONS AT DECKS AND BALCONIES. COLOR, FINSH, AND DETAILING SHALL BE APPROVED BY OWNER/ BUILDER AND ARCHITECT.
- UNLESS DESIGNED TO DRAIN OVER DECK EDGES, DRAINS AND OVER-FLOMS OF ADEQUATE SIZE SHALL BE INSTALLED AT THE LOW POINTS OF THE DECK OR BALCONY.
- FOUNDATION WALLS WHERE THE OUTSIDE GRADE IS HIGHER THAN THE INSIDE GRADE SHALL BE WATER-PROOFED AND DAMPPROOFED IN ACCORDANCE WITH THE N.C.-R
- PARAPET MALLS SHALL BE PROPERLY COPED MITH NONCOMBUSTIBLE, MEATHERPROOF MATERIALS OF A MIDTH NO LESS THAN THE THICKNESS OF THE PARAPET MALL. PARAPET COPING SHALL EXTEND 2" MINIMUM DOWN THE FACES OF THE PARAPET.

FLASHING

- ASTM C 1167.

 AS ALLED AT ALL OF THE LOCATIONS STATED IN N.C.-R.
- 2. AT ALL WINDOW AND DOOR OPENINGS USE FORTIFIBER WATER-RESISTIVE BARRIERS, I.C.C. ESR-1027, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, OR APPROVED EQUAL.
- ALL BEAMS, OUTLOOKERS, CORBELS, ETC. PROJECTED THROUGH EXTERIOR WALLS OR PENETRATING EXTERIOR FINISHES SHALL BE FLASHED WITH A MINIMUM O.019-INCH (NO. 26 SHEET METAL GAGE) CORROSION-RESISTANT METAL AND CAULKED.
- ALL SHEET METAL WORK SHALL BE PERFORMED IN ACCORDANCE MITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONING COMTRACTORS NATIONAL ASSOCIATION (S.M.A.C.N.A.), THE ARCHITECTURAL SHEET METAL MANUAL, AND SEALANT, WATERPROPING AND RESTORATION INSTITUTES (S.M.R.I.) GUIDE "SEALANTS: THE PROFESSIONAL'S GUIDE".
- SHEET METAL SHALL BE STEEL SHEET, HOT-DIPPED, TIGHT COATED AND GALVANIZED, CONFORMING TO A S.T.M. A525 AND SHALL BE A NUMBER 24 SHEET METAL GAGE UNLESS OTHERNISE NOTED IN THESE NOTES, PLANS, OR MANUFACTURER'S SPECIFICATIONS.
- SHEET ALUMINUM SHALL CONFORM WITH FEDERAL SPECIFICATIONS QQ-A-359 AND A.S.T.M. B209 ALLOY 3003.
- FABRICATE SHEET METAL WITH FLAT LOCK SEAMS AND SOLDER MITH TYPE AND FLUX RECOMMENDED BY MANUFACTURER. SEAL ALLMINUM SEAMS WITH EPOXY METAL SEAM CEMENT. WHERE REQUIRED FOR STRENGTH, RIVET SEAMS AND JOINTS.
- SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE IN ACCORDANCE WITH APPLICABLE STANDARDS TO PROVIDE A PERMANENTLY WATER-PROOF, MEATHER RESISTANT INSTALLATION.
- ASPHALT SHINGLES SHALL HAVE SELF-SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR D 3462.
- BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL OF MINIMM MOMINAL, O/014-INCH THICKNESS OR MINERAL SURFACE ROLL ROOFING MEIGHING A MINIMM OF TI POUNDS PER IOO SOURABLE FEET. CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMM NOMINAL O/014-INCH THICKNESS
- VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING SHINGLES, VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED AS STATED PER THE N.C.-R
- A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES MIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL OR OF THE SAME MATERIAL AS THE ROOF COVERING. PROVIDE TLASHING AT THE INTERSECTION OF CRICKET OR SADDLE AND
- FLASHING AGAINST A VERTICAL SIDEMALL SHALL BE BY THE STEP-FLASHING METHOD PER NC-R.
- FLASHING AGAINST A VERTICAL FRONT WALL, AS WELL AS SOIL STACK VENT PIPE AND CHIMNEY FLASHING, SHALL BE APPLIED ACCORDING TO ASPHALT SHINGLE MANUFACTURER'S PRINTED INSTRUCTIONS
- AT THE JUNCTURE OF ROOF VERTICAL SURFACES, FLASHING AND COUNTERFLASHING SHALL BE PROVIDED IN ACCORDANCE WITH THE N.C.-R. AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND NHERE OF METAL, SHALL NOT BE LESS THAN O.O.I. INCH (NO. 26 GALVANIZED
- 16. VALLEY FLASHING FOR CONCRETE TILE ROOFS SHALL BE AS REQUIRED

ROOFING MATERIALS

- ROOF COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH THE N.C.-R AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALLATION OF ROOF COVERINGS SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE N.C.-R
- ROOFS AND ROOF COVERINGS SHALL BE OF MATERIALS THAT ARE COMPATIBLE WITH EACH OTHER AND WITH THE BUILDING OR STRUCTURE TO WHICH THE MATERIALS ARE APPLIED.
- ROOF COVERING MATERIALS SHALL CONFORM TO THE APPLICABLE STANDARDS LISTED IN THE N.C.-R IN THE ABSENCE OF APPLICABLE STANDARDS OR WHERE MATERIALS ARE OF QUESTIONABLE SUITABILITY, TESTING BY AN APPROVED TESTING AGENCY SHALL BE REQUIRED BY THE BUILDING OFFICIAL TO DETERMINE THE CHARACTER. QUALITY, AND LIMITATIONS OF APPLICATION OF THE MATERIALS.

THERMAL & MOISTURE PROTECTION (continued)

- ROOF COVERING MATERIALS SHALL BE DELIVERED IN PACKAGES BEARING THE MANUFACTURER'S IDENTIFYING MARKS AND APPROVED TESTING AGENCY LABELS WHEN REQUIRED. BULK SHIPMENTS OF MATERIALS SHALL BE ACCOMPANIED BY THE SAME INFORMATION ISSUED IN THE FORM OF A CERTIFICATE OR ON A BILL OF LADING BY THE MANUFACTURER
- COMPOSITION ROOFING SHINGLES SHALL BE OF ASPHALT OR APPROVED RELATED MATERIALS AND MEET THE REQUIREMED OF THE N.C.-R
- UNDERLAYMENT FOR ASPHALT SHINGLES SHALL CONFORM TO ASTM D 226 TYPE I, ASTM D 4564, TYPE I, OR ASTM D 6757. SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET SHALL COMPLY WITH ASTM D 14TO
- ASPHALT SHINGLES SHALL COMPLY WITH ASTM D 225 OR ASTM D 3462.
- FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED STEEL, STAINLESS STEEL, ALUMINUM, OR COPPER ROOFING NAILS, MINIMUM 12 GAGE SHANK WITH A MINIMUM 3/6 INCH DIAMETER HEAD, ASTM F 1667, OF A LENSTH TO PENETRATE THROUGH THE ROOFING MATERIALS AND A MINIMUM OF 3/4 INCH INTO THE ROOF SHEATHING. PHERE THE ROOF SHEATHING. PHERE THE ROOF SHEATHING. PHERE THE ROOF SHEATHING. PROTECTION OF SHALL PENETRATE THROUGH THE SHEATHING. FASTENERS SHALL COMPLY WITH ASTM F 1667.
- ASPHALT SHINGLES SHALL HAVE THE MINIMUM NUMBER OF FASTENERS REQUIRED BY THE MANUFACTURER. FOR NORMAL APPLICATION, ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF INTH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE PER N.C.-R.
- IO. UNDERLAYMENT FOR ASPHALT SHINGLES SHALL BE APPLIED IN ACCORDANCE WITH THE N.C.-R
- THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF N.C.-R CLAY ROOF TILE SHALL COMLY WITH ASTM C 1167.
- SLOPES OF 2 1/2 UNITS VERTICAL IN I2 UNITS HORIZONTAL (2-1/2:12)
 OR GREATER. FOR ROOF SLOPES FROM 2 1/2 UNITS VERTICAL
 IN 12 UNITS HORIZONTAL (2-1/2:12) TO FOUR UNITS VERTICAL
 IN 12 UNITS HORIZONTAL (4-1/2), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH THE N.C.-R.
- UNDERLAYMENT FOR CLAY AND CONCRETE TILE SHALL CONFORM WITH ASTM D 226, TYPE II; ASTM D 2626 TYPE I; OR ASTM D 6380 CLASS M MINERAL SURFACED ROLL ROOFING.
- 15. CONCRETE ROOF TILE SHALL COMPLY WITH ASTM C 1492.
- NAILS SHALL BE CORROSION-RESISTANT AND NOT LESS THAN II GAGE, NAILE SHALL BE CONNOSION-RESISTANT AND NOT LESS THAN II GASE, SIG-INCH HEAD, AND OF SUFFICIENT LENGTH TO FENETRATE THE DECK A MINIMUM OF SIA-INCH OR THROUGH THE THICKNESS OF THE DECK, WHICHEVER IS LESS. ATTACHING WIRE FOR CLAY OR CONCRETE TILE SHALL NOT BE SHALLER THAN O.OBD-INCH. FERIMETER FASTENING AREAS INCLUDE THREET TILE COURSES BUT NOT LESS THAN 36 INCHES FROM EITHER SIDE OF HIPS OR RIDGES AND EDGES OF EAVES AND GABLE RAKES.
- CLAY AND CONCRETE ROOF TILES SHALL BE FASTENED IN ACCORDANCE WITH THE N.C.-R
- TILE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, BASED ON CLIMATIC CONDITIONS, ROOF SLOPE, UNDERLAYMENT SYSTEM, AND TYPE OF TILE BEINS INSTALLED PER THE N.C.-R.
- THE INSTALLTION OF BUILT-UP ROOFS SHALL COMPLY WITH THE N.C.-R
- 20. BUILT-UP ROOFS SHALL HAVE A DESIGN SLOPE OF A MINIMUM OF ONE-FOUTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE)
 FOR DRAINAGE, EXCEPT FOR COAL-TAR BUILT-UP ROOFS THAT SHALL
 HAVE A DESIGN SLOPE OF A MINIMUM ONE-EIGHTH UNIT VERTICAL IN
 12 UNITS HORIZONTAL (1-PERCENT SLOPE).
- 21. BUILT-UP ROOF COVERING MATERIALS SHALL COMPLY WITH THE STANDARDS PER THE N.C.-R

- SEE FINISHES IN THESE GENERAL NOTES FOR EXTERIOR PLASTER
- MATERIALS USED FOR THE CONSTRUCTION OF EXTERIOR WALLS SHALL COMPLY WITH THE PROVISIONS OF THE N.C.-R
- EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLIDE FLASHING. THE EXTERIOR WALL ENVELOPE SHA BE DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMILATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENEER AS REQUIRED AND A MEANS OF DRAINING WATER THAT ENTERS THE ASSEMBLY TO THE EXTERIOR. PROTECTION ASAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED.
- ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTM D 226 FOR TYPE I FELT OR OTHER APPROVED WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS, SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, MITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2 INCHES, WHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES, THE FELT OR OTHER APPROVED MATERIAL SHALLS END TERMINATED AT PENETRATIOS AND BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE.
- FIBER CEMENT SIDING CONFORMING TO THE REQUIREMENTS OF THE N.C.-R. AND COMPLYING WITH ASTM D 3674 SHALL BE FERMITTED ON EXTERIOR WALLS OF BUILDINGS OF TYPE V CONSTRUCTION LOCATED IN AREA WHERE THE SUITMATE WIND SPEED SPECIFIED DOES NOT EXCEED 100 MILES PER HOUR AND THE BUILDING HEIGHT IS LESS THAN 40 FEET IN EXPOSURE C, INVERE CONSTRUCTION IS LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED EXCEEDS 190 MILES PER HOUR OR BUILDING HEIGHTS ARE IN EXCESS OF 40 FT, DATA INDICATING COMPLIANCE MUST BE SUBMITTED. FIBER CEMENT SIDING SHALL BE SECURED TO BUILDING HOT PROVIDE WEATHER PROTECTION FOR THE EXTERIOR WALLS OF THE BUILDING.
- THE N.C.-R FIBER CEMENT SIDING SHALL BE APPLIED TO CONFORM WITH THE WEATHER-RESISTIVE BARRIER REQUIREMENTS FIBER CEMENT SIDING AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED
- FIBER CEMENT SIDING FASTENERS AND ACCESSORIES SHALL MEET THE
- EXTERIOR WALLS OF WOOD CONSTRUCTION SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE N.C.-R

THERMAL & MOISTURE PROTECTION (continued)

- HARDBOARD SIDING SHALL CONFORM TO THE REQUIREMENTS OF AHA AISS,6 AND, WHERE USED STRUCTURALLY, SHALL BE SO IDENTIFIED BY THE LABEL OF AN APPROVED AGENCY.
- WOOD VENEERS ON EXTERIOR WALLS OF BUILDINGS OF TYPES I, II, III, AND IV CONSTRUCTION SHALL BE NOT LESS THAN I-INCH NOMINAL THICKNESS, 0.438-INCH EXTERIOR HARDBOARD SIDING OR 0.375-INCH EXTERIOR-TYPE WOOD STRUCTURAL PANELS OR PARTICLE-BOARD AND SHALL CONFORM TO THE REQUIREMENTS OF THE N.C.-R
- FIBER-CEMENT LAP SIDING HAVING A MAXIMM MIDTH OF 12 INCHES SHALL COMPLY MITH THE REQUIREMENTS OF ASTM CIIDG, TYPE A, MINIMM GRADE II. LAP SIDING SHALL BE LAPPED A MINIMM OF II/4 INCHES (32 MM) AND LAP SIDING NOT HAVING TONGUE-AND-GROOVE END JOINTS SHALL HAVE THE ENDS SEALED MITH CAULKING, INSTALLED MITH AN H-SECTION JOINT COVER, LOCATED OVER A STRIP OF FLASHING OR SHALL BE DESIGNED TO COMPLY MITH NC-R. LAP SIDING COURSES MAY BE INSTALLED MITH THE FASTENER HEADS EXPOSED OR CONCEALED, ACCORDING TO NC-R OR APPROVED MANUFACTURERS INSTALLATION INSTRUCTIONS.

INSULATION

- INSULATING MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR RETARDERS OR VAPER-PERIVEABLE MEMBRANES, INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROPE-CEILING ASSEMBLIES, ROPE-CEILING ASSEMBLIES, CROPE AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 28 WITH AN ACCOMPANYING SMOKEDEVELOPED INDEX NOT TO EXCEED 280 WHEN YES WELLOWED WITH SMOKED. INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE
- DUCT INSULATION MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS OF THE N.C.-R
- INSULATION AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450. SEE EXCEPTIONS.
- ALL EXPOSED INSULATION MATERIALS INSTALLED ON ATTIC FLOORS SHALL HAVE A CRITICAL RADIANT FLUX OF NOT LESS THAN 0.12 WATT PER SQUARE IT. CENTIMETER PER N.C.-R TESTS FOR CRITIAL RADIANT FLUX SHALL BE MADE IN ACCORDANCE WITH ASTM E 970.
- THE USE OF ABOVE DECK THERMAL INSULATION SHALL BE PERMITTED PROVIDED SUCH INSULATION IS COVERED WITH AN APPROVED ROOF COVERING AND PASSES FM 4450 OR UL 1256 PER N.C.-R.
- CELLULOSE LOOSE-FILL INSULATION SHALL COMPLY WITH CPSC 16 CFR. PARTS 1209 AND 1404. EACH PACKAGE OF SUCH INSULATI MATERIAL SHALL BE CLEARLY LABELED IN ACCORDANCE WITH CPSC 16 CFR, PARTS 1209 AND 1404.
- INSULATION IN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAVIL SPACES OR ATTICS SHALL BE EITHER OF THE BLOWN-IN CELLULOSE TYPE OR FIBERGLASS BATTS OR BLANKET TYPE PER BUILDER'S SPECIFICATIONS.
- THE ENERGY EFFICIENCY REQUIREMENTS INCLUDING I.E.C.C. BUT NOT LIMITED TO INSULATION "R" VALUES, PERCENTAGE OF GLAZING "U" VALUES, ETC. SHALL BE DETERMINED BY THE ADPTED STATE AND LOCAL ENERGY CODE EQUIREMENTS, REFER TO MECHANICAL PLANS FOR SPECIFICATIONS.
- THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED WITH AN AIR BARRIER SYSTEM TO LIMIT INFILTRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. FOR ALL HOMES, WHERE PRESENT, THE FOLLOWING SHALL BE CAULKED, GAKETED, WEATHERSTRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL OR SOLID MATERIAL CONSISTENT WITH APPENDIX E-23 AND E-24 OF THE KC-R.

 I. BLOCKING AND SEALING FLOOR/CEILING SYSTEMS AND INDER KINES MAINS FLOOR/CEILING SYSTEMS AND INDER KNEE WALLS OPEN TO UNCONDITIONED OR EXTERIOR SPACE. 2. CAPPING AND SEALING SHAFTS OR CHASES, INCLUDING FLUE

31. CAPPING AND SEALING SOFFIT OR DROPPED CEILING AREAS

- FRAMED CAVITY WALLS, THE EXTERIOR THERMAL ENVELOPE WALL INSULATION SHALL BE INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT MITH THE BUILDING ENVELOPE AIR BARRIER, INSULATION SHALL BE SUBSTANTIALLY FREE FROM INSTALLATION GAPS, VOIDS, OR COMPRESSION, FOR FRAMED WALLS, THE CAVITY INSULATION SHALL BE ENCLOSED ON ALL SIDES WITH A RIGID MATERIAL OR AN AIR BARRIER MATERIAL, WALL INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN NSTALLED ON EXTERIOR WALLS PRIOR TO BEING COVERED BY SUBSEC CONSTRUCTION, CONSISTENT WITH APPENDIX E-2.3 AND E-2.4 OF NC-R:
- I. TUBS
 2. SHOWERS
 3. STAIRS
 4. FIREPLACE UNITS
 ENCLOSURE OF WALL CAVITY INSULATION ALSO APPLIES TO WALLS THAT
 ADJOIN ATTIC SPACES BY PLACING A RIGID MATERIAL OR AIR BARRIER
 MATERIAL ON THE ATTIC SIDE.

DOORS & WINDOWS

- SEE FLOOR PLANS AND ELEVATIONS FOR SIZES AND TYPES OF DOORS AND MINDOWS AND FOR ANY DIVIDED LITE PATTERNS, COLORS SHALL BE APPROVED BY THE BUILDER AND ARCHITECT.
- OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN I 3/6 INCHES IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS
- NO DOUBLE FRENCH DOORS SHALL BE USED UNLESS THERE IS A SUFFICIENT OVERHANG OR COVERED PATIO COVERING THESE DOORS. NO DOUBLE WOOD FRENCH DOORS SHALL BE USED IN ANY CASE.
- PROVIDE SECURITY HARDWARE FOR ALL DOORS AND WINDOWS MANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.
- ALL AUTOMATIC GARAGE DOOR OPENERS REQUIRE THE INCLUSION OF A PHOTOELECTRIC SENSOR, EDGE SENSOR OR SOME OTHER SIMILAR DEVICE FOR REMOTE OPERATION AND AS A SAFETY PRECAUTION TO PREVENT THE DOOR FROM CLOSING WHEN SOMETHING IS BLOCKING THE PATH OF THE DOOR. SEE MANUFACTURER'S
- ALL MANUFACTURED WINDOWS AND SLIDING GLASS DOORS SHAL MEET THE AIR INFILTRATION STANDARDS OF THE CURRENT AMERICAN
 FIBER CEMENT SIDING SHALL BE APPLIED OVER SHEATHING OR MATERIALS LISTED INATIONAL STANDARDS INSTITUTE A.S.T.M. E283-73 WITH A PRESSURE DIFFERENTIAL OF 1.57 POUNDS PER SQUARE FOOT AND SHALL BE CERTIFIED AND LABELED.
 - BASEMENTS, HABITABLE ATTICS AND EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPENABLE EMERGENCY ESCAPE AND RESCUE OPENING
 - WHERE EMERGENCY ESCAPE AND RESCUE OPENINGS ARE PROVIDED THEY SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE
 - EMERGENCY ESCAPE AND RESCUE OPENINGS WITH A FINISHED SILL HEIGHT BELOW THE ADJACENT GROUND ELEVATION SHALL BE PROVIDED WITH A

DOORS & WINDOWS (continued)

- L EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM T CLEAR OPENING HEIGHT OF 24 INCHES.
- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING WIDTH OF $20\,$ INCHES.
- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM MITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE.
- THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE FEET, MITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES. THE AREA OF THE MINDOW WELL SHALL ALLOW ENERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED PER THE N.C.-R. THE LADDER OR STEPS REQUIRED SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6" INTO THE REQUIRED DIMENSIONS OF THE MINDOW WELL.
- MINDOW WELLS MITH A VERTICAL DEPTH GREATER THAN 44 INCHES SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER OR STEPS USABLE WITH THE WINDOW IN THE FULLY OPEN POSITION.
- BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BE PLACED OVER EMERGENCY ESCAPE AND RESULE OPENINGS, BULKHEAD ENCLOSURES, OR MINDOM WELLS THAT SERVE SUCH OPENINGS, PROVIDED THE MINIMUM NET CLEAR OPENING SIZE COMPLIES WITH THE NC.-R AND SUCH DEVICES SHALL BE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR FORCE FREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENING
- ALL INTERIOR EGRESS DOORS AND A MINIMUM OF ONE EXTERIOR EGRESS DOOR SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH ESPE 19 TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

GLAZING & SAFETY GLAZING

- HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS, NATURAL VENTILATION SHALL BE THROUGH WINDOWS, SKYLIGHTS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE OPENABLE AREA TO THE OUTDOORS SHALL BE NOT LESS THAN 4 PERCENT OF THE FLOOR AREA BEING VENTILATED
- BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR MINDONS OF NOT LESS THAN 3 SQUARE FEET, ONE-HALF OF WHICH MUST BE OPENABLE.
- EXCEPT AS INDICATED, EACH PANE OF GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BE PROVIDED WITH MANUFACTURER'S DESIGNATION SPECIFYING MID APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS AND THE SAFETY GLAZING STANDARD MITH MHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION SHALL BE ACID ETCHED, SANDBLASTED, CERAMIC-FIRED, LASER ETCHED, EMBOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT BEING DESTROYED.
- INDIVIDUAL GLAZED AREAS, INCLUDING GLASS MIRRORS IN HAZARDOUS LOCATIONS SHALL PASS THE TEST REQUIREMENTS OF CPSC 16 CFR, PART 1201. GLAZING SHALL COMPLY WITH CPSC 16.
- THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING:
- GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING,
- SUDING AND BIFOLD DOORS
 SLIDING AND BIFOLD DOORS
 SLAING IN AN INDIVIDUAL PIXED OR OPERABLE PANEL IN THE SAME
 PLANE AS A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN
 24-INCHES OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM
 EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR MALKING
- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:
- 3.1 EXPOSED AREA OF AN INDIVIDUAL PANE LARGER THAN 9 SQUARE
- 3.2 BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR.
- 3.3 TOP EDGE MORE THAN 36 INCHES ABOVE THE FLOOR ONE OR MORE WALKING SURFACES WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING.
- GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOYE A MALKING SURFACE.
- GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS AND SHOWERS, GLAZING ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.
- GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR SMIRMING POOLS, HOT TUBS AND SPAS PHIERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE AND MITHIN 60 INCHES HORIZONTALLY OF THE WATER'S EDGE. THIS ALL APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE
- GLAZING ADJACENT TO STAIRWAYS, LANDINGS AND RAMPS WITHIN 36 INCHES HORIZONTALLY OF A WALKING SURFACE WHEN THE EXPOSED SURFACE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE.
- GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF STAIRWAYS WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN A 60-INCH HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING.
- HINGED SHOWER DOORS SHALL OPEN OUTWARD.
- GLAZING SHALL BE IN ACCORDANCE WITH ENERGY COMPLIANCE CALCULATIONS BASED ON A LOCALLY ADOPTED ENERGY CODE THE MODEL ENERGY CODE OR THE INTERNATIONAL ENERGY
- LOCATED MORE THAN 12 INCHES (1629 MM) ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES (610 MM) ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED, OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENING PASSAGE OF A 4 INCH (IO2 MM) DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES (610 MM) OF THE FINISHED FLOOR

IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS

FINISHES

- GYPSUM WALLBOARD SHALL BE INSTALLED IN CONFORMANCE WITH THE CURRENT EDITION OF THE NORTH CAROLINA RESIDENTIAL CODE AND ALL STATE AND LOCAL BUILDING CODES. THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- MATERIALS. ALL SYPSIM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO A STM C 22, C 475, C 314, C 1002, C 1047, C 1176, C 1176, C 1176, C 1276, C 1366, OR C 1656 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE NC.-R. ADMESIVES FOR THE INSTALLATION OF GYPSIM BOARD SHALL CONFORM TO ASTM C 557.
- GYPSUM BOARD MATERIALS SHALL CONFORM TO THE APPROPRIATE STANDARDS LISTED IN THE N.C.-R WHERE REQUIRED FOR FIRE PROTECTION, CONFORM TO THE N.C.-R
- INTERIOR GYPSUM BOARD SHALL NOT BE INSTALLED WHERE IT IS DIRECTLY EXPOSED TO THE WEATHER OR TO WATER.
- ALL EDGES AND ENDS OF GYPSUM BOARD SHALL OCCUR ON THE FRANNIS MEMBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERPENDICULAR TO THE FRANNIS MEMBERS. EDGES AND ENDS OF GYPSUM BOARD SHALL BE IN MODERATE CONTACT EXCEPT IN CONCEALED SPACES WHERE FIRE-RESISTACE-RATED CONSTRUCTION, SHEAR RESISTANCE, OR DIAPHRAGM ACTION IS NOT REQUIRED, CEALED SPACES WHERE FIRE-RESISTACE-RATED CONSTRUCTION.
- EASTENERS AT THE TOP AND BOTTOM PLATES OF VERTICAL ASSEMBLIES FASIENCES AT THE TOP AND BOTTOM FLATES OF VERTICAL ASSEMBLIES, OR THE EDGES AND ENDS OF HORIZONTAL ASSEMBLIES PERFENDICULAR TO SUPPORTS, AND AT THE MALL LINE MAY BE OMITTED EXCEPT ON SHEAR-RESISTING ELEMENTS OR FIRE- RESISTIVE ASSEMBLIES, FASTENERS SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE PAPER WITH THE FASTENER HEAD.
- GYPSUM BOARD USED AS THE BASE OR BACKER FOR ADHESIVE APPLICATION OF CERAMIC TILE OR OTHER REQUIRED NON-ABSORBENT FINISH MATERIAL SHALL CONFORM TO ASTM C 1946, C 1176 OR C1276, USE OF WATER-RESISTANT GYPSUM BACKING BOARD SHALL BE PERMITTED ON CEILINGS WHERE FRAMING SPACING DOES NOT EXCEED 12 INCHES ON CENTER FOR 1/2-INCH-THICK OR 16 INCHES FOR 5/8-INCH-THICK GYPSUM BOARD. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT. CUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTURER.
- WATER RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMDITY.
- WHEN APPLYING A WATER-BASED TEXTURE MATERIAL. THE MINIMUM SYPSUM BOARD THICKNESS SHALL BE INCREASED FROM 3/6 INCH TO 1/2 INCH FOR I6-INCH ON CENTER FRAMING, AND FROM I/2 INCH TO 5/6 INCH FOR 24-INCH ON CENTER FRAMING OR I/2 INCH SAG-RESISTANT GYPSUM CEILING BOARD SHALL BE USED.

- ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIAL.
- BACKING OR A LATH SHALL PROVIDE SUFFICIENT RIGIDITY TO PERMIT PLASTER APPLICATION.
- WHERE LATH ON VERTICAL SURFACES EXTENDS BETWEEN RAFTERS OR OTHER SIMILAR PROJECTING MEMBERS, SOLID BACKING SHALL BE INSTALLED TO PROVIDE SUPPORT FOR LATH AND ATTACHMENTS. GYPSUM LATH OR GYPSUM BOARD SHALL NOT BE USED, EXCEPT THAT ON HORIZONTAL SUPPORTS OF CEILINGS OR ROOF SOFFITS IT MAY BE USED AS BACKING FOR METAL LATH OR WIRE FABRIC LATH AND CEMENT PLASTER.
- UNLESS SPECIFIED OTHERWISE, ALL WALL COVERINGS SHALL BE SECURELY UNLESS SPECIFIED OF HERWISE, ALL WALL COVENINGS SHALL BE SECURELY FASTENED PER THE N.C.-R. OR NITH OTHER APPROVED ALIMINM, STAINLESS STEEL, ZINC-COATED OR OTHER APPROVED CORROSION-RESISTIVE FASTENERS, WHERE THE BASIC MIND SPEED IS 110 MILES PER HOUR OR HIGHER, THE ATTACHMENT OF WALL COVERINGS SHALL BE DESIGNED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED AND ADJUSTED FOR HEIGHT AND EXPOSURE.
- A MINIMUM O.019-INCH (NO. 26 GALVANIZED SHEET GAGE), CORROSION-RESISTANT MEEP SCREED OR PLASTIC WEEP SCREED, WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 31/2 INCHES SHALL BE PROVIDED AT OR BELOM THE FOUNDATION PLATE LINE ON EXTERIOR STUD MALLS IN ACCORDANCE WITH ASTM C 926. THE WEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAYED AREAS AND SHALL BE OF A TYPE THAT MILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE MEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE MEATTACHMENT FLANGE OF THE MEEP SCREED. A MINIMUM O.OI9-INCH (NO. 26 GALVANIZED SHEET GAGE),

PLASTERING WITH PORTLAND CEMENT PLASTER SHALL BE NOT LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE LATH AND SHALL BE NOT LESS THAN TWO COATS WHEN APPLIED OVER MASONRY, CONCRETE, PRESSURE-PRESERVATIVE TREATED WOOD OR DECAY-RESISTANT WOOD OR GYPSUM BACKING. IF THE PLASTER SURFACE IS COMPLETELY COVERED BY VENEER OR OTHER FACING MATERIAL OR IS COMPLETELY CONCEALED, PLASTER APPLICATION NEED BE ONLY TWO COATS, PROVIDED THE TOTAL THICKNESS IS AS SET FORTH PER THE N.C.-R.

ON WOOD-FRAME CONSTRUCTION WITH AN ON-GRADE FLOOR SLAB SYSTEM, EXTERIOR PLASTER SHALL BE APPLIED TO COVER, BUT NOT EXTEND BELOW LATH, PAPER AND SCREED.

THE PROPORTION OF AGGREGATE TO FIBER CEMENT MATERIALS SHALL BE AS SET FORTH PER THE N.C.-R

- ONLY APPROVED PLASTICITY AGENTS AND APPROVE AMOUNTS THEREOF MAY BE ADDED TO PORTLAND CEMENT. WHEN PLASTIC CEMENT IS USED, NO ADDITIONAL INFO OR PLASTICIZERS SHALL BE ADDED. HYDRATED LIME OR THE EQUIVALENT AMOUNT OF LIME FUTTY USED AS A PLASTICIZER WAY BE ADDED TO CEMENT PLASTER. OR CEMENT AND LIME PLASTER IN AN AMOUNT NOT TO EXCEED THAT
- GYPSUM PLASTER SHALL NOT BE USED ON EXTERIOR SURFACES
- PLASTER COATS SHALL BE PROTECTED FROM FREEZING FOR A PERIOD OF NOT LESS THAN 24 HOURS AFTER SET HAS OCCURRED PLASTER SHALL BE APPLIED WHEN THE AMBIENT TEMPERATURE IS HIGHER THAN 40 DEGREES F (4 DEGREES C), UNLESS PROVISIONS ARE MADE TO KEEP CEMENT PLASTER WORK ABOVE 40 DEGREES (4 DEGREES C), PRIOR TO & DURING APPLICATION AND 48 HOURS
- COLOR AND FINISH TO BE SELECTED AND APPROVED BY OWNER/ BUILDER AND ARCHITECT
- A I-COAT EXTERIOR PLASTER SYSTEM SUCH AS "MAGNA WALL" I.C.C. NO. ER-4776. "EXPO FIBREWALL" I.C.C. NO. ER-4368. OR APPROVED EQUAL MAY BE USED IN LIEU OF A 3-COAT EXTERIOR





01/26/20

NORTH CAROLINA 40' SERIES KB HOME

NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 » FAX: (919) 472-0582

2018 NORTH CAROLINA STATE BUILDING CODES

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MCP

ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.:

REVISIONS:

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MECHANICAL & PLUMBING

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE NITH THE NORTH CAROLINA RESIDENTIAL AND MECHANICAL CODE. INSTALLATIONS OF MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS NOT ADDRESSED BY THIS CODE SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE NORTH CAROLINA RESIDENTIAL AND FUEL GAS CODE.
- CONTRACTOR SHALL DESIGN ENTIRE H.V.A.C. SYSTEM AND SUBMIT DRAWINGS FOR OWNER/BUILDER'S APPROVAL PRIOR TO ORDERIN MATERIALS OR EQUIPMENT.
- WHERE AIR CONDITIONING IS AN OPTIONAL FEATURE, HEATING SYSTEMS MUST BE DESIGNED AND DUCT WORK SIZED TO ACCOMMODATE FUTURE AIR CONDITIONING NEEDS.
- WHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURE SET POINTS AT DIFFERENT TIMES OF THE DAY, THIS THERMOSTAT SHALL INCLUDE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55 DEG. F (19 C) OR UP TO 85 DEG. F (29 C).
- 5. ALL DUCTWORK SHALL CONFORM TO THE REQUIREMENTS OF THE N.C.-R
- COMBUSTION AIR SHALL BE PROVIDED FOR FORCED AIR UNITS IN ACCORDANCE WITH N.C.-R
- CONTRACTOR TO PROVIDE BOOT IN DUCTWORK WHEN OPTIONAL "HONEYWELL" OR "CARRIER" ELECTRONIC AIR CLEANER IS PROVIDED.
- 8. DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DIRELING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE
- EXTERIOR-GRADE INSTALLATIONS. EQUIPMENT AND APPLIANCES INSTALLED ABOVE GRADE LEVEL SHALL BE SUPPORTED ON A SOLID BASE OR APPROVED MATERIAL A MINIMUM OF 2 INCHES THICK.
- IO. UNDER-FLOOR INSTALLATION, SUSPENDED EQUIPMENT SHALL BE A MINIMUM OF 6 INCHES ABOVE THE ADJOINING GRADE.
- CRAWL SPACE SUPPORTS. IN A CRAWL SPACE, A MINIMUM OF 2-INCH THICK SOLID BASE, 2-INCH (SI MM) THICK FORMED CONCRETE, OR STACKED MASONRY UNITS HELD IN PLACE BY MORTAR OR OTHER APPROVED METHOD. THE MATER HEATER SHALL BE SUPPORTED NOT LESS THAN 2
- 12. DRAINAGE, BELOW-GRADE INSTALLATIONS SHALL BE PROVIDED WITH A NATURAL DRAIN OR AN AUTOMATIC LIFT OR SUMP PUMP. FOR PIT REQUIREMENTS REFER TO N.C.-M

VENTING

- IN LIEU OF REQUIRED EXTERIOR OPENINGS FOR NATURAL VENTILATION IN BATHROOMS CONTAINING A BATHTUB, SHOVER OR COMBINATION THEREOF, A MECHANICAL VENTILATION SYSTEM MAY BE PROVIDED. THE MINIMM VENTILATION RATES SHALL BE 50 CPM FOR INTERMITTENT VENTILATION OR 20 CPM FOR CONTINUOUS VENTILATION. VENTILATION AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE FER N.C.-R.
- EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS.
- RANGE HOODS SHALL DISCHARGE TO THE OUTDOORS THROUGH A DUCT.
 THE DUCT SERVING THE HOOD SHALL HAVE A SMOOTH INTERIOR SURFACE,
 SHALL BE AIR TIGHT, SHALL DEE EQUIPPED WITH A BACK-DRAFT DAMMER
 AND SHALL BE INDEPENDENT OF ALL OTHER EXHAUST SYSTEMS. DUCTS
 SERVING RANGE HOODS SHALL NOT TENNINATE IN AN ATTIC OR CRAML
 SPACE OR AREAS INSIDE THE BUILDING, DUCTS SERVING RANGE HOODS
 SHALL BE CONSTRUCTED OF GALVANIZED STEEL, STAINLESS STEEL OR
- MHERE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND WHERE MECHANICAL OR NATURAL VENTILATION IS OTHERWISE PROVIDED, LISTED AND LABELED DUCTLESS RANGE HOODS SHALL NOT BE REQUIRED TO DISCHARGE TO THE OUTDOORS PER N.C.-M
- DUCTS FOR DOMESTIC KITCHEN COOKING APPLIANCES EQUIPPED MITH DOWN DRAFT EXHAUST SYSTEMS SHALL BE PERMITTED TO BE CONSTRUCTED OF SCHEDULE 40 PVC PIPE PROVIDED THAT THINSTALLATION COMPLIES MITH ALL OF THE FOLLOWING PER N.C.-M
- THE DUCT SHALL BE INSTALLED UNDER A CONCRETE SLAB POURED ON GRADE.
- THE UNDERFLOOR TRENCH IN WHICH THE DUCT IS INSTALLED SHALL BE COMPLETELY BACKFILLED WITH SAND OR GRAVEL.
- THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE THE INDOOR CONCRETE FLOOR SURFACE.
- THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE GRADE OUTSIDE THE BUILDING.
- THE PVC DUCTS SHALL BE SOLVENT CEMENTED.
- EXHAUST HOOD SYSTEMS CAPABLE OF EXHAUSTING IN EXCESS OF 400 CFM SHALL BE PROVIDED WITH MAKEUP AIR AT A RATE APPROXIMATELY EQUAL TO THE EXHAUST AIR RATE THAT IS IN EXCESS OF 400 CUBIC FEET PER MINUTE. SUCH MAKEUP AIR SYSTEMS SHALL BE EQUIPPED WITH A MEANS OF CLOSURE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OPERATE SIMULTANEOUSLY WITH THE EXHAUST SYSTEM. DAMPERS SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION
- DOMESTIC WATER HEATERS, UNLESS SPECIFIED OTHERWISE BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, SHALL BE VENTED TO THE OUTSIDE AIR BY A TYPE B' VENT AND COMPLY WITH THE REQUIREMENTS OF THE NC.-M

PLUMBING

- A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED, INSTALLED AND MAIN AINED IN SUCH A MANNER SO AS 10 HEYEN!

 CONTAINATION FROM NONPOTABLE LIQUIDS, SOLIDS OR GASES BEING INTRODUCED INTO THE POTABLE MAITER SUPPLY THROUGH

 CROSS-CONNECTIONS OR ANY OTHER PIPING CONNECTIONS TO THE SYSTEM. BACKFLOW PRE- VENTER APPLICATIONS SHALL CONFORM TO
- 2. THE SUPPLY LINES OR FITTINGS FOR EVERY PLUMBING FIXTURE SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW, PLUMBING FIXTURE FITTINGS SHALL PROVIDE BACKFLOW PROTECTION IN ACCORDANCE WITH ASME All2.18.1.

MECHANICAL & PLUMBING (continued)

- ALL DEVICES, APPLITENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERLIZATION, DISTILLATION, PROCESSINS, COOLINS, OR STORAGE OF ICE OR FOODS, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH PROTECTION AGAINST BACKET, DIVIN AND CONTAMINATION OF THE WATER SUPPLY SYSTEM, WATER PUMPS, FILTERS, SOFTENERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION.
- MATER SERVICE PIPING SHALL BE PROTECTED IN ACCORDANCE WITH N.C.-P SECTIONS AND EXCEPTIONS)
- FIXTURE FITTINGS, FAUCETS AND DIVERTERS SHALL BE CONNECTED TO THE WATER DISTRIBUTION SYSTEM SO THAT HOT WATER CORRESPONDS TO THE LEFT SIDE OF THE FITTINGS.
- DIVERTERS FOR SINK FAUCETS WITH A SECONDARY OUTLET CONSISTING OF A FLEXIBLE HOSE AND SPRAY ASSEMBLY SHALL CONFORM TO ASTM AIL:16.11 M ADDITION TO THE REQUIREMENTS IN N.C.-P
- THE INSTALLATION OF A WATER SERVICE OR WATER DISTRIBUTION PIPE THE INSTALLATION OF A WATER SERVICE OR WATER DISTRIBUTION PIPE SHALL BE PROHIBITED IN SOIL AND GROUND WATER THAT IS CONTAMINATED. GROUND WATER CONDITIONS SHALL BE REQUIRED TO ACERTAIN THE ACCEPTABILITY OF THE WATER SERVICE OR WATER DISTRIBUTION PIPING MATERIAL FOR THE SPECIFIC INSTALLATION. WHERE DETRIMENTAL CONDITIONS EXIST, APPROVED A LITERNATIVE MATERIALS
- MATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C.-PILMBING. ALL MATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF IOO PSI AT 180 DEGREES F.
- PIPE PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT MILL MITHSTAND ANY REACTION FROM THE LIME AND ACID OF CONCRETE, CINDER OR OTHER CORROSIVE MATERIAL SHEATHING OR WRAPPING SHALL ALLOW FOR EXPANSION AND CONTRACTION OF PIPING TO PREVENT ANY RUBBING ACTION. MINIMUM WALL THICKNESS OF MATERIAL SHALL BE 0.025-INCH
- PIPES PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM
- PIPING SHALL BE INSTALLED SO AS TO PREVENT DETRIMENTAL STRAINS AND STRESSES IN THE PIPE. PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT. PIPING SHALL BE INSTALLED TO AVOID STRUCTURAL STRESSES OR STRAINS WITHIN BUILDING COMPONENTS.
- MATER PIPES INSTALLED IN A MALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE MALL INSULATION, IN OTHER CASES, MATER, SOIL, AND PASTE PIPES SHALL NOT DE INSTALLED OUTSIDE OF A BUILDING, IN INCONDITIONED ATTICS, INCONDITIONED UTILLITY ROOMS OR IN ANY OTHER PLACE SUBJECTED TO FREEZING TEMPERATURES UNLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPES FROM FREEZING BY A MINIMAM OF R-65 INSULATION DETERMINED AT 15 DEG. F IN ACCORDANCE WITH ASTM CITT OR HEAT OR BOTH OR BOTH.
 EXTERIOR WATER SUPPLY SYSTEM PIPING SHALL BE INSTALLED NOT
 LESS THAN 6 INCHES BELOW THE FROST LINE AND NOT LESS
 THAN 12 INCHES BELOW GRADE.
- BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C-R.
- BUILDING SEMER PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL INSTALLED AND SHALL CONFORM TO THE RESPECTIVE PIPE STANDARDS OR ONE OF THE STANDARDS LISTED IN
- WHERE WASTE LINE DROPS OCCUR IN A LOCATION WHERE THE SOUND OF A FLUSHED TOILET MAY BE UNDESIRABLE, SUCH AS IN WALLS OR PARTITIONS ADJACENT TO EATING ROOMS, USE CAST IRON PIPING OR SIMILAR APPROVED HARD OR DENSE PIPING TO MITIGATE SOUND.
- CLEANOUTS ON BUILDING SEMERS SHALL BE LOCATED AS SET FORTH IN
- THE MAXIMUM WATER CONSUMPTION FLOW RATES AND QUANTITIES FOR ALL PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH N.C.-R.
- INDIVIDUAL SHOWER AND TUB/SHOWER COMBINATION VALVES SHALL BE EQUIPPED MITH CONTROL VALVES OF THE PRESSURE-BALANCE, THERMOSTATIC-MIXING OR COMBINATION PRESSURE-BALANCE/THERMOSTATIC-MIXING VALVE TYPES WITH A HIGH LIMIT STOP IN ACCORDANCE WITH ASSET IGIG! ASSET AILCOMISCO BIDES IN AND SHALL BE INSTALLED AND ADJISTED PER MANUFACTURE'S INSTRUCTIONS.
- GAS AND ELECTRIC WATER HEATERS HAVING AN IGNITION SOURCE SHALL ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 10 INC ABOVE THE GARAGE FLOOR. REFER TO N.C.-R FOR EXCEPTION.
- MATER HEATERS, (USING SOLID, LIQUID OR GAS FUEL) WITH THE EXCEPTION OF THOSE HAVING DIRECT VENT SYSTEMS, SHALL NOT BE INSTALLED IN BATHROOMS AND BEDROOMS OR IN A CLOSET WITH ACCESS ONLY THROUGH AS BEDROOM OR BATHROOM, HOWEVER, WATER HEATERS OF THE AUTOMATIC STORAGE TYPE MAY BE INSTALLED AS REPLACEMENT IN A BATHROOM, WHEN APPROVED BY THE PLUMBING OFFICIAL, PROVIDED THEY ARE VENTED AND SUPPLIED WITH ADEQUATE COMBUSTION AIR.
- IN SEISMIC DESIGN CATEGORIES DO, DI AND D2 AND TOWNHOUSES IN SEISMIC DESIGN CATEGORY C, WATER HEATERS SHALL BE ANCHORED OR STRAPPED IN THE UPPER ONE-THIND OF THE APPLIANCE TO RESIST A HORIZONTAL FORCE EQUAL TO ONE-THIND OF THE OPERATING PICKIGHT OF THE WATER HEATER, ACTING IN ANY HORIZONTAL DIRECTION, OR IN ACCORDANCE WITH THE APPLIANCE MANUFACTURERS RECOMMENDATIONS.
- 22. APPLIANCES LOCATED IN A GARAGE OR CARPORT SHALL BE PRO-TECTED FROM IMPACT BY A MOVING VEHICLE.
- 23. WHERE WATER HEATERS OR HOT WATER STORAGE TANKS ARE INSTALLED IN.
 REMOTE LOCATIONS SUCH AS SUSPENDED CELLING, ATTICS, ABOVE OCCUPIED
 SPACES, OR INVENTILATED CRAVIL SPACES, A LOCATION WHERE WATER
 LEAKAGE FROM THE TANK WILL CAUSE DAMAGE TO PRIMARY STRUCTURAL
 MEMBERS, THE TANK OR WATER HEATER SHALL BE INSTALLED IN A
 GALVANIZED STEEL PAN HAVING A MINIMM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE.
- WHERE CLOTHES WASHING MACHINES ARE LOCATED ON WOOD FRAMED FLOORS WHERE LEAKAGE WOULD CAUSE DAMAGE, A GALVANIZE STEEL PAN HAVING A MINIMUM THICKNESS OF 24 GAGE, OR OTHER PANS PROVED FOR SUCH USE SHALL BE PROVIDED

MECHANICAL & PLUMBING (continued)

- APPLIANCES AND EQUIPMENT USED FOR HEATING WATER OR STORING HOT WATER SHALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND A SEPARATE TEMPERATURE-RELIEF VALVE OR A COMBINATION PRESSURE-AND-TEMPERATURE RELIEF VALVE, RELIEF VALVE SHALL HAVE A MINIMUM RATED CAPACITY FOR THE EQUIPMENT SERVED AND SHALL CONFORM TO ANSI 221.22. THE RELIEF VALVE SHALL NOT BE USED AS A MEANS OF CONTROLLING THERMAL EXPANSION.
- THE WATER SUPPLY TO A DISHMASHER SHALL BE PROTECTED AGAINST BACKFLON BY AN AIR GAP COMPLYING WITH ASME AII2.13 OR AII2.12 THAT IS INSTALLED INTEGRALLY WITHIN THE MACHINE OR A BACKFLOW PREVENTER IN ACCORDANCE WITH THE NC-R.
- SINK AND DISHWASHER. THE COMBINED DISCHARGE FROM A DISHWASHER AND A ONE- OR TWO-COMPARTMENT SINK, WITH OR WITHOUT A FOOD-WASTE DISPOSER, SHALL BE SERVED BY A TRAP OF NOT LESS THAN 1/2 INCHES (36 MM) IN OUTSIDE DIAMETER. THE DISHWASHER DISCHARGE PIPE OR TUBING SHALL RISE TO THE WIDERSIDE OF THE COUNTER AND SHALL BE SECURELY FASTENED TO THE WIDERSIDE OF THE COUNTER AND SHALL BE SECURELY CONNECTING TO THE WIDERSIDE OF THE SINK RIM OR COUNTER BEFORE CONNECTING TO THE HEAD OF THE FOOD-WASTE DISPOSER OR TO A WYE FITTING IN THE SINK TAILPIECE.

- FACTORY-BUILT FIREPLACES SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING. FACTORY-BUILT FIREPLACES SHALL BE TESTED IN ACCORDANCE WITH U. 127.
- 2. FIREPLACES ARE TO BE PROVIDED WITH AN EXTERIOR AIR SUPPLY

ELECTRICAL

- ALL MATERIALS AND APPLIANCES, INSTALLATION AND CONSTRUCTION METHODS SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE OR CURRENT SAE REQUIREMENTS.
- ALL ELECTRICAL SYSTEMS, CIRCUITS, FIXTURES AND EQUIPMENT SHALL BE GROUNDED IN A MANNER COMPLYING WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL WIRING SHALL BE SO INSTALLED THAT, WHEN COMPLETED, THE SYSTEM WILL BE FREE FROM SHORT CIRCUITS AND FROM GROUNDS OTHER THAN AS REQUIRED OR PERMITTED IN N.E.C. ARTICLE 250.
- ELECTRIC EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORK-
- ALL 125-VOLT, SINGLE-PHASE, IS- AND 20-AMPERE RECEPTACLES INSTALLED IN THE LOCATION'S SPECIFIED BELOW SHALL HAVE ROUND-FAULT CIRCUIT-INTERRIPTER PROTECTION FOR PERSONNEL. THE GROUND-FAULT CIRCUIT-INTERRIPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- A. BATHROOMS.
- B. GARAGES AND ALSO ACCESSORY BUILDINGS THAT HAVE A FLOOR LOCATED AT OR BELON GRADE LEVEL NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS, AND AREAS OF SIMILAR USE.
- CRAWL SPACES. WHERE THE CRAWL SPACE IS AT OR BELOW GRADE LEVEL.
- UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS.
- KITCHENS. WHERE THE RECEPTACLES ARE INSTALLED TO SERVE
- SINKS, WHERE RECEPTACLES ARE INSTALLED WITHIN 6 FT FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK.
- BOAT HOUSES.
- BATHTUBS OR SHOWER STALLS WHERE RECEPTACLES ARE INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL.
- DISHWASHER GFCI PROTECTION IS NOT REQUIRED FOR OUTLETS THAT SUPPLY DISHWASHERS INSTALLED IN DWELLING UNIT
- CRAML SPACE LIGHTING OUTLETS, GFCI PROTECTION SHALL BE PROVIDED FOR LIGHTING OUTLETS NOT EXCEEDING 120 VOLTS INSTALLED IN CRAML SPACES.
- APPLIANCE RECEPTACLE OUTLETS INSTALLED IN A DWELLING UNIT FOR SPECIFIC APPLIANCES, SUCH AS LANDRY EQUIPMENT, SHALL BE INSTALLED WITHIN 6 FEET OF THE INTENDED LOCATION OF THE APPLIANCE.
- IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY DEN, SUNROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DIMELLING UNITS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY MALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLUDING ANY HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLIDING ANY WALL SPACE 2 FEET OR MORE IN WIDTH (INCLUDING SPACE MEASURED AROUND CORNERS) AND IMBROKEN ALONG THE FLOOR FINE BY DOORWAYS AND SIMILAR OPENINGS, FIREPLACES, AND FIXED CABINETS, AND THE WALL SPACE OCCUPIED BY FIXED PANELS IN EXTERIOR WALLS, BIT EXCLIDING SAIDING PANELS IN EXTERIOR WALLS, BIT EXCLIDING PANELS IN EXTERIOR WALLS, BIT EXCLIDING SAIDING PANELS IN EXTERIOR WALLS, THE WALL SPACE AFFORDED BY FIXED ROOM DIVIDERS, SULH AS FREESTANDING BAR-TYPE COUNTERS OR RAILINGS, SHALL BE INCLUDED IN THE 6 FOOT MEASUREMENT.
- IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA OF A DINELLING UNIT, THE TWO OR MORE 20-AMPERE SMALL-APPLIANCE BRANCH CIRCUITS REQUIRED SHALL SERVE A ALL WALL AND FLOOR RECEPTACLE OUTLETS, ALL COUNTERTOP OUTLETS, AND RECEPTACLE OUTLETS FOR REFRIGERATION EQUIPMENT. THE TWO OF MORE SMALL-APPLIANCE BRANCH CIRCUITS SHALL HAVE NO OTHER OUTLETS
- IN KITCHENS, PANTRIES, BREAKFAST ROOMS, DINING ROOMS AND SIMILAR AREAS OF DWELLING UNITS, RECEPTACLE OUTLETS FOR COUNTER SPACES SHALL BE INSTALLED IN ACCORDANCE WITH THE
- (I) A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTER SPACE IZ INCHES OR WIDER. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24 INCHES MEASURED HORIZONTALLY FROM A RECEPTACLE OUTLET IN THAT SPACE.

