

AN,\$ ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS	
AN,4 ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS 5' EXTENDED COVERED PATIO	
AN,\$ ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS	
AN,4 ROOF W/ REAR, PARTIAL RIGHT ELEVATIONS 5' EXTENDED COVERED SCREENED PATIO	
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PARTIAL FLOOR, SLAB PLAN,4 ROOF W REAR, PARTIAL RIGHT ELEVATIONS AT FLOOR PLAN 'D' 10'x25' EXTENDED COVERED SCREENED DECK

CODE INFORMATION

CODE	ABBREVIATIONS
N.CR.	NORTH CAROLINA RESIDENTIAL CODE
N.CB.	NORTH CAROLINA BUILDING CODE
N.CM.	NORTH CAROLINA MECHANICAL CODE
N.CP.	NORTH CAROLINA PLUMBING CODE
N.CF.	NORTH CAROLINA FUEL GAS CODE
N.CE.	NORTH CAROLINA ELECTRICAL
N.C-E.C.	NORTH CAROLINA ENERGY CODE
N.E.C.	NATIONAL ELECTRICAL CODE
I.C.B.O.	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION
A.N.S.I.	AMERICAN NATIONAL STANDARDS
I.E.C.C.	INTERNATIONAL ENERGY CONSERVATION CODE
I.C.C.	INTERNATIONAL CODE COUNCIL
U.L.	UNDERWRITERS LABORATORIES, INC.

REVISION LIST

ISED	LOG NUMBER
, 2.4, 3A3, 3.A4, 3.B5, 3.B6, 3.B1, 3.C4, 3.C5, 3.D4, 3.D5,	
3.5, 8.6	NCIBO24NCP
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GENERAL REQUIREMENTS

- THE WORD 'CONTRACTOR' AS USED HEREIN SHALL MEAN THE GENERAL CONTRACTOR, SUBCONTRACTORS AND ALL PERSONS DIRECTLY OR PRECTLY EMPLOYED BY ANY OF THEM
- CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODE REQUIREMENTS:
 - ALL LAWS, STATUTES, THE MOST RECENT BUILDING CODES, ORDINANCES, RULES, REULATIONS, AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES HAVING JURISDICTION OVER CONTER CONTRACTOR, ANY SUBCONTRACTOR, THE PROJECT THE PROJECT SITE, THE WORK, OR THE PROSECUTION OF THE MORK.
- THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING TO SAFETY.
- c THE FAIR HOUSING AMENDMENTS ACT. THE AMERICANS WITH DISA-BILITIES ACT, AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING THERETO.
- CONTRACTOR SHALL CAREFULLY STUDY AND REVIEW THE CONSTRUCTION CONTRACIONS SHALL CAREFULLT SILUT AND REVIEM THE CONSTRUCTION DOCUMENTS AND INFORMATION FRANSHED BY OWNER, AND SHALL PROMPTLY REPORT IN WRITING TO OWNERS'S REPRESENTATIVE ANY ERRORS, INCONSISTENCIES, OR OWNERS'S REPRESENTATIVE ANY MENTS OR INCONSISTENCIES WITH APPLICABLE CODE REQUIREMENTS OBSERVED BY THE CONTRACTOR.
- IF CONTRACTOR PERFORMS WORK WHICH HE KNOMS OR SHOULD KNOW IS CONTRARY TO APPLICABLE CODE REQUIREMENTS, WITHOUT THE AGREEMENT OF OWNER, CONTRACTOR SHALL BE REPORSIBLE FOR SUCH WORK AND SHALL BEAR THE RESULTANT LOSSES, INCLUDING, WITHOUT LIMITATION, THE COSTS OF CORRECTING DEFECTIVE WORK.
- CONTRACTOR SHALL PROVIDE CERTIFICATES OF INSURANCE ACCEPTABLE TO OWNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL TAKE FIFLID MEASUREMENTS VERIEV FIFLID CONDITIONS, AND CAREFULLY COMPARE WITH THE CONSTRUCTION DOCUMENTS SUCH FIELD MEASUREMENTS, CONDITIONS, AND OTHER NFORMATION KNOWN TO CONTRACTOR BEFORE COMMENCING THE WORK ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED AT ANY TIME SHALL BE PROMPTLY REPORTED IN WRITING 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.
- SUB-CONTRACTORS SHALL INSURE THAT ALL WORK IS DONE IN A SUB-CONTRACTORS SHALL INSURE THAT ALL KOKK IS DONE IN A PROFESSIONAL WORKMAILIER MANNER BY SKILLED MECHANICS AND SHALL REPLACE ANY MATERIALS OR ITEMS DAMAGED BY SUB-CONTRACTOR'S PERFORMANCE. SUB-CONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND COOPERATE PULLY MITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO ALL TRUTH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE ACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE SWACT EXTERT AND OVERLAP OF EACH OTHER'S 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 IMMEDIATELY. EACH SUBCONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR OF HISHERS SUBCONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR OLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LEFT BY OTHER SUB-CONTRACTORS. BUILDER WILL DETERNINE HOW SOON AFTER SUBCONTRACTOR COMPLETES EACH PLASE OF HIS WORK THAT TRASH AND DEBRIS WILL BE REMOVED FROM THE SITE.
- APPROVAL BY THE BUILDING INSPECTOR DOES NOT MEAN APPROVAL OR ALLOWABLE FAILURE TO COMPLY WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERED TO THE ARCHITECT OR ENGINEER FOR INTERPRETATION 10. 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
- ALL TRADE NAMES AND BRAND NAMES CONTAINED HEREIN ESTABLISH GUALITY STANDARDS, SUBSTITUTIONS ARE PERMITTED, NITH FRIOR APPROVAL BY THE ONNER'S REPRESENTATIVE. THE CONTRACTOR SHALL SUBNIT FOR THE ARCHITECT'S AND BUILDER'S APPROVAL ALL MATERIALS OR EQUIPMENT WHICH IS CONSIDERED 'OR EQUIAL' TO THAT SPECIFIED. 12.
- 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 MILL CONTAIN NO "BID SET" DESIGNATIONS. CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ARE NOT TO BE CONSTRUED AS BUIGT HE COMPLETED OR FINAL DRAWINGS AND THEY SHOULD NOT IN ANY WAY BE USED AS SUCH.
- ALL STANDARD NOTES CONTAINED HEREIN ARE TYPICAL UNLESS 14.
- TYPICAL DETAILS AND SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE. 15.
- SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- SEE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAMINGS FOR PITS, TRENCHES, ROOF OPENINGS, DEPRESSIONS, ETC. NOT SHOWN ON THE OTHER DRAWINGS.
- THE CONSTRUCTION DOCUMENTS AND ALL COPIES THEREOF FURNISHED TO CONTRACTOR ARE THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE USED ON OTHER WORK.

SITE WORK

- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED EARLINGING OF LANDAL ILLE EARLY AND A DAILD STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., AND BURED ARTIFACTS SUCH AS INDIAN OR DINOSAUR BONES. IF ANY SUCH TURIS ARE FOUND THE ARCHITECT, CIVIL ENGINEER, AND SOILS ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY
- REFER TO THE SOILS REPORT AS PREPARED BY THE GEOTECHNICAL
- 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 WIDTH, LENGTH, AND DEPTH REQUIRED AND FINISHED WITH LEVEL BOTTOMS. 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.
- IO. FILL MATERIALS SHALL BE FREE FROM DEBRIS, VEGETABLE MATTER AND OTHER FOREIGN SUBSTANCES.
- ALL FINISH GRADES TO DRAIN AWAY FROM THE BUILDING FOOTINGS.
- 12. THERE SHALL BE NO ON-SITE WATER RETENTION.
- 13 THERE SHALL BE NO DRAINAGE TO ADJACENT PROPERTY
- FOR ONSITE CONTSRUCTION, PLANS TO COMPLY WITH NECESSARY INSPECTIONS APPROVED BY THE BUILDING OFFICIAL. 14
- 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. 15.

CONCRETE

- REFER TO STRUCTURAL ENGINEERING CALCULATIONS AND SOILS REPORT FOR THE PERFORMANCE REQUIREMENTS FOR CONCRET FOUNDATIONS
- CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE COMPRESSIVE STRENGTH AS PRESCRIBED IN THE N.C.-R. AS WELL AS SATISFY THE DURABILITY CRITERIA OF THE N.C.-R
- MIXING OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318, SECTION 5.8.
- 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 5.11.
- ALL FORM WORK SHALL BE DESIGNED, CONSTRUCTED, UTILIZED, AND
- CONDUIT, PIPES AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN THE LIMITATIONS OF ACI 316, 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
- TOP OF CONCRETE SLABS TO BE A MINIMUM 4" W/ MASONRY VENEER 6" ELSEWHERE (&" H.U.D.) ABOVE FINISH GRADE.
- FOUNDATION MIDTHS, 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 ALL REINFORCEMENT, CONDUCT, COLLET BOXES, ANCHORS, MANDERS, SLEEVES, BOLTS OR OTHER EMBEDDED MATERIALS 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 PRIOR TO PLACEMENT OF CONCRETE
- 13. POST-TENSION SLABS, IF APPLICABLE
- POINT AND LINE LOADS FROM STRUCTURE ABOVE TO BE PROVIDED TO POST-TENSION ENGINEER PRIOR TO POST-ENSION DESIGN
- 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 6.1 AND 6.2 OF ACI 530/ASCE 5/TMS 402. 2
- 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
- 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 FROPRITION SPECIFICATIONS OR THE PROPERTY SPECIFICATIONS OF ASTM C 270
- GROUT SHALL CONSIST OF CEMENTITIOUS MATERIAL AND AGGREGATE IN ACCORDANCE WITH ASTM C 476 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-404-07 (GROUT).
- 7. 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.
- 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

LUMBER

- REFER TO STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL, METAL AND REINFORCING STEEL SPECIFICATION
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO AISC/CRED
- ANCHOR RODS SHALL BE SET ACCURATELY TO THE PATTERN AND DIMENSIONS CALLED FOR ON THE PLANS. THE PROTRUSION OF THE THREADED ENDS THREADENT THE CHARGE THE THREADS OF THE NUTS, BUT SHALL BE SUFFICIENT TO FULLY ENGAGE THE THREADS OF THE NUTS, BUT SHALL BE NOT BE GREATER THAN THE LENGTH OF THE THREADS ON THE BOLTS з.
- FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILCON BROAZE OR COPPER VERIFY ACCEPTABLE FASTENERS PER CHEMICALS USED IN PRESERVE PRESERVITIVELY TREATED WOOD WV N.C.-R. FASTENINGS FOR WOOD FOUNDATIONS SHALL BE AS REQUIRED IN AF4PA TECHNICAL REPORT NO. T.

WOOD & FRAMING

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 R302.1.
- ALL LUMBER SHALL MEET THE STANDARDS OF QUALITY AS STATED IN THE N.C.-R
- LUMBER AND PLYMOOD 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 COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARD COMMITTEE TREATED WOOD PROGRAM
- 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.
- 2. GLUED LAMINATED TIMBERS SHALL BE MANUFACTURED AND IDENTIFIED AS REQUIRED IN AITC AIGO.I AND ASTM D 3737.

PROTECTION AGAINST DECAY & TERMITE

- IN AREAS SUBJECT TO DECAY DAMAGE AS ESTABLISHED BY THE N.C.-R IN ACCESSION TO DEATIONS SHALL REQUIRE THE USE OF NATURALLY DRABLE WOOD OR WOOD THAT IS PRESERVATIVE TREATED IN ACCORDANCE WITH AWPA UI FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE, PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA UI
- WOOD JOISTS OR THE BOTTOM OF WOOD FLOOR WHEN CLOSER THAN Ι. 16 Inches, or wood girders when closer than 12 Inches to the exposed groupd in cranl spaces or nexcavated areas located within the periphery of the building foundation.
- ALL EXTERIOR SILLS & PLATES THAT REST ON CONCRETE OR MASONRY 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
- THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 0.5 INCH ON TOPS, SIDES AND ENDS.
- 5 WOOD SIDING AND SHEATHING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6 INCHES FROM THE GROUND.
- WOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOPS THAT ARE EXPOSED TO THE MEATHER, SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOPS BY ANIMPERVICUS MOISTURE BARRIER.
- MOOD FURRING STRIPS OR OTHER MOOD FRAMING MEMBERS ATTACHED 2. DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY MALLS OR CONCRETE MALLS BELOW GRADE EXCEPT MERE AN APPROVED VAPOR RETARDER IS APPLIED BETKEEN THE WALL AND THE FURRING 3. STRIPS OR FRAMING MEMBERS.
- ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POSTS, GUARDRALE, PICKETS, STEPS AND FLOOR STRUCTURE. COVENINGS THAT WOULD PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE OR AT JOINTS BETWEEN PREMERS ARE ALLOWED.
- IN AREAS SUBJECT TO DAMAGE FROM TERMITES METHODS OF PROTECTION SHALL BE ONE OF THE METHODS LISTED IN THE N.C.-R 3
- UNDER-FLOOR AREAS SHALL BE VENTILATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R

WOOD & FRAMING

(continued) SHEATHING

FLOOR FRAMING

ROOF FRAMING

WALL FRAMING

REQUIREMENTS OF THE N.C.-R

2

- 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 WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. 2.
- 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.
- STRUCTURAL FLOOR SHEATHING SHALL COMPLY WITH THE PROVISIONS OF THE N.C.-R

WHERE APPLICABLE, REFER TO THE SHEAR WALL SCHEDULE FOR REQUIRED STRENGTH, GRADE, AND THICKNESS OF PLYNOOD SHEAR PANELS AND FOR REQUIRED SHEAR WALL NAILING SCHEDULE.

IN ONE- AND TWO-FAMILY DWELLING CONSTRUCTION USING VINYL OR ALUMINUM AS A SOFFI'T MATERIAL, THE SOFFI'T MATERIAL SHALL BE SECURELY ATTACHED TO FRAMING MEMBERS AND USE AN UNDERLAYMENT MATERIAL OF EITHER FIRE RETARDANT TREATED WOOD, 23/32 INCH NOOD SHEATHING OR 5/8 INCH SYPSUM BOARD, VENTING REQUIREMENTS APPLY TO BOTH SOFFI'T AND UNDERLAYMENT AND SHALL BE FER SECTION REGG OF THE NORTH CAROLINA RESIDENTIAL CODE. WHERE THE PROPERTY LINE IS IO FEET OR MORE FROM THE BUILDING FACE, THE PROVISIONS OF THIS CODE SECTION DO NOT APPLY.

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 SHALL BE BY PRE-MANUFACTURED ROOF TRUSSES SPACED AT 24 INCHES ON CENTER UNLESS NOTED OTHERNISE.

THE MANUFACTURER SHALL SUPPLY TO THE ARCHITECT AND BUILDER CALCULATIONS AND SHOP DRAVINGS FOR APPROVAL OF DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARING), VOLUME CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION.

TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A REGISTERED DESIGN RADESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOAD (E.S. HVAC EQUIPMENT, WATER HEATER) THAT EXCEEDS THE DESIGN LOAD FOR THE TRUSSES SHALL NOT B PERMITED WITHOUT WRITTEN VERIFICATION 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 APPROVA

OF CALCULATIONS AND SHOP DRAWINGS PRIOR TO FABRICATION

THE SIZE, HEIGHT, AND SPACING OF STUDS SHALL BE IN ACCORDANCE

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.

MOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSETIO WITH 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 WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS. SEE EXCEPTIONS.

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 MEMBERS SHALL BEAR WITHIN 5 INCHES OF THE STUDS BENEATH. SEE EXCEPTIONS.

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 WALL LINE, 2-INCH-BY-4-INCH FLAT STUDS SPACED I6 INCHES ON CENTER. INTERIOR NONBEARING WALLS SHALL BE

CAPPED WITH AT I EAST A SINGLE TOP PLATE INTERIOR NONBEARING WALLS

STUDS SHALL HAVE FULL BEARING ON NOMINAL 2 BY OR LA PLATE OR SILL HAVING A WIDTH AT LEAST EQUAL TO THE M OF THE STUDS.

SHALL BE FIREBLOCKED IN ACCORDANCE WITH THE N.C.-

THE BRACING OF WOOD TRUSSES SHALL COMPLY TO THEIR APPROPRIATE ENGINEERED DESIGN, PER THE N.C.-R

WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE

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 MINIMM OF 11/2 INCH THICKNESS.

REFER TO THE STRUCTURAL ENGINEER'S CURRENT SPECIFICATIONS, CALCULATIONS, AND PLANS FOR REQUIRED STRENGTH, GRADE, AND THICKNESS FOR PLYWOOD FLOOR SHEATHING PANELS AND FOR DIAPHRAGM NAILING AND ADHESIVE REQUIREMENTS

WOOD & FRAMING

(continued)

DRILLING AND NOTHCING OF STUDS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

- NOTHCING, ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE GUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENTOR IN THE STUDIES AND BE ANNO ERATITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED AO PERCENT OF A SINGLE STUD WIDTH. NOTCHING OF BEARING STUDS SHALL BE ON ONE EDGE ONLY AND NOT TO EXCEED ONL-POURTH 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 DRIILED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IG NO MORE THAN 60 PERCENT OF THE STUD NIDTH, THE EDGE OF THE HOLE IG NO MORE THAN 5/8' INCH TO THE EDGE OF THE STUD, AND THE HOLE SHALL NOT BE CLOSER THAN 6 INCHES FROM AN ADJUACENT HOLE OR NOTCH, HOLES NOT EXCEEDING 3/4 INCH DIAMETER CAN BE AS CLOSE AS I 1/2 INCHES ON CENTER SPACING, STUDS LOCATED IN EXTERIOR WALLS 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 DEARING PARENTITIONS, PROVIDED THAT ONE OF THE FOLLOWING CONDITIONS ARE MET: (a) THE WALL SECTION IS REINFORCED WITH 1/2-INCH EXTERIOR GRADE FLYNOOD OR GOULVALENT REINFORCEMENT ON THE NOTCHED SIDE OF THE WALL, PLYNOOD, IF USED, SHALL REACH FROM THE FLOOR TO CELLING AND A LEAST ONE STUD FURTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT. (b) THE EXTERIOR WALLS OF A KITCHEN MY BE REINFORCED BY PLACING J2-INCH PLYNOOD OR EQUIVALENT REINFORCED BY PLACING J2-INCH PLYNOOD OR EQUIVALENT REINFORCED FROM THE FLOOR TO COUNTER-TOP HEIGHT AND AT LEAST ONE STUD FURTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.
- WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTIALY IN AN EXTERIOR MER'N TIFING OR DOCIDENTS IS FLACED IN OR FARINALT IN AN EALENDA OR INTERIOR LOAD-BEARING WALL, NECESSITATION CUTTING, DRILLING OR NOTCHING OF THE TOP FLATE B MORE THAN SO PERCENT OF ITS WIDTH A GALVANIZED METAL ITE OF NOT LESS THAN O.054 INCH THICK AND I 1/2' NCHES WIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT IOD NAILS HAVING A MINIMUM LENGTH OF I (INCHES (38 MIN) AT EACH SIDE OR EQUIVALENT, THE METAL TIE MUST EXTEND A MINIMUM OF 6 INCHES PAST THE OPENING.
- HEADERS SHALL MEET THE REQUIREMENTS OF THE N.C.-R
- PROVIDE LATERAL BRACING PER THE N.C.-R
- FOUNDATION CRIPPLE WALLS SHALL MEET THE REQUIREMENTS OF THE
- 14. WOOD STUD WALLS SHALL BE BRACED AS REQUIRED BY THE N.C.-R
- 15. UNLESS COVERED BY INTERIOR OR EXTERIOR WALL COVERINGS OR SHEATHING MEETING THE MINIMUM REQUIREMENTS OF THIS CODE, ALL STUD PARTITIONS OR WALLS WITH STUDS HAVING A HEIGHT-TO-LEAST THICKNESS RATIO EXCEEDING 50 SHALL HAVE BRIDGING NOT LESS THAN 2 INCHES IN THICKNESS AND OF THE SAME WIDTH AS THE STUDS FITTED SNUGLY AND NAILED THERETO TO PROVIDE ADEQUATE LATERAL SUPPORT.

FIRE BLOCKS AND DRAFT STOPS

2.

CTIONS

FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE BARRIER BETMEEN STORES, AND BETMEEN A TOP STORY AND A ROOF SPACE, FIREBLOCKING SHALL BE FROVIDED IN WOOD-FRAME CONSTRUCTION IN THE LOCATIONS SPECIFIED IN THE N.C.-R

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 23/32-INCH WOOD STRUCTURAL PANELS MITH JOINTS BACKED BY 23/32-INCH MOOD 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 III I 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.

BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE IC FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL RONG OF STUDS OR STAGGERED STUDS, LOOSE FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASSES.

WHEN THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED WHEN THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR/CELING ASSEMBLY, DRAFTSOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1,000 SOUARE FEET, DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS, WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CELING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CELING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES:

- CEILING IS SUSPENDED UNDER THE FLOOR FRAMING
- FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS.

HANDRAI

GUARDRAIL OF 36" HIGH MIN. SHALL BE PROVIDED WHERE FINISHED GRADE OR FLOOR BELOW RAISED AREA EXCEEDS 30".

HANDRAIL AT STAIRS SHALL BE PROVIDED WHEN 4 OR MORE STAIR RISERS

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THERMAL & MOISTURE

PROTECTION

- PROVIDE ALL FLASHING , COUNTER-FLASHING, BITUTHENE, MEMBRANE FING, SHEET METAL, CAULKING, SEALANTS, ELASTOMERIC WALKING SURFACES, AND RAIN GUTTERS AND/OR DIVERTERS WHERE MAKE WORK COMPLETELY WATERPROO
- "CORROSION RESISTANCE" SHALL MEAN THE ABILITY OF A MATERIAL TO WITHSTAND DETERIORATION OF IT'S SURFACE OR IT'S PROPERTIES 2. WHEN EXPOSED TO IT'S ENVIRONMENT
- BALCONIES, LANDINGS, EXTERIOR STAIRWAYS, OCCUPIED ROOFS AND SIMILAR SURFACES EXPOSED TO THE NEATHER AND SEALED UNDER-NEATH SHALL BE WATERPROOFED AND SLOPED A MINIMUM OF 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE) FOR DRAINAGE.
- PROVIDE & 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 PER MANUFACTURER'S SPECIFICATIONS AT DECKS AND BALCONIES COLOR, FINISH, 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 WALLS SHALL BE PROPERLY COPED WITH NONCOMBUSTIBLE, WEATHERPROOF MATERIALS OF A NIDTH NO LESS THAN THE THICKNESS OF THE PARAPET WALL. PARAPET COPING SHALL EXTEND 2" MINIMUM DOWN THE FACES OF THE PARAPET.

