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40' SERIES

### GENERAL REQUIREMENTS

- THE WORD 'CONTRACTOR' AS USED HEREIN SHALL MEAN THE GENERAL CONTRACTOR, SUBCONTRACTORS AND ALL PERSONS DIRECTLY OR DIRECTLY EMPLOYED BY ANY OF THEM
- CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODE REQUIREMENTS: 2.
  - ALL LANS, STATUTES, THE MOST RECENT BUILDING CODES, ORDINANCES, RULES, REGULATIONS, AND LANFUL ORDERS OF ALL PUBLIC AUTORITIES HAVING JURISDICTION OVER COMMER, COM-TRACTOR, ANY SUBCONTRACTOR, 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 CONTRACTOR SHALL CAREFULLY STUDY AND REVIEW THE CONSTRUCTION DOCUMENTS AND INFORMATION FURNISHED BY OWNER, AND SHALL PROMPTLY REPORT IN MRITING TO OWNER'S REPRESENTATIVE ANY RERORS, INCONSISTENCIES, OR OHISOTONS IN THE CONSTRUCTION DOCU-MENTS OR INCONSISTENCIES MITH 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 ARREEMENT OF ONNER CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH MORK 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 ONS AND CAREFULLY COMPARE WITH THE CONSTRU DOCUMENTS SUCH FIELD MEASUREMENTS CONDITIONS AND OTHER INFORMATION 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 PROFESSIONAL WORKMANLIKE MANNER BY SKILLED MECHANICS AND SHALL REPLACE ANY MATERIALS OR ITEMS DAMAGED BY SUB-CONTRACTOR'S FERFORMANCE. SUB-CONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK. ALL AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK, ALL SUB-CONTRACTOR, WORKMANSHIP SHALL BE OF QUALITY 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 QUALITY OF BUILDING WILL BE DONE IMMEDIATELY. EACH SUBCONTRACTOR, UNLESS SPECIFICALLY EXEMPTED BY THE TERMS OF HISHERS SUBCONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIN OT LIFT BY OTHER SUB-CONTRACTORS, BUILDER WILL DETEMINE HOW SOON AFTER SUBCONTRACTOR COMPLETES EACH PHASE 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 ANDIGUOUS MUST BE REFERRED 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, WITH FRIOR APPROVAL BY THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL SUBMIT FOR THE ARCHITECT'S AND BUILDER'S APPROVAL ALL MATERIALS OR EQUIPMENT WHICH IS CONSIDERED 'O'R 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 PROR 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 CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" DRAWINGS AND THEY SHOULD NOT IN ANY WAY BE USED AS SUCH.
- ALL STANDARD NOTES CONTAINED HEREIN ARE TYPICAL UNLESS 14. NOTED OTHERWISE
- 15. TYPICAL DETAILS AND SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.
- SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- SEE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS 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 STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., AND BURIED 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 PROTECT ADJACENT PROPERTIES.
- 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
- 14 FOR ONSITE CONTSRUCTION, PLANG TO COMPLY WITH NECESSARY INSPECTIONS APPROVED BY THE BUILDING OFFICIAL.
- 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 310, 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 REMOVED.
- CONDUIT, PIPES AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND NITHIN THE LIMITATIONS OF ACI 318, SECTION 6.3, ARE PERMITTED TO BE EMPEDDED 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 (8" HJ.D.) ABOVE FINISH GRADE.
- FOUNDATION WIDTHS, DEPTHS, AND REINFORCING, AS SHOWN ON PLANS, ARE SUPERCEDED BY ANY LOCAL CODES OR ORDINANCES NHICH REQUIRE INCREASES OF THE SAME.
- 12 ALL REINFORCEMENT, CONDUIT, OUTLET BOXES, ANCHORS, HANGERS LEEVES, 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-TENSION 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 2 N.C.-R. AND SECTIONS 6.1 AND 6.2 OF ACI 530/ASCE 5/TMS 402.
- STONE VENEER UNITS NOT EXCEEDING 5 INCHES IN THICKNESS SHALL BE ANCHORED DIRECTLY TO MASONRY, CONCRETE OR TO STUD CONSTRUCTION BY ONE OF THE APPROVED METHODS LISTED IN THE N.C.-R
- MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL COMPLY WITH ASTM C 210. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE WIT THE N.C.R AND SHALL MEET THE PROPORTION SPECIFICATIONS OR THE PROPERTY SPECIFICATIONS OF ASTM C 210
- 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 MM.
- 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

- REFER TO STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL, METAL AND REINFORCING STEEL SPECIFICATIONS.
- 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 THREADEN THE CHARGETED MATERIAL SHALL BE SUFFICIENT TO FULLY ENGAGE THE THREADS OF THE NITS, BUT SHALL 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 BRONZE OR COPPERV VERIFY ACCEPTABLE FASTENERS PER CHEMICALS USED IN PRESERVE PRESERVITIVELY TREATED WOOD W/ N.C.-R. FASTENINGS FOR WOOD FOUNDATIONS SHALL BE AS REQUIRED IN AF&PA TECHNICAL REPORT NO. T.

### WOOD & FRAMING

### LUMBER

- 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 PLYWOOD REQUIRED TO BE PRESSURE PRESERVATIVELY REATED 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.
- 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 THE FOLLONING LOCATIONS SHALL REQUIRE THE USE OF NATURALLY DURABLE WOOD OR WOOD THAT IS PRESERVATIVE TREATED ACCORDANCE WITH AWPA UI FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE. PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA U
- WOOD JOISTS OR THE BOTTOM OF WOOD FLOOR WHEN CLOSER THAN I. IS INCHES, OR WOOD GIRDERS WHEN CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRANL SPACES OR UNEXCAVATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BULDING FOUNDATION.
- ALL EXTERIOR SILLS \$PLATES THAT REST ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS. 2.
- SILLS AND SLEEPERS ON A CONCRETE OR MASONRY, UNLESS THE SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND IS SEPARATED BROW THE GROUND BY AN APPROVED IMPERVIOUS MOISTURE BARRIER.
- THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 0.5 INCH ON TOPS, SIDES AND ENDS.
- 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.
- WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED 2. DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED 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 DONN, INCLUDING FOSTS, GUARDRALLS, PICKETS, STEPS AND FLOOR STRUCTURE. COVENINGS THAT WOLD PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE OR AT JOINTS BETWEEN WARDERS 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)

FLOOR FRAMING

ROOF FRAMING

REQUIREMENTS OF THE N.C.-R

PROJECT IS TO BE BUILT.

MALL FRAMING

5.

- 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

ALL VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER, AND BE FASTENED TO, COMMON STUDS. HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER, AND BE FASTENED TO, COMMON BLOCKING OF A MINIMUM OF 11/2 INCH THICKNESS.

ANT TREATED WOOD

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

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

IN ONE- AND TWO-FAMILY DWELLING CONSTRUCTION USING VINYL ALUMINUM AS A SOFFIT MATERIAL, THE SOFFIT MATERIAL SHALL SECURELY ATTACHED TO FRAMING MEMBERS AND USE AN

SALEALITEM THATEXTALLING OR \$56 INCH 6YTSUM BOARD, VENTING REQUERIENTS APPLY TO BOTH SOFTI AND UNDERLATMENT AND SHALL BE PER SECTION REAG OF THE NORTH CAROLINA RESIDENTIAL CODE. WHERE THE PROFERTY 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 OTHERWISE.

THE MANUFACTURER SHALL SUPPLY TO THE ARCHITECT AND BUILDER

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

CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL OF DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARING), VOLUME CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION.

TRUSG MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERANSE ALTERED IN ANY WAY MITHOUT THE APPROVAL OF A REGISTERED DESIGN FROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOAD (E.G. HVAC EQUIPMENT, WATER HEATER) THAT EXCEEDS THE DESIGN LOAD FOR THE TRUSSES SHALL NOT BUT PERMITED WITHOUT WRITTEN VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.

ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY A

MANUFACTURER IS TO SECURE BUILDING DEPARTMENT APPROVA

OF CALCULATIONS AND SHOP DRAWINGS PRIOR TO FABRICATION

ESSIONAL ENGINEER REGISTERED IN THE STATE WHEREIN THE

THE SIZE, HEIGHT, AND SPACING OF STUDS SHALL BE IN ACCORDANCE WITH THE N.C.-R

STUDS SHALL BE PLACED WITH THEIR WIDE DIMENSION PERPENDICULAR

NOT LESS THAN THREE STUDS SHALL BE INSTALLED AT EACH CORNER OF AN EXTERIOR WALL.

WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTION MITH BEARING PARTITIONS. END JOINTS IN TOP PLATES SHALL BE OFFSET AT LEAST 24 INCHES, JOINTS INT NOP PLATES SHALL BE NOT LESS THAN 2-INCHES NOMINAL THICKNESS AND HAYE A MUDTH 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 16 INCHES ON CENTER, INTERIOR NONBEARING WALLS SHALL BE CAPPED WITH AT LEAST A SINGLE TOP PLATE. INTERIOR NONBEARING WALLS

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

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

WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE

UNDERLAYMENT MATERIAL OF EITHER FIRE RETARD

### 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 CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH, STUDS IN NONBEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40 PERCENT OF A SINGLE STUD WIDTH. NOTCHING OF BEARING STUDS SHALL BE ON ONE EDGE ONLY AND NOT TO EXCEED ONE-FOURTH THE HEIGHT OF THE STUD. NOTCHING SHALL NOT OCCUR IN THE BOTTOM OR TOP 6 INCHES OF BEARING STUDS.
- DRILLING, ANY STUD MAY BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO MORE THAN 60 PERCENT OF THE STUD WIDT, THE EDGE OF THE HOLE IS NO MORE THAN 50° INCH TO THE EDGE OF THE STUD, AND THE HOLE SHALL NOT BE CLOSER THAN 6 INCHES FROM AN ADJACENT HOLE OR NOTCH. HOLES NOT EXCEEDING 3/4 INCH DIAMETER CAN BE AS CLOSE AS I 1/2 INCHES ON CENTER SPACING, STUDS LOCATED IN EXTERIOR WALLS OR BEARING FARTITIONS DRILLED OVER 40 FERCENT 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 NALLS AND BEARING PARTITIONS, PROVIDED THAT ONE OF THE FOLLOWING CONDITIONS ARE MET. (a) THE WALL SECTION IS REINFORCED WITH 1/2-INCH EXTERIOR SRADE PLYWOOD OR EQUIVALENT REINFORCHMENT ON THE NOTCHED SIDE OF THE WALL, PLYWOOD, IF USED, SHALL REACH FROM THE FLOOR TO CEILING AND AT LEAST ONE STUD PURTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT. (b) THE EXTERIOR WALLS OF A KITCHEN MAY BE REINFORCED BY PLACING 1/2-INCH PLYWOOD OR EQUIVALENT REINFORCED BY PLACING 1/2-INCH PLYWOOD OR EQUIVALENT REINFORCED BY THE SOLTION TO CONTENT-TOP HEIGHT NOT AT LEAST ONE STUD FIRMTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT. NOTCHED OR OUT
- WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTIALY IN AN EXTERIOR MEAN TIFING OR DOCIDENTS IS PLACED IN OR PARINALT IN AN EALBACK OR INTERIOR LOAD-BEARING WALL NECESSITATION CUTTING, DRILLING OR NOTCHING OF THE TOP PLATE B MORE THAN SO PERCENT OF ITS WIDTH A GALVANIZED METAL ITIE OF NOT LESS THAN O.054 INCH THICK AND I 1/2" INCHES 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 .- F
- 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, ALI 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 SNULLY AND NAILED THERETO TO PROVIDE ADEQUATE LATERAL SUPPORT.

#### FIRE BLOCKS AND DRAFT STOPS

2.

3

CTIONS

FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND A ROOF SPACE. FIREBLOCKING SHALL BE PROVIDED IN 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 WITH JOINT BACKED BY 23/32-INCH WOOD STRUCTURAL PANELS OR ONE THICKNESS OF 3/4-INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INC PARTICLEBOARD, 1/2-INCH GYPSOM BOARD, OR 1/4-INCH CEMENT-BASED MILL 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 GLASG FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE ID FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL RONG OF STUDS OR STAGGERED STUDS. LOOSE FILL INGULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMOSITRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GROUPS.

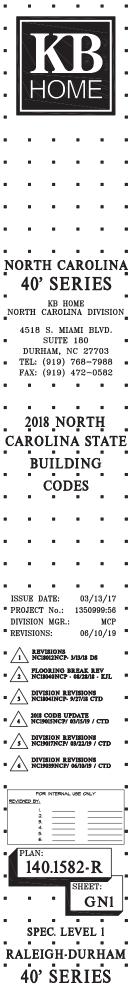
WHEN THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED MERI THERE IS USABLE STALE BUT ADVE AND BEINT THE CONSTALLED SPACE OF A FLOOR/CELING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1,000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS, WHERE THE ASSEMBLY IS ENCLOSED BY A AFFRANCIALLI, LAVAL ARCAN, MERE INE ADDITIOL IN ENCLOYED BY A FLOOR NEMERANE ABOVE AND A CELLING MEMBRANE BELOM, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CELLING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES:

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

#### HANDRAIL AND GUARDRAIL

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 ARE REQUIRE



### 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 JIRED. TO MAKE WORK COMPLETELY WATERPROC
- "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 UNDERNEATH SHALL BE WATERROOFED AND SLOPED A MINIMUM OF |/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE) FOR DRAINAGE.
- PROVIDE A MINIMUM 2 INCH DROP FROM FINISHED INTERIOR FLOOR ELEVATION TO THE HIGHEST FLOOR ELEVATION OF ANY ADJOINING DECK OR BALCONY.
- ELASTOMERIC OR MEMBRANE DECK COATINGS SHALL BE INSTALLED 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-FLONS 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, WEATHERPROOP MATERIALS OF A WIDTH 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 PREVENT ENTRY OF WATER INTO THE WALL I2. CAVITY OF PREMERATION OF MATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA TIL FUID-APPLIED MEMBRANES USED AS FLASHING SHALL EXTERIOR MALLS SHALL COMPLY WITH AAMA TIL, THE FLASHING SHALL EXTERIOR MALLS SHALL COMPLY MITH AAMA TIL, THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH ALUMINM FLASHING SHALL NOT BE USED IN CONTACT MITH CENENTITIONS MATERIAL, EXCEPT AT CONTER IN AGUING A DEPORTOR FOR CONTACT AND A DEVINTIONS MATERIAL. COUNTER FLASHING. APPROVED CORROSION-RESISTANT FLASHINGS SHALL BE INSTALLED AT ALL OF THE LOCATIONS STATED IN N.C.-R.
- At all window and door openings use fortifiber water-resistive barriers, i.c., esr-1027, installed per manufacturers specifications, or approved bull.
- ALL BEAMS, OUTLOOKERS, CORBELS, ETC. PROJECTED THROUGH EXTERIOR WALLS OR PENETRATING EXTERIOR FINISHES SHALL BE FLASHED WITH A MINIMUM O.019-INCH (NO. 26 SHEET METAL GAGE) CORROSION-RESISTANT METAL AND CAULKED
- ALL SHEET METAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (S.M.A.C.N.A.), THE ARCHITECTURAL SHEET METAL MANUAL, AND SEALANT, WATERROOFING AND RESTORATION INSTITUTES (SAIR.I.) GUIDE -"SEALANTS: THE FROFESSIONAL'S GUIDE".
- SHEET METAL SHALL BE STEEL SHEET, HOT-DIPPED, TIGHT COATED AND GALVANIZED, CONFORMING TO AS.T.M. ASS 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'S INSTALLATION INSTRUCTIONS, BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL OF MINIMUM NOMINAL O.OH-INCH THICKNESS OR MINERAL SURFACE ROLL ROOFING HEIGHING A MINIMUM OF TT POINDS FER IOD SQUARE FEET. CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMUM NOMINAL O.OH-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 FER THE N.C.-R.
- A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN BO INCHES WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL OR OF THE SADE MATERIAL AS THE ROOF COVERING. PROVINCE FLASHING AT THE INTERCETION OF ORICKET OR SADDLE AND 12.
- FLASHING AGAINST A VERTICAL SIDEWALL SHALL BE BY THE STEP-FLASHING METHOD PER NG-R.
- FLASHING AGAINST A VERTICAL FRONT WALL, AS WELL AS SOIL STACK VENT PIPE AND CHIMMEY FLASHING, SHALL BE APPLIED ACCORDING TO ASPHALT SHINGLE MANUFACTURER'S PRINTED INSTRUCTIONS.
- AT THE JUNCTURE OF ROOF VERTICAL SURFACES, FLASHING AND COUNTERFLASHING SHALL BE PROVIDED IN ACCORDANCE WITH THE N.C.-R AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND, WHERE OF METAL, SHALL NOT BE LESS THAN O.O.I. INCH (NO. 26 GALVANIZED SHEET 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 MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALLATION OF ROOF COURRINGS 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 OUESTIONABLE SUITABILITY, TESTING BY AN APPROVED TESTING AGENCY SHALL BE REQUIRED BY THE BUILDING OF APPLICATION OF THE MATERIALS.

### THERMAL & MOISTURE

### PROTECTION (continued)

- ROOF COVERING MATERIALS SHALL BE DELIVERED IN PACKAGES BEARING HE MANUFACTURER'S IDENTIFYING MARKS AND APPROVED TES NG AGENC LABELS WHEN REQUIRED, BULK SHIPMENTS OF MATERIALS SHALL BE ACCOMPANED 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
- INDERLAYMENT 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 PENETATE 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 IGHTOUGH 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 NDIVIDUAL SHINGLE PER NC.-P
- 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 167
- 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 REQUIRED IN ACCORDANCE WITH THE N.C.-R
- UNDERLAYMENT FOR CLAY AND CONCRETE TILE SHALL CONFORM WITH ASTM D 226, TYPE II, ASTM D 2626 TYPE I; OR ASTM D 6380 CLASS M MINERAL SURFACED ROLL ROOFING.
- CONCRETE ROOF TILE SHALL COMPLY WITH ASTM C 1492.
- NAILS SHALL BE CORROSION-REGISTANT AND NOT LESS THAN IL GAGE MALE SHALL DE CONNOCIDIANELSISTANT HE DECK SIGENICH HEAD, AND OF SUFFICIENT LENGTH TO FENERTATE 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.
- IT. CLAY AND CONCRETE ROOF TILES SHALL BE FASTENED IN ACCORDANCE WITH THE N.C.-R
- TILE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, BASED ON CLIMATIC CONDITIONS, ROO'S LOPE, NOTBELAYMEN SYSTEM, AND TYPE OF TILE BEINS INSTALLED PER THE N.C.-R 18.
- THE INSTALLTION OF BUILT-UP ROOFS SHALL COMPLY WITH THE N.C.-R
- 20. BUILT-UP ROOFS SHALL HAVE A DESIGN SLOPE OF A MINIMUM OF ONE-FOUTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE, EXCEPT FOR COAL-TAR BUILT-UP ROOFS THAT SHALL HAVE A DESIGN SLOPE OF A MINIMUM ONE-EIGHTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (I-PERCENT SLOPE)
- 21. BUILT-UP ROOF COVERING MATERIALS SHALL COMPLY WITH THE STANDARDS PER THE NC -R

#### EXTERIOR MALL 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 MALLS SHALL PROVIDE THE BUILDING WITH A MEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR MALL ENVELOPE SHALL INCLUDE FLASHING. THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF MATER WITHIN THE WALL ASSEMBLY BY PROVIDING A MATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENEER AS REQUIRED AND A MEANS OF DRAINING WATER THAT ENTERS THAS FMEQUIRED AND A MEANS OF DRAINING WATER THAT ENTERS THAS EXERVICE THE EXTERIOR. PROTECTION ASAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED 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 OF ALL EXTERIOR MALLS, SUCH FELT OR MATERIAL SHALL BE APPLED NOT LESS THAN 6 INCHES, THE FELT OR OTHER APPROVED MATERIAL SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BULLONG 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 36/19 SHALL BE PERMITTED ON EXTERIOR NALLS OF BUILDINGS OF TYPE V CONSTRUCTION LOCATED IN AREAS MHERE THE ULTIMATE WIND SPEED SPECIFIED DOES NOT EXCEED 100 MILES PER HOUR AND THE BUILDING HEIGHT IS LESS THAN AD FEET IN EXPOSURE C. WHERE CONSTRUCTION IS LOCATED IN AREAS MHERE THE ULTIMATE WIND SPEED EXCEEDS 130 MILES PER HOUR OR BUILDING HEIGHTS ARE IN EXCESS OF 40 T. DATA INDIGATING COMPLIANCE MUST BE SUBMITTED THE EXTERIOR WALLS OF THE BUILDING.
- VINYL SIDING SHALL BE APPLIED OVER SHEATHING OR MATERIALS LISTED IN THE NG.-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 MANUFACTURERS INSTRUCTIONS.
- VINYL SIDING FASTENERS AND ACCESSORIES SHALL MEET THE REQUIREMENTS OF THE N.C.-B
- EXTERIOR WALLS OF WOOD CONSTRUCTION SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE N.C.-R