ELECTRICAL (continued)

- (2) AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH ISLAND COUNTER SPACE NITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER.
- AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH PENINGULAR COUNTER SPACE WITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER. A PENINGULAR COUNTERTOP IS MEASURED FROM CONNECTINE PERPENDICULAR WALL.
- COINTERTOP SPACES SEPARATED BY RANGE TOPS, REFRIGERATORS, OR SINKS SHALL BE CONSIDERED AS SEPARATE COINTERTOP SPACES IN APPLYING THE REQUIREMENTS OF (I), (2), AND (3), ABOVE. IF A RANGE, COINTER-MOINTED COOKING UNIT, OR SINK IS INSTALLED IN AN ISLAND OR PENINSULAR COUNTERTOP AND THE PEPIN OF THE COUNTER BEHIND THE ITEM IS LESS THEN IS NOTHED. IT WILL BE CONSIDERED TO DIVIDE THE COUNTERTOP SPACE INTO TWO SEPARATE CAINTERTOPS SPACE INTO TWO SEPARATE COUNTERTOP SPACES. EACH COUNTERTOP SPACE SHALL COMPLY WITH APPLICABLE REQUIREMENTS.
- (5) RECEPTACLE OUTLETS SHALL BE LOCATED NOT MORE THAN 20 INCHES ABOVE THE COUNTERTOP, RECEPTACLE OUTLETS RENDERED NOT READILY ACCESSIBLE BY APPLIANCE FASTENED IN PLACE, APPLIANCE SARAGES, SINKS, OR RANGETOPS AS COVERED IN 4) ABOVE, OR APPLIANCES OCCUPYING DEDICATED SPACE SHALL NOT BE CONSIDERED AS THESE REQUIRED OUTLETS.
- AT LEAST ONE WALL RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS WITHIN 3 FEET OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED IN WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR BASIN COUNTERTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET NOT MORE
- 12. IN DWELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN AREAS DESIGNATED FOR THE INSTALLATION OF LAUNDRY EQUIPMENT.
- IN EACH ATTACHED GARAGE AND IN EACH DETACHED GARAGE WITH ELECTRIC POWER, THE BRANCH CIRCUIT SUPPLYING THIS ELECTRIC POWER, THE BRANCH CIRCUIT SUPPLITING THIS
 RECEPTACLE(S) SHALL NOT SUPPLY OUTLETS OUTSIDE OF THE
 GARAGE, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED
 IN EACH VEHICLE BAY.
- CABLE- OR RACEWAY-TYPE WIRING METHODS INSTALLED IN A GROOVE. ORBITE OF RECENT THE WALLBOARD, SIDING, PANELING, CARPETING, OR SIMILAR FINISH, SHALL BE PROTECTED BY 1/16 INCH THICK STEEL PLATE, SLEEVE, OR EQUIVALENT OR BY NOT LESS THAN 1-1/4 INCH FREE SPACE FOR THE FULL LENGTH OF THE GROOVE IN WHICH THE CABLE OR RACEWAY
- 15. RECEPTACLES IN DAMP OR WET LOCATIONS.
 - A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED FROM WEATHER OR IN OTHER DAMP LOCATIONS SHALL HAVE AN ENCLOSURE FOR THE RECEPTACLE THAT IS MEATHER/PROOF WHEN THE RECEPTACLE (S COVERED. (ATTACHMENT PLUS CAP NOT INSERTED AND RECEPTACLE COVERS (L.OSED)
 - ALL IS- AND 20- AMPERE, I.25- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS MEATHER PROOF PHIETHER OR NOT THE ATTACHMENT PLUS CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUTY". ALL IS- AND 20- AMPERE, I.25- AND 20-VOLT NONLOCKING RECEPTACLES SHALL BE LISTED WEATHER RESISTANT TYPE.
- I6. LIGHTING EQUIPMENT. NOT LESS THAN 15 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS
- LIGHT FIXTURES WITHIN CLOTHES CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH N.E.C.
- ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNGOOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTIED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. THE ARC-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE
- BUILDINGS SHALL BE PROVIDED WITH APPROVED ADDRESS IDENTIFICATION. THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLACED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
- TAMPER-RESISTANT RECEPTACLES IN DWELLING UNITS IN ALL AREAS.
 ALL NON-LOCKING TYPE I25-VOLT I5-AND 20-AMPERE RECEPTACLES.
 SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS LISTED BELON.
 - RECEPTACLES LOCATED MORE THAN 51 ABOVE THE FLOOR. 2. RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE
 - 3. A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES LOCATED WITHIN DEDICATED SPACE FOR EACH APPLIANCE THAT, IN NORMAL USE, IS NOT EASILY MOVED FROM ONE PLACE TO ANOTHER, AND THAT IS CORD-AND-PLUS CONNECTED.
 - 4. NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS
- DIMMER-CONTROLLED RECEPTACLES. A RECEPTACLE SUPPLYING LIGHTING LOADS SHALL NOT BE CONNECTED TO A DIMMER UNLESS THE PLUS-RECEPTACLE COMBINATION IS A NONSTANDARD CONFIGURATION TYPE THAT IS SPECIFICALLY LISTED AND IDENTIFIED FOR EACH SUCH

SMOKE DETECTORS

- SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S INSTRUCTIONS AND NC-R R314
- ALL SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND THE HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NFPA 12.

HOUSEHOLD FIRE ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NFPA 72 THAT INCLUDE SMOKE ALARMS, OR A COMBINATION OF SMOKE DETECTOR AND AUDIEU NOTIFICATION DEVICE INSTALLED AS REQUIRED BY THE NC-R R914.9 FOR SMOKE ALARMS, SHALL BE PERMITTED. THE HOUSEHOLD FIRE ALARM SYSTEM SHALL PROVIDE THE SAME LEVEL OF SMOKE DETECTION. AND ALARM AS REQUIRED BY THE NG-R FOR SMOKE ALARMS IN THE EVENT THE FIRE ALARM PANEL IS REMOVED OR THE SYSTEM IS NOT CONNECTED TO A CENTRAL STATION

REQUIRED SMOKE DETECTORS SHALL BE LOCATED IN ACCORDANCE WITH THE NC-R R314.3

ELECTRICAL (continued)

CARBON MONOXIDE ALARMS

- CARBON MONOXIDE ALARMS IN DMELLING UNITS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE INMEDIATE VICINITY OF THE BEDROOMS, WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED WITHIN THE BEDROOM.
- SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING MITH UL 2034 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NC-R RSI5 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF INDIVIDUAL CARBON MONOXIDE OR SMOKE ALARMS.

DRYER VENT

THE DRYER DUCT IS REQUIRED TO IDENTIFY THE LENGTH IN ACCORDANCE WITH SECTION MI502.4.5





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 B TEL: (919) 768-7988 B FAX: (919) 472-0582

2018 NORTH CAROLINA STATE BUILDING CODES

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MCP

ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.:

REVISIONS:

240.2539 GN₃



	SQUARE FOOT	AGE	
	PLAN 240.25	39	
FIRST FLOOR AREA	4	1081	SQ. FT.
SECOND FLOOR AR	ŒA	1458	SQ. FT.
TOTAL AREA	•	2539	SQ. FT
GARAGE AREA		423	50. FT.
PORCH AREA(S)			
	ELEVATION 'A'	56	SQ. FT.
	ELEVATION 'B'	58	SQ. FT.
	ELEVATION 'C'	101	SQ. FT.
	ELEVATION 'D'	136	SQ. FT.
PATIO AREA(S)			
	COVERED	100	SQ. FT.
	EXTENDED COVERED	200	SQ. FT.
DECK AREA(S)			
	DECK	144	SQ. FT.
	EXTENDED DECK	288	SQ. FT.
SUNROOM AREA			
	12'x12'	144	SQ. FT.
	PLATE NOTE	3S	2018 N.C-#
	8'-I" PLATE NO	OTES	200 10-1
. WINDOW HEAD		6'-8" U.N.O.	
	INDOM HDR. HEIGHT:	7'-O" U.N.O.	
. ENTRY DOOR	HEIGHT: S DOOR HEIGHT:	6'-8" U.N.O. 6'-8" (TEMP.)	
. INTERIOR SOF	FIT HEIGHT:	7-4" UNO	
TRAY CEILING	DE LIEIGHT.	7" RISE INTO	TRUSS U.N.C
INTERIOR DOC	9'-1" PLATE NO		
	ER HEIGHT ist FL.: ER HEIGHT 2nd FL:	8'-0" U.N.O. 7'-8" U.N.O.	
 4010 WINDOW 	OVER TUB HDR. HGT.:	8'-4" U.N.O.	
 ENTRY DOOR 		6'-8" U.N.O.	
 SLIDING GLAS INTERIOR SOF 	S DOOR HEIGHT:	6'-8" (TEMP.) 8'-0" U.N.O.	
TRAY CEILING		7" RISE INTO	TRUSS U.N.C
INTERIOR DOG	OR HEIGHT:	6'-8" U.N.O.	
	STAIR DATA N	OTES	
			2016 N.C.+F

FIRST FLOOR WITH \$-1" PLATE HEIGHT:

14" DEEP T.J.I. FLOOR JOISTS MITH 3/4" T&6 DECKING.

14 TREADS AT 10" EACH

15 RISERS AT 7-7/16" EACH

FIRST FLOOR WITH 9-1" PLATE HEIGHT: 14" DEEP T.J.I. FLOOR JOISTS WITH 3/4" T&G DECKING.

15 TREADS AT 10" EACH 16 RISERS AT 7-3/4" EACH

GENERAL PLAN NOTES

ALL CEILING HEIGHTS PER SECTION AND ELEVATION PLATE HEIGHTS, U.N.O.

ALL INTERIOR DOORS TO BE HOLLOW CORE I 3/8" THICK, U.N.O. (REFER TO PLAN FOR SIZE).

ALL GARAGE SERVICE DOORS TO BE HOLLOW CORE EXTERIOR GRADE (REFER TO PLAN FOR SIZE).

ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RATED (REFER TO PLAN FOR SIZE).

ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE | 3/4" THICK (REFER TO PLAN FOR SIZE).

ALL FLOOR MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR JAMBS, U.N.O.

OPT. IO'XIO' OPT. IO'x20' PATIO SLAB 40'-0" 28'-II¹/₂" 11'-01" 6'-0¹ 4'-01" 7'-0" STOOP CONCRET 6x3 3050 9H 3060 9H AT 9'-I" PLT. HGT. OPT. A/C PAD 1925년 OPT. 60 1 - 3050 5H | 3060 5H | AT 9'-1" PLT. HGT. OPT. B 7 KITCHEN B FM. SEE SPECS. 8'-0" CLG. OPT. 9'-0" CLG. FMC 3 -NOOK CARPET 8'-0" CLG. OPT. 9'-0" CLG. 9 9 9'-01" 5-32" 1-8" 8 2'33 0PT.60 3050 5H 3060 5H 20'-42" HGT. OPT. 54 <u>.</u>. 27 65 +36" (51 29 OPT. 2868 / A 4.2 60 41 8 8 52 GARAGE CONC. 0PT. 79 / 4'-02" 0PEN 3'-9" STOOF 5'-4¹₂" 65 OPT. | -2030 SH | -2040 SH | AT 9'-1" PLT.= (a) FMC 16'-2<u>|</u>" ATOPT ←67→ 54 57 DEN/OPT.

BDRM 5/OPT HOME OFFICE CARPET 8'-0" CLG. OPT. 9'-0" CLG. 52 52 **↓**77 • +7'-0"/+8'-0" AT OPTI 9'-1" PLTI (TYP.) 41 200 22 F.F. EXTEND 3/4"
BEYOND
SIDE OF HOUSE 76 TO FINISH INTO 6'-8" 13'-4" 40'-0"

FLOOR PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

SINK - GARBAGE DISPOSAL OPTIONAL - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS

DISHMASHER - PROVIDE AIR GAP - VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS

. SLIDE-IN RANGE/OVEN COMBINATION W/ BUILT-IN VENTED HOOD W/LIGHT & FAN. OR MICRO/HOOD COMBO - SEE SPECS

. 30" COOKTOP W BUILT-IN VENTED HOOD W LIGHT & FAN VERIFY WITH MANUFRS' SPECS

5. 94" CLEAR REFRIGERATOR SPACE W OPTIONAL CABINETS ABOVE - OPT. PLUMBING FOR ICEMAKER (RECESSED IN WALL) COMBINATION DOUBLE OVEN OR OVEN MICROMAVE OVEN OR OVEN VERIFY DIMENSIONS MITH MANUFACTURERS' SPECS

BASE CABINETS - REFER TO INTERIOR ELEVATIONS 8. UPPER CABINETS - REFER TO INTERIOR ELEVATIONS

I. ISLAND CABINET - REFER TO INTERIOR ELEVATIONS

IO. MIN. 12" BAR TOP/ BREAKFAST BAR

DESK AREA - REFER TO INTERIOR ELEVATIONS 12. BUILT-IN PANTRY (15" DEEP OR U.N.O.)

13. SINK CABINET(S) - REFER TO INTERIOR ELEVATIONS

14. SINK CABINET W EXTENDED VANITY & KNEE SPACE BELOW REFER TO INTERIOR ELEVATIONS

15. OPT. SINK - REFER TO INTERIOR ELEVATIONS.16. KNEE SPACE - REFER TO INTERIOR ELEVATIONS

PRE-FAB. TUB/SHOWER COMBO W/ FIBERGLASS WAINSCOT TO 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS 18. OVAL TUB - VERIFY DIMENSIONS WITH MANUFR'S SPECS.

19. PRE-FAB, SHOWER PAN W 30" MIN, CLR, INSIDE & WAINSCOT TO 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS

20. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE.

21. TOWEL BAR - PROVIDE 2x SOLID BLK'G IN WALL 22. TOILET PAPER HOLDER - PROVIDE 2x SOLID BLK'G IN WALL

23. RESERVED

25. NASHER & DRYER: - PROVIDE MATER & MASTE FOR MASHER RECESS MASHER CONTROL VALVES IN MALL - VENT DRYER TO OUTSIDE AIR. - ACCOMMODATE APPLIANCES TO BE LOCATED WASHER AT LEFT AND DRYER AT RIGHT.

25. I2" SHELF PER SPECS

26. OPT. LAUNDRY SINK - REFER TO INTERIOR ELEV'S

27. WATER HEATER LOCATION: - FOR GAS - LOCATE ON 18" HIGH-PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN & DRAIN. (REFER TO 15/AD4)

28. R.A.G. LOCATION (SEE HVAC PLAN)

29. MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF VALVE

30. F.A.U. LOCATION (REFER TO DETAIL 88/AD5) 31. RESERVED

32. LISTED FACTORY-BUILT GAS FIRED DEC. APPLIANCE (REF. 80/AD4) - INSTALL PER MFR. SPECS

33. HEARTH TO BE INSTALLED PER FACTORY-BUILT FIREPLACE LISTING

34. GAS APPLIANCE 'B' VENT FROM BELOW

35. LINEN PER SPECS (15" DEEP OR U.N.O.)

36. COAT CLOSET W SHELF & POLE (REFER TO DETAILTS/AD4)

37. WARDROBE W/ SHELF & POLE (REFER TO DETAILT3/AD4)

36, 22"X30" MIN. ATTIC ACCESS 25"X54" PULL DOWN LADDER R.O. ATTIC ACCESS TO BE PROTECTED

39. LINE OF WALL BELOW

40. DUCT CHASE/VOID SPACE - 1/2" GYP. BD. AT CLG. FIRE BLKG

4I. LINE OF FLOOR ABOVE

43. LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL 92/AD5)

44. LINE OF HIP AT OPTIONAL VOLUME CEILING 45. LINE OF RIDGE AT OPTIONAL VOLUME CEILING

46. CEILING BREAK

47. STAIR TREADS & RISERS: - MIN. IO" TREAD & MAX. 7 3/4" RISER - (REFER TO DETAIL 81-82/AD5)

48. MIN. 36" HIGH GUARDWALL (REFER TO DET. 83/AD5 & 85/AD5

49. 34" TO 36" HIGH HANDRAIL (REFER TO DETAIL 83/AD5)

50. A/C PAD LOCATION 50AA/C LINESET LOCATION 51. LOW WALL - REFER TO PLAN FOR HEIGHT

52. 2x6 STUD WALL

53. 2x6 BALLOON FRAMED WALL PER STRUCTURAL 54. DBL. 2x4 WALL PER PLAN
55. INTERIOR SHELF-SEE PLAN FOR HT.

56. MEDIA NICHE 57. FLAT SOFFIT - SEE ELEV. FOR HGT.

58. ARCHED SOFFIT - SEE ELEV. FOR HGT.

59. WINDOW SEAT

60. OPT. DOOR/ WINDOW

61. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.

62. BRICK / STONE VENEER - REFER TO ELEVATIONS VENEER TO COMPLY WITH THE N.C.-R.

63. SECTIONAL GARAGE DOOR PER SPECS

64. MIN. I/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR.

65. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O. 66. OPT. MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL 86/AD5) 67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR ABV

68. P.T. POST W WRAP

69. CONCRETE STOOP: SIZE PER PLAN SLOPE I/4" PER FT. MIN.

70. EGRESS MINDOW 71. PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT.

73. PLUMBING DROP FROM ABOVE

14. ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN 75. WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(5) ON ALL SIDES U.N.O.

76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

77. CONCRETE SLAB. SLOPE I/4" PER FT. MIN. SEE PLAN FOR SIZE.

78. 1/2" PRELIM. GYB. BD. BEHIND TUB/SHOWER (TO MEET STC.)
79. SLOPING LOW WALL 38" ABOVE ADJACENT TREADS

80. 20 MIN. FIRE-RATED DOOR





NORTH CAROLINA 40' SERIES

кв номе NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 . FAX: (919) 472-0582

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2018 NORTH **CAROLINA STATE BUILDING** CODES

ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56

REVISIONS: SEE BELOW

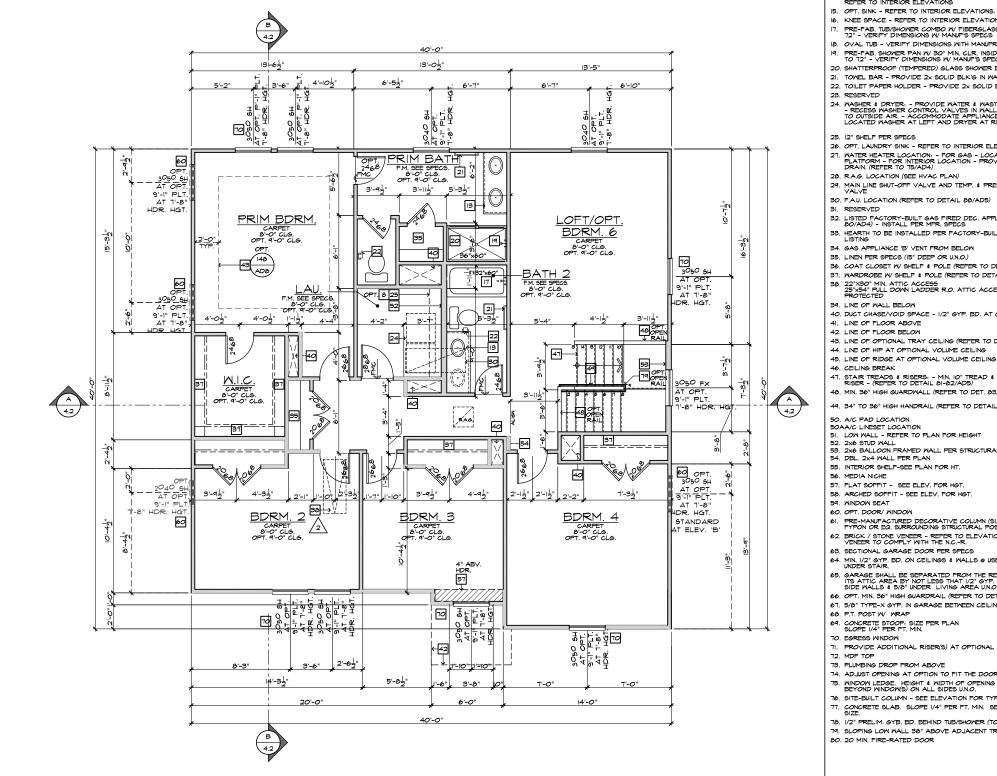
MCP

DIVISION REVISION NC2105ICNP / 08/16/21 / KBA

DIVISION MGR.:

240.2539 HEET:

1.1





64. MIN. I/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR.

65. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O.

FLOOR PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

IO. MIN. 12" BAR TOP/ BREAKFAST BAR

12. BUILT-IN PANTRY (15" DEEP OR U.N.O.)

66. OPT. MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL 86/AD5) 67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR ABV

68. P.T. POST W WRAP 69. CONCRETE STOOP: SIZE PER PLAN SLOPE I/4" PER FT. MIN.

TO. EGRESS WINDOW

71. PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT.

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14. ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN 75. WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(5) ON ALL SIDES U.N.O.

76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

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78. 1/2" PRELIM. GYB. BD. BEHIND TUB/SHOWER (TO MEET STC.)
79. SLOPING LOW WALL 38" ABOVE ADJACENT TREADS

80. 20 MIN. FIRE-RATED DOOR

240.2539 HEET: 1.2

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

INTERIOR KEY

PLATE NOTES 8'-I" PLATE NOTES

9'-1" PLATE NOTES

STAIR DATA NOTES

GENERAL PLAN NOTES

ALL CEILING HEIGHTS PER SECTION AND ELEVATION PLATE HEIGHTS, U.N.O.

ALL INTERIOR DOORS TO BE HOLLOW CORE I 3/8" THICK, U.N.O. (REFER TO PLAN FOR SIZE).

ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE | 3/4" THICK (REFER TO PLAN FOR SIZE).

ALL FLOOR MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR JAMBS, U.N.O.

ALL GARAGE SERVICE DOORS TO BE HOLLOW CORE EXTERIOR GRADE (REFER TO PLAN FOR SIZE). ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RATED (REFER TO PLAN FOR SIZE).

FIRST FLOOR WITH \$-1" PLATE HEIGHT:
14" DEEP T.J.I. FLOOR JOISTS MITH 3/4" T&G DECKING
14 TREADS AT 10" EACH
15 RISERS AT T-7/16" EACH

FIRST FLOOR WITH 9-1" PLATE HEIGHT: 14" DEEP T.J.I. FLOOR JOISTS WITH 3/4" T&G DECKING.

15 TREADS AT 10" EACH 16 RISERS AT 7-3/4" EACH

MINDOW HEADER HEIGHT:
2nd FLOOR WINDOW HDR. HEIGHT:
SLIDING GLASS DOOR HEIGHT:
TRAY CELLING
WITERIOR SOFFIT HEIGHT:
TRAY CELLING
WITERIOR DOOR HEIGHT:

MINDOM HEADER HEIGHT 18 FL;
MINDOM HEADER HEIGHT 2nd FL;
MINDOM HEADER HEIGHT 2nd FL;
ADIO MINDOM OVER TUB HDR, HGT.
ENTRY DOOR HEIGHT;
SILIDING GLASS DOOR HEIGHT;
INTERIOR SOFFIT HEIGHT;
TRAY CELLING;
INTERIOR DOOR HEIGHT;
INTERIOR DOOR HEIGHT;
6-8" (TEMP)
8-0" UNLO.
6-8" UNLO.
6-8" UNLO.
6-8" UNLO.



	SQUARE FOOT	AGE			
	PLAN 240.25	39			
FIRST FLOOR ARE	A	1081	50. FT.		
SECOND FLOOR A	REA	1458	SQ. FT.		
TOTAL AREA	4	2539	SQ. FT		
GARAGE AREA		423	50. FT.		
PORCH AREA(S)					
	ELEVATION 'A'	56	SQ. FT.		
	ELEVATION 'B'	58	SQ. FT.		
	ELEVATION 'C'	101	SQ. FT.		
	ELEVATION 'D'	136	SQ. FT.		
PATIO AREA(S)					
	COVERED	100	SQ. FT.		
	EXTENDED COVERED	200	SQ. FT.		
DECK AREA(S)					
	DECK	144	SQ. FT.		
	EXTENDED DECK	288	SQ. FT.		
SUNROOM AREA					
	12'x12'	144	SQ. FT.		
	PLATE NOTES				
	8'-I" PLATE NO	TES			
 MINDOW HEAD 		6'-8" U.N.O.			
 2nd FLOOR M ENTRY DOOR 	IINDOM HDR. HEIGHT:	7'-0" U.N.O. 6'-8" U.N.O.			
. SLIDING GLAS	S DOOR HEIGHT:	6'-8" (TEMP)			
 INTERIOR SOF TRAY CEILING 	FIT HEIGHT:	7-4" UNO	TRUGG UNG		
INTERIOR DO	OR HEIGHT:	6'-8" U.N.O.	INUSS U.N.C		
	9'-1" PLATE NO	TES			
MINDOW HEAD	ER HEIGHT Ist FL.:	8'-0" U.N.O.			
 WINDOW HEAD 	ER HEIGHT 2nd FL:	7'-8" U.N.O.			
 4010 MINDON ENTRY DOOR 	OVER TUB HDR. HGT.:	8'-4" U.N.O. 6'-8" U.N.O.			
	55 DOOR HEIGHT:	6'-8" (TEMP.)			
 INTERIOR SOF 		8'-0" U.N.O.			
 TRAY CEILING INTERIOR DOS 		7" RISE INTO	TRUSS U.N.C		
211011 201					
	STAIR DATA NOTES				
TIRES TO AAR TIMES AS IN THE STATE STREET					

FIRST FLOOR WITH \$'-I" PLATE HEIGHT:

14" DEEP T.J.I. FLOOR JOISTS WITH 3/4" T&G DECKING

14 TREADS AT 10" EACH

15 RISERS AT 1-71/6" EACH

FIRST FLOOR WITH 9-1" PLATE HEIGHT: 14" DEEP T.J.I. FLOOR JOISTS WITH 3/4" T&G DECKING. 15 TREADS AT 10" EACH 16 RISERS AT 7-3/4" EACH

GENERAL PLAN NOTES

ALL CEILING HEIGHTS PER SECTION AND ELEVATION PLATE HEIGHTS, U.N.O.

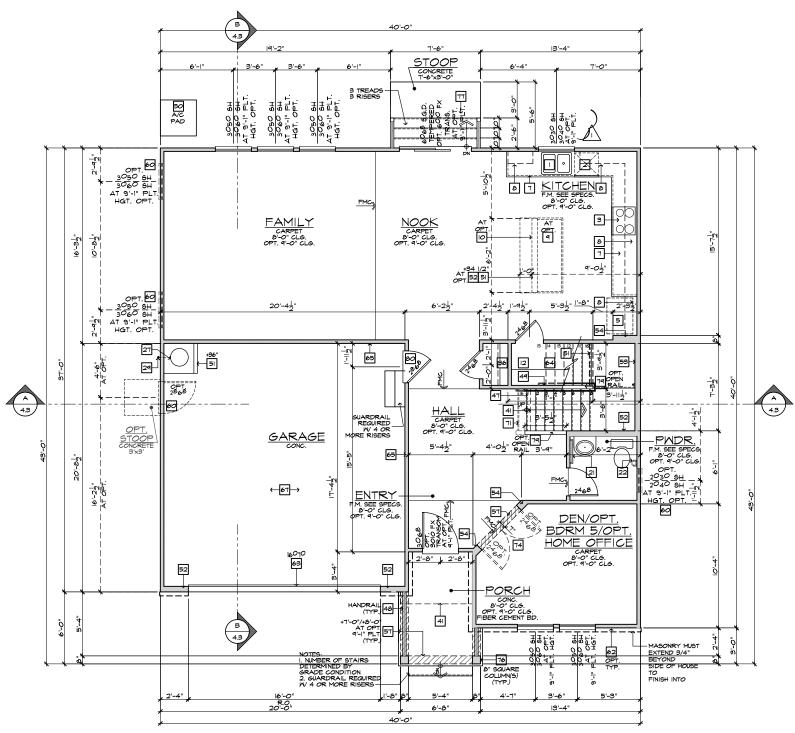
ALL INTERIOR DOORS TO BE HOLLOW CORE I 3/8" THICK, U.N.O. (REFER TO PLAN FOR SIZE).

ALL GARAGE SERVICE DOORS TO BE HOLLOW CORE EXTERIOR GRADE (REFER TO PLAN FOR SIZE).

ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RATED (REFER TO PLAN FOR SIZE).

ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE | 3/4" THICK (REFER TO PLAN FOR SIZE).

ALL FLOOR MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR JAMBS, U.N.O.



FLOOR PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

SINK - GARBAGE DISPOSAL OPTIONAL - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS

DISHMASHER - PROVIDE AIR GAP - VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS

. SLIDE-IN RANGE/OVEN COMBINATION W/ BUILT-IN VENTED HOOD W/LIGHT & FAN. OR MICRO/HOOD COMBO - SEE SPECS

. 30" COOKTOP W BUILT-IN VENTED HOOD W LIGHT & FAN VERIFY WITH MANUFRS' SPECS

6. COMBINATION DOUBLE OVEN OR OVEN MICROWAYE OVEN OR OVEN VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS

BASE CABINETS - REFER TO INTERIOR ELEVATIONS

6. UPPER CABINETS - REFER TO INTERIOR ELEVATIONS

9. ISLAND CABINET - REFER TO INTERIOR ELEVATIONS IO. MIN. I2" BAR TOP/ BREAKFAST BAR

DESK AREA - REFER TO INTERIOR ELEVATIONS

12. BUILT-IN PANTRY (15" DEEP OR U.N.O.)

13. SINK CABINET(S) - REFER TO INTERIOR ELEVATIONS

14. SINK CABINET W/ EXTENDED VANITY & KNEE SPACE BELOW REFER TO INTERIOR ELEVATIONS

15. OPT. SINK - REFER TO INTERIOR ELEVATIONS.

16. KNEE SPACE - REFER TO INTERIOR ELEVATIONS PRE-FAB. TUB/SHOWER COMBO W/ FIBERGLASS WAINSCOT TO 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS

18. OVAL TUB - VERIFY DIMENSIONS WITH MANUFR'S SPECS.

19. PRE-FAB, SHOWER PAN W 30" MIN, CLR, INSIDE & WAINSCOT TO 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS

20. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE.

21. TOWEL BAR - PROVIDE 2x SOLID BLK'G IN WALL 22. TOILET PAPER HOLDER - PROVIDE 2x SOLID BLK'G IN WALL

23. RESERVED

25. NASHER & DRYER: - PROVIDE MATER & MASTE FOR MASHER RECESS MASHER CONTROL VALVES IN MALL - VENT DRYER TO OUTSIDE AIR. - ACCOMMODATE APPLIANCES TO BE LOCATED WASHER AT LEFT AND DRYER AT RIGHT.

25. I2" SHELF PER SPECS

26. OPT. LAUNDRY SINK - REFER TO INTERIOR ELEV'S

27. WATER HEATER LOCATION: - FOR GAS - LOCATE ON 18" HIGH PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN \$ DRAIN. (REFER TO 15/AD4)

28. R.A.G. LOCATION (SEE HVAC PLAN)

29. MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF VALVE

30. F.A.U. LOCATION (REFER TO DETAIL 88/AD5)

31. RESERVED

32. LISTED FACTORY-BUILT GAS FIRED DEC. APPLIANCE (REF. 80/AD4) - INSTALL PER MFR. SPECS

33. HEARTH TO BE INSTALLED PER FACTORY-BUILT FIREPLACE LISTING

34. GAS APPLIANCE 'B' VENT FROM BELOW

35. LINEN PER SPECS (15" DEEP OR U.N.O.)

36. COAT CLOSET W SHELF & POLE (REFER TO DETAILTS/AD4) 37. WARDROBE W/ SHELF & POLE (REFER TO DETAILT3/AD4)

36, 22"X30" MIN. ATTIC ACCESS 25"X54" PULL DOWN LADDER R.O. ATTIC ACCESS TO BE PROTECTED

39. LINE OF WALL BELOW

40. DUCT CHASE/VOID SPACE - 1/2" GYP. BD. AT CLG. FIRE BLKG 41. LINE OF FLOOR ABOVE

43. LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL 92/AD5)

44. LINE OF HIP AT OPTIONAL VOLUME CEILING 45. LINE OF RIDGE AT OPTIONAL VOLUME CEILING

46. CEILING BREAK

47. STAIR TREADS & RISERS: - MIN. IO" TREAD & MAX. 7 3/4" RISER - (REFER TO DETAIL 81-82/AD5)

48. MIN, 36" HIGH GUARDWALL (REFER TO DET. 83/AD5 & 85/AD5

50. A/C PAD LOCATION 50AA/C LINESET LOCATION 51. LOW WALL - REFER TO PLAN FOR HEIGHT

52. 2x6 STUD WALL

53. 2x6 BALLOON FRAMED WALL PER STRUCTURAL

54. DBL. 2x4 WALL PER PLAN
55. INTERIOR SHELF-SEE PLAN FOR HT.

56. MEDIA NICHE 57. FLAT SOFFIT - SEE ELEV. FOR HGT.

58. ARCHED SOFFIT - SEE ELEV. FOR HGT.

59. WINDOW SEAT

60. OPT. DOOR/ WINDOW

61. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.

62. BRICK / STONE VENEER - REFER TO ELEVATIONS VENEER TO COMPLY WITH THE N.C.-R.

63. SECTIONAL GARAGE DOOR PER SPECS

64. MIN. I/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR.

65. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O. 66. OPT. MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL 86/AD5) 67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR ABV

68. P.T. POST W WRAP

69. CONCRETE STOOP: SIZE PER PLAN SLOPE I/4" PER FT. MIN.

TO. EGRESS WINDOW

TI. PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT.

73. PLUMBING DROP FROM ABOVE

74. ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN 75. WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(5) ON ALL SIDES U.N.O.

76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

77. CONCRETE SLAB. SLOPE I/4" PER FT. MIN. SEE PLAN FOR SIZE.

78. 1/2" PRELIM, 6YB. BD. BEHIND TUB/SHOWER (TO MEET STC) 79. SLOPING LOW WALL 38" ABOVE ADJACENT TREADS

80. 20 MIN. FIRE-RATED DOOR

SPEC. LEVEL 1 RALEIGH-DURHAM

FIRST FLOOR PLAN 'A' W/ CRAWL SPACE





NORTH CAROLINA 40' SERIES

кв номе NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING** CODES

03/25/21 ISSUE DATE: PROJECT No.: 1350999:56

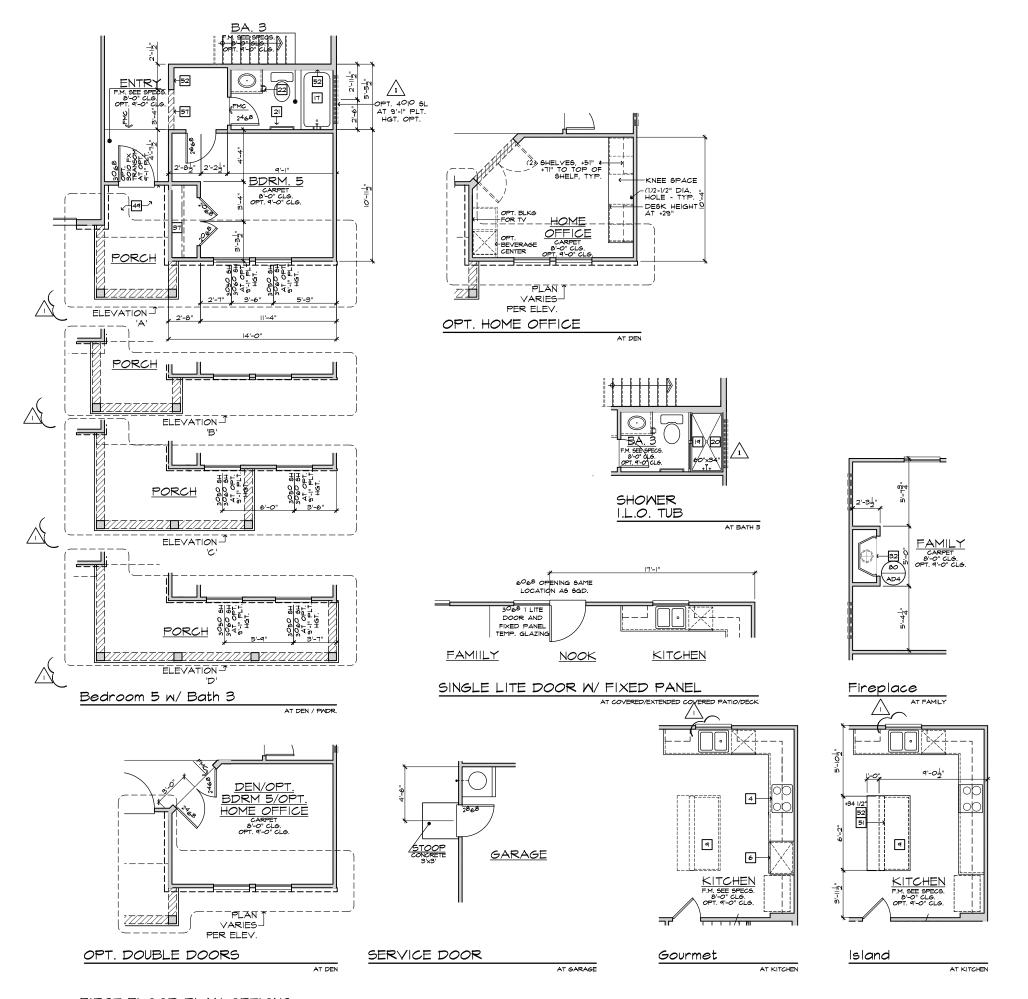
MCP

REVISIONS: SEE BELOW DIVISION REVISION NC2105ICNP / 08/16/21 / KBA

DIVISION MGR.:

240.2539 1.3

40' SERIES



FIRST FLOOR PLAN OPTIONS

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

FLOOR PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY

- SINK GARBAGE DISPOSAL OPTIONAL VERIFY DIMENSIONS
 WITH MANUFACTURERS' SPECS
- DISHMASHER PROVIDE AIR GAP VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS
- . SLIDE-IN RANGE/OVEN COMBINATION W/ BUILT-IN VENTED HOOD W/LIGHT & FAN. OR MICRO/HOOD COMBO SEE SPECS
- . 30" COOKTOP W BUILT-IN VENTED HOOD W LIGHT & FAN VERIFY WITH MANUFRS' SPECS
- 5. 94" CLEAR REFRIGERATOR SPACE W OPTIONAL CABINETS ABOVE OPT. PLUMBING FOR ICEMAKER (RECESSED IN WALL) COMBINATION DOUBLE OVEN OR OVEN MICROMAVE OVEN OR OVEN VERIFY DIMENSIONS MITH MANUFACTURERS' SPECS

- BASE CABINETS REFER TO INTERIOR ELEVATIONS
- 8. UPPER CABINETS REFER TO INTERIOR ELEVATIONS
- 9. ISLAND CABINET REFER TO INTERIOR ELEVATIONS IO. MIN. I2" BAR TOP/ BREAKFAST BAR
- DESK AREA REFER TO INTERIOR ELEVATIONS 12. BUILT-IN PANTRY (15" DEEP OR U.N.O.)
- IS. SINK CABINET(S) REFER TO INTERIOR ELEVATIONS
- 14. SINK CABINET W/ EXTENDED VANITY & KNEE SPACE BELOW REFER TO INTERIOR ELEVATIONS
- 15. OPT. SINK REFER TO INTERIOR ELEVATIONS.16. KNEE SPACE REFER TO INTERIOR ELEVATIONS
- PRE-FAB. TUB/SHOWER COMBO W/ FIBERGLASS WAINSC 72" VERIFY DIMENSIONS W/ MANUF'S SPECS
- 18. OVAL TUB VERIFY DIMENSIONS WITH MANUFR'S SPECS. 19. PRE-FAB, SHOWER PAN W 30" MIN, CLR, INSIDE & WAINSCOT TO 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS
- 20. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE.
- 21. TOWEL BAR PROVIDE 2x SOLID BLK'G IN WALL 22. TOILET PAPER HOLDER - PROVIDE 2x SOLID BLK'G IN WALL
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- 27. WATER HEATER LOCATION: FOR GAS LOCATE ON 18" HIGH PLATFORM FOR INTERIOR LOCATION PROVIDE PAN \$ DRAIN. (REFER TO 15/AD4)
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- 29. MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF VALVE
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- 36. COAT CLOSET W SHELF & POLE (REFER TO DETAILTS/AD4) 37. WARDROBE W/ SHELF & POLE (REFER TO DETAILT3/AD4)
- 36, 22"X30" MIN. ATTIC ACCESS 25"X54" PULL DOWN LADDER R.O. ATTIC ACCESS TO BE PROTECTED
- 39. LINE OF WALL BELOW
- 40. DUCT CHASE/VOID SPACE 1/2" GYP. BD. AT CLG. FIRE BLKG 4I. LINE OF FLOOR ABOVE
- 43. LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL 92/AD5)
- 44. LINE OF HIP AT OPTIONAL VOLUME CEILING
- 45. LINE OF RIDGE AT OPTIONAL VOLUME CEILING
- 46. CEILING BREAK
- 47. STAIR TREADS & RISERS: MIN. IO" TREAD & MAX. 7 3/4" RISER (REFER TO DETAIL 81-82/AD5)
- 48. MIN. 36" HIGH GUARDWALL (REFER TO DET. 83/AD5 & 85/AD5
- 49. 34" TO 36" HIGH HANDRAIL (REFER TO DETAIL 83/AD5

- 50. A/C PAD LOCATION 50AA/C LINESET LOCATION 51. LOW WALL REFER TO PLAN FOR HEIGHT 52. 2x6 STUD WALL 53. 2x6 BALLOON FRAMED WALL PER STRUCTURAL
- 54. DBL. 2x4 WALL PER PLAN
 55. INTERIOR SHELF-SEE PLAN FOR HT.
- 56. MEDIA NICHE 57. FLAT SOFFIT SEE ELEV. FOR HGT.
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- 67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR ABV
- 68. P.T. POST W WRAP
- 69. CONCRETE STOOP: SIZE PER PLAN SLOPE I/4" PER FT. MIN.
- 70. EGRESS MINDOW
- 71. PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT.
- 73. PLUMBING DROP FROM ABOVE

80. 20 MIN. FIRE-RATED DOOR

- 14. ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN 75. WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(S) ON ALL SIDES U.N.O.
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SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

240.2539

HEET:

1.4



NORTH CAROLINA 40' SERIES

кв номе NORTH CAROLINA DIVISION

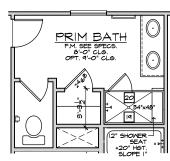
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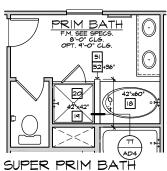
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PROJECT No.: 1350999:56 DIVISION MGR.: MCP REVISIONS: SEE BELOW

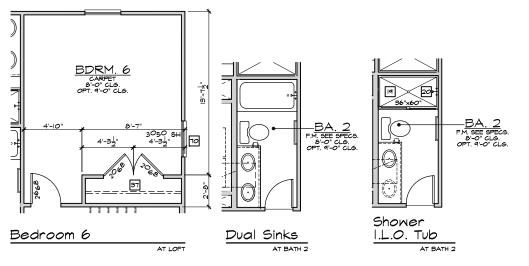
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DELUXE PRIM BATH



AT PRIM BATH



SECOND FLOOR PLAN OPTIONS

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

FLOOR PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

- SINK GARBAGE DISPOSAL OPTIONAL VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS
- DISHMASHER PROVIDE AIR GAP VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS
- 3. SLIDE-IN RANGE/OVEN COMBINATION W BUILT-IN VENTED HOOD WLIGHT & FAN. OR MICRO/HOOD COMBO SEE SPECS 30" COOKTOP W BUILT-IN VENTED HOOD W LIGHT & FAN VERIFY WITH MANUFRS' SPECS
- 5. 34" CLEAR REFRIGERATOR SPACE W OPTIONAL CABINETS ABOVE OPT. PLUMBING FOR ICEMAKER (RECESSED IN WALL)
 6. COMBINATION DOUBLE OVEN OR OVEN WICROWAVE OVEN OR OVEN VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS

- . BASE CABINETS REFER TO INTERIOR ELEVATIONS
- 8. UPPER CABINETS REFER TO INTERIOR ELEVATIONS
- 1. ISLAND CABINET REFER TO INTERIOR ELEVATIONS IO. MIN. 12" BAR TOP/ BREAKFAST BAR
- II. DESK AREA REFER TO INTERIOR ELEVATIONS
 12. BUILT-IN PANTRY (15" DEEP OR U.N.O.)
- 13. SINK CABINET(S) REFER TO INTERIOR ELEVATIONS
- 14. SINK CABINET W EXTENDED VANITY & KNEE SPACE BELOW REFER TO INTERIOR ELEVATIONS
- 15. OPT. SINK REFER TO INTERIOR ELEVATIONS.16. KNEE SPACE REFER TO INTERIOR ELEVATIONS
- PRE-FAB, TUB/SHOWER COMBO W/ FIBERGLASS WAINSCOT TO 72" VERIFY DIMENSIONS W/ MANUF'S SPECS
- 18. OVAL TUB VERIFY DIMENSIONS WITH MANUFR'S SPECS.
- 19. PRE-FAB, SHOWER PAN W 30" MIN, CLR, INSIDE & WAINSCOT TO 72" VERIFY DIMENSIONS W/ MANUF'S SPECS
- 20. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE. 21. TOWEL BAR - PROVIDE 2x SOLID BLK'G IN WALL
- 22. TOILET PAPER HOLDER PROVIDE 2x SOLID BLK'G IN WALL
- 23. RESERVED
- 24. MASHER & DRYER: PROVIDE MATER & MASTE FOR MASHER RECESS MASHER CONTROL VALVES IN MALL VENT DRYER TO OUTSIDE AIR. ACCOMMODATE APPLIANCES TO BE LOCATED MASHER AT LEFT AND DRYER AT RIGHT.
- 25. I2" SHELF PER SPECS
- 26. OPT. LAUNDRY SINK REFER TO INTERIOR ELEV'S
- 27. WATER HEATER LOCATION: FOR GAS LOCATE ON 18" HIGH-PLATFORM FOR INTERIOR LOCATION PROVIDE PAN & DRAIN. (REFER TO 15/AD4)
- 28. R.A.G. LOCATION (SEE HVAC PLAN) 29. MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF VALVE
- 30. F.A.U. LOCATION (REFER TO DETAIL 88/AD5)
- 31. RESERVED
- 32. LISTED FACTORY-BUILT GAS FIRED DEC. APPLIANCE (REF. 80/AD4) INSTALL PER MFR. SPECS
- 33. HEARTH TO BE INSTALLED PER FACTORY-BUILT FIREPLACE LISTING
- 34. GAS APPLIANCE 'B' VENT FROM BELOW
- 35. LINEN PER SPECS (15" DEEP OR U.N.O.)
- 36. COAT CLOSET W SHELF & POLE (REFER TO DETAILTS/AD4)
- 37. WARDROBE W SHELF & POLE (REFER TO DETAIL13/AD4)
- 36, 22"X30" MIN. ATTIC ACCESS 25"X54" PULL DOWN LADDER R.O. ATTIC ACCESS TO BE PROTECTED
- 39. LINE OF WALL BELOW
- 40. DUCT CHASE/VOID SPACE 1/2" GYP. BD. AT CLG. FIRE BLKG 41. LINE OF FLOOR ABOVE
- 43. LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL 92/AD5)
- 44. LINE OF HIP AT OPTIONAL VOLUME CEILING
- 45. LINE OF RIDGE AT OPTIONAL VOLUME CEILING
- 46. CEILING BREAK
- 47. STAIR TREADS & RISERS: MIN. IO" TREAD & MAX. 7 3/4" RISER (REFER TO DETAIL 81-82/AD5) 48. MIN. 36" HIGH GUARDWALL (REFER TO DET. 83/AD5 & 85/AD5,
- 49. 34" TO 36" HIGH HANDRAIL (REFER TO DETAIL 83/AD5)

- 50. A/C PAD LOCATION
 50AA/C LINESET LOCATION
 51. LOM MALL REFER TO PLAN FOR HEIGHT
 52. 2x6 STID MALL
 53. 2x6 BALLOON FRAMED WALL PER STRUCTURAL 54. DBL. 2x4 WALL PER PLAN
 55. INTERIOR SHELF-SEE PLAN FOR HT.
- 56. MEDIA NICHE 57. FLAT SOFFIT SEE ELEV. FOR HGT.
- 58. ARCHED SOFFIT SEE ELEV. FOR HGT.
- 59. WINDOW SEAT
- 60. OPT. DOOR/ MINDOW
- 61. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
- 62. BRICK / STONE VENEER REFER TO ELEVATIONS VENEER TO COMPLY WITH THE N.C.-R.
- 63. SECTIONAL GARAGE DOOR PER SPECS
- 64. MIN, I/2" GYP, BD, ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR.
- 65. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O.
- 66. OPT. MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL 86/AD5) 67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR ABV
- 68. P.T. POST W WRAP
- 69. CONCRETE STOOP: SIZE PER PLAN SLOPE I/4" PER FT. MIN.
- 70. EGRESS MINDOW
- 71. PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT.
- 73. PLUMBING DROP FROM ABOVE
- 14. ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN 75. WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(S) ON ALL SIDES U.N.O.
- 76. SITE-BUILT COLUMN SEE ELEVATION FOR TYPE
- 77. CONCRETE SLAB. SLOPE I/4" PER FT. MIN. SEE PLAN FOR SIZE. 78. I/2" PRELIM. GYB. BD. BEHIND TUB/SHOWER (TO MEET STC)
- 79. SLOPING LOW WALL 38" ABOVE ADJACENT TREADS

80. 20 MIN. FIRE-RATED DOOR





NORTH CAROLINA 40' SERIES

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. . . .

2018 NORTH CAROLINA STATE **BUILDING**

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DIVISION MGR.: MCP REVISIONS: SEE BELOW DIVISION REVISION NC21051CNP / 08/16/21 / KBA

240.2539

HEET:

1.5

- CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.
- 2. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER. 1-0" MIN. TOMARD DOOR OPENING.
 3. CONCRETE FOUNDATION PER STRUCTURAL.

- ONCRETE STOOP, 36'x36' STANDARD
 SLOPE 1/4" PER FT. MIN.
 CONCRETE DRIVENAY SLOPE 1/4" PER FT. MIN.
 FROM GARAGE DOOR OPENING.
- 6. PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.
- 7. 5" BRICK LEDGE FOR MASONRY VENEER.
 8. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN, 12" EMBEDMENT INTO CONCRETE.
- REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
- ELEVATIONS.

 IO. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.

 II. 4" MIN. 8 I/4" MAX. TO HARD SURFACE.

 I2. A/C PAD, VERIFY LOCATION.