FLASHING

- APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE-FASHION IN A MANNER TO FREVENT ENTRY OF WATER INTO THE WALL 12. CAVITY OF PENETRATION OF MATER TO THE UNLIDING STRUCTURAL FRAMING COMPONENTS. SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA TII. FUID-APPLIED MEMBRANES USED AS FLASHING SHALL EXTERIOR MALLS SHALL COMPLY WITH AAMA TIA. THE FLASHING SHALL EXTERIOR THE SUFACE OF THE EXTERIOR WALL FINISH, ALUMINM FLASHING SHALL CONTELY FLASHING. SHOULD CONTACT NITH CEMENTITIONS MATERIAL, EXCEPT AT COUNTER FLASHING. SHOULD CONTACT NITH CEMENTITIONS MATERIAL, EXCEPT AT COUNTER FLASHING. SHOULD CONTACT NITH CEMENTITIONS MATERIAL, EXCEPT AT COUNTER FLASHING. SHOULD CONTACT NITH CEMENTITIONS MATERIAL, EXCEPT AT COUNTER FLASHING. SHOULD FOR CONTACT NITH CEMENTITIONS MATERIAL EXCEPT AT COUNTER FLASHING. SHOULD FTHE LOCATIONS STATED IN N.C.-R.
- AT ALL WINDOW AND DOOR OPENINGS USE FORTIFIBER WATER-RESISTIVE BARRIERS, I.C.C. ESR-1027, INSTALLED PER MANUFACTURERS SPECIFICATIONS, OR APPROVED EQUAL.
- ALL BEAMS, OUTLOOKERS, CORBELS, ETC. PROJECTED THROUGH EXTERIOR WALLS OR PENETRATING EXTERIOR FINISHES SHALL BE FLASHED WITH A MINIMUM O.OIR-INCH (NO. 26 SHEET METAL GAGE) CORROSION-RESISTANT METAL AND CAULKED.
- ALL SHEET METAL WORK SHALL BE PERFORMED IN ACCORDANCE ALL SHEEL IFELTA, NORK SHALL BE PERFORMED IN ACCONDANCE WITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMAC.N.A.), THE ARCHITECTURAL SHEET NETAL MANUAL, MD SEALANT, MATERROOFING AND RESTORATION INSTITUTE'S (SMR.I.) GUIDE -"SEALANTS'I THE PROFESSIONAL'S GUIDE".
- SHEET METAL SHALL BE STEEL SHEET, HOT-DIPPED, TIGHT COATED AND GALVANIZED, CONFORMING TO AS,T.M. ASOS AND SHALL BE A NUMBER 24 SHEET METAL GAGE UNLESS OTHERWISE 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 WITH TYPE AND FLUX RECOMMENDED BY MANUFACTURER. SEAL ALUMINUM 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, WEATHER 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 MANUFACTURERS'I INSTALLATION INSTRUCTIONS, BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL OF MINIMUM NOMINAL O OIR-INCH THICKNESS OR MINERAL SURFACE ROLL ROOFING MEIGHING A MINIMUM OF TT POUNDS FER IOD SQUARE FIET: CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMUM NOMINAL O.019-INCH THICKNESS 10.
- 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
- 12. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY A CRUCKET OK SADDLE SHALL BE INSTALLED OK INE RIDGE SIDE OF AN CHINNEY OK 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 FLASHING AT THE INTERSECTION OF CRICKET OR SADDLE AND
- FLASHING AGAINST A VERTICAL SIDEWALL SHALL BE BY THE STEP-FLASHING METHOD PER NC-R. 13.
- ASHING AGAINST A VERTICAL FRONT WALL, AS WELL AS SOIL STACH NT PIPE AND CHIMNEY FLASHING, SHALL BE APPLIED ACCORDING TO PHALT SHINGLE MANUFACTURER'S PRINTED INSTRUCTIONS.
- AT THE JINCTURE OF ROOF VERTICAL SURFACES, FLASHING AND COUNTERFLASHING SHALL BE PROVIDED IN ACCORDANCE WITH THE N.C.-R AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND, WHERE OF METAL, SHALL NOT BE LESS THAN O.OI9 INCH (NO. 26 GALVANIZED T GAGE) CORROSION-RESISTANT METAL
- 16. VALLEY FLASHING FOR CONCRETE TILE ROOPS SHALL BE AS REQUIRED

ROOFING MATERIALS

- ROOF COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH THE N.C.-R AND THE MANUFACTURERS 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 OULSTIONABLE SUITABILITY, TESTING BY AN APPROVED TESTING AGENCY SHALL BE REQUIRED BY THE BUILDING OF APPLICATION OF 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 LABELS WHEN REQUIRED. BULK SHIPMENTS OF MATERIALS SHALL BE ING AGENCY 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 REQUIREMENTS OF THE N.C.-R
- UNDERLAYMENT FOR ASPHALT SHINGLES SHALL CONFORM TO ASTM D 226 TYPE I, ASTM D 4869, TYPE I, OR ASTM D 6757. SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET SHALL COMPLY WITH ASTM D 1970
- 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 3/8 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. WHERE THE ROOF SHEATHING IS LESS THAN 3/4 INCH THICK, THE FASTENERS SHALL PENETRATE THROUGH THE SHEATHING. FASTENERS SHALL COMPLY WITH ASTM F INFOLIATE 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 WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER
- 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.
- CONCRETE AND CLAY TILE SHALL BE INSTALLED ONLY OVER SOLID SHEATHING OR SPACED STRUCTURAL SHEATHING BOARDS.
- CLAY AND CONCRETE ROOF TILE SHALL BE INSTALLED ON ROOF SLOPES OF 2 1/2 UNITS VERTICAL IN 12 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 (4:12), DOUBLE UNDERLAYMENT APPLICATION IS REGUIRED 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 I MINERAL SURFACED ROLL ROOFING.
- CONCRETE ROOF TILE SHALL COMPLY WITH ASTM C 1492.
- NAILS SHALL BE CORROSION-RESISTANT AND NOT LESS THAN II GAGE 16. MALE SHALL BE CONNOCIDENTED THAT IND NOT LESS INTA'LI GADE, SIGE-INCH HEAD, AND OF SUFFICIENT LENGTH TO PENETRATE 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 DE SMALLER THAN O.OBS-INCH. PERIMETER FASTENING AREAS INCLUDE THREE TILE COURSES BUT NOT LESS THAN 36 INCHES FROM EITHER SIDE OF HIPS OR RIDGES AND EDGES OF EAVES AND GABLE RAKES.
- 17. 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 CLINATIC CONDITIONS, ROOT SLOPE, UNDERLAYMEN SYSTEM, AND TYPE OF TILE BEING INSTALLED PER THE N.C.-R 18.
- THE INSTALLTION OF BUILT-UP ROOFS SHALL COMPLY WITH THE N.C.-R
- 20. BUILT-UP ROOPS SHALL HAVE A DESIGN SLOPE OF A MINIMUM OF ONE-FOUTH UNIT VERTICAL. IN 2 UNITS HORIZONTAL. (2-PERCENT SLOPE) FOR DRAINAGE, EXCEPT FOR COAL-TAR BUILT-UP ROOPS THAT SHALL HAVE A DESIGN SLOPE OF A MINIMUM ONE-EIGHTH UNIT VERTICAL. IN 12 UNITS HORIZONTAL (I-PERCENT SLOPE
- 21. BUILT-UP ROOF COVERING MATERIALS SHALL COMPLY WITH THE STANDARDS PER THE N.C.-R

EXTERIOR WALL COVERINGS

- 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 MEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING. THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A MATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENERE AS REQUIRED AND A MEANS OF DRAINING WATER THAT ENTERS THE ASSEMBLY TO THE EXTERIOR PROTECTION ASSEMBLY OUTPED ATTOM IN THE EXTERIOR VENERE EXTERIOR. PROTECTION AGAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED.
- ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS. ONE LAYER OF NO. IS ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTM D 226 FOR TYPE I FELT OR OTHER APPROVED MATER-RESISTIVE BARRIER SHALL BE APPLED OVER STUDS OR SHEATHING OF ALL EXTERIOR MALLS SUCH FELT OR MATERIAL SHALL BE APPLED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 6 INCHES, WHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES, THE FELT OR OTHER APPROVED MATERIAL SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BULDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE.
- VINYL SIDING CONFORMING TO THE REQUIREMENTS OF THE N.C.-R AND COMPLYING WITH ASTM D 3649 SHALL BE PERMITTED ON EXTERIOR WALLS OF BUILDINGS OF TYPE V CONSTRUCTION LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED SPECIFIED DOES NOT EXCEED IGO MILES PER HOUR AND THE BUILDING HEIGHT IS LESS THAN 40 FEET IN EXPOSURE C. WHERE CONSTRUCTION IS LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED EXCEEDS 130 MILES PER HOUR OR BUILDING HEIGHTS ARE IN EXCESS OF 40 T. DATA INDIGATING COMPLIANCE MUST BE SUBMITTED. VINYL SIE THE EXTERIOR WALLS OF THE BUILDING.
- VINYL SIDING SHALL BE APPLIED OVER SHEATHING OR MATERIALS LISTED IN THE N.C. R. VINYL SIDING SHALL BE APPLIED TO CONFORM WITH THE WEATHER-RESISTIVE BARRIER REQUIREMENTS VINYL SIDING AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED MANUFACTURER'S INSTRUCTIONS.
- VINYL SIDING FASTENERS AND ACCESSORIES SHALL MEET THE REQUIREMENTS OF THE N.C.-B
- EXTERIOR WALLS OF MOOD 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 A135.6 AND, WHERE USED STRUCTURALLY, SHALL BE SO IDENTIFIED THE LABEL OF AN APPROVED AGENCY
- MOOD 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 03TS-INCH EXTERIOR-TYPE WOOD STRUCTURAL PANELS OR PARTICLE-BOARD AND SHALL CONFORM TO THE REQUIREMENTS OF THE N.C.-R 10.
- FIBER-CEMENT LAP SIDING HAVING A MAXIMUM MIDTH OF 12 INCHES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM CIBO, TYPE A, MINIMUM GRADE II LAP SIDING SHALL BE LAPPED A MINIMUM OF 11/4 INCHES (32 MM) AND LAP SIDING NOT HAVING TONGUE-AND-GROOVE END JOINTS SHALL HAVE THE ENDS SEALED WITH CAULKING, INSTALLED WITH AN H-SECTION JOINT COVER, LEADS BEALED WITH OMELAING INSTALLED WITH AN IPSECTION SUM ICOVE LOCATED OVER A STRIP OF FLASHING OR SHALL BE DESIGNED TO COMP WITH INC-R. LAP SIDING COURSES MAY BE INSTALLED WITH THE FASTENER HEADS EXPOSED OR CONCEALED, ACCORDING TO NC-R OR APPROVED MANUFACTURERS INSTALLATION INSTRUCTIONS.

INSULATION

- INSULATING MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR INSULATING MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR RETARDERS OR VAPER-PERMEABLE MEMBRANES,INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALL-ASSEMBLIES, CRANL SPACES AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E & 4 OR UL 723.
- DUCT INSULATION MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS OF THE N.C.-R
- INSULATION AND COVERING ON PIPE AND TUBING SHALL HAVE A FLANE-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 AVE A CRITICAL RADIANT FULX OF NOT LESS THAN Q12 WATT PER SQUARE I 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 PER PROVIDED SUCH INSULATION IS COVERED WITH AN APPROVED ROOF COVERING AND PASSES FM 4450 OR UL 1256 PER N.C.-R.
- CELULOSE LOOSE-FILL INSULATION SHALL COMPLY WITH CPSC 16 CFR, PARTS 1209 AND 1404. EACH PACKAGE OF SUCH INSULATING MATERIAL SHALL BE CLEARLY LABELED IN ACCORDANCE WITH CPSC 16 CFR, PARTS 1209 AND 1404.
- INSULATION IN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, MALLS, CRANL SPACES OR ATTICS SHALL BE EITHER OF THE BLOWN-IN CEILUILOSE TYPE OR FIBERGLASS BATTS OR BLANKET TYPE PER BUILDER'S SPECIFICATIONS.
- THE ENERGY EFFICIENCY REQUIREMENTS INCLUDING LE.C.C. BUT NOT The Energy infollation "Revulation inclusions inclusions in the transmission of transmission of the transmission of trans 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 CALLED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED, WITH AN AIR BARRIER MATERIAL OR SOLID MATERIAL CONSISTENT HAPPENDIX E-23 AND E-24 OF THE NC-I I. BLOCKING AND SEALING FLOOR/CEILING SYSTEMS AND UNDER KNEE WALLS OPEN TO UNCONDITIONED OR EXTERIOR SPACE. 2. CAPPING AND SEALING SHAFTS OR CHASES, INCLUDING FLUE

3. 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 WITH THE BUILDING ENVELOPE AIR BARRIER, INSULATION SHALL BE SUBSTANTIALLY FREE FROM INSTALLATION GARS, YODS, OR COMPRESSION, FOR FRAMED WALLS, THE CAVITY INSULATION SHALL BE ENCLOSED ON ALL SIDES WITH A RIGID MATERIAL OR AIR BARRIER MATERIAL. MALL INSULATION SHALLS E ENCLOSED AT THE FOLLOWING LOCATIONS WHEN INSTALLED ON EXTERIOR WALLS PRIOR TO BEING COVERED BY SUBSEQUENT CONSTRUCTION, CONSISTENT WITH APPENDIX E-23 AND E-2.4 OF NC-R: 10.

SHOWERS

S STAIRS 4. FIREPLACE UNITS EVALOSERE 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 ELOOR PLANS AND ELEVATIONS FOR SIZES AND TYPES OF DOORS AND WINDOWS 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 2 OFENINGS FRUM A REVAILS SHALL NOT BE PERMITTED OTHER OFENINGS BETWEEN THE GARAGE AND REVEALS HALL EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 13/6 INCHES IN THICKNESS, SOLID OR HONEYCOMS CORE STEEL DOORS NOT LESS THAN 13/8 INCHES THICK, OR 20-MINUTE FIRE-RATED DOORS.
- NO DOUBLE FRENCH DOORS SHALL BE USED UNLESS THERE IS A SUFFICIENT OVERHANG OR COVERED PATIO COVERING THESE DOORS. NO DOUBLE <u>MOOD</u> FRENCH DOORS SHALL BE USED IN
- PROVIDE SECURITY HARDWARE FOR ALL DOORS AND WINDOWS IN CONFORMANCE 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 SAFETY PRE-CAUTION TO PREVENT THE DOOR FROM CLOSING WHEN SOMETHING IS ELICACING THE PATH OF THE DOOR SEE MANUFACTURERS NSTALLTION INSTRUCTIONS.
- ALL MANUFACTURED WINDONG AND SLIDING GLASS DOORS SHALL MEET THE AIR INFILTRATION STANDARDS OF THE CURRENT AMERICAN NATIONAL STANDARDS INSTITUTE AST.M. E228-73 WITH A PRESSURE DIFFERENTIAL OF 1.51 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 THE FLOOR.
- EMERGENCY ESCAPE AND RESCUE OPENINGS WITH A FINISHED SILL HEIGHT BELOW THE ADJACENT GROUND ELEVATION SHALL BE PROVIDED WITH A WINDOW WELL.

DOORS & WINDOWS (continued)

- IO. ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FEET IN THE CASE OF A GROUND FLOOR LEVEL WINDOW AND NOT LESS THAN 5.7 SQUARE FEET IN THE CASE OF AN UPPER STORY WINDOW.
- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING HEIGHT OF 24 INCHES.
- LL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM ET CLEAR OPENING WIDTH OF 20 INCHES.
- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNONLEDGE.
- THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE THE FININGUM ACKLOATAL AREA OF THE VINIDOM AREL SMALL BE & SOUARE FEET, WITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES, THE AREA OF THE MINDOW KELL SHALL ALLOW EMERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENDE PRET THE N.C.R. THE LADDER OR STEPS REQUIRED SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6" INTO THE REQUIRED DIMENSIONS OF THE WINDOW WELL.
- WINDOW WELLS WITH A VERTICAL DEPTH GREATER THAN 44 INCHES 15 SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER OF STEPS USABLE WITH THE WINDOW IN THE FULLY OPEN POSITION.
- BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BE PLACED OVER EMERGENCY ESCAPE AND RESCUE OPENINGS, BLIKHEAD ENCLOSURES, OR WINDOW WELLS THAT SERVE SUCH OPENINGS, PROVIDED THE MINIMM NET CLEAR OPENING SIZE COMPLIES WITH THE N.C.-R AND SUCH DEVICES SHALL BE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR FORCE GREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION OF THE SEC ARE AND RESCUE OPENING. 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 EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR

GLAZING & SAFETY GLAZING

BEING DESTROYED

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HABITABLE ROOMS SHALL HAVE AN ASSREGATE GLAZING AREA OF NOT LESS THAN & PERCENT OF THE FLOOR AREA OF SUCH ROOMS. NATURAL VENTILATION SHALL BE THROUGH MINDONS, SKYLIGHTS, DOORS, LOWERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR, SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERNISE 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

DATIFECTION, WATER CLOSEL COMPARIMENTS AND OTHER SIMILAR ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREAS IN WINDOWS OF NOT LESS THAN 3 SQUARE FEET, ONE-HALF OF WHICH MUST BE OPENABLE.

INDIVIDUAL GLAZED AREAS, INCLUDING GLASS MIRRORS IN

ING AND BIFOLD DOORS

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:

SLUTING AND STICLED DOORS GLAZING IN AN INDIVIDUAL FIXED 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 WALKING

3.I EXPOSED AREA OF AN INDIVIDUAL PANE LARGER THAN 9 SQUARE

3.4 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,

SLALING IN DOOD AND ENDOWED FOR INOT IDD, INTELEDUED SAINAS, STEAM ROOMS, BATHTUBS AND SHOVERS, GLAZING ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN GO INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.

GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR

WIMMING POOLS, HOT TUDS AND SPAS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE AND WITHIN 60 INCHES HORIZONTALLY OF THE MATERS EDGE. THIS SHALL APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE

GLAZING ADJACENT TO STAIRWAYS, LANDINGS AND RAMPS MITHIN 36 INCHES HORIZONTALLY OF A WALKING SURFACE MHEN THE EXPOSED SURFACE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE

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.

THE AD IACENT WALKING SURFACE

GLAZING SHALL BE IN ACCORDANCE WITH ENERGY COMPLIANCE CALCULATIONS BASED ON A LOCALLY ADOPTED ENERGY CODE, THE MODEL ENERGY CODE OR THE INTERNATIONAL ENERGY CONSERVATION CODE.

IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES (824 MM) ABOVE THE FINISHED GRADE OR SURFACE BELION, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES (810 MM) ABOVE THE FINISHE FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED, OPERABLE SECTIONS OF WINDOWS SHALL NOT FERNIT OFENINGS THAT ALLOW

PASSAGE OF A 4 INCH (IO2 MM) DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES (6IO MM) OF THE FINISHED FLOOR.

HINGED SHOWER DOORS SHALL OPEN OUTWARD.

GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING

GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:

3.2 BOTTOM EDGE LESS THAN IS INCHES ABOVE THE FLOOR

3.3 TOP EDGE MORE THAN 36 INCHES ABOVE THE FLOOR

EXCEPT AS INDICATED, EACH PANE OF GLAZING INSTALLED IN HAZARDOUS

EXCEPT AS INDICATED, EACH PANE OF GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BE PROVIDED WITH MANUFACTURE'S DESIGNATION SPECIPYING WHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS AND THE SAFETY GLAZING STANDARD WITH MHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION SHALL BE ACID ETCHED, SANDELASTED, CERANIC-FIRED, LASRE ETCHED, DEMOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT BEING DEETOTOTO

FINISHES

GYPSIM BOARD

2.

SYPSUM 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 GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO ASTM C 22, C 475, C 514, C 1002, C 1047, C 117, C 1178, C 1278, C 1368, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE NG.-R ADHESIVES FOR THE INSTALLATION OF GYPSUM BOARD SHALL CONFORM TO ASTM C 557.

SYPSUM 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 ALL EDGES AND ENDS OF GYPSUM BOARD SHALL OCCUR ON THE FRAMING MEMBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERFENDICULAR TO THE FRAMING MEMBERS. EDGES AND ENDS OF GYPSUM BOARD SHALLE BIN MODERATE CONTACT EXCEPT IN CON-CEALED SPACES WHERE FIRE-RESISTACE-RATED CONSTRUCTION. SHEAR RESISTANCE, OR DIAPHRAGM ACTION IS NOT REQUIRED. CEALED SPACES WHERE FIRE-RESISTACE-RATED CONSTRUCTION.

FASTENERS AT THE TOP AND BOTTOM PLATES OF VERTICAL ASSE TO SUPPORTS AND ENDS OF HORIZONTAL ASSEMBLIES PERPENDICULAR TO SUPPORTS, AND AT THE WALL LINE MAY BE OMITTED EXCEPT ON SHEAR-RESISTING ELEMENTS OR FIRE. RESISTIVE ASSEMBLIES. FASTENCE SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE PAREN WITH THE FASTENCE HEAD. ON ASTENERS

SYPSUM BOARD USED AS THE BASE OR BACKER FOR ADHESIVE APPLICATION OF CERANIC LIE OR OTHER REQUIRED NON-ABSORBENT FINISH MATERIAL SHALL CONFORM TO ASTM C 1986, C 1173 OR C1278. USE OF WATER-RESISTANT GYPSUM BACKING BOARD SHALL BE PERN CEILINGS WHERE FRAMING SPACING DOES NOT EXCEEP 12 INCHES ON CENTER FOR 1/2-INCH-THICK OR 16 INCHES FOR 5/8-INCH-THICK GYPSUM BO WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT. CUT OR EXPO 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 HUMIDITY.

WHEN APPLYING A WATER-BASED TEXTURE MATERIAL, THE MINIMUM GYPSUM BOARD THICKNESS SHALL BE INCREASED FROM 3/8 INCH TO 1/2 INCH FOR 16-INCH ON CENTER FRAMING, AND FROM 1/2 INCH TO 5/8 INCH FOR 24-INCH ON CENTER FRAMING OR 1/2 INCH SAG-RESISTANT GYPSUM CEILING BOARD SHALL BE USED.

EXTERIOR LATH

AZARDOUS

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.

INLESS SPECIFIED OTHERWISE, ALL WALL COVERINGS SHALL BE SECURELY FASTENED PER THE N.C.-R. OR WITH OTHER APPROVED ALLMINUM, STAINLESS STELL, ZIAC-COATED OR OTHER APPROVED CORROSION-RESISTIVE FASTENERS, MERE THE BASIC WIND SPEED IS 10 MILES PER HOR OR HIGHER, THE ATACHMENT OF WALL COVERINGS SHALL BE DESIGNED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED AND ADJUSTED FOR HEIGHT AND EXPOSURE

A MINIMUM ODIG-INCH INCH AND EAR DATA SHEET GAGE), CORROSION-RESISTANT MEEP SCREED OR PLASTIC WEEP SCREED, WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 51/2 INCHES SHALL BO RROVIDED AT OR BELON THE FOUNDATION PLATE LINE ON EXTERIOR STUD MALLS IN ACCORDANCE WITH ASTIK O 202. THE WEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAVED AREAS AND SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED MATER TO DRAIN TO THE EXTERIOR OF THE BUIDING. THE MEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE. THE SCREED SCREED.

EXTERIOR PLASTER

з.

PLASTERING WITH PORTLAND CEMENT PLASTER SHALL BE NOT LESS THAN PLASTERING WITH FORTLAND CEMENT PLASTER SHALL BE NOT LESS THAN THREE COATS WEN APPLIED OVER METAL LATH OR WIRE LATH AND SHALL BE NOT LESS THAN TWO COATS WHEN APPLIED OVER MASONEY, CONCRETE, PRESSURE-PRESERVATURE TREATED WOOD OR DECAT-RESISTANT WOOD OR SYPSWH BACKING, IF THE PLASTER SURFACE IS COMPLETELY CONCREDE DY VENEER OR OTHER FACING MATERIAL OR IS COMPLETELY CONCRELED DY 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 CEMENTITIOUS MATERIALS SHALL BE AS SET FORTH PER THE N.C.-R

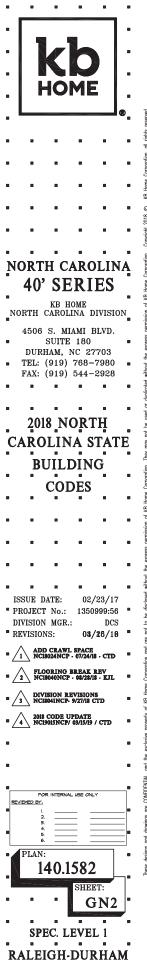
ONLY APPROVED PLASTICITY AGENTS AND APPROVE AMOUNTS THEREOF MAY BE ADDED TO PORTLAND CEMENT, INHEN PLASTIC CEMENT IS USED, NO ADDITIONAL LIME OR PLASTICIZERS SHALL BE ADDED, HYDRATED LIME OR THE EQUIVALENT AMOUNT OF LIME PUTTY USED AS A PLASTICIZER MAY BE ADDED TO CEMENT PLASTER OR CEMENT AND LIME PLASTER IN AN AMOUNT NOT TO EXCEED THAT SET FORTH IN ASTM C 926

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 THMFERATURE IS HIGHER THAN 40 DEGREES F (4 DEGREES C), UNLESS PROVISIONS ARE MADE TO KEEP CONTON 14 DEGREES (4 DEGREES (4 DEGREES C) REION FLASTER WORK ABOVE 40 DEGREES (4 DEGREES C), PRIOR TO & DURING APPLICATION AND 48 HOURS THEREAFTER.

COLOR AND FINISH TO BE SELECTED AND APPROVED BY OWNER BUILDER AND ARCHITECT.

-COAT EXTERIOR PLASTER SYSTEM SICH AS "MAGNA WALL A I-COAL EALERICK PLASTER STOLM SUCH AS MAGNA WALL I.C.C. NO. ER-4716, "EXPO FIBSEMALL" I.C.C. NO. ER-4368, OR APPROVED EQUAL MAY BE USED IN LIEU OF A 3-COAT EXTERIOR PI ASTER SYSTEM



SERIES

40'

MECHANICAL & PLUMBING

H.V.A.C.