### THERMAL & MOISTURE

### PROTECTION (continued)

- HARDBOARD SIDING SHALL CONFORM TO THE REQUIREMENTS OF AHA 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 HARDEDARD BUING OR C375-INCH EXTERIOR-TYPE MOOD STRUCTURAL PANELS OR PARTICLE-BOARD AND SHALL COMPORENT OF THE REQUIREMENTS OF THE NC.-R 10
- FIBER-CEMENT LAP SIDING HAVING A MAXIMUM WIDTH OF 12 INCHES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM CIBO, TYPE A, MINIMUM GRADE II LAP SIDING SHALL BE LAPPED A MINIMUM OF II/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, ENDS SEALED WITH CAULKING, INSTALLED WITH AN H-SECTION JOINT COVER, LOCATED OVER A STRIP OF FLASHING OR SHALL BE DESIGNED TO COMPLY 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-PERVEABLE MEMBRANESINSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, MALL-ASSEMBLIES, CRANL BRACES 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 54 OR UL 123.
- DUCT INSULATION MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS OF THE N.C.-R
- Insulation and covering on pipe and tubing shall have a flame-spread index of not more than 25 and a smoke-developed index of not more than 450 see exceptions.
- ALL EXPOSED INGLI ATION MATERIALS INSTALLED ON ATTIC FLOORS SHALL AVE & CRITICAL RADIANT FULL OF NOT LESS THAN Q12 WATT PER SOLARE IT CENTIMETER PER N.C.-R TESTS FOR CRITIAL RADIANT FLUX SHALL BE MADE IN ACCORDANCE WITH ASTM E 970
- THE USE OF ABOVE DECK THERMAL INSULATION SHALL BE PER PROVIDED SUCH INSULATION IS COVERED WITH AN APPROVED ROOF COVERING AND PASSES FM 4450 OR UL 1256 PER N.C.-R.
- CELLULOSE LOOSE-FILL INSULATION SHALL COMPLY WITH CPSC 16 CFR. PARTS 1209 AND 1404. EACH PACKAGE OF SUCH 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 CEILULOSE TYPE OR FIBERGLASS BATTS OR BLANKET TYPE PER BUILDER'S SPECIFICATIONS.
- THE ENERGY EFFICIENCY REQUIREMENTS INCLUDING LECC. BUT NOT The Energy deficiency requirements including the locating  $\mathbb{V}^{1}$  values, etc. But insulation  $\mathbb{V}^{1}$  values, etc. Shall be determined by the adopted state and locating the dedicating the dedication of the state of the FOR SPECIFICATIONS.
- THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED WITH AN AIR BARRIER SYSTEM TO LIMIT INFILITRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. FOR ALL HOMES, WHERE PRESENT, THE FOLLOWING SHALL BE CALLED, GASKETED, WEATERSTRIPPED ON OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL OR SOLID MATERIAL CONSISTENT APPENDIX E-23 AND E-24 OF THE NO-F 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 DARRIER, INSULATION SHALL BE SUBSTANTIALLY FREE FROM INSTALLATION GARS, VOIDS, OR COMPRESSION, FOR FRAMED WALLS, THE CAVITY INSULATION SHALL BE ENCLOSED ON ALL SIDES WITH A RIGID MATERIAL OR AN AIR BARRIEM MATERIAL. MALL INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN INSTALLED ON EXTERIOR MALLS PRICE TO EDING COVERED BY SUBSEQUENT CONSTRUCTION, CONSISTENT WITH APPENDIX E-23 AND E-2.4 OF NC-R. 10. TUBS

#### SHOWERS

3. STAIRS 4. FIREPLACE UNITS EVCLOSURE 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 EL OOR 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 FROM A FRIVATE GARAGE UNDER LIT INTO A ROOM DEED FOR SLEEPING FURPOSES SHALL NOT DE PERMITTED, OTHER OPENINGS DETWEEN THE GARAGE AND RESIDENCE SHALL EQUIPTED WITH SOLID WOOD DOORS NOT LESS THAN I 3/6 INCHES IN THICKNESS, SOLID OR HONEYCOMS CORE STEEL DOORS NOT LESS THAN I 3/8 INCHES THICK, OR 20-MINITE 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>WOOD</u> FRENCH DOORS SHALL BE USED IN ANY CASE.
- 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 BLOCKING THE PATH OF THE DOOR FROM CLEGING WHEN SOMETHING IS BLOCKING THE PATH OF THE DOOR SEE MANUFACTURERS NSTALLTION INSTRUCTIONS
- ALL MANUFACTURED WINDOWS AND SLIDING GLASS DOORS SHALL MEET THE ARE INFILITRATION STANDARDS OF THE CURRENT AMERICAN NATIONAL STANDARDS INSTITUTE AST.M. E283-75 WITH A FRESURE DIFFRENTIAL OF 151 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)

- 0 ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUN ALL ENERGENCE ESLAFE AND RESCUE OFENNES SHALL HAVE A MINIMUM NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FEET IN THE CASE OF , GROND FLOOR LEVEL WINDOW AND NOT LESS THAN 5.1 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.
- . EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM 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 MINIMUM ACALLONIAL AREA OF THE NINDOW NELL SHALL DE 4 SAMA FEET, WITH A MINIMUM HORIZONTAL PROJECTION AND MIDTH OF 36 INCHES THE AREA OF THE MINDOW WELL SHALL ALLON EMERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENDE PRET NER 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 PER Dense, onlike, coverse, screens or similar devices are fermitted to be placed over emergency escaper and rescue openings, plached enclosures, or nindon hells that serve such openings, provided the minimum het clear opening size complete nint the nic. Ar and such devices shall be releasable or removable from the inside nithout the use of a key, tool, special knowledge or force greater than that nhich is recuired for normal operation of the Escape and rescue defining. 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

BATHROOMS WATER OLOSET COMPARTMENTS AND OTHER SIMILAR

DATINGUOND, MATER CLOSET COMPARTMENTS AND OTHER SIMILAR ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREAS II WINDOWS OF NOT LESS THAN 3 SQUARE FEET, ONE-HALF OF WHICH MUST BE OPENABLE.

INDIVIDUAL GLAZED AREAS, INCLUDING GLASS MIRRORS IN

NG 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:

SLOWG AND DIE DOORD DOORD TELED OR OPERABLE PANEL IN THE SAME 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 SIPELACE

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 ABOVE A WALKING SURFACE.

GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS. WHIRLPOOLS.

SUALING IN DOOD AND ENDOWED AND SHORES, GLAZING SANAS, STEAM ROOMS, BATHTUBS AND SHORERS, GLAZING ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN GO INCHES MEASURED VERTICALLY ABOVE ANT STANDING OR WALKING SURFACE.

GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR

SMIMING POOLS, HOT TUBS AND SPAS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE AND WITHIN 60 INCHES MORIZONTALLY OF THE MATER'S EDGE. THIS SHALL APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE

GLAZING ADJACENT TO STAIRMAYS, LANDINGS AND RAMPS WITHIN 36 INCHES HORIZONTALLY OF A MALKING SURFACE MHEN THE EXPOSED SURFACE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE.

GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF STAIRWAYS WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN A 60-INCH HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING.

IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE MINDOW IS LOCATED MORE THAN T2 INCHES (1824 MM) ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE MINDOW SHALL BE A MINIWAY OF 24 INCHES (610 MM) ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF A 4 INCH (102 MM) DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES (610 MM) OF THE FINISHED FLOOR.

HINGED SHOWER DOORS SHALL OPEN OUTWARD.

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

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 MANUFACTURER'S DESIGNATION SPECIFYING WHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS AND THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION SHALL BE ACID ETCHED, SANDELASTED, CERAMIC-FIRED, LASER ETCHED, DEMOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT

# GLAZING & SAFETY GLAZING HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN & PERCENT OF THE FLOOR AREA OF SUCH ROOMS. NATURAL. VENTILATION SHALL BE THROUGH INHONGS, SKYLIGHTS, DOORS, LOWERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR, SUCH OPENINGS SHALL BE PROVED OPENINGS TO THE OUTDOOR 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.

BEING DESTROYED

2.

3

6.

8.

CONSERVATION CODE

2

### FINISHES

#### SYPSIM BOARD

2.

GYPSUM WALLBOARD SHALL BE INSTALLED IN CONFORMANCE WITH THE CURRENT EDITION OF THE NORTH CAROLINA RESIDENTIAL CODE AND ALL STATE AND LOCAL BUILDING CODES. THE MOST STRINGENT REQUIREMENTS SHALL GOVERN

MATERIALS, ALL GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO ASTM C 22, C 475, C 514, C 1002, C 1047, C 1171, C 1178, C 1278, C 1346, OR C 1658 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE N.C.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 EINS OF GYPSUM BOARD SHALL OCCUR ON THE FRAMING MENBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERFENDICULAR TO THE FRAMING MEMBERS. EDGES AND ENDS OF GYPSUM BOARD SHALLE EIN 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 ASSEMBLIES, OR THE EDGES AND ENDS OF HORIZONTAL ASSEMULIES PERFENDICULAR TO SUPPORTS, AND AT THE HALL LINE MAY BE OWITTED EXCEPT ON SHEAR-RESISTING ELEMENTS OR FIRE- RESISTIVE ASSEMBLIES. FASTENER SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE PAPER WITH THE FASTENER HEAD. FASTENERS

GYPSUM BOARD USED AS THE BASE OR BACKER FOR ADHESIVE APPLICATION OF CERAMIC TILE OR OTHER REQUIRED NON-ABSO FINISH MATERIAL SHALL CONFORM TO ASTM C 1946, C 1178 OR C1278. USE OF WATER-RESISTANT SYPSUM BACKING BOARD SHALL BE PERMITTED ON CEILINGS WHERE FRAMING SPACING DOES NOT EXCEED 12 INCHES ON CENTER FOR 1/2-INCH-THICK OR 16 INCHES FOR 5/8-INCH-THICK GYPSUM BOARD FUR 1/2110CHTILIC OK 18 INCHESTOR SIZHACHTINICK STIFLEM BOARD. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OYR A VAPOR RETARDER IN A SHONER OR TUB COMPARTMENT. OUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTURER

WATER RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY.

WHEN APPLYING A WATER-BASED TEXTURE MATERIAL, THE MINIMUM GYTSUM BOARD THICKNESS SHALL BE INCREASED FROM 3/8 INCH TO 1/2 INCH FOR 16-INCH ON CENTER FRAMINS, AND FROM 1/2 INCH TO 5/8 INCH FOR 24-INCH ON CENTER FRAMINS OR 1/2 INCH SAS-RESISTANT GYTSUM CEILINS 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.

UNLESS SPECIFIED OTHERWISE, ALL WALL COVERINGS SHALL BE SECURELY FASTENED PER THE N.C.-R. OR WITH OTHER APPROVED ALLMINUM, STAINLESS STEEL, ZINC-COATED OR OTHER APPROVED CORROSION-RESISTIVE FASTENERS, INTERE THE BASIC WIND SPEED IS 10 MILES PER HOUR OR HIGHER, THE ATTACHMENT OF WALL COVERINGS SHALL BE DESIGNED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED AND ADJUSTED FOR HEIGHT AND EXPOSURE.

A MINIMUM O.014-INCH (MO. 26 GALVANIZED SHEET GAGE), CORROSION-RESISTANT WEEP SCREED OR PLASTIC WEEP SCREED, WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 31/2 INCHES SHALL BE REVVIDED AT OR BELOW THE FOUNDATION FLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTMC 42/46. THE WEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES AROUTE THE LARTH OR 2 INCHES ABOVE PAYED AREAS AND SHALL BE OF A TYPE THAT MILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE WEEP SCREED.

#### EXTERIOR PLASTER

З.

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

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

THE PROPORTION OF AGGREGATE TO 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, WHEN PLASTIC CEMENT IS USED, NO ADDITIONAL LIME OR PLASTICIZERS SHALL BE ADDED, HYDRATED LIME OR THE EQUIVALENT AMOUNT OF LIME JTTY 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 TEMPERATURE IS HIGHER THAN 40 DEGREES F (4 DEGREES C), UNLESS PROVISIONS ARE MADE TO KEEP CEMENT PLASTER WORK ABOVE 40 DEGREES (4 DEGREES C), PRIOR TO & DURING APPLICATION AND 48 HOURS THERRAFTER.

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

A LOOAT EXTERIOR RIAGTER SYSTEM SICH AS "MAGNA WALL I.C.C. NO. ER-4716, "EXPO FIBREMALL" I.C.C. NO. ER-4366, OR APPROVED EQUAL MAY BE USED IN LIEU OF A 3-COAT EXTERIOR PLASTER SYSTEM



**RALEIGH-DURHAM** 

**40'** 

SERIES

### MECHANICAL & PLUMBING

#### H.V.A.C.

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ALL PARTERIALS AND CONSTRUCTION PERIODS STALL BE IN CONFORMANICAL CONTINUE NORTH CAROLINA RESIDENTIAL AND MECHANICAL CORE. 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 6AS CODE.
- CONTRACTOR SHALL DESIGN ENTIRE H.V.A.C. SYSTEM AND SUBMIT DRAWINGS FOR OWNER/BUILDER'S APPROVAL PRIOR TO ORDERIN MATERIALS OR EQUIPMENT.
- WHERE AIR CONDITIONING IS AN OPTIONAL FEATURE, HEATING SYSTEMS MUST BE DESIGNED AND DUCT WORK SIZED TO ACCOMMODATE FUTURE AIR CONDITIONING NEEDS.
- WHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE THERMOSTAT PER DIVELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DALY SCHEDULE TO MAINTAIN DIFFERENT THMERATURE 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 б.
- 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 APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GARAGE PER NG -R
- EXTERIOR-GRADE INSTALLATIONS. EQUIPMENT AND APPLIANCES INSTALLED ABOVE GRADE LEVEL SHALL BE SUPPORTED ON A SOLID BASE OR APPROVED MATERIAL A MINIMUM OF 2 INCHES THICK.
- 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 (51 MM) THICK FORMED CONCRETE, OR STACKED MASONRY WITS HELD IN PLACE BY MORTAR OR OTHER APPROVED METHOD, THE WATER HEATER SHALL BE SUPPORTED NOT LESS THAN 2 INCHES ABOVE GRADE.
- DRAINAGE. BELOW-GRADE INSTALLATIONS SHALL BE PROVIDED WITH A NATURAL DRAIN OR AN AUTOMATIC LIFT OR SUMP PUMP. FOR PIT REQUIREMENTS REFER TO N.C.-M 12

#### VENTING

- IN LICU OF REQUIRED EXTERIOR OPENINGS FOR NATURAL VENTILATION IN BATHROOMS CONTAINING A BATHTUB, SHOWER OR COMBINATION THEREOF, A MECHANICAL VENTILATION SYSTEM MAY BE PROVIDED. THE MINIMM VENTILATION RATES SHALL BE SO CPM FOR INTERMITTENT VENTILATION OR 20 CPM FOR CONTINUOUS VENTILATION, VENTILATION AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE PER N.C.-R
- HAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL E EQUIPPED WITH BACKDRAFT DAMPERS. 2.
- RANGE HOODS SHALL DISCHARGE TO THE OUTDOORS THROUGH A DICT. THE DICT 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, DICTS SERVING RANGE HOODS SHALL NOT TERMINATE IN AN ATTIC OR CRAML SPACE OR AREAS INSIDE THE BUILDING. DICTS SERVING RANGE HOODS SHALL BE CONSTRUCTED OF GALVANIZED STEEL, STAINLESS STEEL OR COPPER.
- WHERE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND WHERE MECHANICAL OR NATURAL VENTILATION IS OTHERWISE PROVIDED, LISTED AND LABELED DUCTLESS RANGE HOODS SHALL NOT BE REQUIRED TO DISCHARGE TO THE OUTDOORS PER N.C.-M
- DUCTS FOR DOMESTIC KITCHEN COOKING APPLIANCES EQUIPPED WITH DOWN DRAFT EXHAUST SYSTEMS SHALL BE PERMITTED TO BE CONSTRUCTED OF SCHEDULE 40 PVC PIPE PROVIDED THAT THE INSTALLATION COMPLIES WITH ALL OF THE FOLLOWING PER N.C.M.
- A. 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 C. ABOVE THE INDOOR CONCRETE FLOOR SURFACE.
- THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE GRADE OUTSIDE THE BUILDING.
- 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 CIBIC FE PER MINUTE. SUCH MAKEUP AIR SYSTEMS SHALL BE EQUIPPED WITH A MEANS OF CLOSURE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OPERATE SIMULTANEOUSLY WITH THE EXHAUST SYSTEM. FEE DAMPERS SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION
- DOMESTIC WATER HEATERS, UNLESS SPECIFIED OTHERWISE BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, SHALL BE VENTED 1 THE OUTSIDE AIR BY A TYPE 'B' VENT AND COMPLY WITH THE REQUIREMENTS OF THE N.C.-M TED TO

#### PLUMBING

- A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN SUCH A MANNER SO AS TO PREVENT AND FINANTIANELY IN SUCH A MANNER SCI AS 10 FREVENT CONTAMINATION FROM NONPOTABLE LIGUIDS, SOLIDS OR GASES BEING INTRODUCED INTO THE POTABLE MATER SUPPLY THROUGH CROSS-CONNECTIONS OR ANY OTHER PIPING CONNECTIONS TO THE SYSTEM. BACKFLOW PRE- VENTER APPLICATIONS SHALL CONFORM TO
- 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 ASHE AII2.18.1.

### MECHANICAL &

### PLUMBING (continued) PLUMBING (continued

- ALL DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTIL-LATION, PROCESSING, COOLING, OR STORAGE OF ICE OR FOODS, AND THAT CONNECT TO THE MATER SUPPLY SYSTEM, SHALL BE FROVIDED WITH PROTECTION AGAINST BACKFLON AND CONTAMINATION OF THE MATER SUPPLY SYSTEM. WATER FUMPS, FULTERS, SOFTEMERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT 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 A112.18.1 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 ACERTAIN THE ACCEPTABLITY OF THE WATER SERVICE OR WATER DISTRIBUTION PIPING MATERIAL FOR THE SERVICE OR WATER DETRIMENTAL CONDITIONS EXIST, APROVED ALTERNATIVE MATERIALS OR ROUTING SHALL BE REQUIRED.
- WATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 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.
- PIPE PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGA EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR EALENAL CARACTERIAL HALL ANTREAM ANY REACTION FROM THE LINE AND ACID OF CONCRETE, CINDER OR OTHER CORROSINE MATERIAL SHEATHING OR INRAPPING SHALL ALLOW FOR EXPANSION AND CONTRACTION OF IPPING TO PREVENT ANY RUBBING ACTION. MINIMUM MALL THICKNESS OF MATERIAL SHALL BE O.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 FROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT, PIPING SHALL BE INSTALLED TO AVOID STRUCTURAL STRESSES OR STRAINS WITHIN BUILDING COMPONENTS.
- 12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL MATER FIFED INSTRALLED IN A WALL LAYOSED TO THE EXECUTION START BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. IN OTHER CASES, WATER, SOLE 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 FLACE SUBJECTED TO FREEZING TEMPERATURES UNLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPES FROM FREEZING BY A MINIMUM OF R-65 INSULATION DETERMINED AT T5 DES. F IN ACCORDANCE WITH ASTM CITT OR HEAT OR BOTH. EXTERIOR WATER SUPPLY SYSTEM PIPING SHALL BE INSTALLED NOT EVEN ON WATER SUPPLY SYSTEM PIPING SHALL BE INSTALLED NOT LEGG TAMA IN UNVERSIBLE OW THE FROM THE DEG.

LESS THAN 6 INCHES BELOW THE FROST LINE AND NOT LESS THAN 12 INCHES BELOW GRADE.

- BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS
- BUILDING SEMER PIPE FITTINGS SHALL BE APPROVED FOR INSTALLATION WITH THE PIPING MATERIAL INSTALLED AND SHALL CONFORM TO THE RESPECTIVE PIPE STANDARDS OR ONE OF THE STANDARDS LISTED IN NC.-P.
- 15. WHERE WASTE LINE DROPS OCCUR IN A LOCATION WHERE THE SOUND OF FLUSHED TOILET MAY BE UNDESIRABLE, SUCH AS IN WALLS OF 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 SHOWER AND TUB/SHOWER 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 1016/ ASME A112.1016/CSA B125.16. AND SHALL BE INSTALLED AND ADJJSTED 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 IS 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 SOLUE), LIQUID OR (6AS FUEL) WITH THE EXCEPTION OF THOSE HAVING DIRECT VENT SYSTEMS, SHALL NOT BE INSTALLED IN BATHROOMS AND BEDROOMS OR IN A CLOSET WITH ACCESS ONLY THROUGH A BEDROOM OR BATHROOM, HONEVER, WATER HEATERS OF THE AUTOMATIC STORAGE TYPE MAY BE INSTALLED AS REPLACEMENT IN A BATHROOM, WHEN APPROVED BY THE PLUMBING OFFICIAL, PROVIDED THEY ARE VENTED AND SUPPLIED WITH ADEQUATE COMBUSTION AIR.
- IN SEISMIC DESIGN CATEGORIES DO, DI AND D2 AND TOWNHOUSES IN SEISMIC DESIGN CATEGORY C, NATER HEATERS SHALL BE ANCHORED OR STRAPPED IN THE UPPER ONE-THIRD AND IN THE CHORE ONE-THIRD OF THE APPLIANCE TO RESIST A HORIZONTAL FORCE EQUAL TO ONE-THIRD OF THE OPERATING WEIGHT 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: MERE WALER HEALEN OK HOL MALEN SICKAGE HANDS ARE HOL MALEN HIN REMOTE LOCATIONS SICH 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 WOULD 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 HO 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 AC A COMBINATION PRESSURE-AND-TEMPERATURE-RELIEF VALVE AC A COMBINATION PRESSURE-AND-TEMPERATURE-RELIEF VALVE SHALL HAVE A MINIMUM RATED CAPACITY FOR THE EQUIPMENT SERVED AND SHALL CONFORM TO ANSI 221.22. THE RELIEF VALVE SHALL NOT BE USED AS A MEANS OF CONTROLLING THERMAL EXPANSION.
- THE WATER SUPPLY TO A DISHWASHER SHALL BE PROTECTED AGAINST BACKFLOW BY AN AIR GAP COMPLYING WITH ASME AII2.1.9 OR AII2.1.2 THAT IS INSTALLED INTEGRALLY WITHIN THE MACHINE OR A BACKFLOW PREVENTER IN ACCORDANCE WITH THE NC-R.
- 27. SINK AND DISHWASHER, THE COMBINED DISCHARGE FROM A DISHWASHER AND A ONE- OR THO-COMPARIMENT SINK, NITH OR NITHOUT A FOOD-WASTE DISPOSER SHALL BE SERVED BY A TRAP OF NOT LESS THAN 11/2 INCHES (38 MM) IN OUTSIDE DIANETER. THE DISHWASHER DISCHARGE PIPE OR TUBING SHALL RISE TO THE UNDERSIDE OF THE CONTER AND SHALL BE SECURELY FASTENED TO THE UNDERSIDE OF THE SINK RIM OR CONTER BEFORE. CONNECTING TO THE HEAD OF THE FOOD-WASTE DISPOSER OR TO A MYE 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 BELOW 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. В.
- OUTDOORS C.

6.

B

- CRANL SPACES. WHERE THE CRAWL 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
- 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, BURROCH, BEDROCH, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DWELLING WITS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO FONT ALONG THE FLOOR LINE IN ANY MALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLUDING ANY WALL SPACE 2 FEET OR MORE IN WIDTH (INCLUDING SPACE WALL SPACE 2 FIET OR MORE IN WIDTH (INCLUDING SPACE MEASURED KROUND CORNERS) AND UNBROKEN ALONG THE FLOOR LINE BY DOORWAYS AND SIMILAR OPENINGS, FIREPLACES, AND FIXED CABINETS, AND THE WALL SPACE OCCUPIED BY FIXED PANELS IN EXTERIOR WALLS, BUT EXCLUDING SLIDING FANELS IN EXTERIOR WALLS. THE WALL SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING BAR-TYPE CONTERS OR RALLINGS, SHALL BE INCLUDED IN THE 6 FOOT MEASUREMENT.
- IN THE KITCHEN PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR IN THE KITCHEN, FANILY, DREAK-AST ROOM, JUNING ROOM, OK SIMIL AREA OF A DWELLING 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. THE TWO OF MORE SMALL-APPLIANCE BRANCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- IN KITCHENS, PANTRIES, BREAKFAST ROOMS, DINING ROOMS AND SIMILAR AREAS OF DWELLING UNITS, RECEPTACLE OUTLETS FOR COUNTER SPACES SHALL BE INSTALLED IN ACCORDANCE WITH TH FOLLOWING: 10.
- A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTER SPACE IZ INCHES OR WIDER. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24 INCHES MEASURED HORIZONTALLY FROM A RECEPTACLE OUTLET IN THAT SPACE. (I)

### 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 FENNIQULAR COUNTER SPACE WITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER, A PENNIQULAR COUNTERTOP IS MEASURED FROM CONNECTING 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) ABOVE: IF A KANGE, CONTENDATION CONCINE WIT, ON SINK IS INSTALLED IN AN ISLAND OR PENNBULAR CONTENTOR AND THE DEPTH OF THE CONTENDED THE ITEM IS LESS THEN IS INCHES IT WILL BE CONSIDERED TO DIVIDE THE CONTENTOR SPACE INTO THO SEPARATE CONTENTOR SPACES. EACH CONTENTOR SPACE SHALL COMPLY WITH APPLICABLE REGULARMENTS.
- RECEPTACLE OUTLETS SHALL BE LOCATED NOT MORE THAN 20 INCHES ABOVE THE COUNTERTOP, RECEPTACLE OUTLETS RENDERED NOT READLY ACCESSIBLE BY APPLIANCES FASTENED IN PLACE, APPLIANCE GARASES, SINKS, OR RAINSETOPS 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 BACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED IN WALL OR PARITITION THAT IS ADJACENT TO THE BASIN OR BASIN CONTERTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET NOT MORE HAN 12" BELOW THE COUNTERTOP
- 12. IN DWELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN AREAS DESIGNATED FOR THE INSTALLATION OF LAUNDRY EQUIPMENT
- IN EACH ATTACHED GARAGE AND IN EACH DETACHED GARAGE WITH ELECTRIC POWER, THE BRANCH CIRCUIT SUPPLYING THIS RECEPTACLE(S) SHALL NOT SUPPLY OTLETS OUTSIDE OF THE GARAGE. AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN EACH VEHICLE BAY. 13.
- CABLE- OR RACEWAY-TYPE WIRING METHODS INSTALLED IN A GROOVE, TO BE COVERED BY WALLBOARD, SIDING, PANELING, CARPETING, OR SIMILAR FINISH, SHALL BE PROTECTED BY 1/01 INCH THICK STEL, PLATE, SLEEVE, OR EQUIVALENT OR BY NOT LESS THAN 1-1/4 INCH FREE SPACE FOR THE FULL LENSTH OF THE GROOVE IN WHICH THE CABLE OR RACEW IS INSTALLED.
- 15. RECEPTACLES IN DAMP OR WET LOCATIONS.
- A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED A RECEIVED INSTALLED SUBJOARD IN A BOSHIGH FOR AUTON FROM NEATHER OR IN OTHER DAMP LOCATIONS SHALL HAVE AN ENCLOSURE FOR THE RECEIVED LATTAL IS MEATHER ROOP WHEN THE RECEIVED LIS COVERED. (ATTACHMENT PLUS CAP NOT INSERTED AND RECEPTACLE COVERS CLOSED.)
- ALL 15- AND 20- AMPERE, 125- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHER FROOF WHETHER OR NOT THE ATTACHMENT PLUS CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUTY". ALL 15- AND 20- AMPERE, 125- AND 250-VOLT NONLOCKING RECEPTACLES SHALL BE LISTED WEATHER RESISTANT TYPE. B.
- 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 ORDANCE WITH NEC
- ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS 18. ALL 120-VOLT, SINGLE PHASE, IS- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OF DEVICES INSTALLED IN DWELLING WIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DARLORS, LIBRARIES, DENS, BEDROMS, SUNROMS, RECREATION ROOMS, CLOSETS, HALLMAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTERS), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. THE ARC-FAULT CIRCUIT INTERRUPTES 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.

TAMPER-RESISTANT RECEPTACLES IN DWELLING UNITS IN ALL AREAS. ALL NON-LOCKING TYPE I25-VOLT I5-AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS LISTED BELOW:

I. RECEPTACLES LOCATED MORE THAN 51 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 UNLESS THE PLUG RECEPTACLE COMBINATION IS A NOSTANDARED CONFIGURATION TYPE THAT IS SPECIFICALLY LISTED AND IDENTIFIED FOR EACH SUCH NUMBER COMBINETORIES.

SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE ED MANUEACTURER'S INSTRUCTIONS AND NO-R RSI ALL SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND TH HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NFPA 72.

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 AUDIEL NOTFICATION DEVICE INSTALLED AS REQUIRED BY THE NC-R R3H3 FOR SMOKE ALARMS, SHALL BE PERMITTED. THE HOUSEHOLD FIRE ALARM SYSTEM SHALL PROVIDE THE SAME LEVEL OF SMOKE DETECTION AND ALARM AS REQUIRED BY THE NC-R FOR SMOKE ALARMS IN THE EVENT THE FIRE ALARM PANEL IS REMOVED OR THE SYSTEM IS NOT CONNECTED TO A CENTRAL STATION.

HIS CODE AND THE

21.

2

UNIQUE COMBIN SMOKE DETECTORS

2. RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE.

3. A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES LOCATED MITHIN 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.

# 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 FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM & CARBON MONOXIDE ALARM SHALL BE INSTALLED WITHIN THE BEDROOM.

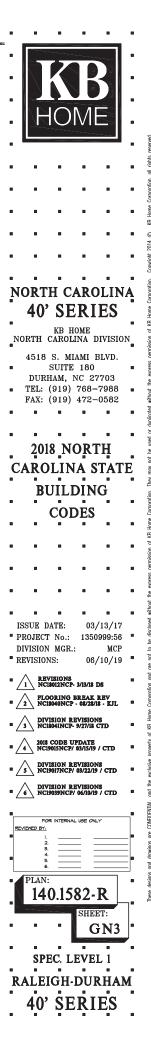
SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING WITH UL 2084 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NC-R R315 AND THE MANUFACTURERS NSTALLATION INSTRUCTIONS.

#### 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



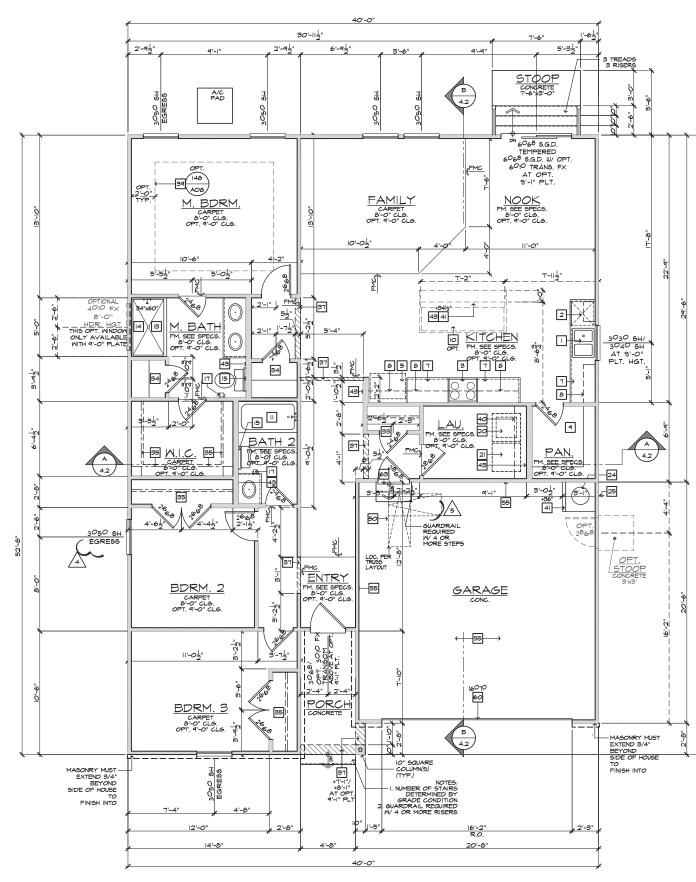


	SQUARE FOOTA	GE	
	PLAN 140. 1582-1	R	
FLOOR AREA		1582	
TOTAL AREA		1582 9	5Q. FT.
GARAGE AREA		417	SQ. FT.
PORCH AREA(S)			
	ELEVATION 'A'	52	SQ. FT.
	ELEVATION 'B'	36	SQ. FT.
	ELEVATION 'C'	44	SQ. FT.
	ELEVATION 'D'	64	SQ. FT.
PATIO AREA(S)			
	IO'XIO' COVERED	100	SQ. FT.
	25'x10' EXT. COVD.	250	SQ. FT
DECK AREA(S)			
	12'XI2' DECK	124	SQ. FT.
	12'X25' ENL. DECK	250	SQ. FT.
	PLATE NOTI	3 <b>S</b>	2018 N.GR
ź	3'-I" PLATE NO	)TES	4
<ul> <li>ENTRY DOOR H</li> </ul>	DOW HDR. HEIGHT: EIGHT: DOOR HEIGHT: IT HEIGHT:	6'-8" U.N.O. 7'-0" U.N.O. 6'-8" U.N.O. 6'-8" (TEMP.) 7'-4" U.N.O. 6'-8" U.N.O.	
(	9'-I" PLATE NO	TES	
<ul> <li>4010 WINDOW C</li> <li>ENTRY DOOR H</li> </ul>	DOOR HEIGHT: IT HEIGHT:		1

GENERAL PLAN NOTES
ALL CEILING HEIGHTS PER SECTION AND ELEVATION PLATE HEIGHTS, U.N.O.
ALL INTERIOR DOORS TO BE HOLLOW CORE   3/8" THICK, U.N.O. (REFER TO PLAN FOR SIZE).
ALL GARAGE SERVICE DOORS TO BE HOLLOW CORE EXTERIOR GRADE (REFER TO PLAN FOR SIZE).
ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RATED

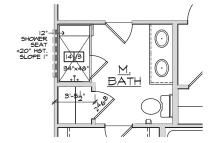
ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RAT (REFER TO PLAN FOR SIZE). ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE I 3/4" THICK (REFER TO PLAN FOR SIZE).

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



### FIRST FLOOR PLAN 'A' W/ CRAWL SPACE

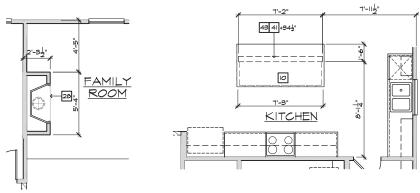
#	FLOOR PLAN NOTES	
١.	SINK WITH GARBAGE DISPOSAL - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
_		
2.	DISHWASHER - PROVIDE SURFACE MOUNT AIR GAP VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	
З.	SLIDE-IN RANGE/ OVEN COMBINATION W BUILT-IN LIGHT & FAN (VENT TO OUTSIDE AIR) - VERIFY WITH MANUFACTURER SPEC'S.	
4.	36" COCKTOP - W BUILT-IN HOOD WILIGHT & 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.	DOUBLE OVEN - VERIFY WITH MANUFACTUER SPEC'S.	
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	
п.	TUB/SHOWER COMBINATION WITH 12" FIBERGLASS ENCLOSURE	
	(NON-ABSORBENT) VERIFY DIMENSIONS WITH MFR'S 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	
	NOT USED	
17.	TOILET PAPER HOLDER	NORTH CAROLINA
	EXTEND VANITY - REFER TO INTERIOR ELEVATIONS	40' SERIES
	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
		4518 S. MIAMI BLVD.
		SUITE 180
23.	FREE STANDING LAUNDRY SINK - VERIFY DIMENSIONS WITH MFR'S SPEC'S.	DURHAM, NC 27703
24.	ELECTRIC WATER HEATER - LOCATE ON 18" HIGH	TEL: (919) 768-7988
	FRAMED PLATFORM	FAX: (919) 472-0582
25.	TEMPERATURE AND PRESSURE RELIEF VALVE DRAIN TO EXTERIOR - MIN. 6" ABOVE & MAX. 24" ABOVE GRADE	
26.	NOT USED	
27.	NOT USED	
28.	PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED	2018 NORTH
	PER MANUFACTURERS INSTRUCTIONS	
29.	NON-COMBUSTIBLE HEARTH MATERIAL	CAROLINA STATE
30.	ROUTE OF FIREPLACE "B" VENT FROM BELOW -	
	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	
	WARDROBE WITH SHELF & POLE - DETAIL 73/AD4 U.N.O.	
36.	MEDIA NICHE - REFER TO INTERIOR ELEVATIONS	
37.	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	ISSUE DATE: 03/13/17
	LOCATION OF PLUMBING WASTE DROP FROM ABOVE	<sup>®</sup> PROJECT No.: 1350999:56
	2x6 WALL	DIVISION MGR.: MCP
	2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	• REVISIONS: 06/10/19
	DOUBLE 2x4 WALL	
	LINE OF FLOOR ABOVE	REVISIONS 1 NCIS012NCP- 3/13/18 DS
	LINE OF FLOOR BELOW	FLOORING BREAK REV
	EXTERIOR RAIL	* 2 NCI8040NCP · 08/28/18 · KJL
	F.A.U. VENT TO OUTSIDE AIR	∧ DIVISION REVISIONS
	22"x54" ATTIC ACCESS W/ STAIRS	* <u>3</u> NCI804INCP- 9/27/18 CTD
51.	F.A.U. IN ATTIC - PROVIDE MIN. 22"X30" ATTIC ACCESS PANEL - PROVIDE FUEL GAS. REFER TO UTILITY PLAN	
	DETAIL 88/AD5	* 4 NC19015NCP/ 03/15/19 / CTD *
	DUCT CHASE - DETAIL 89 \$ 90/AD5 - REFER TO MECH. PLAN	
53.	RETURN AIR GRILL (R.A.G.) - REFER TO MECHANICAL PLAN	• <u>5</u> NC19017NCP/ 03/22/19 / CTD
54.	1/2" GYPSUM BOARD ON CEILING AND WALLS AT	DIVISION REVISIONS
	USEABLE SPACE UNDER STAIRS	ACDUSTICE VOINT CID
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 5%" TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING, PROVIDE (1) LAYER OF 54"	REVIENED BY:
	SECOND FLOOR AND GARAGE CEILING: PROVIDE (I) LAYER OF 1/2" GYPSUM BOARD	2 3
57.	EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT	4 a
		6
58.	NOT USED	PLAN:
59.	NOT USED	140.1582-R
		· · · · · · · · · · · · · · · · · · ·
60.	SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION	SHEET:
	NOT USED	
62.	DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 SQUARE FEET. DIVIDED SPACES MUST BE	
	ROUGHLY EQUAL.	
63.	OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 13/6-INCH THICK, OR SHALL BE 20-MINITE FIRE RATED. DOORS SHALL BE	<b>SPEC.</b> LEVEL $1 \angle 1$
	OR SHALL BE 20-MINUTE FIRE RATED. DOORS SHALL BE WEATHERSTRIPPED	
	NOTE:	RALEIGH DURHAM
	INFORMATION NOT SHOWN HERE.	40' SERIES
		HV SERIES



DELUXE M. BATH At magter bath

 FLOOR
 PLAN
 OPTIONS

 SCALE:
 1/4"=1"-0"
 1/8"=1"-0"
 (||"x17")