 I3. 36" WIDE WALKWAY- SLOPE I/4" PER FT. MIN.

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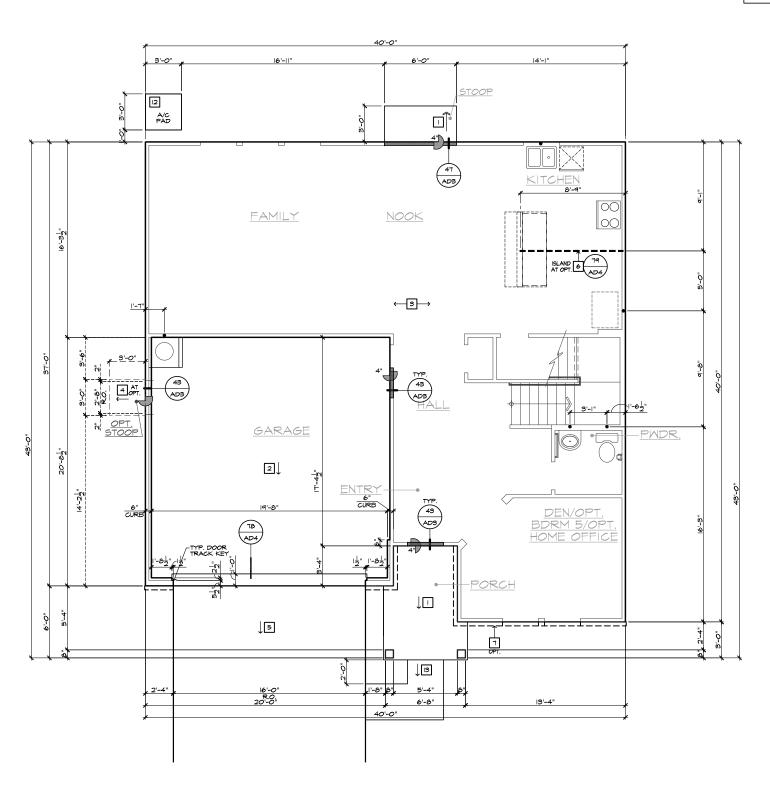
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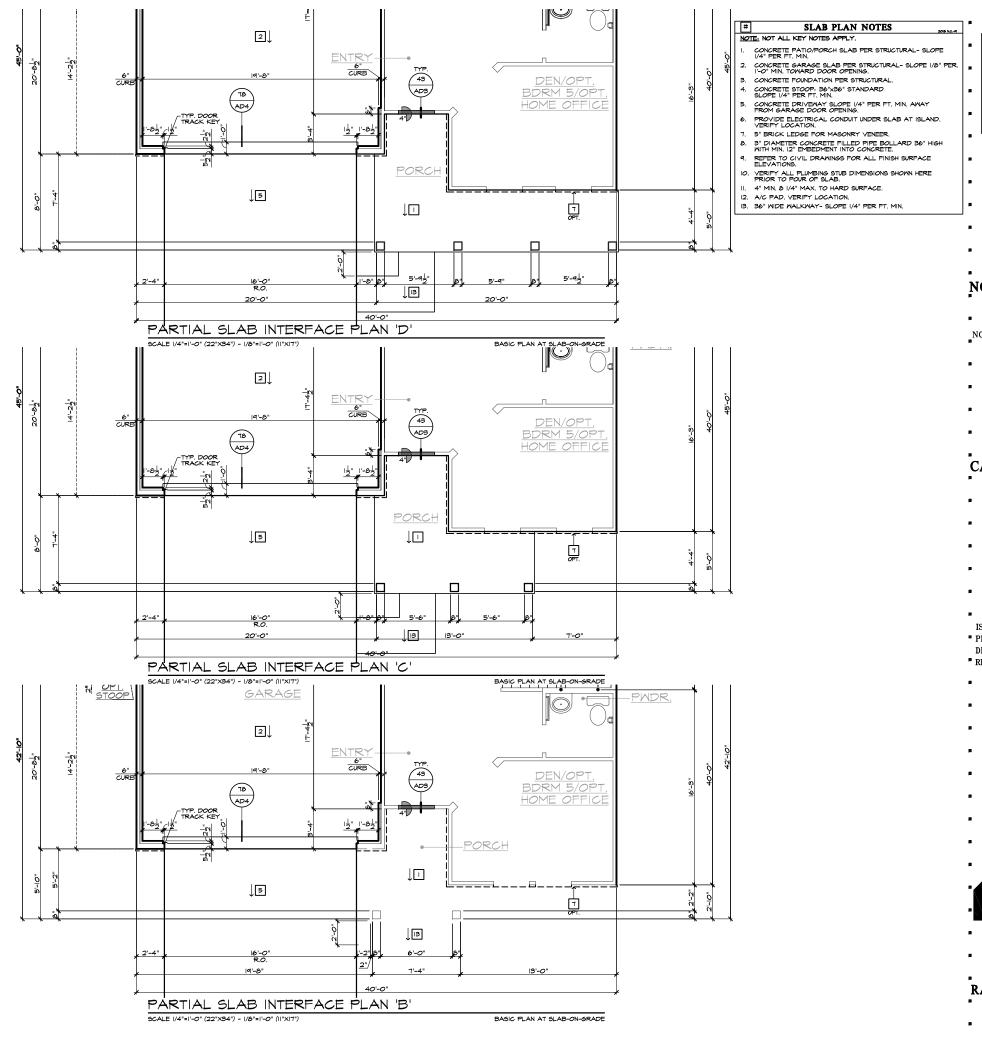
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2.1

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES



SLAB INTERFACE PLAN 'A'



Harnett COUNTY MASTER SET

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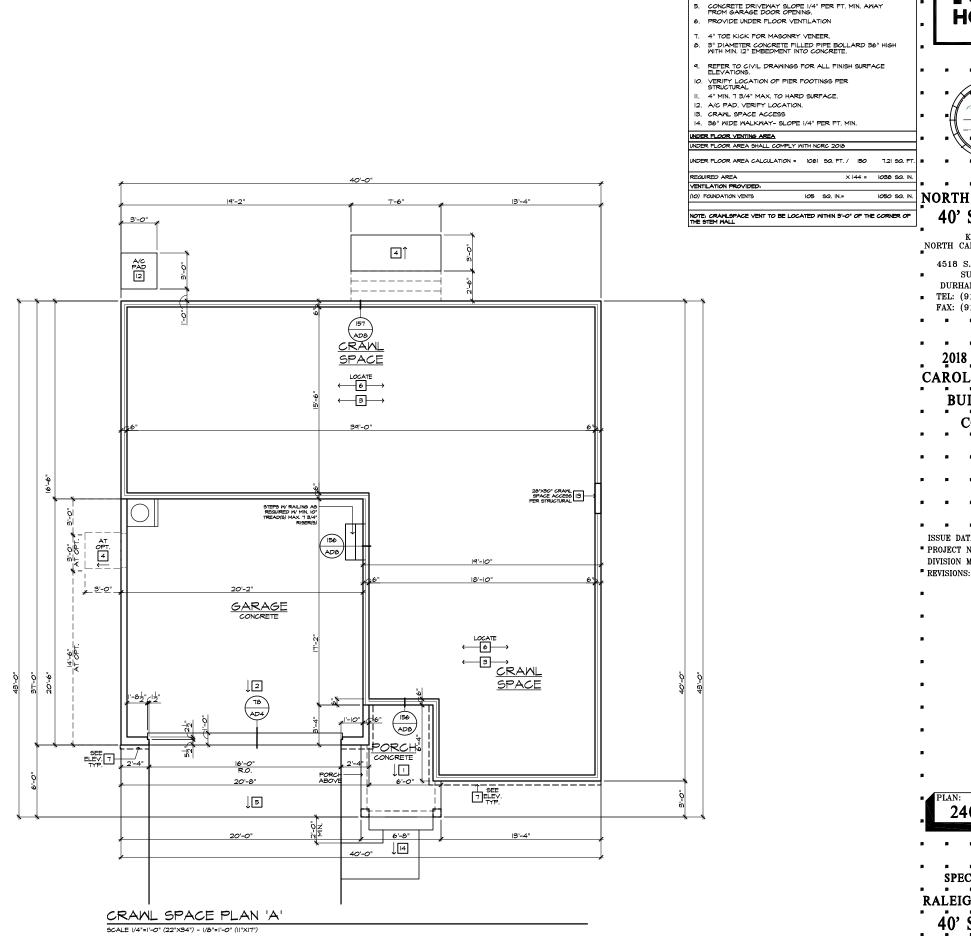
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REVISIONS:

PLAN: 240.2539

SHEET: 2.2

spec. level 1
RALEIGH-DURHAM
40' SERIES



kb HOME

FOUNDATION P

3. FOUNDATION PER STRUCTURAL. 4. STAIR LANDING: 36"x36" MIN.

FOUNDATION PLAN NOTES

CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE 1/4" PER FT. MIN. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/6" PER. 1-0" MIN. TOWARD DOOR OPENING.



1050 SQ. IN. NORTH CAROLINA 40' SERIES

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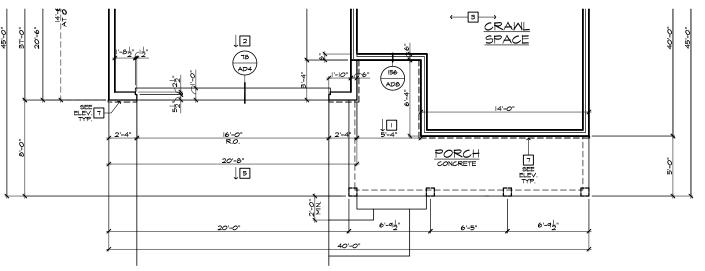
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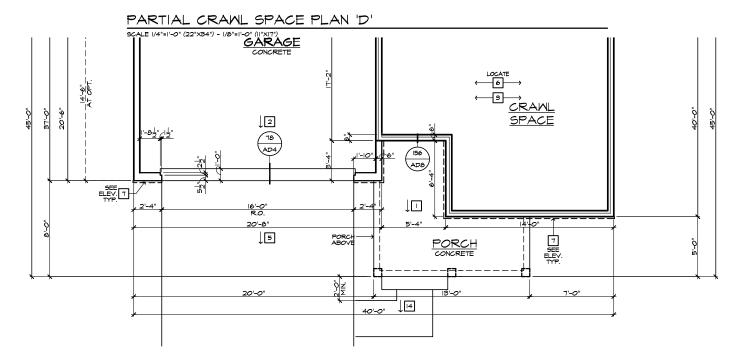
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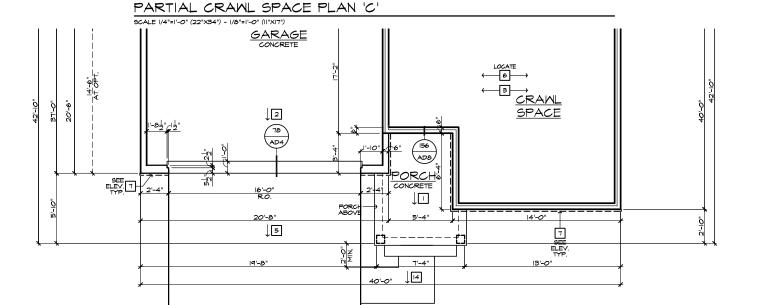
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240.2539

2.3







PARTIAL CRAWL SPACE PLAN 'B'

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

FOUNDATION PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE 1/4" PER FT. MIN.

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE I/8" PER I'-0" MIN. TOWARD DOOR OPENING.

FOUNDATION PER STRUCTURAL.

STAIR LANDING: 36"x36" MIN.

CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.

4" TOE KICK FOR MASONRY VENEER.

3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN, 12" EMBEDMENT INTO CONCRETE.

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

O. VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL

4" MIN. 7 3/4" MAX. TO HARD SURFACE.

12. A/C PAD. VERIFY LOCATION.

IS. CRAWL SPACE ACCESS 14. 36" WIDE WALKWAY- SLOPE I/4" PER FT. MIN

UNDER FLOOR VENTING AREA

(IO) FOUNDATION VENTS

UNDER FLOOR AREA SHALL COM

INDER FLOOR AREA CALCULATION = 1081 SQ. FT. / 150 7.21 SQ. FT. REQUIRED AREA
VENTILATION PROVIDE X 144 = 1038 SQ. IN.

NOTE: CRANLSPACE VENT TO BE LOCATED WITHIN 5'-O' OF THE CORNER OF THE STEM MALL

105 SQ. IN.=

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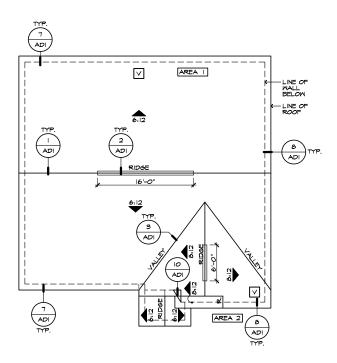
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MCP

DIVISION MGR.: **REVISIONS:**

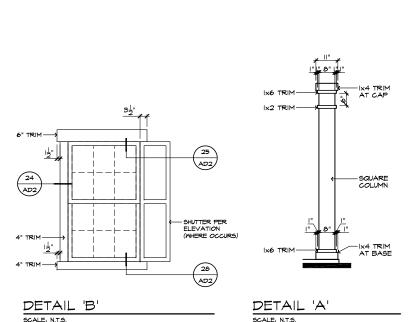
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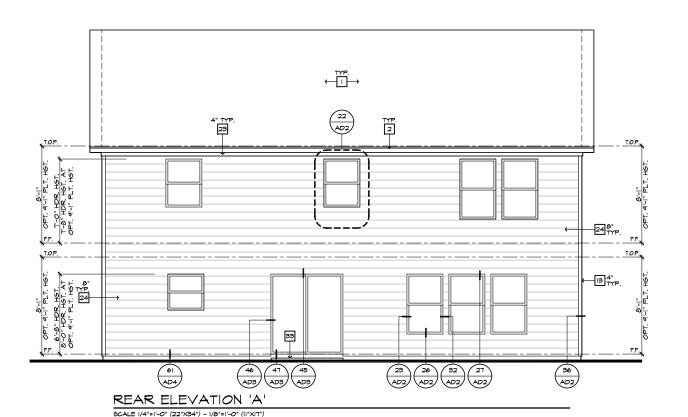
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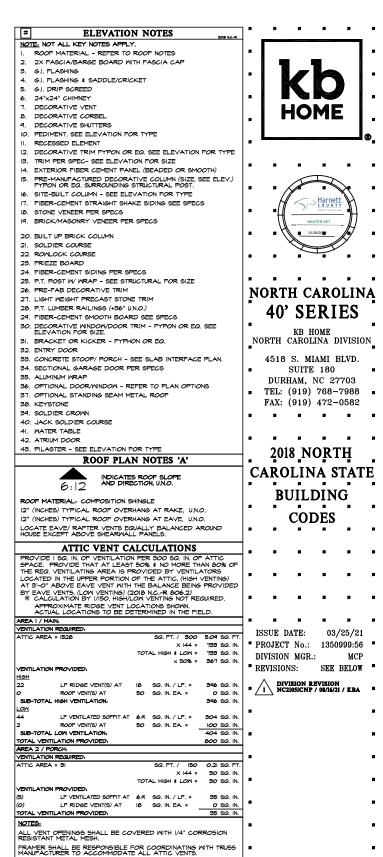
ROOF PLAN 'A'

SCALE I/8"=1'-0" (22"X34") - I/I6"=1'-0" (II"XI7")









PROVIDE APPROVED INSULATION DAMS (BAFFLES) WHERE VENT BLOCKS ARE USED BETWEEN ROOF FRAMING MEMBERS TO PREVENT VENT HOLES FROM BEING BLOCKED BY INSULATION.

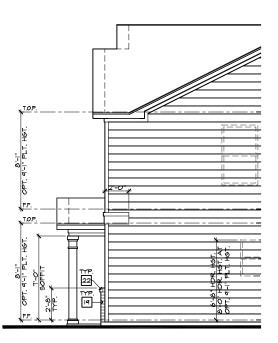
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SPEC. LEVEL 1

RALEIGH-DURHAM

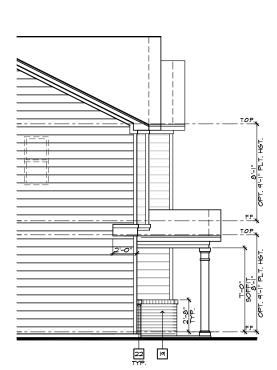
40' SERIES

3.A1



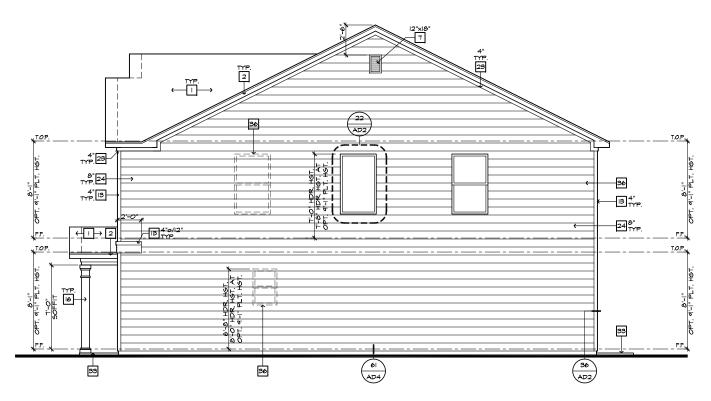
PARTIAL RIGHT ELEVATION 'A' W/ MASONRY OPTION

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")



PARTIAL LEFT ELEVATION 'A'

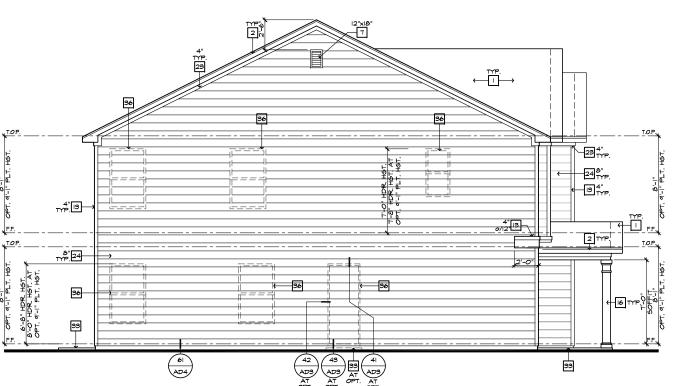
W/ MASONRY OPTION SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")



RIGHT ELEVATION 'A'

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")



ELEVATION NOTES

- NOTE: NOT ALL KEY NOTES APPLY.

 I. ROOF MATERIAL REFER TO ROOF NOTES
- 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
- 3. G.I. FLASHING
- 4. G.I. FLASHING & SADDLE/CRICKET
 5. G.I. DRIP SCREED
- 6. 24"x24" CHIMNEY 7. DECORATIVE VENT
- 8. DECORATIVE CORBEL
- 9. DECORATIVE SHUTTERS IO. PEDIMENT. SEE ELEVATION FOR TYPE
- II. RECESSED ELEMENT 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
- 13. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH)
- 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
- 16. SITE-BUILT COLUMN SEE ELEVATION FOR TYPE
- 17. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS
- 18. STONE VENEER PER SPECS 19. BRICK/MASONRY VENEER PER SPECS
- 20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE
- 22. ROWLOCK COURSE
- 23. FRIEZE BOARD
 24. FIBER-CEMENT SIDING PER SPECS
- 25. P.T. POST W WRAP SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM
- 27. LIGHT WEIGHT PRECAST STONE TRIM
- 28. P.T. LUMBER RAILINGS (+36" U.N.O.)
- 29. FIBER-CEMENT SMOOTH BOARD SEE SPECS
- 30. DECORATIVE WINDOW/DOOR TRIM FYPON OR EQ. SEE ELEVATION FOR SIZE.
- 31. BRACKET OR KICKER FYPHON OR EQ. 32. ENTRY DOOR
- 33. CONCRETE STOOP/ PORCH SEE SLAB INTERFACE PLAN. 34. SECTIONAL GARAGE DOOR PER SPECS
- 35. ALUMINUM WRAP
- 36. OPTIONAL DOOR/MINDOM REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF
- 38. KEYSTONE 39. SOLDIER CROWN
- 40. JACK SOLDIER COURSE 41. WATER TABLE
- 43. PILASTER SEE ELEVATION FOR TYPE

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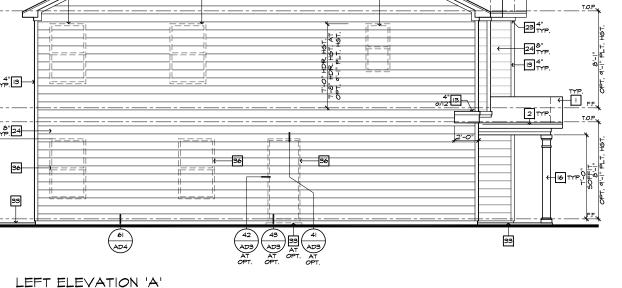
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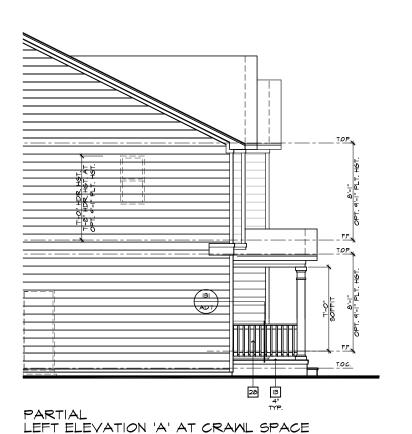
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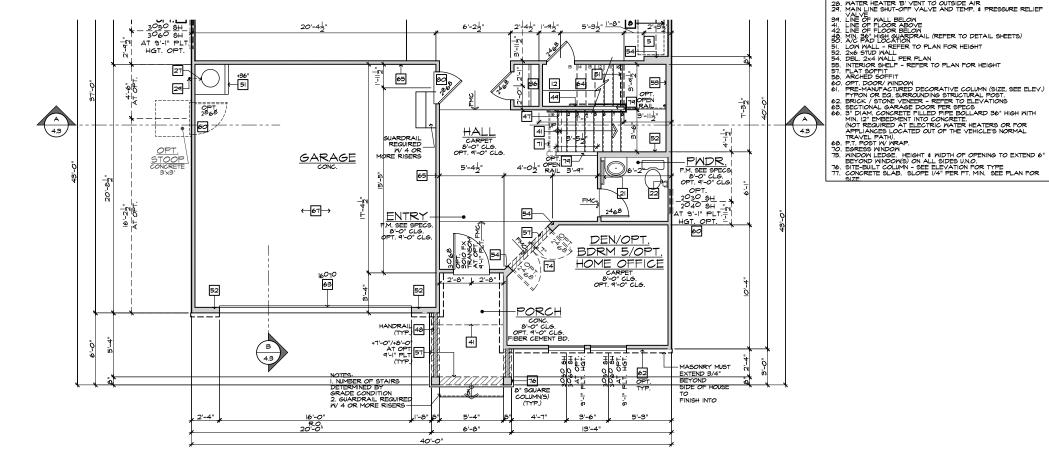




8" TYP. 24 TYP. 2 $\longleftarrow \stackrel{\text{TYP.}}{ }$ 15"×59" TYP. —————— TYP. TYP. 6"[3]-15"x59"[9]-7/P. 24 4"[3-4"0/12" [3 T.O.P. 8" B TYP.[3]-TYP. [6] 8"24--B4"-00 F ____T.O.C. T.O.C. 25 AD2 AD2 6I AD4 55 5 34 OPT. TRANSOM 32 AD3 TYP. 4'-I" PLT. HGT.

FRONT ELEVATION 'A' W/ CRAWL SPACE SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")





3. G.I. FLASHING

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL 9. DECORATIVE SHUTTERS

I. RECESSED ELEMENT

18. STONE VENEER PER SPECS 19. BRICK/MASONRY VENEER PER SPECS

23. FRIEZE BOARD
24. FIBER-CEMENT SIDING PER SPECS

27. LIGHT WEIGHT PRECAST STONE TRIM

43. PILASTER - SEE ELEVATION FOR TYPE

PARTIAL PLAN NO

NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

28. P.T. LUMBER RAILINGS (+36" U.N.O.)

20. BUILT UP BRICK COLUMN

21. SOLDIER COURSE 22. ROWLOCK COURSE

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE 41. WATER TABLE

42. ATRIUM DOOR

4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED

IO. PEDIMENT. SEE ELEVATION FOR TYPE

2018 NORTH **CAROLINA STATE BUILDING** CODES

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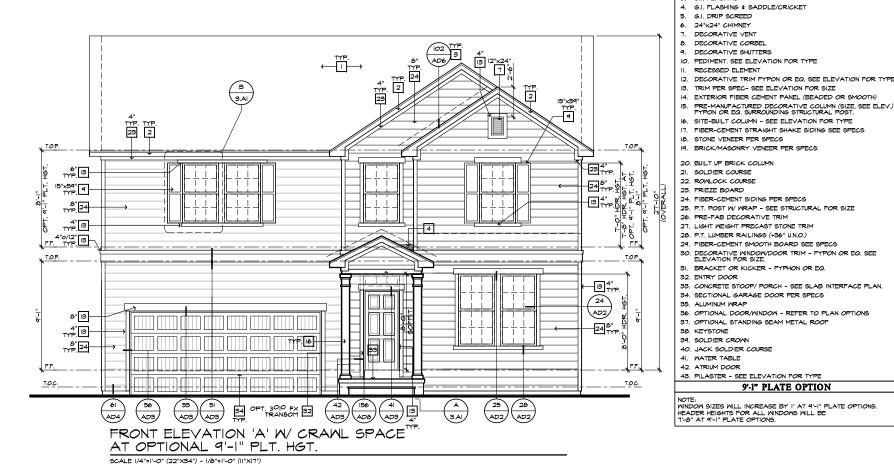
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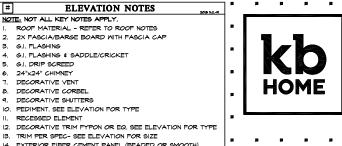
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3.A3

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

PARTIAL FIRST FLOOR PLAN 'A' AT CRAWL SPACE





ELEVATION NOTES

9'-1" PLATE OPTION

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

3. G.I. FLASHING



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8° 17°P. 17°P. 17°P. 233 4" TYP. TYP. 23 2 23 4" TYP. TYP. [3] 15"x59" [9]-TYP. 8" TYP. 24 +⁴".[β]− —[13] ⁴" TYP. 8" [B 24 AD2 -√4".[i3]-8" 24 TYP. 24 —24 8" TYF 22 56 AD3 OPT. 300 FX 32 TRANSOM 32

PARTIAL FRONT ELEVATION 'A' AT OPTIONAL 9'-1" PLT. HGT. W/ BRICK OPT.

22

IA-TYP.

69 AD4

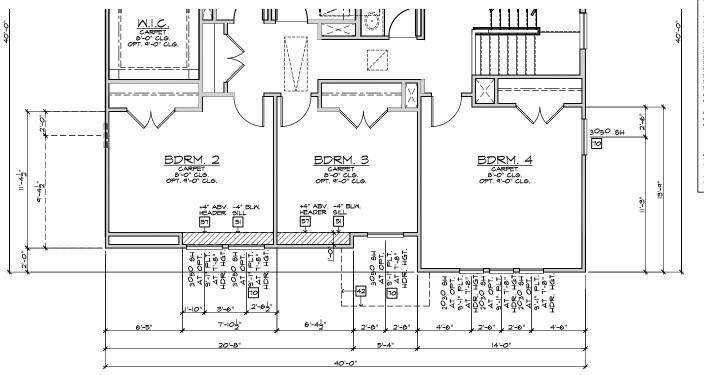
60 AD3

FRONT ELEVATION 'A' AT OPTIONAL 9'-I" PLT. HGT.

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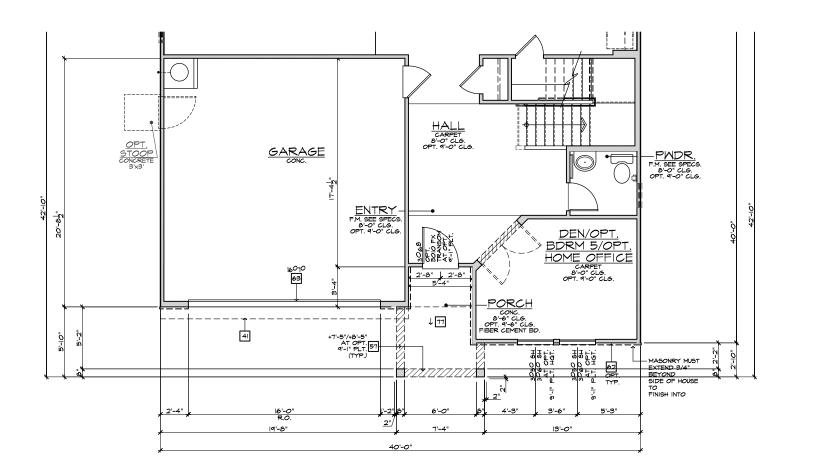
SPEC. LEVEL 1 RALEIGH-DURHAM

3.**A**4



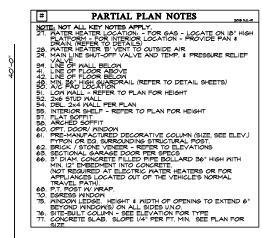


BASIC PLAN



PARTIAL FIRST FLOOR PLAN 'B'

BASIC PLAN







NORTH CAROLINA 40' SERIES

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4518 S. MIAMI BLVD.

SUITE 180

DURHAM, NC 27703

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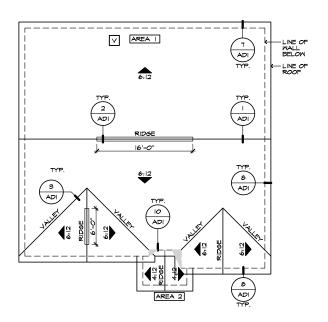
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spec. level 1

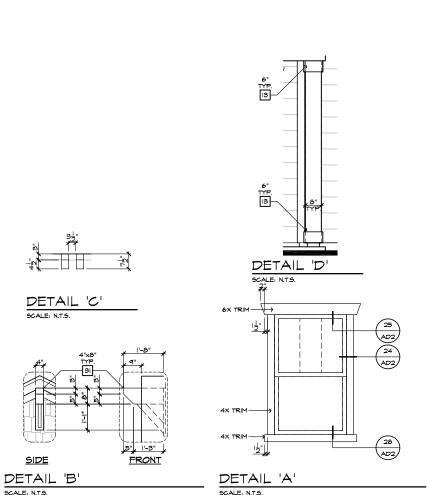
RALEIGH-DURHAM

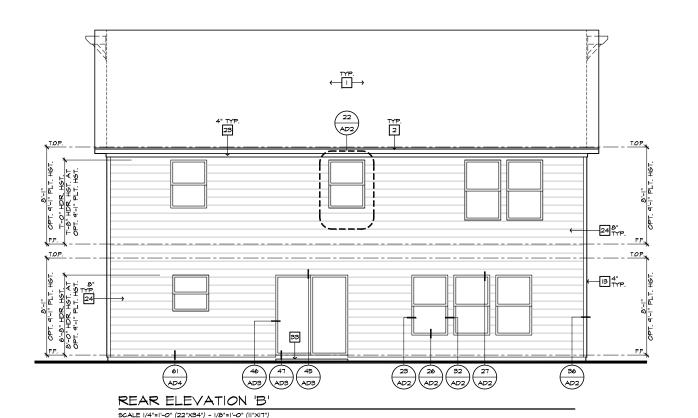
40' SERIES

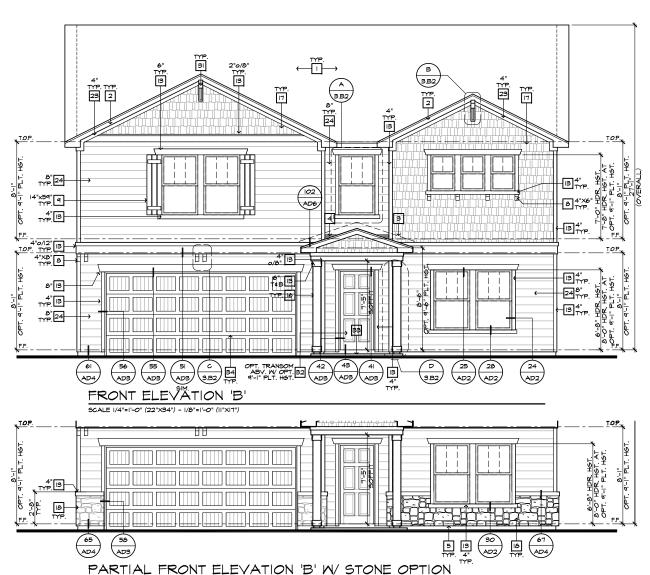


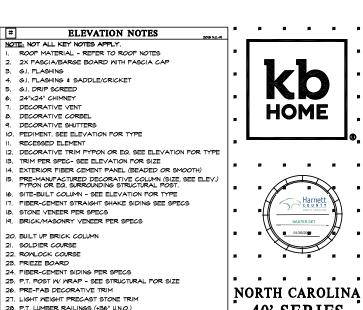
ROOF PLAN 'B'

SCALE I/8"=1'-0" (22"X34") - I/I6"=1'-0" (II"XI7")











40' SERIES

кв номе NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING**

CODES

PROJECT No.: 1350999:56

DIVISION REVISION
NC2105ICNP / 08/16/21 / KBA

03/25/21

SEE BELOW

MCP

ISSUE DATE:

REVISIONS:

DIVISION MGR.:

INDICATES ROOF SLOPE AND DIRECTION, U.N.O. 6:12 ROOF MATERIAL: COMPOSITION SHINGLE

ROOF PLAN NOTES 'B'

12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARWALL PANELS. ATTIC VENT CALCULATIONS

29. FIBER-CEMENT SMOOTH BOARD SEE SPECS 30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.

33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

31. BRACKET OR KICKER - FYPHON OR EQ. 32. ENTRY DOOR

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

43. PILASTER - SEE ELEVATION FOR TYPE

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE 41. WATER TABLE

42. ATRIUM DOOR

PROVIDE I SO, IN. OF VENTILATION PER 300 SQ, IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF THE RED. VENTILATING AREA IS PROVIDED BY VENTILATING LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING) AT 3'-O' ABOVE EAVE VENT WITH THE BALLANCE BEING PROVIDED BY EAVE VENTS, (LOW VENTING) (2018 N.C.-R 806.2)

**CALCULATION BY UTSO, HIGH LOCATIONS SHOWN. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

	CTUAL LOCATIONS TO BE DE			
AREA I /				
	TION REQUIRED:			
ATTIC AF	REA = 1542		50. FT. / 300	5.14 SQ. F
			x 144 =	740 SQ. IN
		TOT	'AL HIGH & LOW =	740 SQ. IN
			× 50% =	370 SQ. IN
VENTILAT	TION PROVIDED:			
<u>HIGH</u>				
22	LF RIDGE VENT(S) AT	18	5Q. IN. / LF. =	396 50. IN
0	ROOF VENT(S) AT	50	5Q. IN. EA. =	0 5Q. IN
SUB-TO	TAL HIGH VENTILATION:			396 SQ. IN
LOW				
50	LF VENTILATED SOFFIT AT	6.9	5Q. IN. / LF. =	545 SQ. IN
l	ROOF VENT(S) AT	50	5Q. IN. EA. =	50 SQ. IN
SUB-TO	TAL LOW VENTILATION:		•	395 SQ. IN
TOTAL V	ENTILATION PROVIDED:			791 SQ. IN
AREA 2	/ PORCH:			
VENTILA1	TION REQUIRED:			
ATTIC AF	REA = 38		5Q. FT. / 150	0.25 SQ. F
			x 144 =	36 SQ. IN

LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = LF RIDGE VENT(S) AT 18 SQ. IN. EA. = NOTES:

ALL VENT OPENINGS SHALL BE COVERED WITH 1/4" CORROSION RESISTANT METAL MESH. FRAMER SHALL BE RESPONSIBLE FOR COORDINATING WITH TRUSS MANUFACTURER TO ACCOMMODATE ALL ATTIC VENTS.

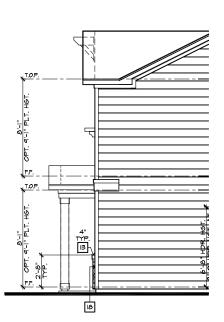
PROVIDE APPROVED INSULATION DAMS (BAFFLES) WHERE VENT BLOCKS ARE USED BETMEEN ROOF FRAMING MEMBERS TO PREVENT VENT HOLES FROM BEING BLOCKED BY INSULATION. LOCATE HIGH VENTING MINIMUM 3'-O" VERTICAL DISTANCE ABOV EAVES.

WHEN GABLE END TRUSS MEMBERS BLOCK GABLE END VENTS PROVIDE ADEQUATE ADDITIONAL VENTILATION BY MEANS OF ROOF TILE VENTS.

240.2539

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

3.B2



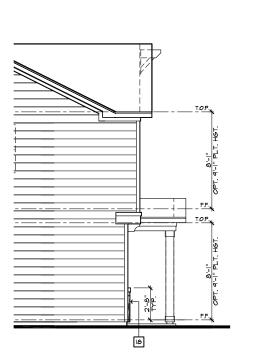
PARTIAL RIGHT ELEVATION 'B' W/ STONE OPTION

SCALE I/4"=I'-O" (22"X34") - I/8"=I'-O" (II"XI7")



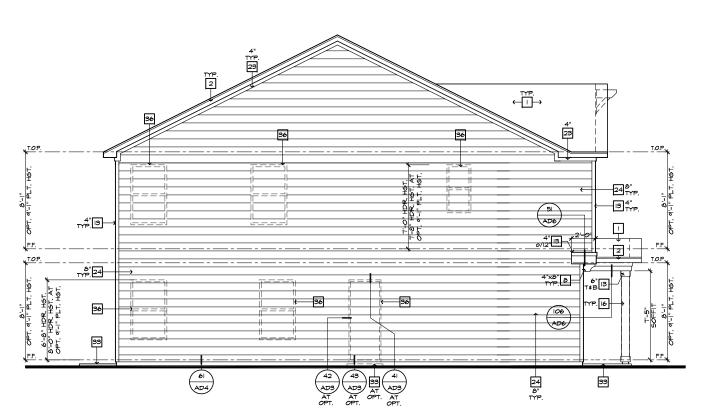
RIGHT ELEVATION 'B'

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")



PARTIAL LEFT ELEVATION 'B' W/ STONE OPTION

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")



LEFT ELEVATION 'B'

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY. I. ROOF MATERIAL - REFER TO ROOF NOTES

- 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
- 3. G.I. FLASHING
- 4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED
- 6. 24"x24" CHIMNEY 7. DECORATIVE VENT
- 8. DECORATIVE CORBEL
- 9. DECORATIVE SHUTTERS IO. PEDIMENT. SEE ELEVATION FOR TYPE
- II. RECESSED ELEMENT 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
- 13. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH)
- PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
- 16. SITE-BUILT COLUMN SEE ELEVATION FOR TYPE
- 17. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS
- 18. STONE VENEER PER SPECS
- 19. BRICK/MASONRY VENEER PER SPECS
- 21. SOLDIER COURSE
- 22. ROWLOCK COURSE
- 23. FRIEZE BOARD
 24. FIBER-CEMENT SIDING PER SPECS
- 25. P.T. POST W WRAP SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM
- 27. LIGHT WEIGHT PRECAST STONE TRIM 26. P.T. LUMBER RAILINGS (+36" U.N.O.)
- 29. FIBER-CEMENT SMOOTH BOARD SEE SPECS
- 30. DECORATIVE WINDOW/DOOR TRIM FYPON OR EQ. SEE ELEVATION FOR SIZE.
- 31. BRACKET OR KICKER FYPHON OR EQ. 32. ENTRY DOOR
- 33. CONCRETE STOOP/ PORCH SEE SLAB INTERFACE PLAN. 34. SECTIONAL GARAGE DOOR PER SPECS
- 35. ALUMINUM WRAP
- 36. OPTIONAL DOOR/WINDOM REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF

- 38. KEYSTONE 39. SOLDIER CROWN
- 40. JACK SOLDIER COURSE 41. WATER TABLE
- 43. PILASTER SEE ELEVATION FOR TYPE





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 . FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE** BUILDING CODES

ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.: MCP

DIVISION REVISION
NC21051CNP / 08/16/21 / KBA

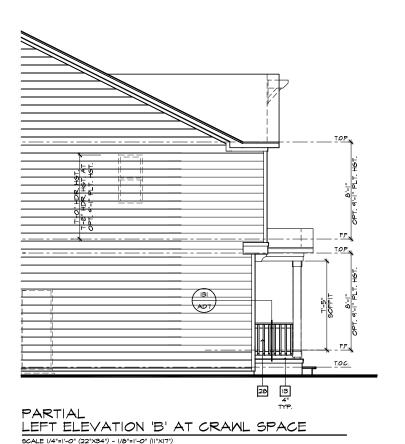
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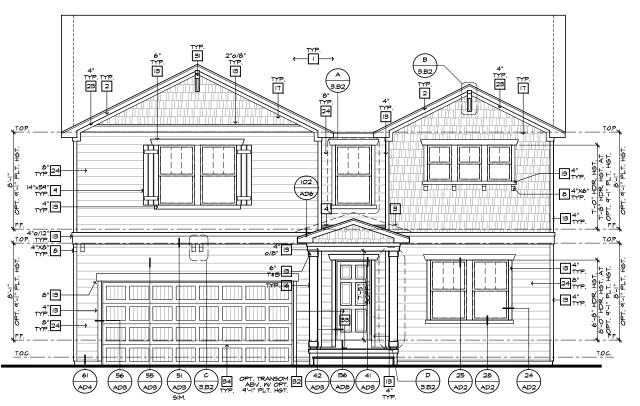
REVISIONS:

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3.**B**3

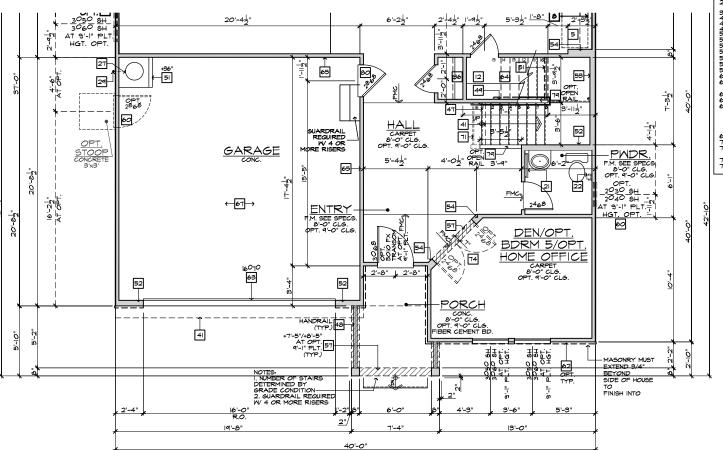
SPEC. LEVEL 1 RALEIGH-DURHAM





FRONT ELEVATION 'B' W/ CRAWL SPACE

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")







NORTH CAROLINA 40' SERIES

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2018 NORTH **CAROLINA STATE BUILDING**

PARTIAL PLAN NOTES

NOTE, NOT ALL KEY NOTES APPLY.

27. WATER HEATER LOCATION: FOR GAS - LOCATE ON 10" HIGH DRAIN (REFER TO DETAILS). LOCATION - PROVIDE PAN & DRAIN (REFER TO PETAILS). LOCATION - PROVIDE PAN & DRAIN (REFER TO PETAILS). LOCATION - PROVIDE PAN & DRAIN (REFER TO PETAILS).

28. WATER HEATER B' YENT TO OUTSIDE AIR & MAIN, LINE SHIT-OFF VALVE AND TEMP. & PRESSURE RELIEF WAY.

39. YIME OF PLOOR BELOW & LINE OF FLOOR SHELOW & LINE OF FLOOR BELOW & LINE OF FLOOR SHELOW & LINE OF THE SHELOW & SHELOW & LINE OF THE SHELOW & LINE OF THE SHELOW & LINE OF SHELOW & SHELOW & LINE OF SHELOW & SHELOW & LINE OF SHELOW & LINE O

PARTIAL PLAN NOTES

ELEVATION NOTES

12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE 13. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH) 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM

33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

29. FIBER-CEMENT SMOOTH BOARD SEE SPECS 30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.

31. BRACKET OR KICKER - FYPHON OR EQ.

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

43. PILASTER - SEE ELEVATION FOR TYPE

PARTIAL PLAN NO

17. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED

3. G.I. FLASHING

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL 9. DECORATIVE SHUTTERS IO. PEDIMENT. SEE ELEVATION FOR TYPE

II. RECESSED ELEMENT

18. STONE VENEER PER SPECS

20. BUILT UP BRICK COLUMN

21. SOLDIER COURSE

22. ROWLOCK COURSE

32. ENTRY DOOR

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE
41. WATER TABLE

42. ATRIUM DOOR

19. BRICK/MASONRY VENEER PER SPECS

23. FRIEZE BOARD
24. FIBER-CEMENT SIDING PER SPECS

27. LIGHT WEIGHT PRECAST STONE TRIM

28. P.T. LUMBER RAILINGS (+36" U.N.O.)

NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

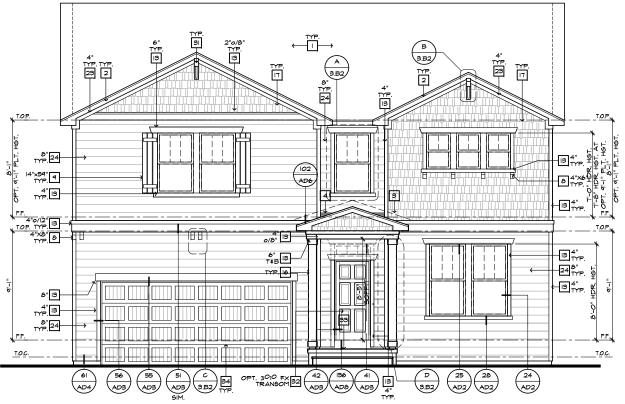
CODES

ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.: MCP SEE BELOW

DIVISION REVISION
NC2105ICNP / 08/16/21 / KBA

240.2539

3.**B**4



FRONT ELEVATION 'B' W/ CRAWL SPACE AT OPTIONAL 9'-I" PLT. HGT.

SCALE 1/4"=1'-0" (22"x34") - 1/8"=1'-0" (11"x17")



PARTIAL FRONT ELEVATION 'B' AT OPTIONAL 9'-I" PLT. HGT. W/ STONE OPT.

4"[3]-

58 AD3

65 AD4

1 F.F. T IB-TYP.

> AT OPTIONAL 9'-I" PLT. HGT. SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

|30 |30 |AD2 |TYP

5

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES

2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

3. G.I. FLASHING

4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL

9. DECORATIVE SHUTTERS IO. PEDIMENT. SEE ELEVATION FOR TYPE

II. RECESSED ELEMENT 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE

13. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH)

PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

IT. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS

18. STONE VENEER PER SPECS

19. BRICK/MASONRY VENEER PER SPECS

20. BUILT UP BRICK COLUMN

21. SOLDIER COURSE

22. ROWLOCK COURSE

23. FRIEZE BOARD
24. FIBER-CEMENT SIDING PER SPECS

25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM

27. LIGHT WEIGHT PRECAST STONE TRIM 26. P.T. LUMBER RAILINGS (+36" U.N.O.)

29. FIBER-CEMENT SMOOTH BOARD SEE SPECS

30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.

31. BRACKET OR KICKER - FYPHON OR EQ. 32. ENTRY DOOR

33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.

34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF

38. KEYSTONE 39. SOLDIER CROWN

40. JACK SOLDIER COURSE 4I. WATER TABLE

42. ATRIUM DOOR

43. PILASTER - SEE ELEVATION FOR TYPE 9'-1" PLATE OPTION

NOTE: MINDOM SIZES WILL INCREASE BY I' AT 9-1" PLATE OPTIONS. HEADER HEIGHTS FOR ALL MINDOMS WILL BE 7'-8" AT 9'-1" PLATE OPTIONS.

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING** CODES

03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.: MCP

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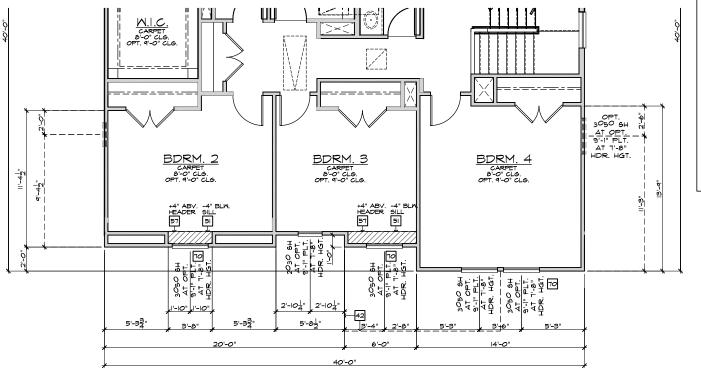
REVISIONS:

240.2539

3.**B**5

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

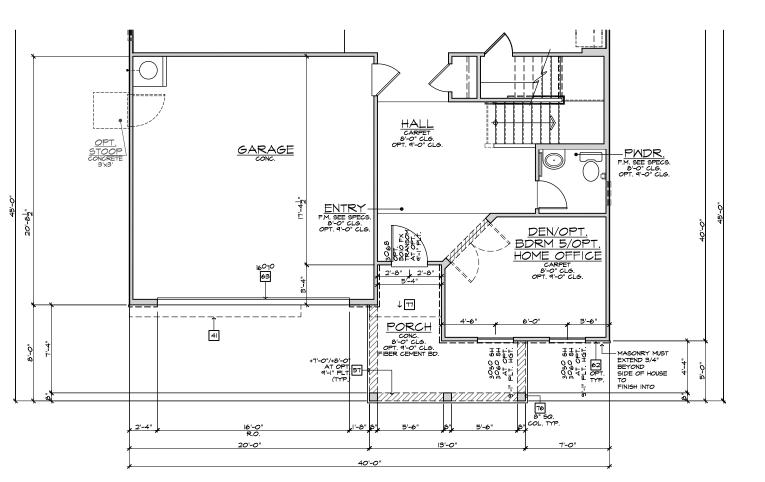
D 3.B2 5I C 3.B2 TYP. 25 28 AD2 AD2 FRONT ELEVATION 'B'



PARTIAL SECOND FLOOR PLAN 'C'

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

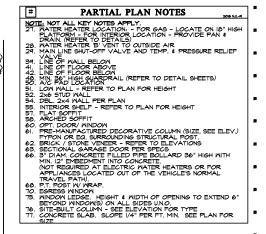
SIC PLAN



PARTIAL FIRST FLOOR PLAN 'C'

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

BASIC PLAN







NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD.