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANICAE WITH THE NORTH CARDINAR 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 CABLE PROVISIONS OF THE NORTH CAROLINA RESIDENTIAL AND FUEL CABLE PROVISIONS OF THE NORTH CAROLINA
- CONTRACTOR SHALL DESIGN ENTIRE H.V.A.C. SYSTEM AND SUBMIT DRAMINGS 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 DIVELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DALLY SCHEDULE TO MAINTAIN DIFFERENT THEREATAURE SET POINTS AT DIFFERENT TIMES OF THE DAY, THIS THERMOSTAT SHALL INCLUDE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM OF MAINTAIN ZONE TEMPERATURES DOWN TO 55 DEG, F (13 C) OR UP TO 85 DEG, F (24 C).
- ALL DUCTWORK SHALL CONFORM TO THE REQUIREMENTS OF THE 5
- COMBUSTION AIR SHALL BE PROVIDED FOR FORCED AIR UNITS IN ACCORDANCE WITH N.C.-R 6.
- CONTRACTOR TO PROVIDE BOOT IN DUCTWORK WHEN OPTIONAL "HONEYWELL" OR "CARRIER" ELECTRONIC AIR CLEANER IS PROVIDED.
- DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE SHEET STEEL OR OTHER I BE ROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GARAGE PER NC.-
- EXTERIOR-GRADE INSTALLATIONS. EQUIPMENT AND APPLIANCES INSTALLED ABOVE GRADE LEVEL SHALL BE SUPPORTED ON A SOLID BASE OR APPROVED MATERIAL A MINIMM 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 (5) MW) THICK FORMED CONCRETE, OR STACKED MASONEY UNITS HELD IN PLACE BY MORTAR OR OTHER APPROVED METHOD. THE MATER HEATER SHALL BE SUPPORTED NOT LESS THAN 2 METHOD. THE MAILER TH INCHES ABOVE GRADE
- DRAINAGE. BELON-GRADE INSTALLATIONS SHALL BE PROVIDED WITH A NATURAL DRAIN OR AN AUTOMATIC LIFT OR SUMP PUMP. FOR PIT REGUIREMENTS REFER TO N.C.-M 12

VENTING

- IN LIEU OF REQUIRED EXTERIOR OPENINGS FOR NATURAL VENTILATION N BATHRO OMS CONTAINING A BATHTUB, SHOWER OR COMBINATION THEREOF, A MECHANICAL VENTILATION SYSTEM MAY BE PROVIDED. THE MINIMUM VENTILATION SYSTEM MAY BE PROVIDED. THE MINIMUM VENTILATION RATES SHALL BE SO CFM FOR INTERNITTENT VENTILATION OR 20 CFM FOR CONTINUOS VENTILATION, VENTILATION AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE DER MC.25
- AUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL 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 BE EQUIPPED WITH A BACK-DRAFT DAMPER AND SHALL BE INDEPENDENT OF ALL OTHER EXHAUST SYSTEMS, DUCTS SERVING RANGE HOODS SHALL NOT TERMINATE IN AN ATTIC OR CRAML SPACE OR AREAS INSIDE THE BULLONG, DUCTS SERVING RANGE HOODS SHALL BE CONSTRUCTED OF GALVANIZED STEEL, STAINLESS STEEL OR COPPER.
- WHERE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S THEAT INSTALLATION INSTRUCTIONS, AND WHERE MECHANICAL OR NATURAL VISTALLATION IS OTHERNISE PROVIDED, LISTED AND LABELED DICTLESS RANGE HOODS SHALL NOT BE REQUIRED TO DISCHARGE TO THE OUTDOORS PER N.C.-M
- DUCTS FOR DOMESTIC KITCHEN COOKING APPLIANCES EQUIPPED WITH DOWN DRAFT EXHAUST SYSTEMS SHALL BE PERMITTED TO BE CONSTRUCTED OF SCHEDILE 40 PVC PIPE PROVIDED THAT TH INSTALLATION COMPLIES WITH 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. C.
- THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE GRADE OUTSIDE THE BUILDING. D.
- E. THE PVC DUCTS SHALL BE SOLVENT CEMENTED.
- EXHAUST HOOD SYSTEMS CAPABLE OF EXHAUSTING IN EXCESS OF 400 CPM SHALL BE PROVIDED WITH MAKEUP AIR AT A RATE APPROXIMATEL EQUAL TO THE EXHAUST AIR RATE THAT IS IN EXCESS OF 400 CUBIC FE PER MINUTE. SUCH MAKEUP AIR SYSTEMS SHALL BE EQUIPPED WITH A MEANS OF CLOSURE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OFERATE SIMULTANEOUSLY WITH THE EXHAUST SYSTEM. FEE DAMPERS SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION
- DOMESTIC WATER HEATERS, UNLESS SPECIFIED OTHERWISE BY THE DOMESTIC MATER HEALENS, WILESS SHECITED OTHERMISE BY THE MANUFACTURERS INSTALLATION INSTRUCTIONS, SHALL BE VENTED THE OUTSIDE AIR BY A TYPE BY VENT AND COMPLY WITH THE REQUIREMENTS OF THE N.C.-M

PLUMBING

- A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN SUCH A MANNER SO AS TO PREVENT CONTAMINATION FROM NONPOTABLE LIQUIDS, SOLIDS OR GASES BEING INTRODUCED INTO THE POTABLE WATER SUPPLY THROUGH CROSS-CONNECTIONS OR ANY OTHER PIPING CONNECTIONS TO THE SYSTEM. BACKFLOW PRE- VENTER APPLICATIONS SHALL CONFORM TO NC-P.
- 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 AII2.10.1.

MECHANICAL &

PLUMBING (continued) PLUMBING (continued

- ALL DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTL-LATION, ROCCESSING, COOLING, OR STORAGE OF ICE OR FOODED, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH BORDETION LOGINET BACKED (ON ADD CONTAININGTION OF THE WITH PROTECTION AGAINST BACKFLON AND CONTAMINATION OF THE WATER SUPPLY SYSTEM, WATER FUMPS, FILTERS, SOFTENERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREA POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION
- WATER 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 AII2.18.1 IN ADDITION TO THE REQUIREMENTS IN N.C.-P
- 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 ACCERTAIN THE ACCEPTABLITY OF THE WATER SERVICE OR WATER DISTRIBUTION PIPING MATERIAL FOR THE SERVICE OR WATER DETRIMENTAL CONDITIONS EXIST, PAREOVED ALTERNATIVE MATERIALS OR ROUTING SHALL BE REQUIRED.
- WATER DISTRIBUTION PIPE SHALL CONFORM TO NOF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C.-PLUMBING. WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 100 PSI AT 160 DEGREES F. ALL
- PIPE PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINS EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT WILL WITHSTAND 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 PHYSICAL DAMAGE PER NC-R.
- 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 COMPORENTS.
- 12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. IN OTHER CASES, WATER, SOIL AND WASTE PIPES SHALL NOT BE INSTALLED OUTSIDE OF A BUILDING, IN UNCONDITIONED ATTICS, UNCONDITIONED OUTSIDE OF A BUILDING, IN UNCONDITIONED ATTICS, UNCONDITIONED UTILITY ROOMS OR IN ANY OTHER PLACE SUBJECTED TO FREEING TEMPERATURES UNLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPES FROM FREEZING BY A MININUM OF R-65 INSULATION DETERMINED AT T5 DEG. F IN ACCORDANCE WITH ASTM CITT OR HEAT 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 SEVER PIPE SHALL CONFORM TO ONE OF THE STANDARDS 13.
- BUILDING SEMER PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION MITH THE PIPING MATERIAL INSTALLED AND SHALL CONFORM TO THE RESPECTIVE PIPE STANDARDS OR ONE OF THE STANDARDS LISTED IN 14
- 15. WHERE WASTE LINE DROPS OCCUR IN A LOCATION WHERE THE SOUND OF 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 SEWERS 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 SHOMER AND TUB/SHOMER COMBINATION VALVES SHALL BE EQUIPPED WITH CONTROL VALVES OF THE PRESSURE-BALANCE, THERMOSTATIC-MIXING OR COMBINATION PRESSURE-BALANCE/ THERMOSTATIC-MIXING VALVE TYPES WITH A HIGH LIMIT STOP IN ACCORDANCE WITH ASSE [OI6/ ASME AII2.1016/CSA BI25.16. AND SHALL BE INSTALLED AND ADJISTED PER MANUFACTURES INSTRUCTIONS.
- GAS AND ELECTRIC WATER HEATERS HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18 INCHES ABOVE THE GARAGE FLOOR, REFER TO N.C.-R FOR EXCEPTION.
- 20. WATER HEATERS, (USING SOLID, LIQUID OR GAS FUEL) WITH THE EXCEPTION WATER HEATERS, USING SOLUD, LIQUID OR GAS FUEL) WITH THE EXCEPTION OF THOSE HAVING DIRECT VENT SYSTEMS, SHALLN OT BE INSTALLED IN BATHROOMS AND BEDROOMS OR IN A CLOSET WITH ACCESS ONLY THROUGH A BEDROOM OR BATHROOM, HONEVER, MATER 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 TOMNHOUSES IN SEISMI DESIGN CATEGORY C, MATER HEATERS SHALL BE ANCHORED OR STRAPPED IN THE UPPER ONE-THIRD OF THE APPLIANCE TO RESIST A HORIZONTAL FORCE EGUAL TO ONE-THIRD OF THE APPLIANCE MEIGHT OF THE MATER HEATER, ACTING IN ANY HORIZONTAL DIRECTION, OR IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S 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: MERCE TAILER HEALENS OK NOT MALER SICKIGE LANDS ARE NO ALLED IN REMOTE LOCATIONS SUCH AS SUSPENDED CEILING, ATTICS, ABOVE OCCUPIED SPACES, OR UNVENTILATED CRANL 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 MINIMUM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE.
- WHERE CLOTHES WASHING MACHINES ARE LOCATED ON WOOD FRAMED FLOORS WHERE LEAKAGE WOLLD CAUSE DAMAGE, A GALVANIZED STEEL PAN HAVING A MINIMUM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE SHALL BE PROVIDED.

MECHANICAL &

PLUMBING (continued)

- 25. 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 VALVES SHALL HAVE A MINIMUM BATE CARACITY COR THE EQUIPMENT EED/ED AND SHALL HAVE A HREBSURE-ARD-IEMPERATURE RELIEF VALVE. RELIEF VALVES SHALL A MINIMUM RATED CAPACITY FOR THE EQUIPMENT SERVED AND SHALL CONFORM TO ANSI Z2122. THE RELIEF VALVE SHALL NOT BE USED AS A MEANS OF CONTROLLING THERMAL EXPANSION.
- THE WATER SUPPLY TO A DISHWASHER SHALL BE PROTECTED AGAINST BACKFLOW BY AN AIR GAP COMPLYING WITH ASME AII2.1.3 OR AII2.1.2 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 THO-COMPARIMENT SINK, WITH OR WITHOUT A FOOD-WASTE DISPOSER, SHALL BE SERVED BY A TRAP OF NOT LESS THAN 1/2 INCHES (36 MM³) IN OUTSIDE DIAMETER. THE DISHWASHER DISCHARGE PIPE OR TUBINS SHALL RISE TO THE UNDERSIDE OF THE CONTER AND SHALL BE SECURELY FASTENED TO THE UNDERSIDE OF THE SINK RIM OR COUNTER BEFORE CONNECTING TO THE HEAD OF THE FOOD-WASTE DISPOSER OR TO A WYE EVITUAL WIE SINK THE DISPOSE 27. FITTING IN THE SINK TAILPIECE.

FIREPLACES

- FACTORY-BUILT FIREPLACES SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS OF LISTING. FACTORY-BUILT FIREPLACES SHALL BE TESTED IN ACCORDANCE WITH UL 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 2. 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-MANLIKE MANNER.
- ALL 125-VOLT, SINGLE-PHASE, IS- AND 20-AMPERE RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED BELON SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. THE GROUND-FAULT CIRCUIT-INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- A. BATHROOMS.
- 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. B.
- OUTDOORS C.

G.

- CRAML SPACES. WHERE THE CRAML SPACE IS AT OR BELOW GRADE LEVEL. D.
- UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS. E.
- KITCHENS. WHERE THE RECEPTACLES ARE INSTALLED TO SERVE THE COUNTERTOP SURFACES.
- SINKS. WHERE RECEPTACLES ARE INSTALLED WITHIN 6 FT FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK. BOAT HOUSES H
- BATHTUBS OR SHOWER STALLS WHERE RECEPTACLES ARE INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL.
- J. LAUNDRY AREAS
- DISHWASHER GFCI PROTECTION IS NOT REQUIRED FOR OUTLETS THAT SUPPLY DISHWASHERS INSTALLED IN DWELLING UNIT LOCATIONS.
- CRAWL SPACE LIGHTING OUTLETS. GFCI PROTECTION SHALL BE PROVIDED FOR LIGHTING OUTLETS NOT EXCEEDING 120 VOLTS INSTALLED IN CRAWL SPACES.
- APPLIANCE RECEPTACLE OUTLETS INSTALLED IN A DWELLING UNIT FOR SPECIFIC APPLIANCES, SUCH AS LAUNDRY 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 DMELLING UNITS, RECEPTACLE DITLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLUDING ANY HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLUDING ANY MALL SPACE 2 FEET OR MORE: IN WITH (INCLUDING SPACE MEASURED AROUND CORNERS) AND UNBROKEN ALONG THE FLOOR LINE BY DOORNATS AND ISMILAR OPENINGS, FIREPLACES, AND FIXED CABINETS, AND THE WALL SPACE OCCUPIED BY FIXED PANELS IN ENTERIOR MALLS BUT EXCLUDING SUBJICS PANELS IN EXTERIOR WALLS. THE WALL SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING BAR-TYPE CONTERS OR RAILINGS, SHALL BE INCLUDED IN THE 6 FOOT MEASUREMENT.
- IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR IN THE NITCHEN, PANINT, DREAR AST ROOM, DINING ROOM, OR SIMIL AREA OF A DRELLING UNIT, THE TWO OR MORE 20-AMPERE SMALL APPLIANCE BRANCH CIRCUITS REQUIRED SHALL SERVE ALL MALL AND FLOOR RECEPTACLE OUTLETS, ALL COUNTERTOP OUTLETS, AND RECEPTACLE OUTLETS FOR REFRIGERATION EQUIPMENT 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 TH FOLLOWING: 10.
- A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTER SPACE 12 INCHES OR WIDER. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE MALL LINE IS MORE THAN 24 INCHES MEASURED HORIZONTALLY FROM A RECEPTACLE OUTLET IN THAT SPACE. (1)

ELECTRICAL (continued)

- (2) AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH ISLAND COUNTER SPACE WITH 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 FENNSULAR COUNTER SPACE WITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER, A PENNSULAR COUNTERTOP IS MEASURED FROM CONVECTING PERPENDICULAR WALL. (3)
- COUNTERTOP SPACES SEPARATED BY RANGE TOPS, REFRIGER-ATORS, OR SINKS SHALL BE CONSIDERED AS SEPARATE COUNTER-TOP SPACES IN APPLYING THE REQUIREMENTS OF (1), (2), AND (3) ABOVE... IF A RANGE, COUNTER-MOUNTED COOKING WIT, OR SINK (4) ABOYE. IF A RANGE, CONTERMOUNTED COOKING UNIT, ON SINS IS INSTALLED IN AN ISLAND OR PENNENJAR CONTERTOR AND THE DERTH OF THE CONTERT BEHIND THE ITEM IS LESS THEN I 2 INCHES. IT WILL BE CONSIDERED TO DIVIDE THE CONTERTOR SPACE INTO THO SEPARATE CONTERTOR SPACES. EACH CONTERTOR SPACE SHALL COMPLY WITH APPLICABLE REQUIREMENTS.
- RECEPTACLE OUTLETS SHALL BE LOCATED NOT MORE THAN 20 INCHES ABOVE THE COUNTERTOP. RECEPTACLE OUTLETS RENDERED NOT READULT ACCESSIBLE BY APPLIANCES FRASTENED IN PLACE. APPLIANCE GARAGES, SINKS, OR RANGETOPS AS COVERED IN 4) ABOVE, OR APPLIANCES OCCUPYING DEDICATED SPACE SHALL NOT BE CONSIDERED AS THESE REQUIRED OUTLETS. (5)
- 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 CONTENTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET NOT MORE HAN 12" BELOW THE COUNTERTON
- 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 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, TO BE COVERED BY NALLBOARD, SIDING, PANELING, CARPETING, OR SIMILAR FINISH, SHALL BE PROTECTED BY 1/16 INCH THICK STEEL PLATE, SLEEVE, OR EQUIVALENT OR BY NOT LESS THAN I-1/4 INCH FREE SPACE FOR THE FULL LENSTH OF THE GROOVE IN MHICH THE CABLE OR RACEWAY IS INSTALLED.
- 15. RECEPTACLES IN DAMP OR WET LOCATIONS.
- A. A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED A RECEIVED INSTALLED OF DOADNE IN A BOATRAIN HAVE AN FROM NEATHER OR IN OTHER DAME LOCATIONS SHALL HAVE AN ENCLOSURE FOR THE RECEIVED LETHAT IS NEATHERROOP WHEN THE RECEIVED LIS COVERED. (ATTACHMENT FUE CAP NOT INSERTED AND RECEPTACLE COVERS CLOSED.)
- ALL IS- AND 20- AMPERE, I25- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS MEATHER RROOF WHETHER OR NOT THE ATTACHMENT PLUG 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, ISS- AND 250-VOLT NONLOCKING RECEPTACLES SHALL BE LISTED WEATHER RESISTANT TYPE.
- 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 ANCE WITH NEC
- ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS 18. ALL 122-VOLT, SINGLE PHASE, IS- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DMELLING WITH FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWATS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRIPTER(S), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. THE ARC-FAULT CIRCUIT INTERRIPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.

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.

I RECEPTACLES LOCATED MORE THAN 5% ABOVE THE FLOOR

4. NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS.

DIMMER-CONTROLLED RECEPTACLES. A RECEPTACLE SUPPLYING LIGHTING LOADS SHALL NOT BE CONNECTED TO A DIMMER WLESS TH PLUS/RECEPTACLE COMBINATION IS A NORSTANDARD CONFERNATION TYPE THAT IS SPECIFICALLY LISTED AND IDENTIFIED FOR EACH SUCH NUMBER COMMAND.

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 WARKING EQUIPMENT PROVISIONS OF INPA T2.

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

HOUSEHOLD FIRE ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NFPA T2 THAT INCLUDE SMOKE ALARMS, OR A COMBINATION OF SMOKE DETECTOR AND AUDILE NOTIFICATION DEVICE INSTALLED AS REQUIRED BY THE NC-R R3I4.3 FOR SMOKE ALARMS, SHALL BE FERMITTED. THE HOUSEHOLD FIRE ALARM SYSTEM SHALL PROVIDE THE SAME LEVEL OF SMOKE DETECTION AND ALARM AS REQUIRED BY THE INC-R FOR SMOKE ALARMS IN THE VEVENT THE FIRE ALARM PANEL IS REMOVED OR THE SYSTEM IS NOT CONNECTED TO A CENTRAL STATION.

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.

20. TAMPER-RESISTANT RECEPTACLES IN DWELLING UNITS IN ALL AREAS. ALL NON-LOCKING TYPE 125-VOLT IS-AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS

LISTED BELOW

UNIQUE COMBINATION

SMOKE DETECTORS

21.

ELECTRICAL (continued)

CARBON MONOXIDE ALARMS

CARBON MONOXIDE ALARMS IN DWELLING UNITS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS. WHERE A FLEL-BURNING APPLIANCE IS LOCATED MITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED NITHIN THE BEDROOM

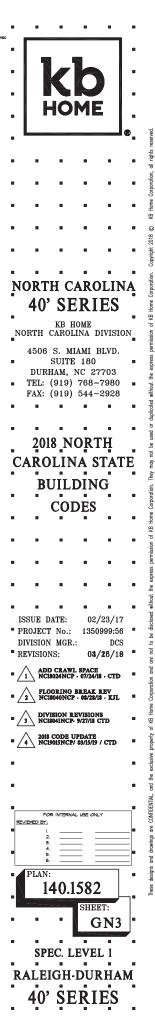
SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING MITH UL 2034 AND SHALL BE INSTALLED IN ACCORDANCE MITH THE NC-R RSI5 AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS.

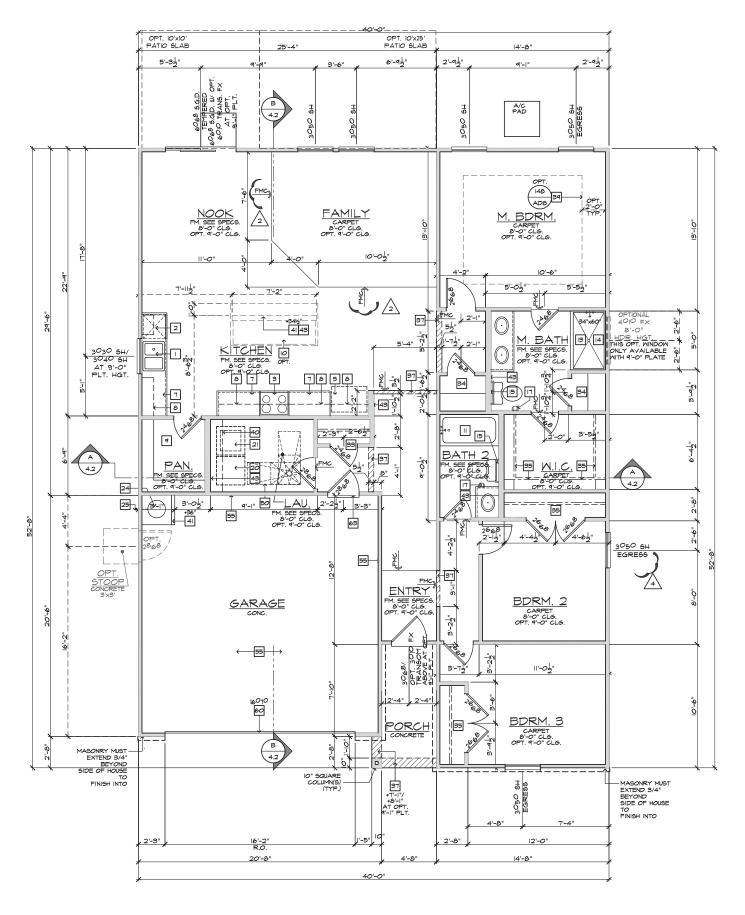
COMBINATION CARBON MONOXIDE

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





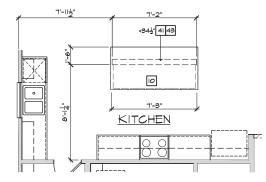
	SQUARE FOOTAGE	1	
	PLAN 140.1582		
FLOOR AREA		1582	
TOTAL AREA		1582	SQ. FT.
GARAGE AREA		417	SQ. FT.
PORCH AREA(S)			
	ELEVATION 'A'	52	SQ. FT.
	ELEVATION 'B'	36	SQ. FT.
	ELEVATION 'C'	44	SQ. FT.
	ELEVATION 'D'	64	SQ. FT.
PATIO AREA(S)			
	IO'XIO' COVERED	100	SQ. FT.
	25'x10' EXT. COVD.	250	SQ. FT
DECK AREA(S)			
	12'XI2' DECK	124	SQ. FT.
	12'X25' ENL. DECK	250	SQ. FT.
GI	ENERAL PLAN N	OTES	2018 N.CR
ALL CEILING HEIGHT	IS PER SECTION AND EL	EVATION P	LATE
	RS TO BE HOLLOW COR .AN FOR SIZE).	E 3/8" THI	СК,
	ICE DOORS TO BE HOLI REFER TO PLAN FOR SI		
	AGE DOORS TO BE 20-		E-RATED
ALL ENTRY DOORS	AND EXTERIOR FRENCH THICK (REFER TO PLAN	DOORS TO) BE
	IAL CHANGES TO OCCU		
	PLATE NOTES		2018 N.CR
	8'-I" PLATE NOT	ES	
ENTRY DOOR H	IDOW HDR. HEIGHT: EIGHT: DOOR HEIGHT: IT HEIGHT:	6'-8" U.N.O 7'-0" U.N.O 6'-8" U.N.O 6'-8" (TEM 7'-4" U.N.O 6'-8" U.N.O	P.)
	9'-I" PLATE NOT	ES	
 4010 WINDOW C ENTRY DOOR H 	DOOR HEIGHT:	7'-8" U.N.O 8'-4" U.N.O 6'-8" U.N.O 6'-8" (TEM 8'-0" U.N.C 7!4" DROP 6'-8" U.N.O	

FLOOR PLAN

SCALE: 1/4"=1'-0" (22"x84") - 1/8"=1'-0" (11"x17")