ISLAND

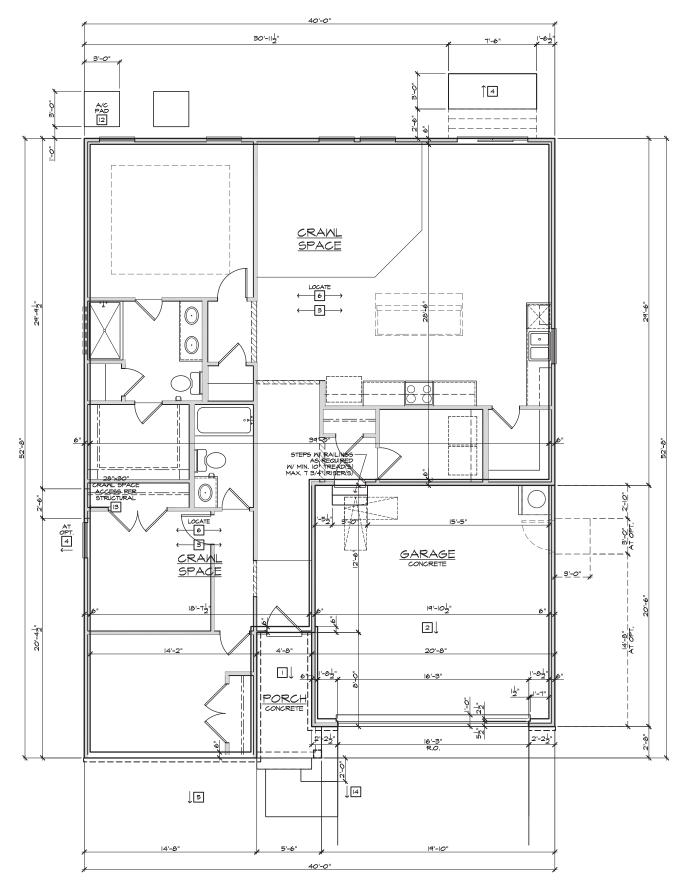
FIREPLACE AT FAMILY ROOM

AT KITCHEN

•

#	FLOOR PLAN NOTES						
١.	SINK WITH GARBAGE DISPOSAL - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.	8		·			
2.	DISHWASHER - PROVIDE SURFACE MOUNT AIR GAP VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S.			7			
з.	SLIDE-IN RANGE/ OVEN COMBINATION W BUILT-IN LIGHT & FAN (VENT TO OUTSIDE AIR) - VERIEV WITH MANUFACTURER SPEC'S.	8					8
4.						21	
	36" COOKTOP - W BUILT-IN HOOD WLIGHT & FAN. (VENT TO OUTSIDE AIR) - CABINET MOUNTED MICROWAVE INCLUDED OVEN WITH VENT - VERIFY WITH MANUFACTURER SPEC'S.	_		-OF	M		_
5.	39" CLEAR REFRIGERATOR SPACE - PROVIDE PLUMBING FOR ICEMAKER (RECESSED IN WALL).		- <u>`</u>				
6. 7.	DOUBLE OVEN - VERIFY WITH MANUFACTUER SPEC'S. BASE CABINETS - REFER TO INTERIOR ELEVATIONS	8					
г. 8.	UPPER CABINETS - REFER TO INTERIOR ELEVATIONS						8
প.	PANTRY - SHELVES PER SPEC						
ю. II.	ISLAND CABINET - REFER TO INTERIOR ELEVATIONS TUB/SHOWER COMBINATION WITH 72" FIBERGLASS ENCLOSURE	8		8	•		
	(NON-ABSORBENT) VERIFY DIMENSIONS WITH MFR'S SPEC'S.						
12. 13.	OVAL TUB - VERIFY DIMENSIONS WITH MANUFACTURER SPEC'S. SHOWER PAN WITH MAINSCOT TO 84" - VERIFY DIMENSIONS		_	_	_	_	-
14.	WITH MANUFACTURER SPEC'S. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE			•	•	•	
15.	TOWEL BAR			8	•	•	
	NOT USED						8
17.	TOILET PAPER HOLDER	N	ORT	H C	ARC	)LIN	Í <b>A</b>
18. 19.	EXTEND VANITY - REFER TO INTERIOR ELEVATIONS OPTIONAL SINK	8		' SE			
	PROVIDE WATER AND WASTE FOR WASHER (WASHER	•	τv			LU	
21.	CONTROL VALVES) (RECESSED IN WALL) DRYER VENT	N	ORTH	KB H CAROL		oivisio	N_
	NOT USED	•	4518	S. MI	AMI	BLVD.	-
	FREE STANDING LAUNDRY SINK - VERIFY DIMENSIONS			SUITE	180		•
24.	WITH MFR'S SPEC'S. ELECTRIC WATER HEATER - LOCATE ON 18" HIGH			HAM, 1 (919)			
25.	FRAMED PLATFORM			(919)			
	TEMPERATURE AND PRESSURE RELIEF VALVE DRAIN TO EXTERIOR - MIN. 6" ABOVE & MAX. 24" ABOVE GRADE	8				•	8
	NOT USED NOT USED						
28.	PRE-MFR. METAL GAS APPLIANCE FIREPLACE INSTALLED PER MANUFACTURERS INSTRUCTIONS	_	20	18_N	OR 7	ΓH	_
		C		) LIN			Έ
	NON-COMBUSTIBLE HEARTH MATERIAL ROUTE OF FIREPLACE "B" VENT FROM BELOW -	•					-
	PROVIDE O.S.B. SHAFT +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5		B	UILI	DIN	G	
	+34" - +38" HIGH HANDRAIL DETAIL 83/AD5	-	-	COI	DĒS	-	-
	COATS WITH SHELF & POLE - DETAIL 73/AD4	8	•		•	•	8
	LINEN - SHELVES PER SPEC WARDROBE WITH SHELF & POLE - DETAIL 73/AD4 U.N.O.						
	MEDIA NICHE - REFER TO INTERIOR ELEVATIONS						
	FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT	8		•		•	8
	NOT USED LINE OF CEILING BREAK	8			•		8
	INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT.	_	_	_	_	_	_
41.	LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4	-	SSUE	DATE:	03.	/13/17	
	LOCATION OF PLUMBING WASTE DROP FROM ABOVE 2x6 WALL			T No.:		9999:56	8
	2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	-	OIVISIO REVISIO	N MGR.		MCP /10/19	-
	DOUBLE 2x4 WALL	г			00,	/10/19	
	LINE OF FLOOR ABOVE LINE OF FLOOR BELOW	•		VISIONS	3/13/18	DS	
48.	EXTERIOR RAIL	• /	2 FL	OORING	BREAK • 08/28/	REV 18 - KJL	8
	F.A.U. VENT TO OUTSIDE AIR	_	 DI	VISION R	EVISIO	15	_
	22"x54" ATTIC ACCESS W STAIRS F.A.J. IN ATTIC - PROVIDE MIN, 22"x30" ATTIC ACCESS PANEL - PROVIDE FUEL GAS, REFER TO UTILITY PLAN	" /	<u> </u>	18041NCP-		CTD	
	DETAIL 88/AD5	• ∠	4 201 NC	I CODE U 19015NCP/	PDATE 03/15/19	/ CTD	8
	DUCT CHASE - DETAIL 89 \$ 90/AD5 - REFER TO MECH. PLAN RETURN AIR GRILL (R.A.G.) -			VISION R	EVISIOI	NS / CTD	
	REFER TO MECHANICAL PLAN	Z	<u> </u>	VISION R			
	1/2" GYPSUM BOARD ON CEILING AND WALLS AT USEABLE SPACE UNDER STAIRS	• 2		19039NCP	06/10/19	) / CTD	
55.	THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN $i_2^{\prime\prime}$ GYPSUM BOARD APPLIED TO THE GARAGE SIDE	8		OR INTERNA		LY	
56.	SEPARATION BETWEEN SECOND FLOOR AND GARAGE CEILING: PROVIDE (1) LAYER OF \$%" TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CEILING: PROVIDE (1) LAYER OF ½"	8	IVIEWED BY	L	ON		
	(1) LATLEN OF AND GARAGE CEILING: PROVIDE (1) LAYER OF 1/2" GYPSUM BOARD			2	= =		=
57.	EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT	8	:	4 5 6	= =		_ *
58.	NOT USED		PLAN				
59.	NOT USED	$\setminus$	14	0.15	82-	<b>R</b>	
60.	SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION				SHE		"[
61.	NOT USED			8		1.3	<b>}-</b>
62.	DRAFTSTOP REQUIRED IN FLOOR / CEILING SPACES EXCEEDING 1000 SQUARE FEET, DIVIDED SPACES MUST BE ROUGHLY EQUAL.						
63.		-	SP	EC. L	EVE	L 1 4	$\overline{\Delta}$
	OPENINGS BETWEEN GARAGE AND HOUSE SHALL BE EQUIPPED WITH SOLID MOOD DOORS NOT LESS THAN I 3/8-INCH THICK, OR SHALL BE 20-MINUTE FIRE RATED. DOORS SHALL BE WEATHERSTRIPPED	a D		ГСН	ייזת		M
	NOTE: FOR ALL PLAN OPTIONS REFER TO BASIC PLAN FOR	л •		IGH		хпА. _":	a .
	INFORMATION NOT SHOWN HERE.		<b>40</b>	' SE	RI	ES	
			8		8		8

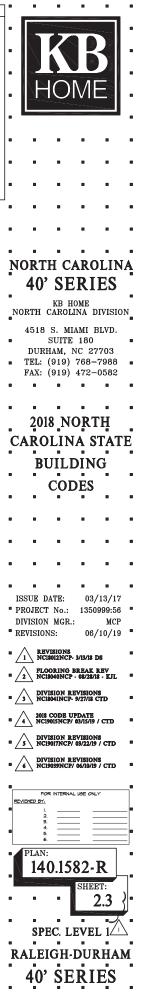
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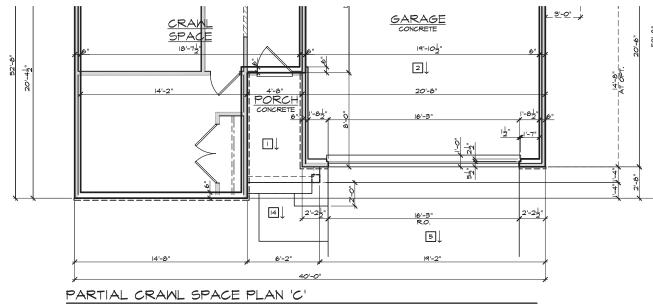


 CRAML SPACE PLAN 'A'

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

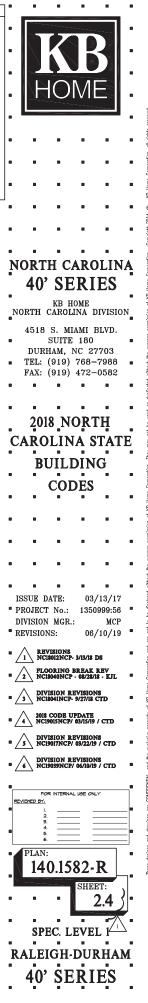
#	FOUNDATION PLAN NOTES	
NO	TE: NOT ALL KEY NOTES APPLY.	1
<u>ь</u>	CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.	
2.	CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER. 1'-0" MIN. TOWARD DOOR OPENING.	
З.	FOUNDATION PER STRUCTURAL.	L
4.	STAIR LANDING: 36"x36" MIN.	L
5.	CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.	
6.	PROVIDE UNDER FLOOR VENTILATION	
7.	4" TOE KICK FOR MASONRY VENEER.	L
8.	3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.	
٩.	REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.	
10.	VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL	
11.	4" MIN. 7 3/4" MAX. TO HARD SURFACE.	L
12.	A/C PAD. VERIFY LOCATION.	
13.	CRAWL SPACE ACCESS	L
14.	36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.	

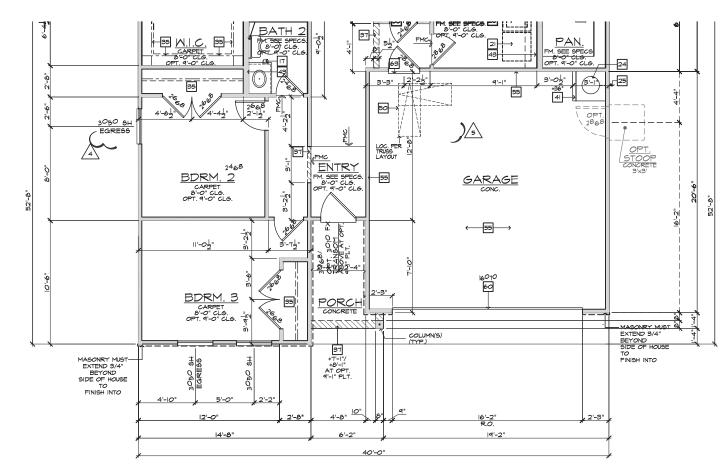




SCALE |/4"=I'-0" (22"X34") - |/8"=I'-0" (||"X|7")

FOUNDATION PLAN NOTES
TE: NOT ALL KEY NOTES APPLY.
CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.
CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER. 1'-0" MIN. TOWARD DOOR OPENING.
FOUNDATION PER STRUCTURAL.
STAIR LANDING: 36"x36" MIN.
CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
PROVIDE UNDER FLOOR VENTILATION
4" TOE KICK FOR MASONRY VENEER. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH
WITH MIN. 12" EMBEDMENT INTO CONCRETE.
REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL
4" MIN. 7 3/4" MAX. TO HARD SURFACE.
A/C PAD. VERIFY LOCATION.
CRAWL SPACE ACCESS
36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.



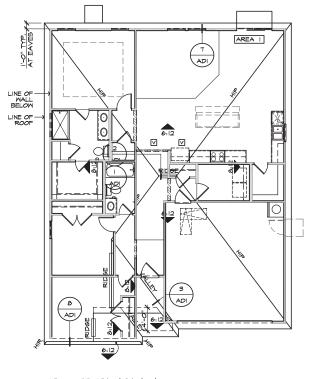


PARTIAL FIRST FLOOR PLAN 'C'

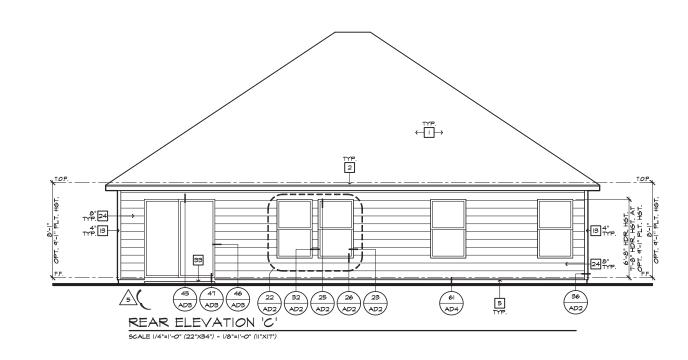
#         PARTIAL PLAN NOTES	
NOTE: NOT ALL KEY NOTES APPLY.	8
31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5	
37. FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT 38. NOT USED	
39. LINE OF CEILING BREAK	
40. INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT.	
41. LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 72/AD4	
43. 2×6 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" SYPSUM BOARD APPLIED TO THE GARAGE SIDE	
56. SEPARATION PETWEEN SECOND FLOOR AND GARAGE CELLING: PROVIDE (I) LATER OF 5% TYPE "X" GYPSUM BOARD, MALLS SUPPORTING SECOND FLOOR AND GARAGE CELLING: PROVIDE (I) LATER OF 1/3" GYPSUM 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
	4518 S. MIAMI BLVD.
	<ul> <li>SUITE 180</li> <li>DURHAM, NC 27703</li> </ul>
	<ul> <li>TEL: (919) 768-7988</li> </ul>
	FAX: (919) 472-0582
	2018 NORTH
	CAROLINA STATE
	BUILDING
	CODES
	ISSUE DATE: 03/13/17
	PROJECT No.: 1350999:56 DIVISION MGR.: MCP
	<ul> <li>REVISIONS: 06/10/19</li> </ul>
	REVISIONS
	1 NCI8012NCP- 3/13/18 DS
	E 2 FLOORING BREAK REV NCI8040NCP · 08/22/13 · KJL
	DIVISION REVISIONS
	<u>4</u> NC190I5NCP/ 03/15/19 / CTD <u>5</u> DIVISION REVISIONS <u>5</u> NC190I7NCP/ 03/22/19 / CTD
	DIVISION REVISIONS     NC19039NCP/ 06/10/19 / CTD
	FOR INTERNAL USE ONLY REVIEWED BY:
	8 4 5
	6.
	PLAN:
	140.1582-R
	SHEET: 3.C1
	5.01
	SPEC. LEVEL 1
	RALEIGH-DURHAM
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE	40' SERIES

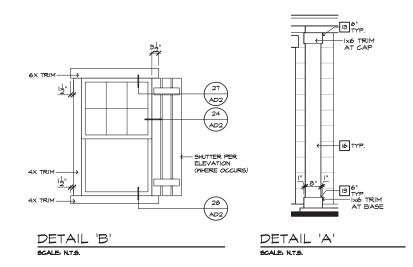
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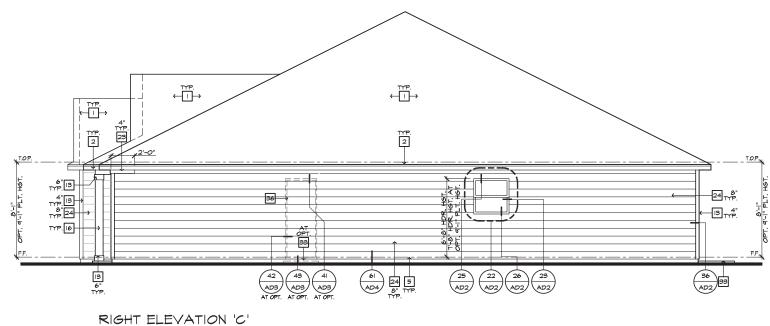