SUITE 180

DURHAM, NC 27703

TEL: (919) 768-7988

FAX: (919) 472-0582

2018 NORTH CAROLINA STATE BUILDING CODES

ISSUE DATE: 03/25/21
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PLAN: 240.2539 SHEET:

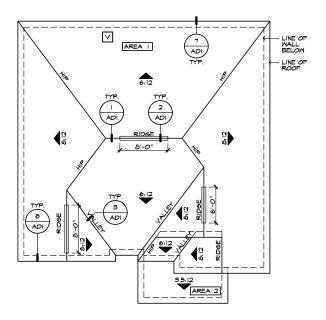
3.C1

spec. level 1

RALEIGH DURHAM

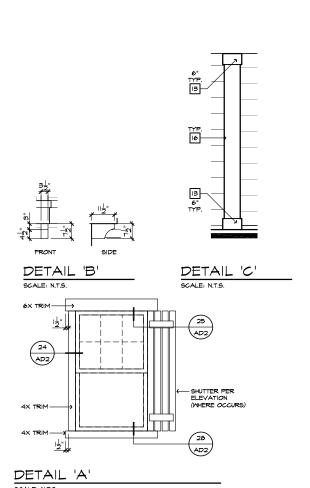
40' SERIES

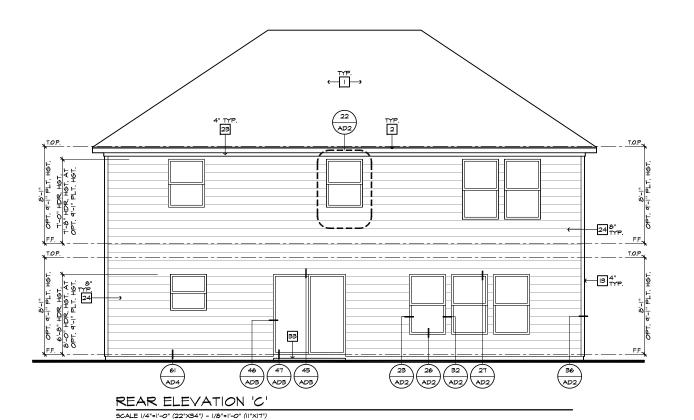
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

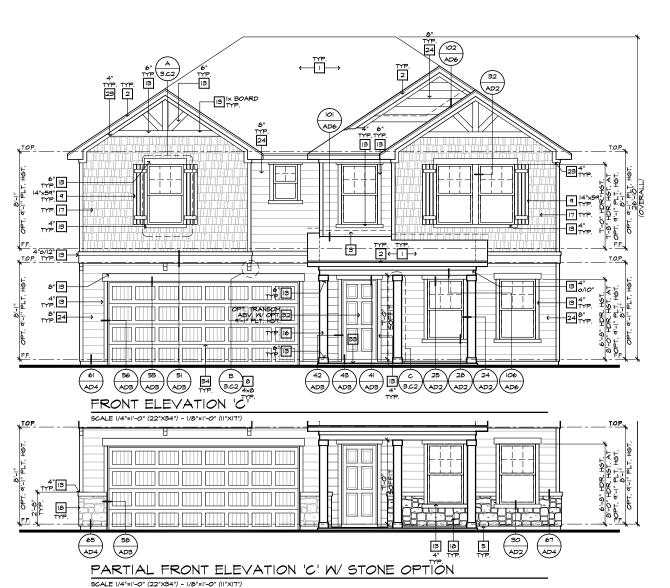


ROOF PLAN 'C'

SCALE I/8"=1'-0" (22"X34") - I/I6"=1'-0" (II"XI7")







ELEVATION NOTES NOTE: NOT ALL KEY NOTES APPLY. I. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 3. G.I. FLASHING 4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED 6. 24"x24" CHIMNEY HOME 7. DECORATIVE VENT 8. DECORATIVE CORBEL 9. DECORATIVE SHUTTERS IO. PEDIMENT. SEE ELEVATION FOR TYPE I. RECESSED ELEMENT 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE 13. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH) 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE IT. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS 18. STONE VENEER PER SPECS 19. BRICK/MASONRY VENEER PER SPECS 20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE 22. ROWLOCK COURSE

NORTH CAROLINA

40' SERIES KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703

TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH ROOF PLAN NOTES 'C' CAROLINA STATE **BUILDING** 12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. CODES

ISSUE DATE:

REVISIONS:

76 SQ. IN

DIVISION MGR.:

PROJECT No.: 1350999:56

DIVISION REVISION NC21051CNP / 08/16/21 / KBA

03/25/21

SEE BELOW

MCP

LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARWALL PANELS. ATTIC VENT CALCULATIONS

12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE. U.N.O.

23. FRIEZE BOARD
24. FIBER-CEMENT SIDING PER SPECS

27. LIGHT WEIGHT PRECAST STONE TRIM

29. FIBER-CEMENT SMOOTH BOARD SEE SPECS

31. BRACKET OR KICKER - FYPHON OR EQ.

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

43. PILASTER - SEE ELEVATION FOR TYPE

ROOF MATERIAL: COMPOSITION SHINGLE

28. P.T. LUMBER RAILINGS (+36" U.N.O.)

26. PRE-FAB DECORATIVE TRIM

32. ENTRY DOOR

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN

42. ATRIUM DOOR

40. JACK SOLDIER COURSE
41. WATER TABLE

6:12

25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE

30. DECORATIVE MINDOWDOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.

33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC
SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF
THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS
LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING)
AT 3'-O' ABOVE EAVE VENT WITH THE SALANCE BEING PROVIDED
BY EAVE VENTS, (LOW VENTING) (2018 NC.-R. 806.2)

* CALCULATION BY (1/50, HIGH/LOW VENTING) NOT REQUIRED.
APPROVINATE RIGHE VENTI (CATIONS SHOWN

INDICATES ROOF SLOPE AND DIRECTION, U.N.O.

APPROXIMATE RIDGE VENT LOCATIONS SHOWN. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD. \$0. FT. / \$00 5.14 \$0. FT.

X |44 = 740 \$0. IN.

TOTAL HIGH \$ LOW = 740 \$0. IN.

X 50% = \$70 \$0. IN. 18 SQ. IN. / LF. = 396 SQ. I 50 SQ. IN. EA. = 0 SQ. I LF RIDGE VENT(S) AT O ROOF VENT(S) AT SUB-TOTAL HIGH VENTILATION: LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = ROOF VENT(S) AT 50 SQ. IN. EA. = ROOF VENTICATED S.I.
SUB-TOTAL LOW VENTILATION: TOTAL VENTILATION PROVIDED: AREA 2 / PORCH: VENTILATION REQUIRED: 777 SQ. IN.

II LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. =
O LF RIDGE VENT(S) AT IB SQ. IN. EA. =
TOTAL VENTILATION PROVIDED:

ALL VENT OPENINGS SHALL BE COVERED WITH 1/4" CORROSION RESISTANT METAL MESH.

FRAMER SHALL BE RESPONSIBLE FOR COORDINATING WITH TRUSS MANUFACTURER TO ACCOMMODATE ALL ATTIC VENTS. ALL VENTS SHALL BE INSTALLED SO AS TO MAKE THEM WATER-PROOF & WALL MOUNTED LOVVERS SHALL BE SEALED & FLASHED WY MOISTOP IN THE SAME MANNER PRESCRIBED FOR MINDOW INSTALLATION.

PROVIDE APPROVED INSULATION DAMS (BAFFLES) WHERE VENT BLOCKES ARE USED BETWEEN ROOF FRAMING MENTERS TO PREVENT VENT HOLES FROM BEING BLOCKED BY INSULATION.

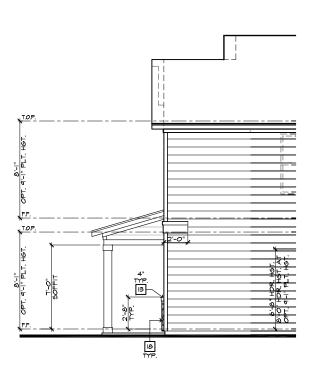
LOCATE HIGH VENTING MINIMUM 3'-O" VERTICAL DISTANCE ABOVES.

MHEN GABLE END TRUSS MEMBERS BLOCK GABLE END VENTS, PROVIDE ADEQUATE ADDITIONAL VENTILATION BY MEANS OF ROOF TILE VENTS.

240.2539 HEET:

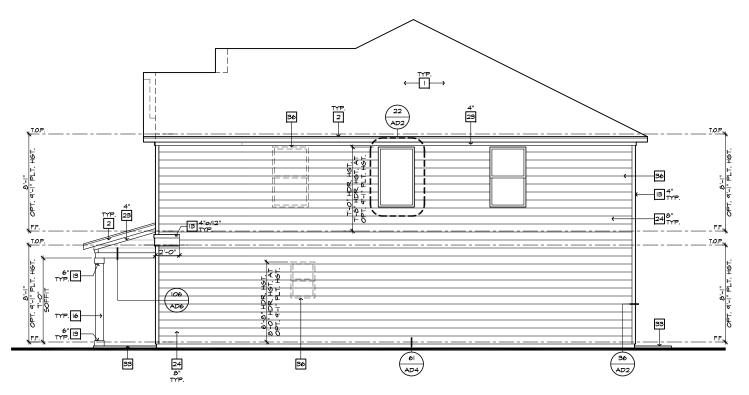
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

3.C2



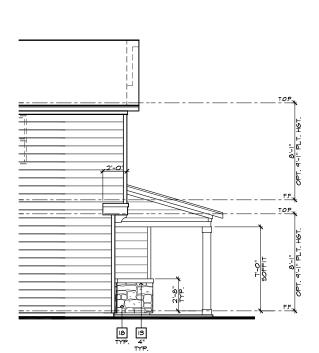
PARTIAL RIGHT ELEVATION 'C' W/ STONE OPTION

SCALE I/4"=I'-O" (22"X34") - I/8"=I'-O" (II"XI7")



RIGHT ELEVATION 'C'

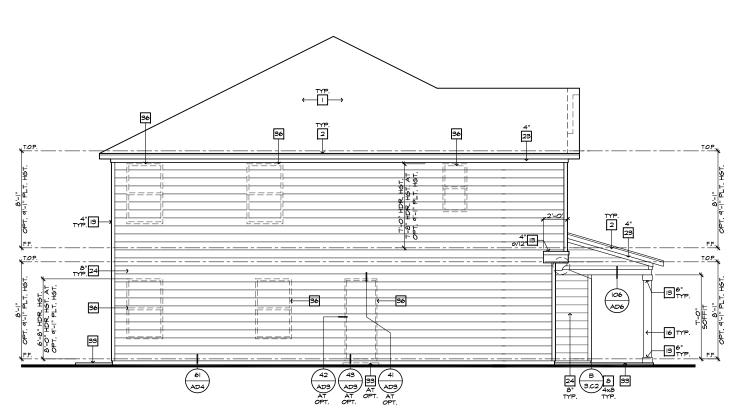
SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")



PARTIAL LEFT ELEVATION 'C' W/ STONE OPTION

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

LEFT ELEVATION 'C'



ELEVATION NOTES

- NOTE: NOT ALL KEY NOTES APPLY.

 I. ROOF MATERIAL REFER TO ROOF NOTES
- 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
- 3. G.I. FLASHING
- 4. G.I. FLASHING & SADDLE/CRICKET
 5. G.I. DRIP SCREED
- 6. 24"x24" CHIMNEY 7. DECORATIVE VENT
- 8. DECORATIVE CORBEL
- 9. DECORATIVE SHUTTERS
- IO. PEDIMENT. SEE ELEVATION FOR TYPE
- II. RECESSED ELEMENT 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
- 13. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH)
- PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
- 16. SITE-BUILT COLUMN SEE ELEVATION FOR TYPE
- 17. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS
- 18. STONE VENEER PER SPECS
- 19. BRICK/MASONRY VENEER PER SPECS
- 20. BUILT UP BRICK COLUMN
- 21. SOLDIER COURSE
- 22. ROWLOCK COURSE
- 23. FRIEZE BOARD
 24. FIBER-CEMENT SIDING PER SPECS
- 25. P.T. POST W WRAP SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM
- 27. LIGHT WEIGHT PRECAST STONE TRIM
- 26. P.T. LUMBER RAILINGS (+36" U.N.O.)
- 29. FIBER-CEMENT SMOOTH BOARD SEE SPECS
- 30. DECORATIVE WINDOW/DOOR TRIM FYPON OR EQ. SEE ELEVATION FOR SIZE.
- 31. BRACKET OR KICKER FYPHON OR EQ. 32. ENTRY DOOR
- 33. CONCRETE STOOP/ PORCH SEE SLAB INTERFACE PLAN.
- 34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP
- 36. OPTIONAL DOOR/MINDOM REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF
- 38. KEYSTONE 39. SOLDIER CROWN
- 40. JACK SOLDIER COURSE
 41. WATER TABLE
- 43. PILASTER SEE ELEVATION FOR TYPE





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 . FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE** BUILDING CODES

03/25/21 ISSUE DATE: PROJECT No.: 1350999:56 DIVISION MGR.: MCP

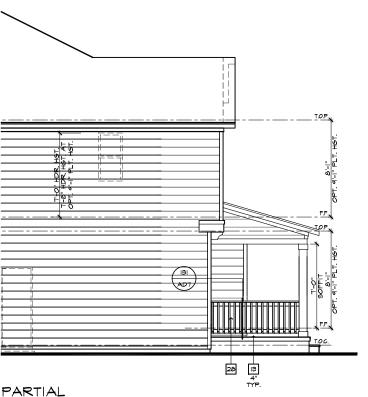
DIVISION REVISION
NC21051CNP / 08/16/21 / KBA

SEE BELOW

REVISIONS:

240.2539

3.C3



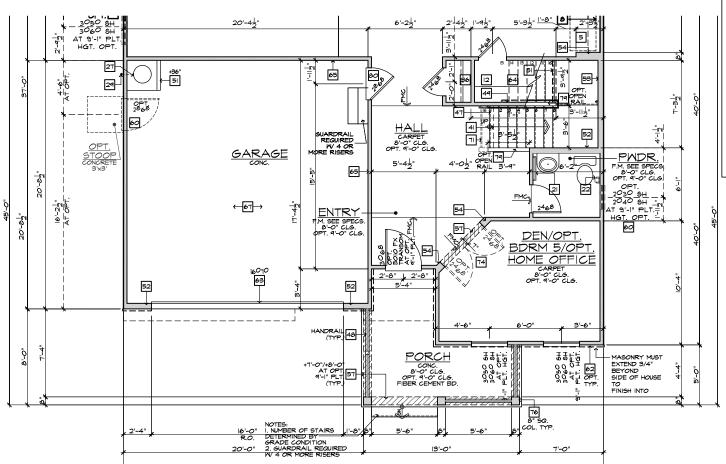
SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

LEFT ELEVATION 'C' AT CRAWL SPACE

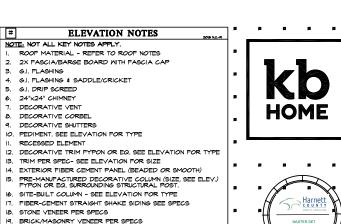


FRONT ELEVATION 'C' W/ CRAWL SPACE

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")



PARTIAL FIRST FLOOR PLAN 'C' AT CRAWL SPACE



NORTH CAROLINA 40' SERIES

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2018 NORTH **CAROLINA STATE BUILDING**

CODES

3. G.I. FLASHING

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL

I. RECESSED ELEMENT

20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE

23. FRIEZE BOARD
24. FIBER-CEMENT SIDING PER SPECS

27. LIGHT WEIGHT PRECAST STONE TRIM

31. BRACKET OR KICKER - FYPHON OR EQ. 32. ENTRY DOOR

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

43. PILASTER - SEE ELEVATION FOR TYPE

PARTIAL PLAN NO

28. P.T. LUMBER RAILINGS (+36" U.N.O.) 29. FIBER-CEMENT SMOOTH BOARD SEE SPECS

25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM

30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.

33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.

PARTIAL PLAN NOTES

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

22. ROWLOCK COURSE

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE
41. WATER TABLE

42. ATRIUM DOOR

9. DECORATIVE SHUTTERS

PARTIAL PLAN NOTES

***DOTE: NOT ALL KEY NOTES APPLY
27. MATTER HEATER LOCATION: - FOR GAS - LOCATE ON 18" HIGH PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4 HOP PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4 HOP PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4 HOP PLATFORM - FOR INTERIOR SUPPLY OF PROVIDE PAN 4 HIGH PLATFORM - FOR INTERIOR SUPPLY OF PALVE AND TEMP. 4 PRESSURE RELIEF

39. LINE OF MALL BELOW
41. LINE OF FLOOR BELOW
41. LINE OF FLOOR BELOW
42. LINE OF FLOOR BELOW
43. LINE OF FLOOR BELOW
43. LINE OF FLOOR BELOW
45. MIN SUPPLY OF PALVE FOR THE HIGHT
55. LOW WALL - REFER TO PLAN FOR HEIGHT
56. MIN SUPPLY OF THE PAN
56. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT
57. FLAT SOFFIT
60. OF THE DOOR HINDOW
61. FLAT SOFFIT
60. OF THE DOOR HINDOW
61. FLAT SOFFIT
62. BRICK / STONE VENEER - REFER TO ELEVATIONS
63. SECTIONAL GARAGE DOOR FER SPECS
64. SECTIONAL GARAGE DOOR FER SPECS
65. SECTIONAL GARAGE DOOR FER SPECS
66. SECTIONAL GARAGE DOOR FER SPECS
66. SECTIONAL GARAGE DOOR FOR SPECS FOR APPLIANCES LOCATED OUT OF THE VEHICLES NORMAL
MIN IZE * PMBEDMENT INTO CONCRETE.
NOT REQUIRED AT ELECTRIC WATER HEATERS OR FOR APPLIANCES LOCATED OUT OF THE VEHICLES NORMAL
FOR THE STANKAP.
69. ETASSES INNOON
75. MINDON LEDGE, HEIGHT & MIDTH OF OPENING TO EXTEND 6"
BEYOND MINDOWS) ON ALL SIDES UND.
76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
77. CONCRETE SLAB, SLOPE I/4" PER FT. MIN. SEE PLAN FOR
SIZE

ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.: SEE BELOW

DIVISION REVISION
NC2105ICNP / 08/16/21 / KBA

MCP

240.2539

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE

3.C4



FRONT ELEVATION 'C' W/ CRAWL SPACE AT OPTIONAL 9'-1" PLT. HGT.

SCALE 1/4"=1'-0" (22"×34") - 1/8"=1'-0" (11"×17")

30 AD2

TYP.

6" TYP. 102 AD6 $\longleftarrow \stackrel{\text{TYP.}}{\square} \longrightarrow$ 17P. TYP. -I3 IX BOARD 4"x59" [9]-TYP.[17]-**₩**.[3] 3 - TYP. TYP. - 2 ← 1 → 13 4" 0/10" 8"[B]-OPT. 3010 EX 32 13 4" TYP. 24 5" K τγ<mark>ρ</mark>"[24]— TP. 16 33 **F** [3] 6l AD4 56 AD3 AD3 AD3 AD3

PARTIAL FRONT ELEVATION 'C' AT OPTIONAL 9'-I" PLT. HGT. W/ STONE OPT. SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

, ⁴"[3]—

5ð AD3

65 AD4

ELEVATION NOTES

- NOTE: NOT ALL KEY NOTES APPLY.

 I. ROOF MATERIAL REFER TO ROOF NOTES
- 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
- 3. G.I. FLASHING
- 4. G.I. FLASHING & SADDLE/CRICKET
 5. G.I. DRIP SCREED
- 6. 24"x24" CHIMNEY 7. DECORATIVE VENT
- 8. DECORATIVE CORBEL 9. DECORATIVE SHUTTERS
- IO. PEDIMENT. SEE ELEVATION FOR TYPE
- RECESSED ELEMENT 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
- 13. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH)
- 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
- 16. SITE-BUILT COLUMN SEE ELEVATION FOR TYPE
- IT. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS
- 18. STONE VENEER PER SPECS
- 19. BRICK/MASONRY VENEER PER SPECS
- 21. SOLDIER COURSE 22. ROWLOCK COURSE
- 23. FRIEZE BOARD
 24. FIBER-CEMENT SIDING PER SPECS
- 25. P.T. POST W WRAP SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM

- 27. LIGHT WEIGHT PRECAST STONE TRIM
 28. P.T. LUMBER RAILINGS (+36" U.N.O.)
- 29. FIBER-CEMENT SMOOTH BOARD SEE SPECS
- 30. DECORATIVE WINDOW/DOOR TRIM FYPON OR EQ. SEE ELEVATION FOR SIZE.
- 31. BRACKET OR KICKER FYPHON OR EQ. 32. ENTRY DOOR
- 33. CONCRETE STOOP/ PORCH SEE SLAB INTERFACE PLAN.
- 34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP
- 36. OPTIONAL DOOR/WINDOW REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF
- 38. KEYSTONE 39. SOLDIER CROWN
- 40. JACK SOLDIER COURSE 41. WATER TABLE
- 42. ATRIUM DOOR
- 43. PILASTER SEE ELEVATION FOR TYPE

9'-1" PLATE OPTION

NOTE: MINDOM SIZES WILL INCREASE BY I' AT 9-1" PLATE OPTIONS. HEADER HEIGHTS FOR ALL MINDOMS WILL BE 7'-8" AT 9'-1" PLATE OPTIONS.

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE** BUILDING CODES

PROJECT No.: 1350999:56 DIVISION MGR.:

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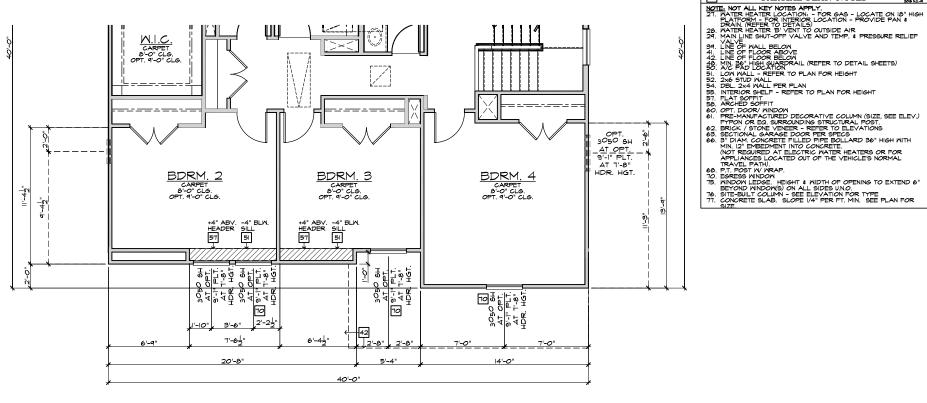
DIVISION REVISION NC21051CNP / 08/16/21 / KBA

REVISIONS:

240.2539 3.C5

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

FRONT ELEVATION 'C' AT OPTIONAL 9'-I" PLT. HGT.

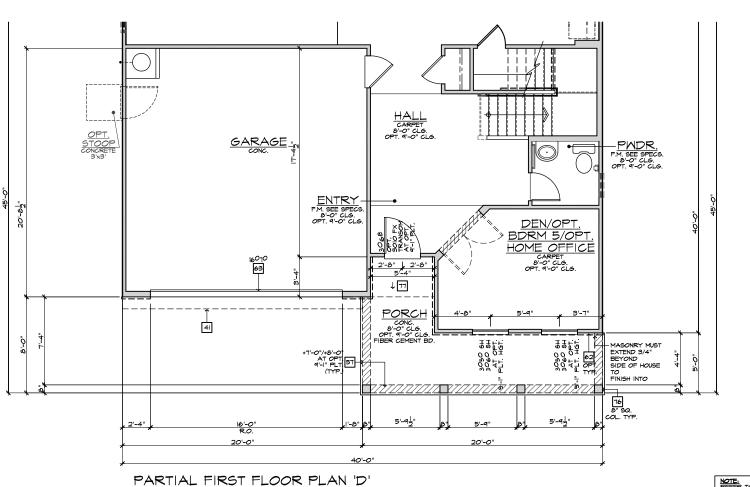


PARTIAL SECOND FLOOR PLAN 'D' SCALE 1/4"=1"-O" (22"X34") - 1/9"=1"-O" (11"X17")

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

ASIC PLAN

BASIC PLAN



NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE kb HOME

PARTIAL PLAN NOTES



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD.

SUITE 180

DURHAM, NC 27703

TEL: (919) 768-7988

FAX: (919) 472-0582

2018 NORTH CAROLINA STATE BUILDING CODES

ISSUE DATE: 03/25/21
PROJECT No.: 1350999:56
DIVISION MGR.: MCP

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REVISIONS:

SEE BELOW B

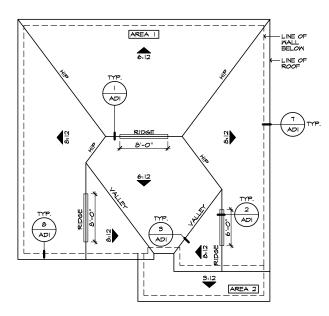
PLAN: 240.2539

3.D1

SPEC. LEVEL 1

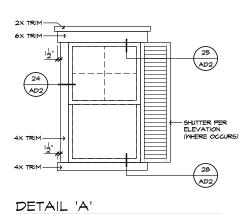
RALEIGH-DURHAM

40' SERIES

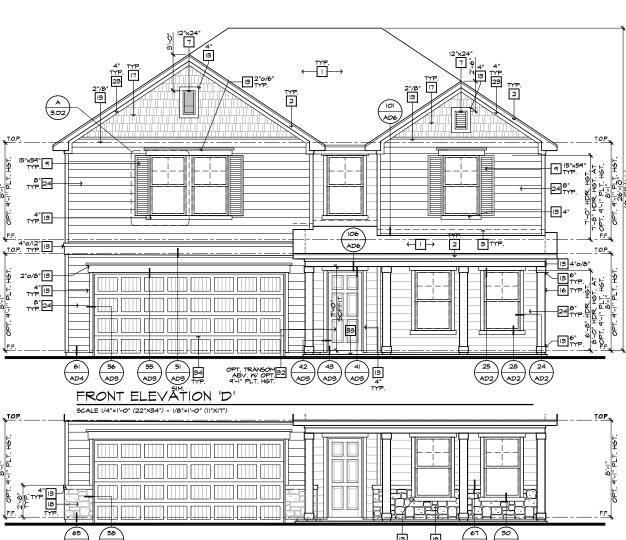


ROOF PLAN 'D'

SCALE I/8"=1'-0" (22"X34") - I/I6"=1'-0" (II"XI7")







HOME 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE 13. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH) PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. IT. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS 18. STONE VENEER PER SPECS



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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2018 NORTH CAROLINA STATE **BUILDING** CODES

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ISSUE DATE:

PROJECT No.: 1350999:56 DIVISION MGR.:

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INDICATES ROOF SLOPE AND DIRECTION, U.N.O. 6:12

ROOF PLAN NOTES 'D'

33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

4. G.I. FLASHING & SADDLE/CRICKET
5. G.I. DRIP SCREED

IO. PEDIMENT. SEE ELEVATION FOR TYPE

19. BRICK/MASONRY VENEER PER SPECS

24. FIBER-CEMENT SIDING PER SPECS

27. LIGHT WEIGHT PRECAST STONE TRIM 28. P.T. LUMBER RAILINGS (+36" U.N.O.)

26. PRE-FAB DECORATIVE TRIM

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE

29. FIBER-CEMENT SMOOTH BOARD SEE SPECS 30. DECORATIVE MINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.

31. BRACKET OR KICKER - FYPHON OR EQ.

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

43. PILASTER - SEE ELEVATION FOR TYPE

3. G.I. FLASHING

6. 24"x24" CHIMNEY

7. DECORATIVE VENT

8. DECORATIVE CORBEL

I. RECESSED ELEMENT

20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE 22. ROWLOCK COURSE

23. FRIEZE BOARD

32 ENTRY DOOR

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE

41 WATER TABLE

42. ATRIUM DOOR

9. DECORATIVE SHUTTERS

ROOF MATERIAL: COMPOSITION SHINGLE 12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O.

12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE. UN.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARMALL PANELS.

ATTIC VENT CALCULATIONS

PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING) AT 3'-0' ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED BY EAVE VENTS, (LOW VENTING) (2016 N.C.-R. 906.2) **
CALCULATION BY 1/150, HIGH/LOW VENTING NOT REQUIRED.

AREA I /	MAIN:			
VENTILA:	TION REQUIRED:			
ATTIC AREA = 1542			50. FT. / 300	5.14 SQ. F
			× 144 =	740 SQ. 11
		TOT	AL HIGH & LOW =	740 SQ. 11
			× 50% =	370 SQ. 11
VENTILA	TION PROVIDED:			
HIGH				
22	LF RIDGE VENT(S) AT	18	5Q. IN. / LF. =	396 SQ. 11
0	ROOF VENT(S) AT	50	5Q. IN. EA. =	0 SQ. 11
SUB-TO	TAL HIGH VENTILATION:			396 SQ. 11
LOW				
58	LF VENTILATED SOFFIT AT	6.9	5Q. IN. / LF. =	400 SQ. 11
0	ROOF VENT(S) AT	50	5Q. IN. EA. =	0 SQ. 11
SUB-TO	TAL LOW VENTILATION:			400 SQ. 11
TOTAL V	ENTILATION PROVIDED:			796 SQ. 11
AREA 2	/ PORCH:			
VENTILA:	TION REQUIRED:			
ATTIC AF	REA = 117		50. FT. / 150	0.78 SQ. F
			× 144 =	112 SQ. 11
		тот	AL HIGH & LOW =	112 SQ. 11

(17) LF YENTILATED SOFFIT AT 6.4 SQ. IN, / LF. = 117 SQ. IN
(0) LF RIDGE YENT(S) AT 16 SQ. IN, EA. = 0 SQ. IN, EA. = 0 SQ. IN, EA. = 117 SQ. IN

ALL VENT OPENINGS SHALL BE COVERED WITH 1/4" CORROSION RESISTANT METAL MESH.

FRAMER SHALL BE RESPONSIBLE FOR COORDINATING WITH TRUSS MANUFACTURER TO ACCOMMODATE ALL ATTIC VENTS. ALL VENTS SHALL BE INSTALLED SO AS TO MAKE THEM MATER-PROOF & WALL MOUNTED LOVERS SHALL BE SEALED & FLASHED WY MOISTOP IN THE SAME MANNER PRESCRIBED FOR MINDOW INSTALLATION.

PROVIDE APPROVED INSULATION DAMS (BAFFLES) WHERE VENT BLOCKS ARE USED BETWEEN ROOF FRAMING MEMBERS TO PREVENT VENT HOLES FROM BEING BLOCKED BY INSULATION.

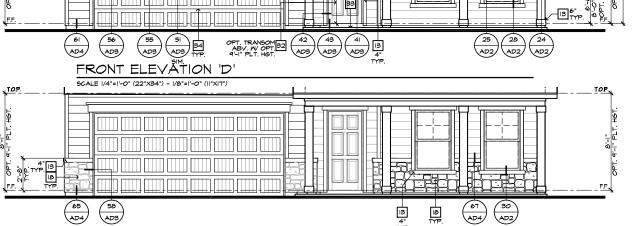
LOCATE HIGH VENTING MINIMUM 3'-0" VERTICAL DISTANCE ABO EAVES.

MHEN GABLE END TRUSS MEMBERS BLOCK GABLE END VENTS PROVIDE ADEQUATE ADDITIONAL VENTILATION BY MEANS OF ROOF TILE VENTS.

240.2539 SHEET:

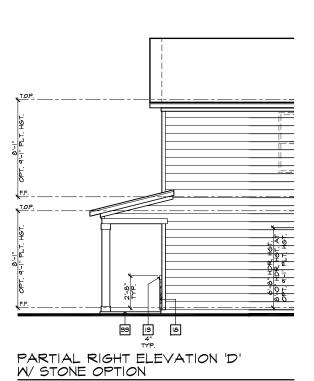
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

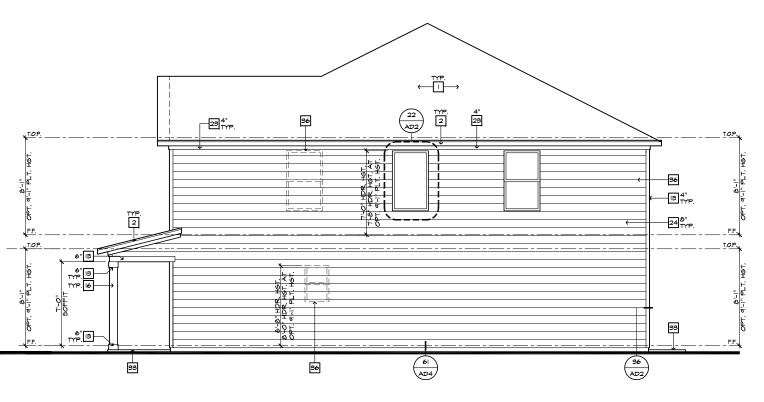
3.D2



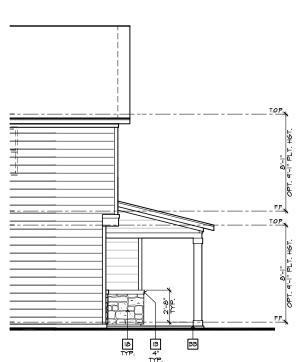
PARTIAL FRONT ELEVATION 'D' W/ STONE OFTION

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")



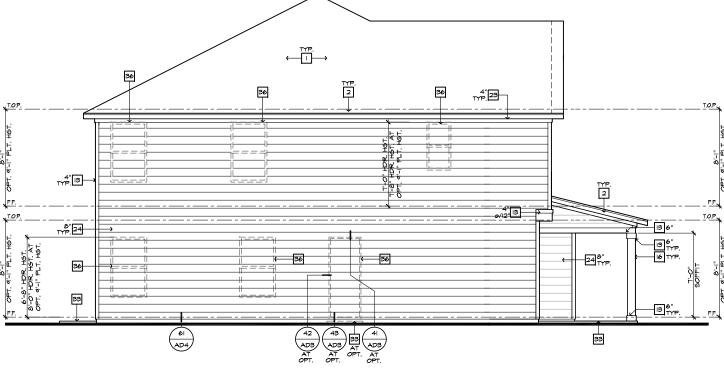


RIGHT ELEVATION 'D'



PARTIAL LEFT ELEVATION 'D' W/ STONE OPTION

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")



ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES

2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

3. G.I. FLASHING
4. G.I. FLASHING & SADDLE/CRICKET
5. G.I. DRIP SCREED

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL

9. DECORATIVE SHUTTERS

IO. PEDIMENT. SEE ELEVATION FOR TYPE

II. RECESSED ELEMENT 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE

13. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH)

15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS
 STONE VENEER PER SPECS
 BRICK/MASONRY VENEER PER SPECS

20. BUILT UP BRICK COLUMN

21. SOLDIER COURSE 22. ROWLOCK COURSE

23. FRIEZE BOARD
24. FIBER-CEMENT SIDING PER SPECS

25. P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE

26. PRE-FAB DECORATIVE TRIM

27. LIGHT WEIGHT PRECAST STONE TRIM

28. P.T. LUMBER RAILINGS (+36" U.N.O.) 29. FIBER-CEMENT SMOOTH BOARD SEE SPECS

30. DECORATIVE WINDOWDOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.

31. BRACKET OR KICKER - FYPHON OR EQ.

32 ENTRY DOOR

33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.

34. SECTIONAL GARAGE DOOR PER SPECS

35. ALUMINUM WRAP

36. OPTIONAL DOOR/MINDOM - REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF

38. KEYSTONE 39. SOLDIER CROWN

40. JACK SOLDIER COURSE
41. WATER TABLE

42. ATRIUM DOOR 43. PILASTER - SEE ELEVATION FOR TYPE **KD** HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 • FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE** BUILDING CODES

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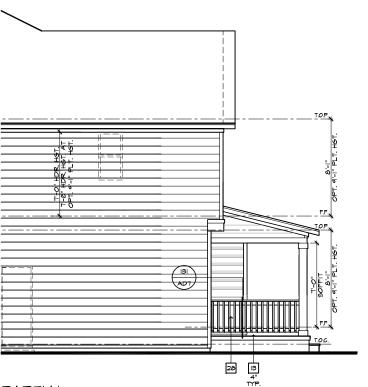
DIVISION MGR.:

240.2539

3.**D**3

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

LEFT ELEVATION 'D' SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

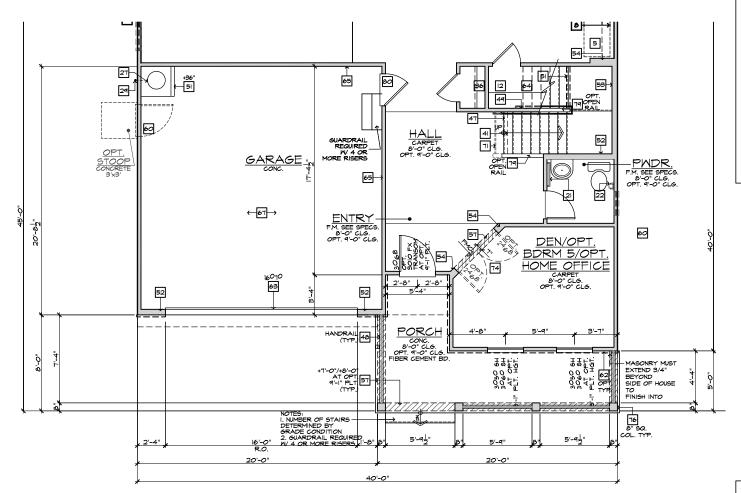


PARTIAL LEFT ELEVATION 'D' AT CRAWL SPACE SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")



FRONT ELEVATION 'D' W/ CRAWL SPACE

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")



PARTIAL FIRST FLOOR PLAN 'D' AT CRAWL SPACE

SCALE I/4"=I'-O" (22"X34") - I/8"=I'-O" (II"XI7")



2018 NORTH **CAROLINA STATE BUILDING** CODES 2. LINE OF FLOOR BELOW 3. MIN 360 FLOOR SELOW 3. MIN 360 FLOOR SETTING SETTING 4. DEL. 2x4 MALL - REFER TO PLAN FOR HEIGHT 2. 2x6 STUD WALL 4. DEL. 2x4 MALL PER PLAN 5. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT 7. FLAT SOFFIT 9. ARCHED SOFFIT 9. ARCHED SOFFIT 9. OPT. DOOR! MINDOW 1. PRE-MANDHACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) 1. PRE-MANDHACTURED DOOR FER SPELS 1. SECTIONAL GARAGE DOOR FER SPELS 1. SECTIONAL GARAGE DOOR FER SPELS 1. MIN CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH 1. MIN. 12" EMBEDDMENT INTO CONCRETE. 1. (NOT REQUIRED AT ELECTRIC WATTER HEATERS OR FOR APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL 1. TRAVEL PATH). 1. ESRESS MINDOW 1. PRE-MANDHACTURED WAS ARRESTED WAS 1. SETTING WARP. 2. ESRESS MINDOWN 3. PRE-MANDHACTURED WAS 3. SETTING WAS ARRESTED WAS 3. SETTING WAS ARRESTED WAS 4. SETTING WAS ARRESTED WAS 4. SETTING WAS ARRESTED WAS 5. SETTING WAS 5. SETTI

ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.: MCP

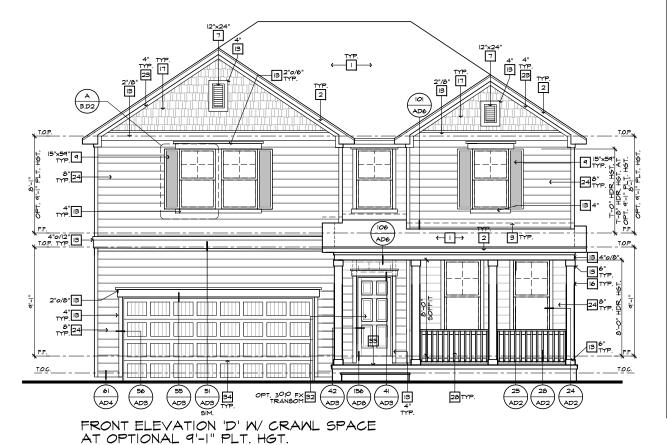
DIVISION REVISION
NC2105ICNP / 08/16/21 / KBA

SEE BELOW



SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE



ELEVATION NOTES

- NOTE: NOT ALL KEY NOTES APPLY.

 I. ROOF MATERIAL REFER TO ROOF NOTES
- 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
- 3. G.I. FLASHING
- 4. G.I. FLASHING & SADDLE/CRICKET
 5. G.I. DRIP SCREED

- 6. 24"x24" CHIMNEY 7. DECORATIVE VENT
- 8. DECORATIVE CORBEL
- 9. DECORATIVE SHUTTERS IO. PEDIMENT. SEE ELEVATION FOR TYPE
- II. RECESSED ELEMENT 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
- 13. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH)
- 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
- 16. SITE-BUILT COLUMN SEE ELEVATION FOR TYPE
- IT. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS 18. STONE VENEER PER SPECS
- 19. BRICK/MASONRY VENEER PER SPECS

- 21. SOLDIER COURSE 22. ROWLOCK COURSE
- 23. FRIEZE BOARD
 24. FIBER-CEMENT SIDING PER SPECS
- 25. P.T. POST W WRAP SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM
- 27. LIGHT WEIGHT PRECAST STONE TRIM
- 26. P.T. LUMBER RAILINGS (+36" U.N.O.)
- 29. FIBER-CEMENT SMOOTH BOARD SEE SPECS
- 30. DECORATIVE WINDOW/DOOR TRIM FYPON OR EQ. SEE ELEVATION FOR SIZE.
- 31. BRACKET OR KICKER FYPHON OR EQ. 32. ENTRY DOOR
- 33. CONCRETE STOOP/ PORCH SEE SLAB INTERFACE PLAN.
- 34. SECTIONAL GARAGE DOOR PER SPECS
- 35. ALUMINUM WRAP
- 36. OPTIONAL DOOR/WINDOW REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF
- 38. KEYSTONE 39. SOLDIER CROWN
- 40. JACK SOLDIER COURSE 41. WATER TABLE
- 42. ATRIUM DOOR
- 43. PILASTER SEE ELEVATION FOR TYPE

9'-1" PLATE OPTION

NOTE: MINDOM SIZES WILL INCREASE BY I' AT 9-1" PLATE OPTIONS. HEADER HEIGHTS FOR ALL MINDOMS WILL BE 7'-8" AT 9'-1" PLATE OPTIONS.

HOME

NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING** CODES

PROJECT No.: 1350999:56

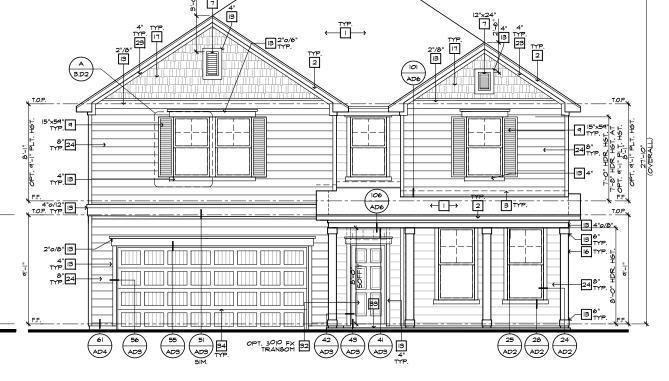
MCP

SEE BELOW

DIVISION REVISION NC21051CNP / 08/16/21 / KBA

DIVISION MGR.:

REVISIONS:



PARTIAL FRONT ELEVATION 'D' AT OPTIONAL 9'-I" PLT. HGT. W/ STONE OPT. SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

4" |3 | 177 | 18 | 17 | 17 | 18

58 ADB

65 AD4

FRONT ELEVATION 'D' AT OPTIONAL 9'-I" PLT. HGT.

SCALE 1/4"=1'-0" (22"×34") - 1/8"=1'-0" (11"×17")

67 AD4 30 AD2

13 4" TYP

240.2539

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

3.D5



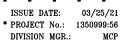


NORTH CAROLINA 40' SERIES

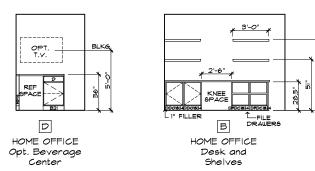
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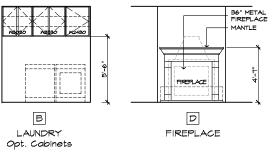
2018 NORTH **CAROLINA STATE** BUILDING CODES



REVISIONS: SEE BELOW DIVISION REVISION
NC21051CNP / 08/16/21 / KBA

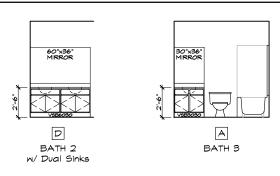


MISC. ELEVATIONS

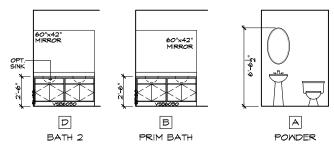




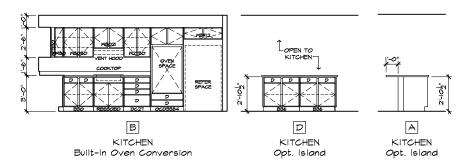
MISC. ELEVATIONS



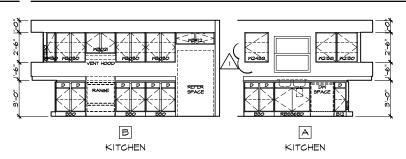
MISC. ELEVATIONS



BATH ELEVATIONS



BATH ELEVATIONS



KITCHEN ELEVATIONS

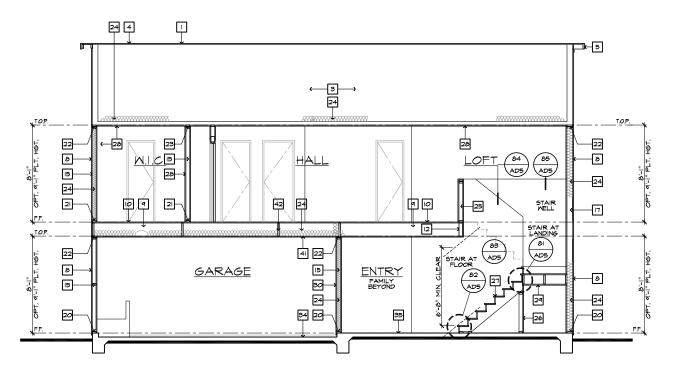
SCALE: 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"XIT")

OPTIONAL INTERIOR ELEVATIONS

KITCHEN ELEVATIONS

INTERIOR ELEVATIONS SCALE: I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

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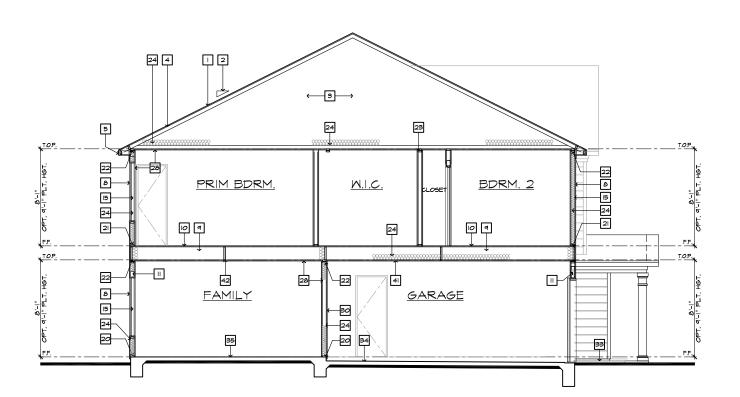


SECTION "A"

SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

AT SLAB-ON-GRADE

AT SLAB-ON-GRADE



SECTION "B"

SCALE |/4"=1'-0" (22"X34") - |/8"=1'-0" (||"X|7")

SECTION NOTES

ROOF MATERIAL - REFER TO ROOF NOTES

ROOF PITCH - REFER TO ROOF NOTES PRE-MANUFACTURED WOOD ROOF TRUSS SYSTEM - SEE STRUCTURAL & TRUSS CALCS

4. ROOF SHEATHING PER STRUCTURAL

5. 2x FASCIA/BARGE BOARD

6. CONT. SOFFITED EAVE W/ VENTING

7. G.I. FLASHING - ROOF TO WALL 8. EXTERIOR FINISH PER ELEVATIONS

9. FLOOR FRAMING PER STRUCTURAL
IO. FLOOR SHEATHING PER STRUCTURAL

II. HEADER PER STRUCTURAL 12. FLUSH BEAM PER STRUCTURAL

13. DROPPED BEAM PER STRUCTURAL

14. FLAT/ ARCHED SOFFIT PER PLAN 15. 2x4 STUD WALL

17. 2x6 BALLOON FRAMED WALL PER STRUCTURAL

16. 2x6 STUD WALL

I8. DBL. 2x4 WALL PER PLAN 19. 2x CRIPPLES @ 16" O.C.

20. 2x PRESSURE TREATED SILL PLATE

2I. 2x SOLE PLATE 22. DBL. 2x TOP PLATE @ EXTERIOR & BEARING WALLS

23. IX OVER 2X TOP PLATE @ INTERIOR & NON-BEARING WALLS

24. INSULATION MATERIAL PER ENERGY CALCULATIONS 25. MIN. 36" HIGH GUARD - SEE PLAN FOR HEIGHT

26. LOW MALL - SEE PLAN FOR HEIGHT

27. STAIR TREADS AND RISERS PER PLAN: - MIN. IO" TREAD & MAX. 7 3/4" RISER

28. INTERIOR FINISH: - MIN. 1/2" GYP. BD. @ WALLS & SAG RESISTANT OR 5/8" DRYWALL @ CEILING 29. MIN. 1/2" GYP. BD. ON CEILING & WALLS @ USEABLE SPACE UNDER STAIRS.

30. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. .. GARAGE SIDE WALLS & 150" UNDER LIVING AREA UN.

31. MATERIAL TO UNDERSIDE OF ROOF SHEATHING

32. INTERIOR SHELF - MIN. I/2" GYP. BD. OVER 3/8" PLY WD.

33. CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - SLOPE I/4" PER FT. MIN.

34. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN.

35. CONCRETE FOUNDATION PER STRUCTURAL 36. LINE OF OPTIONAL TRAY CEILING/ STEP CEILING

37. LINE OF OPTIONAL VOLUME CEILING

38. PROFILE OF OPTIONAL COVERED PATIO 39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS

40. 8" BLOCK WALL

41. 5/8" TYPE-X DRYWALL @ GARAGE CEILING

CEILING

2. WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE
CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A
SIGNLE-FAMILY DIRELLING, DRAFT STOPS SHALL BE INSTALLE;
SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT
EXCEED 1,000 SQUARE FEET, DRAFTSTOPPING SHALL DIVIDE
THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS,

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

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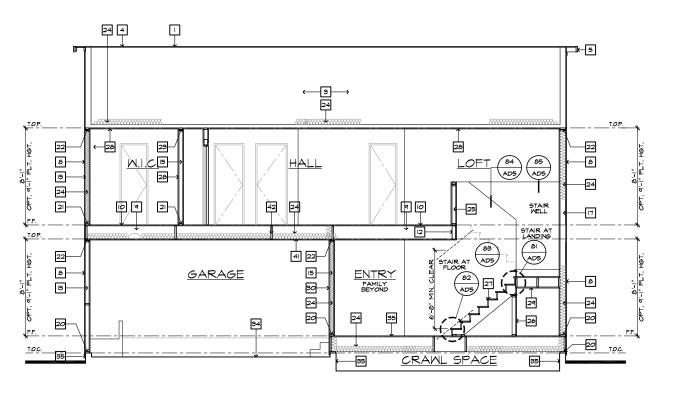
ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.:

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DIVISION REVISION
NC21051CNP / 08/16/21 / KBA

REVISIONS:

240.2539

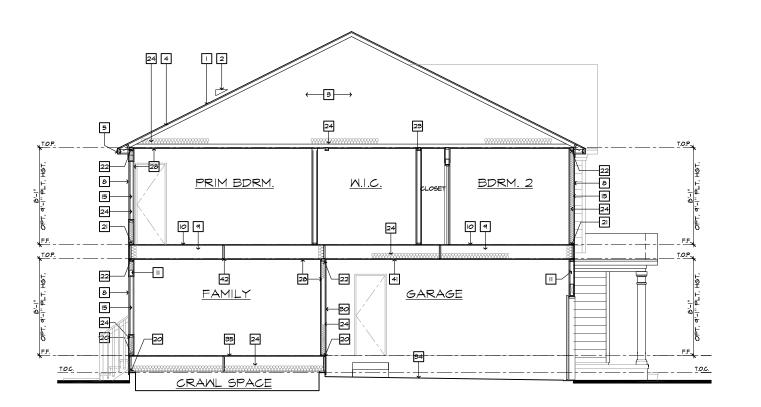


SECTION "A"

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

AT CRAWL SPACE

AT CRAWL SPACE



SECTION "B"

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XIT")

SECTION NOTES

SECTION 1
NOTE: NOT ALL KEY NOTES APPLY.