#	FLOOR PLAN NOTES	· · · · · ·
l.	SINK WITH GARBAGE DISPOSAL - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
2.	DISHWASHER - PROVIDE SURFACE MOUNT AIR GAP	
	VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
9.	SLIDE-IN RANGE/ OVEN COMBINATION W BUILT-IN LIGHT & FAN (VENT TO OUTSIDE AIR) - VERIFY WITH MANUFACTURER SPEC'S.	· KD ·
4.	36" COOKTOP - W BUILT-IN HOOD WLIGHT & FAN. (VENT TO OUTSIDE AIR) - CABINET MOUNTED MICROWAVE INCLUDED	
	OUTSIDE AIR) - CABINET MOUNTED MICROWAVE INCLUDED OVEN WITH VENT - VERIFY WITH MANUFACTURER SPEC'S.	
5.	94" CLEAR REFRIGERATOR SPACE - PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL).	
6.	DOUBLE OVEN - VERIFY WITH MANUFACTUER SPEC'S.	· · · ·
7. 8.	BASE CABINETS - REFER TO INTERIOR ELEVATIONS	
о. е.	PANTRY - SHELVES PER SPEC	
	ISLAND CABINET - REFER TO INTERIOR ELEVATIONS	
ю.	TUB/SHOWER COMBINATION WITH 12" FIBERGLASS ENCLOSURE	
	(NON-ABSORBENT) VERIFY DIMENSIONS WITH MFR'S SPEC'S.	
12.	OVAL TUB - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
19.	SHOWER PAN WITH WAINSCOT TO 84" - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
14.	SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE	
	TOWEL BAR	
	NOT USED	
17.		NORTH CAROLINA
18. 19.	EXTEND VANITY - REFER TO INTERIOR ELEVATIONS	40' SERIES
	OPTIONAL SINK	TO SERIES
20.	PROVIDE WATER AND WASTE FOR WASHER (WASHER CONTROL VALVES) (RECESSED IN WALL)	KB HOME
21.	DRYER VENT	NORTH CAROLINA DIVISION
22	NOT USED	4506 S. MIAMI BLVD.
	NOT USED FREE STANDING LAUNDRY SINK - VERIFY DIMENSIONS	• SUITE 180 •
20.	FREE STANDING LAUNDRY SINK - VERIFY DIMENSIONS WITH MFR'S SPEC'S.	DURHAM, NC 27703
24.	ELECTRIC WATER HEATER - LOCATE ON 18" HIGH FRAMED PLATFORM	• TEL: (919) 768-7980 •
25.		FAX: (919) 544-2928
	TEMPERATURE AND PRESSURE RELIEF VALVE DRAIN TO EXTERIOR - MIN. 6" ABOVE & MAX. 24" ABOVE GRADE	
	NOT USED	
	NOT USED	
28.	PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS	2018 NORTH
		CAROLINA STATE
	NON-COMBUSTIBLE HEARTH MATERIAL	CAROLINA SIATE
30.	ROUTE OF FIREPLACE "B" VENT FROM BELOW - PROVIDE O.S.B. SHAFT	BUILDING
SI.	+36" SUARD WALL DETAIL 84/AD5 OR 86/AD5	BUILDING
	+34" - +38" HIGH HANDRAIL DETAIL 83/AD5	CODES
3 3.	COATS WITH SHELF & POLE - DETAIL 73/AD4	
	LINEN - SHELVES PER SPEC	
35 .	WARDROBE WITH SHELF & POLE - DETAIL 73/AD4 U.N.O.	
36.	MEDIA NICHE - REFER TO INTERIOR ELEVATIONS	
3 7.	FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT	
38.	NOT USED	
9 9.	LINE OF CEILING BREAK	
40.	INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT.	
41.	LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4	
42.	LOCATION OF PLUMBING WASTE DROP FROM ABOVE	ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56
48.	2x6 WALL	DIVISION MGR.: DCS
	2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	REVISIONS: 03/26/19
	DOUBLE 2×4 WALL	
	LINE OF FLOOR ABOVE	ADD CRAWL SPACE
	LINE OF FLOOR BELOW	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	EXTERIOR RAIL	Z NCIS040NCP - 05/23/18 - KJL
	F.A.J. VENT TO OUTSIDE AIR	DIVISION REVISIONS
	22"x54" ATTIC ACCESS W STAIRS	3 NCI8041NCP- 9/27/18 CTD
51.	F.A.U. IN ATTIC - PROVIDE MIN. 22"X80" ATTIC ACCESS PANEL - PROVIDE FUEL GAS, REFER TO UTILITY PLAN	2018 CODE UPDATE
	DETAIL 88/AD5 DUCT CHASE - DETAIL 89 & 90/AD5 - REFER TO MECH, PLAN	4 NC19015NCP/ 03/15/19 / CTD
5 9.	RETURN AIR GRILL (R.A.G.) - REFER TO MECHANICAL PLAN	-
54.	1/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS	
10. JP.		
39.	THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSIM BOARD APPLIED TO THE GARAGE SIDE	
		FOR INTERNAL USE ONLY REVIEWED BY.
.00	SEPARATION BETWEEN SECOND FLOOR AND GARAGE CELLINS, PROVIDE (I) LAYER OF 36" TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CELLING: PROVIDE (I) LAYER OF 15"	
	GYP5UM BOARD	
57.	Exterior shelf - Refer to elev. For height	
58.	NOT USED	
54.	NOT USED	140.1582
60.	SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION	SHIPT:
	NOT USED	• • • 11
62.	DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 SQUARE FEET, DIVIDED SPACES MUST BE	1.1
	EXCEEDING 1000 SQUARE FEET, DIVIDED SPACES MUST BE ROUGHLY EQUAL.	· · · · · · ·
63.	OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPED	SPEC. LEVEL 1
	OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPED WITH SOLID MOOD DOORS NOT LESS THAN 13/8-INCH THICK, WE STALL BE 20-MINUTE FIRE RATED. DOORS SHALL BE WE AT MENT THICKEN.	
	NOTE:	RALEIGH-DURHAM
	NOTE: FOR ALL PLAN OPTIONS REFER TO BASIC PLAN FOR INFORMATION NOT SHOWN HERE.	
	and and a rest in reaction of the strength that their	40' SERIES

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

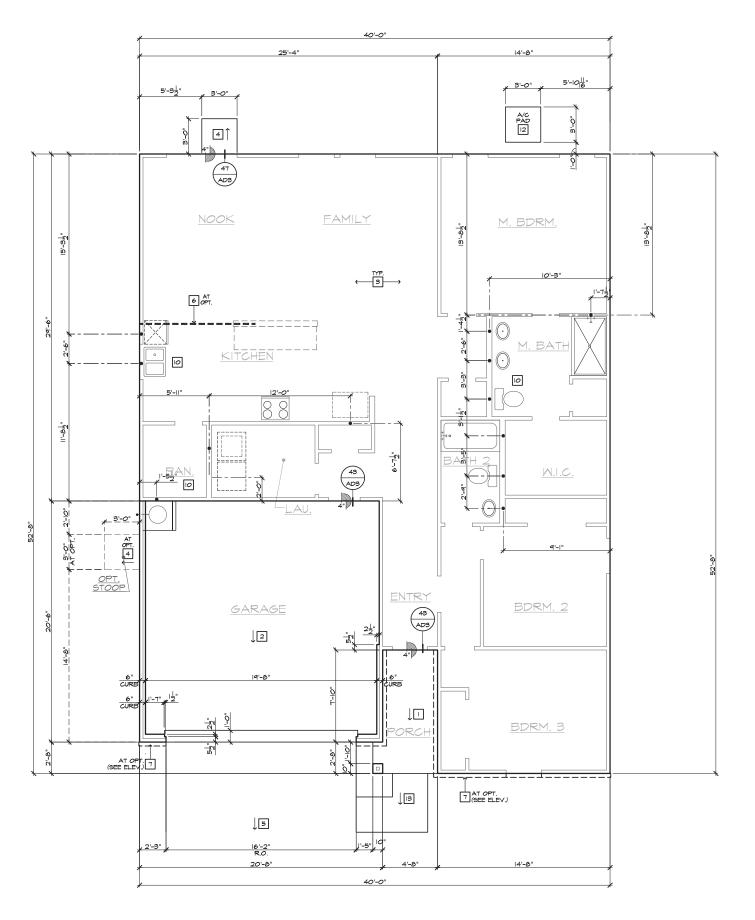


ISLAND

AT KITCHEN

 $\frac{\mathsf{FLOOR}\;\mathsf{PLAN}\;\mathsf{OPTIONS}}{\mathsf{SCALE}:\; \mathsf{I/4^*}=\mathsf{I^*}\mathsf{-}\mathsf{O^*}\;(22^*\!\!\times\!\!34^*)-\mathsf{I/8^*}=\mathsf{I^*}\mathsf{-}\mathsf{O^*}\;(\mathsf{II^*}\!\!\times\!\mathsf{IT^*})}$

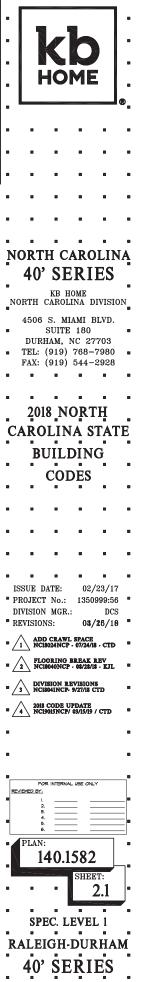
#	FLOOR PLAN NOTES	
١.	SINK WITH GARBAGE DISPOSAL - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
2.	DISHWASHER - PROVIDE SURFACE MOUNT AIR GAP	
	VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
з.	SLIDE-IN RANGE/ OVEN COMBINATION W BUILT-IN LIGHT \ddagger FAN (VENT TO OUTSIDE AIR) - VERIFY WITH MANUFACTURER SPEC'S.	
4.		
	36" COOKTOP - W BUILT-IN HOOD WLIGHT & FAN. (VENT TO OUTSIDE AIR) - CABINET MOUNTED MICROWAVE INCLUDED OVEN WITH VENT - VERIFY WITH MANUFACTURER SPEC'S.	
5.	39" CLEAR REFRIGERATOR SPACE - PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL).	
6.	POR ICEMARER (RECESSED IN WALL). DOUBLE OVEN - VERIFY WITH MANUFACTUER SPEC'S.	. L @
7.	BASE CABINETS - REFER TO INTERIOR ELEVATIONS	-
8.	UPPER CABINETS - REFER TO INTERIOR ELEVATIONS	
٩.	PANTRY - SHELVES PER SPEC	
10.	ISLAND CABINET - REFER TO INTERIOR ELEVATIONS	
н.	TUB/SHOWER COMBINATION WITH 72" FIBERGLASS ENCLOSURE (NON-ABSORBENT) VERIFY DIMENSIONS WITH MFR'S SPEC'S.	
12.	OVAL TUB - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
12. 13.	SHOWER PAN WITH WAINSCOT TO 84" - VERIFY DIMENSIONS	
	WITH MANUFACTURER SPEC'S.	
14.	SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE	
15.	TOWEL BAR	
16.	NOT USED	
17.	TOILET PAPER HOLDER	NORTH CAROLINA
18.	EXTEND VANITY - REFER TO INTERIOR ELEVATIONS	8 8
19.	OPTIONAL SINK	40' SERIES
20.	PROVIDE WATER AND WASTE FOR WASHER (WASHER CONTROL VALVES) (RECESSED IN WALL)	кв номе
21.	DRYER VENT	NORTH CAROLINA DIVISION
	NOTICED	4506 S. MIAMI BLVD.
		SUITE 180
∠ 3.	FREE STANDING LAUNDRY SINK - VERIFY DIMENSIONS WITH MFR'S SPEC'S.	DURHAM, NC 27703
24.	ELECTRIC WATER HEATER - LOCATE ON 18" HIGH FRAMED PLATFORM	■ TEL: (919) 768-7980 ■
25.		FAX: (919) 544-2928
	TO EXTERIOR - MIN. 6" ABOVE & MAX. 24" ABOVE GRADE	
	NOT USED	
	NOT USED	
28.	PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS	2018 NORTH
24	NON-COMBUSTIBLE HEARTH MATERIAL	CAROLINA STATE
	ROUTE OF FIREPLACE "B" VENT FROM BELOW -	8 8 8 8 8 8
50.	PROVIDE O.S.B. SHAFT	BUILDING
	+36" GUARD WALL DETAIL 84/AD5 OR 86/AD5	
	+34" - +38" HIGH HANDRAIL DETAIL 83/AD5	CODES
	COATS WITH SHELF & POLE - DETAIL 73/AD4	
	LINEN - SHELVES PER SPEC	
	MARDROBE WITH SHELF & POLE - DETAIL 73/AD4 U.N.O. MEDIA NICHE - REFER TO INTERIOR ELEVATIONS	
	FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT	
	NOT USED	
	LINE OF CEILING BREAK	
	INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT.	
41.	LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4	
42.	LOCATION OF PLUMBING WASTE DROP FROM ABOVE	ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56
43.	2×6 WALL	DIVISION MGR.: DCS
	2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	REVISIONS: 03/26/19
	DOUBLE 2×4 WALL	
	LINE OF FLOOR ABOVE	ADD CRAWL SPACE NCI8024NCP • 07/24/18 • CTD
	LINE OF FLOOR BELOW	FLOORING BREAK REV
		* 2 NC18040NCP · 65/25/18 · KJL *
	F.A.J. VENT TO OUTSIDE AIR 22"x54" ATTIC ACCESS W/ STAIRS	DIVISION REVISIONS
		3 NCI8041NCP- 9/27/18 CTD
.،	F.A.J. IN ATTIC - PROVIDE MIN. 22"x30" ATTIC ACCESS PANEL - PROVIDE FUEL GAS. REFER TO UTILITY PLAN DETAIL 88/AD5	2018 CODE UPDATE A 2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD
52.	DUCT CHASE - DETAIL 89 \$ 90/AD5 - REFER TO MECH. PLAN	
	RETURN AIR GRILL (R.A.G.) -	8 8
	REFER TO MECHANICAL PLAN	
54.	1/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS	-
55.	THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE	
		FOR INTERNAL USE ONLY
56.	SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING; PROVIDE (1) LAYER OF ϑ^* TYPE "X" GYPSUN BOARD, NALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING; PROVIDE (1) LAYER OF $arsigma^*$	
	SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF 12" GYPSUM BOARD	2
57.	EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT	
		6
58.	NOT USED	PLAN:
59.	NOT USED	140.1582
60	SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION	CUPET.
	SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION	SHEET:
	DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES	
	ROUGHLY EQUAL.	
63.		SPEC. LEVEL 1^{1}
	OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN I 3/8-INCH THICK, OR SHALL BE 20-MINITE FIRE RATED. DOORS SHALL BE	
	WEATHERSTRIPPED	RALEIGH-DURHAM
	NOTE: FOR ALL PLAN OPTIONS REFER TO BASIC PLAN FOR	
	INFORMATION NOT SHOWN HERE.	40' SERIES

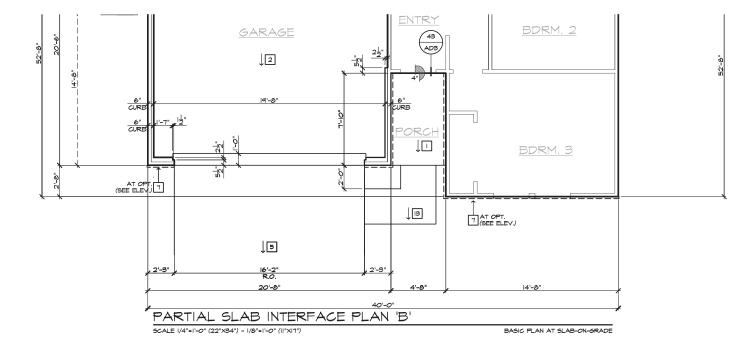


SLAB INTERFACE PLAN 'A'

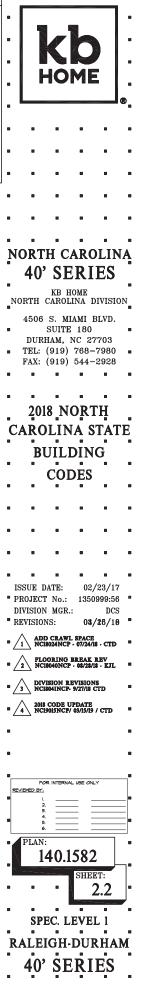
SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

#	SLAB PLAN NOTES
NO	E. NOT ALL KEY NOTES APPLY.
ι.	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. TOWARD DOOR OPENING.
З.	CONCRETE FOUNDATION PER STRUCTURAL.
4.	CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN.
5.	CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY 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.
۹.	REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
10.	VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.
П.	4" MIN. 8 1/4" MAX. TO HARD SURFACE.
12.	A/C PAD. VERIFY LOCATION.
13.	36" WIDE WALKWAY- SLOPE I/4" PER FT. MIN.

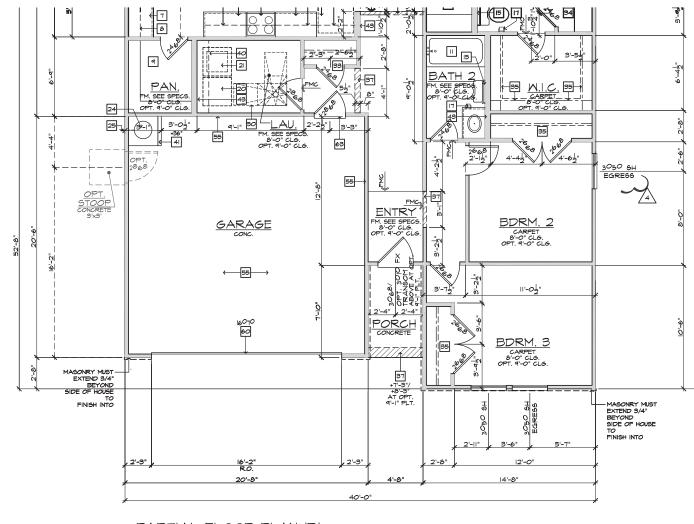




#	SLAB PLAN NOTES
NO	TE: NOT ALL KEY NOTES APPLY.
Ι.	CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.
2.	CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER 1'-0" MIN. TOWARD DOOR OPENING.
З.	CONCRETE FOUNDATION PER STRUCTURAL.
4.	CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN.
5.	CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
б.	PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.
7.	5" BRICK LEDGE FOR MASONRY VENEER.
в.	3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
9.	REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
10.	VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.
н.	4" MIN. 8 1/4" MAX. TO HARD SURFACE.
12.	A/C PAD. VERIFY LOCATION.
13.	36" WIDE WALKWAY- SLOPE I/4" PER FT. MIN.



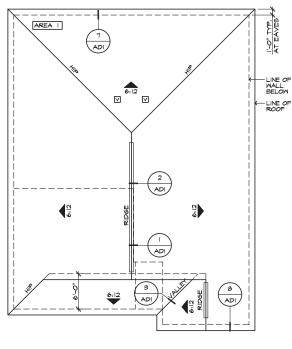
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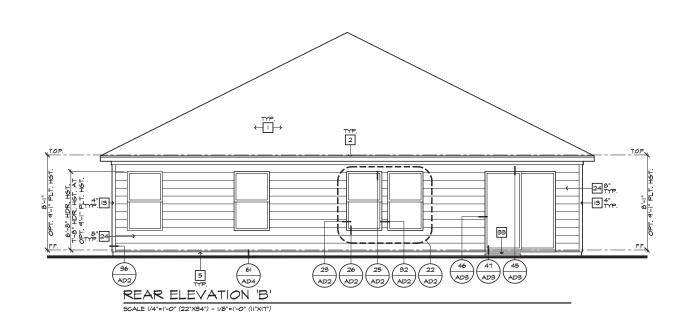
 PARTIAL FLOOR PLAN 'B'

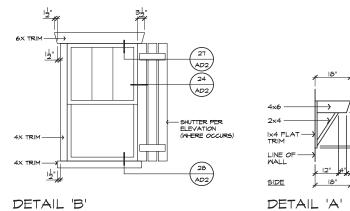
 SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

* PARTIAL PLAN NOTES 200 NG-R	
31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5	
37. FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT	
38. NOT USED 39. LINE OF CEILING BREAK	
40. INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT.	HOME
 LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 12/AD4 2x6 WALL 	
43. 2x6 WALL 44. 2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	. ®
45. DOUBLE 2x4 WALL	
46. LINE OF FLOOR ABOVE 47. LINE OF FLOOR BELOW	
48. EXTERIOR RAIL	
55. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN ½" GYPSUM BOARD APPLIED TO THE GARAGE SIDE	
56. SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING, PROVIDE (I) LAYER OF %" TYPE "X" GYPSIM BOARD, NALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING, PROVIDE (I) LAYER OF ½" GYPSIM BOARD	
57. EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT 60. SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION	
	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
	ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56 DIVISION MGR.: DCS REVISIONS: 03/26/19
	ADD CRAWL SPACE NCI8024NCP - 07/24/18 - CTD
	FLOORING BREAK REV NCI9040NCP · 08/28/18 · KJL
	= Δ DIVISION REVISIONS NCIEDAINCP- 9/27/18 CTD
	2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD
	-
	FOR INTERNAL USE ONLY REVIEWED BY:
	L 2 3 3
	• <u>•</u>
	140.1582
	SHEET: 3.B1
	SPEC. LEVEL 1
	RALEIGH-DURHAM
NOTE. REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE	40' SERIES



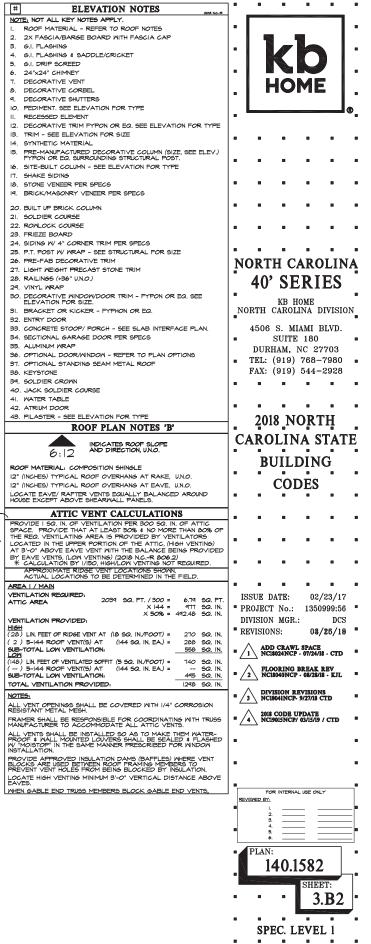
ROOF PLAN 'B' SCALE 1/8"=1'-0" (22"X34") - 1/16"=1'-0" (11"X17")



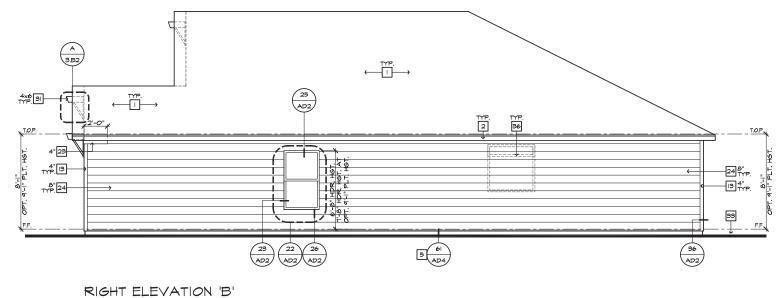


SCALE: N.T.S.

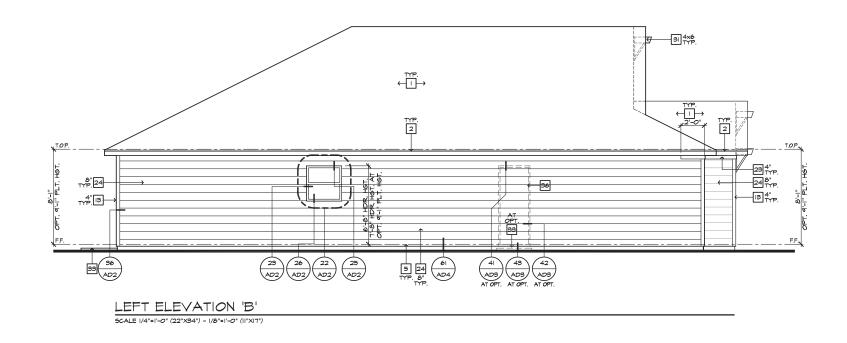




RALEIGH-DURHAM 40' SERIES

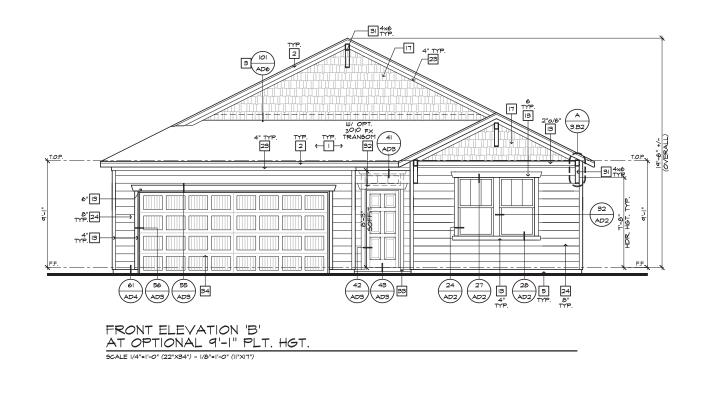


SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

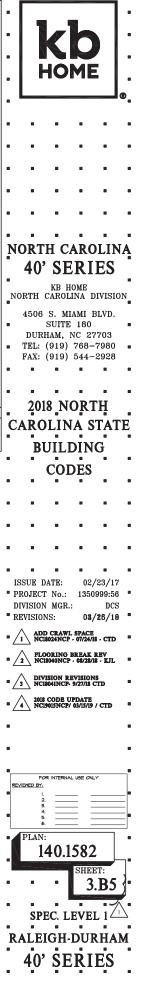


#	ELEVATION NOTES	_				
NOT	TE: NOT ALL KEY NOTES APPLY.	1				
ι.	ROOF MATERIAL - REFER TO ROOF NOTES	8				
2.	2X FASCIA/BARGE BOARD WITH FASCIA CAP			2	\sim	
З.	G.I. FLASHING					
4.	G.I. FLASHING & SADDLE/CRICKET			\leq		
5.	G.I. DRIP SCREED					a I
б.	24"x24" CHIMNEY				\sim	
1.	DECORATIVE VENT			HO		
э.	DECORATIVE CORBEL					5
1.	DECORATIVE SHUTTERS					
0.	PEDIMENT. SEE ELEVATION FOR TYPE					
I.	RECESSED ELEMENT					
	DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE					
З.	TRIM - SEE ELEVATION FOR SIZE				8	
4.	SYNTHETIC MATERIAL	-				
	PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.					
	SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE					
	SHAKE SIDING	_	_	_	_	_
	STONE VENEER PER SPECS					
•	BRICK/MASONRY VENEER PER SPECS					
	BUILT UP BRICK COLUMN		•			
	SOLDIER COURSE					
	ROWLOCK COURSE					
	FRIEZE BOARD					
	SIDING W/ 4" CORNER TRIM PER SPECS					
	P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE	<u> </u>		-	-	
	PRE-FAB DECORATIVE TRIM	N	IOR 1	гн с	'AR (OLIN
	LIGHT WEIGHT PRECAST STONE TRIM	6				
	RAILINGS (+36" U.N.O.)		- 40	' SI	HR I	IES.
	VINYL WRAP		τv	01		
	DECORATIVE WINDOWDOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.	.	ODTI		HOME	DIMOLO
	BRACKET OR KICKER - FYPHON OR EQ.		ORTH	CARO	LINA	DIVISIO
	ENTRY DOOR	1	4500			DIMD
	CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.		4506	5 S. M		
	SECTIONAL GARAGE DOOR PER SPECS			SUIT	E 180	
			DUF	RHAM,	NC 2	7703
	OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS		TEL	(919)	768	-7980
	OPTIONAL STANDING SEAM METAL ROOF	-		(919		
	KEYSTONE		FAA:	(919	, 544	-2920
	SOLDIER CROWN			8		8
	JACK SOLDIER COURSE					
	WATER TABLE					
		<u> </u>				
 ;В.	PILASTER - SEE ELEVATION FOR TYPE]	20	18 N	INR'	гн

kb HOME . . 8 RTH CAROLINA **40' SERIES** KB HOME TH CAROLINA DIVISION 506 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 EL: (919) 768-7980 🔹 AX: (919) 544-2928 2018 NORTH CAROLINA STATE BUILDING CODES 83 . . . 2 ISSUE DATE: 02/23/17 * PROJECT No.: 1350999:56 * DIVISION MGR .: DCS 03/26/19 REVISIONS: ADD CRAWL SPACE NCI8024NCP · 07/24/18 · CTD S 2 FLOORING BREAK REV NCI9040NCP - 05/25/15 - KIL S DIVISION REVISIONS NCI804INCP- 9/27/18 CTD a A 2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD FOR INTERNAL USE ONLY REVIEWED BY: \equiv PLAN: 140.1582 SHEET: 3.**B**3 8 8 spec. level 1 raleigh-durham 40' SERIES



#	ELEVATION NOTES		
NOT	E. NOT ALL KEY NOTES APPLY.		
I	ROOF MATERIAL - REFER TO ROOF NOTES		
2.	2X FASCIA/BARGE BOARD WITH FASCIA CAP		
з.	G.I. FLASHING		
4.	G.I. FLASHING & SADDLE/CRICKET		
5.	G.I. DRIP SCREED		
6.	24"x24" CHIMNEY		
7.	DECORATIVE VENT		
8.	DECORATIVE CORBEL		
٩.	DECORATIVE SHUTTERS		
10.	PEDIMENT, SEE ELEVATION FOR TYPE		
П.	RECESSED ELEMENT		
12.	DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE		
13.	TRIM - SEE ELEVATION FOR SIZE		
14.	SYNTHETIC MATERIAL		
15.	PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.		
16.	SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE		
17.	SHAKE SIDING		
18.	STONE VENEER PER SPECS		
19.	BRICK/MASONRY VENEER PER SPECS		
	BUILT UP BRICK COLUMN		
	SOLDIER COURSE		
	ROWLOCK COURSE		
	FRIEZE BOARD		
	SIDING W/ 4" CORNER TRIM PER SPECS		
	P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE		
	PRE-FAB DECORATIVE TRIM		
	LIGHT WEIGHT PRECAST STONE TRIM		
	RAILINGS (+36" U.N.O.)		
	VINYL WRAP		
	DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.		
31.			
	ENTRY DOOR		
	CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.		
	SECTIONAL GARAGE DOOR PER SPECS		
	ALUMINUM WRAP		
	OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS		
	OPTIONAL STANDING SEAM METAL ROOF		
	KEYSTONE		
	SOLDIER CROWN		
	JACK SOLDIER COURSE		
	WATER TABLE		
	ATRIUM DOOR		
43.	PILASTER - SEE ELEVATION FOR TYPE		
	9-1" PLATE OPTION		
NOTE: WINDOM SIZES WILL INCREASE BY I' AT 9'-1" PLATE OPTIONS. HEADER HEIGHTS FOR ALL WINDOWS WILL BE 7'-8' AT 9'-1" PLATE OPTIONS.			