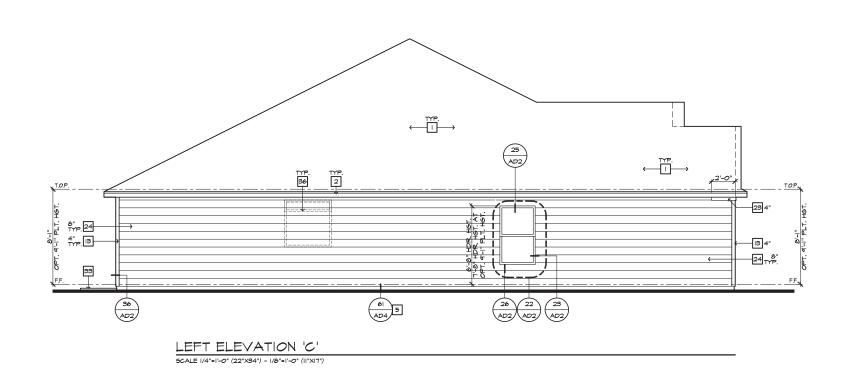




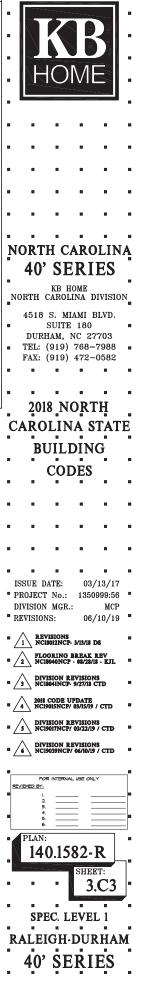
# ELEVATION NOTES 2019 NG-R	
NOTE: NOT ALL KEY NOTES APPLY.	
I. ROOF MATERIAL - REFER TO ROOF NOTES	
2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 3. G.I. FLASHING	
4. G.I. FLASHING & SADDLE/CRICKET	
5. G.I. DRIP SCREED 6. 24"x24" CHIMNEY	
7. DECORATIVE VENT 8. DECORATIVE CORBEL	HOME
9. DECORATIVE CORBEL 9. DECORATIVE SHUTTERS	
IO. PEDIMENT. SEE ELEVATION FOR TYPE II. RECESSED ELEMENT	
12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE	-
13. TRIM - 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	
IT. SHAKE SIDING	
<ul><li>18. STONE VENEER PER SPECS</li><li>19. BRICK/MASONRY VENEER PER SPECS</li></ul>	
20. BUILT UP BRICK COLUMN	
21. SOLDIER COURSE	
22. ROWLOCK COURSE 23. FRIEZE BOARD	
24. SIDING W/ 4" CORNER TRIM PER SPECS	
25. P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE 26. PRE-FAB DECORATIVE TRIM	NORTH CAROLIN
27. LIGHT WEIGHT PRECAST STONE TRIM	8
28. RAILINGS (+36" U.N.O.) 29. VINYL WRAP	40' SERIES
30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE	P HOME
ELEVATION FOR SIZE. 31. BRACKET OR KICKER - FYPHON OR EQ.	KB HOME NORTH CAROLINA DIVISIO
32. ENTRY DOOR 33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.	4518 S. MIAMI BLVD.
33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN. 34. SECTIONAL GARAGE DOOR PER SPECS	a518 S. MIAMI BLVD. ■ SUITE 180
35. ALUMINUM WRAP 36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS	DURHAM, NC 27703
37. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS 37. OPTIONAL STANDING SEAM METAL ROOF	<ul> <li>TEL: (919) 768-7988</li> </ul>
38. KEYSTONE	FAX: (919) 472-0582
39. SOLDIER CROWN 40. JACK SOLDIER COURSE	
41. WATER TABLE 42. ATRIUM DOOR	
43. PILASTER - SEE ELEVATION FOR TYPE	2018_NORTH
ROOF PLAN NOTES 'C'	
	CAROLINA STAT
6:12 AND DIRECTION, U.N.O.	BUILDING
ROOF MATERIAL: COMPOSITION SHINGLE 12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O.	
12 (INCHES) TYPICAL ROOF OVERHANG AT RARE, U.N.O. 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O.	CODES
LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARWALL PANELS.	
ATTIC VENT CALCULATIONS	
PROVIDE I 50, IN OF VENTILATION PER 300 50, IN OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% \$ NO MORE THAN 80% OF	
THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS	
LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING) AT 3'-0" ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED BY EAVE VENTS, (LOW VENTINS) (2016 N.CR & 66.2)	
BY EAVE VENTS, (LOW VENTINS) (2016 N.CR 806.2) * CALCULATION BY 1/150, HIGH/LOW VENTING NOT REQUIRED. APPROXIMATE RIDGE VENT LOCATIONS SHOWN.	
ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.	
AREA L / MAIN VENTILATION REQUIRED:	ISSUE DATE: 03/13/17
AREA I / MAIN VENTILATION REQUIRED: ATTIC AREA 2047 SQ. FT. / 300 = 6,6 SQ. FT. X 144 = 979,2 SQ. IN.	ISSUE DATE: 03/13/17 PROJECT No.: 1350999:56
AREA I / MAIN VENTILATION REQUIRED: ATTIC AREA 2047 SQ. FT. / 300 = 6,8 SQ. FT. X 144 = 4742 SQ. IN. X 50% = 4846 SQ. IN.	
AREA I / MAIN           VENTILATION REQUIRED:           ATTIC AREA           2047           SQ. FT. / 300 =           6.0           SQ. FT. / 300 =           6.0           VENTILATION REQUIRED:           X 144 =           9712           SQ. FT.           X 144 =           9712           SQ. IN.           X 50% =           484.6           SQ. IN.           HGH           14) LIN. FEET OF RIDGE VENT AT (16 SQ. IN/FOOT) =           252         SQ. IN.	PROJECT No.: 1350999:56
AREA I / MAIN           VENTILATION REQUIRED:           ATTIC AREA           2047           SQ. FT. / 300 =           6.6           SQ. FT. / 300 =           X 144 =           9712           SQ. FT. / 300 =           X 50% =           4912           SQ. IN.           X 50% =           4914           SQ. IN.           X 50% =           4914           SQ. IN.           X 50% =           4010           FET OF RIDGE VENTAT (16 50. IN. EA.) =           2014           2015           SQ. IN. IN. EA.) =           2026           2030. IN. IN. EA.) =           204	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> </ul>
AREA I / MAIN           VENTILATION REQUIRED:           ATTIC AREA           2047           SQ. FT. / 300 =           6.8           MATIC AREA           2047           SQ. FT. / 300 =           6.8           SQ. FT. / 300 =           414 =           9742           SQ. FT. / 300 =           6.8           SQ. IN.           X 50% =           4.10           HEH           HEH           1(4) LIN. FEET OF RIDGE VENT AT (18 SQ. IN./FOOT) =           2.2           5.4.4 SQ. IN. EA.) =           2.80 SQ. IN.           SUB-TOTAL LOW VENTILATION:	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> </ul>
AREA I / MAIN           VENTILATION REQUIRED:           ATTIC AREA           2047           SQ. FT. / 300 =           6.8           MATIC AREA           2047           SQ. FT. / 300 =           6.8           SQ. FT. / 300 =           4712           SQ. IN.           X 50% =           4916           HHH           HHH           1(4)           1(2)           500           SQ. IN. FEET OF RIDGE VENT AT (16 SQ. IN. FA0) =           225           500           SQ. IN.           SQ. IN.           SQ. IN.           SQ. IN.           SQ. IN.           SQ. IN. FEET OF VENTILATED SOFFIT (5 SQ. IN. FA0.           600           IN. FEET OF VENTILATED SOFFIT (5 SQ. IN. FA0.           500         SQ. IN.	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> <li>REVISIONS</li> </ul>
AREA I / MAIN           VENTILATION REQUIRED:           ATTIC AREA           2047           SQ. FT. / 300 =           x 164 =           412           SQ. FT. / 300 =           x 164 =           412           SQ. FT. / 300 =           x 164 =           YENTILATION PROVIDED:           HIGH           (14) LIN FEET OF RIDGE VENT AT (16 SQ. IN./FOOT) =           (2) 5-144 ROOF VENTICS) AT (144 SQ. IN. EA) =           SUB-TOTAL LOW VENTILATION:           (10) LIN FEET OF VENT(S) AT (144 SQ. IN. FOOT) =           (10) LIN FEET OF VENT(S) AT (144 SQ. IN. FOOT) =           (10) SQL-104 ROOF VENT(ATC) SOFIT (5 SQ. IN./FOOT) =           SQL-104 LOW VENTLATION:           200 SQ. IN.           201 COLL LOW VENTLATION:	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> <li>1 REVISIONS</li> <li>1 REVISIONS</li> <li>2 FLOORING BREAK REV NCIMUNCF - 08/28/18 - EJL</li> </ul>
AREA I / MAIN           VENTILATION REQUIRED:           ATTIC AREA           2041           SQ. FT. / 300 =           6.6           SQ. FT. / 300 =           YENTILATION REQUIRED:           X 144 =           YENTILATION PROVIDED:           HIGH           (14) J.I.N. FET OF RIDGE VENT AT (16 SQ. IN, FA00) =           SUB-TOTAL LOW VENTILATION:           (2) J-144 ROOF VENTILATION:           (16) LIN FET OF VENTILATION:           (16) LIN FET OF VENTILATION:           (16) LIN FET OF VENTILATION:           SUB-TOTAL LOW VENTILATION:           BUB-TOTAL VENTILATION PROVIDED;	■ PROJECT No.: 1350999:56 DIVISION MGR.: MCP ■ REVISIONS: 06/10/19 ■
AREA I / MAIN           VENTILATION REQUIRED:           ATTIC AREA           2047           SQ. FT. / 300 =           6.6           SQ. FT. / 300 =           VENTILATION REQUIRED:           X 50% =           VENTILATION PROVIDED:           HIGH           III / H2 HA ROOF VENTILATION:           SUB-TOTAL LOW VENTILATION:           BUB-TOTAL LOW VENTILATION: <td></td>	
AREA I / MAIN           VENTILATION REQUIRED:           ATTIC AREA           2041           S0. FT. / 300 =           6.6           S0. FT. / 300 =           484.6           S0. FT. / 300 =           VENTILATION PROVIDED:           S0. FT. / 300 =           14 / LIN PET OF RIDGE VENT AT (16 S0. IN, FA) =           S0. S0. IN. EA) =           S0.0 IN. EA) =	PROJECT No.: 1350999:56     DIVISION MGR.: MCP     REVISIONS: 06/10/19 <u>1</u> REVISIONS: 06/10/19 <u>2</u> REVISIONE REVISIONS <u>2</u> REVISIONE REVISIONS <u>3</u> DIVISION REVISIONS <u>3</u> DIVISION REVISIONS
AREA I / MAIN           VENTILATION REQUIRED:           ATTIC AREA           2041           SQ. FT. / 300 =           6.6           SQ. FT. / 300 =           484.6           VENTILATION REQUIRED:           X50% =           484.6           14 ) LIN PET OF RIDGE VENTAT (16 SQ. IN. FA0 =           12 ) 5-144 ROOF VENT(S) AT (144 SQ. IN. FA1 =           160) LIN FET OF VENTILATION:           1600 SQ. IN. EA) =           1601 LIN FET OF VENTILATION:           1602 SQ. IN. EA) =           1603 LIN FET OF VENTILATION:           1604 SQ. IN. EA) =           1605 SQ. IN. EA) =           1606 SQ. IN. EA) =           1607 LIN FET OF VENTILATION:           1608 SQ. IN. EA) =           1609 SQ. IN. EA) =           1600 SQ. IN.           1600 SQ. IN. EA) =           1600 SQ. IN. EA) =           1600 SQ.	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> <li> <ol> <li>REVISIONS: 06/10/19</li> </ol> </li> <li> <ol> <li>REVISIONS: 06/10/19</li> <li></li></ol></li></ul>
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         SQ. FT. / 300 = 1243         6.8         SQ. FT. X 144 = 1712         SQ. IN. X 50% = 4491.6         SQ. IN. SQ. IN. FEDT OF RUTHLATED SOFFIT (5 SQ. IN. FGO.IN. SQ. IN. COT VENTILATION: IN THE SQ. IN. CO.IN. SQ. IN. ISUB-TOTAL LOW VENTILATION: IN 144 SQ. IN. EA. I = -50.0         SQ. IN.	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> <li> <ol> <li>REVISIONS: 06/10/19</li> </ol> </li> <li> <ol> <li>REVISIONS: 06/10/19</li> </ol> </li> <li> <ol> <li>REVISIONS: 06/10/19</li> </ol> </li> <li> <ol> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/20/19</li> <li>REVISIONS: NIJ/19 DS</li> <li>RCIG040NCP-06/28/18 + KIL</li> </ol> </li> <li> <li> <ol> <li>RCIG040NCP-06/28/18 + KIL</li> <li> <li>RCIG040NCP-07/28/18 + CTD</li> </li></ol> </li> <li> <li> <li>MCIG040NCP-08/15/9 + CTD</li> </li></li></li></ul> <li> <li> <ul> <li>RCIG001NCP(08/22/9) + CTD</li> <li> <li>NCIG001NCP(08/22/9) + CTD</li> </li></ul> </li> </li>
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         SQ. FT. / 300 = 1243         6.8         SQ. FT. X 144 = 1712         SQ. IN. X 50% = 4491.6         SQ. IN. SQ. IN. FEDT OF RUTHLATED SOFFIT (5 SQ. IN. FGO.IN. SQ. IN. COT VENTILATION: IN THE SQ. IN. CO.IN. SQ. IN. ISUB-TOTAL LOW VENTILATION: IN 144 SQ. IN. EA. I = -50.0         SQ. IN.	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> <li> <ol> <li>REVISIONS: 06/10/19</li> </ol> </li> <li> <ol> <li>REVISIONS: 06/10/19</li> <li></li></ol></li></ul>
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         SQ. FT. / 300 = 6.0         SQ. FT. / 300 = 4.0         SQ. IN. / 300 = 5.0         SQ. IN. / 300	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> <li> <ol> <li>REVISIONS: 06/10/19</li> </ol> </li> <li> <ol> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/20/19</li> <li>PLOORING BREAK REV NCIBHONCE: 9022/18 EVIL</li> <li>REVISION REVISIONS</li> <li>A016 CODE UPDATE</li> <li>A016 CODE UPDATE</li> <li>REVISION REVISIONS</li> <li>S DIVISION REVISIONS</li> <li>S DIVISION REVISIONS</li> <li>DIVISION REVISIONS</li> <li>DIVISION REVISIONS</li> <li>DIVISION REVISIONS</li> </ol></li></ul>
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         X 1041 =         911.2         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.         484.6         50. IN.           1(4) LIN FEET OF RIDGE VENT AT (18.90. IN.FOOT) =         252         50. IN.         50.0         50.0         IN. FOOT) =         260         50. IN.           SUB-TOTAL LOW VENTILATION:         50.0         11.0         50.0         IN.FOOT) =         500. S0. IN.           SUB-TOTAL LOW VENTILATION:         50.0         11.0         600         50. IN.         600         50. IN.           SUB-TOTAL LOW VENTILATION:         144 50. IN. FOOT) =         1540         50. IN.         600         50. IN.           SUB-TOTAL LOW VENTILATION:         144 50. IN. FOOT) =         1500         50. IN.         1100.0           SUB-TOTAL LOW VENTILATION:         ATTO PENNES         50.0 IN.         1104.0         600         50. IN	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> <li> <ol> <li>REVISIONS: 06/10/19</li> </ol> </li> <li> <ol> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/20/35</li> <li>REVISIONS: 06/20/35</li> <li>REVISIONS: 06/20/35</li> <li>RCIG0010CF: 02/20/35</li> <li>RCIG0010CF: 02/20/35</li> <li>RCIG0010CF: 02/20/35</li> <li>RCIG0010CF: 02/20/35</li> <li>RCIG0010CF: 02/20/35</li> <li>RCIG00100CF: 02/20/35</li> <li>RCIG001000CF: 02/20/35</li></ol></li></ul>
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         X 1041 =         911.2         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.         484.6         50. IN.           1(4) LIN FEET OF RIDGE VENT AT (18.90. IN.FOOT) =         252         50. IN.         50.0         50.0         IN. FOOT) =         260         50. IN.           SUB-TOTAL LOW VENTILATION:         50.0         11.0         50.0         IN.FOOT) =         500. S0. IN.           SUB-TOTAL LOW VENTILATION:         50.0         11.0         600         50. IN.         600         50. IN.           SUB-TOTAL LOW VENTILATION:         144 50. IN. FOOT) =         1540         50. IN.         600         50. IN.           SUB-TOTAL LOW VENTILATION:         144 50. IN. FOOT) =         1500         50. IN.         1100.0           SUB-TOTAL LOW VENTILATION:         ATTO PENNES         50.0 IN.         1104.0         600         50. IN	PROJECT No.: 1350999:56     DIVISION MGR.: MCP     REVISIONS: 06/10/19 <u>1</u> REVISIONS: 06/10/19 <u>1</u> REVISIONS: 06/10/19 <u>1</u> REVISIONS: 06/10/19 <u>1</u> REVISIONS BEAK REV <u>1</u> REVISIONS BEAK REV <u>1</u> REVISION REVISIONS
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         X 1041 =         911.2         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.         484.6         50. IN.           1(4) LIN FEET OF RIDGE VENT AT (18.90. IN.FOOT) =         252         50. IN.         50.0         50.0         IN. FOOT) =         260         50. IN.           SUB-TOTAL LOW VENTILATION:         50.0         11.0         50.0         IN.FOOT) =         500. S0. IN.           SUB-TOTAL LOW VENTILATION:         50.0         11.0         600         50. IN.         600         50. IN.           SUB-TOTAL LOW VENTILATION:         144 50. IN. FOOT) =         1540         50. IN.         600         50. IN.           SUB-TOTAL LOW VENTILATION:         144 50. IN. FOOT) =         1500         50. IN.         1100.0           SUB-TOTAL LOW VENTILATION:         ATTO PENNES         50.0 IN.         1104.0         600         50. IN	PROJECT No.: 1350999:56     DIVISION MGR.: MCP     REVISIONS: 06/10/19 <u>1</u> <u>REVISIONS</u> : 06/10/19 <u>1</u> <u>REVISIONS</u> : 06/10/19 <u>1</u> <u>1</u> <u>REVISIONS</u> : 06/10/19 <u>1</u> <u>1</u> <u>1 <u>NCIGOURCP-301/18</u> <u>15</u> <u></u></u>
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         X 1041 =         911.2         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.         484.6         50. IN.           1(4) LIN FEET OF RIDGE VENT AT (18.90. IN.FOOT) =         252         50. IN.         50.0         50.0         IN. FOOT) =         260         50. IN.           SUB-TOTAL LOW VENTILATION:         50.0         11.0         50.0         IN.FOOT) =         500. S0. IN.           SUB-TOTAL LOW VENTILATION:         50.0         11.0         600         50. IN.         600         50. IN.           SUB-TOTAL LOW VENTILATION:         144 50. IN. FOOT) =         1540         50. IN.         600         50. IN.           SUB-TOTAL LOW VENTILATION:         144 50. IN. FOOT) =         1500         50. IN.         1100.0           SUB-TOTAL LOW VENTILATION:         ATTO PENNES         50.0 IN.         1104.0         600         50. IN	PROJECT No.: 1350999:56     DIVISION MGR.: MCP     REVISIONS: 06/10/19 <u>1</u> REVISIONS: 06/10/19 <u>1</u> REVISIONS: 06/10/19 <u>1</u> REVISIONS BEAK REV <u>2</u> FLOORING BRAK REV <u>2</u> REVISION REVISIONS <u>3</u> DIVISION REVISIONS <u>4</u> 2018 CODE UPDATE <u>4</u> 2018 CODE UPDATE <u>5</u> DIVISION REVISIONS <u>5</u> DIVISION REVISIONS <u>6</u> DIVISION REVISIONS <u>7</u> POR INTERNAL USE ONLY <u>1</u> 2
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         X 1041 =         911.2         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.         484.6         50. IN.           1(4) LIN FEET OF RIDGE VENT AT (18.90. IN.FOOT) =         252         50. IN.         50.0         50.0         IN. FOOT) =         260         50. IN.           SUB-TOTAL LOW VENTILATION:         50.0         11.0         50.0         IN.FOOT) =         500. S0. IN.           SUB-TOTAL LOW VENTILATION:         50.0         11.0         600         50. IN.         600         50. IN.           SUB-TOTAL LOW VENTILATION:         144 50. IN. FOOT) =         1540         50. IN.         600         50. IN.           SUB-TOTAL LOW VENTILATION:         144 50. IN. FOOT) =         1500         50. IN.         1100.0           SUB-TOTAL LOW VENTILATION:         ATTO PENNES         50.0 IN.         1104.0         600         50. IN	PROJECT No.: 1350999:56     DIVISION MGR.: MCP     REVISIONS: 06/10/19     1     REVISIONS: 06/10/19     1     REVISIONS: 06/10/19     1     REVISIONS: 06/20/18     A     NCIBOLANCE- MIMIN DS     NCIBOLANCE- MIMIN DS     S     NCIBOLANCE- MIMIN S     S     DIVISION REVISIONS     POR INTERVAL USE ONLY     S
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           X 144 =         911.2         50. FT. / 300 =         6.8         50. FT.           X 164 =         911.2         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.           1.41         LIN FET OF RIDGE VENTAT (16.90. IN.FOOT) =         252         50. IN.           1.42         J 5-144 ROOF VENTILATION:         500. IN.FOOT) =         200 50. IN.           SUB-TOTAL LOW VENTILATION:         500. IN.FOOT) =         200 50. IN.         - 50. IN.           SUB-TOTAL LOW VENTILATION:         500.50. IN.FOOT) =         500. IN.         - 50. IN.           SUB-TOTAL LOW VENTILATION:         1940 50. IN.         1940 50. IN.         1940 50. IN.           SUB-TOTAL LOW VENTILATION:         1940 50. IN.         1940 50. IN.         1940 50. IN.           SUB-TOTAL LOW VENTILATION:         1940 50. IN.         1940 50. IN.         1940 50. IN.           SUB-TOTAL LOW VENTILATION:         INCOMENTILATION INFORMER TREASED TO MARCHINE MEDICONNARE SIGNARESION         1940 50. IN.	PROJECT No.: 1350999:56 DIVISION MGR.: MCP     REVISIONS: 06/10/19 <u>1</u> REVISIONS: 06/10/19 <u>2</u> PROJECT NO.: 1350999:56 <u>2</u> PROJECT NO.: 06/20/19     PROJECT NO.: 06/20     PROJECT NO.: 06/20/19     PROJECT NO.: 06/20/19     PROJECT NO.: 06/20     PR
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           X 144 =         911.2         50. FT. / 300 =         6.8         50. FT.           X 164 =         911.2         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.           1.41         LIN FET OF RIDGE VENTAT (16.90. IN.FOOT) =         252         50. IN.           1.42         J 5-144 ROOF VENTILATION:         500. IN.FOOT) =         200 50. IN.           SUB-TOTAL LOW VENTILATION:         500. IN.FOOT) =         200 50. IN.         - 50. IN.           SUB-TOTAL LOW VENTILATION:         500.50. IN.FOOT) =         500. IN.         - 50. IN.           SUB-TOTAL LOW VENTILATION:         1940 50. IN.         1940 50. IN.         1940 50. IN.           SUB-TOTAL LOW VENTILATION:         1940 50. IN.         1940 50. IN.         1940 50. IN.           SUB-TOTAL LOW VENTILATION:         1940 50. IN.         1940 50. IN.         1940 50. IN.           SUB-TOTAL LOW VENTILATION:         INCOMENTILATION INFORMER TREASED TO MARCHINE MEDICONNARE SIGNARESION         1940 50. IN.	PROJECT No.: 1350999:56     DIVISION MGR.: MCP     REVISIONS: 06/10/19     1     REVISIONS: 06/10/19     1     REVISIONS: 06/10/19     1     REVISIONS: 06/20/18     A     NCIBOLANCE- MIMIN DS     NCIBOLANCE- MIMIN DS     S     NCIBOLANCE- MIMIN S     S     DIVISION REVISIONS     POR INTERVAL USE ONLY     S
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         X 1041 =         9112         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.         484.6         50. IN.           1(4) LIN FEET OF RIDGE VENT AT (18 50. IN.FOOT) =         252         50. IN.         500         50. IN.         500. SO. IN.         500	PROJECT No.: 1350999:56 DIVISION MGR.: MCP     REVISIONS: 06/10/19 <u>1</u> REVISIONS: 06/10/19 <u>2</u> PROJECT NO.: 1350999:56 <u>2</u> PROJECT NO.: 06/20/19     PROJECT NO.: 06/20     PROJECT NO.: 06/20/19     PROJECT NO.: 06/20/19     PROJECT NO.: 06/20     PR
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         X 1041 =         9112         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.         484.6         50. IN.           1(4) LIN FEET OF RIDGE VENT AT (18 50. IN.FOOT) =         252         50. IN.         500         50. IN.         500. SO. IN.         500	PROJECT No.: 1350999:56 DIVISION MGR.: MCP     REVISIONS: 06/10/19 <u>1</u> <u>REVISIONS</u> : 06/10/19 <u>1</u> <u>REVISIONS</u> : 06/10/19 <u>1</u> <u>1</u> <u>NCIONIZONE MILLIONS</u> <u>2</u> <u>NCIONIZONE METAL REVISIONS <u>3</u> <u>DIVISION REVISIONS</u> <u>3</u> <u>2018 CODE UPDATE</u> <u>4</u> <u>2018 CODE UPDATE</u> <u>4</u> <u>2018 CODE UPDATE</u> <u>6</u> <u>DIVISION REVISIONS</u> <u>5</u> <u>DIVISION REVISIONS</u> <u>6</u> <u>DIVISION REVISIONS</u> <u>6</u> <u>DIVISION REVISIONS</u> <u>6</u> <u>101/1510N REVISIONS</u> <u>6</u> <u>11/1510N REVISIONS</u> <u>6</u> <u>11/1510N REVISIONS</u> <u>6</u> <u>11/1510N REVISIONS</u> <u>6</u> <u>11/1510N REVISIONS</u> <u>5     <u>11/1510N REVISIONS</u> <u>11/1510N REVISIONS</u> <u>11/1510N REVISIONS</u> <u>11/1510N REVISIONS</u> <u>5     <u>11/1510N REVISIONS</u> <u>5     <u>11/1510N REVISIONS</u> <u>5     <u>11/1510N REVISIONS</u> <u>5      11/1510N REVISIONS</u> </u></u></u></u></u>
AREA I / MAIN           VENTLATION REQUIRED:           ATTIC AREA           2041           SQ. FT. / 300 =           6.6           SQ. FT. / 300 =           484.6           VENTLATION REQUIRED:           X 50% =           VENTLATION PROVIDED:           HIGH           (1.4) LIN FET OF RIDGE VENT AT (16 SQ. IN, FA0.7) =           SUB-TOTAL LOW VENTLATION:           BUD TOTAL VENTLATION           BUD TOTAL VENTLATION:	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> <li> <ol> <li>REVISIONS: 06/10/19</li> </ol> </li> <li> <ol> <li>REVISIONS: 06/10/19</li> <li>REVISION REVISIONS REVISIONS REVISIONS REVISIONS: 00/2019 / CTD</li> <li></li></ol></li></ul>
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         X 1041 =         9112         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.         484.6         50. IN.           1(4) LIN FEET OF RIDGE VENT AT (18 50. IN.FOOT) =         252         50. IN.         500         50. IN.         500. SO. IN.         500	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> <li> <ol> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISION REVISIONS NCIBHINCE- 9/27/18 CTD</li> <li>REVISION REVISIONS NCIBHINCE- 9/27/18 CTD</li> <li>REVISION REVISIONS NCIBHINCE- 9/27/18 CTD</li> <li>REVISION REVISIONS NCIBHINCE- 9/27/18 CTD</li> <li>REVISION REVISIONS NCIBHINCE/ 9/22/19 / CTD</li> <li>REVISION REVISIONS NCIBHINCE/ 9/07/29 / CTD</li> </ol> </li> <li>POR INTERNAL USE ONLY REVIEWER BY</li></ul>
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           X 144 =         911.2         50. FT. / 300 =         6.8         50. FT.           X 164 =         911.2         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.           1.41         LIN FET OF RIDGE VENTAT (16.90. IN.FOOT) =         252         50. IN.           1.42         J 5-144 ROOF VENTILATION:         500. IN.FOOT) =         200 50. IN.           SUB-TOTAL LOW VENTILATION:         500. IN.FOOT) =         200 50. IN.         - 50. IN.           SUB-TOTAL LOW VENTILATION:         500.50. IN.FOOT) =         500. IN.         - 50. IN.           SUB-TOTAL LOW VENTILATION:         1940 50. IN.         1940 50. IN.         1940 50. IN.           SUB-TOTAL LOW VENTILATION:         1940 50. IN.         1940 50. IN.         1940 50. IN.           SUB-TOTAL LOW VENTILATION:         1940 50. IN.         1940 50. IN.         1940 50. IN.           SUB-TOTAL LOW VENTILATION:         INCOMENTILATION INFORMER TREASED TO MARCHINE MEDICONNARE SIGNARESION         1940 50. IN.	PROJECT No.: 1350999:56 DIVISION MGR.: MCP     REVISIONS: 06/10/19 <u>1</u> <u>REVISIONS</u> : 06/10/19 <u>1</u> <u>REVISIONS</u> : 06/10/19 <u>1</u> <u>1</u> <u>NCIONIANCP-3020/18 - KIL     <u>2</u> <u>1</u> <u>1000EINO REVISIONS</u> <u>3</u> <u>100EINOP 3020/18 - KIL     <u>3</u> <u>2018 CODE UPDATE</u> <u>4</u> <u>2018 CODE UPDATE</u> <u>4</u> <u>2018 CODE UPDATE</u> <u>6</u> <u>100EINOP 3022/19 / CTD</u> <u>700EINOP REVISIONS</u> <u>700EINOP REVISIONS</u> <u>8 <u>80EBECEIEN</u> <u>140.1582-R</u> <u>8HEET:</u> </u></u></u>
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         X 1041 =         9112         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.         484.6         50. IN.           1(4) LIN FEET OF RIDGE VENT AT (18 50. IN.FOOT) =         252         50. IN.         500         50. IN.         500. SO. IN.         500	<ul> <li>PROJECT No.: 1350999:56 DIVISION MGR.: MCP</li> <li>REVISIONS: 06/10/19</li> <li> <ol> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISIONS: 06/10/19</li> <li>REVISION REVISIONS NCIBHINCE- 9/27/18 CTD</li> <li>REVISION REVISIONS NCIBHINCE- 9/27/18 CTD</li> <li>REVISION REVISIONS NCIBHINCE- 9/27/18 CTD</li> <li>REVISION REVISIONS NCIBHINCE- 9/27/18 CTD</li> <li>REVISION REVISIONS NCIBHINCE/ 9/22/19 / CTD</li> <li>REVISION REVISIONS NCIBHINCE/ 9/07/29 / CTD</li> </ol> </li> <li>POR INTERNAL USE ONLY REVIEWE BY:         <ol> <li>REVISION REVISIONS REVIEWE BY:</li></ol></li></ul>
AREA I / MAIN           VENTILATION REQUIRED: ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         2041         50. FT. / 300 =         6.8         50. FT.           ATTIC AREA         X 1041 =         9112         50. FT. / 300 =         484.6         50. IN.           VENTILATION PROVIDED:         X 50% =         484.6         50. IN.         484.6         50. IN.           1(4) LIN FEET OF RIDGE VENT AT (18 50. IN.FOOT) =         252         50. IN.         500         50. IN.         500. SO. IN.         500	PROJECT No.: 1350999:56 DIVISION MGR.: MCP REVISIONS: 06/10/19 1 REVISIONS: 06/10/19 1 REVISIONS: 06/10/19 1 REVISIONS: 06/20/19 DS 1 REVISION REVISIONS 1 DIVISION REVISIONS 2 NOISOUTHOR REVISIONS 2 NOISOUTHORY 05/22/19 / CTD 2 NOISOUTHORY 05/22/19 / CTD 1 REVISION REVISIONS 1 DIVISION REVISIONS