ROOF MATERIAL - REFER TO ROOF NOTES 2. ROOF PITCH - REFER TO ROOF NOTES

PRE-MANUFACTURED WOOD ROOF TRUSS SYSTEM - SEE STRUCTURAL & TRUSS CALCS

4. ROOF SHEATHING PER STRUCTURAL

5. 2x FASCIA/BARGE BOARD

6. CONT. SOFFITED EAVE W/ VENTING

G.I. FLASHING - ROOF TO WALL

8. EXTERIOR FINISH PER ELEVATIONS 1. FLOOR FRAMING PER STRUCTURAL

IO. FLOOR SHEATHING PER STRUCTURAL

II. HEADER PER STRUCTURAL

12. FLUSH BEAM PER STRUCTURAL IS. DROPPED BEAM PER STRUCTURAL

14. FLAT/ ARCHED SOFFIT PER PLAN

15. 2x4 STUD WALL

16. 2x6 STUD WALL

17. 2x6 BALLOON FRAMED WALL PER STRUCTURAL

18. DBL. 2x4 WALL PER PLAN

19. 2x CRIPPLES @ 16" O.C. 20. 2x PRESSURE TREATED SILL PLATE

2I. 2x SOLE PLATE

22. DBL. 2x TOP PLATE @ EXTERIOR & BEARING WALLS

23. IX OVER 2X TOP PLATE @ INTERIOR & NON-BEARING WALLS 24. INSULATION MATERIAL PER ENERGY CALCULATIONS

25. MIN. 36" HIGH GUARD - SEE PLAN FOR HEIGHT 26. LOW WALL - SEE PLAN FOR HEIGHT

27. STAIR TREADS AND RISERS PER PLAN: - MIN. IO" TREAD & MAX. 7 3/4" RISER

28. INTERIOR FINISH: - MIN. 1/2" GYP. BD. @ MALLS & SAG RESISTANT OR 5/8" DRYMALL @ CEILING

29. MIN. 1/2" GYP. BD. ON CEILING & WALLS @ USEABLE SPACE UNDER STAIRS. 30. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT I/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O.

31. MATERIAL TO UNDERSIDE OF ROOF SHEATHING 32. INTERIOR SHELF - MIN. I/2" GYP. BD. OVER 3/8" PLY WD.

33. CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - SLOPE I/4" PER FT. MIN.

34. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN.

35. CONCRETE FOUNDATION PER STRUCTURAL

36. LINE OF OPTIONAL TRAY CEILING STEP CEILING

37. LINE OF OPTIONAL VOLUME CEILING
38. PROFILE OF OPTIONAL COVERED PATIO

39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS

40. 8" BLOCK WALL

CEILING

2, WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE
CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A
SINGLE-FAMILY DWILLING, DRAFT STOPPS SHALL BE INSTALLET
SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT
EXCEED JOOD SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE
THE CONCEALED SPACE INTO APPROXIMATELY EGGIAL AREAS.

HOME



NORTH CAROLINA 40' SERIES

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2018 NORTH **CAROLINA STATE** BUILDING CODES

03/25/21 ISSUE DATE: ■ PROJECT No.: 1350999:56 ■ DIVISION MGR.: MCP

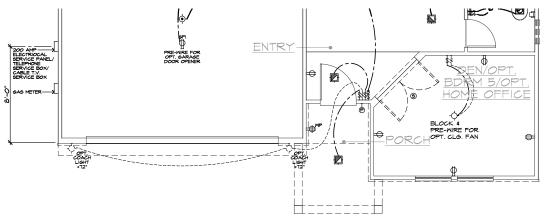
SEE BELOW "

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NC21051CNP / 04/16/21 / KBA

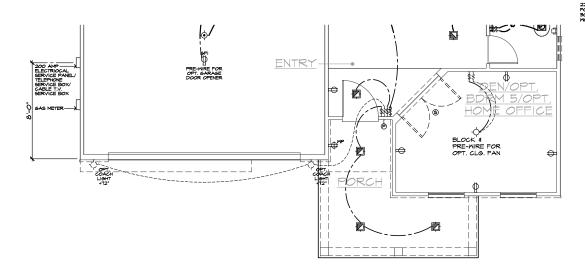
REVISIONS:

240.2539

4.3



PARTIAL FIRST FLOOR UTILITY PLAN "B" SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

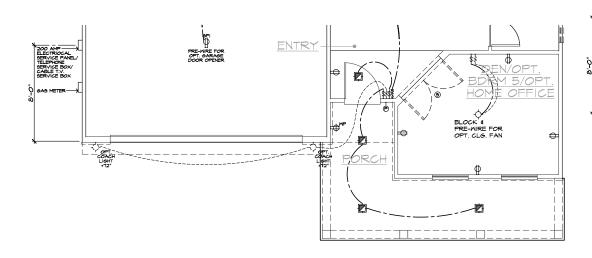


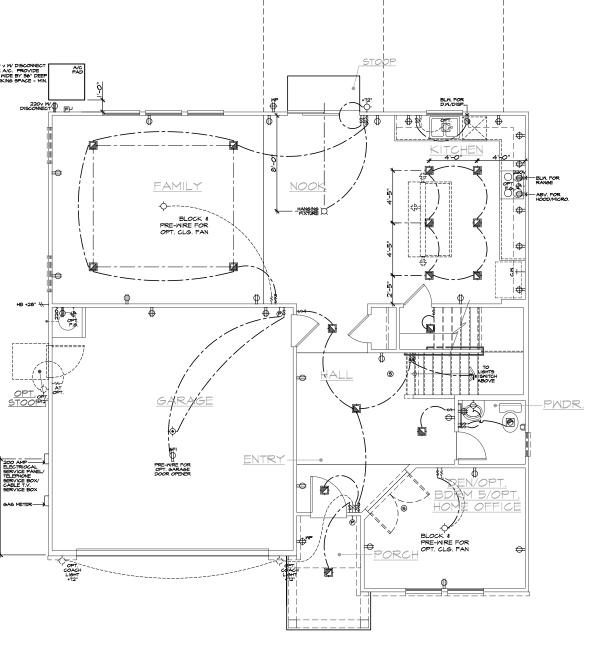
PARTIAL FIRST FLOOR UTILITY PLAN "C"

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")

BASIC PLAN

BASIC PLAN



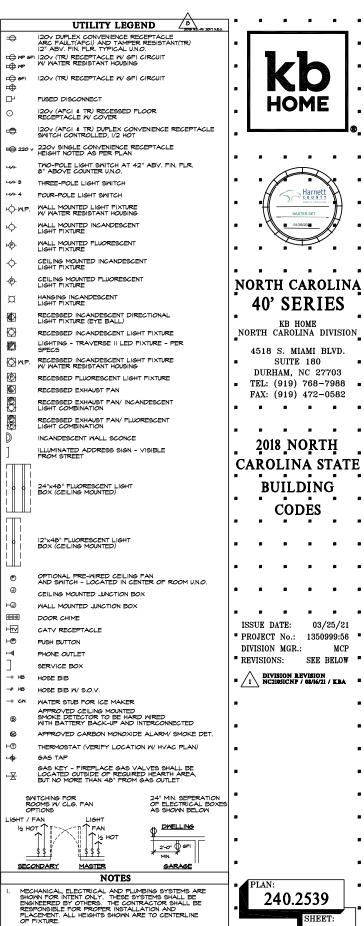


PARTIAL FIRST FLOOR UTILITY PLAN "D"

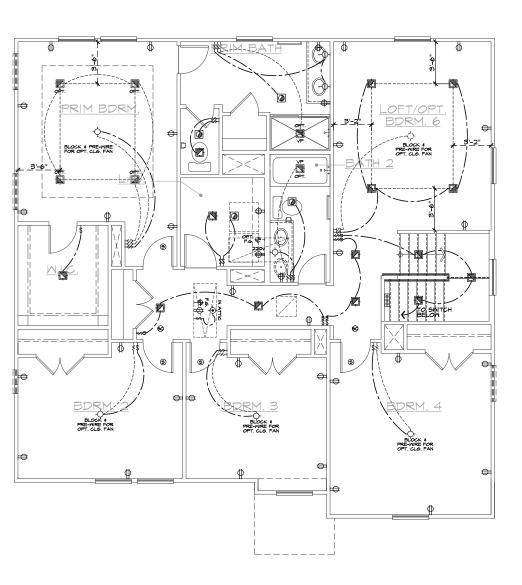
SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")

FIRST FLOOR UTILITY PLAN

SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XI7")



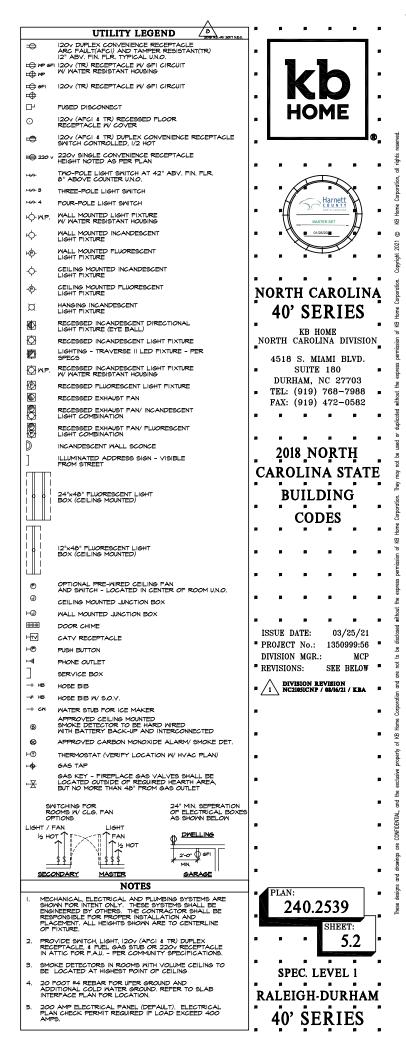
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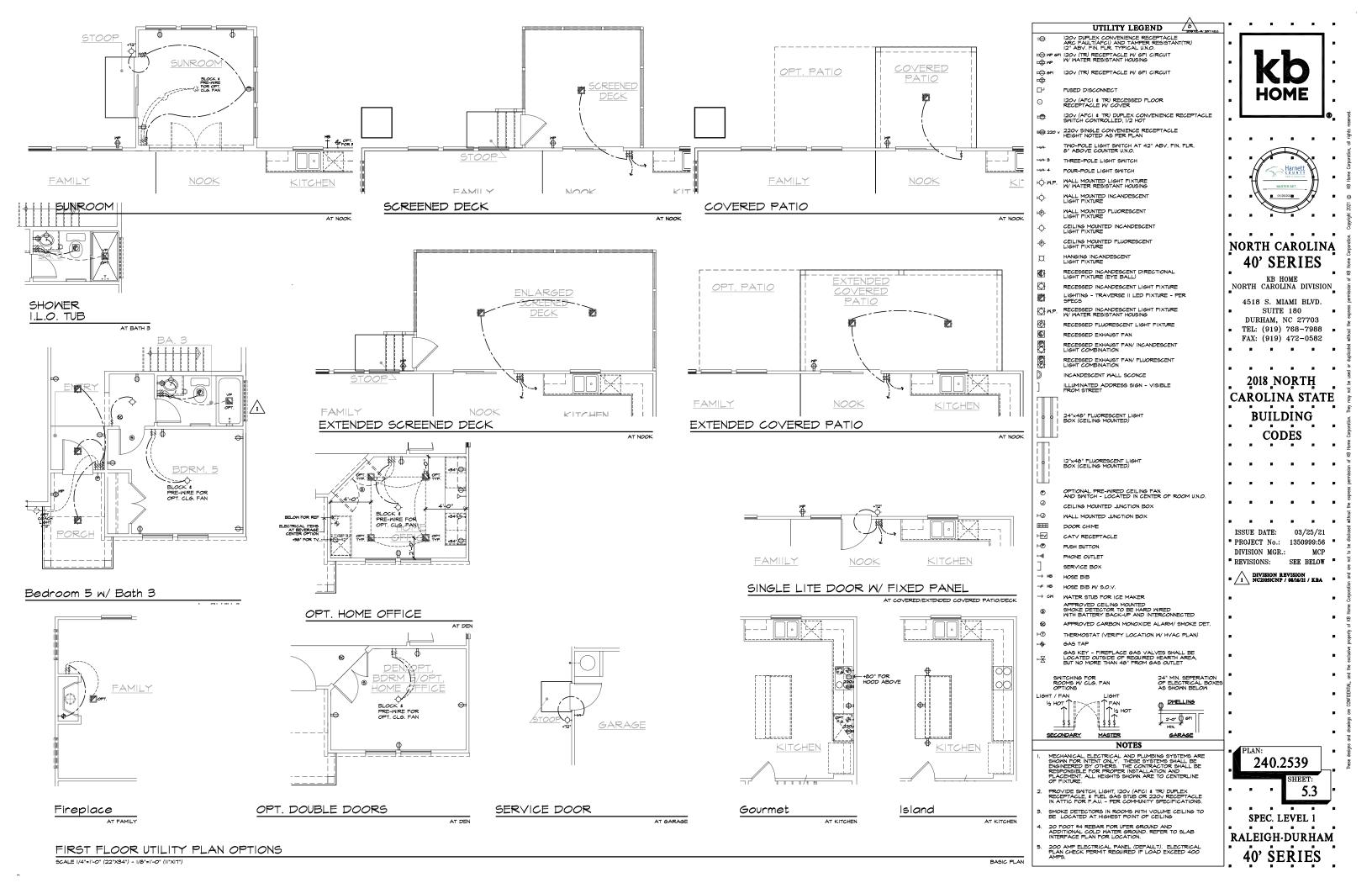


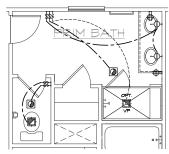
SECOND FLOOR UTILITY PLAN

SCALE |/4"=1'-0" (22"X34") - |/8"=1'-0" (||"X|7")

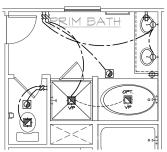
BASIC PL





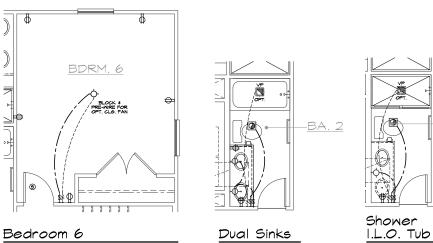


DELUXE PRIM BATH
AT PRIM BATH



SUPER PRIM BATH

AT PRIM BATH

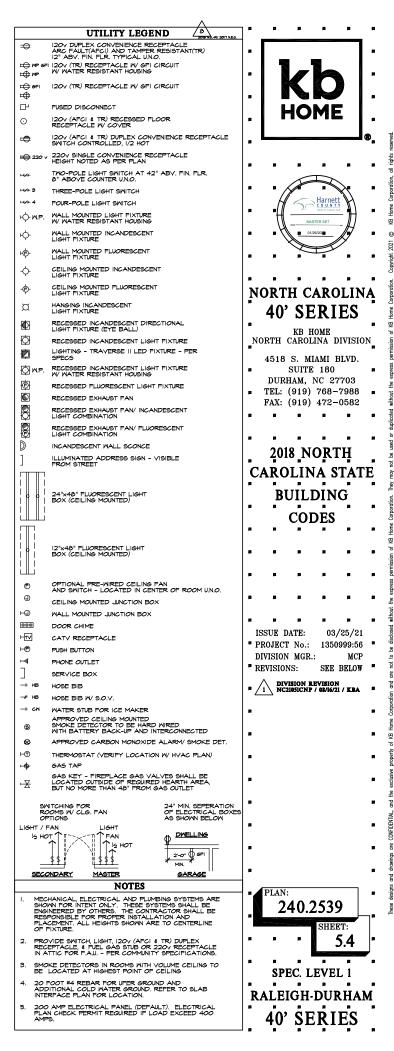


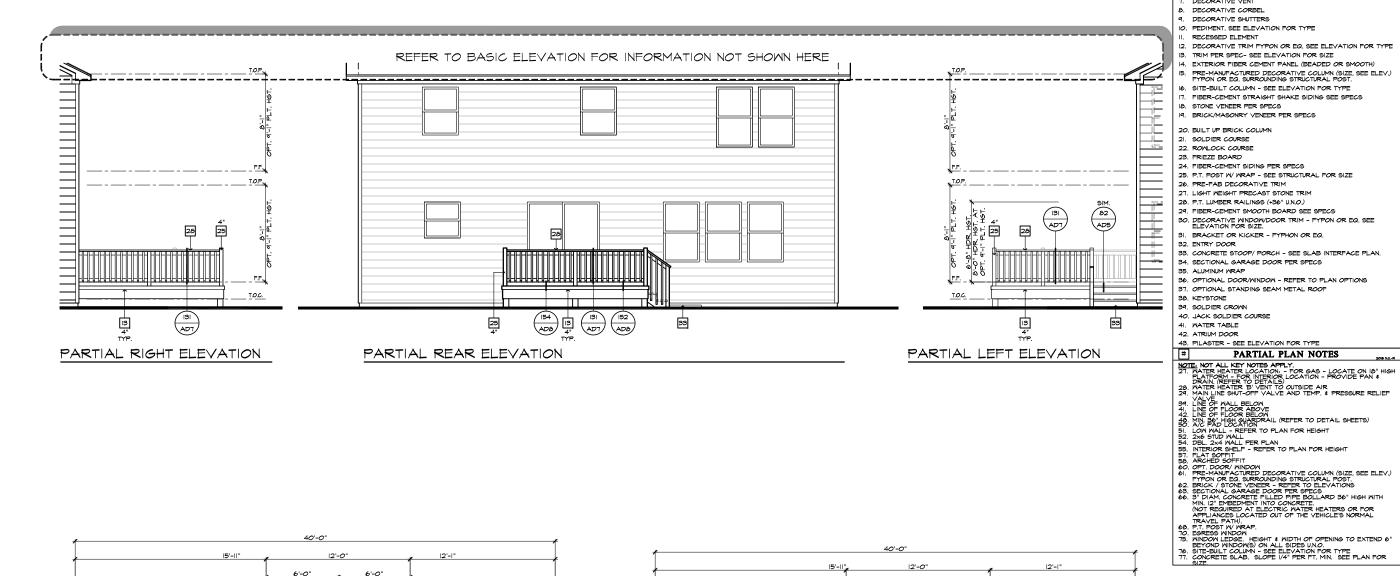
SECOND FLOOR UTILITY PLAN OPTIONS

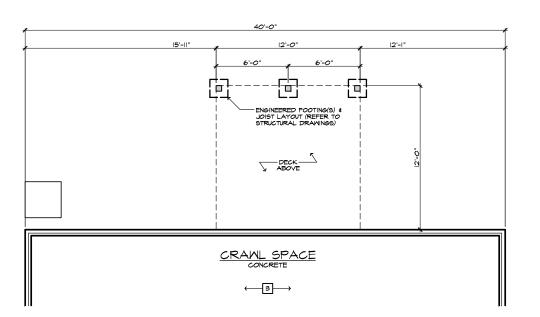
SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XIT")

BASIC PLAN

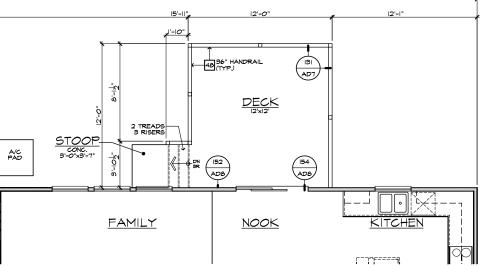
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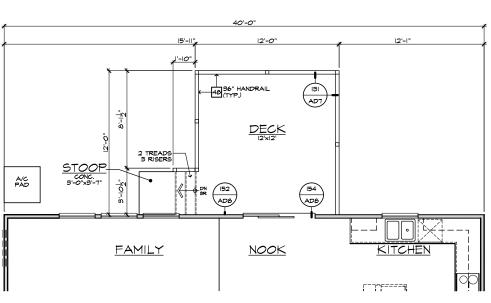
PARTIAL CRAWL SPACE PLAN



PARTIAL FIRST FLOOR PLAN

DECK AT CRAWL SPACE

SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7")







NORTH CAROLINA 40' SERIES

кв номе NORTH CAROLINA DIVISION

4506 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7980 m FAX: (919) 544-2928

2018 NORTH **CAROLINA STATE BUILDING** CODES

> ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.:

REVISIONS: 12/17/21 DIVISION REVISION
NC21051CNP / 08/16/21 / KBA ATTIC ACESS NC21062CNP / 11/19/21 / KBA

ADD DECK OPTION NC21056NCP · 12/17/21 · CTD

FOUNDATION PER STRUCTURAL. 4. STAIR LANDING: 36"x36" MIN. 5. CONCRETE DRIVEWAY SLOPE I/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.

4" TOE KICK FOR MASONRY VENEER.
 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.

FOUNDATION PLAN NOTES

CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PE 1'-O" MIN. TOMARD DOOR OPENING.

PARTIAL PLAN NOTES

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

IO. VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL

I. 4" MIN. 7 3/4" MAX. TO HARD SURFACE 12. A/C PAD. VERIFY LOCATION.

IB. CRAWL SPACE ACCESS

6. PROVIDE UNDER FLOOR VENTILATION

NOTE: NOT ALL KEY NOTES APPLY.

14. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN

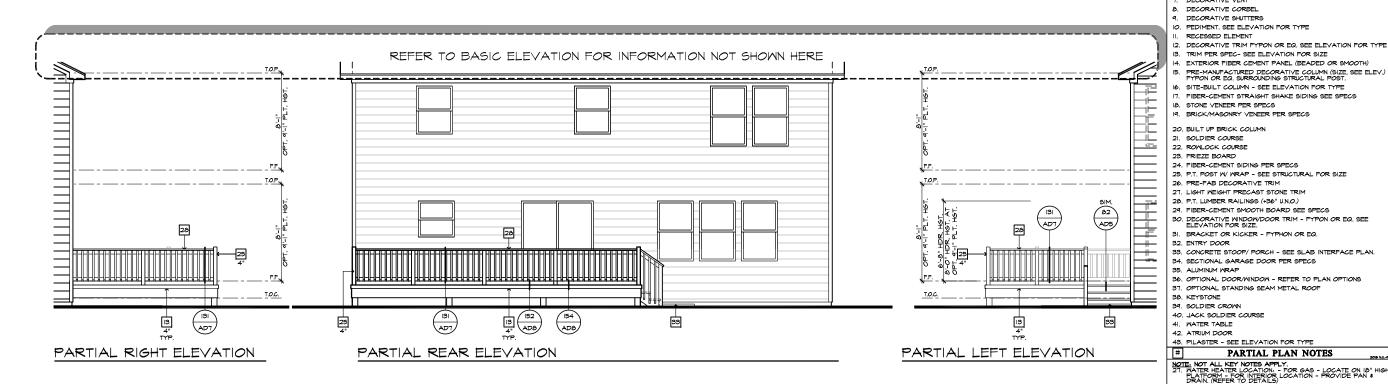
THE CRAML SPACE IS TO BE CONDITIONED PER NC-R SECTION R409.
THE CRAML SPACE VAPOR RETARDER (BARRIER) IS TO BE PER NC-R SECTION R409.2.

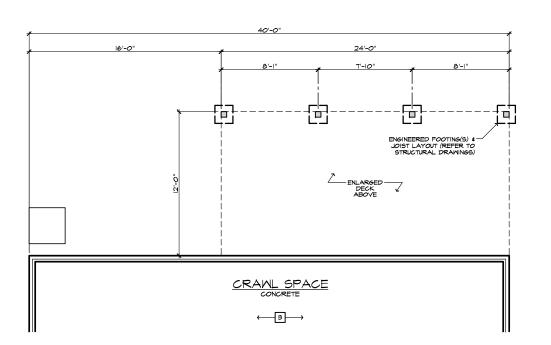
NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

240.2539 SHEET: 7.1

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES



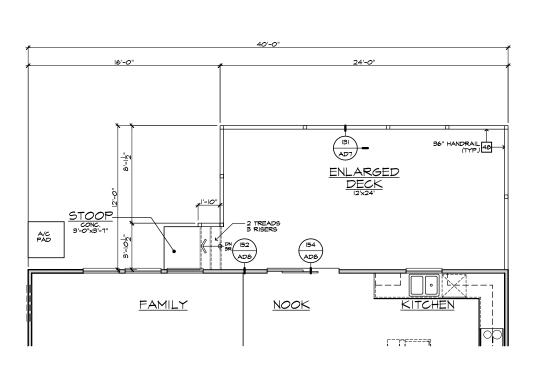


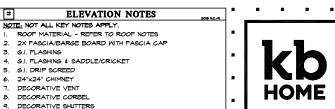
PARTIAL CRAWL SPACE PLAN

PARTIAL FIRST FLOOR PLAN

EXTENDED ENLARGED DECK AT CRAWL SPACE

SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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2018 NORTH **CAROLINA STATE BUILDING** CODES

PARTIAL PLAN NOTES

***DOTE: NOT ALL KEY NOTES APPLY
21. NATER HEATER LOCATION: - FOR GAS - LOCATE ON 18" HIGH PLATFORM - FOR INTERIOR, LOCATION - PROVIDE PAN 4 DRAIN, (REFER TO DETAILS)
22. MATER HEATER BY VENT TO OUTSIDE AIR
23. MANE, NEW SHAPPORT OF VALVE AND TEMP. 4 PRESSURE RELIEF
24. MAIL NEW SHAPPORT OF VALVE AND TEMP. 4 PRESSURE RELIEF
25. LINE OF HALD BELOW
26. LINE OF FLOOR BELOW
26. LINE OF FLOOR BELOW
27. LINE OF FLOOR SHAPPORT OF THE HIGHT
27. LOW WALL - REFER TO PLAN FOR HEIGHT
27. LOW WALL - REFER TO PLAN FOR HEIGHT
27. LOW WALL - REFER TO PLAN FOR HEIGHT
27. LAT SOFFIT
28. ARCHED SOFFIT
29. ARCHED SOFFIT
29. ARCHED SORFIT
29. SECTIONAL GARAGE DOOR PER SPECS
29. SECTION GARAGE
20. SECTION GARAGE
20.

PARTIAL PLAN NOTES

ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.: REVISIONS: 12/17/21 **

240.2539

SHEET: 7.2

DIVISION REVISION
NC21051CNP / 08/16/21 / KBA ATTIC ACESS NC21062CNP / 11/19/21 / KBA FOUNDATION PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY.

ADD DECK OPTION NC21056NCP · 12/17/21 · CTD CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE I/6" I'-O" MIN, TOWARD DOOR OPENING.

FOUNDATION PER STRUCTURAL.

4. STAIR LANDING: 36"x36" MIN.

5. CONCRETE DRIVEMAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING. 6. PROVIDE UNDER FLOOR VENTILATION

4" TOE KICK FOR MASONRY VENEER.
 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

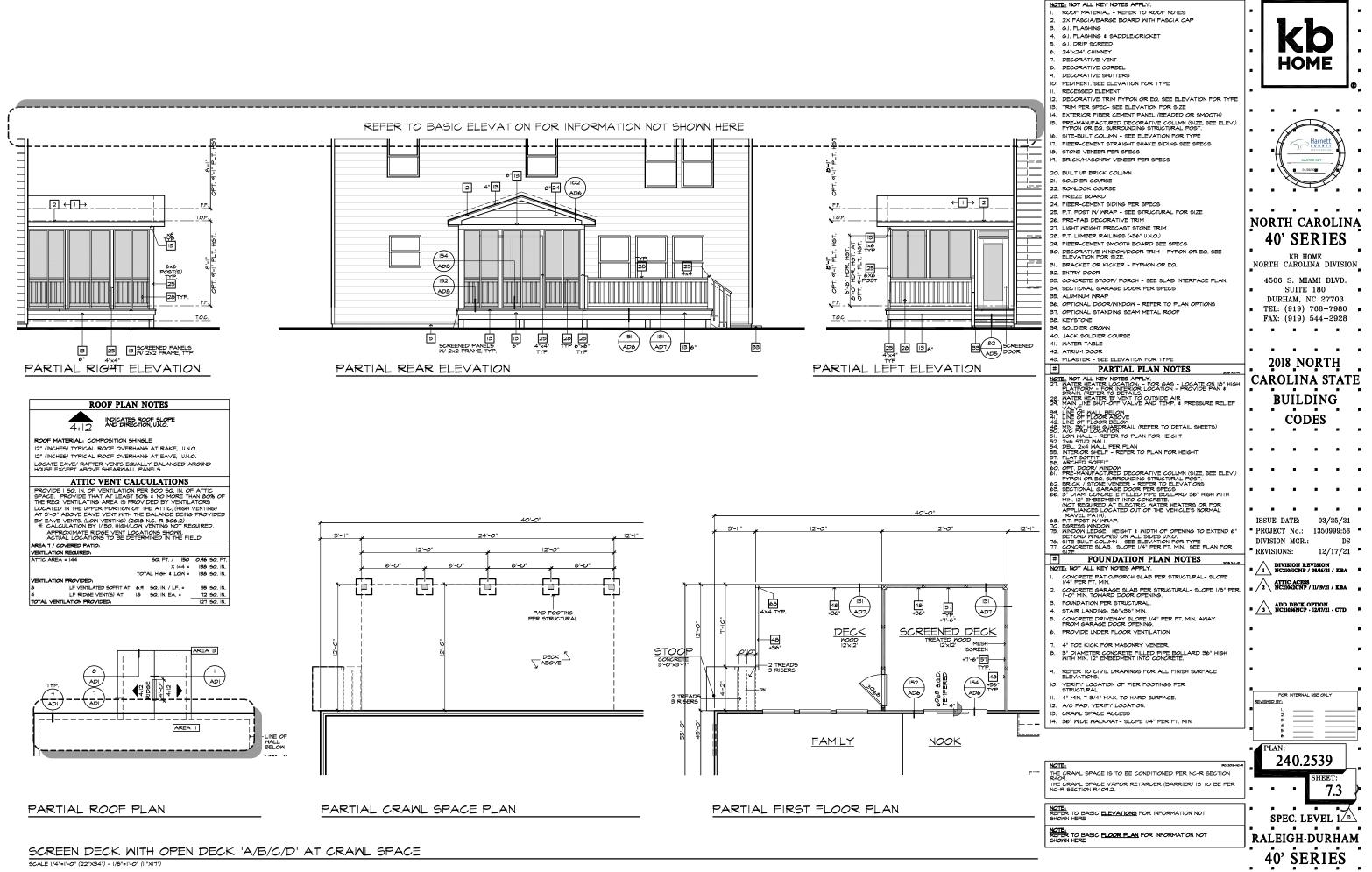
II. 4" MIN. 7 3/4" MAX. TO HARD SURFACE.I2. A/C PAD. VERIFY LOCATION.

13. CRAWL SPACE ACCESS 14. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN

THE CRAML SPACE IS TO BE CONDITIONED PER NC-R SECTION R409.
THE CRAML SPACE VAPOR RETARDER (BARRIER) IS TO BE PER NC-R SECTION R409.2.

NOTE: REFER TO BASIC **ELEVATIONS** FOR INFORMATION NOT SHOWN HERE

SPEC. LEVEL 1 NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE RALEIGH-DURHAM 40' SERIES



ELEVATION NOTES

REFER TO BASIC ELEVATION FOR INFORMATION NOT SHOWN HERE 7'-0" HDR, HGT 7'-8" HDR, HGT, / OPT, 9'-1" PLT, HG TYP.TYP. 106 77P. TYP. THP. (AD6) T.O.P. -[13]1×6 6'-8" HDR. HGT. 8'-0" HDR. HGT. 8'-0" HDR. HGT. AT ' 25 6" POST **OPEN**

PARTIAL RIGHT ELEVATION

-[13]1×6



ROOF MATERIAL: COMPOSITION SHINGLE

12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARMALL PANELS.

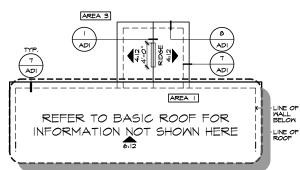
ATTIC VENT CALCULATIONS

PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% IN MORE THAN 80% OF THE REQ. VENTILATING MERE AS PROVIDED BY VENTILATING STATE IN THE VENTILATING STATE AS THE STATE OF TH

APPROXIMATE RIDGE VENT LOCATIONS SHOWN, ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.



50. FT. / I50 0.67 SQ. F X 144 = 96 SQ. IN TOTAL HIGH \$ LOW = 96 SQ. IN ENTILATION PROVIDED: LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = 4 LF RIDGE VENT(S) AT 18 SQ. IN. EA. = TOTAL VENTILATION PROVIDED:



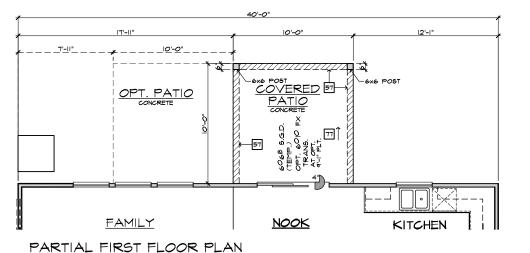
PARTIAL ROOF PLAN

12'-_____|<u>|0'-0"</u>__ COVERED PATIO OPT. PATIO 47 AD3 FAMILY NOOK KITCHEN

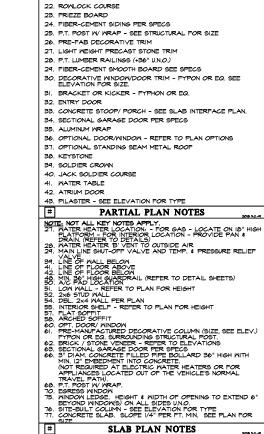
33

PARTIAL REAR ELEVATION

PARTIAL SLAB INTERFACE PLAN



COVERED PATIO AT SLAB ON GRADE



HOME

NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING** CODES

ISSUE DATE: 03/25/21

PROJECT No.: 1350999:56 DIVISION MGR.: D.S. REVISIONS: SEE BELOW

DIVISION REVISION
NC2105ICNP / 08/16/21 / KBA ATTIC ACESS NC21062CNP / 11/19/21 / KBA

SLAB PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY.

CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.

ELEVATION NOTES

12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE TRIM PER SPEC- SEE ELEVATION FOR SIZE
 EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH, 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE IT. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS

ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

NOTE: NOT ALL KEY NOTES APPLY.

4. G.I. FLASHING & SADDLE/CRICKET

IO. PEDIMENT. SEE ELEVATION FOR TYPE

3. G.I. FLASHING

5. G.I. DRIP SCREED 6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL

9. DECORATIVE SHUTTERS

I. RECESSED ELEMENT

18. STONE VENEER PER SPECS

20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE

19. BRICK/MASONRY VENEER PER SPECS

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE I/8" I'-O" MIN. TOMARD DOOR OPENING. 3. CONCRETE FOUNDATION PER STRUCTURAL.

CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN.

CONCRETE DRIVEWAY SLOPE I/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING. . PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.

5" BRICK LEDGE FOR MASONRY VENEER

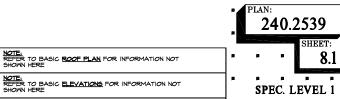
 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

IO. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.

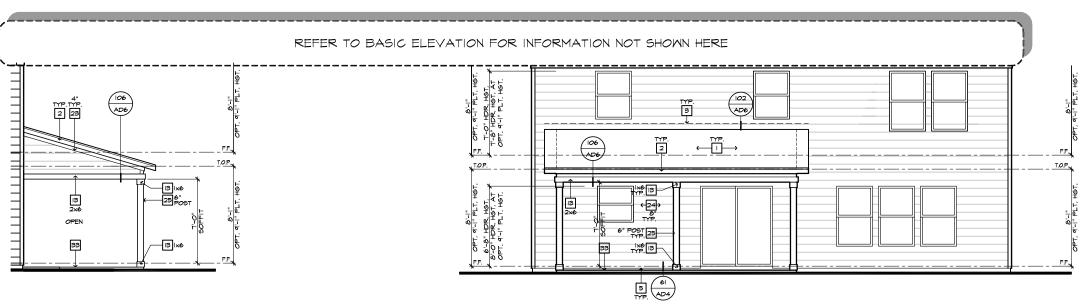
I. 4" MIN. 8 I/4" MAX. TO HARD SURFACE.

12. A/C PAD, VERIFY LOCATION.

13. 36" MIDE WALKWAY- SLOPE 1/4" PER FT. MIN.



NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE RALEIGH-DURHAM 40' SERIES NOTE: REFER TO BASIC <u>SLAB PLAN</u> FOR INFORMATION NOT SHOWN HERE



PARTIAL RIGHT ELEVATION

ROOF PLAN NOTES INDICATES ROOF SLOPE AND DIRECTION, U.N.O.

ROOF MATERIAL: COMPOSITION SHINGLE

3.5:12

12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARMALL PANELS.

ATTIC VENT CALCULATIONS

PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATING STATE LOCATED IN THE UPPER PORTION OF THE ATTIC. (HIGH VENTING) AT 3"-0" ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED BY EAVE VENTS. (LOW VENTING) (2016 N.C.-R 506.2)

**CALCULATION BY (1951), HIGHLOW VENTING NOT REQUIRED.

APPROXIMATE RIDGE VENT LOCATIONS SHOWN, ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

AREA 4/ EXTENDED COVERED PATIO VENTILATION REQUIRED
ATTIC AREA = 240

X 144 = 250 SQ. IN TOTAL HIGH & LOW = 230 SQ. IN

VENTILATION PROVIDED: TOTAL VENTILATION PROVIDED:

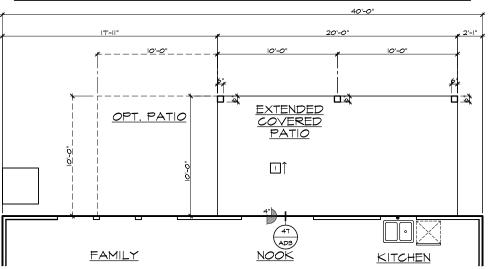
LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = ISS SQ. IN

AREA 4 \vee ADI TYP. 8 (ADI) AREA I LINE OF ROOF REFER TO BASIC ROOF FOR INFORMATION NOT SHOWN HERE

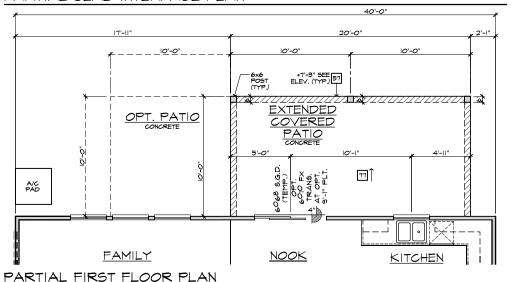
PARTIAL ROOF PLAN

EXTENDED COVERED PATIO AT SLAB ON GRADE

PARTIAL REAR ELEVATION



PARTIAL SLAB INTERFACE PLAN





NORTH CAROLINA 40' SERIES

кв номе NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH

CAROLINA STATE BUILDING

CODES

42. ATRIUM DOOR # PARTIAL PLAN NO PARTIAL PLAN NOTES

31. BRACKET OR KICKER - FYPHON OR EQ.

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

32. ENTRY DOOR

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE

4I. WATER TABLE

MOTE, NOT ALL KEY NOTES APPLY

20. MATER HEATER LOCATION: - FOR GAS - LOCATE ON 10" HIGH
PLATFORM - FOR NITERIOR LOCATION - FOR GAS - LOCATE ON 10" HIGH
PLATFORM - FOR NITERIOR LOCATION - FOR YOUTE PAN 8

20. MATER HEATER BY VENT TO OUTSIDE AIR

21. MAIN LINE SHUT-OFF VALVE AND TEMP. 8 PRESSURE RELIEF

34. LINE OF MALL BELOW

41. LINE OF FLOOR ABOVE

42. LINE OF FLOOR BELOW

43. NIN 30" HIGH SUNTRALI (REFER TO DETAIL SHEETS)

51. LOW MAIL - REFER TO PLAN FOR HEIGHT

33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

3. G.I. FLASHING

2. LINE OF FLOOR BELOW
3. MIN 360 FLOOR SELOW
3. MIN 360 FLOOR SETTING SETTING
3. MIN 360 FLOOR SETTING SETTING
4. DEL. 2x4 MALL PER FLAN
4. DEL. 2x4 MALL PER FLAN
5. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT
7. FLAT SOFFIT
9. ARCHED SOFFIT
9. ARCHED SOFFIT
9. OPT. DOOR! MINDOW
1. PRE-MANDFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)
1. PRE-MANDFACTURED DOOR FER SPECIAL POOR
1. SECTIONAL GARAGE DOOR FER SPECIAL POOR
1. SIZE MINDOW
1. SECTIONAL GARAGE DOOR FER SPECIAL POOR
1. SECTIONAL SECTION SECTION SECTION
1. SECTIONAL SECTION SECTION SECTION SECTION
1. SECTIONAL SECTION SECTION
1. SECTIONAL SECTION SECTION
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1. SEC

ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 DIVISION MGR.: D.S.

REVISIONS: SEE BELOW

DIVISION REVISION
NC21051CNP / 08/16/21 / KBA ATTIC ACESS NC21062CNP / 11/19/21 / KBA **SLAB PLAN NOTES**

NOTE: NOT ALL KEY NOTES APPLY CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE $\parallel/4^\circ$ PER FT. MIN.

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE $1/8^\circ$ PER 1'-0" MIN. TOWARD DOOR OPENING.

3. CONCRETE FOUNDATION PER STRUCTURAL CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN.

CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING. PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.

5" BRICK LEDGE FOR MASONRY VENEER.

 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

IO. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.

I. 4" MIN. 8 I/4" MAX. TO HARD SURFACE. 12. A/C PAD. VERIFY LOCATION.

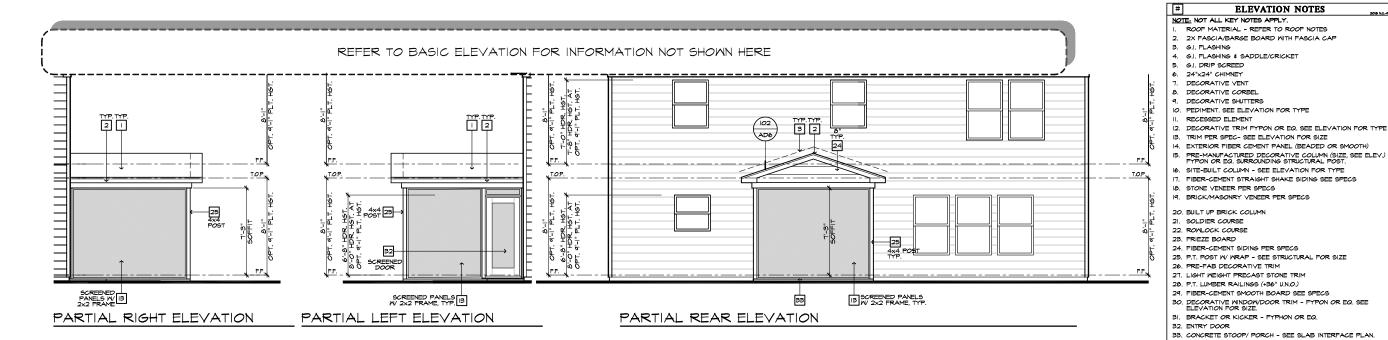
13. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN

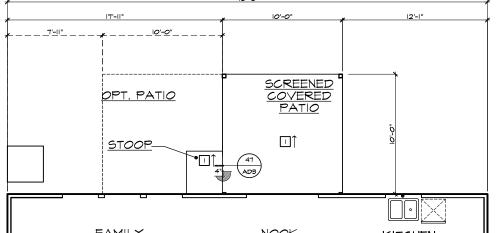
<u>NOTE:</u> REFER TO BASIC <u>ROOF PLAN</u> FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC <u>SLAB PLAN</u> FOR INFORMATION NOT SHOWN HERE

240.2539 HEET:

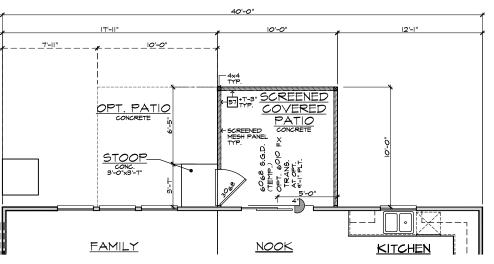
8.2 SPEC. LEVEL 1

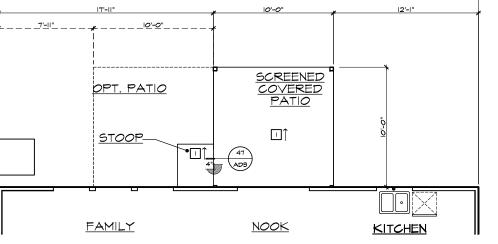
RALEIGH-DURHAM 40' SERIES

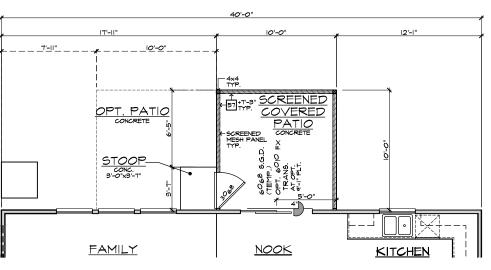




PARTIAL SLAB INTERFACE PLAN







PARTIAL FIRST FLOOR PLAN



INDICATES ROOF SLOPE AND DIRECTION, U.N.O.

ROOF MATERIAL: COMPOSITION SHINGLE 12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARWALL PANELS.

ATTIC VENT CALCULATIONS

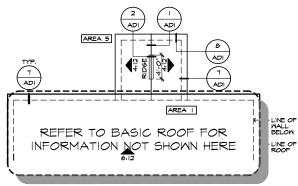
PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATING STATE LOCATED IN THE UPPER PORTION OF THE ATTIC. (HIGH VENTING) AT 3"-0" ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED BY EAVE VENTS. (LOW VENTING) (2018 N.C.-R 806-2)
** CALCULATION BY (1951), HIGHLOW VENTING NOT REQUIRED.

APPROXIMATE RIDGE VENT LOCATIONS SHOWN, ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

AREA 5/ SCREEN-IN COVERED PATIO

VENTILATION REQUIRED: ATTIC AREA = 100 X 144 = 96 5Q. IN TOTAL HIGH \$ LOW = 96 5Q. IN

LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = 4 LF RIDGE VENT(S) AT 18 SQ. IN. EA. = TOTAL VENTILATION PROVIDED:



PARTIAL ROOF PLAN

COVERED SCREENED PATIO AT SLAB ON GRADE

ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 4. G.I. FLASHING & SADDLE/CRICKET

ELEVATION NOTES



HOME

NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING** CODES

MOTE, NOT ALL KEY NOTES APPLY.

27. MATER HEATER LOCATION: - FOR GAS - LOCATE ON 10° HIGH PLANT REPORT - FOR MATER HEATER LOCATION: - FOR GAS - LOCATE ON 10° HIGH PLANT (REFER TO DETAILS)

29. MATER HEATER BY VENT TO CUTSIDE AIR 21° MAIN LINE SHUT-OFF VALVE AND TEMP. 8 PRESSURE RELIEF 34. LINE OF PLOOR ABOVE 41° LINE OF FLOOR ABOVE 42. LINE OF FLOOR BELOW 42. LINE OF FLOOR BELOW 45. MIN 30° HIGH GLATTER TO PLANT FOR HEIGHT SHEETS)

51. LOW MAIL - REFER TO PLAN FOR HEIGHT

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

43. PILASTER - SEE ELEVATION FOR TYPE

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

PARTIAL PLAN NOTES

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE

4I. WATER TABLE 42. ATRIUM DOOR

2. LINE OF FLOOR BELOW
3. MIN 360 FLOOR SELOW
3. MIN 360 FLOOR SETTING SETTING
3. MIN 360 FLOOR SETTING SETTING
4. DEL. 2x4 MALL PER FLAN
4. DEL. 2x4 MALL PER FLAN
5. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT
7. FLAT SOFFIT
9. ARCHED SOFFIT
9. ARCHED SOFFIT
9. OPT. DOOR! MINDOW
1. PRE-MANDFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)
1. PRE-MANDFACTURED DOOR FER SPECIAL POOR
1. SECTIONAL GARAGE DOOR FER SPECIAL POOR
1. SIZE MINDOW
1. SECTIONAL GARAGE DOOR FER SPECIAL POOR
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1. SEC

PROJECT No.: 1350999:56 DIVISION MGR.: D.S. REVISIONS: SEE BELOW DIVISION REVISION
NC2105ICNP / 08/16/21 / KBA

ATTIC ACESS NC21062CNP / 11/19/21 / KBA

ISSUE DATE:

03/25/21

SLAB PLAN NOTES

CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE $1/6^\circ$ PER $1'\text{-}O^\circ$ MIN. TOWARD DOOR OPENING.

3. CONCRETE FOUNDATION PER STRUCTURAL CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN.

CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING. PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.

5" BRICK LEDGE FOR MASONRY VENEER.

 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

IO. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.

I. 4" MIN. 8 I/4" MAX. TO HARD SURFACE.

12. A/C PAD. VERIFY LOCATION.

13 36" WIDE WALKWAY- SLOPE 1/4" PER ET MIN

240.2539

NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE

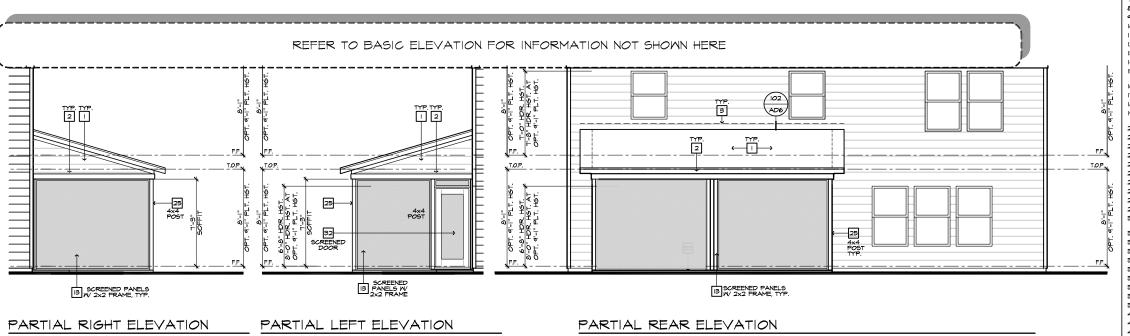
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC <u>SLAB PLAN</u> FOR INFORMATION NOT SHOWN HERE

HEET: 8.3 SPEC. LEVEL 1

RALEIGH-DURHAM

40' SERIES





ROOF MATERIAL: COMPOSITION SHINGLE 12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARMALL PANELS.

ATTIC VENT CALCULATIONS

PROVIDE I SO, IN, OF VENTILATION PER 300 SO, IN, OF ATTIC SPACE, PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING) AT 3'-0' ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED BY EAVE VENTS, (LOW VENTING) (2018 NC.-R 806.2)

CALCULATION BY (150, HIGH/LOW VENTING NOT REQUIRED.