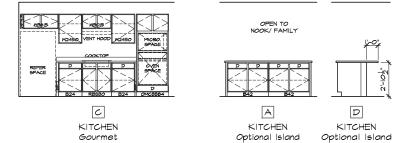


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SCALE: 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

OPTIONAL INTERIOR ELEVATIONS

KITCHEN CABINETS



LAUNDRY AND MISCELLANEOUS CABINETS

D	
LAUNDRY	
Opt. Upper	
Cabinets	

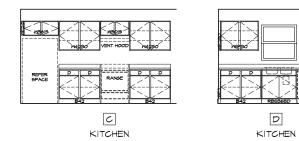
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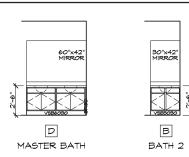


FAMILY Fireplace

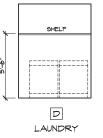
KITCHEN CABINETS



BATH CABINETS

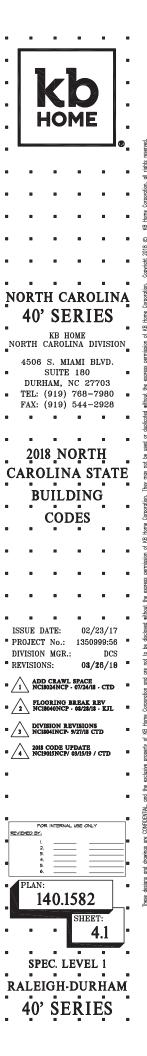


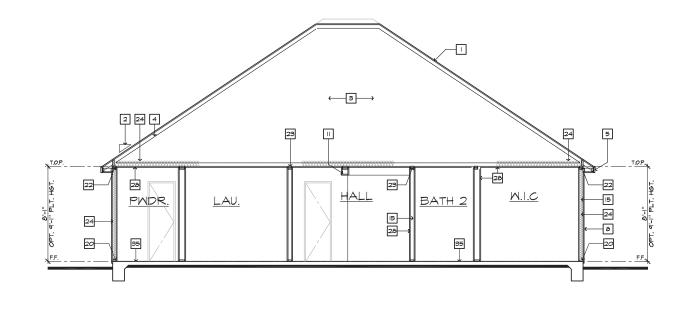
LAUNDRY AND MISCELLANEOUS CABINETS



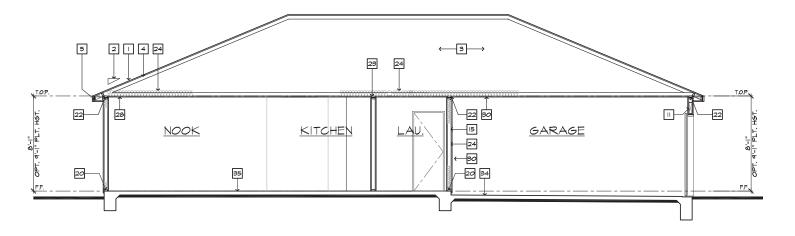
STANDARD INTERIOR ELEVATIONS

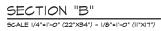
SCALE: 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")





<u>SECTION</u> "A" SCALE 1/4*=1'-0" (22*X34*) - 1/8*=1'-0" (11*X17*)