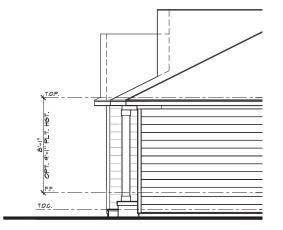
SCALE |/4"=I'-0" (22"×34") - |/8"=I'-0" (||"×I7")



#	ELEVATION NOTES
NOT	E: NOT ALL KEY NOTES APPLY.
ι.	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.	
9	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
30.	DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.
31.	BRACKET OR KICKER - FYPHON OR EQ.
32.	ENTRY DOOR
33.	CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.
34.	SECTIONAL GARAGE DOOR PER SPECS
35.	ALUMINUM WRAP
36.	OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS
37.	OPTIONAL STANDING SEAM METAL ROOF
38.	KEYSTONE
39.	SOLDIER CROWN
40.	JACK SOLDIER COURSE
41.	WATER TABLE
42.	ATRIUM DOOR
	PILASTER - SEE ELEVATION FOR TYPE



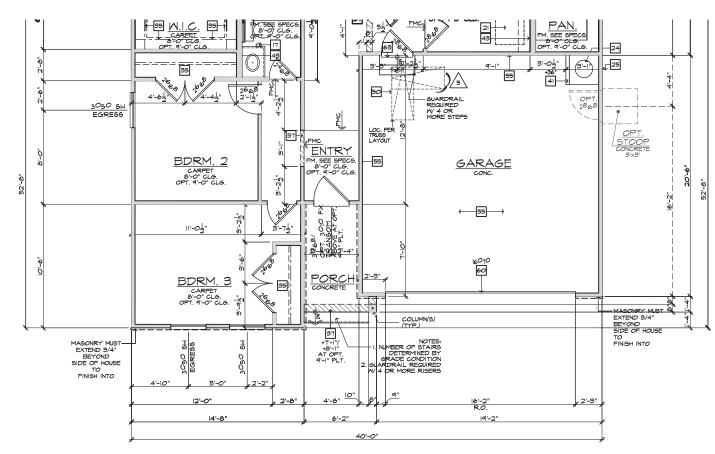
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 PARTIAL

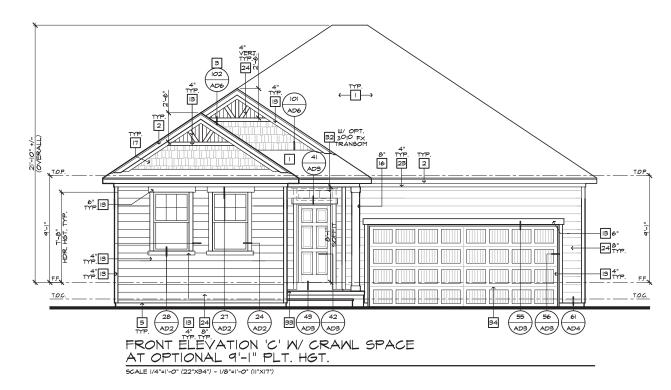
 LEFT ELEVATION 'C' AT CRAML SPACE

 SCALE 1/4"=1-0" (22"X34") - 1/8"=1'-0" (11"X1")

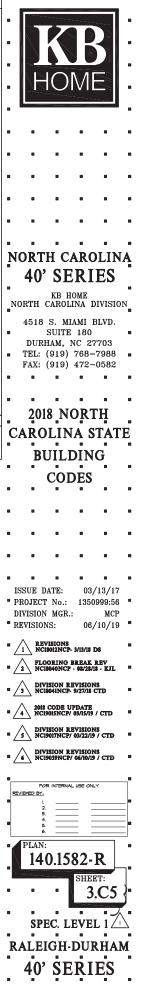


PARTIAL FIRST FLOOR PLAN 'C' AT CRAWL SPACE

# ELEVATION NOTES	
NOTE: NOT ALL KEY NOTES APPLY.	
ROOF MATERIAL - REFER TO ROOF NOTES     X FASCIA/BARGE BOARD WITH FASCIA CAP	
3. G.I. FLASHING	
4. G.I. FLASHING & SADDLE/CRICKET 5. G.I. DRIP SCREED	
6. 24"x24" CHIMNEY	
7. DECORATIVE VENT	
8. DECORATIVE CORBEL 9. DECORATIVE SHUTTERS	
IO. PEDIMENT. SEE ELEVATION FOR TYPE	
II.         RECESSED ELEMENT           12.         DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE	63 60
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	
20. BUILT UP BRICK COLUMN 21. SOLDIER COURSE	
22. ROWLOCK COURSE	
23. FRIEZE BOARD 24. SIDING W/ 4" CORNER TRIM PER SPECS	
25. P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE	
26. PRE-FAB DECORATIVE TRIM 27. LIGHT WEIGHT PRECAST STONE TRIM	NORTH CAROLINA
28. RAILINGS (+36" U.N.O.)	40' SERIES
29. VINYL WRAP 30. DECORATIVE WINDOWDOOR TRIM - FYPON OR EQ. SEE	- TV SLAILS
ELEVATION FOR SIZE.	KB HOME
31. BRACKET OR KICKER - FYPHON OR EQ. 32. ENTRY DOOR	NORTH CAROLINA DIVISION
33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.	4518 S. MIAMI BLVD.
34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP	SUITE 180
36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS	DURHAM, NC 27703
37. OPTIONAL STANDING SEAM METAL ROOF 38. KEYSTONE	■ TEL: (919) 768-7988 ■ FAX: (919) 472-0582
39. SOLDIER CROWN	
40. JACK SOLDIER COURSE	
41. WATER TABLE 42. ATRIUM DOOR	
43. PILASTER - SEE ELEVATION FOR TYPE	2018 NORTH
# PARTIAL PLAN NOTES	_
NOTE: NOT ALL KEY NOTES APPLY.	CAROLINA STATE
31. +36" GUARD WALL DETAIL 84/AD5 OR 86/AD5	PUUDING
37. FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT	BUILDING
38. NOT USED	CODES
39. LINE OF CEILING BREAK	
<ul> <li>40. INTERIOR SHELF - REFER TO PLAN OR INT. ELEVS. FOR HGT.</li> <li>41. LOW WALL - REFER TO PLAN FOR HEIGHT - DETAIL 12/AD4</li> </ul>	
43. 2x6 WALL	8 8 8 8 8
44. 2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	
45. DOUBLE 2x4 WALL	
46. LINE OF FLOOR ABOVE	
47. LINE OF FLOOR BELOW	
40. EXTERIOR RAIL	
55. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN ½" GYPSUM BOARD	ISSUE DATE: 03/13/17
APPLIED TO THE GARAGE SIDE	• PROJECT No.: 1350999:56
56. SEPARATION BETWEEN SECOND FLOOR AND GARAGE CELING. PROVIDE (1) LAYER OF %" TYPE "X" SYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CELING. PROVIDE (1) LAYER OF 1/2"	DIVISION MGR.: MCP
GYPSUM BOARD	REVISIONS: 06/10/19
57. EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT	
60. SECTIONAL GARAGE DOOR - VERIEY WINDOW OPTION	
	E 2 FLOORING BREAK REV NCI8040NCP · 05/22/13 · KJL
	2 3 NC1804INCP- 9/27/18 CTD
	2018 CODE UPDATE     NC19015NCP/ 03/15/19 / CTD
	* 5 NC19017NCP/ 03/22/19 / CTD *
	DIVISION REVISIONS 6 NCI9039NCP/ 06/10/19 / CTD
	FOR INTERNAL USE ONLY
	REVIEWED BY:
	B I B 2
	3
	5 6
	PLAN:
	140.1582-R
	SHEET:
	· · · 3.C4
	SPEC. LEVEL $1^{1/2}$
REFER TO BASIC ELEVATIONS FOR INFORMATION NOT SHOWN HERE	
L	RALEIGH-DURHAM
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT	
REFER TO BASIC FLOOR FLAN FOR INFORMATION NOT SHOWN HERE	40 SEKIES



#	ELEVATION NOTES
NOT	E: NOT ALL KEY NOTES APPLY.
Т.	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
н.	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.
	BRACKET OR KICKER - FYPHON OR EQ.
	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
38.	KEYSTONE
	SOLDIER CROWN
	JACK SOLDIER COURSE
	WATER TABLE
	ATRIUM DOOR
43.	PILASTER - SEE ELEVATION FOR TYPE
	9-1" PLATE OPTION
HEAD	5. IOM SIZES MILL INCREASE BY I' AT 9'-1" PLATE OPTIONS. DER HEIGHTS FOR ALL MINDOMS WILL BE ' AT 9'-1" PLATE OPTIONS.

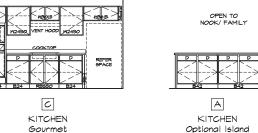


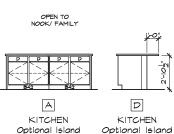
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SCALE: |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

### OPTIONAL INTERIOR ELEVATIONS







### LAUNDRY AND MISCELLANEOUS CABINETS

в
LAUNDRY
Opt. Upper
Cabinets

MICRO.

over space



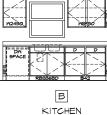


### KITCHEN CABINETS

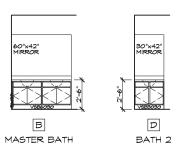
SCALE: 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")



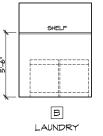
STANDARD INTERIOR ELEVATIONS

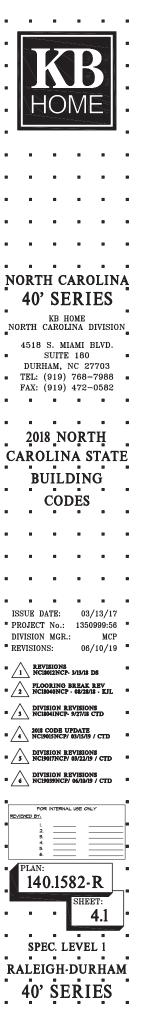


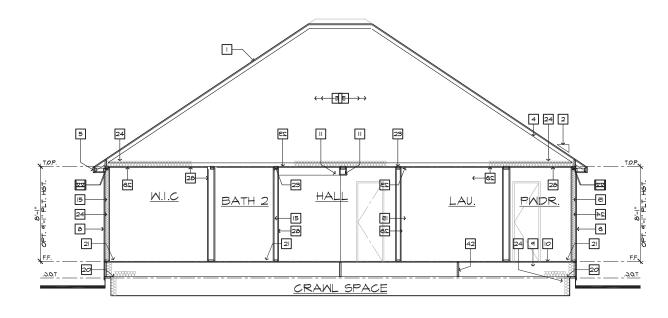
### BATH CABINETS



### LAUNDRY AND MISCELLANEOUS CABINETS



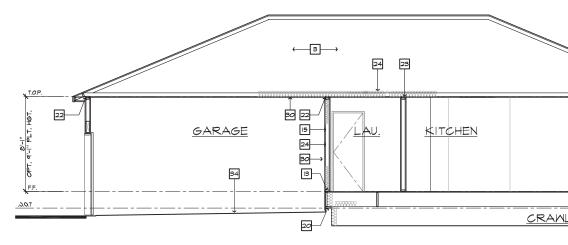




SECTION "A"

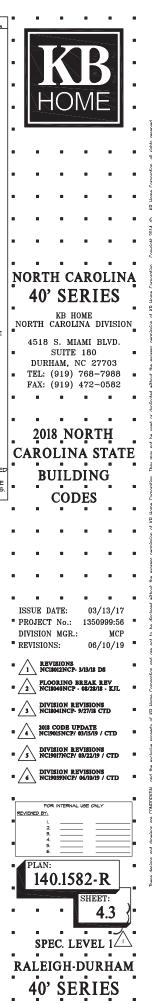
SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