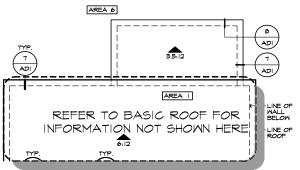
APPROXIMATE RIDGE VENT LOCATIONS SHOWN, ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

AREA 6/ EXTENDED SCREEN-IN COVERED PATIO VENTILATION REQUIRED
ATTIC AREA = 240

X 144 = 250 SQ. IN TOTAL HIGH & LOW = 230 SQ. IN

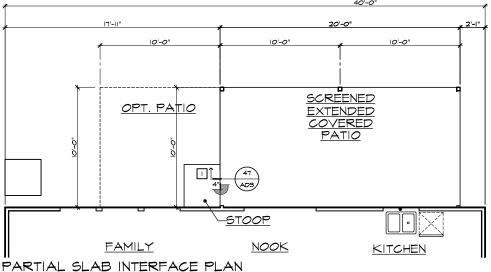
ENTILATION PROVIDED:

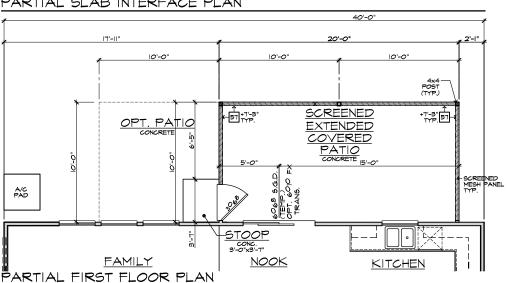
LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = 124 SQ. IN 7 LF RIDGE VENT(S) AT 18 SQ. IN. EA. = 126 SQ. IN. TOTAL VENTILATION PROVIDED: 250 SQ. IN.

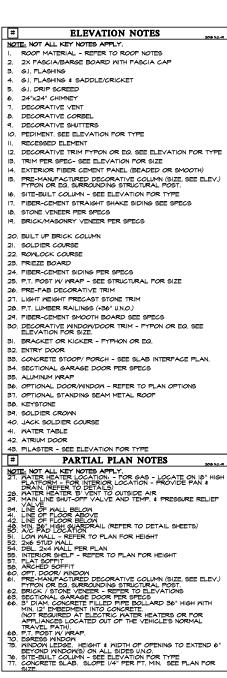


PARTIAL ROOF PLAN

EXTENDED COVERED SCREENED PATIO AT SLAB ON GRADE







HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE BUILDING** CODES

> ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56

DIVISION MGR.: D.S. REVISIONS: SEE BELOW DIVISION REVISION
NC21051CNP / 08/16/21 / KBA

ATTIC ACESS NC21062CNP / 11/19/21 / KBA **SLAB PLAN NOTES**

NOTE: NOT ALL KEY NOTES APPLY CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE $1/4^\circ$ PER FT. MIN.

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE $1/8^\circ$ PER 1'-0" MIN. TOWARD DOOR OPENING.

3. CONCRETE FOUNDATION PER STRUCTURAL

CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN. CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.

PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION. 5" BRICK LEDGE FOR MASONRY VENEER.

 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

O. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.

I. 4" MIN. 8 I/4" MAX. TO HARD SURFACE.

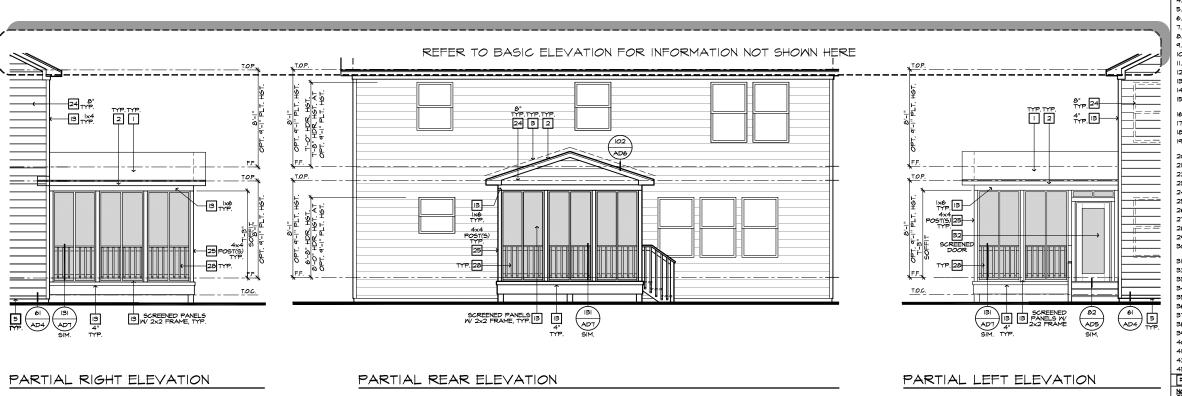
12. A/C PAD. VERIFY LOCATION. 13. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN

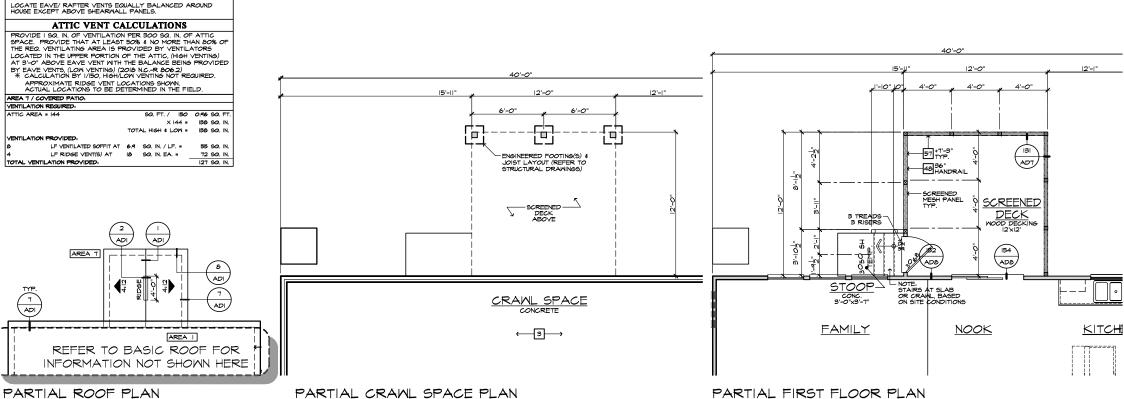
NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC <u>SLAB PLAN</u> FOR INFORMATION NOT SHOWN HERE

240.2539 HEET:

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

8.4





ELEVATION NOTES NOTE: NOT ALL KEY NOTES APPLY. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 3. G.I. FLASHING 4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED . 24"x24" CHIMNEY DECORATIVE VENT DECORATIVE CORBEL DECORATIVE SHUTTERS O. PEDIMENT, SEE ELEVATION FOR TYPE RECESSED ELEMENT 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE B. TRIM PER SPEC- SEE ELEVATION FOR SIZE 14. EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH)
15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)
FYPON OR EQ. SURROUNDING STRUCTURAL POST. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE 17. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS IS. STONE VENEER PER SPECS 19. BRICK/MASONRY VENEER PER SPECS 20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE 22. ROWLOCK COURSE 23. FRIEZE BOARD 24. FIBER-CEMENT SIDING PER SPECS
25. P.T. POST W/WRAP - SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM 27. LIGHT WEIGHT PRECAST STONE TRIM 28. P.T. LUMBER RAILINGS (+36" U.N.O.) 29. FIBER-CEMENT SMOOTH BOARD SEE SPECS 30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE. 31. BRACKET OR KICKER - FYPHON OR EQ. 32. ENTRY DOOR 33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN. 34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP 36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF 38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE 41. WATER TABLE 42. ATRIUM DOOR 43. PILASTER - SEE ELEVATION FOR TYPE # PARTIAL PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

27. MATER HEATER LOCATION: - FOR GAS - LOCATE ON 10' HIGH PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN & DEATH OF THE PROVIDE PAN & DEATH OF THE PARTY OF STATE OF THE PROVIDE PAN & DEATH HEATER BY VENT TO CUTSIDE AIR

28. MAINE NEW SHLO-PEY VALVE AND TEMP. & PRESSURE RELIEF MAINE OF MALL BELOW & LINE OF FLOOR BELOW & LINE OF STATE OF THE PAN FOR HEIGHT & STATE OF THE PAN FOR THE PAN FO PARTIAL PLAN NOTES DIVISION MGR.: REVISIONS: SEE BELOW ATTIC ACESS NC21062CNP / 11/19/21 / KBA FOUNDATION PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER 1'-O" MIN. TOWARD DOOR OPENING. FOUNDATION PER STRUCTURAL. . STAIR LANDING: 36"x36" MIN. CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING. 6. PROVIDE UNDER FLOOR VENTILATION 7. 4" TOE KICK FOR MASONRY VENEER. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS. VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL 4" MIN. 7 3/4" MAX. TO HARD SURFACE. 12. A/C PAD. VERIFY LOCATION. 13. CRAWL SPACE ACCESS 14. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN. THE CRAWL SPACE IS TO BE CONDITIONED PER NC-R SECTION R404. THE CRAML SPACE VAPOR RETARDER (BARRIER) IS TO BE PER NC-R SECTION R409.2. NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582

2018 NORTH **CAROLINA STATE** BUILDING CODES

ISSUE DATE: 03/25/21 PROJECT No.: 1350999:56 D.S.

DIVISION REVISION
NC21051CNP / 08/16/21 / KBA

240.2539

8.5

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

ROOF PLAN NOTES

12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O.

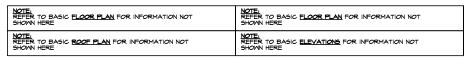
INDICATES ROOF SLOPE AND DIRECTION, U.N.O.

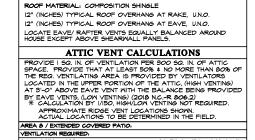


PARTIAL RIGHT ELEVATION

PARTIAL REAR ELEVATION

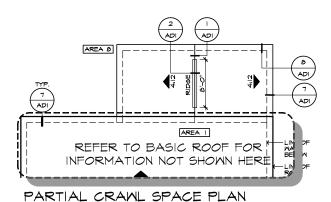
PARTIAL LEFT ELEVATION

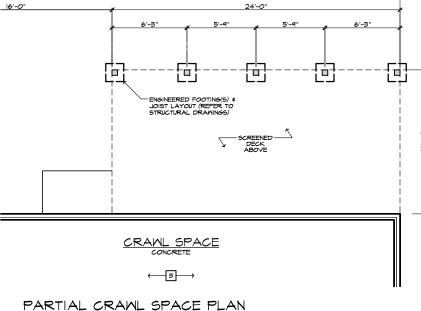


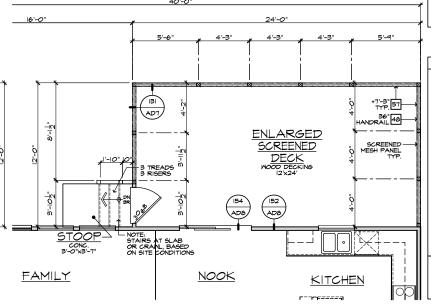


ROOF PLAN NOTES

LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = 138 SQ. IN LF. RIDGE VENT(S) AT 18 SQ. IN. EA. = 144 SQ. IN







PARTIAL FIRST FLOOR PLAN

2018 NORTH **CAROLINA STATE BUILDING**

HOME

NORTH CAROLINA

40' SERIES

KB HOME

NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD.

SUITE 180

DURHAM, NC 27703

TEL: (919) 768-7988

FAX: (919) 472-0582

CODES

PROJECT No.: 1350999:56

03/25/21

SEE BELOW

D.S.

ISSUE DATE:

REVISIONS:

DIVISION MGR.:

PARTIAL PLAN NOTES

NOTE, NOT ALL KEY NOTES APPLY.

21. WATER HEATER LOCATION. - FOR GAS - LOCATE ON 10' HIGH PRAIN (REFER TO PURPOS). LOCATION - PROVIDE PAN & PRAIN (REFER TO PURPOS).

22. WATER HEATER B' VENT TO OUTSIDE AIR

23. MAIN LINE SHIT-OFF VALVE AND TEMP, & PRESSURE RELIEF

24. MAIN LINE SHIT-OFF VALVE AND TEMP, & PRESSURE RELIEF

25. MATER HEATER B' VENT TO OUTSIDE AIR

26. MINE OF FLOOR BELOW

27. LINE OF FLOOR BELOW

28. LINE OF FLOOR BELOW

29. LINE OF FLOOR SHOW

29. MINE OF FLOOR SHOW

20. MINE OF SHOW

PARTIAL PLAN NOTES

ELEVATION NOTES

ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

NOTE: NOT ALL KEY NOTES APPLY.

4. G.I. FLASHING & SADDLE/CRICKE

3. G.I. FLASHING

DIVISION REVISION
NC2105ICNP / 08/16/21 / KBA ATTIC ACESS NC21062CNP / 11/19/21 / KBA FOUNDATION PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY. CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE 1/4" PER FT. MIN. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE I/8" PER I'-O" MIN. TOMARD DOOR OPENING.

FOUNDATION PER STRUCTURAL. . STAIR LANDING: 36"x36" MIN.

CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING. PROVIDE UNDER FLOOR VENTILATION

4" TOE KICK FOR MASONRY VENEER. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

4" MIN. 7 3/4" MAX. TO HARD SURFACE

12. A/C PAD. VERIFY LOCATION. IB. CRAWL SPACE ACCESS

14. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN

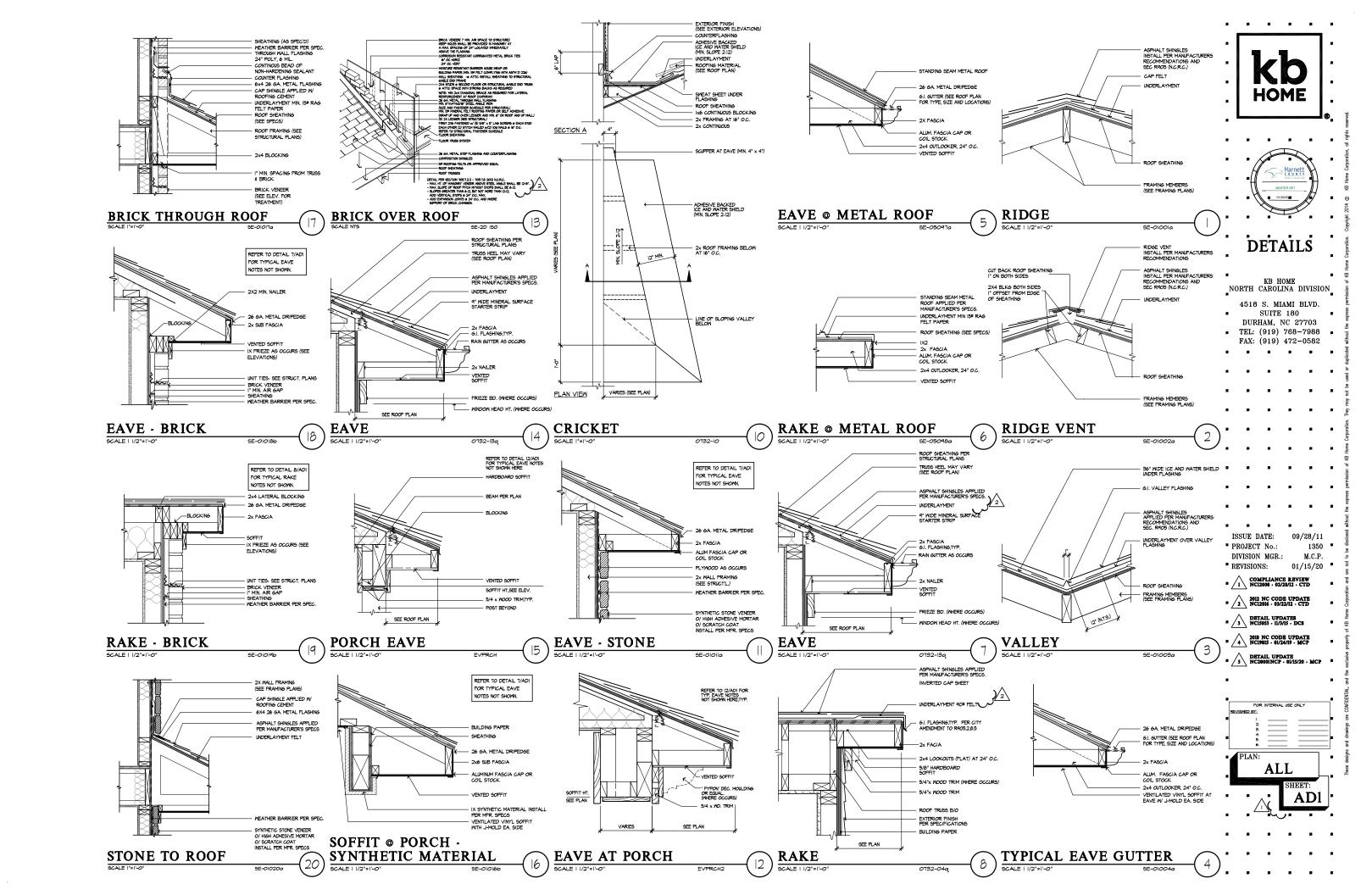
NOTE: THE CRANL SPACE IS TO BE CONDITIONED PER NC-R SECTION R403.
THE CRANL SPACE VAPOR RETARDER (BARRIER) IS TO BE PER NC-R SECTION R409.2.

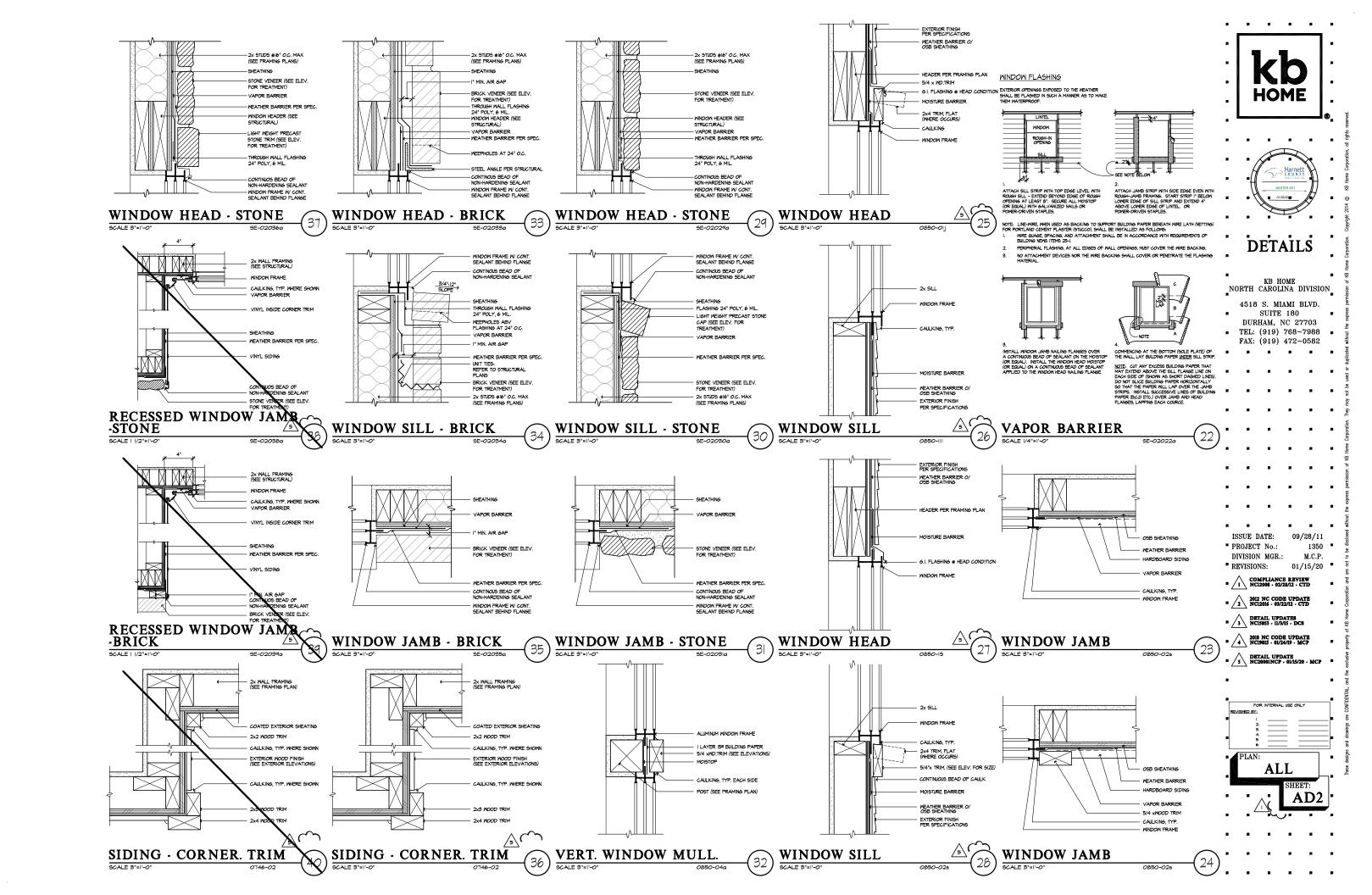
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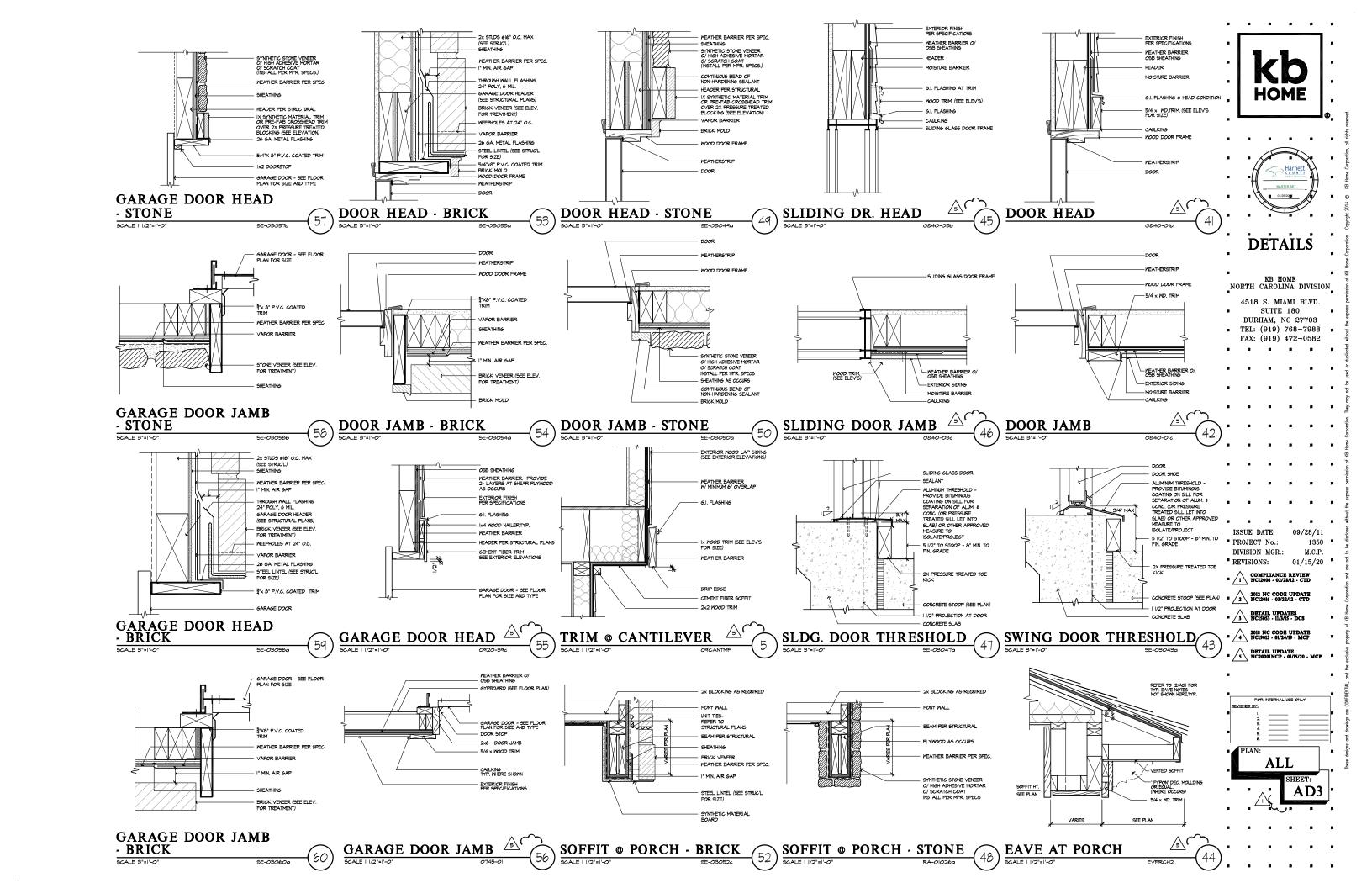
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

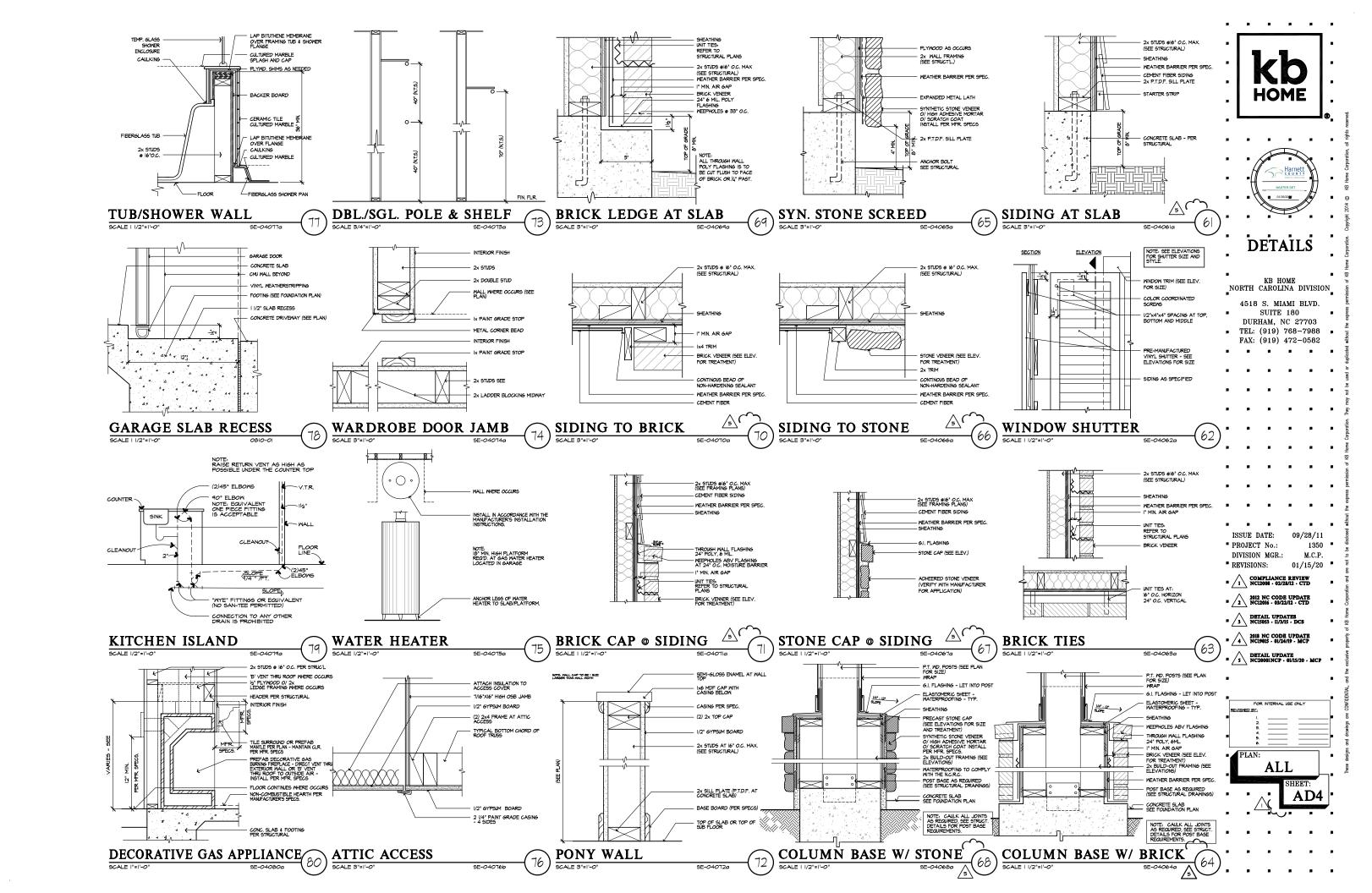
8.6

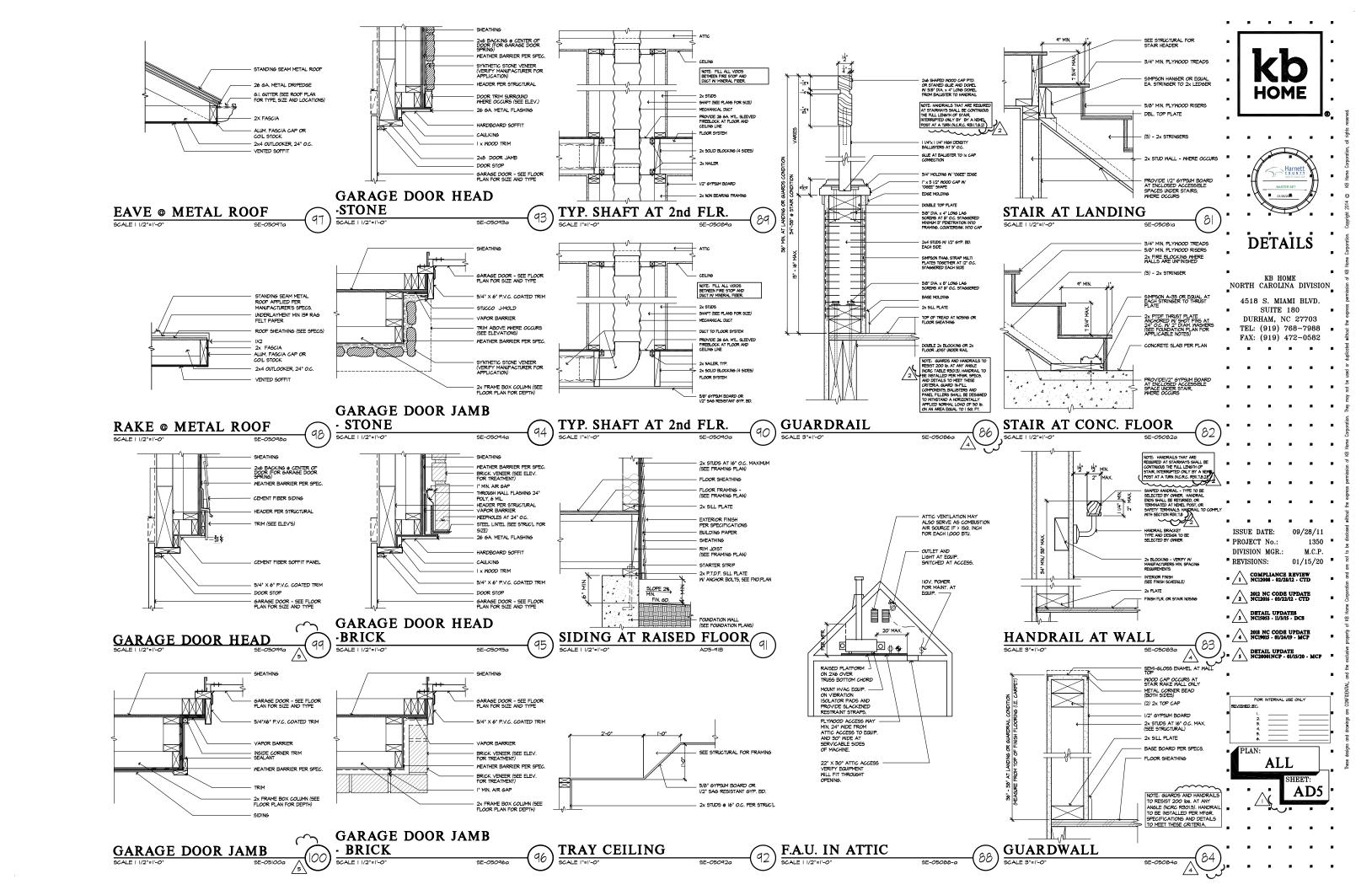
EXTENDED SCREENED-IN DECK AT CRAWL SPACE

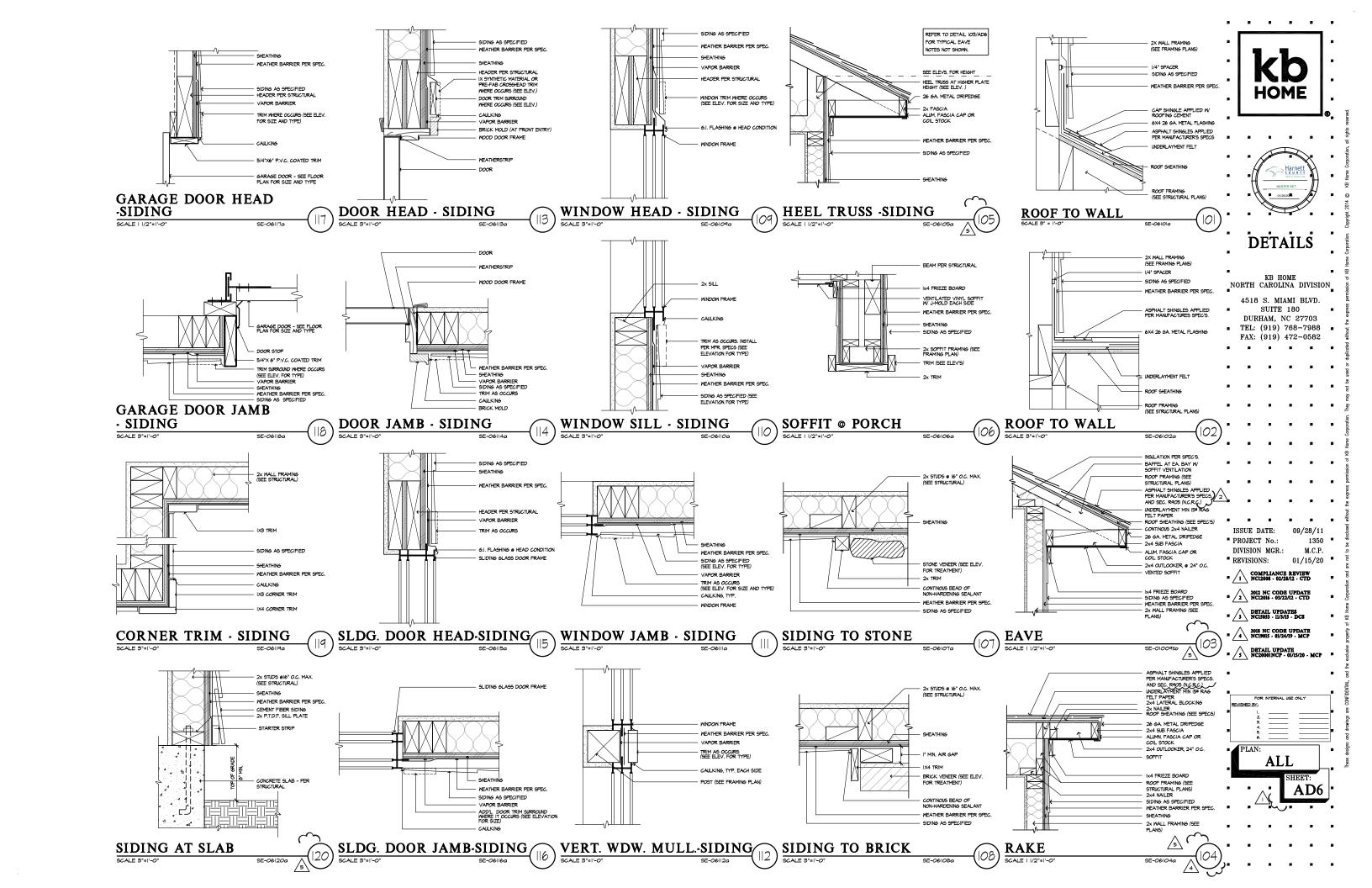


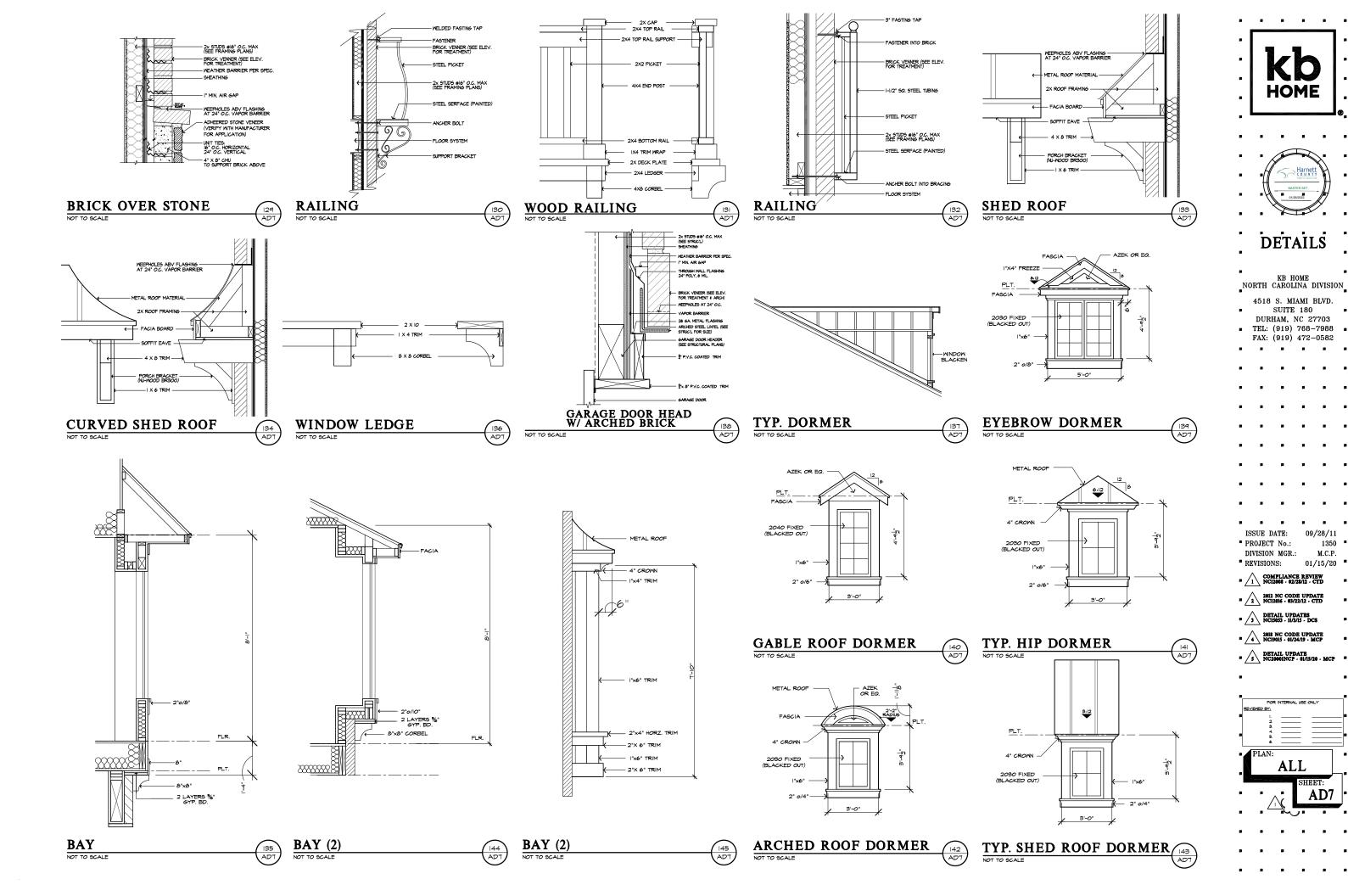










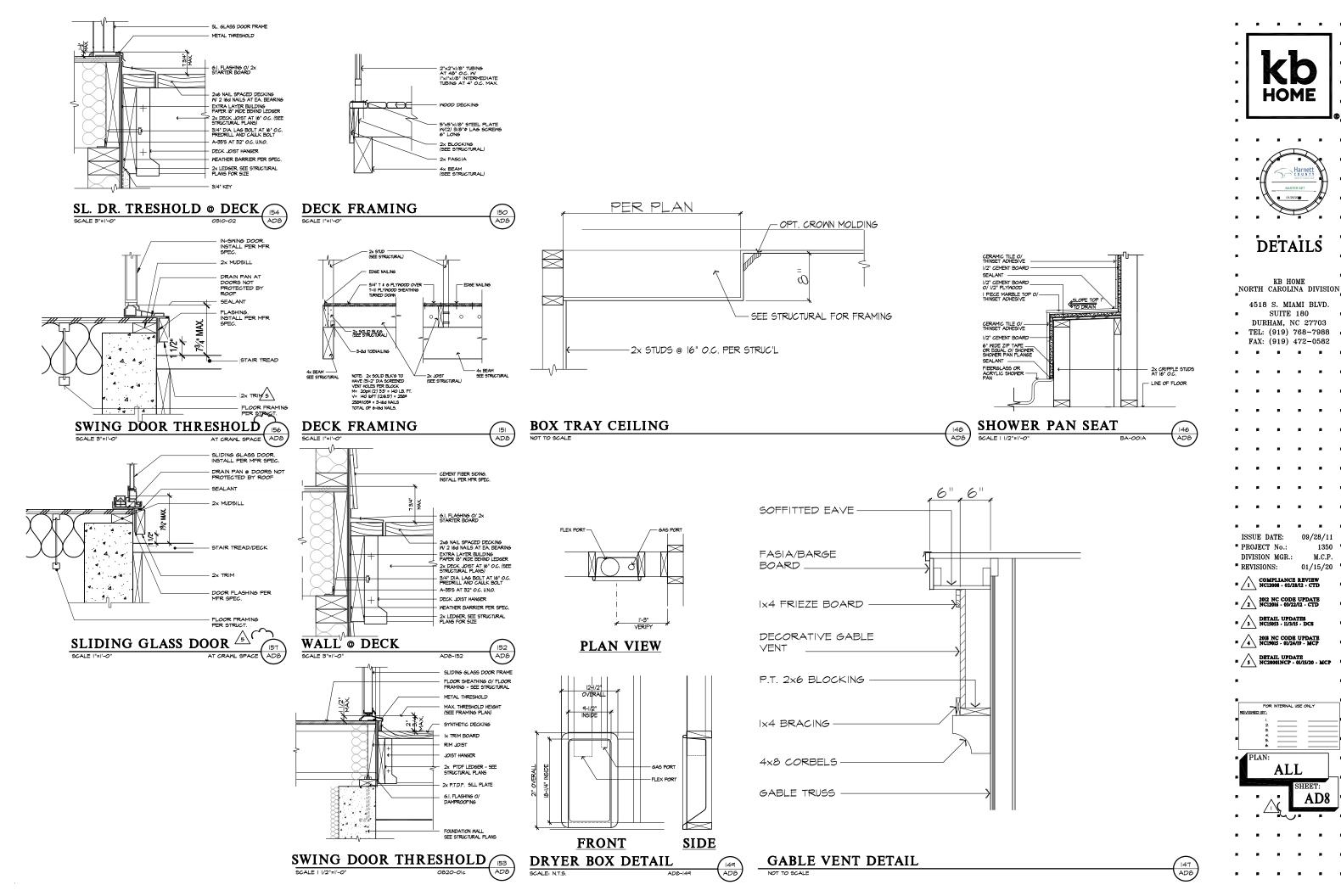


1350

M.C.P.

01/15/20

AD7



M.C.P.

01/15/20

SHEET:

AD8

STRUCTURAL PLANS FOR:



240.2539 - LH GARAGE

PLAN R	ELEASE / REVISIO	NS	
REV. DATE	ARCH PLAN VERSION	REVISION DESCRIPTION	DRF1
02/15/2021	2539-240 LH D0 - 02.10.21	STRUCTURAL SETUP	ABS
03/24/2021	2539-240 LH D1 - 03.16.21	WINDOW REVISED FROM 4030 TO 3030 AT REAR KITCHEN	ABS
05/25/2021	2539-240 LH D1 - 03.16.21	ADDED STEM WALL FOUNDATION AND THE SLAB FIBER NOTES	TRG

NOTES

- 1. ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JDS CONSULTING, PLLC ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. ENGINEER TO BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- 2. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.
- 3. PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:
 - A. IF THESE PLANS ARE ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR 18 MONTHS FROM THE DATE ON THE SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE PLACED IN EFFECT BY THE MUNICIPALITY.
 - B. IF THESE PLANS ARE NOT ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR A CONDITIONAL, ONE-TIME USE FOR THE LOT OR ADDRESS SPECIFIED ON THE TITLE BLOCK

CODE

ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER:

2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE

ENGINEER OF RECORD

JDS Consulting, PLLC

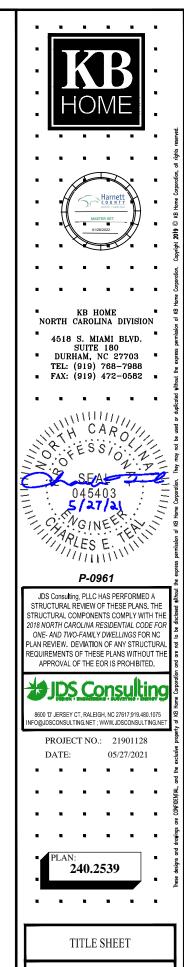
DESIGN · ENGINEERING · SURVEYING · ENERGY

8600 'D' JERSEY COURT

RALEIGH, NC 27617

FIRM LIC. NO: P-0961

PROJECT REFERENCE: 21901128



T

NOTE: ALL CHAPTERS, SECTIONS, TABLES, AND FIGURES CITED WITHOUT A PUBLICATION TITLE ARE FROM THE APPLICABLE RESIDENTIAL CODE (SEE TITLE SHEET).

GENERAL

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. FURTHERMORE, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND SAFETY ON SITE. NOTIFY JDS Consulting, PLLC IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.
- 2. BRACED-WALL DESIGN IS BASED ON <u>SECTION R602.10 WALL</u>
 <u>BRACING.</u> PRIMARY PRESCRIPTIVE METHOD TO BE CS-WSP. SEE
 WALL BRACING PLANS AND DETAILS FOR ADDITIONAL
 INFORMATION.

ALL NON-PRESCRIPTIVE SOLUTIONS ARE BASED ON GUIDELINES ESTABLISHED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION ASCE 7 AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC.

3. SEISMIC DESIGN SHALL BE PER SECTION R301.2.2 - SEISMIC PROVISIONS, INCLUDING ASSOCIATED TABLES AND FIGURES, BASED ON LOCAL SEISMIC DESIGN CATEGORY.

DESIGN LOADS

ASSUMED SOIL BEARING-CAPACITY 2.000 PSF

	LIVE LOAD
ULTIMATE DESIGN WIND SPEED	115 MPH, EXPOSURE B
GROUND SNOW	15 PSF
ROOF	20 PSF
RESIDENTIAL CODE TABLE R301.5	LIVE LOAD (PSF)
DWELLING UNITS	40
SLEEPING ROOMS	30
ATTICS WITH STORAGE	20
ATTICS WITHOUT STORAGE	10
STAIRS	40
DECKS	40
EXTERIOR BALCONIES	60
PASSENGER VEHICLE GARAGES	50
FIRE ESCAPES	40
GUARDS AND HANDRAILS	200 (pounds, concentrated

COMPONENT AND CLADDING LOADS, INCLUDING THOSE FOR DOORS AND WINDOWS, SHALL BE DERIVED FROM TABLES R301.2(2) AND R301.2(3) FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 35 FEET, LOCATED IN EXPOSURE B.

	ABBR	EVIATIONS	KS	KING STUD COLUMN
ABBREVIATIONS			LVL	LAMINATED VENEER
	ABV	ABOVE		LUMBER
	AFF		MAX	MAXIMUM
	ALT		MECH	MECHANICAL
	BRG	BEARING	MFTR	MANUFACTURER
	BSMT	BASEMENT	MIN	MINIMUM
	CANT	CANTILEVER	NTS	NOT TO SCALE
	CJ	CEILING JOIST	OA	OVERALL
	CLG	CEILING	ОС	ON CENTER
	CMU	CONCRETE MASONRY UNIT	PT	PRESSURE TREATED
	CO	CASED OPENING	R	RISER
	COL	COLUMN	REF	REFRIGERATOR
	CONC	CONCRETE	RFG	
	CONT	CONTINUOUS	RO	ROUGH OPENING
	D	CLOTHES DRYER	RS	ROOF SUPPORT
	DBL	DOUBLE	SC	STUD COLUMN
	DIAM	DIAMETER	SF	SQUARE FOOT (FEET)
	DJ	DOUBLE JOIST	SH	SHELF / SHELVES
	DN	DOWN	SHTG	
	DP	DEEP	SHW	
	DR	DOUBLE RAFTER	SIM	
	DSP	DOUBLE STUD POCKET	SJ	SINGLE JOIST
	EA	EACH	SP	
	EE	EACH END		SPECIFIED
	EQ	EQUAL	SQ	SQUARE
	EX	EXTERIOR	T	TREAD
	FAU	FORCED-AIR UNIT	TEMP	TEMPERED GLASS
	FDN	FOUNDATION	THK	THICK(NESS)
	FF	FINISHED FLOOR	TJ	TRIPLE JOIST
	FLR	FLOOR(ING)	тос	TOP OF CURB / CONCRETE
	FP	FIREPLACE	TR	TRIPLE RAFTER
	FTG	FOOTING	TYP	TYPICAL
	HB	HOSE BIBB	UNO	UNLESS NOTED OTHERWIS
	HDR	HEADER	W	CLOTHES WASHER
	HGR	HANGER	WH	
	JS	JACK STUD COLUMN	WWF	
			XJ	EXTRA JOIST

MATERIALS

1. INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (#2 SOUTHERN YELLOW PINE MAY BE SUBSTITUTED):

Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

 FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES:

Fb = 975 PSI Fv = 95 PSI E = 1.6E6 PSI

3. LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2600 PSI Fv = 285 PSI F = 1.9F6 PSI

4. PSL STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2900 PSI Fv = 290 PSI F = 2.0F6 PSI

5. LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI

- STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fy = 50 KSI
- 7. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60.
- POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1157
- CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY PER TABLE R301.2(1) SHALL BE AIR-ENTRAINED WHEN REQUIRED BY TABLE R402.2.
- 10. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.
- 11. MORTAR SHALL COMPLY WITH ASTM INTERNATIONAL STANDARD C270.
- INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND. EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE.
- 13. REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.

FOUNDATION

- MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS FXIST
- 2. CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318.
- 3. MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 AND/OR AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND/OR THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.
- 4. CONCRETE WALL HORIZONTAL REINFORCEMENT TO BE PER TABLE R404.1.2(1) OR AS NOTED OR DETAILED. CONCRETE WALL VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.2(3 AND 4) OR AS NOTED OR DETAILED. ALL CONCRETE WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
 - A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
 - B. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405
- 5. PLAIN-MASONRY WALL DESIGN TO BE PER TABLE R404.1.1(1) OR AS NOTED OR DETAILED. MASONRY WALLS WITH VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.1 (2 THROUGH 4) OR AS NOTED OR DETAILED. ALL MASONRY WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
 - A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
 - B. WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT CENTERED IN WALL).
 - C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.
- 6. WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" OC AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE <u>SECTION R403.1.6</u> FOR SPECIFIC CONDITIONS.
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED, HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.
- 8. CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND GIRDERS SHALL CENTER IN THE MIDDLE THIRD OF THE PIERS.
- ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).
- ALL REBAR NOTED IN CONCRETE TO HAVE AT LEAST 2" COVER FROM EDGE OF CONCRETE TO EDGE OF REBAR.
- 11. FRAMING TO BE FLUSH WITH FOUNDATION WALLS.
- 12. WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

FRAMING

- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.
- 2. ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.
- 3. NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.
- 4. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
- 6. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- PORCH / PATIO COLUMNS TO BE 4x4 MINIMUM PRESSURE-TREATED LUMBER.
 - A. ATTACH PORCH COLUMNS TO SLAB / FDN WALL USING ABA ABU, ABW, OR CPT SIMPSON POST BASES TO FIT COLUMN SIZES NOTED ON PLAN - OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
 - B. ATTACH PORCH COLUMNS TO PORCH BEAMS USING AC OR BC SIMPSON POST CAPS TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
 - C. TRIM OUT COLUMN(S) AND BEAM(S) PER BUILDER AND DETAILS.
- 8. ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.
- ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:
 A. SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION.
 - B. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
 - C. INSTALLATION OF THE SYSTEMS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
 - D. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.
- 10. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS, UNO.
- 11. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS, UNO.
- 12. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.
- 13. WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 12" OC, STAGGERED TOP AND BOTTOM, 1 1/2" MIN FROM ENDS. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE MANUFACTURER SPECIFICATIONS).
- 14. FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).
- 15. FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.
- 16. BRACED WALL PANELS SHALL BE FASTENED TO MEET THE UPLIFT-RESISTANCE REQUIREMENTS IN CHAPTERS 6 AND 8 OF THE APPLICABLE CODE (SEE TITLE SHEET). REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM SHALL BE MET.