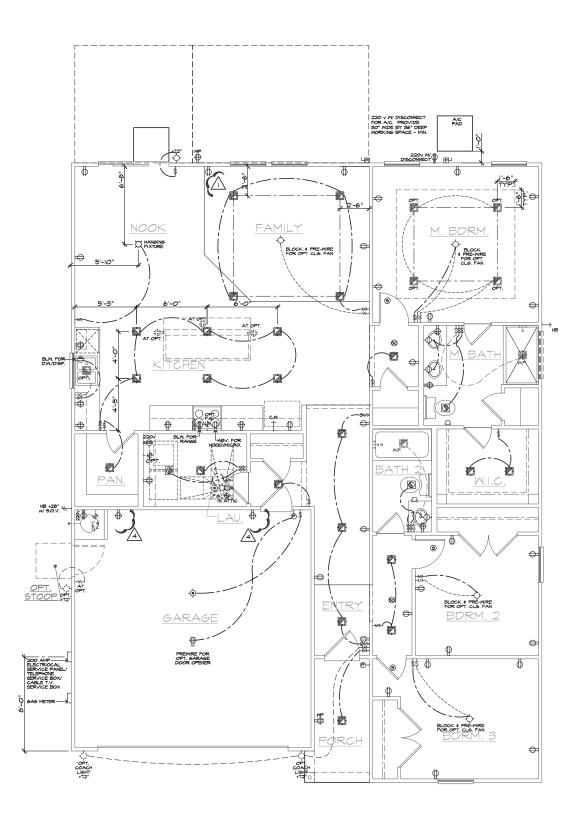


AT SLAB-ON-GRADE

 21. STAK, RECKS FAR, RESK FER FLAR: FMIN, ID TREAD 8 MAX, TSAF, RIGER 20. INTERICR FINISH: - MIN, I/2' GYP, ED, & WALLS & SAG RESISTANT CR 5/6' DRYNALL & CEILING 21. MIN, I/2' GYP, ED, ON CEILING & WALLS & USEABLE SPACE UNDER STARS. 23. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT I/2' GYP, ED, & GARAGE SIDE WALLS & 5/6' UNDER LIVING AREA UNA. 24. INTERICR SHELF - MIN, I/2' GYP, ED, OVER 3/6' PLY MD. 25. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 1/4' PER FT. MIN. 26. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2' MIN. 27. LINE OF OPTIONAL TRAY CEILING/ STRUCTURAL - SLOPE 2' MIN. 28. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2' MIN. 29. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2' MIN. 20. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2' MIN. 21. LINE OF OPTIONAL COVERED PATIO 23. LINE OF OPTIONAL COVERED PATIO 24. WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING SEMELY IN A SINGLE-FAMILY DYELLING, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT IEXCEED I/OOS SUARE FEET. TORAFTSTOPS SHALL BUNTLE SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT IEXCEED I/OOS SUARE FEET. TORAFTSTOPPS HALL BUT INTER SINGLE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 	
 PRE-MANUFACTURED WOOD ROOF TRUSS SYSTEM - SEE STRUCTURED INTERIOR FER STRUCTURAL. 2x FAGCIABARGE BOARD CONT. SOFFITED EAVE WY VENTING 5. SCHERGEN ROOF TO WALL EXTERIOR FINISH FER STRUCTURAL. FLOOR FRAMING FER STRUCTURAL. DROPPED BEAM FER STRUCTURAL. DROPPED BEAM FER STRUCTURAL. 2x 65 STUD WALL 2x 70 PLATE © STRUCTURAL MALLS 3x 70 PLATE © STUD STUD STUD STUD STUD WALL 3x 60 STUD WALL 3x 60 STUD WALL 3x 60 STUD WALL 3x 60 STUD WALL 4x 60 STUD WALL 4x 70 PLATE © STRUCTURAL CLUTONS 4x 60 STUD STATUS STRUCTURAL CLUTONS 4x 60 STUD STATUS STRUCTURAL CLUTONS 5x 67 STUD STATUS STRUCTURAL CLUTONS 5x 67 STUD STATUS STRUCTURAL CLUTONS 5x 67 STUD STRUCTURAL CLUTONS STRUCTURAL CLUTONS 5x 67 STUD STATUS STRUCTURAL CLUTONS 5x 67 STUD STATUS STR	
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 CONT. SOFFITED EAVE WY VENTING G.I. FLASHING - ROOT TO MALL EXTERIOR FINISH PER SELEVATIONS FLOOR FRAMING PER STRUCTURAL FLOB FEASTING PER STRUCTURAL FLUBH BEAM PER STRUCTURAL FLUBH BEAM PER STRUCTURAL DROPPED BEAM PER STRUCTURAL DROPPED BEAM PER STRUCTURAL DROPPED BEAM PER STRUCTURAL DAS STUD WALL 2x6 STURATE & EXTERIOR & BEARING WALLS 3x6 STURE TREATED SILL PLATE 2x7 RESISTANCE STUD SILL PLATE 2x6 STUD WALL SEE PLAN FOR HEIGHT 3x6 TIREADS AND RISERS PER PLAN - MIN. I/O' TREAD & MALLS & SAS RESISTANC OS 50° DETYRALL & CELLING 3x6 ARAGE SHALL SEE SCHARATED FROM THE RESIDENCE AND RISERS PER PLAN MIN. I/O' TREAD & MALLS & SAS RESISTANCE SAS RESISTANCE SIZE OF ROOT SHALLS & SAS RESISTANCE SAS RESISTANCE SIZE OF ROOT SHALLS & SAS RESISTED AND RISERS PER STRUCTURAL - SLOPE 2' MIN. 3x6 CONCRETE FOANDATION PER STRUCTURAL - SLOPE 2' MIN. 3x6 CONCRETE FOANDATION PER STRUCTURAL - SLOPE 2' MIN. 3x6 CONCRETE FOANDATION PER STRUCTURAL - SLOPE 2' MIN. 3x6 CONCRETE FOANDATI TRAY CELLING STRUCTURAL - SLOPE 2' MIN. 3x6 CONCRETE FOANDATI TRAY CELLING STRUCTURAL - SLOPE ALL DIVIDE THE CONCRETE SOFFIT MATERIAL - REFER TO RELEVATIONS. 3x8 STRUCTURAL - SAREE SADE PER STRUCTURAL -	RVI.
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 7. 2x6 BALLOON FRAMED WALL PER STRUCTURAL 9. 2x6 REPESS = 16' C.G. 2x SCRPEESSURE TREATED SILL PLATE 2x SCRPEESURE TREATED SILL PLATE 2x STOP PLATE = EXTERIOR & BEARING WALLS 3. X TOP PLATE = EXTERIOR & BEARING WALLS 3. X TOP PLATE = EXTERIOR & DON-BEARING WALLS 3. KOVER 2x TOP PLATE = INTERIOR & DON-BEARING WALLS 3. KOVER 2x TOP PLATE = EXTERIOR & BEARING WALLS 3. KOVER 2x TOP PLATE = EXTERIOR & BEARING WALLS 4. INSULATION MATERIAL PER ENERGY CALCULATIONS 3. MAGENTION MATERIAL PER ENERGY CALCULATIONS 3. MATERIOR FINISH - MIN. /2' GYP. D. • WALLS & SAG RESISTANT OR 56' DEYMALL = 0CELING 3. MATERIAL TOR SIGERS PER PLAN MIN. IO' TREAD 4. MARKING SKIELS OF TROAT THE RESIDENCE AND THE ATTICK ORF SIDE TO LESS THAT 12'' GYP. D. • © GARAGE 3. MATERIAL TO UNDERSIDE OF ROOF SHEATHING 3. INTERIOR SHELF - MIN. /2'' GYP. D. O. VER 36'' PLY MD. 3. CONCRETE PATIO/ FORCH SLAB PER STRUCTURAL - SLOPE 2'' MIN. 3. CONCRETE PATIO/ FORCH SLAB PER STRUCTURAL - SLOPE 2'' MIN. 3. CONCRETE PATIO/ FORCH SLAB PER STRUCTURAL - SLOPE 2'' MIN. 3. CONCRETE PATIO/ FORCH SUBAR TRUCTURAL - SLOPE 2'' MIN. 3. CONCRETE PATIO/ FORCH STRUCTURAL - SLOPE 2'' MIN. 3. CONCRETE PATIO/ FORCH STRUCTURAL - SLOPE 2'' MIN. 3. CONCRETE PATIO/ FORCH STRUCTURAL - SLOPE 2'' MIN. 3. CONCRETE PATIO/ FORCH STRUCTURAL - SLOPE 2'' MIN. 4. SUCK WALL 4. JS''' TIPE' FOR TYMALL © GARAGE CELING 5. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 6. BLOCK WALL 1. SINGLE-FAMILY DWELLING, DRAFT STOPS SHALL DE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEPTION SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. INTERIOR SOFFIT MATERIAL - REFER TOR SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 	
 6. DBL. 2x4 WALL PER PLAN 9. 2x CRIPPLES # 16' O.C. 2. 2x PRESUME TREATED SILL PLATE 2. 3x SOLE PLATE 2. DBL. 2x TOP PLATE # EXTERIOR # DEARING WALLS 2. IN COMER 2x TOP PLATE # INTERIOR # NON-DEARING WALLS 2. IN NOLATION MATERIAL PER ENERGY CALCULATIONS 25. MIN. 30' HIGH GUARD - SEE PLAN FOR HEIGHT 26. LOW WALL - SEE PLAN FOR HEIGHT 27. STAIR TREADS AND RISERS PER PLAN MIN. 10' TREAD # MAX. T 3/4' RISER 28. INTERIOR FINSH MIN. 1/2' GYP. BD. # WALLS # SAG RESISTANT OR 36' DRYNALL # CEILING 29. MIN. 12' GYP. BD. ON CEILING # MALLS # USEABLE SPACE UNDER STARS. 20. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2' GYP. BD. * GARAGE SIDE WALLS # SUSEABLE SPACE 20. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2' GYP. BD. * GARAGE SIDE WALLS # SUSEABLE SPACE INDORER STARS. 21. INTERIOR SHELF - MIN. 1/2' GYP. BD. * D OVER 370' PLY ND. 22. ONCRETE FORDATION PER STRUCTURAL - SLOPE 2' MIN. 23. CONCRETE FORDATION PER STRUCTURAL - SLOPE 2' MIN. 24. CONCRETE FORDATION PER STRUCTURAL - SLOPE 2' MIN. 25. CONCRETE FORDATION PER STRUCTURAL - SLOPE 2' MIN. 26. DEOCK MALL 28. DETEION SOFFIT MATERIAL - REFER TO ELEVATIONS. 29. BLOCK MALL 20. SPECHE - MIN MATERIAL - REFER TORS SHALL D' 10' DE THE CONCEALED SPACE DOES NOT EXCEED LOOS SUART FET: DREATSTOPPING SHALL D' 10' DE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 21. STRUCTURAL SABLE SPACE ABOVE AND BELOWITHE SINGLE SHALLED TO SHALL D' 10' DE THE CONCEALED SPACE TOPS SHALL D' 10' DE THE CONCEALED SPACE TOPS SHALL D' 10' DE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 	
22. 2x PRESSURE TREATED SILL PLATE 21. 2x SOLE PLATE 22. DPL. 3x TOP PLATE © EXTERIOR & BEARING MALLS 23. IX OVER 2x TOP PLATE © INTERIOR & NON-BEARING MALLS 24. INSULATION MATERIAL PER ENERGY CALCULATIONS 25. MIN. 36' HIGH GUARD - SEE PLAN FOR HEIGHT 21. DAY MALL - SEE PLAN FOR HEIGHT 21. STAIR TREADS AND RIGERS PER PLAN MIN. 10' TREAD 22. MITERIOR FINISH MIN. 12' GYP. DD. © WALLS & SAG RESISTANT OR 56' DRIVALL © CELING 24. MALLS 4 56' NOTE SILTINIS AREA UNO. 25. ORD NALLS 4 56' NOTE SILTINIS AREA UNO. 26. MATERIAL DE SEPARATED FROM THE RESIDENCE AND 175 ATTIC AREA BY NOT LESS THAT 12' GYP. DD. © GARAGE 30. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND 150 ATLS AREA BY NOT LESS THAT 12' GYP. DD. © GARAGE 31. INTERIOR SHELF - MIN. 12' GYP. DD. OYER 36' PLY MD. 32. CONCRETE PATIO/ FORCH SLAB PER STRUCTURAL - 32. INTERIOR SHELF - MIN. 12' GYP. DD. OYER 36' PLY MD. 33. CONCRETE FOADATION PER STRUCTURAL 4. LINE OF OPTIONAL TRAY CELLING STRUCTURAL 4. SON TYPE AT FINAL - REFER TO ELEVATIONS. 30. PROFILE OF OPTIONAL COVERED PATIO 31. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 32. MIEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CELLING ASSEMBLY IN A 31. SINGLE-FAILLS, DRAFT FETT. DRAFTSTOPPING SHALL DIVIDE 14. CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 4. MIENT THE REFE IS USABLE SPACE INTO APPROXIMATELY EQUAL AREAS. 4. MIENT THERE IS USABLE SPACE INTO APPROXIMATELY EQUAL AREAS. 4. MIENT MERE IS USABLE SPACE INTO APPROXIMATELY EQUAL AREAS. 4. MIENT MERE IS USABLE SPACE INTO APPROXIMATELY EQUAL AREAS.	
 21. 2: SOLE PLATE 22. DBL. 2: XTOP PLATE # EXTERIOR # DALLS 23. K. OVER 2: XTOP PLATE # INTERIOR # NON-BEARING MALLS 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. 10" TREAD # NAX. T 3/4" RISER 29. INTERIOR TOP, BD. ON CILING # MALLS # USEABLE SPACE UNDER STAIRS. 20. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. • GARAGE SIDE VALLS # USEABLE SPACE UNDER STAIRS. 20. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. • GARAGE SIDE VALLS # USEABLE SPACE UNDER LIVINGER STRUCTURAL - SLOPE 1/ MIN. 21. INTERIOR SHELF - MIN. 1/2" GYP. BD. OVER 3/6" PLY ND. 22. INTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 23. LINE OF OPTIONAL COLLED FATIO STRUCTURAL - SLOPE 2" MIN. 24. CONCRETE FORDATION PER STRUCTURAL - SLOPE 2" MIN. 25. CHORGE SOFFIT MATERIAL - REFER TO ELEVATIONS. 26. JINE OF OPTIONAL VOLUME CELLING 27. PLENCH SOFFIT MATERIAL - REFER TO ELEVATIONS. 28. DROCILE OF OPTIONAL VOLUME CELLING 29. PROFILE OF OPTIONAL VOLUME CELLING 29. PROFILE OF OPTIONAL COLCED PATIO 29. EXTERIOR SOFFIT MATERIAL - REFER TO RELEVATIONS. 29. DROCK MALL 41. SOLUME FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE DOES NOT EXCEED LOOS SOURCE TETET. DRAFTSTOPPING SHALL LIVIDE 20. STAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED LOOS SOURCE TETET. DRAFTSTOPPING SHALL DIVIDE 31. STATEMER STRUCTURAL PROVINATELY EQUAL AREAS. 	
 22. DBL, 2x TOP PLATE • EXTERIOR # BEARING MALLS 23. IK OVER 2x TOP PLATE • INTERIOR # DEARING MALLS 24. INSULATION MATERIAL PER ENERGY CALCULATIONS 25. MIN. 50' HOH GUARD - SEE PLAN FOR HEIGHT 26. LOW WALL - SEE PLAN FOR HEIGHT 27. STAIR TREADS AND RIGERS PER PLAN MIN. IO' TREAD # MAXL 5 354' RIGER 28. MITRIOR FINISH MIN. 1/2' GYP. DD. • WALLS # SAG RESISTANT OR 5/0' DEVALL • CELING 29. MITRIOR FINISH MIN. 1/2' GYP. DD. • WALLS # SAG RESISTANT OR 5/0' DEVALL • CELING 20. MATERIAL TO KAPEA BY NOT LESS THAT 1/2' GYP. DD. • 6 GARAGE SIDE WALLS # 5/0' WDER LIVING AREA UNO. 20. MATERIAL TO WDERSIDE OF ROOT SHEATHING 21. INTERIOR SHELF - MIN. 1/2' GYP. BD. OVER 3/0' PLY WD. 23. CONCRETE FORDATION PER STRUCTURAL - SLOPE 2' MIN. 24. CONCRETE FORDATION PER STRUCTURAL - SLOPE 2' MIN. 25. CONCRETE FORDATION PER STRUCTURAL - SLOPE 2' MIN. 26. CONCRETE FORDATION PER STRUCTURAL. 27. LINE OF OPTIONAL TRAY CELLING/ STEP CELLING 28. INTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 29. JOCK WALL 41. 5/0' TTFE-X DRYNALL & GARAGE CELLING 20. THAT THE AREA OF THE CONCEALED PATIO 21. CONCEALED SPACE OF A FLOOR-CELLING ASSEMBLY IN A SINGLE-FAMILY DWELTER. TITO OF SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED PACE DORES NOT EXCEED LOOS SUARE FETT. DREATSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 15. STATURE AREA OF THE CONCEALED SPACE DORE NOT EXCEED LOOS SUARE FETT. DREATSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 	
MALLS 4. 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 RIGHS PER PLAN - MIN. IO" TREAD 28. MAX. T 3/4" RISERS 20. INTERIOR FINISH MIN. 1/2" GYP. ED. e WALLS & SAG RESISTANT OR 5/6" DRYWALL & CEILINS 20. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND 20. GONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - 20. GONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - 20. CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL 36. CONCRETE FORMAL TRAY CEILINS 37. LINE OF OPTIONAL TRAY CEILINS 38. CONCRETE FORMAL TRAY CEILINS 39. ENTERIOR SOFTIT MATERIAL - REFER TO ELEVATIONS. 30. 6° TUPE-X DRYWALL & GARAGE CEILINS 39. CONCRETE FORMAL RESTRUCTURAL 30. CONCRETE FORMAL FRACE STRUCTURAL 30. LINE OF OPTIONAL COVERED PATIO 39. EXTERIOR SOFTIT MATERIAL - REFER TO ELEVATIONS. 40. 9° DUCK MALL 41. 50° TUPE-X DRYWALL & GARAGE CEILINS 42. WHEN THERE IS USABLE SPACE ABOVE AND BELION THE 43. CONCRETE FORMAL & GARAGE CEILINS 44. MIN THERE IS USABLE SPACE ABOVE AND BELION THE 45. CONCREALED SPACE INTO APPROXIMATELY EQUAL AREAS. 45. INTERCOR SOFTIM THE CANCELED SAGE BELION THE 45. CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 46. INTERCOREALED SPACE INTO APPROXIMATELY EQUAL AREAS. 47. MEN THERE IS USABLE SPACE INTO APPROXIMATELY EQUAL AREAS. 47. INTERCOREALED SPACE INTO APPROXIMATELY EQUAL AREAS. 48. INTERCOREALED SPACE INTO APPROXIMATELY EQUAL AREAS. 49. INTERCOREALED SPACE INTO APPROXIMATELY EQUAL AREAS.	
24. INSULATION MATERIAL PER ENERGY CALCULATIONS 25. MIN. 50° HIGH GUARD - SEE PLAN FOR HEIGHT 26. LOW WALL - SEE PLAN FOR HEIGHT 27. STAIR TREADS AND RIGERS PER PLAN MIN. IO' TREAD 28. MITERIOR FINISH MIN. //2' GYP. BD. @ WALLS & SAG RESISTANT OR 5% ⁰ INDER ALLD & GILINS 28. MITERIOR FINISH MIN. //2' GYP. BD. @ WALLS & SAG 29. MATERIAL DE SEPARATED FROM THE RESIDENCE AND 17. ATTIC AREA BY NOT LESS THAT 1/2' GYP. BD. @ GARAGE 30. GARAGE SMALL BE SEPARATED FROM THE RESIDENCE AND 31. MATERIAL TO UNDERSIDE OF ROOF SHEATHING 32. INTERIOR SHELF - MIN. 1/2' GYP. BD. @ GARAGE 33. INTERIOR SHELF - MIN. 1/2' GYP. BD. @ GARAGE 34. INTERIOR SHELF - MIN. 1/2' GYP. BD. @ GARAGE 35. OF ORTICAL VALUERS SILCTURAL 35. CONCRETE FATIO/ FORCH SLAB FER STRUCTURAL - SLOPE 2' MIN. 36. CONCRETE FONDATION PER STRUCTURAL 37. LINE OF OPTICNAL TRAY CELLING/ STEP CELLING 37. LINE OF OPTICNAL VALUES CELLING 37. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 38. PROFILE OF OPTICNAL COVERED PATIO 39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 30. SONCRETE FATIOL COVERED PATIO 39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 40. SINGLE-FAMILY DIRELING, DRAFT STOPPS SHALL BE INSTALLED 50. THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEPT DOO SQUARE FEET. DRAFTSTOPPIS SHALL DE INSTALLED 50. THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEPT DOO SQUARE FEET. DRAFTSTOPPIS SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 10. SINGLE-FAMILY DIRELFET. DRAFTSTOPPISON SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 11. SINGLE-FAMILY DIRELFET. DRAFTSTOPPISON SHALL DIVIDE 11. REGINT OF SPACE INTO APPROXIMATELY EQUAL AREAS.	
 35. MIN. 50" HIGH GUARD - SEE PLAN FOR HEIGHT 26. LOW WALL - SEE PLAN FOR HEIGHT 27. STAIR TREADS AND RISERS PER PLAN - MIN. 10" TREAD # MAX, T 5/4" RISER 28. INTERICA STREAD RISERS PER PLAN - MIN. 10" TREAD # MAX, T 5/4" RISER 29. INTERICA STREAD RISERS PER PLAN - MIN. 10" TREAD # MIN. 1/2" GYP. BD. ON CEILING # MALLS # USEABLE SPACE UNDER STAIRS. 20. 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 UNA. 30. 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 STRE CEILING 31. UNTERICS SHELF - MIN. 1/2" GYP. BD. OVER 3/8" PLY ND. 32. CONCRETE FOADDATION PER STRUCTURAL - SLOPE 2" MIN. 34. CONCRETE FOADDATION PER STRUCTURAL - SLOPE 2" MIN. 35. CONCRETE FOADDATION PER STRUCTURAL. 36. LING OF OPTIONAL VOLUME CEILING 39. EXTERIOR SOFFIT MATT CEILING STRE CEILING 31. LINE OF OPTIONAL VOLUME CEILING 34. EXTERIOR SOFFIT MATTERIAL - REFER TO ELEVATIONS. 35. BLOCK MALL 41. SOUCHERS OFFIT MATTERIAL - REFER TO RELOVINT THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMELY IN A INGLESS OFFIT MATTERIAL - REFER TO SHALL DIVIDE THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMELY IN A INGLESS OFFIT MATTERIAL - REFER TO RELOVINT THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS INGLESS OFFIT MATTERIAL - REFER TOR SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS 	
 21. STAIR TEADS AND RIGERS PER PLAN: - MIN. 10" TREAD I MAX. 134' RIGER 22. INTERIOR FINISH MIN. 1/2" (9'P. BD. e WALLS & SAG RESISTANT OR 5/8' DRYMALL & CEILING 23. MIN. 1/2" OYP. BD. ON CEILING & MALLS & USEABLE SPACE UNDER STAIRS. 24. MIN. 1/2" OYP. BD. ON CEILING & MALLS & USEABLE SPACE UNDER STAIRS. 25. ARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" OYP. BD. • 6 ARAGE SIDE WALLS & 5/8' UNDER LIVING REFA UNA. 24. CONCRETE PATO/ FORCH SLAB PER STRUCTURAL - SLOPE 1/4" FER FT. MIN. 25. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN. 26. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN. 27. CONCRETE ONDATION PER STRUCTURAL - SLOPE 2" MIN. 28. CONCRETE ONDATION PER STRUCTURAL SLINE OF OPTIONAL YOLME CEILING SECONCRETE ONDATION PER STRUCTURAL SCONCRETE SUBSALE SPACE OF A FLOOR-CEILING ASSEMBLY IN A SINGLE-FRAINEY DMELTING, DRAFT STOPS SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 	
 21. STARL RECOVER ALL STARLES FER FLAM: FUNCTION TREAD & MAX, TS 3/4 RESET RESISTANT OR 3/6 PRYMALL © CELLING 22. INTERIOR FINISHI MIN. 1/2" GYP. BD. © MALLS & SAG RESISTANT OR 3/6 PRYMALL © CELLING 23. MATERIA CREASE STARLED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. © GARAGE SIDE WALLS & 3/6' UNDER LIVING AREA UNO. 23. MATERIA TO UNDERSIDE OF ROOT SHEATHING 32. INTERIOR SHELF - MIN. 1/2" GYP. BD. © GARAGE SIDE WALLS & 3/6' UNDER LIVING AREA UNO. 33. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN. 34. CONCRETE FORDATION FER STRUCTURAL. 35. LINE OF OPTIONAL VOLUME CELLING 37. LINE OF OPTIONAL VOLUME CELLING 37. LINE OF OPTIONAL VOLUME CELLING 37. LINE OF OPTIONAL VOLUME CELLING 38. ENCRILE OF OPTIONAL COVERED PATIO 39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 30. SIDGEK WALL 4. J/8' TYPE-X DRYMALL © GARAGE CELLING 20. THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEPT LOOD SOLMAR FETT. DREATSTOPPING BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEPT LOOD SOLMAR FETT. DREATSTOPPING DOES NOT EXCEPT LOOD SOLMER FETT. DREATSTOPPING DOES NOT EXCEPT LOOD SOLMER FETT. DREATSTOPPING DOES NOT EXCEPT LOOD SOLMAR FETT. DREATSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 	ORTH CAROLINA
RESISTANT OR 5/2" DRYNALL © CEILING 24. MIN. /2" GYP, BD. ON CEILING 4 MALLS © UERABLE SPACE UNDER STAIRS. 10. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND 15. ATRIC AREA BY NOT LESS THAT /2" GYP, BD. © GARAGE SIDE WALLS & 5/3" UNDER LIVING AREA U.N.O. 31. MATERIAL TO UNDERSIDE OF ROOF SHEATHING 32. INTERIOR SHELF – MIN. 1/2" GYP, BD. O'VER 3/3" PLY WD. 33. CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL 53. CONCRETE FOLD/PORCH SLAB PER STRUCTURAL 54. CONCRETE FOLAD/PORCH SLAB PER STRUCTURAL 55. CONCRETE FOLADATION PER STRUCTURAL 56. LINE OF OPTIONAL TRAY CEILING 37. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 40. 8" BLOCK MALL 41. 5/3" TYPE-X DRYNALL © GARAGE CEILING 42. WHEN THERE IS USABLE SPACE ABOVE AND BELOWI THE CONCEALED SPACE OF THE CONCEALED SPACE DOES NOT EXCEED JOOD SQUARE FIET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 41. SIGNER SPACE INTO APPROXIMATELY EQUAL AREAS. 41. SIGNER SPACE INTO APPROXIMATELY EQUAL AREAS. 42. MIN THE XER AG THE CONCEALED SPACE DOES NOT EXCEED JOOD SQUARE FIET. DRAFTSTOPPING SHALL DIVIDE 43. STRUCTURE ALL ON SPACE INTO APPROXIMATELY EQUAL AREAS. 44. SIGNER SPACE INTO APPROXIMATELY EQUAL AREAS. 44. SIGNER SPACE INTO APPROXIMATELY EQUAL AREAS. 45. STRUCTURE SPACE INTO APPROXIMATELY EQUAL AREAS. 45. STRUCTURE SPACE INTO APPROXIMATELY EQUAL AREAS. 46. STRUCTURE SPACE INTO APPROXIMATELY EQUAL AREAS. 46. STRUCTURE SPACE INTO APPROXIMATELY EQUAL AREAS. 47. STRUCTURE SPACE INTO APPROXIMATELY EQUAL AREAS.	40' SERIES
24. MIN. 1/2" GYP. BD. ON CEILING & MALLS & USEABLE SPACE INDER STARS. 30. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND 173 ATTC AREA BY NOT LESS THAT 1/2" GYP. BD. & GARAGE SIDE WALLS & \$190" UNDER LIVING AREA UND. 31. MATERIAL TO UNDERSIDE OF ROOF SHEATHING 32. INTERIOR SHELF - MIN. 1/2" GYP. BD. O'AER 3/0" FLY MD. 33. CONCRETE PATIO/ FORCH SLAB FER STRUCTURAL - 51. COE (4" FER FT. MIN. 34. CONCRETE GARAGE SLAB FER STRUCTURAL - 51. COE (4" FER FT. MIN. 35. CONCRETE FOATO/ FORCH SLAB FER STRUCTURAL - 51. LINE OF OPTIONAL TRAY CEILING/ STEP CEILING 37. LINE OF OPTIONAL VOLME CEILING 37. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 40. 50" TYPE-X DRYNALL & GARAGE CEILING 41. SJØN TYPE-X DRYNALL & GARAGE CEILING 42. WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A SINGLE-FAMILY DMELTING, DRAYT STOPS SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 4. INSING INTO APPROXIMATELY EQUAL AREAS. 4. INSING INTO APPROXIMATELY EQUAL AREAS. 4. INSING INTO APPROXIMATELY EQUAL AREAS.	AN SEKIES
 NO. SARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTL AREA BY NOT LESS THAT 12" GYP. BD. & GARAGE SIDE WALLS & 5/6" UNDER LIVING AREA UND. MATERIAL TO UNDERSIDE OF ROOT SHEATHING INTERIOR SHELF - MIN. 1/2" GYP. BD. OVER 3/6" PLY WD. CONCRETE PATIO/ FORCH SLAB FER STRUCTURAL - SLOPE 1/4" FER FT. MIN. CONCRETE FORDATION PER STRUCTURAL - SLOPE 2" MIN. CONCRETE FORDATION PER STRUCTURAL - SLOPE 2" MIN. CONCRETE FORDATION PER STRUCTURAL. LINE OF OPTIONAL VOLME CELLING ST. LINE OF OPTIONAL COVERED PATIO ROFILE OF OPTIONAL COVERED PATIO SINGLE-FANILY DWELLING, DRAFT STOPS SHALL DUIVIDE THE CONCEALED SPACE OF A FLOOR-CELLING ASSEMBLY IN A SINGLE-FANILY DWELTING, DRAFT STOPS SHALL DUIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 	KB HOME
IT'S ATTIC AREA BY NOT LESS THAT UP OFP. BD. • GARAGE SIDE WALLS IS 3/6/ UNDER LIVING AREA UN.O. 31. MATERIAL TO UNDERSIDE OF ROOF SHEATHING 32. INTERIOR SHELF - MIN. 1/2' GYP. BD. OVER 3/6' PLY WD. 33. CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - SLOPE UP' HER FT. MIN. 34. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2'' MIN. 35. CONCRETE FOUNDATION PER STRUCTURAL - 36. LINE OF OPTIONAL YOLME CELLING STEP CELLING 37. LINE OF OPTIONAL VOLME CELLING STEP CELLING 38. EXTEROR SOFFIT MATERIAL - REFER TO ELEVATIONS. 40. 8' BLOCK MALL 41. 5/6'' TYPE-X DRYMALL & GARAGE 22. WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE SONCELE-FAMILY DASLE SPACE ABOVE AND BELOW THE SON THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED LOOS SOURCE FIET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. ISIS ISIS PR 1. STRUCTURAL STRUCTURAL AREASE 1. STRUCTURAL AND APPROXIMATELY EQUAL AREASE 1. STRUCTUR	RTH CAROLINA DIVISION
 MATERIAL TO UNDERSIDE OF ROOF SHEATHING INTERIOR SHELF - MIN. 1/2' GYP. BD. OVER 3/8' PLY MD. CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - SLOPE 1/4' PER PT. MIN. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN. CONCRETE GARAGE SLAB PER STRUCTURAL LINE OF OPTIONAL TRAY CELLING STEP CELLING EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 8' POPILE OF OPTIONAL COVERED PATIO EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 6' B' ELCOK MALL SO AT THE ARA OF THE CONCELLING SHALL BE INSTALLED SO THAT THE ARA OF THE CONCELLED SPACE DOES NOT EXCEED SPACE OF THE CONCELLED DES NOT EXCEED IOOD SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. SISS PR DIT RE 2' A' A'	4506 C MIANI DIVD
 12: INTERIOR SHELF - MIN. 1/2' 6'YP. BD. OVER 3/8' PLY MD. 13: CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - SLOPE 2' MIN. 34: CONCRETE FOUNDALTON PER STRUCTURAL - SLOPE 2'' MIN. 35: CONCRETE FOUNDAL TRAY CELLING STEP CELLING 36: ILINE OF OPTIONAL TRAY CELLING STEP CELLING 37: EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 38: O'' TYPE-X DRYMALL © GARAGE 39: CELLING SOFFIT MATERIAL - REFER TO ELEVATIONS. 42: WHEN THERE IS USABLE SPACE ABOVE AND BELOWI THE CONCEALED SPACE OF A FLOOR-CELLING SASEMELY IN A SINGLEFA MIN. THE CONCEALED SPACE ABOVE AND BELOWI THE EXCEED INDO SOURCE FEET ORAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 41: SINGLEFA MIN AND AND AND APPROXIMATELY EQUAL AREAS. 42: MHEN THERE IS USABLE SPACE INTO APPROXIMATELY EQUAL AREAS. 43: SINGLEFA MIN AND AND AND APPROXIMATELY EQUAL AREAS. 44: SINGLEFA MIN AND AND AND AND APPROXIMATELY EQUAL AREAS. 44: SINGLEFA MIN AND AND AND APPROXIMATELY EQUAL AREAS. 45: SINGLEFA MIN AND AND AND APPROXIMATELY EQUAL AREAS. 46: SINGLEFA MIN AND AND AND APPROXIMATELY EQUAL AREAS. 	4506 S. MIAMI BLVD. SUITE 180
34. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN. 35. CONCRETE FOUNDATION PER STRUCTURAL - SLOPE 2" MIN. 36. LINE OF OPTIONAL TRAY CELLING STEP CELLING 37. LINE OF OPTIONAL VOLUME CELLING 38. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 40. 50° TIPE-X DRYNALL © GARAGE CELLING 41. 55° TIPE-X DRYNALL © GARAGE CELLING 50 THAT THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CELLING ASSEMBLY IN A SINGLE-FAMILY DWELLING, DRAFT STOPPS SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	DURHAM, NC 27703
34. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN. 35. CONCRETE FOUNDATION PER STRUCTURAL - SLOPE 2" MIN. 36. LINE OF OPTIONAL TRAY CELLING STEP CELLING 37. LINE OF OPTIONAL VOLUME CELLING 38. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 40. 50° TIPE-X DRYNALL © GARAGE CELLING 41. 55° TIPE-X DRYNALL © GARAGE CELLING 50 THAT THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CELLING ASSEMBLY IN A SINGLE-FAMILY DWELLING, DRAFT STOPPS SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	TEL: (919) 768-7980
95. CONCRETE FOUNDATION PER STRUCTURAL 150. LINE OF OPTIONAL VOLUME CELLING STRE CELLING 37. LINE OF OPTIONAL VOLUME CELLING 38. PROFILE OF OPTIONAL COVERED PATIO 38. EXTEROR SOFFIT MATERIAL - REFER TO ELEVATIONS. 40. STRUCK WALL 41. STRUCK TOPEX DRYNALL © GARAGE CELLING 22. WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CELLING ASSEMBLY IN A SINGLEFAILTY DATERIAL - REFER TO THE CONCEALED SPACE DOES NOT EXCEDED LOOD SOURCE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. ISINGLEFAILTY DATERIAL - REFER TO RELAK AREAS. ISINGLEFAILTY DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. ISINGLEFAILTY DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS.	FAX: (919) 544-2928
A, EITE OF OPTIONAL VOLUME CELING 19. ENTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. 10. 8° BLOCK MALL 14. 5/8° TYPE-X DRYNALL © GARAGE CELING 12. MHEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CELING SHALL DE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE FEET. DRAFTSTOPPINS SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS ISS ISS ISS ISS ISS ISS ISS I	
 BA: PROFILE OF OPTIONAL COVERED PATIO BA: EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS. BO: B' BLOCK MALL BO: S' TYPE-X DEVIALL & GARAGE CELING SO THAT THE AREA OF A FLOOR-CELING SECOND THE CONCEALED SPACE OF A FLOOR-CELING SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED LOOD SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. ISS PR DIT RE 2.1 	
 62. B[*] BLOCK WALL 14. 5/8³ TYPE-X DRYWALL & GARAGE CEILING 12. WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A SINGLE-FAMILY DIVELLING, DRAFT STOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED LOOD SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15.	
44. 56° TYPE-X DRYNALL & GARAGE CELLING 22. WHEN THERE IS USABLE SPACE ABOVE AND BELOWI THE CONCEALED SPACE OF A FLOOR-CELLING SEGMELY IN A SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS.	2018 NODTU
CELING 22. WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE 22. ONCEALED SPACE OF A FLOOR-CELING ASSEMBLY IN A SINGLEFAMILY DIRELING, DRAFT STOPS SHALL BUINDE EXCEED 1000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS	2018 NORTH
CONCEALED SPACE OF A FLOOR-CELLING ASSEMBLY IN A SINGLE-FAMILY DIRELING, DRAFT STOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED (200 SQUARE FIET). DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS.	ROLINA STATE
SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEPTIODO SQUARE FEET. DRANE SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS.	
EXCEED 1000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS.	BUILDING
• • • • • • • • • • • • • • • • • • •	
$= PR$ DIV $= RE$ $= \sqrt{1}$	CODES
:	SUE DATE: 02/23/17 OJECT No.: 1350999:56 VISION MGR.: DCS VISION MGR.: 03/28/19 ADD CRAWL SPACE NC19040NCP • 07/24/18 • CTD NC19040NCP • 07/24/18 • CTD DTVISION REVISIONS NC19040NCP • 92/718 CTD 2018 CODE UPDATE NC1904SNCP • 05/15/19 / CTD
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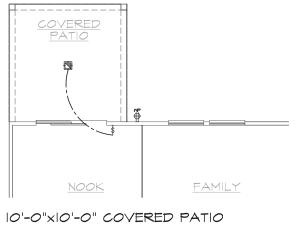
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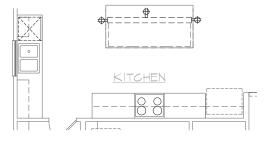
UTILITY PLAN SCALE |/4"=1'-0" (22"X34") - |/8"=1'-0" (11"X17")

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	UTILITY LEGEND	•		
÷	120 - DUDI EV. CONVENIENCE RECERTACI E	. Г		-
~	ARC FAULT(AFC) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL UNO.			
ret we cri int⊕ we	120V (TR) RECEPTACLE W/ GFI CIRCUIT W/ WATER RESISTANT HOUSING			
u⊖ eri	120V (TR) RECEPTACLE W GFI CIRCUIT			
ф		8		
Ъ	FUSED DISCONNECT		HOME I	
o	120V (AFCI & TR) RECESSED FLOOR RECEPTACLE W/ COVER			
-	1207 (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE			•
	SWITCH CONTROLLED, 1/2 HOT 220V SINGLE CONVENIENCE RECEPTACLE	-		
I⊜ 220 ∨	HEIGHT NOTED AS PER PLAN			
÷	TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. 8" ABOVE COUNTER U.N.O.			
+ 69- 8	THREE-POLE LIGHT SWITCH			
⊦69- 4	FOUR-POLE LIGHT SWITCH			
ю́-м.р.	WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING			
	WALL MOUNTED INCANDESCENT			
ю	LIGHT FIXTURE			
÷	WALL MOUNTED FLUORESCENT LIGHT FIXTURE			
-¢-	CEILING MOUNTED INCANDESCENT			
4	CEILING MOUNTED FLUORESCENT			
-@-	LIGHT FIXTURE	<u>NO</u>]	RTH CAROLIN	IA .
¤	HANGING INCANDESCENT LIGHT FIXTURE	Δ	0' SERIES	-
₩ D i	RECESSED INCANDESCENT DIRECTIONAL			
i⊈ IØi	LIGHT FIXTURE (EYE BALL) RECESSED INCANDESCENT LIGHT FIXTURE	NOP	KB HOME TH CAROLINA DIVISIO	N
⊠ Ø	LIGHTING - TRAVERSE II LED FIXTURE - PER	•		
-	SPECS RECESSED INCANDESCENT LIGHT FIXTURE		506 S. MIAMI BLVD.	
Øмр.	RECESSED INCANDESCENT LIGHT FIXTURE W/WATER RESISTANT HOUSING	• n	SUITE 180 DURHAM, NC 27703	
Ø	RECESSED FLUORESCENT LIGHT FIXTURE		EL: (919) 768-7980	8
	RECESSED EXHAUST FAN		AX: (919) 544-2928	
Ş	RECESSED EXHAUST FAN/ INCANDESCENT LIGHT COMBINATION	•		
	RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION			
D	INCANDESCENT WALL SCONCE			
ĩ	ILLUMINATED ADDRESS SIGN - VISIBLE	. 2	2018 NORTH	
	FROM STREET		ROLINA STAT	Ē
i i				
0 0	24"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)		BUILDING	
i i		8		8
			CODES	_
i i				
	12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)			
	BOX (CEILING MOUNTED)			
		8		
۲	OPTIONAL PRE-WIRED CEILING FAN AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O.			
Q	CEILING MOUNTED JUNCTION BOX	•		
нQ	WALL MOUNTED JUNCTION BOX			
000	DOOR CHIME	- 1991	IE DATE: 02/23/17	, -
ΗM	CATV RECEPTACLE		JE DAIE: 02/23/17 JECT No.: 1350999:56	-
⊢® ⊨∎	PUSH BUTTON		SION MGR.: DCS	
		REVI	ISIONS: 08/26/18) =
	SERVICE BOX HOSE BIB		ADD CRAWL SPACE	_
#нв	HOSE BIB W/ S.O.V.	" ∠1∖	NCI8024NCP · 07/24/18 · CTD	
-+ cm	WATER STUB FOR ICE MAKER	•	FLOORING BREAK REV NCI8040NCP - 08/28/18 - KJL	
9	APPROVED CEILING MOUNTED		2	
	SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED	• 🔏	DIVISION REVISIONS NCI8041NCP- 9/27/18 CTD	
& ⊦©			2018 CODE UPDATE	
+0 +∳	THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN) GAS TAP	ª ∠4∖	NC19015NCP/ 03/15/19 / CTD	8
·				
١ ۶	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQURED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET			
SM	ITCHING FOR 24" MIN. SEPERATION	•		8
ROP	ITCHING FOR 24" MIN. SEPERATION NOMS W CLG. FAN OF ELECTRICAL BOXES TIONS AS SHOWN BELOW			
LIGHT / F	AN LIGHT		FOR INTERNAL USE ONLY	
15 HO		REVIEWE	ED BY:	
			2 3	Ξſ
SECO			4	_ •
	NOTES		6	
I. MEC		• PI	LAN:	
SHOL	HANICAL, ELECTRICAL AND PLIMBING SYSTEMS ARE INN FOR INTENT ONLY. THESE SYSTEMS SHALL BE INCERED BY OTHERS. THE CONTRACTOR SHALL BE PONSIBLE FOR PROPER INSTALLATION AND		140.1582	
PLA	CEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE		SHIFET:	
	TXTURE.		• • 51	
2. PRO RECI	VIDE SMITCH, LIGHT, I2OV (AFCI & TR') DUPLEX EPTACLE, & FUEL GAS STUB OR 22OV RECEPTACLE TTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.			
		•		
	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO LOCATED AT HIGHEST POINT OF CEILING		SPEC. LEVEL 1	
4. 20 F	FOOT #4 REBAR FOR UFER GROUND AND NITIONAL COLD WATER GROUND. REFER TO SLAB RFACE PLAN FOR LOCATION.	а та 4 т		
	RFACE PLAN FOR LOCATION. AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL	KAI	LEIGH-DURHA	M
	N CHECK PERMIT REQUIRED IF LOAD EXCEED 400	ľ /	0' SERIES	-
		. 7	IN DEIVIED	-