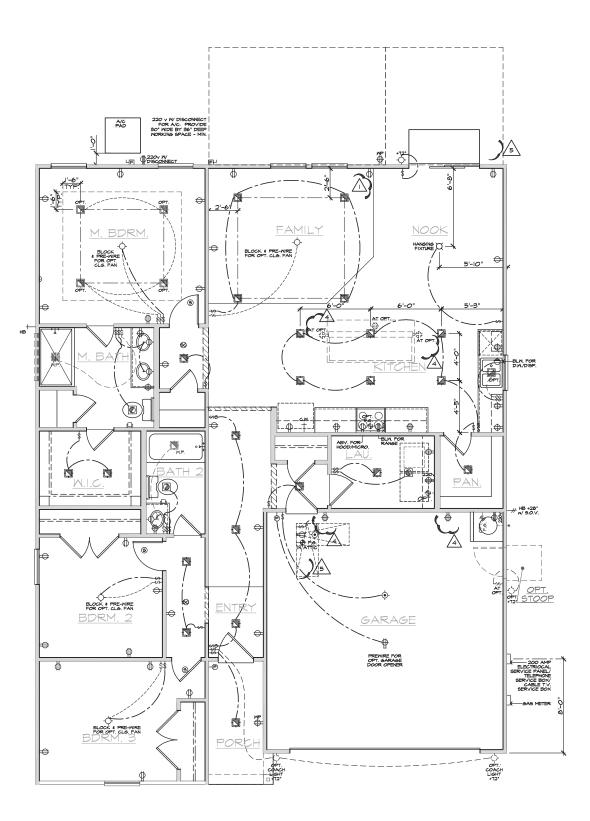
AT CRAWL SPACE



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

N/m	SECTION NOTES 2009 NG-R
	E: NOT ALL KEY NOTES APPLY.
1. 2.	ROOF MATERIAL - REFER TO ROOF NOTES ROOF PITCH - REFER TO ROOF NOTES
и. Э.	PRE-MANUFACTURED WOOD ROOF TRUSS SYSTEM - SEE STRUCTURAL & TRUSS CALCS
4. 5.	ROOF SHEATHING PER STRUCTURAL 2x FASCIA/BARGE BOARD
5. 6.	CONT. SOFFITED EAVE W/VENTING
7.	G.I. FLASHING - ROOF TO WALL
8.	EXTERIOR FINISH PER ELEVATIONS
٩.	FLOOR FRAMING PER STRUCTURAL
	FLOOR SHEATHING PER STRUCTURAL
11.	HEADER PER STRUCTURAL
	FLUSH BEAM PER STRUCTURAL
	DROPPED BEAM PER STRUCTURAL FLAT/ ARCHED SOFFIT PER PLAN
15.	
	2×6 STUD WALL
17.	2×6 BALLOON FRAMED WALL PER STRUCTURAL
18.	DBL. 2x4 WALL PER PLAN
19.	2x CRIPPLES @ 16" O.C.
	2x PRESSURE TREATED SILL PLATE
	2x SOLE PLATE
	DBL. 2x TOP PLATE @ EXTERIOR & BEARING WALLS IX OVER 2x TOP PLATE @ INTERIOR & NON-BEARING
25.	WALLS
24.	INSULATION MATERIAL PER ENERGY CALCULATIONS
	MIN. 36" HIGH GUARD - SEE PLAN FOR HEIGHT
	LOW WALL - SEE PLAN FOR HEIGHT
27.	STAIR TREADS AND RISERS PER PLAN: - MIN. 10" TREAD \$ MAX. 7 3/4" RISER
28.	INTERIOR FINISH: - MIN. 1/2" GYP, BD. @ WALLS & SAG RESISTANT OR 5/8" DRYWALL @ CEILING
29.	MIN. 1/2" GYP. BD. ON CEILING & WALLS @ USEABLE SPACE UNDER STAIRS.
30.	GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND
	GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT I/2" GYP. BD. ( GARAGE SIDE WALLS & $5/6$ " UNDER LIVING AREA U.N.O.
	MATERIAL TO UNDERSIDE OF ROOF SHEATHING
	INTERIOR SHELF - MIN. 1/2" GYP. BD. OVER 3/8" PLY WD.
33.	
34	SLOPE 1/4" PER FT. MIN. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN.
	CONCRETE GARAGE SLAD PER STRUCTURAL - SLOPE 2 MIN. CONCRETE FOUNDATION PER STRUCTURAL
	LINE OF OPTIONAL TRAY CEILING/ STEP CEILING
	LINE OF OPTIONAL VOLUME CEILING
38.	PROFILE OF OPTIONAL COVERED PATIO
	EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS.
	8" BLOCK WALL
41.	5/8" TYPE-X DRYWALL @ GARAGE CEILING
42.	
	WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A SINGLE-FAMILY DWELLING, DRAFT STOPS SHALL BE INSTALLE
	The second
	SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT
	SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1,000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY FOLIAL APEAG
	SO THAT THE AKEA OF THE CONCEALED SPACE DOES NOT EXCEED LOOD SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS
	50 THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE TET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS
	SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE TET. DRAFTSOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS
	SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED LOOS SQUARE BET. DRAFTSOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS
	SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE TET: DRAFTSOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS
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	50 THE CONCEALED SPACE DOES NOT EXCEED 1000 SOLARE TET. DRAFTSOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS
	SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SOUARE TET. DRAFTSOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS
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	SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SOLARE TET. DRAFTSOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS
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	EXCEED 1000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS



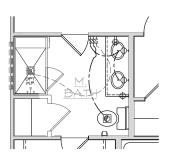


UTILITY PLAN SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7")

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	UTILITY LEGEND	•	•	•	•	•	
⇒	120V DUPLEX CONVENIENCE RECEPTACLE	.					
in⊖ m= er	ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL U.N.O. 11 120y (TR) RECEPTACLE W/ GFI CIRCUIT						
r∰ mP	W WATER RESISTANT HOUSING						8
⊫⊜ ⊜≓i ⊫⊕	120V (TR) RECEPTACLE W/ GFI CIRCUIT			<u> </u>	) E		8
Ъ,	FUSED DISCONNECT				N A		
0	120V (AFCI & TR) RECESSED FLOOR RECEPTACLE W/ COVER	•		IU	IVI		
⇔	1207 (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SWITCH CONTROLLED, 1/2 HOT						
i⊜ 220 v	2207 SINGLE CONVENIENCE RECEPTACLE						
+ <del>63</del> -	HEIGHT NOTED AS PER PLAN TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR.	•	•	8	•		
+ <del>67</del> -8	8" ABOVE COUNTER U.N.O. THREE-POLE LIGHT SWITCH						
<del>⊦69</del> -4	FOUR-POLE LIGHT SWITCH						
ю,-м.р.	WALL MOUNTED LIGHT FIXTURE W/WATER RESISTANT HOUSING	8	•		•		
ф	WALL MOUNTED INCANDESCENT LIGHT FIXTURE						
нġ-	WALL MOUNTED FLUORESCENT		_	_	_	_	_
	LIGHT FIXTURE CEILING MOUNTED INCANDESCENT		•	•	•	•	
ф	LIGHT FIXTURE			8	•		
÷	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE	N	ORT	H C	ARC	DLIN	Ι <b>Α</b>
¤	HANGING INCANDESCENT LIGHT FIXTURE	-	<b>40</b> <sup>3</sup>	' SE	ERI	ES	-
Ð	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)	-		кв н			
Ø	RECESSED INCANDESCENT LIGHT FIXTURE	NC	RTH	CAROL		oivisio	N
	LIGHTING - TRAVERSE II LED FIXTURE - PER SPECS		4518	s. M		BLVD.	
(ў. м.р. —	RECESSED INCANDESCENT LIGHT FIXTURE W WATER RESISTANT HOUSING		סיות	SUITE HAM,		7709	8
Ø	RECESSED FLUORESCENT LIGHT FIXTURE			(919)			
	RECESSED EXHAUST FAN RECESSED EXHAUST FAN/ INCANDESCENT		FAX:	(919)	472-	0582	
<b>Q</b>	LIGHT COMBINATION		•	•		•	
Ø	RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION			8			
	INCANDESCENT WALL SCONCE ILLUMINATED ADDRESS SIGN - VISIBLE		20	18_N	OR1	<b>H</b>	
	FROM STREET	C		) LIN			'''
i       i							
¦	24"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)		B	UILI	DIN	G	_
			•	COI	DĒS	•	•
					8		
li li	12"x48" FLUORESCENT LIGHT			-		-	
	BOX (CEILING MOUNTED)	-	-	-	-	-	-
	OPTIONAL PRE-WIRED CEILING FAN	•	•		•		8
e O	AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O.						8
нQ	CEILING MOUNTED JUNCTION BOX						
000	DOOR CHIME	•			•	••••	
ΗM	CATV RECEPTACLE		ROJEC'	JATE: F No.:		/13/17 999:56	
⊢® ⊨∎	PUSH BUTTON PHONE OUTLET			N MGR.		MCP	
<u>ו</u>	SERVICE BOX	RI RI	EVISIO	NS:	06,	/10/19	
-+ HB	HOSE BIB	• /		VISIONS	. 1/11/18	DS	
–≁нв –∔см	HOSE BIB W/ S.O.V. WATER STUB FOR ICE MAKER			DORING	BREAK	REV	_
	APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED	"/		18040NCP			
9	WITH BATTERY BACK-UP AND INTERCONNECTED APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.	• _	3 DIT 3 NC	ISION R	EVISIO1 9/27/18	is CTD	
<b>⊗</b> ⊢®	APPROVED CARBON MONOXIDE ALARM/ SMORE DET. THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)	. /	4 2014	CODE U	PDATE	/ CTT-	
ь¢	GAS TAP						-
ιÆ	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48° FROM GAS OUTLET	• _	S NC	ISION R	EVISIOI / 03/22/15	CTD	8
		. /		ISION R	EVISIO1	is / CTD	
R	NITCHING FOR 24" MIN. SEPERATION DOMS W/ CLG. FAN OF ELECTRICAL BOXES TIONS AS SHOWN BELOW						
LIGHT / I ½ HC				OR INTERNA	L USE ON	.Y	
12110	↑    <u>/ \    ↑    +  +  +  +  +  +  +  +  +  +  +  +  </u>	REV B	IENED BY:				_
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SEC			5	i			_
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	PONSIBLE FOR PROPER INSTALLATION AND CEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE FIXTURE.				SHE	ET:	
	VIDE SWITCH, LIGHT, 120V (AFCI & TR) DUPLEX EPTACLE, & FUEL GAS STUB OR 220V RECEPTACLE ITTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.	•	•	•		5.1	•
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5. 200	AMP ELECTRICAL PANEL (DEFAULT), ELECTRICAL	кл в	8				NAT NAT
AMF	N CHECK PERMIT REQUIRED IF LOAD EXCEED 400 15.		<b>4</b> 0 <sup>°</sup>	' SE	ŔĪ	ES	_

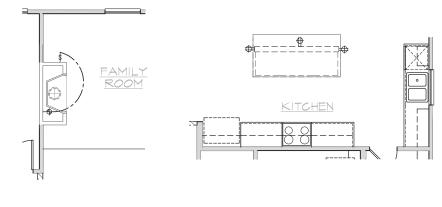
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DELUXE M. BATH AT MASTER BATH

UTILITY PLAN OPTIONS

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

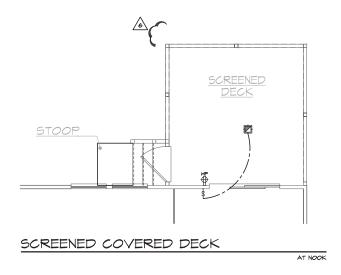


FIREPLACE AT FAMILY ROOM ISLAND

AT KITCHEN

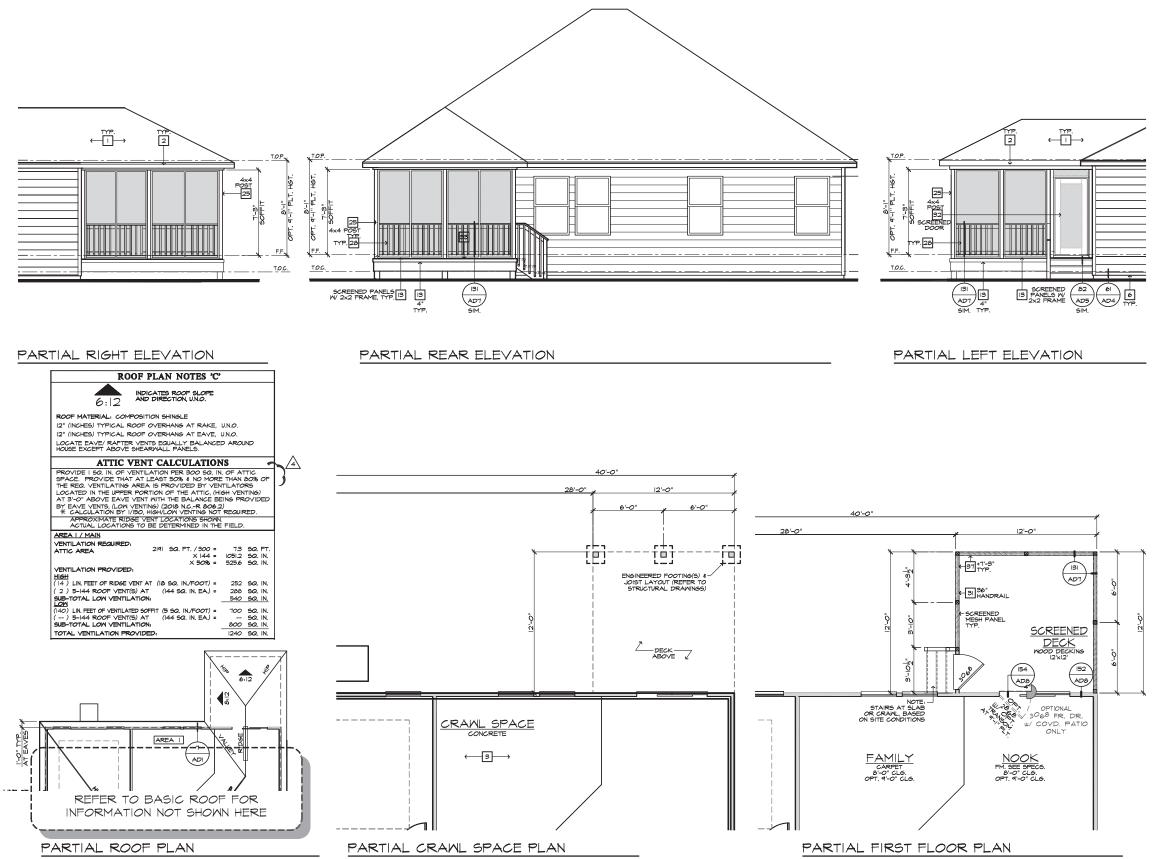
	UTILITY LEGEND	=	•				8
÷	120/ DUPLEX CONVENIENCE RECEPTACLE						
	ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL U.N.O.	8	~	 ``			
	1 120v (TR) RECEPTACLE W/ GFI CIRCUIT W/ WATER RESISTANT HOUSING						_
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⊯ ∳ ⊯	120V (TR) RECEPTACLE W/ GFI CIRCUIT			۹.	9 6	ノー	-
	FUSED DISCONNECT				N /	~	-
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0	120V (AFCI & TR) RECESSED FLOOR RECEPTACLE W/ COVER						_
⊕	120V (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SWITCH CONTROLLED, 1/2 HOT			_			8
i∉ 220 v	220V SINGLE CONVENIENCE RECEPTACLE						
	HEIGHT NOTED AS PER PLAN					8	
÷	TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. 8" ABOVE COUNTER U.N.O.						
+ <del>69-</del> 8	THREE-POLE LIGHT SWITCH	8	8		8		8
+69-4	FOUR-POLE LIGHT SWITCH						
ю́-м.р.	WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING						
	WALL MOUNTED INCANDESCENT						
φ	LIGHT FIXTURE						
ŀ€ŀ	WALL MOUNTED FLUORESCENT LIGHT FIXTURE	8					
-0-	CEILING MOUNTED INCANDESCENT						
Ŷ	LIGHT FIXTURE					8	
-¢-	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE	N	ORT	Ή C	ARC	DLIN	IA
¤	HANGING INCANDESCENT	• ``					
			40	' SE	KI	ES	
Ð	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)			KB H	IOME		8
Ø	RECESSED INCANDESCENT LIGHT FIXTURE	NO NO	RTH			DIVISIO	DN_
卤	LIGHTING - TRAVERSE II LED FIXTURE - PER SPECS	1	4510	s. M	тамт	BLVD	
Ф.р.	RECESSED INCANDESCENT LIGHT FIXTURE		4910	S. M SUITE		י עאידים	
	W/ WATER RESISTANT HOUSING		DUR	HAM,		7703	
¢	RECESSED FLUORESCENT LIGHT FIXTURE			(919)			
_	RECESSED EXHAUST FAN		FAX:	(919)	472-	-0582	
Ş	RECESSED EXHAUST FAN/ INCANDESCENT LIGHT COMBINATION						
Ø	RECESSED EXHAUST FAN/ FLUORESCENT						
D		8					8
1	INCANDESCENT WALL SCONCE ILLUMINATED ADDRESS SIGN - VISIBLE		20	18 <u>N</u>	OR:	ГН	
J	FROM STREET						יתי
			AKC			TAT	E
	24"x48" FLUORESCENT LIGHT		 [2]	UIL	กเ้ง	a.	
I ! M M !	BOX (CEILING MOUNTED)					U.	
				COI	DES		
					•	8	
liĦi	12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)						
li li -							
				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	- TC	- 	- אידיגר		-	
ΗT	CATV RECEPTACLE		SUE I	T No.:		/13/17 )999:56	
⊢®	PUSH BUTTON			MGR		MCP	
H.	PHONE OUTLET	_	EVISIO			/10/19	-
	SERVICE BOX		111010	110.	00	, 10, 10	
— на	HOSE BIB	• /		VISIONS	. 1/11/18	DS	
-⊮ нв	HOSE BIB W/ S.O.V.	_	<u> </u>	DORING			
— см	WATER STUB FOR ICE MAKER APPROVED CEILING MOUNTED	• Z		18040NCI	• 08/28/		
9	SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED	. /		ISION I	EVISIO	NS	_
69	APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.	" /	3 / NC	1804INCF	9/27/18	CTD	
ΗŪ	THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)	. /	4 2014	CODE U	JPDATE	1000	
ь	GAS TAP	<u> </u>	<u> </u>				-
	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET	. /		ISION B	EVISIO	NS 9 / CTD	
⊢ <del>∑</del>	BUT NO MORE THAN 48" FROM GAS OUTLET		<u> </u>				
sr	NITCHING FOR 24" MIN. SEPERATION DOMS W/ CLG. FAN OF ELECTRICAL BOXES	•/		/ISION 1 19039NCI	EVISIO / 06/10/1	NS 9 / CTD	8
RC OF	DOMS W/ CLG. FAN OF ELECTRICAL BOXES PTIONS AS SHOWN BELOW						
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SECO	NDARY MASTER GARAGE		5				
	NOTES	•	PLAN	:			
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ENG RES	HANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE WIN FOR INTENT ONLY. THESE SYSTEMS SHALL BE INEERED BY OTHERS. THE CONTRACTOR SHALL BE PONSIBLE FOR PROPER INSTALLATION AND		17	v.1J	04	<u> </u>	<b>"</b>
I PLA	CEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE FIXTURE.				SHE	ET:	
2. PRO	VIDE SWITCH, LIGHT, IZOV (AFCI & TR) DUPLEX			•	1	5.2	•
IN A	IVIDE SWITCH, LIGHT, 120V (AFCI & TR) DUPLEX EPTACLE, & FUEL GAS STUB OR 220V RECEPTACLE ITTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.						
3. SMC	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO LOCATED AT HIGHEST POINT OF CEILING		8		8 173.757	а т 1	8
	LOCATED AT HIGHEST POINT OF CEILING FOOT #4 REBAR FOR UFER GROUND AND		SP.	EC. L	EVE.	LI	_
ADI	POOT #4 REBAR FOR UPER GROUND AND DITIONAL COLD WATER GROUND. REFER TO SLAB REFACE PLAN FOR LOCATION.	<b>D</b> .	AT P	ເດັບ	ייידת.	RHA	M
5. 200	AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL						8 141
PLA AMF	N CHECK PERMIT REQUIRED IF LOAD EXCEED 400		402	ŚĒ	RI	FS	
			TV	<b>N</b> T	~ I Z I	עייי	_