KB HOME NORTH CAROLINA DIVISION

- 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703
- TEL: (919) 768-7988

 FAX: (919) 472-0582



P-0961

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PROJECT NO.: 21901128

DATE: 05/27/2021

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PLAN: **240.2539**

GENERAL NOTES

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GN1.0

FASTENER SCHEDULE				
CONNECTION	3" x 0.131" NAIL	3" x 0.120" NAIL		
JOIST TO SILL PLATE	(4) TOE NAILS	(4) TOE NAILS		
SOLE PLATE TO JOIST / BLOCKING	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)		
STUD TO SOLE PLATE	(4) TOE NAILS	(4) TOE NAILS		
TOP OR SOLE PLATE TO STUD	(3) FACE NAILS	(4) FACE NAILS		
RIM JOIST OR BAND JOIST TO TOP PLATE OR SILL PLATE	TOE NAILS @ 6" OC	TOE NAILS @ 4" OC		
BLOCKING BETWEEN JOISTS TO TOP PLATE OR SILL PLATE	(4) TOE NAILS	(4) TOE NAILS		
DOUBLE STUD	NAILS @ 8" OC	NAILS @ 8" OC		
DOUBLE TOP PLATES	NAILS @ 12" OC	NAILS @ 12" OC		
DOUBLE TOP PLATES LAP (24" MIN LAP LENGTH)	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT		
TOP PLATE LAP AT CORNERS AND INTERSECTING WALLS	(3) FACE NAILS	(3) FACE NAILS		
OPEN-WEB TRUSS BOTTOM CHORD TO TOP PLATES OR SILL PLATE (PARALLEL TO WALL)	NAILS @ 6" OC	NAILS @ 4" OC		
BOTTOM CHORD OF TRUSS TO TOP PLATES OR SILL PLATE (PERPENDICULAR TO WALL)	(3) TOE NAILS	(3) TOE NAILS		

SEE TABLE R602.3(1) FOR ADDITIONAL STRUCTURAL-MEMBER FASTENING REQUIREMENTS.

DETAILS AND NOTES ON DRAWINGS GOVERN.

BALLOON WALL FRAMING SCHEDULE (USE THESE STANDARDS UNLESS NOTED OTHERWISE ON THE FRAMING PLAN SHEETS)

FRAMING MEMBER SIZE	MAX HEIGHT (PLATE TO PLATE) 115 MPH ULTIMATE DESIGN WIND SPEED
2x4 @ 16" OC	10'-0"
2x4 @ 12" OC	12'-0"
2x6 @ 16" OC	15'-0"
2x6 @ 12" OC	17'-9"
2x8 @ 16" OC	19'-0"
2x8 @ 12" OC	22'-0"
(2) 2x4 @ 16" OC	14'-6"
(2) 2x4 @ 12" OC	17'-0"
(2) 2vc @ 4c" OC	241.6"
(2) 2x6 @ 16" OC (2) 2x6 @ 12" OC	21'-6" 25'-0"
(2) 220 @ 12 00	20 0
(2) 2x8 @ 16" OC	27'-0"
(2) 2x8 @ 12" OC	31'-0"

- a. ALL HEIGHTS ARE MEASURED SUBFLOOR TO TOP OF WALL PLATE.
- b. WHEN SPLIT-FRAMED WALLS ARE USED FOR HEIGHTS OVER 12', THE CONTRACTOR SHALL ADD 6' MINIMUM OF CS16 COIL STRAPPING (FULLY NAILED), CENTERED OVER THE WALL BREAK.
- c. FINGER-JOINTED MEMBERS MAY BE USED FOR CONTINUOUS HEIGHTS WHERE TRADITIONALLY MILLED LUMBER LENGTHS ARE
- d. FOR GREATER WIND SPEED, SEE ENGINEERED SOLUTION FOR CONDITION IN DRAWINGS.

ROOF SYSTEMS

TRUSSED ROOF - STRUCTURAL NOTES

- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- 2.

DENOTES OVER-FRAMED AREA

- 3. MINIMUM 7/16" OSB ROOF SHEATHING
- 4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- 6. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- 7. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

STICK-FRAMED ROOF - STRUCTURAL NOTES

- 1. PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS. UNLESS NOTED OTHERWISE.
- 2. FUR RIDGES FOR FULL RAFTER CONTACT.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.



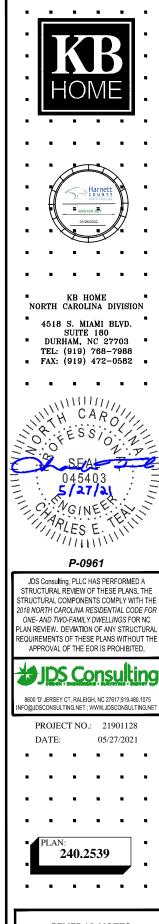
DENOTES OVER-FRAMED AREA

- 5. MINIMUM 7/16" OSB ROOF SHEATHING
- 6. PROVIDE 2x4 RAFTER TIES AT 16" OC AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" OC AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.
- 7. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH
 RAFTER-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS,
 UNLESS NOTED OTHERWISE.
- 8. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR

BRICK VENEER LINTEL SCHEDULE			
SPAN	STEEL ANGLE SIZE	END BEARING LENGTH	
UP TO 42"	L3-1/2"x3-1/2"x1/4"	8" (MIN. @ EACH END)	
UP TO 72"	L6"x4"x5/16"* (LLV)	8" (MIN. @ EACH END)	
OVER 72"	L6"x4"x5/16"* (LLV) ATTACH LINTEL w/ 1/2" THRU BOLT @ 12" OC, 3" FROM EACH END		

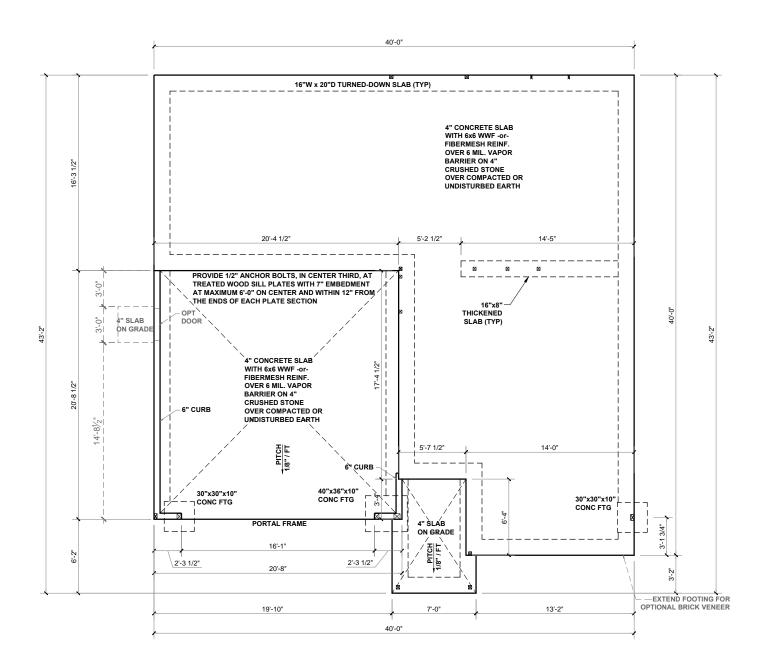
* FOR QUEEN BRICK: LINTELS AT THIS CONDITION MAY BE 5"x3-1/2"x5/16"

NOTE: BRICK LINTELS AT SLOPED AREAS TO BE 4"x3-1/2"x1/4" STEEL ANGLE WITH 16D NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" OC TO TRIPLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3"x3"x1/4" PLATES SHALL BE WELDED AT 24" OC ALONG THE STEEL ANGLE.



GENERAL NOTES

GN1.1



SLAB FOUNDATION PLAN - 'A'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL ---- ROOF RAFTER / TRUSS SUPPORT

- · - · - · DOUBLE RAFTER / DOUBLE JOIST --- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

(1) #5 REBAR @ CENTER OF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.

CONCRETE SLAB REINFORCING SUBSTITUTION OF SYNTHETIC FIBER MIX IN LIEU OF WWF IN NON STRUCTURAL SLABS:

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON RAISED METAL DECKING
 NO SUBSTITUTION ALLOWED IN SLABS WITH GRADE
 BEAMS UNLESS A REBAR MAT IS INSTALLED
 NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN
 FOUND TO BE EXPANSIVE SOILS ON SITE
 NO SUBSTITUTION ALLOWED FOR SLAB POURS

- NO SUBSTITUTION ALLOWED FOR SLAB POURS DIRECTLY ON GRADE; A 4" BASE MATERIAL OF CRUSHED STONE OR WELL DRAINING CLEAN SAND IS REQUIRED FOR SUBSTITUTION NO SUBSTITUTION ALLOWED FOR ANY SITES WITH A DCP BLOW COUNT OF 10 OR LESS.
- FIBER MIX VOLUMES MUST BE FOLLOWED PER THE
- MANUFACTURES SPECIFICATIONS



кв номе NORTH CAROLINA DIVISION

- 4518 S. MIAMI BLVD.
- SUITE 180
 DURHAM, NC 27703
- TEL: (919) 768-7988 ■ FAX: (919) 472-0582 ■



P-0961

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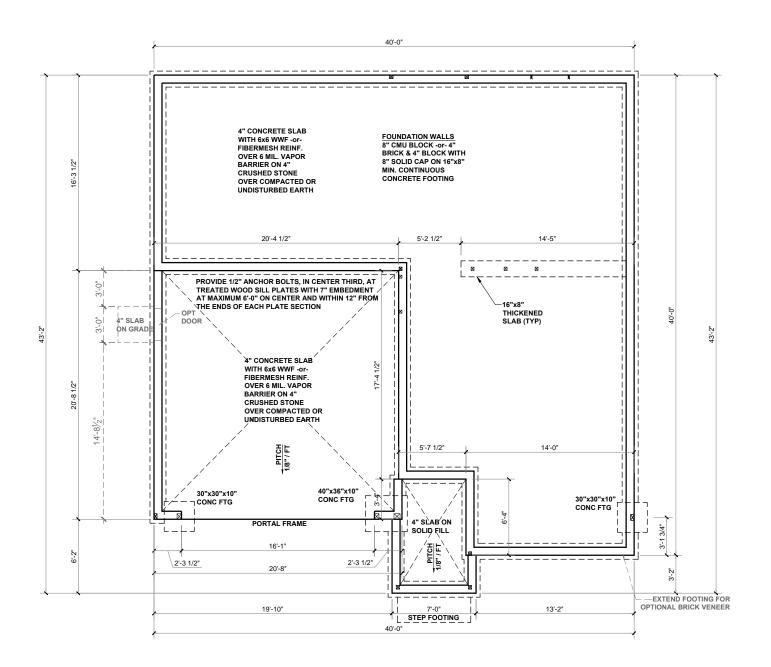
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PROJECT NO.: 21901128 05/27/2021

240.2539

.

SLAB FOUNDATION PLAN



STEM WALL FOUNDATION PLAN - 'A'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL

- · - · - · DOUBLE RAFTER / DOUBLE JOIST

--- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE **BEARING ON BEAM / GIRDER**

(1) #5 REBAR @ CENTER OF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.

CONCRETE SLAB REINFORCING SUBSTITUTION OF SYNTHETIC FIBER MIX IN LIEU OF WWF IN NON STRUCTURAL SLABS:

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON RAISED METAL DECKING NO SUBSTITUTION ALLOWED IN SLABS WITH GRADE BEAMS UNLESS A REBAR MAT IS INSTALLED
- NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN FOUND TO BE EXPANSIVE SOILS ON SITE NO SUBSTITUTION ALLOWED FOR SLAB POURS
- NO SUBSTITUTION ALLOWED FOR SLAB POURS DIRECTLY ON GRADE; A* BASE MATERIAL OF CRUSHED STONE OR WELL DRAINING CLEAN SAND IS REQUIRED FOR SUBSTITUTION NO SUBSTITUTION ALLOWED FOR ANY SITES WITH A DCP BLOW COUNT OF 10 OR LESS.
- FIBER MIX VOLUMES MUST BE FOLLOWED PER THE MANUFACTURES SPECIFICATIONS



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кв номе NORTH CAROLINA DIVISION

- 4518 S. MIAMI BLVD.
- SUITE 180
 DURHAM, NC 27703 TEL: (919) 768-7988
- FAX: (919) 472-0582 ■



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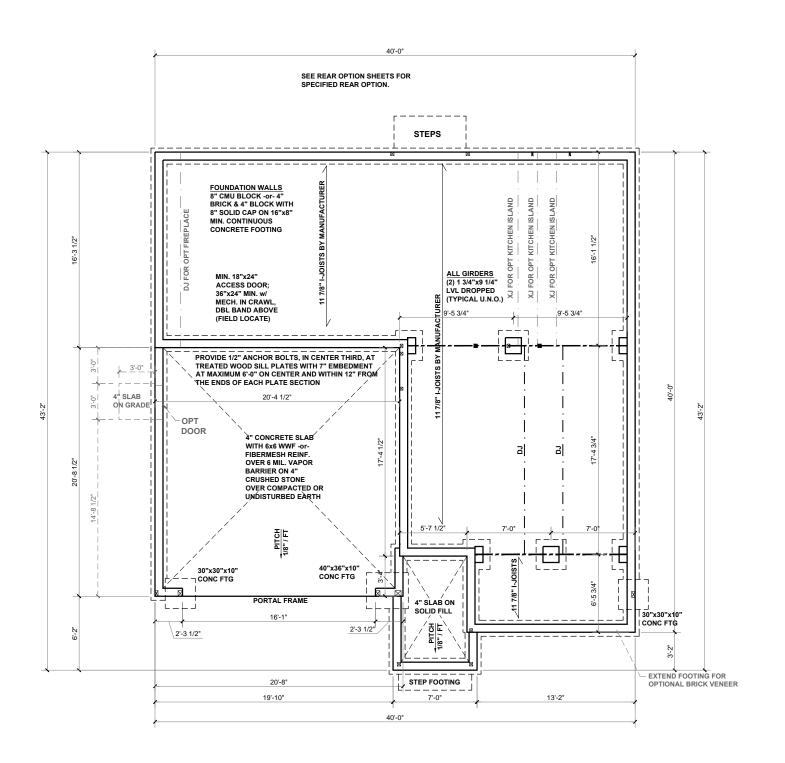
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240.2539

.

STEM WALL FOUNDATION PLAN



CRAWL SPACE FOUNDATION PLAN - 'A'

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

BEAM & POINT LOAD LEGEND

---- DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER
WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

FOUNDATION STRUCTURAL NOTES:

1. CONCRETE BLOCK PIER SIZE SHALL BE:

 SIZE
 HOLLOW MASONRY
 SOLID MASONRY

 8x16
 UP TO 32" HIGH
 UP TO 5'-0" HIGH

12x16 UP TO 48" HIGH UP TO 9'-0" HIGH 16x16 UP TO 64" HIGH UP TO 12'-0" HIGH 24x24 UP TO 96" HIGH

WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.

FLOOR FRAMING TO BE 11 7/8" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

8"x16" PIERS AT FOUNDATION WALL SUPPORTING DROPPED GIRDER TO HAVE A 30"x10"x8" FOOTING PROJECTION FROM THE MAIN WALL FOOTING.

> (1) #5 REBAR @ CENTER OF ALL PERIMETER FOOTINGS. (2" C.C. MIN)



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NORTH CAROLINA DIVISION	
4518 S. MIAMI BLYD. SUITE 180	•
DURHAM, NC 27703	
TEL: (919) 768-7988	
■ FAX: (919) 472-0582 ■	
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P-096

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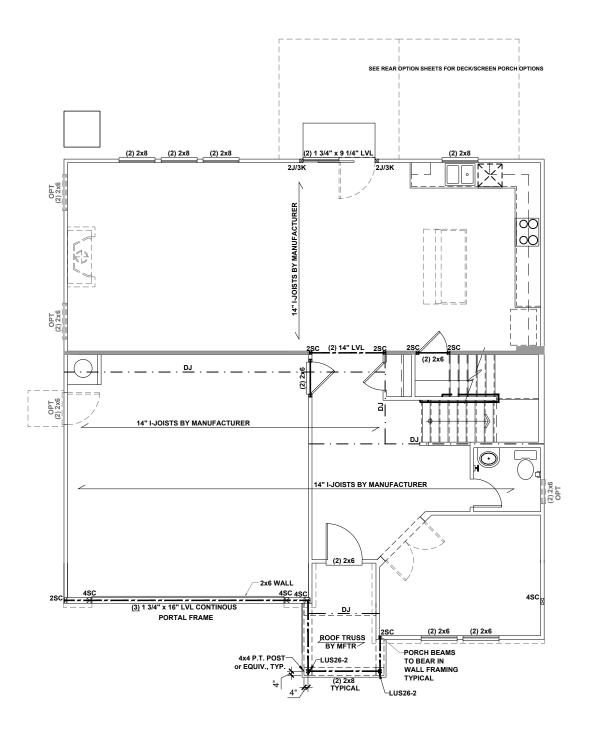
PROJECT NO.: 21901128 DATE: 05/27/2021

PLAN: **240.2539**

CRAWL SPACE FOUNDATION PLAN

.

S.30A



BEAM & POINT LOAD LEGEN

INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

ALL EDAMING TO BE #2 SDE MINIMUM

- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J /
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- 9. FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
- 2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING



Harnett COUNTY C

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4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703

TEL: (919) 768-7988

FAX: (919) 472-0582

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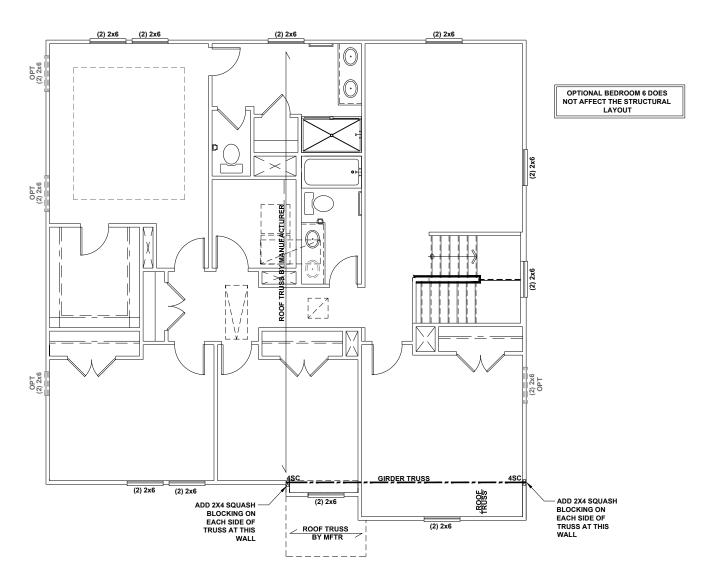
FIRST FLOOR CEILING FRAMING PLAN

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S1.0A

FIRST FLOOR CEILING FRAMING PLAN - 'A'

MASTER BATH OPTIONS DO NOT AFFECT THE STRUCTURAL LAYOUT



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
ON THE ROOF RAFTER / TRUSS SUPPORT
OUBLE RAFTER / DOUBLE JOIST
ON STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER
POINT LOAD TRANSFER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

- ALL FRAMING TO BE #2 SPE MINIMUM
- 2. ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
- 7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- 9. FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTUREN'S SPECIFICATIONS).
- 2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY
(2) 22_STUDS UNLESS OTHERWISE NOTED. STUD
COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO
FOUNDATION OR TO BEARING COMPONENT BELOW.



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KB HOME 'NORTH CAROLINA DIVISION

- 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703
- TEL: (919) 768-7988

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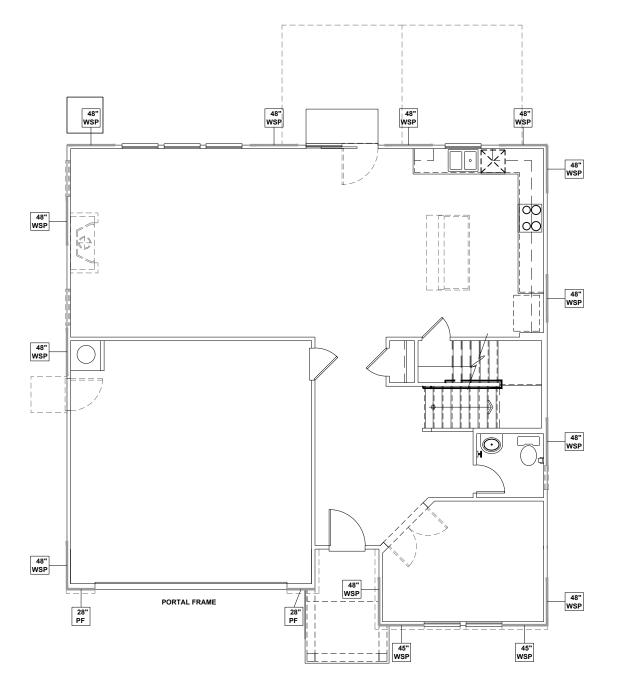
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SECOND FLOOR CEILING FRAMING PLAN

S2.0A

SECOND FLOOR CEILING FRAMING PLAN - 'A'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
 FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S). SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 100 NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICAL
LENGTH
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED

<u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE

AND 8" OC FIELD. FULLY BLOCKED AT ALL

PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	11.0 FT.	14.5 FT.
RIGHT	11.0 FT.	16.0 FT.
REAR	11.0 FT.	16.0 FT.
LEFT	11.0 FT.	16.0 FT.
	•	



Harnett GOUNTY MASTER SET

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988

FAX: (919) 472-0582

SEAL STATES

P-09

JDS Consulting, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS, THE STRUCTURAL COMPONENTS COMPLY WITH THE 2018 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURAL REQUIREMENTS OF THESE PLANS WITHOUT THE APPROVAL OF THE EOR IS PROHIBITED.

JDS Consulting

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PROJECT NO.: 21901128 DATE: 05/27/2021

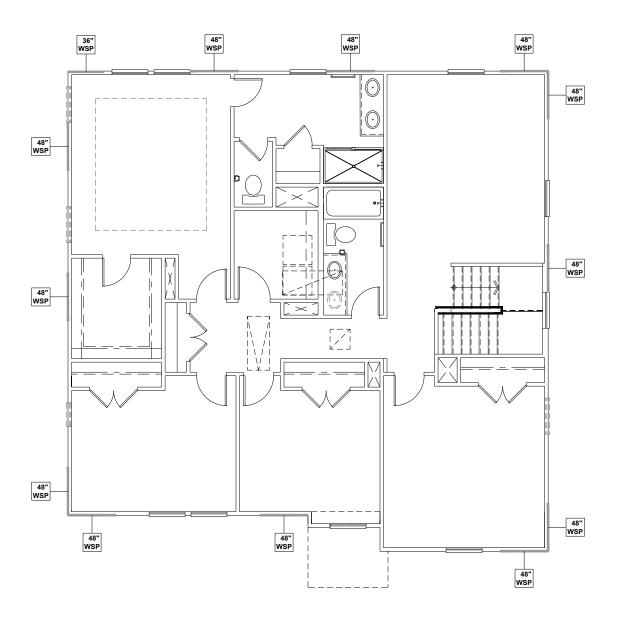
PLAN: 240.2539

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FIRST FLOOR WALL BRACING PLAN

S4.0A

FIRST FLOOR WALL BRACING PLAN - 'A'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
 FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S). - SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

INSIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 104 NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED

<u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE

AND 8" OC FIELD. FULLY BLOCKED AT ALL

PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	6.0 FT.	12.0 FT.
RIGHT	6.0 FT.	12.0 FT.
REAR	6.0 FT.	13.0 FT.
LEFT	6.0 FT.	12.0 FT.



Harnett County

Self-County

Se

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4518 S. MIAMI BLYD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988

FAX: (919) 472-0582

SEAL O45403 5/27/21 O45403 F/27/21

P-0961

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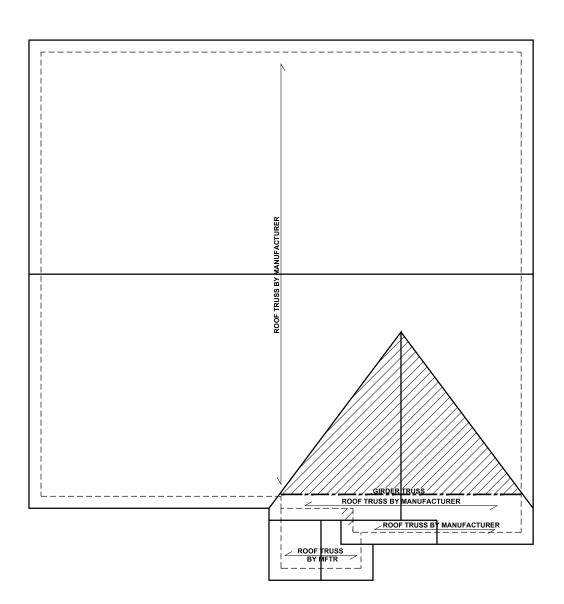
PLAN: **240.2539**

SECOND FLOOR

S5.0A

WALL BRACING PLAN

SECOND FLOOR WALL BRACING PLAN - 'A'



ROOF FRAMING PLAN - 'A'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
---- ROOF RAFTER / TRUSS SUPPORT
----- DOUBLE RAFTER / DOUBLE JOIST

--- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER
POINT LOAD FROM ABOVE

BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

 PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

2.

DENOTES OVER-FRAMED AREA

- 3. MINIMUM 7/16" OSB ROOF SHEATHING
- 4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

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

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF PLAN

CONNECTOR
NAILING PER TABLE 602.3(1)
NCRBC 2018 EDITION

OVER 28'

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

OR (1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE KB

Harnett COUNTY MAGTER ET 0/0500022

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD.
SUITE 180
DURHAM, NC 27703

TEL: (919) 768-7988
FAX: (919) 472-0582

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P-0961

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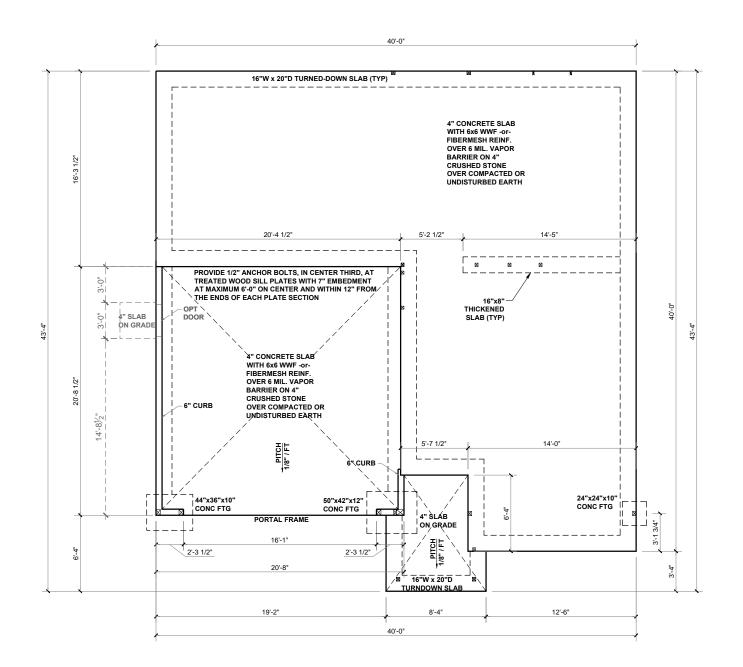
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PLAN: **240.2539**

ROOF FRAMING PLAN

.

S7.0A



SLAB FOUNDATION PLAN - 'B'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL ---- ROOF RAFTER / TRUSS SUPPORT

- · - · - · DOUBLE RAFTER / DOUBLE JOIST --- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE **BEARING ON BEAM / GIRDER**

(1) #5 REBAR @ CENTER OF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.

CONCRETE SLAB REINFORCING SUBSTITUTION OF SYNTHETIC FIBER MIX IN LIEU OF WWF IN NON STRUCTURAL SLABS:

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON RAISED METAL DECKING
 NO SUBSTITUTION ALLOWED IN SLABS WITH GRADE BEAMS UNLESS A REBAR MAT IS INSTALLED
 NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN FOUND TO BE EXPANSIVE SOILS ON SITE
 NO SUBSTITUTION ALLOWED FOR SLAB POURS

- NO SUBSTITUTION ALLOWED FOR SLAB POURS DIRECTLY ON GRADE; A 4" BASE MATERIAL OF CRUSHED STONE OR WELL DRAINING CLEAN SAND IS REQUIRED FOR SUBSTITUTION NO SUBSTITUTION ALLOWED FOR ANY SITES WITH A DCP BLOW COUNT OF 10 OR LESS.
- FIBER MIX VOLUMES MUST BE FOLLOWED PER THE MANUFACTURES SPECIFICATIONS



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- 4518 S. MIAMI BLVD.
- SUITE 180
 DURHAM, NC 27703 TEL: (919) 768-7988
- FAX: (919) 472-0582 ■



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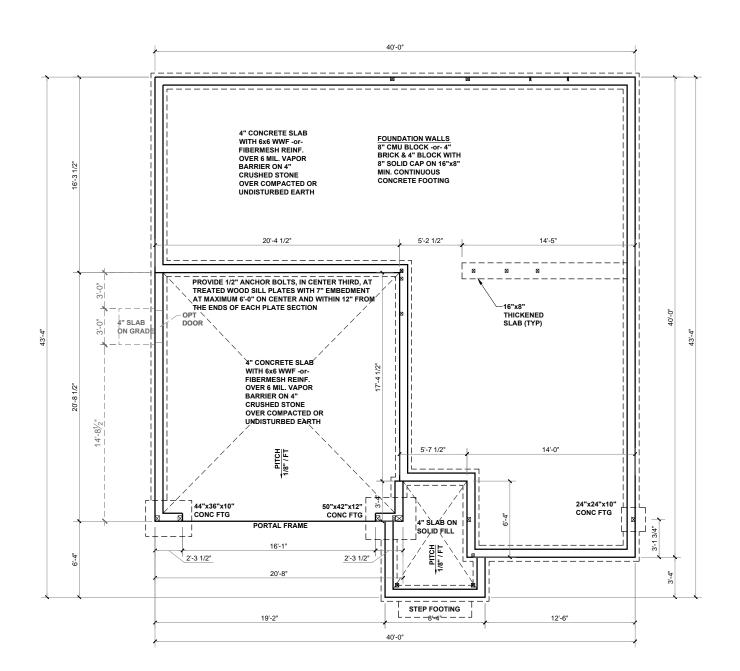
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PROJECT NO.: 21901128 05/27/2021

240.2539

SLAB FOUNDATION PLAN

.



STEM WALL FOUNDATION PLAN - 'B'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL

- · - · - · DOUBLE RAFTER / DOUBLE JOIST

--- STRUCTURAL BEAM / GIRDER WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE **BEARING ON BEAM / GIRDER**

(1) #5 REBAR @ CENTER OF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.

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- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON RAISED METAL DECKING NO SUBSTITUTION ALLOWED IN SLABS WITH GRADE BEAMS UNLESS A REBAR MAT IS INSTALLED

- BEAMS UNLESS A REBAR MAT IS INSTALLED
 NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN
 FOUND TO BE EXPANSIVE SOILS ON SITE
 NO SUBSTITUTION ALLOWED FOR SLAB POURS
 DIRECTLY ON GRADE; A "B BASE MATERIAL OF
 CRUSHED STONE OR WELL DRAINING CLEAN SAND IS
 REQUIRED FOR SUBSTITUTION
 NO SUBSTITUTION ALLOWED FOR ANY SITES WITH A
 DCP BLOW COUNT OF 10 OR LESS.
 EIREP MIX YOU LIMES MIXTS RE FOLLOWED DER THE
- FIBER MIX VOLUMES MUST BE FOLLOWED PER THE MANUFACTURES SPECIFICATIONS



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- SUITE 180
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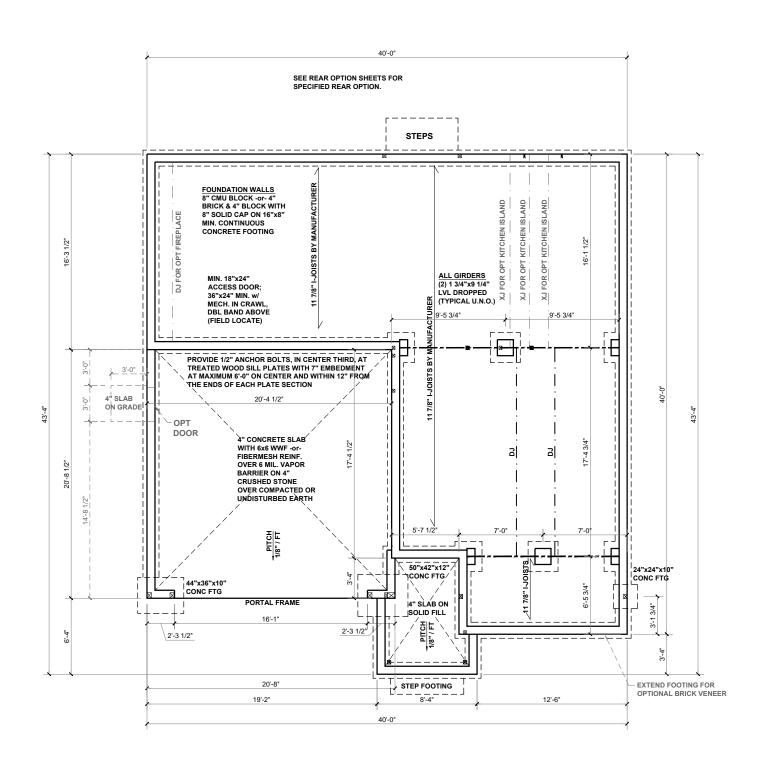
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PROJECT NO.: 21901128 05/27/2021

240.2539

> STEM WALL FOUNDATION PLAN



CRAWL SPACE FOUNDATION PLAN - 'B'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
--- ROOF RAFTER / TRUSS SUPPOR

- · - · - · DOUBLE RAFTER / DOUBLE JOIST

---- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER
POINT LOAD FROM ABOVE

BEARING ON BEAM / GIRDER

I-JO**rstusidaction isorticteralero**orses":0C In Locations with tile finish floor

SIZE HOLLOW MASONRY SOLID MASONRY
(1) #5 REBAR @ CENTER OF ALL PERIMETER AND INTERPRETATION OF A STANDARD OF THE PERIMETER AND INTERPRETATION OF THE PERIMETER AND INTERPRETAT

4x24 UP TO 96" HIGH

WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.

FLOOR FRAMING TO BE 11 7/8" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

8"x16" PIERS AT FOUNDATION WALL SUPPORTING DROPPED GIRDER TO HAVE A 30"x10"x8" FOOTING PROJECTION FROM THE MAIN WALL FOOTING.

> (1) #5 REBAR @ CENTER OF ALL PERIMETER FOOTINGS. (2" C.C. MIN)



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Harnett COUNTY ROPETH CARBULHA	١
01/26/2022	/

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TEL: (919) 768-7988

FAX: (919) 472-0582

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P-096

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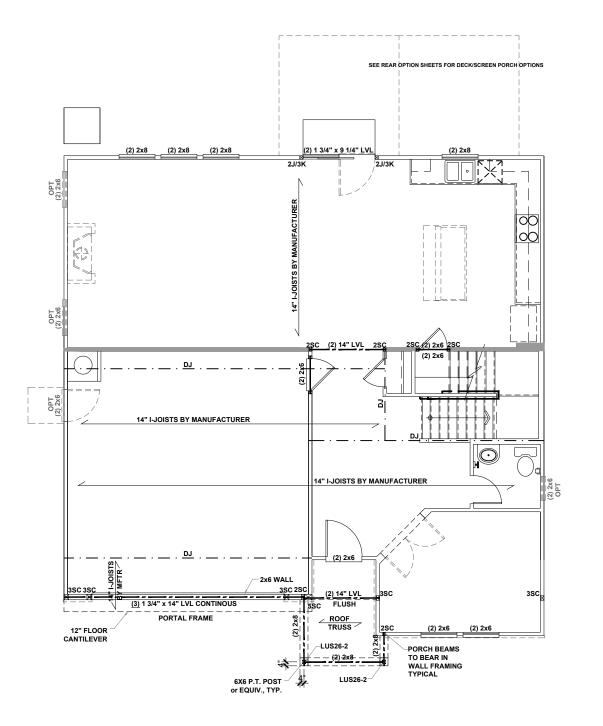
PROJECT NO.: 21901128 DATE: 05/27/2021

PLAN: **240.2539**

CRAWL SPACE FOUNDATION PLAN

.

S.30B



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

- ALL EDAMINO TO DE #0 ODE MINIMUM
- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- 3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J
- 5. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
- 7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- 9. FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTUREN'S SPECIFICATIONS).
- FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSTALE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING



Harnett COUNTY MAGTER BY 0178/2022

KB HOME NORTH CAROLINA DIVISION

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P-0961

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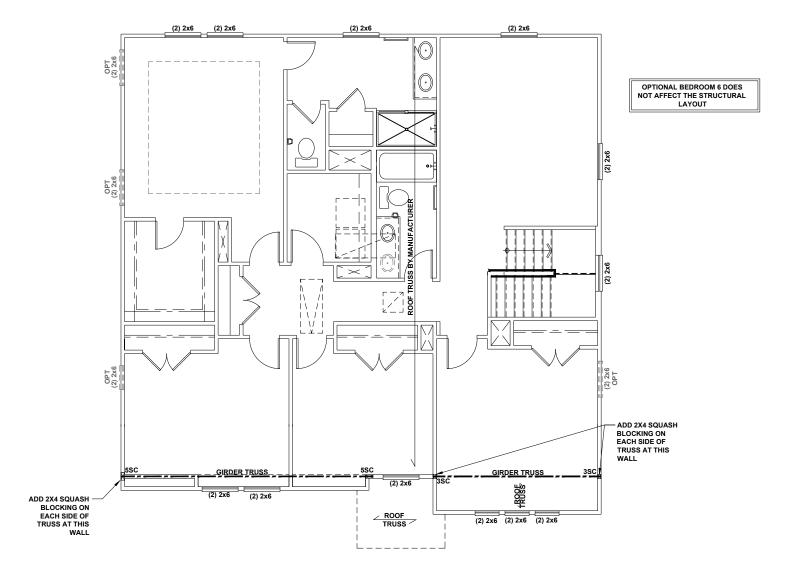
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FIRST FLOOR CEILING FRAMING PLAN

S1.0B

FIRST FLOOR CEILING FRAMING PLAN - 'B'

MASTER BATH OPTIONS DO NOT AFFECT THE STRUCTURAL LAYOUT



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
ON ROOF RAFTER / TRUSS SUPPORT
OUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER
WINDOW / DOOR HEADER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

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- 9. FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
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- 1. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTUREN'S SPECIFICATIONS).
- 2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INS16 FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY
(2) 22_STUDS UNLESS OTHERWISE NOTED. STUD
COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO
FOUNDATION OR TO BEARING COMPONENT BELOW.



Harnett County Williams American Britans

KB HOME NORTH CAROLINA DIVISION

- 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703
- TEL: (919) 768-7988
 FAX: (919) 472-0582



P-0961

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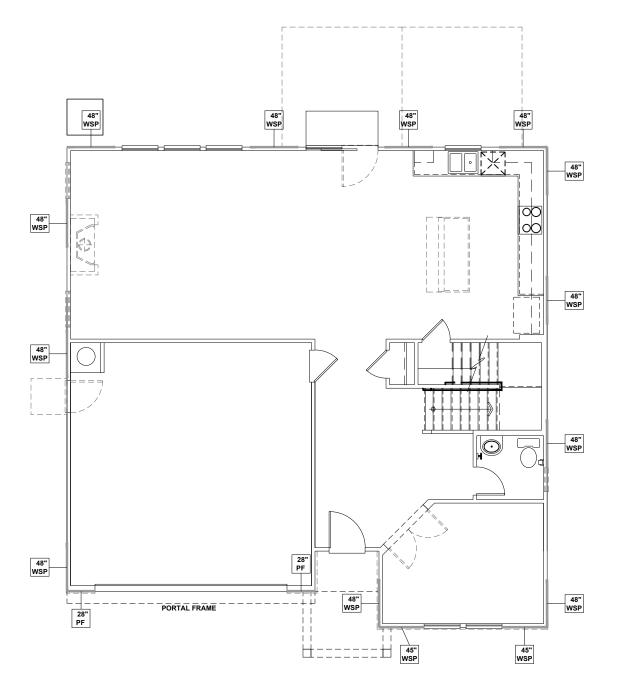
PLAN: **240.2539**

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SECOND FLOOR CEILING FRAMING PLAN

S2.0B

SECOND FLOOR CEILING FRAMING PLAN - 'B'



- MINIMUM PANEL WIDTH IS 24"
 FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
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- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S). - SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 104 NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/ SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED

<u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE

AND 8" OC FIELD. FULLY BLOCKED AT ALL

PANEL EDGES.

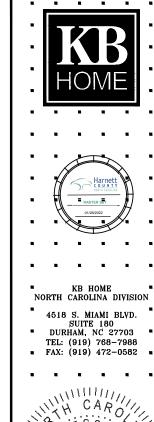
ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	11.0 FT.	14.5 FT.
RIGHT	11.0 FT.	16.0 FT.
REAR	11.0 FT.	16.0 FT.
LEFT	11.0 FT.	16.0 FT.



P-0961

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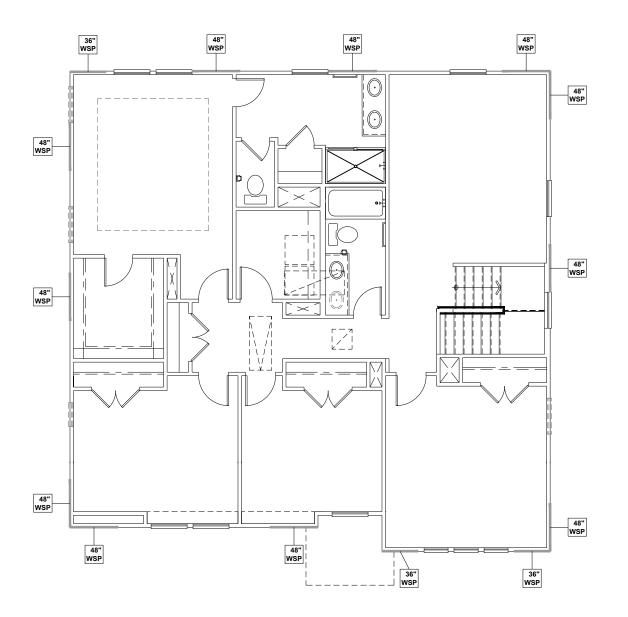
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FIRST FLOOR

240.2539

S4.0B

FIRST FLOOR WALL BRACING PLAN - 'B'



- MINIMUM PANEL WIDTH IS 24"
 FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S). SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



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SCALED LENGTH
OF WALL PANEL
AT LOCATION

OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED

<u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE

AND 8" OC FIELD. FULLY BLOCKED AT ALL

PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

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WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	6.0 FT.	14.0 FT.
RIGHT	6.0 FT.	12.0 FT.
REAR	6.0 FT.	13.0 FT.
LEFT	6.0 FT.	12.0 FT.



NORTH CAROLINA DIVISION
4518 S. MIAMI BLVD.

SUITE 180
DURHAM, NC 27703
TEL: (919) 768-7988
FAX: (919) 472-0582

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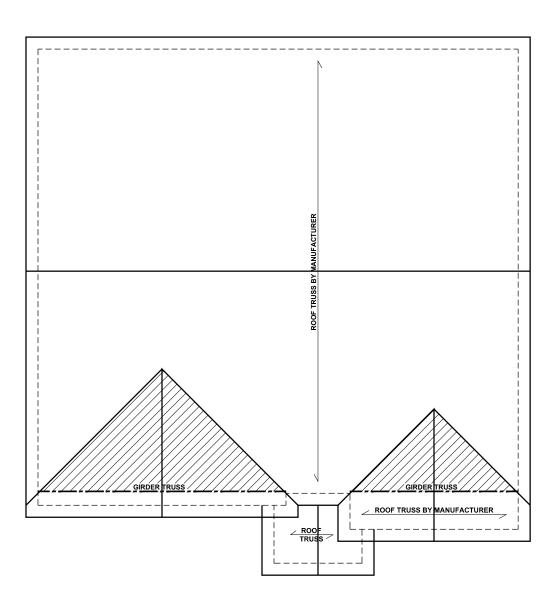
PLAN: **240.2539**

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SECOND FLOOR WALL BRACING PLAN

S5.0B

SECOND FLOOR WALL BRACING PLAN - 'B'



ROOF FRAMING PLAN - 'B'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
---- ROOF RAFTER / TRUSS SUPPORT
----- DOUBLE RAFTER / DOUBLE JOIST

----- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

☑ POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

 PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

2.

DENOTES OVER-FRAMED AREA

- 3. MINIMUM 7/16" OSB ROOF SHEATHING
- 4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- . PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

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

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF PLAN

CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION

OVER 28'

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

OR (1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE



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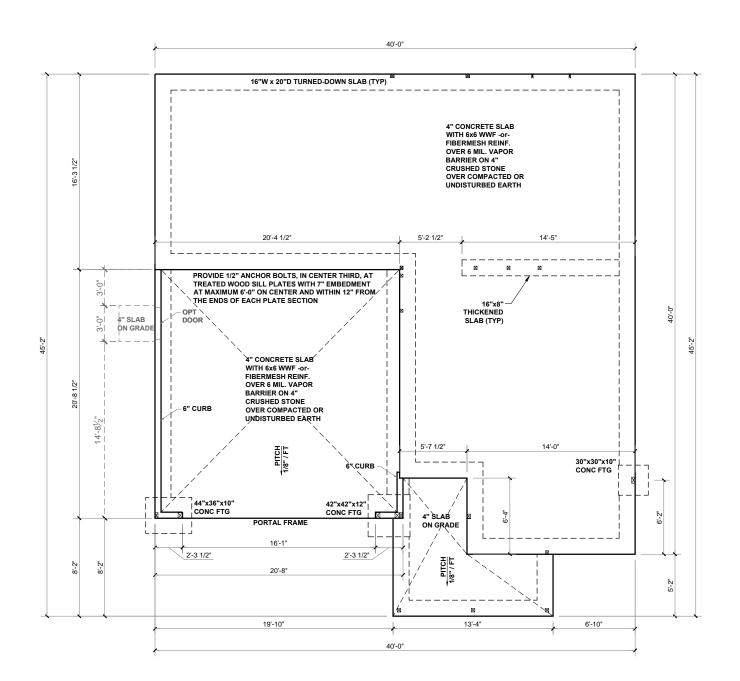
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ROOF FRAMING PLAN

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S7.0B



SLAB FOUNDATION PLAN - 'C'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL ---- ROOF RAFTER / TRUSS SUPPORT

- · - · - · DOUBLE RAFTER / DOUBLE JOIST --- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE **BEARING ON BEAM / GIRDER**

(1) #5 REBAR @ CENTER OF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.

CONCRETE SLAB REINFORCING SUBSTITUTION OF SYNTHETIC FIBER MIX IN LIEU OF WWF IN NON STRUCTURAL SLABS:

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON RAISED METAL DECKING
 NO SUBSTITUTION ALLOWED IN SLABS WITH GRADE BEAMS UNLESS A REBAR MAT IS INSTALLED
 NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN FOUND TO BE EXPANSIVE SOILS ON SITE
 NO SUBSTITUTION ALLOWED FOR SLAB POURS NO SUBSTITUTION ALLOWED FOR SLAB POURS DIRECTLY ON GRADE; A 4" BASE MATERIAL OF CRUSHED STONE OR WELL DRAINING CLEAN SAND IS REQUIRED FOR SUBSTITUTION NO SUBSTITUTION ALLOWED FOR ANY SITES WITH A DCP BLOW COUNT OF 10 OR LESS.
- FIBER MIX VOLUMES MUST BE FOLLOWED PER THE MANUFACTURES SPECIFICATIONS



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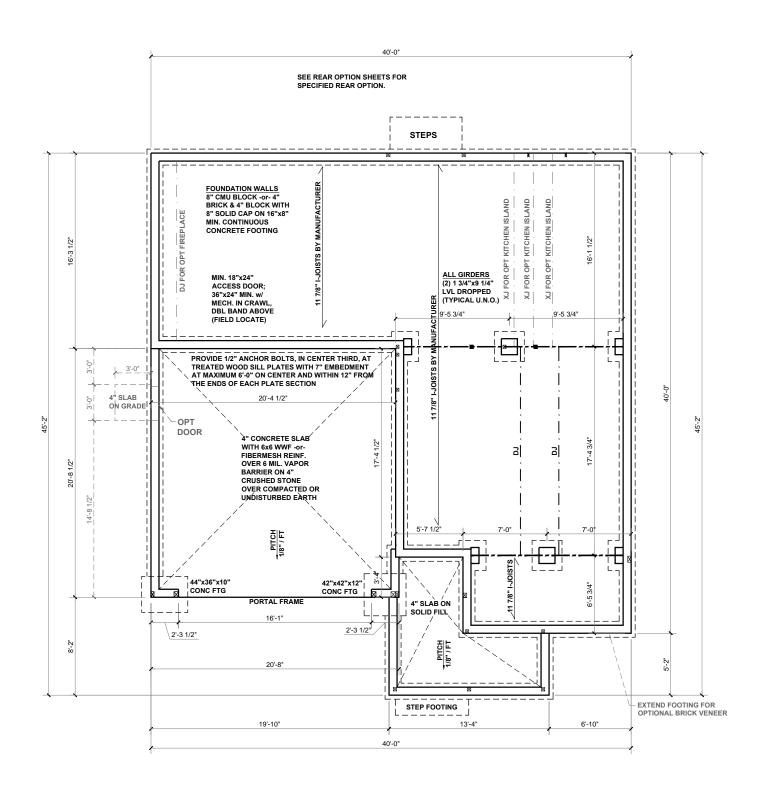
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PROJECT NO.: 21901128 05/27/2021

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SLAB FOUNDATION PLAN

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CRAWL SPACE FOUNDATION PLAN - 'C'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
--- ROOF RAFTER / TRUSS SUPPOR

---- DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER
WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

I-JO<u>RSTUSIPACTIONS ISORUTCTER ARE HOOTSES'</u>OC IN LOCATIONS WITH TILE FINISH FLOOR

SIZE HOLLOW MASONRY SOLID MASONRY
(1) #5 REBAR @ CENTER OF ALL PERIMETER AND
IRYERNAL LOKO 1992 AND 1997 AND 19

4x24 UP TO 96" HIGH

WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.

FLOOR FRAMING TO BE 11 7/8" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

8"x16" PIERS AT FOUNDATION WALL SUPPORTING DROPPED GIRDER TO HAVE A 30"x10"x8" FOOTING PROJECTION FROM THE MAIN WALL FOOTING.