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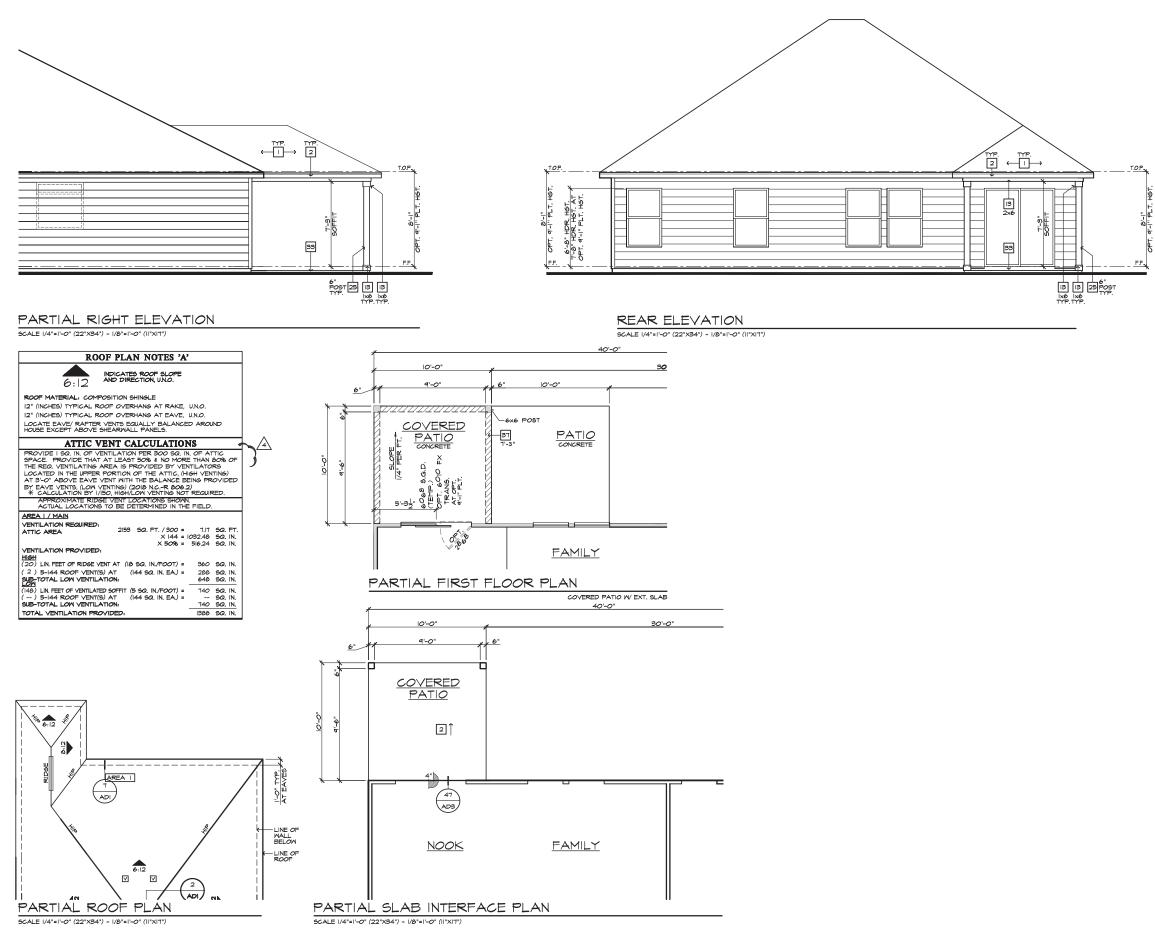


ISLAND

AT KITCHEN

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	UTILITY LEGEND	,
÷	120V DUPLEX CONVENIENCE RECEPTACLE	
	ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL U.N.O.	
r⊕ wp 6F r⊕ wp	I 120V (TR) RECEPTACLE W GFI CIRCUIT W/ WATER RESISTANT HOUSING	
⊕ 6 Fi	120V (TR) RECEPTACLE W/ GFI CIRCUIT	
÷		
P	FUSED DISCONNECT	
\odot	1207 (AFCI & TR) RECESSED FLOOR RECEPTACLE W/ COVER	
÷	120V (AFCI \$ TR) DUPLEX CONVENIENCE RECEPTACLE	
4	SWITCH CONTROLLED, 1/2 HOT	
i€ 220 v	220V SINGLE CONVENIENCE RECEPTACLE HEIGHT NOTED AS PER PLAN	
÷	TWO-POLE LIGHT SMITCH AT 42" ABV. FIN. FLR.	
⊦⇔ 9	6" ABOVE COUNTER U.N.O. THREE-POLE LIGHT SWITCH	
HOP 4	FREE-POLE LIGHT SWITCH	
	WALL MOUNTED LIGHT FIXTURE	
ŀ ()- ⋈.P .	W/ WATER RESISTANT HOUSING	
ф	WALL MOUNTED INCANDESCENT LIGHT FIXTURE	
ŀ€-	WALL MOUNTED FLUORESCENT	
	LIGHT FIXTURE	
- Ò -	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE	
-©-	CEILING MOUNTED FLUORESCENT	NORTH CAROLINA
	LIGHT FIXTURE HANGING INCANDESCENT	
¤	LIGHT FIXTURE	40' SERIES
Φ	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)	E VD HOVE
Ø	RECESSED INCANDESCENT LIGHT FIXTURE	KB HOME NORTH CAROLINA DIVISION
	LIGHTING - TRAVERSE II LED FIXTURE - PER	•
Ф м.р.	SPECS RECESSED INCANDESCENT LIGHT FIXTURE	4506 S. MIAMI BLVD. ■ SUITE 180
	W/ WATER RESISTANT HOUSING	DURHAM, NC 27703
¢	RECESSED FLUORESCENT LIGHT FIXTURE	TEL: (919) 768-7980
	RECESSED EXHAUST FAN	FAX: (919) 544-2928
Ş	RECESSED EXHAUST FAN/ INCANDESCENT LIGHT COMBINATION	
	RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION	
D	INCANDESCENT WALL SCONCE	
1	ILLUMINATED ADDRESS SIGN - VISIBLE	2018_NORTH
]	FROM STREET	CAROLINA STATE
		CAROLINA SIATE
i 🖌 🛔	24"x48" FLUORESCENT LIGHT	BUILDING
	BOX (CEILING MOUNTED)	
		CODES
¦∥¦	12"x48" FLVORESCENT LIGHT	
.¦∦!	BOX (CEILING MOUNTED)	
Ð	OPTIONAL PRE-WIRED CEILING FAN	
Q	AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O.	
нQ	CEILING MOUNTED JUNCTION BOX	
(eee)	WALL MOUNTED JUNCTION BOX	
Η	CATV RECEPTACLE	ISSUE DATE: 02/23/17
⊢®	PUSH BUTTON	PROJECT No.: 1350999:56
H	PHONE OUTLET	DIVISION MGR.: DCS
]	SERVICE BOX	REVISIONS: 03/26/19
+ нв	HOSE BIB	ADD CRAWL SPACE
⊸#нв	HOSE BIB W/ S.O.V.	
— см	WATER STUB FOR ICE MAKER	FLOORING BREAK REV NCISO40NCP - 08/28/18 - KJL
6	APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED	
6	WITH BATTERY BACK-UP AND INTERCONNECTED APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.	DIVISION REVISIONS NCI8041NCP- 9/27/18 CTD
₩ ⊢®	THERMOSTAT (VERIFY LOCATION W HVAC PLAN)	
	GAS TAP	* 4 NCI9015NCP/ 03/15/19 / CTD
ŀ Χ	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET	
GIA		
ROP	IITCHING FOR 24" MIN. SEPERATION DMS W CLG. FAN 0F ELECTRICAL BOXES TIONS AS SHONN BELOW	
LIGHT / F	AN LIGHT	FOR INTERNAL USE ONLY
1/2 HC		REVIEWED BY:
=	<u>▶▶</u> <u>* MIN.</u>	3 4
SECC	NDARY MASTER GARAGE	5 6
	NOTES	PLAN:
I. MEC SHO	HANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE NN FOR INTENT ONLY. THESE SYSTEMS SHALL BE NEERED BY OTHERS. THE CONTRACTOR SHALL BE PONSIBLE FOR PROPER INSTALLATION AND	140.1582
RESI	NEERED BY OTHERS. THE CONTRACTOR SHALL BE PONSIBLE FOR PROPER INSTALLATION AND	
PLA	CEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE "IXTURE.	SHEET:
2. PRO	VIDE SWITCH, LIGHT, I2OV (AFCI & TR) DUPLEX EPTACLE, & FUEL GAS STUB OR 22OV RECEPTACLE TTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.	5.2
3. SMO BE	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO LOCATED AT HIGHEST POINT OF CEILING	SPEC. LEVEL 1
4. 20 1	FOOT #4 REBAR FOR UFER GROUND AND	
ADD	NTIONAL COLD WATER GROUND. REFER TO SLAB RFACE PLAN FOR LOCATION.	RALEIGH-DURHAM
	AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL N CHECK PERMIT REQUIRED IF LOAD EXCEED 400	
AMP	S.	40' SERIES



IO'XIO' COVERED PATIO AT FLOOR PLAN 'A'

#	ELEVATION NOTES	
	E. NOT ALL KEY NOTES APPLY.	8
1. 2.	ROOF MATERIAL - REFER TO ROOF NOTES 2X FASCIA/BARGE BOARD WITH FASCIA CAP	
3.	G.I. FLASHING	
4.	G.I. FLASHING & SADDLE/CRICKET	' KD
5.	G.I. DRIP SCREED	
6. 7.	24"x24" CHIMNEY DECORATIVE VENT	
8.	DECORATIVE CORBEL	. HOME
٩.	DECORATIVE SHUTTERS	-
10. .	PEDIMENT. SEE ELEVATION FOR TYPE RECESSED ELEMENT	0
	DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE	_
13.	TRIM - SEE ELEVATION FOR SIZE	
	SYNTHETIC MATERIAL	
15.	PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.	
16.	SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE SHAKE SIDING	
18.	STONE VENEER PER SPECS	
19.	BRICK/MASONRY VENEER PER SPECS	
20	BUILT UP BRICK COLUMN	
	SOLDIER COURSE	
	ROWLOCK COURSE	
	FRIEZE BOARD SIDING W/ 4" CORNER TRIM PER SPECS	
	P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE	
26.	PRE-FAB DECORATIVE TRIM	NORTH CAROLINA
	RAILINGS (+36" U.N.O.) VINYL WRAP	40' SERIES
	DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE	
31	ELEVATION FOR SIZE. BRACKET OR KICKER - FYPHON OR EQ.	KB HOME NORTH CAROLINA DIVISION
	ENTRY DOOR	
	CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.	4506 S. MIAMI BLVD.
	SECTIONAL GARAGE DOOR PER SPECS ALUMINUM WRAP	SUITE 180
36.	OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS	DURHAM, NC 27703
37.	OPTIONAL STANDING SEAM METAL ROOF	■ TEL: (919) 768-7980 FAX: (010) 544-2028
	KEYSTONE SOLDIER GROWN	FAX: (919) 544-2928
	JACK SOLDIER COURSE	
41.	WATER TABLE	
42. 43.	ATRIUM DOOR PILASTER - SEE ELEVATION FOR TYPE	
#	PARTIAL PLAN NOTES	2018 NORTH
	E. NOT ALL KEY NOTES APPLY.	CAROLINA STATE
		CAROLINA SIAIL
	+36" GUARD WALL DETAIL 84/AD5 OR 86/AD5	BUILDING
	FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT	
	NOT USED	CODES
	LINE OF CEILING BREAK	
	INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT.	
	LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4	
	2x6 MALL	
	2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	
	DOUBLE 2x4 WALL	
	LINE OF FLOOR ABOVE	
	LINE OF FLOOR BELOW	
55.	THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD	ISSUE DATE: 02/23/17
		PROJECT No.: 1350999:56
20.	SEPARATION BETWEEN SECOND FLOOR AND GARAGE CELLING, PROVIDE (I) LAYER OF %" TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CELLING, PROVIDE (I) LAYER OF 12"	DIVISION MGR.: DCS
	SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF 1/2" GYPSUM BOARD	REVISIONS: 03/25/19
57.	EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT	ADD CRAWL SPACE
60.	SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION	
#	SLAB PLAN NOTES	FLOORING BREAK REV NCI3040NCP - 05/25/18 - KJL
	E. NOT ALL KEY NOTES APPLY.	
Т.	CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE 1/4" PER FT. MIN.	DIVISION REVISIONS 3 NCI804INCP- 9/27/18 CTD
2.	CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/6" PER. 1'-0" MIN. TOWARD DOOR OPENING.	
з.	CONCRETE FOUNDATION PER STRUCTURAL.	2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD
4.	CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN.	
5.	CONCRETE DRIVEWAY SLOPE 1/4" PER FT, MIN, AWAY	
6.	FROM GARAGE DOOR OPENING. PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND.	_
	VERIFY LOCATION.	- '
7. 8.	5" BRICK LEDGE FOR MASONRY VENEER. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH	
	WITH MIN. 12" EMBEDMENT INTO CONCRETE.	FOR INTERNAL USE ONLY
9.	REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.	REVIENED BY:
10.	VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.	2
11.	4" MIN. & I/4" MAX. TO HARD SURFACE.	B 5
	A/C PAD. VERIFY LOCATION. 36" WIDE WALKWAY- SLOPE I/4" PER FT. MIN.	<u> </u>
	CO TEREBRICE SECTOR FERTILIST. PIN.	PLAN:
		140.1582
1100	*	SHEET:
	EL ER TO BASIC ROOF PLAN FOR INFORMATION NOT WIN HERE	8.A1
_ энс	ER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT WIN HERE	SPEC. LEVEL 1
	EL ER TO BASIC FLOOR FLAN FOR INFORMATION NOT WIN HERE	RALEIGH-DURHAM
NO REF	<u>E.</u> ER TO BASIC <u>SLAB PLAN</u> FOR INFORMATION NOT WIN HERE	40' SERIES

STRUCTURAL PLANS FOR:

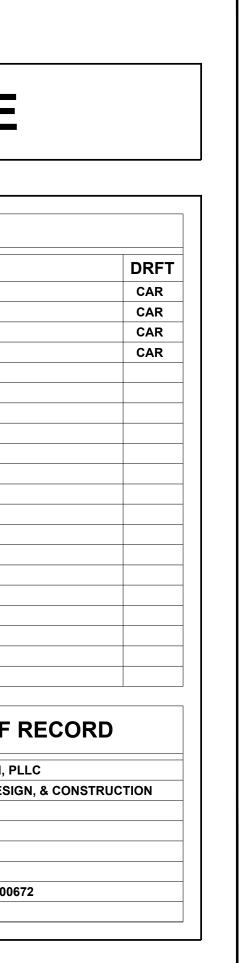


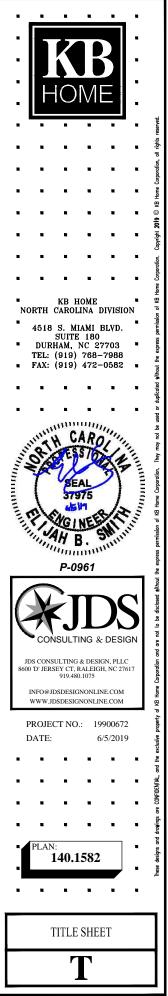
140.1582 - LH GARAGE

PLAN RELEASE / REVISIONS

REV DATE	ARCH PLAN VERSION	REVISION DESCRIPTION
05/06/2019	1582_PP2_NC19015NCP_03.12.19	INITIAL SETUP OF LAYOUT
05/06/2019	1582_PP2_NC19015NCP_03.12.19	CREATED LOT-SPECIFIC STRUCTURAL LAYOUT FROM MASTER PLAN AND EWP LAYOUT
05/09/2019	1582_PP2_NC19015NCP_03.12.19	CHANGED LOT NUMBERS FROM 64 TO 61
06/05/2019	1582_PP2_NC19015NCP_03.12.19	CHANGED REAR OPTION FROM PATIO SLAB TO COVERED PATIO

NC	DTES	CODE	ENGINEER OF
 ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JDS CONSULTING & DESIGN, 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. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS. 	 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. 	ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER: 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE	JDS CONSULTING & DESIGN, ENGINEERING, BUILDING DES CONSULTING SERVICES 8600 'D' JERSEY COURT RALEIGH, NC 27617 FIRM LIC. NO: P-0961 PROJECT REFERENCE: 19900





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 & DESIGN, PLLC IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.
- BRACED-WALL DESIGN IS BASED ON SECTION R602.10 WALL BRACING. 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.

0.000 000

SEISMIC DESIGN SHALL BE PER SECTION R301.2.2 - SEISMIC 3. 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.

AFF ABOVE FINISHED FLOOR MAX MAXII ALT ALTERNATE MECH MECH	IANICAL JFACTURER IUM FO SCALE
CANTCANTILEVERNTSNOT TCJCEILING JOISTOAOVERCLGCEILING JOISTOCON COCMUCONCRETE MASONRY UNITPTPRESCOCASED OPENINGRRISERCOLCOLUMNREFREFCONCCONCRETERFGROOFCONTINUOUSROROUGDCLOTHES DRYERRSDDCLOTHES DRYERSFDAMDOUBLESFJDOUBLE JOISTSHSHDOUBLE RAFTERSIMDRDOUBLE STUD POCKETSJSINGEAEACHDRDOUBLE STUD POCKETSJELEACH ENDSPEC'D SPECEQEQUALSQSQUAEXEXTERIORTTREMPFAUFORCED-AIR UNITTEMPTEMPFLNFOUNDATIONTHKTHICHFLRFLOOR(ING)TOCTOPFLRFLOOR(ING)TYPTYPFUGFOOTINGTYPTYP	ENTER SURE TREATED R IGERATOR ING SUPPORT COLUMN IRE FOOT (FEET) F / SHELVES THING VER AR LE JOIST POCKET IFIED IRE D ERED GLASS ((NESS) LE JOIST DF CURB / CONCRETE E RAFTER CAL
FTG FOOTING TYP TYPIC HB HOSE BIBB UNO UNLE HDR HEADER W CLOT HGR HANGER WH WATE JS JACK STUD COLUMN WWF WELD	CAL SS NOTED OTHERWISE HES WASHER ER HEATER DED WIRE FABRIC A 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

2. 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 Ev = 285 PSI E = 1.9E6 PSI

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

Fb = 2900 PSI Ev = 290 PSI E = 2.0E6 PSI

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

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

- 6. STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fv = 50 KSI
- REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, 7. 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 9. 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.
- 12. 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 EXIST.
- 2. CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318.
- 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
- 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
- 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.
 - В. 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.
- 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 SECTION R403.1.6 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
- FOOTINGS, AND GIRDERS SHALL CENTER IN THE MIDDLE THIRD OF THE PIERS
- 9. ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE
- FROM EDGE OF CONCRETE TO EDGE OF REBAR.
- 12. WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

FRAMING

- 3.
 - STRUCTURAL COMPONENTS
 - CONSTRUCTION.
- - LUMBER.

- MANUFACTURER.
- C.
- D.
- DRAWINGS

- EACH END OF FLITCH BEAM.

- EXTERIOR RIM JOIST / BOARD.
- SHALL BE MET.

- CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE
- OF FOUNDATION WALLS (SEE DETAILS).
- 10. ALL REBAR NOTED IN CONCRETE TO HAVE AT LEAST 2" COVER
- 11. FRAMING TO BE FLUSH WITH FOUNDATION WALLS.

1. 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.

NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.

SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER

5. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY, LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF

6. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.

PORCH / PATIO COLUMNS TO BE 4x4 MINIMUM PRESSURE-TREATED

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.

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.

ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.

9. 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. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS

INSTALLATION OF THE SYSTEMS SHALL BE PER

MANUFACTURER'S INSTRUCTIONS.

TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE

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.

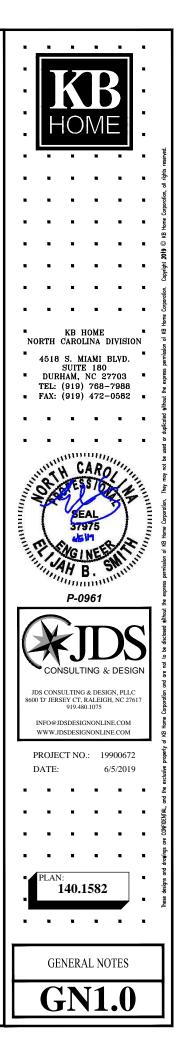
12. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOILT, BOILTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE, WITH TWO BOLTS TO BE LOCATED AT 6" FROM

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

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



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 <u>TABLE R602.3(1)</u> 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)

MAX HEIGHT (PLATE TO PLATE) FRAMING MEMBER SIZE 115 MPH ULTIMATE DESIGN WIND SPE	ED
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) 2x6 @ 16" OC 21'-6"	
(2) 2x6 @ 12" OC 25'-0"	
(2) 228 @ 468 00 271 08	
(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 LIMITED.
- d. FOR GREATER WIND SPEED, SEE ENGINEERED SOLUTION FOR CONDITION IN DRAWINGS.

ROOF SYSTEMS

TRUSSED ROOF - STRUCTURAL NOTES

- 1. 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.

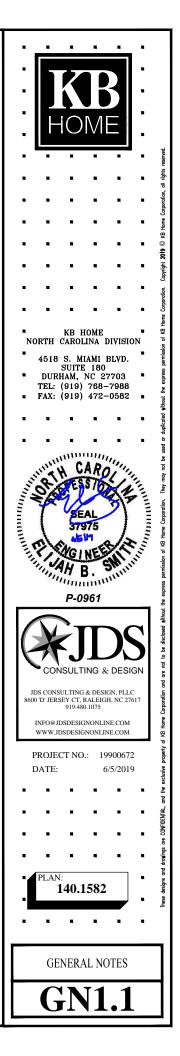
STICK-FRAMED ROOF - STRUCTURAL NOTES

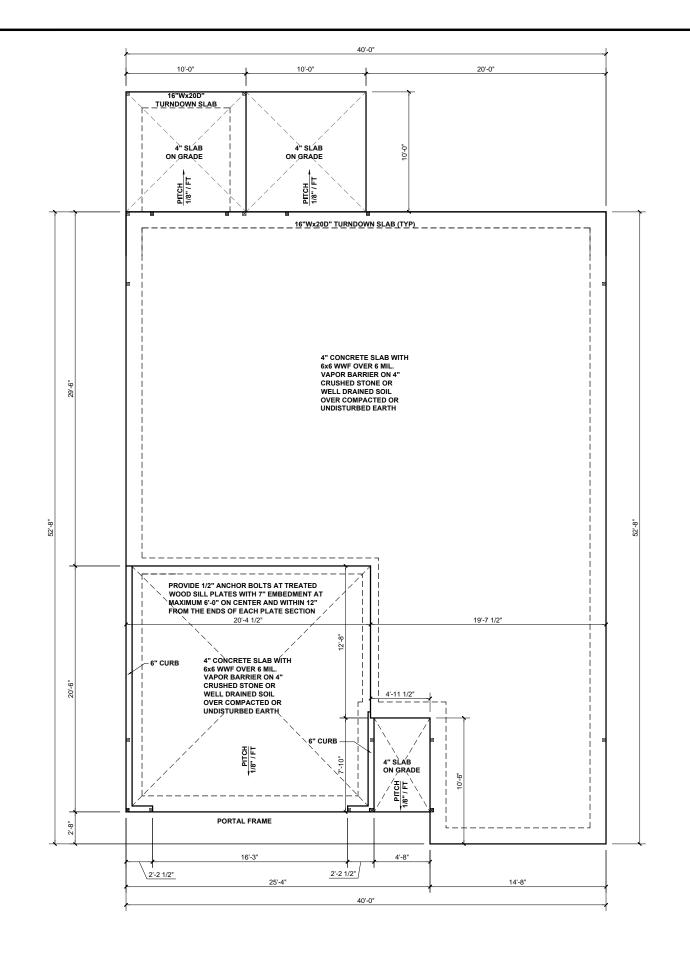
- 1. PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE.
- 2. FUR RIDGES FOR FULL RAFTER CONTACT.
- 3. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- 4. DENOTES OVER-FRAMED AREA
- 5. MINIMUM 7/16" OSB ROOF SHEATHING
- 6. PROVIDE 2x4 RAFTER TIES AT 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 SYSTEM.

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 $4^{x}x^{3}-1/2^{x}x^{1/4^{w}}$ 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.

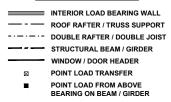




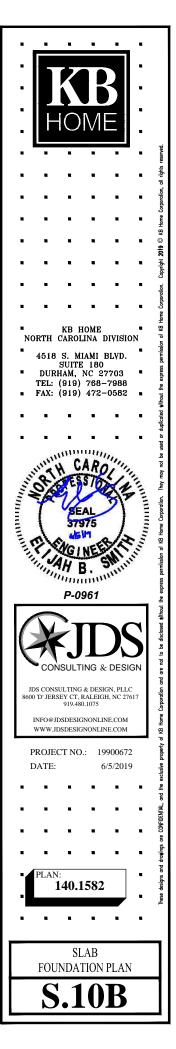
SLAB FOUNDATION PLAN - 'B'

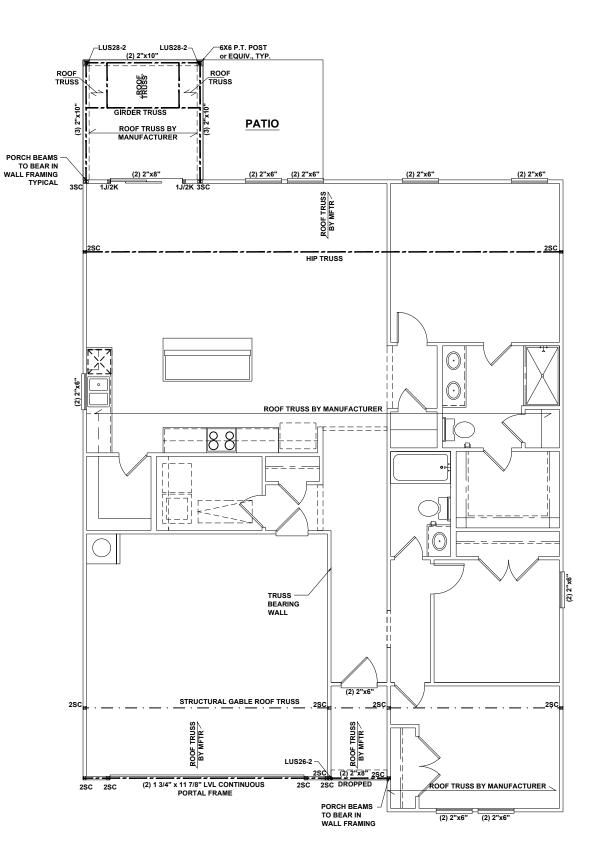
SCALE: 1/8"=1'-0"

BEAM & POINT LOAD LEGEND



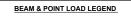
(1) #5 REBAR @ CENTER OFF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)





FIRST FLOOR CEILING FRAMING PLAN - 'B'

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

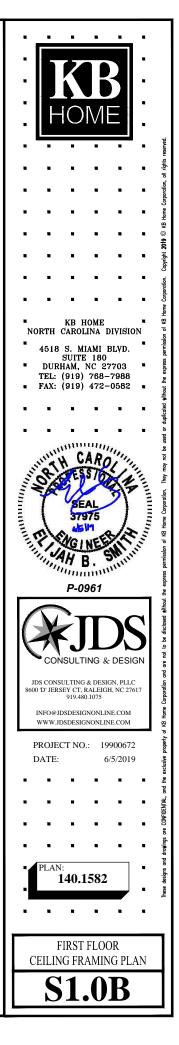


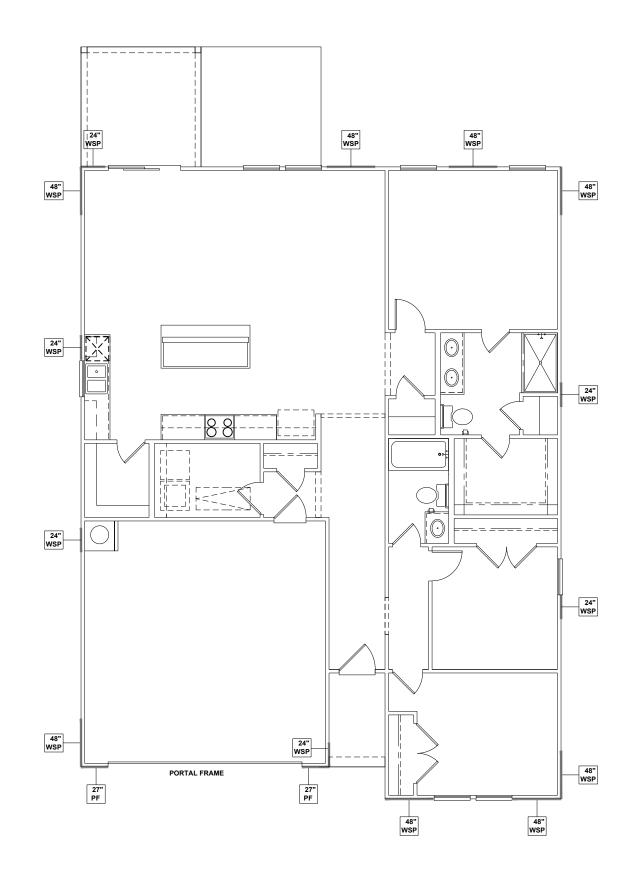


STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)

- 1. ALL FRAMING TO BE #2 SPF MINIMUM.
- 2. 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.
- 4. ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
- 5. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- 6. 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.
- 8. 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.
- 10. 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 MANUFACTURER'S SPECIFICATIONS).
- 12. 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).

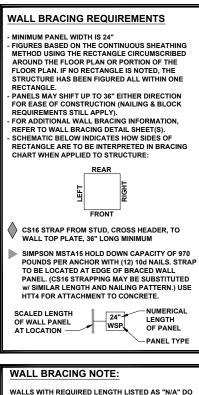
ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2X_STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.





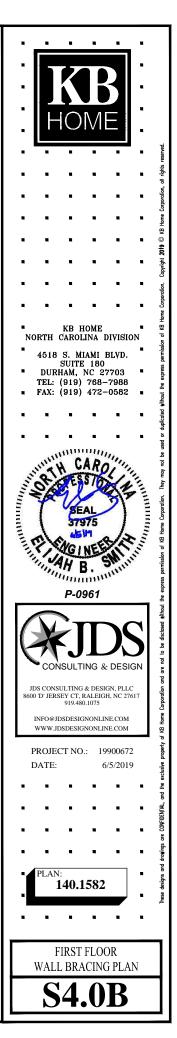
FIRST FLOOR WALL BRACING PLAN - 'B'

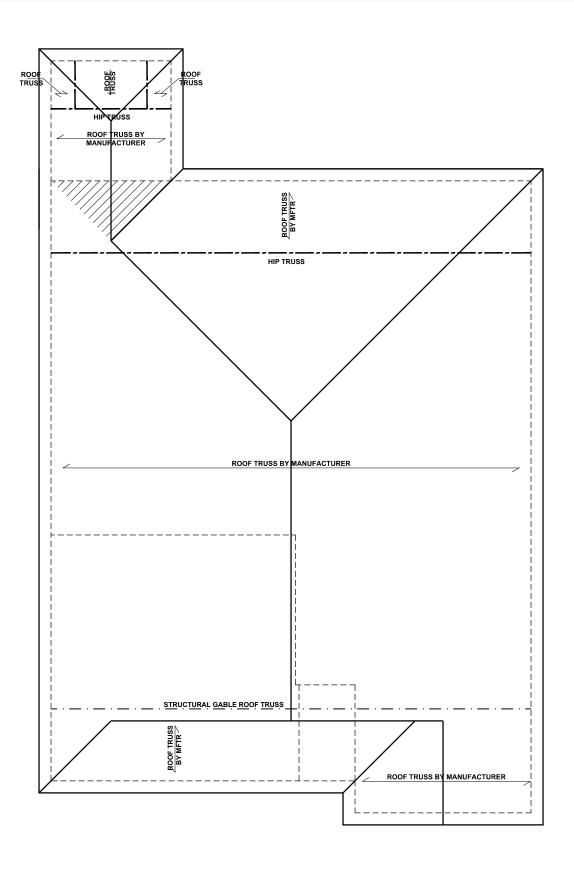
SCALE: 1/8"=1'-0"



WALLS WITH REQUIRED 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.

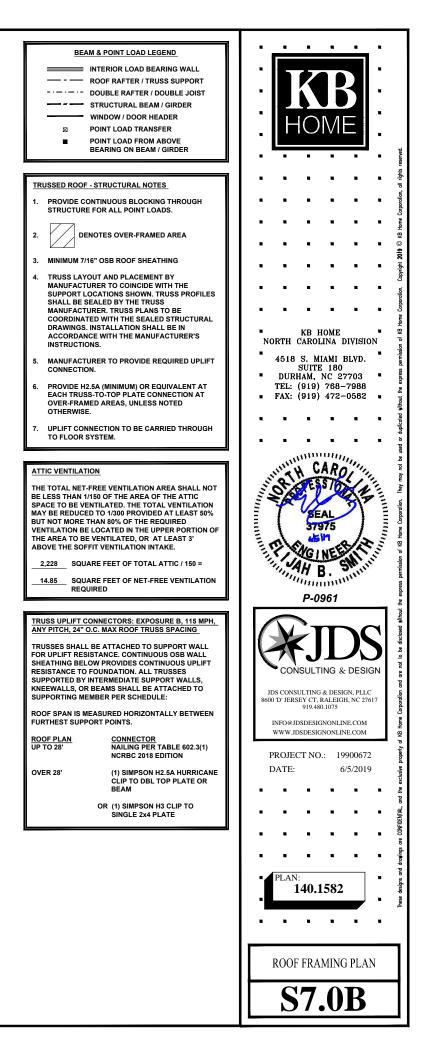
WALL BRACING: RECTANGLE 1				
REQUIRED LENGTH	PROVIDED LENGTH			
8.0 FT.	14.75 FT.			
6.0 FT.	10.0 FT.			
8.0 FT.	10.0 FT.			
6.0 FT.	12.0 FT.			
	REQUIRED LENGTH 8.0 FT. 6.0 FT. 8.0 FT.			

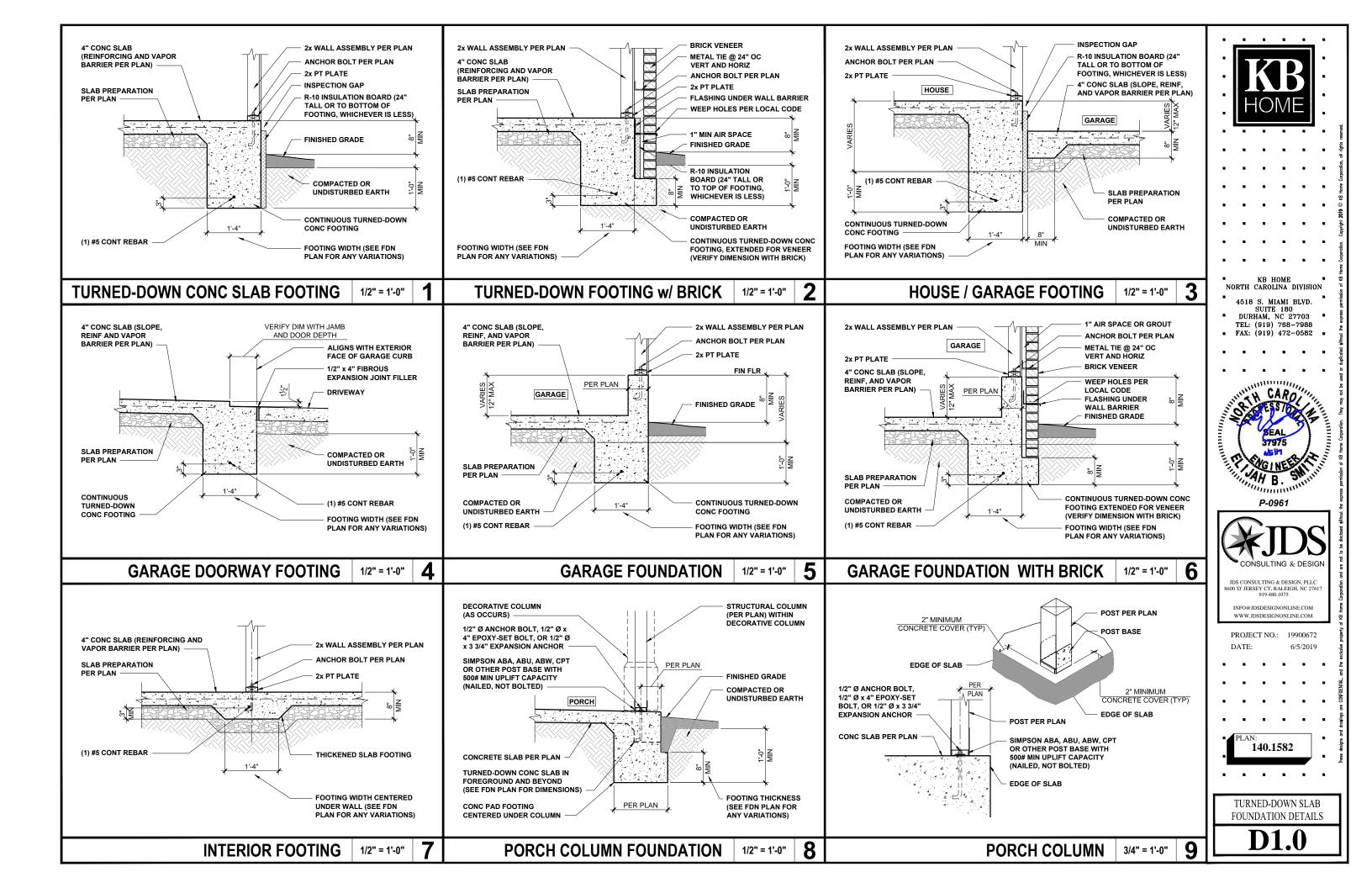




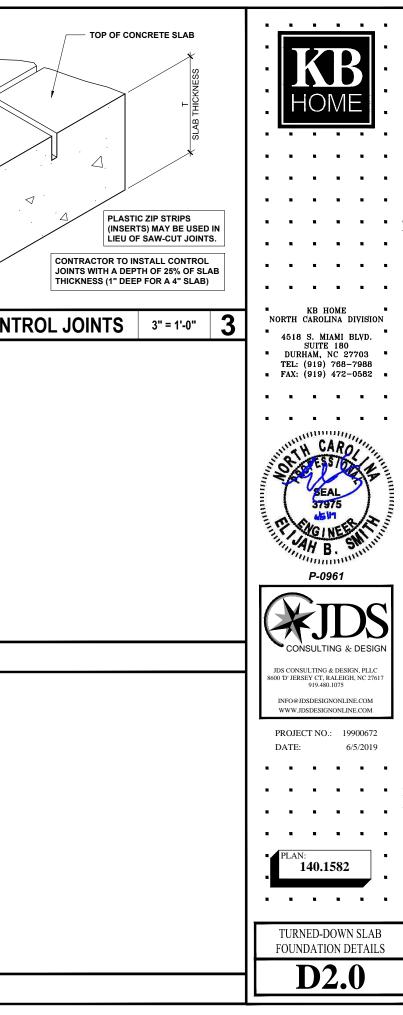
ROOF FRAMING PLAN - 'B'

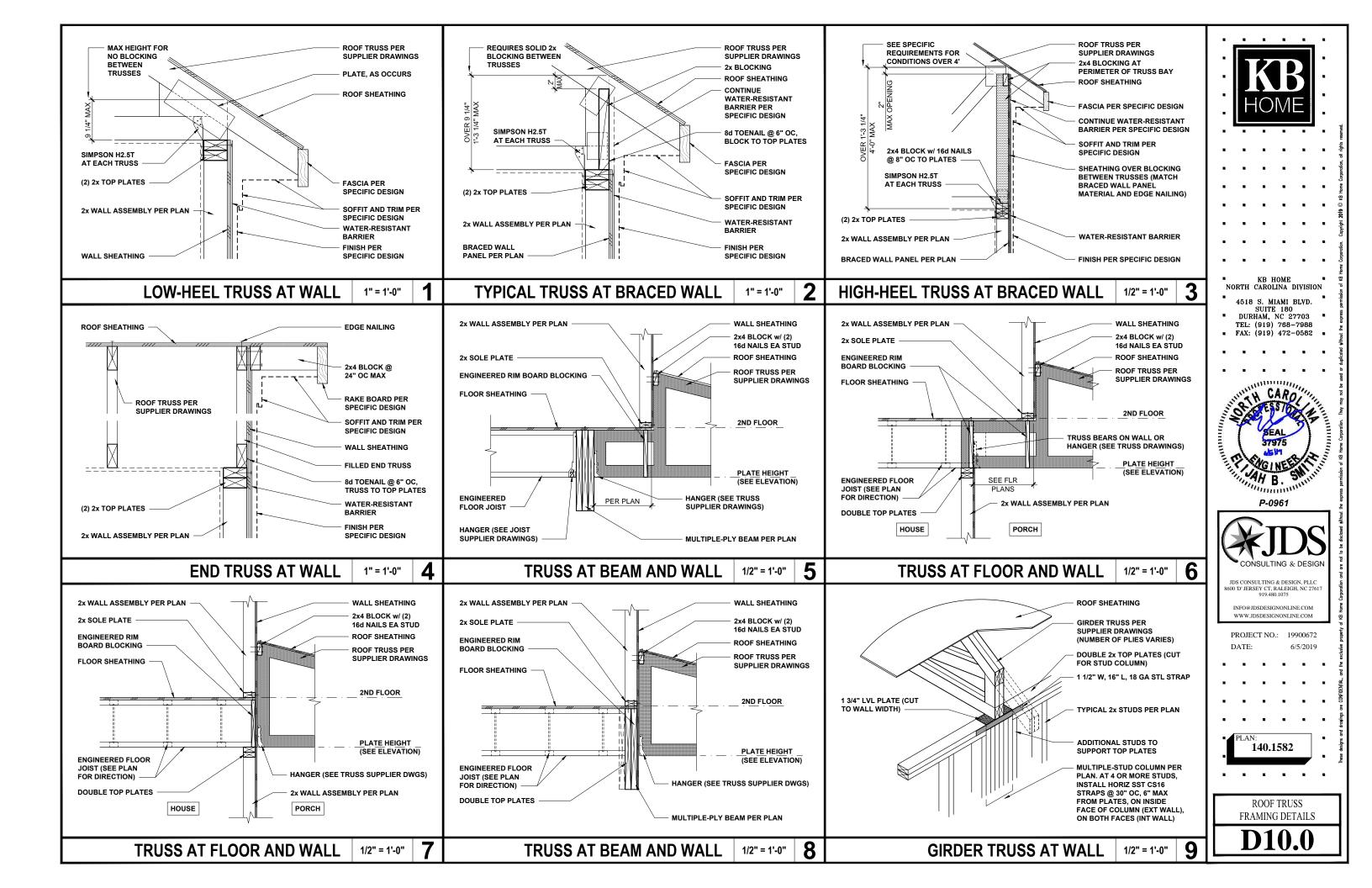
SCALE: 1/8"=1'-0"

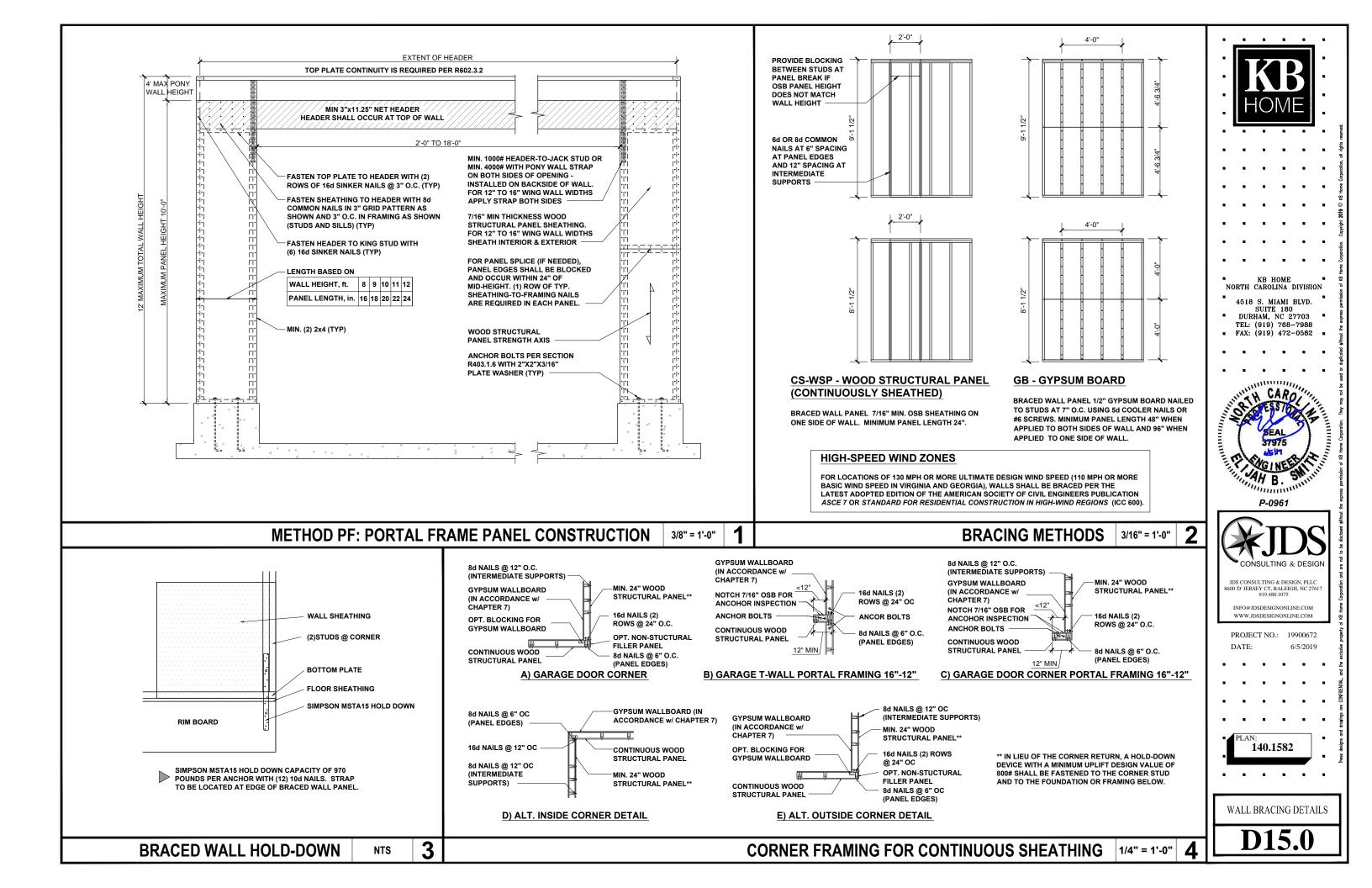




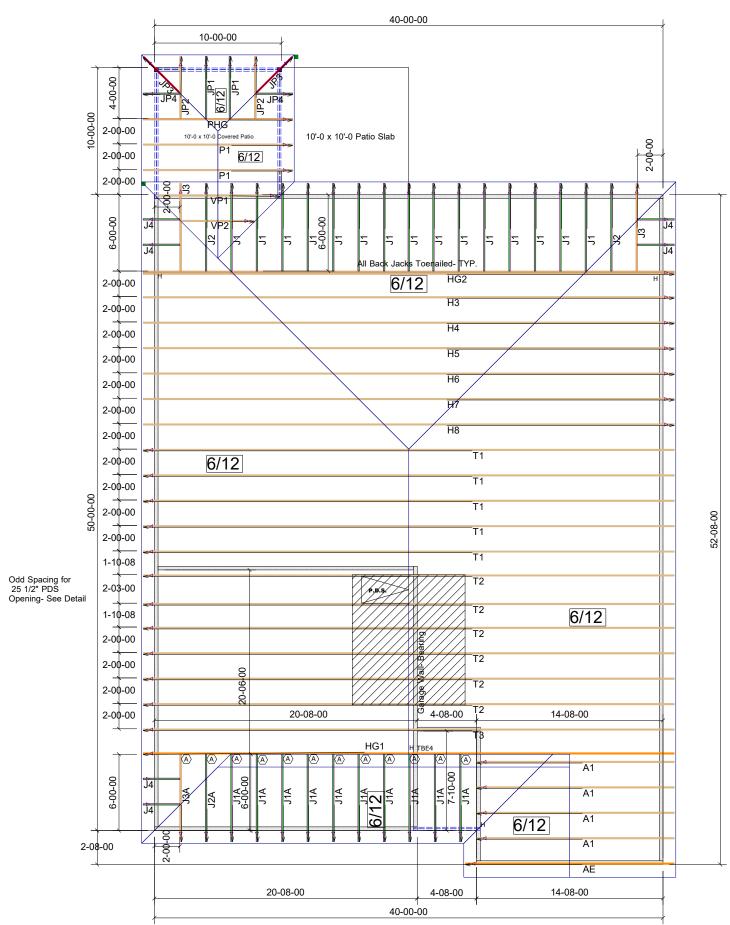
COLUMN PER PLAN A" CONC SLAB (REINFORCING AND VAPOR BARRIER PER PLAN) SLAB PREPARATION PER PLAN OUTING REINFORCING PER PLAN (3" MIN COVER) PAD FOOTING SIZE PER PLAN FOOTING CENTERED UNDER COLUMN	A" CONC SLAB (REINFORCING AND VAPOR BARRIER PER PLAN) SLAB PREPARATION PER PLAN UNDER COLUMN SIZE OTING REINFORCING PER PLAN UNDER COLUMN SIZE PECIFIC MODEL NUMBER VARIES WITH COLUMN SIZE UNDER COLUMN	SAW-CUT CONTROL JOINT AT 10' ON CENTER IN EACH DIRECTION (10' X 10' GRID PATTERN) (10' X 10' GRI
INT POINT-LOAD FOOTING SECTION 1/2" = 1'-0" 1	ISOLATED COLUMN FOOTING 1/2" = 1'-0" 2	CONCRETE SLAB CONT

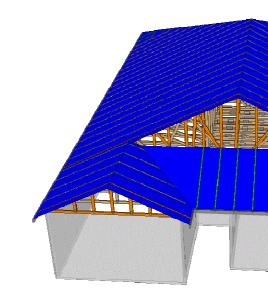




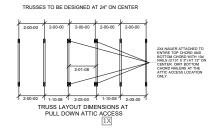








THE PURPOSE OF THIS DETAIL IS TO ILLUSTRATE HOW TO PROPERLY SPACE 24" O.C. ROOF TRUSSES TO ALLOW FOR A 25 1/2" OPENING FOR PULL DOWN ATTIC ACCESS



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Sym	
А	ç
-	
С	ç
Н	S
	A · C