> (1) #5 REBAR @ CENTER OF ALL PERIMETER FOOTINGS. (2" C.C. MIN)



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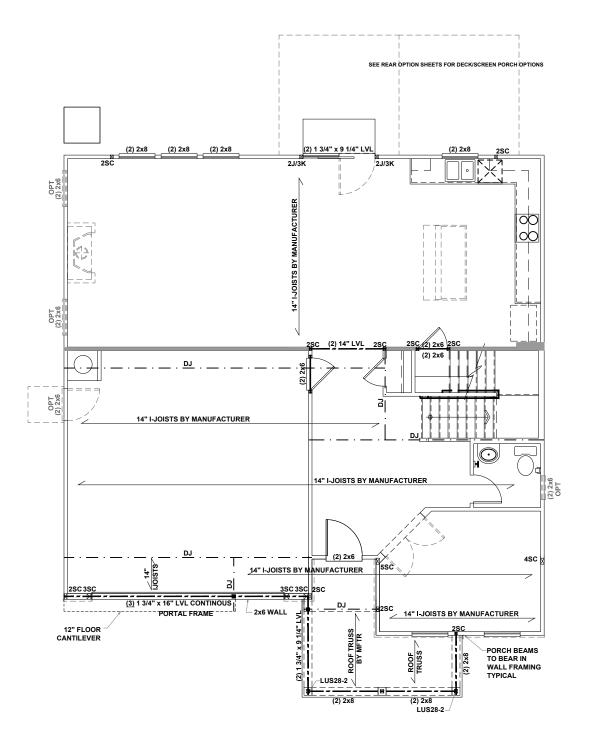
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PLAN: 240.2539

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CRAWL SPACE FOUNDATION PLAN

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BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
ON THE ROOF RAFTER / TRUSS SUPPORT
OUBLE RAFTER / DOUBLE JOIST
STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

4 ALL EDAMING TO DE #2 CDE MINIMUM

- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- 3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J /
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- . ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
- 7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- 9. FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
- 2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING



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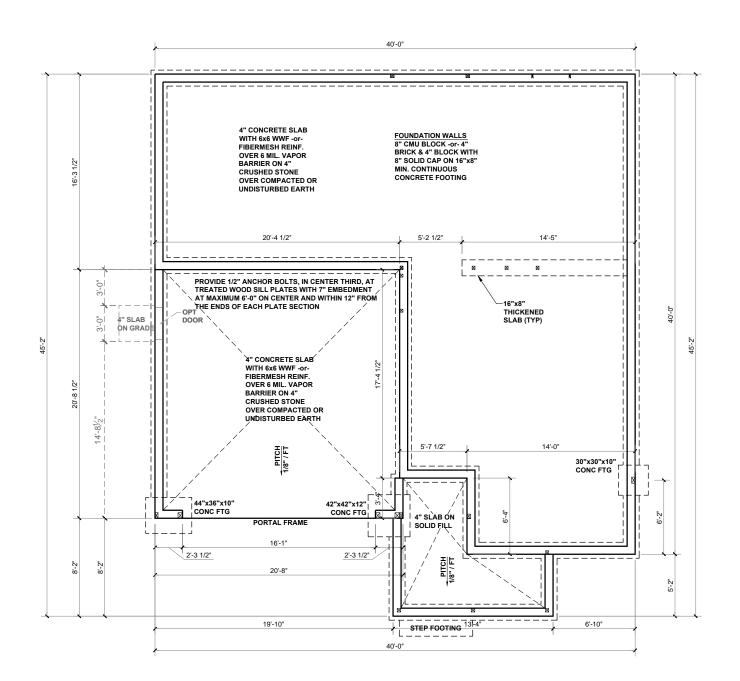
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FIRST FLOOR CEILING FRAMING PLAN

S1.0C

FIRST FLOOR CEILING FRAMING PLAN - 'C'



STEM WALL FOUNDATION PLAN - 'C'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL

- · - · - · DOUBLE RAFTER / DOUBLE JOIST

--- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER POINT LOAD TRANSFER

POINT LOAD FROM ABOVE **BEARING ON BEAM / GIRDER**

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- NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN FOUND TO BE EXPANSIVE SOILS ON SITE NO SUBSTITUTION ALLOWED FOR SLAB POURS NO SUBSTITUTION ALLOWED FOR SLAB POURS DIRECTLY ON GRADE; A* BASE MATERIAL OF CRUSHED STONE OR WELL DRAINING CLEAN SAND IS REQUIRED FOR SUBSTITUTION NO SUBSTITUTION ALLOWED FOR ANY SITES WITH A DCP BLOW COUNT OF 10 OR LESS.
- FIBER MIX VOLUMES MUST BE FOLLOWED PER THE MANUFACTURES SPECIFICATIONS



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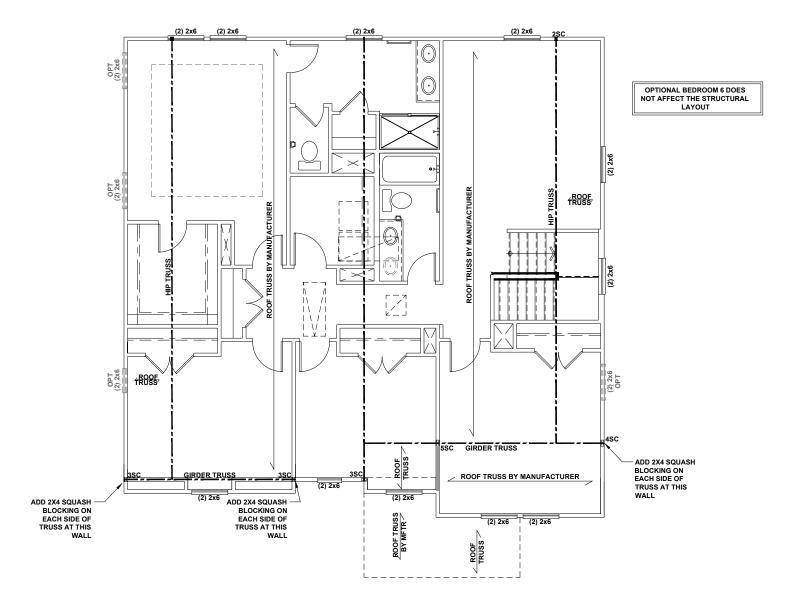
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STEM WALL FOUNDATION PLAN

MASTER BATH OPTIONS DO NOT AFFECT THE STRUCTURAL LAYOUT



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
---- ROOF RAFTER / TRUSS SUPPORT
----- DOUBLE RAFTER / DOUBLE JOIST

DOUBLE RAFTER / DOUBLE JO
 STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER
POINT LOAD TRANSFER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

- ALL EDAMING TO BE #2 SBE MINIMUM
- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K. UNO.
- 5. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
- 7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- 9. FRONT PORCH COLUMNS TO BE MIN 4x4 PT
 ATTACHED AT TOP AND BOTTOM USING SIMPSON
 (OR EQUIV) COLUMN BASE OR SST A24
 BRACKETS. TRIM OUT PER BUILDER.
- PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- 11. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTUREN'S SPECIFICATIONS).
- 2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.



Harnett County

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703

TEL: (919) 768-7988
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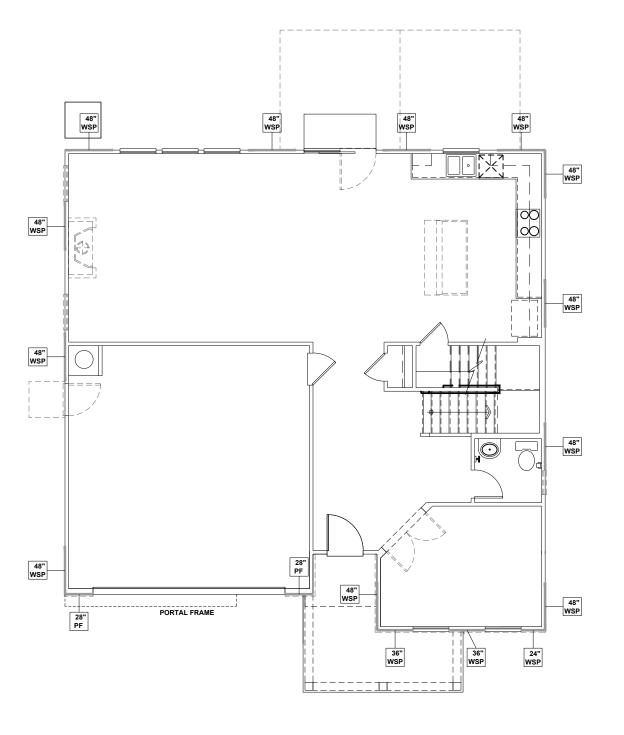
PLAN: 240.2539

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SECOND FLOOR CEILING FRAMING PLAN

S2.0C

SECOND FLOOR CEILING FRAMING PLAN - 'C'



- MINIMUM PANEL WIDTH IS 24"
 FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S). SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 100 NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W SIMILAR LENGTH AND NAILING PATTERN.) USE HT14 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED

<u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE

AND 8" OC FIELD. FULLY BLOCKED AT ALL

PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	11.0 FT.	15.0 FT.
RIGHT	11.0 FT.	16.0 FT.
REAR	11.0 FT.	16.0 FT.
LEFT	11.0 FT.	16.0 FT.



Harnett COUNTY OF THE PROPERTY OF THE PROPERTY

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLYD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988

■ FAX: (919) 472-0582 ■

CAROLLA CAROLL

P-0961

JDS Consulting, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS, THE STRUCTURAL COMPONENTS COMPLY WITH THE 2018 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURAL REQUIREMENTS OF THESE PLANS WITHOUT THE APPROVAL OF THE EOR IS PROHIBITED.

JDS Consulting

8600 'D' JERSEY CT, RALEIGH, NC 27617;919.480.107

PROJECT NO.: 21901128 DATE: 05/27/2021

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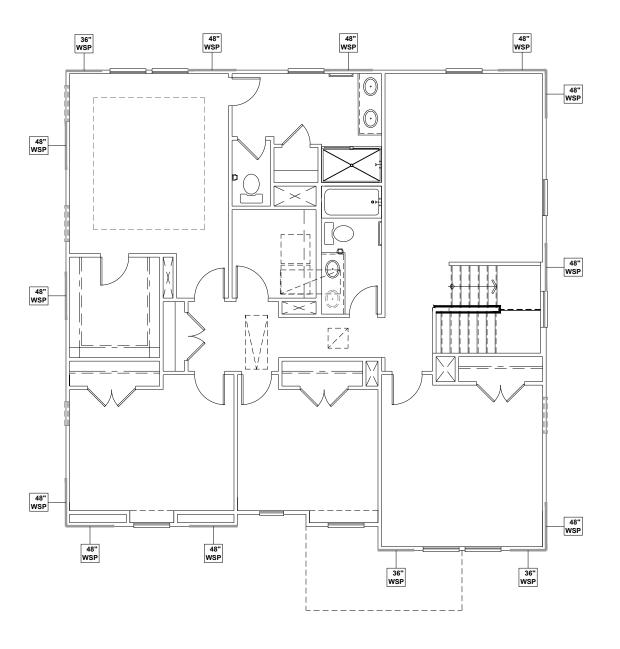
PLAN: **240.2539**

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FIRST FLOOR WALL BRACING PLAN

S4.0C

FIRST FLOOR WALL BRACING PLAN - 'C'



- MINIMUM PANEL WIDTH IS 24"
 FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
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CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

IMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

SCALED LENGTH
OF WALL PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED

<u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE

AND 8" OC FIELD. FULLY BLOCKED AT ALL

PANEL EDGES.

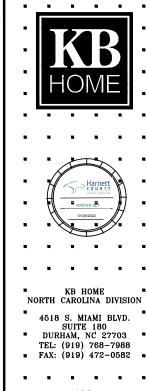
ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

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WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	10.0 FT.	14.0 FT.
RIGHT	10.0 FT.	12.0 FT.
REAR	10.0 FT.	13.0 FT.
LEFT	10.0 FT.	12.0 FT.



P-0961

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JDS Consulting

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PROJECT NO.: 21901128
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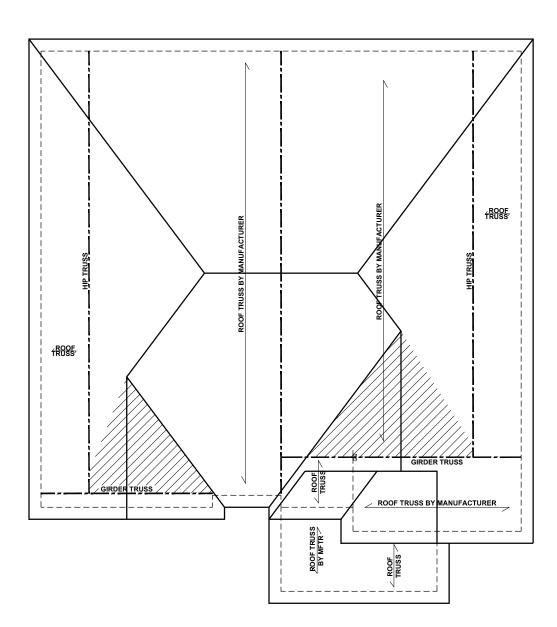
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SECOND FLOOR WALL BRACING PLAN

S5.0C

SECOND FLOOR WALL BRACING PLAN - 'C'



ROOF FRAMING PLAN - 'C'

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

BEAM & POINT LOAD LEGEND

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER
POINT LOAD TRANSFER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE
BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

1. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

2.

DENOTES OVER-FRAMED AREA

- B. MINIMUM 7/16" OSB ROOF SHEATHING
- 4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

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

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF PLAN

CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION

OVER 28'

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

BEAM
OR (1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE



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4518 S. MIAMI BLYD. SUITE 180 DURHAM, NC 27703

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FAX: (919) 472-0582

SEAL STATES ELLING

P-0961

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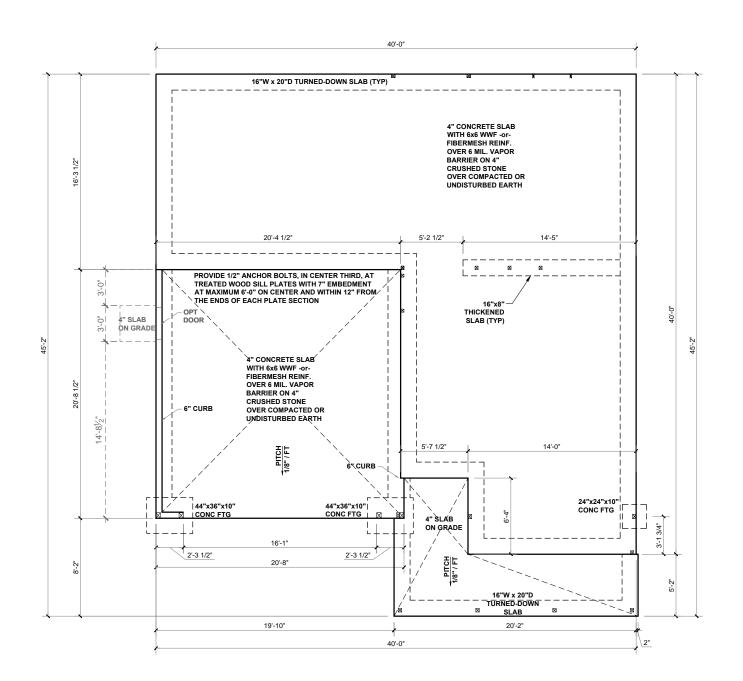
PROJECT NO.: 21901128 DATE: 05/27/2021

PLAN: **240.2539**

ROOF FRAMING PLAN

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S7.0C



SLAB FOUNDATION PLAN - 'D'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL ---- ROOF RAFTER / TRUSS SUPPORT

- · - · - · DOUBLE RAFTER / DOUBLE JOIST --- STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE **BEARING ON BEAM / GIRDER**

(1) #5 REBAR @ CENTER OF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.

CONCRETE SLAB REINFORCING SUBSTITUTION OF SYNTHETIC FIBER MIX IN LIEU OF WWF IN NON STRUCTURAL SLABS:

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON RAISED METAL DECKING
 NO SUBSTITUTION ALLOWED IN SLABS WITH GRADE
 BEAMS UNLESS A REBAR MAT IS INSTALLED
 NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN
 FOUND TO BE EXPANSIVE SOILS ON SITE
 NO SUBSTITUTION ALLOWED FOR SLAB POURS NO SUBSTITUTION ALLOWED FOR SLAB POURS DIRECTLY ON GRADE; A 4" BASE MATERIAL OF CRUSHED STONE OR WELL DRAINING CLEAN SAND IS REQUIRED FOR SUBSTITUTION NO SUBSTITUTION ALLOWED FOR ANY SITES WITH A DCP BLOW COUNT OF 10 OR LESS.
- FIBER MIX VOLUMES MUST BE FOLLOWED PER THE MANUFACTURES SPECIFICATIONS





кв номе NORTH CAROLINA DIVISION

- 4518 S. MIAMI BLVD.
- SUITE 180
 DURHAM, NC 27703
- TEL: (919) 768-7988 ■ FAX: (919) 472-0582 ■



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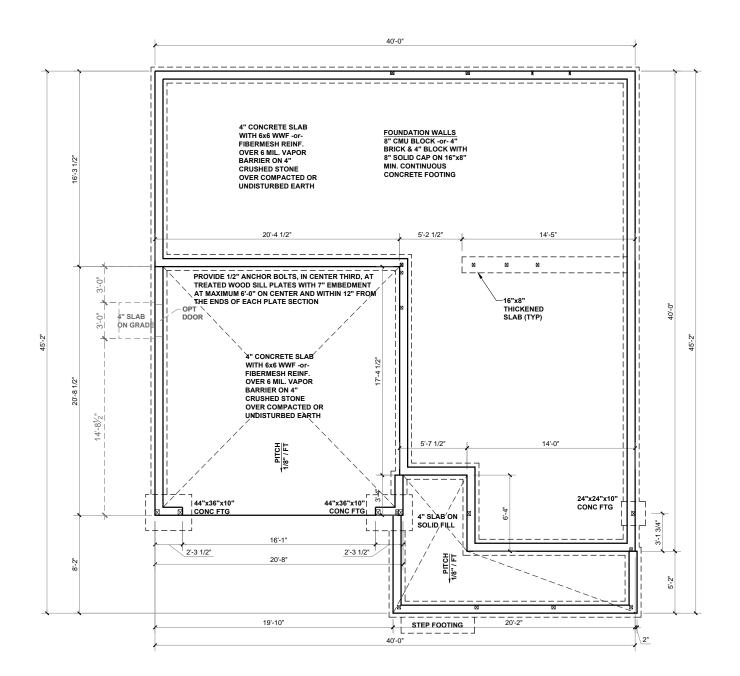
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PROJECT NO.: 21901128 05/27/2021

240.2539

.

SLAB FOUNDATION PLAN



STEM WALL FOUNDATION PLAN - 'D'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL

- · - · - · DOUBLE RAFTER / DOUBLE JOIST

--- STRUCTURAL BEAM / GIRDER WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE **BEARING ON BEAM / GIRDER**

(1) #5 REBAR @ CENTER OF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

ALL CONCRETE CURBS SUPPORTING PORTAL FRAMED OR ENGINEERED OPENINGS IN GARAGES WITH A PONY WALL OVER 24" ABOVE THE GARAGE DOOR HEADER SHALL BE REQUIRED TO BE AT LEAST 8" WIDE.

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- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON RAISED METAL DECKING NO SUBSTITUTION ALLOWED IN SLABS WITH GRADE BEAMS UNLESS A REBAR MAT IS INSTALLED
- NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN FOUND TO BE EXPANSIVE SOILS ON SITE NO SUBSTITUTION ALLOWED FOR SLAB POURS
- NO SUBSTITUTION ALLOWED FOR SLAB POURS DIRECTLY ON GRADE; A* BASE MATERIAL OF CRUSHED STONE OR WELL DRAINING CLEAN SAND IS REQUIRED FOR SUBSTITUTION NO SUBSTITUTION ALLOWED FOR ANY SITES WITH A DCP BLOW COUNT OF 10 OR LESS.
- FIBER MIX VOLUMES MUST BE FOLLOWED PER THE MANUFACTURES SPECIFICATIONS





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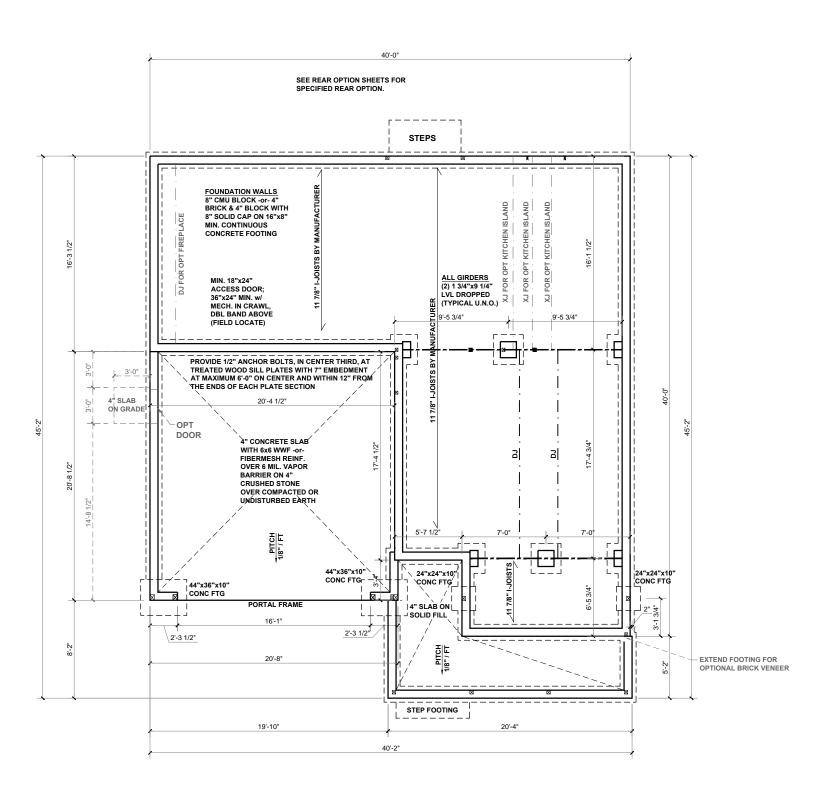
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PROJECT NO.: 21901128 05/27/2021

240.2539

STEM WALL FOUNDATION PLAN

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CRAWL SPACE FOUNDATION PLAN - 'D'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL

---- DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE

I-JORSTUNDACTION SORTICTERAEDOTES':OC IN LOCATIONS WITH TILE FINISH FLOOR

BEARING ON BEAM / GIRDER

SIZE HULLOW MASONRY SOLID MASONRY (1) #8 REBAR @ CENTER OF ALL PERIMETER AND IRTERNAL LOMO 1923 HIGHOUTHINGS TO SUCH WIRN 12216 UP TO 48" HIGH UP TO 9"U" HIGH

4x24 UP TO 96" HIGH

WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.

FLOOR FRAMING TO BE 11 7/8" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

8"x16" PIERS AT FOUNDATION WALL SUPPORTING DROPPED GIRDER TO HAVE A 30"x10"x8" FOOTING PROJECTION FROM THE MAIN WALL FOOTING.

> (1) #5 REBAR @ CENTER OF ALL PERIMETER FOOTINGS. (2" C.C. MIN)



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	Harnett COUNTY NORTH CARRELINA	
A	01/26/2022	<i>!!</i>

KB HOME NORTH CAROLINA DIVISION

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TEL: (919) 768-7988

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CAROLLA CAROLL

P-096

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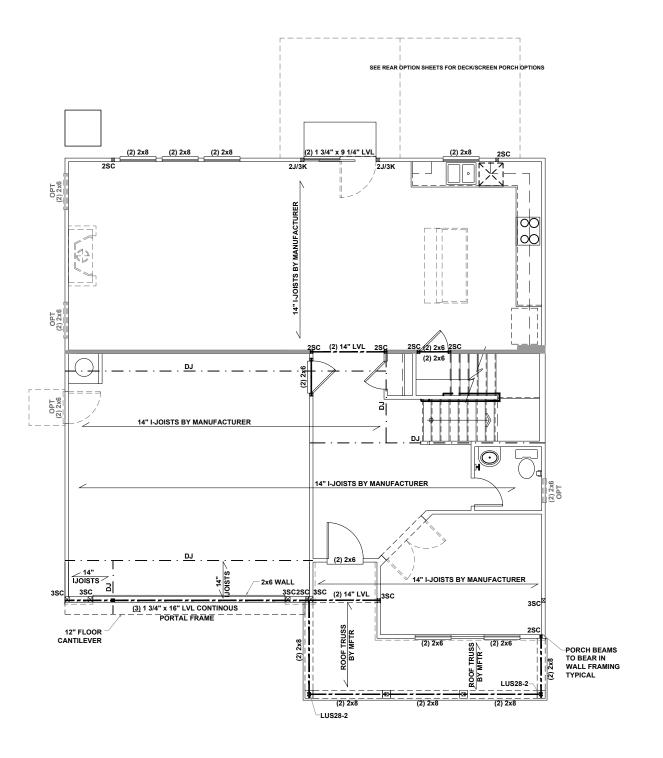
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CRAWL SPACE FOUNDATION PLAN

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S.30D



BEAM & POINT LOAD LEGEND

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

- ALL EDAMING TO DE 40 CDE MINIMUM
- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- 3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J /
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- . ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
- 7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
- ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- 9. FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
- 2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING



Harnett County Sections Mostre all Oraziones

KB HOME NORTH CAROLINA DIVISION

4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703

TEL: (919) 768-7988

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P-0961

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PLAN: **240.2539**

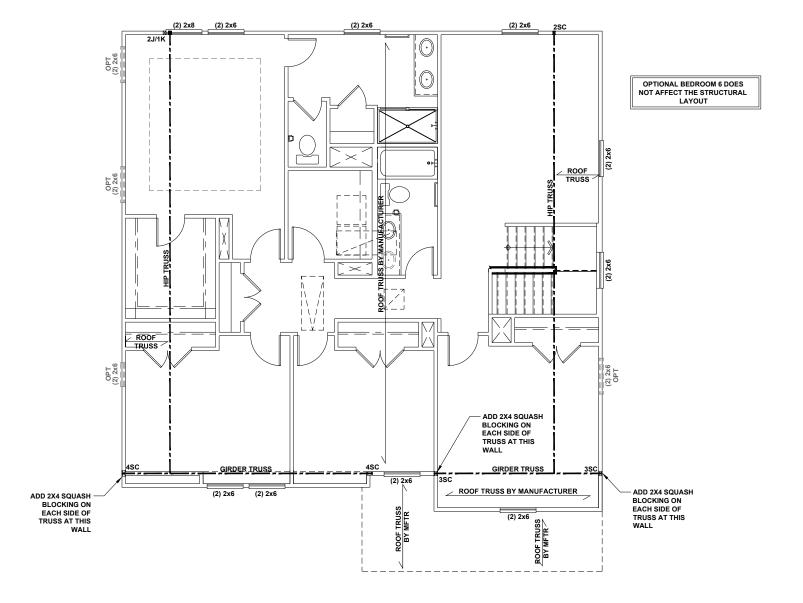
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FIRST FLOOR CEILING FRAMING PLAN

S1.0D

FIRST FLOOR CEILING FRAMING PLAN - 'D'

MASTER BATH OPTIONS DO NOT AFFECT THE STRUCTURAL LAYOUT



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
ROOF RAFTER / TRUSS SUPPORT
DOUBLE RAFTER / DOUBLE JOIST
STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

☑ POINT LOAD TRANSFER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

ALL ED AMINO TO DE #0 ODE MINUMUM

- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K. UNO.
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- 9. FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
- . PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
- 11. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTUREN'S SPECIFICATIONS).
- 2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

I-JOIST SPACING NOT TO EXCEED 19.2" OC IN LOCATIONS WITH TILE FINISH FLOOR

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.



Harnett GOUNTY MASTER BE 007869022

KB HOME NORTH CAROLINA DIVISION

- 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703
- TEL: (919) 768-7988

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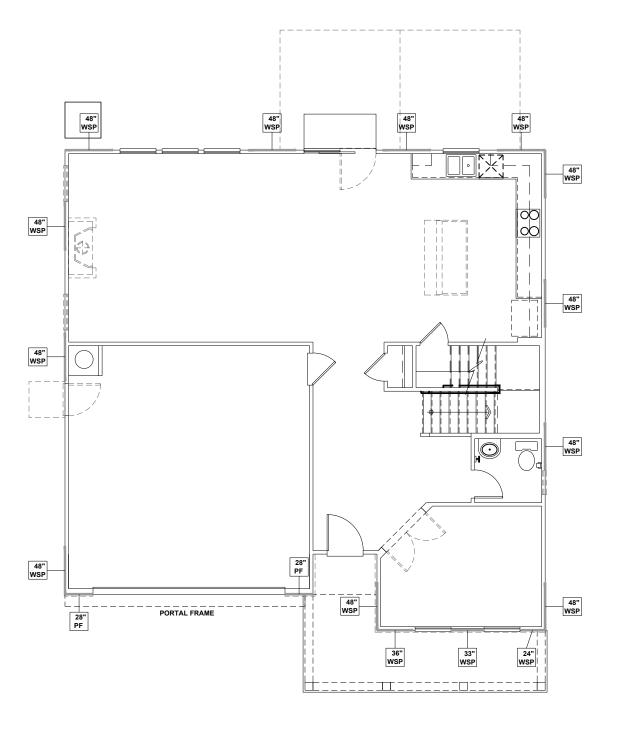
PLAN: **240.2539**

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SECOND FLOOR CEILING FRAMING PLAN

S2.0D

SECOND FLOOR CEILING FRAMING PLAN - 'D'



- MINIMUM PANEL WIDTH IS 24"
 FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S). SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:



CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 100 NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W SIMILAR LENGTH AND NAILING PATTERN.) USE HT14 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED

<u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE

AND 8" OC FIELD. FULLY BLOCKED AT ALL

PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS HAVE BEEN ENGINEERED BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	11.0 FT.	14.75 FT.
RIGHT	11.0 FT.	16.0 FT.
REAR	11.0 FT.	16.0 FT.
LEFT	11.0 FT.	16.0 FT.



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01/86/2022

KB HOME NORTH CAROLINA DIVISION

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FAX: (919) 472-0582

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P-0961

JDS Consulting, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS, THE STRUCTURAL COMPONENTS COMPLY WITH THE 2018 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURAL REQUIREMENTS OF THESE PLANS WITHOUT THE APPROVAL OF THE EOR IS PROHIBITED.

JDS Consulting

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PROJECT NO.: 21901128 DATE: 05/27/2021

PLAN:

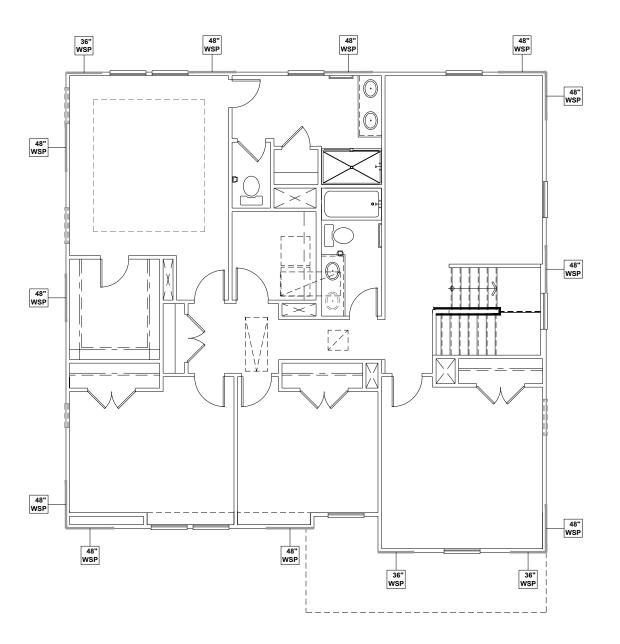
PLAN: **240.2539**

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FIRST FLOOR WALL BRACING PLAN

S4.0D

FIRST FLOOR WALL BRACING PLAN - 'D'



- MINIMUM PANEL WIDTH IS 24"
 FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
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CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 100 NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED

<u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE

AND 8" OC FIELD. FULLY BLOCKED AT ALL

PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING NOTE:

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WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	10.0 FT.	14.0 FT.
RIGHT	10.0 FT.	12.0 FT.
REAR	10.0 FT.	13.0 FT.
LEFT	10.0 FT.	12.0 FT.



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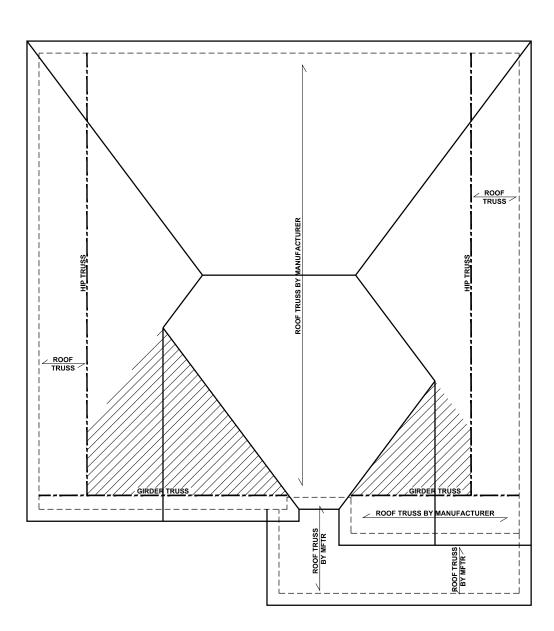
PROJECT NO.: 21901128
DATE: 05/27/2021
PLAN:
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SECOND FLOOR WALL BRACING PLAN

S5.0D

SECOND FLOOR WALL BRACING PLAN - 'D'



ROOF FRAMING PLAN - 'D'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
---- ROOF RAFTER / TRUSS SUPPORT
---- DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER
POINT LOAD TRANSFER

POINT LOAD FROM ABOVE

BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

 PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

2.

DENOTES OVER-FRAMED AREA

- 3. MINIMUM 7/16" OSB ROOF SHEATHING
- 4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- 6. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

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

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF PLAN

CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION

OVER 28'

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

OR (1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE



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PROJECT NO.: 21901128 DATE: 05/27/2021

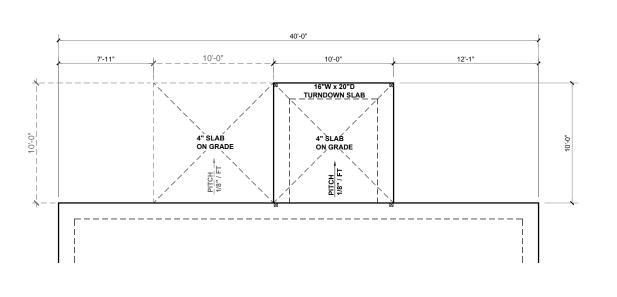
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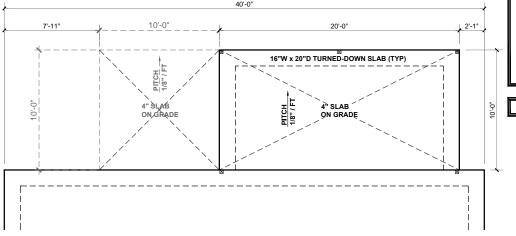
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ROOF FRAMING PLAN

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S7.0D





BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW JOOR HEADER

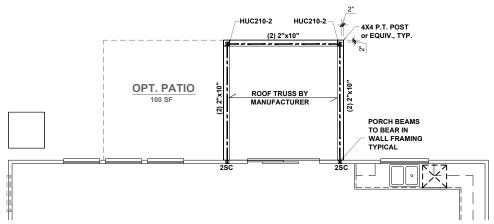
POINT LOAD TRANSFER

POINT LOAD FROM ABOVE
BEARING ON BEAM / GIRDER

SEE FULL PLAN FOR ADDITIONAL INFORMATION

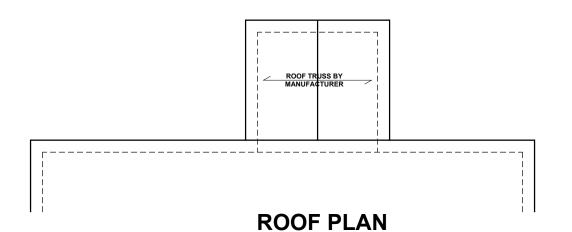
SLAB FDN - 10' COVERED PATIO

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



10' COVERED PATIO

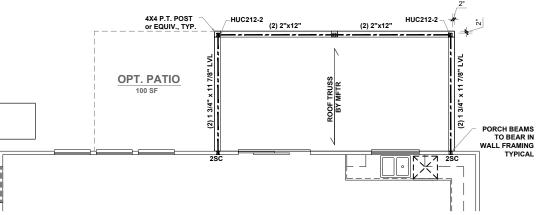
SCALE: 1/8" = 1'-0"



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

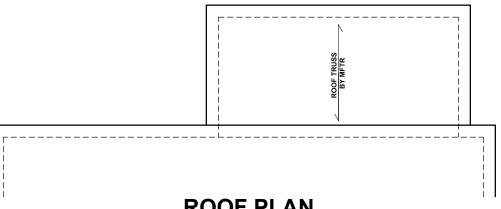
SLAB FDN - EXT. COVERED PATIO

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



EXT. COVERED PATIO

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



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

COVERED PATIC



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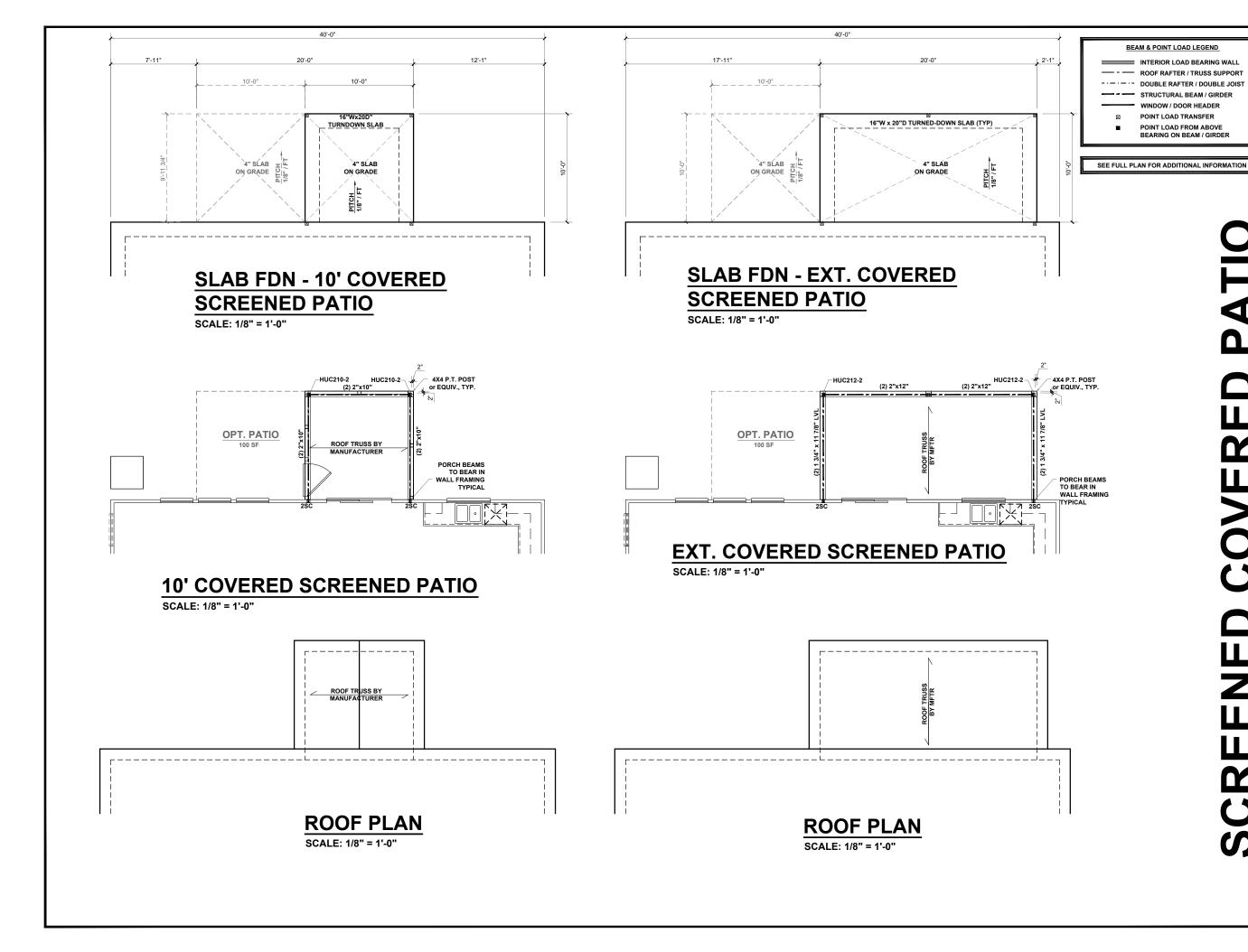
PROJECT NO.: 21901128 DATE: 05/27/2021

PLAN:

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REAR OPTIONS

RO1

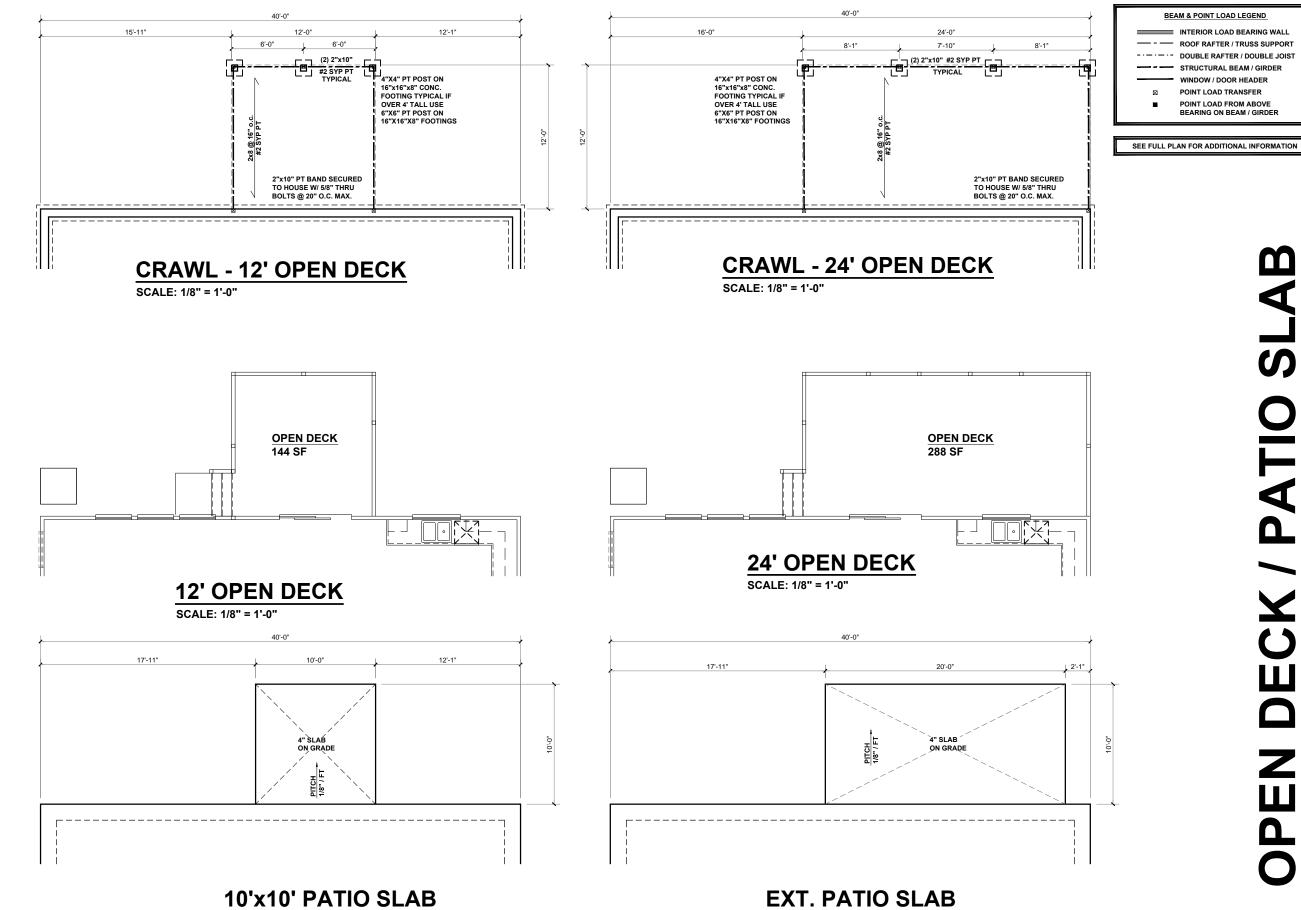


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REAR OPTIONS

RO2

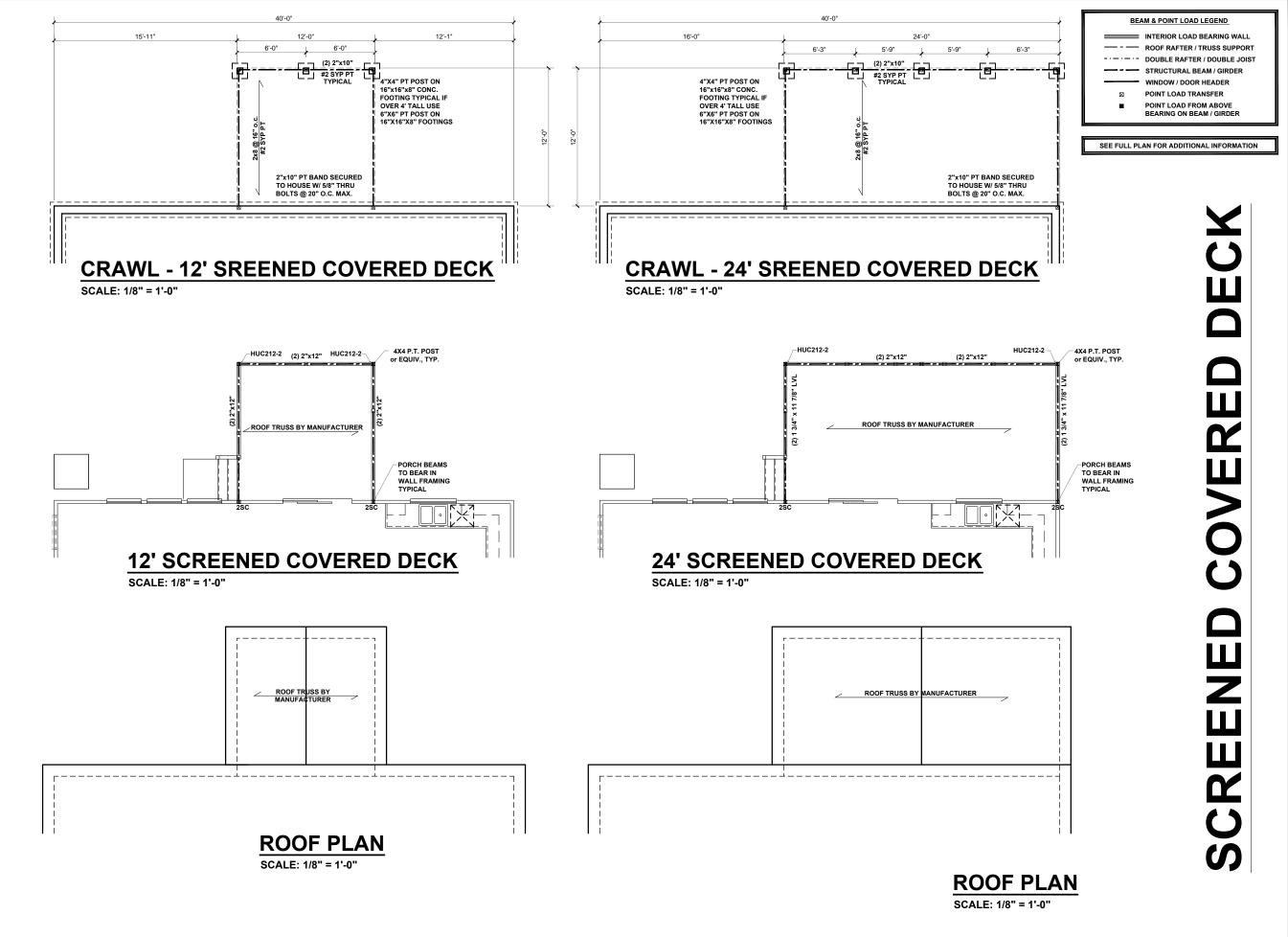


SCALE: 1/8" = 1'-0"

EXT. PATIO SLAB SCALE: 1/8" = 1'-0"

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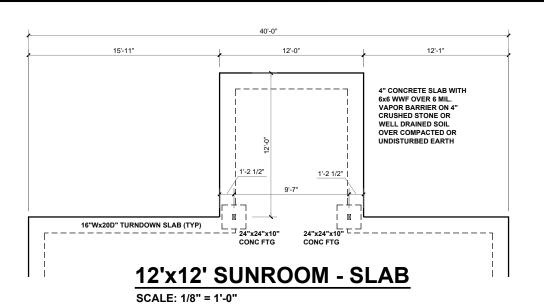
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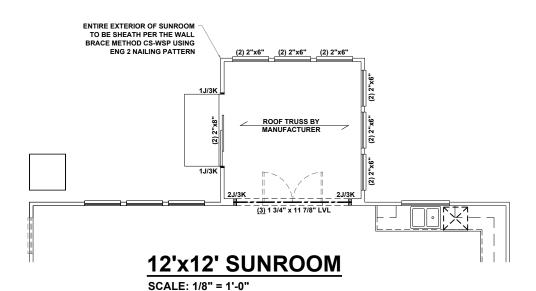
PLAN: **240.2539**

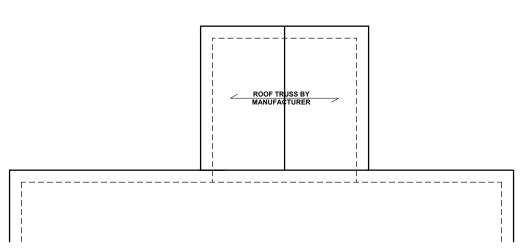
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REAR OPTIONS

RO4

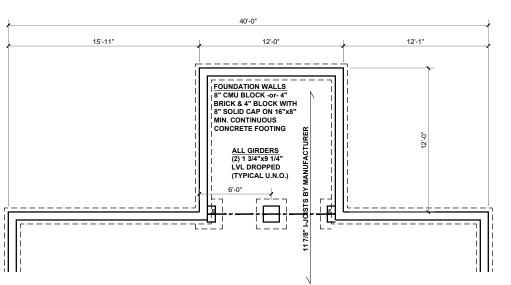






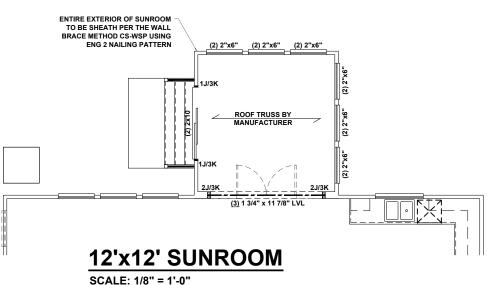
12'x12' SUNROOM - ROOF

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



12'x12' SUNROOM - CRAWL

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



ROOF TRUSS BY
MANUFACTURER

12'x12' SUNROOM - ROOF

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
ROOF RAFTER / TRUSS SUPPORT
OUBLE RAFTER / DOUBLE JOIST
STRUCTURAL BEAM / GIRDER
WINDOW / DOOR HEADER
POINT LOAD TRANSFER
POINT LOAD FROM ABOVE

SEE FULL PLAN FOR ADDITIONAL INFORMATION

BEARING ON BEAM / GIRDER

SUNROOM

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4518 S. MIAMI BLVD.
SUITE 180
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REAR OPTIONS

RO5