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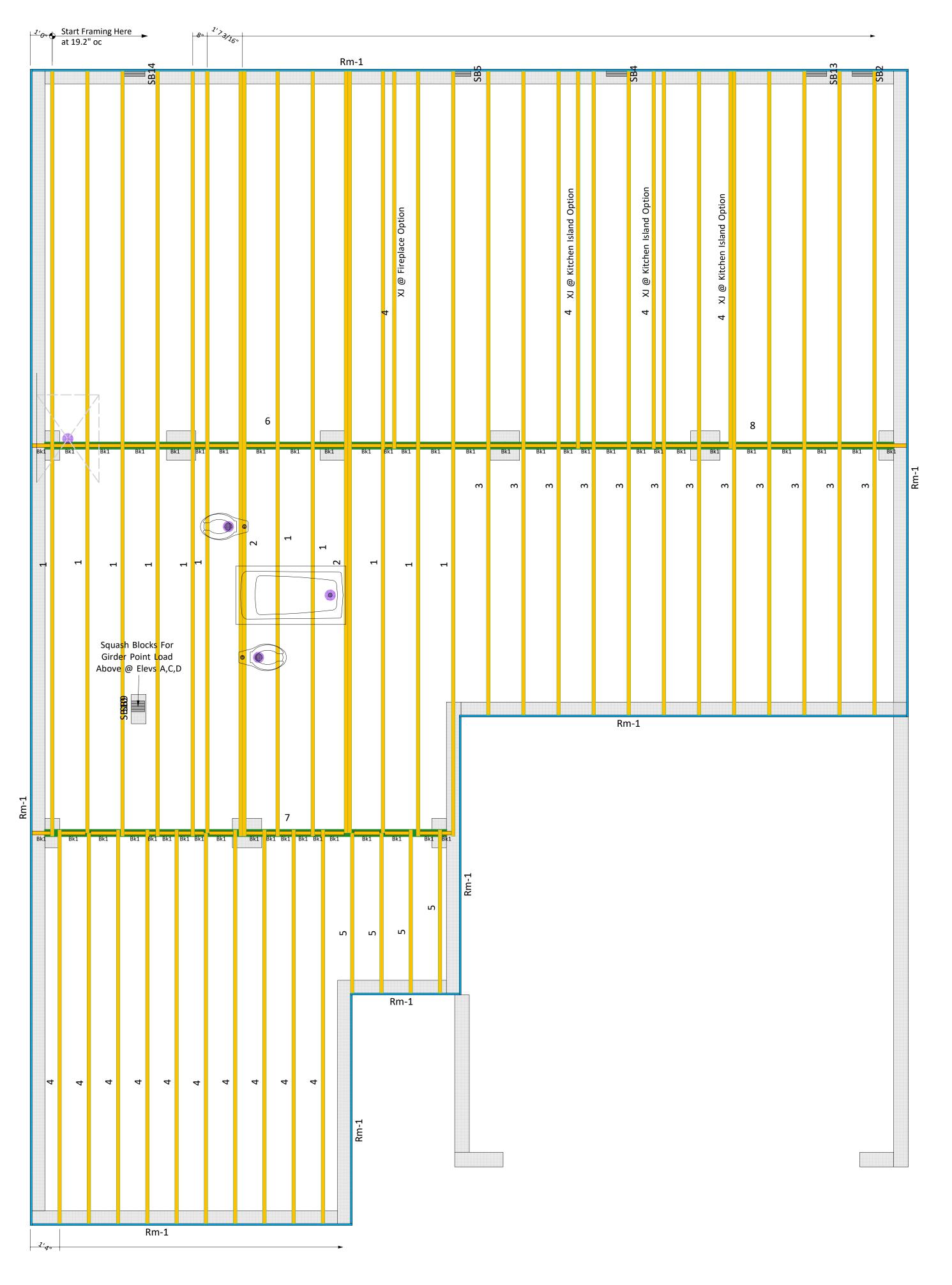
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	UTILITY LEGEND	] • • • • •
₽	120y DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV, FIN, FLR, TYPICAL U.N.O.	8 8
t⊖ wP 6F	12" ABV. FIN. FLR. TYPICAL U.N.O. 1 120v (TR) RECEPTACLE W GFI CIRCUIT W WATER RESISTANT HOUSING	
-Ψ <i>n</i>		
⊯e= ⊯	120V (TR) RECEPTACLE W/ GFI CIRCUIT	
с. С	FUSED DISCONNECT	HOME
$\odot$	1207 (AFCI & TR) RECESSED FLOOR RECEPTACLE W/ COVER	I HOME .
₽	120V (AFGI & TR) DUPLEX CONVENIENCE RECEPTACLE SMITCH CONTROLLED, 1/2 HOT	
II 220 v	220Y SINGLE CONVENIENCE RECEPTACLE	
	HEIGHT NOTED AS PER PLAN TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR.	
<del>нсэ</del> -	8" ABOVE COUNTER U.N.O.	
+ <del>69</del> -3 ∺69-4	THREE-POLE LIGHT SWITCH	
ю, ч	FOUR-POLE LIGHT SWITCH WALL MOUNTED LIGHT FIXTURE	
	W/ WATER RESISTANT HOUSING	
φ	WALL MOUNTED INCANDESCENT LIGHT FIXTURE	
÷	WALL MOUNTED FLUORESCENT LIGHT FIXTURE	
- <b>(</b> -	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE	
- <b>(</b> )-	CEILING MOUNTED FLUORESCENT	NORTH CAROLINA
ă	LIGHT FIXTURE HANGING INCANDESCENT	NORTH CAROLINA
	LIGHT FIXTURE	40' SERIES
Ð	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)	KB HOME
Ð	RECESSED INCANDESCENT LIGHT FIXTURE LIGHTING - TRAVERSE II LED FIXTURE -	NORTH CAROLINA DIVISION
	PER SPECS	4506 S. MIAMI BLVD.
ф м.р.	RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING	<ul> <li>SUITE 100</li> <li>DURHAM, NC 27703</li> </ul>
¢	RECESSED FLUORESCENT LIGHT FIXTURE	■ TEL: (919) 768-7980 ■
	RECESSED EXHAUST FAN RECESSED EXHAUST FAN/ INCANDESCENT	
	LIGHT COMBINATION	
Q	RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION	
D	INCANDESCENT WALL SCONCE	2018_NORTH
]	ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET	
		CAROLINA STATE
iaai	24"x48" FLUORESCENT LIGHT	BUILDING
1	BOX (CEILING MOUNTED)	
		CODES
i∥i		
¦ e ¦	12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)	
Ð	OPTIONAL PRE-WIRED CEILING FAN	
Ð	AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O. CEILING MOUNTED JUNCTION BOX	
нQ	WALL MOUNTED JUNCTION BOX	
	DOOR CHIME	ISSUE DATE: 02/23/17
H™ H®		PROJECT No.: 1350999:56
-© ⊢∎	PUSH BUTTON PHONE OUTLET	DIVISION MGR.: MCP
]	SERVICE BOX	• REVISIONS: 11/26/19
+ нв	HOSE BIB	ADD CRAWL SPACE
—# нв —+ см		✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
-+ CR	WATER STUB FOR ICE MAKER APPROVED CEILING MOUNTED	2 NC18040NCP · 08/28/18 · KJL
9	APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED	DIVISION REVISIONS 3 DIVISION REVISIONS NCI8041NCP- 9/27/18 CTD
⊗		
⊢® ⊢∳	THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN) GAS TAP	* 4 NCI90ISNCP/ 03/IS/19 / CTD
	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET	DIVISION REVISIONS S NCI9017NCP/ 03/22/19 / CTD
ŀ₩	BUT NO MORE THAN 48" FROM GAS OUTLET	
RC	NITCHING FOR 24" MIN. SEPERATION DOMS W/ CLG. FAN OF ELECTRICAL BOXES	A NCI9058NCP/ 11/26/19 / FAE
LIGHT / I	TIONS AS SHOWN BELOW	aa
? HO		FOR INTERNAL USE ONLY REVIEWED BY.
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2004	NOTES	6
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PLA	CEMENT, ALL HEIGHTS SHOWN ARE TO CENTERLINE FIXTURE.	SHEET:
2. PRC	VIDE SWITCH, LIGHT, 120V (AFCI & TR) DUPLEX EPTACLE, & FUEL GAS STUB OR 220V RECEPTACLE TTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.	5.3
3. SMC BE	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO LOCATED AT HIGHEST POINT OF CEILING	SPEC. LEVEL 1
ADD	FOOT #4 REBAR FOR UFER GROUND AND DITIONAL COLD WATER GROUND, REFER TO SLAB	8 8 8 8 8 8
INTE	RFACE PLAN FOR LOCATION. AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL	RALEIGH-DURHAM
	N CHECK PERMIT REQUIRED IF LOAD EXCEED 400	40' SERIES



<sup>12&#</sup>x27;X12' SCREENED-IN DECK 'C' AT CRAWL SPACE

#	ELEVATION NOTES	
	E: NOT ALL KEY NOTES APPLY.	·····
ı. 2.	ROOF MATERIAL - REFER TO ROOF NOTES 2X FASCIA/BARGE BOARD WITH FASCIA CAP	
з.	G.I. FLASHING	
4.	G.I. FLASHING & SADDLE/CRICKET	
5.	G.I. DRIP SCREED	
б.	24"x24" CHIMNEY	
7.	DECORATIVE VENT	
	DECORATIVE CORBEL	
9.	DECORATIVE SHUTTERS	
IU.	PEDIMENT. SEE ELEVATION FOR TYPE RECESSED ELEMENT	
	DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE	
	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	
20	BUILT UP BRICK COLUMN	
	SOLDIER COURSE	
22.	ROWLOCK COURSE	
	FRIEZE BOARD	
	SIDING W/ 4" CORNER TRIM PER SPECS	
	P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE	
	PRE-FAB DECORATIVE TRIM	NORTH CAROLINA
	LIGHT WEIGHT PRECAST STONE TRIM RAILINGS (+36" U.N.O.)	8 8
	VINYL WRAP	40' SERIES
	DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE	
21	ELEVATION FOR SIZE. BRACKET OR KICKER - FYPHON OR EQ.	KB HOME NORTH CAROLINA DIVISION
	ENTRY DOOR	B B B B B B B B B B B B B B B B B B B
	CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.	4518 S. MIAMI BLVD.
	SECTIONAL GARAGE DOOR PER SPECS	• SUITE 180 •
	ALUMINUM WRAP	DURHAM, NC 27703
	OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS	TEL: (919) 768-7988
	OPTIONAL STANDING SEAM METAL ROOF	FAX: (919) 472-0582
	KEYSTONE SOLDIER CROWN	
	JACK SOLDIER COURSE	
	WATER TABLE	
42.	ATRIUM DOOR	
_	PILASTER - SEE ELEVATION FOR TYPE	2018 NORTH
#	PARTIAL PLAN NOTES	
NOT	E: NOT ALL KEY NOTES APPLY.	CAROLINA STATE
31	+36" GUARD WALL DETAIL 84/AD5 OR 86/AD5	
		BUILDING
	FLAT SOFFIT - REFER TO PLAN OR ELEVATIONS FOR HEIGHT	
38.	NOT USED	CODES
39.	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	
43.	2x6 WALL	
44	2x6 BALLOON FRAMED WALL - REFER TO STRUCTURAL	
	DOUBLE 2x4 WALL	
	LINE OF FLOOR ABOVE	
47.	LINE OF FLOOR BELOW	
48.	EXTERIOR RAIL	
55.	THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE	ISSUE DATE: 02/23/17
	AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE	PROJECT No.: 1350999:56
56		
	SEPARATION BETWEEN SECOND FLOOR AND GARAGE CELLING, PROVIDE (1) LAYER OF $36$ "TYPE "X" GYPSUM BOARD, WALLS SUPPORTING SECOND FLOOR AND GARAGE CELLING, PROVIDE (1) LAYER OF $54^{\circ}$	
	SECOND FLOOR AND GARAGE CEILING: PROVIDE (1) LATER OF 12" GYPSUM BOARD	REVISIONS: 06/10/19
57.	EXTERIOR SHELF - REFER TO ELEV. FOR HEIGHT	_ ADD CRAWL SPACE
	SECTIONAL GARAGE DOOR - VERIFY WINDOW OPTION	* 1 NC18024NCP - 07/24/18 - CTD
#	FOUNDATION PLAN NOTES	A FLOORING BREAK REV
	E. NOT ALL KEY NOTES APPLY.	■ <u>2</u> NCI8040NCP · 08/28/18 · KJL ■
١.		_ A DIVISION REVISIONS
~		* 3 NCISO4INCP- 9/27/18 CTD
2.	CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER. 1'-0" MIN. TOWARD DOOR OPENING.	
З.	FOUNDATION PER STRUCTURAL.	2018 CODE UPDATE NCI90ISNCP/ 03/15/19 / CTD
4.	STAIR LANDING: 36"x36" MIN.	
5.	CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.	DIVISION REVISIONS     NC19017NCP/ 03/22/19 / CTD
6.	PROVIDE UNDER FLOOR VENTILATION	
7.	4" TOE KICK FOR MASONRY VENEER.	DIVISION REVISIONS     NC19039NCP/ 06/10/19 / MCP
8.	4" TOE RICK FOR MASONRY VENEER. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH	
υ.	WITH MIN. 12" EMBEDMENT INTO CONCRETE.	
٩.	REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE	FOR INTERNAL USE ONLY
	ELEVATIONS.	REVIEWED BY.
10.	VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL	2
П.	4" MIN. 7 3/4" MAX. TO HARD SURFACE.	9
12.	A/C PAD. VERIFY LOCATION.	
13.	CRAWL SPACE ACCESS	
14.	36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.	PLAN:
NOT		140.1582
THE R40	CRAWL SPACE IS TO BE CONDITIONED PER NC-R SECTION	· · · · · · · · · · · · · · · · · · ·
THE	CRAWL SPACE VAPOR RETARDER (BARRIER) IS TO BE PER	SHEET:
NC-	R SECTION R409.2.	•••• 8.C5
NOT	<u>E.</u>	
REF	ER TO BASIC ROOF PLAN FOR INFORMATION NOT WIN HERE	
		SPEC LEVEL 1
REF	ER TO BASIC FLOOR PLAN FOR INFORMATION NOT	<b>SPEC.</b> LEVEL $1 \angle \Box$
SHC	WN HERE	
NOT	<u>E:</u> ER TO BASIC <u>Eloor Plan</u> for information not WN HERE	RALEIGH·DURHAM
SHC	ER TO BASIC <u>ELOOR PLAN</u> FOR INFORMATION NOT WN HERE	
		40' SERIES
REF	ER TO BASIC ELEVATIONS FOR INFORMATION NOT	
SHC	WN HERE	J



Squash Blocks Required Under The Ends Of All LVL And Point Loads For Load Transfer - See Details

All I-Joist and Versa-Lam Beams Must be Installed per The Boise Cascade Installation Guide!

**First Floor Layout** 

# KB Homes 1582 Elev C Lot 55 Mason Pointe

	Products					
PlotID	Length	Product	Plies	Net Qty		
1	35' 0"	11-7/8" BCI® 5000s-1.8	1	11		
2	35' 0"	11-7/8" BCI® 5000s-1.8	2	4		
3	30' 0"	11-7/8" BCI® 5000s-1.8	1	12		
4	18' 0"	11-7/8" BCI® 5000s-1.8	1	14		
5	8' 0"	11-7/8" BCI® 5000s-1.8	1	4		
6	22' 0"	1-3/4" x 9-1/4" VERSA-LAM® LVL 2.1E 3100 SP	2	2		
7	20' 0"	1-3/4" x 9-1/4" VERSA-LAM® LVL 2.1E 3100 SP	2	2		
8	18' 0"	1-3/4" x 9-1/4" VERSA-LAM® LVL 2.1E 3100 SP	2	2		
Rm-1	12' 0"	1" x 11-7/8" BC RIM BOARD OSB	1	16		

Bk1 2'0" 11-7/8" BCI® 5000s-1.8

1 25

ALL DIMENSIONS AND CONDITIONS TO BE REVIEWED AND APPROVED BY BOTH THE CONTRACTOR AND THE ENGINEER OF RECORD PRIOR TO INSTALLATION



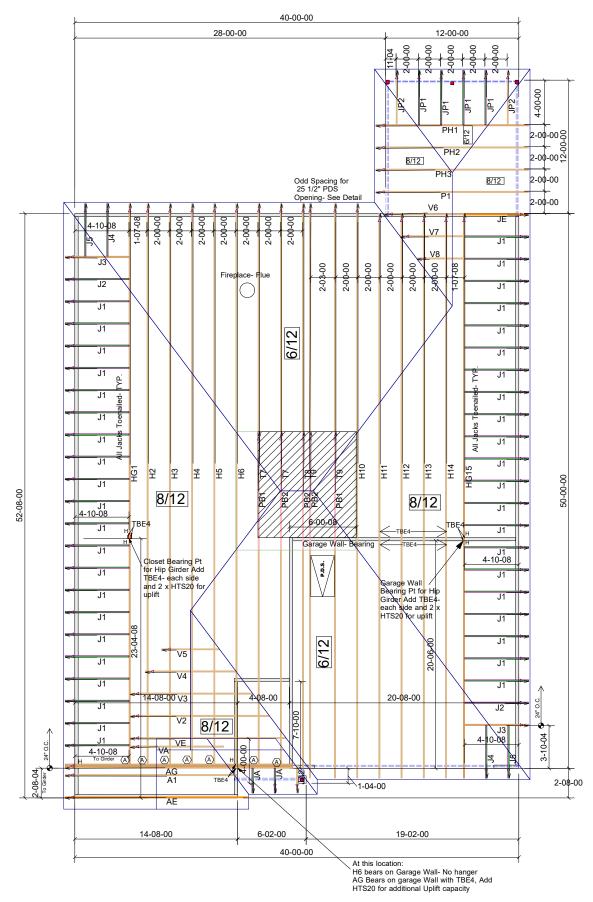
Revisions:

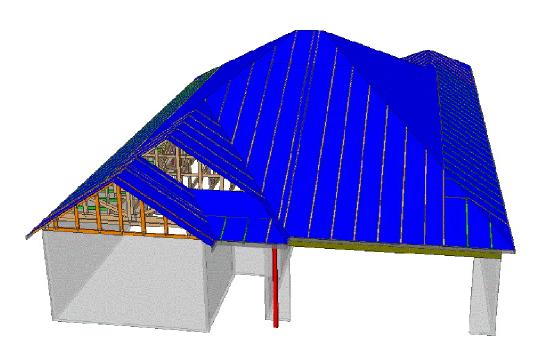
SALES PRESENTATION DRAWING No structural or dimensional check has been made of this des drawings of the building, therefore purchaser is to check and approve all dimsensions, quantities, loads, and details carefu This drawing has not been check by Boise Engineering.



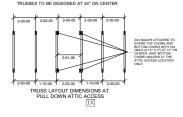
BC FRAMER II

Plan Date: 07242018 Structural Date: 07202018 By: KOG Sheet: 1/4 THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.





## 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



### Note:

1-TBE4 on layout for trusses H11-H14 at garage wall bearing 2- TBE4 at HG15 at garage wall bearing 3- TBE4 at HG1 at closet wall bearing

4- TBE4 at AG at entry wall

Truss Connector List					
Sym Manuf Product Qty					
Α	Simpson	HUS26	7		
•	-	-	-		
С	Simpson	TBE4	7 Sets		
Н	Simpson	HTS20	6		



DEDICATED TO QUALITY AND EXCELLENCE 200 EMMETT ROAD DUNN, NORTH CAROLINA 28334 PHONE: 910-892-8400 FAX: 910-892-8384

inte		(12 CP	оррек: 23378	SHIP DATE: 2020				
Lot 55 @ Mason Pointe	KB HOME	Plan 140.1582 "C" 12 x 12 CP	P.O. NUMBER: PO #	REV: XXXX				
-ot 55 @ I	KB	n 140.158	SCALE	PRINT DATE: 2/10/20				
PROJECT:	<u> </u>		SCALE: NOT TO SCALE	DRAWN BY: MWM				
TOP LIVE: 20 PSF								
тс	)P DE	EAD:	10 P	SF				
BO	TM D	EAD	: 10 I	PSF				
WIN	ID SF	D:	130 N	ЛРН				
GENERAL NOTES: DO NOT CUT OR MODIFY TRUSSES. TRUSSES ARE SPACED 24" ON CENTER UNLESS NOTED OTHERWISE. REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION DROUDER MEDIC								
E TRU TR CO CO O DES CO	OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS. PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECCOMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FOURDATION.							

# **STRUCTURAL PLANS FOR:**

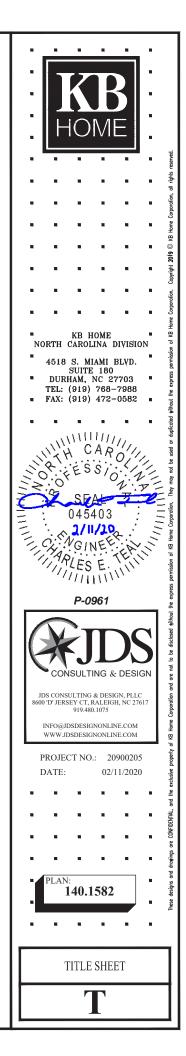


BUILT 140.1582 - RH GARAGE TO ORDER					
PLAN RI	ELEASE / REVISIONS				
REV DATE	ARCH PLAN VERSION	REVISION DESCRIPTIO	N		DRFT
02/11/2020	1582-140-01350_RH112619	INITIAL SETUP OF LAYOUT			CAR
	NOTES		CODE	ENGINEER OF RECO	0RD

NOTES	CODE	ENGINEER OF
<ol> <li>ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JDS CONSULTING &amp; 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.</li> <li>DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.</li> <li>PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:</li> <li>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.</li> <li>IF THESE PLANS ARE NOT 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.</li> <li>IF THESE PLANS STRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.</li> <li>DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.</li> </ol>	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 PROJECT REFERENCE: 2090

, PLLC SIGN, & CONSTRUCTION

0205



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

#### GENERAL

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIEVAL 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 2. 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.

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.

ĸs

KING STUD COLUMN

ABBREVIATIONS

ADDK	EVIATIONS	<b>N</b> 5	KING STUD COLUMN
		LVL	LAMINATED VENEER LUMBER
	ABOVE	MAX	
	ABOVE FINISHED FLOOR		MECHANICAL
ALT			
BRG		MFTR	
BSMT	BASEMENT	MIN	MINIMUM
CANT	CANTILEVER		NOT TO SCALE
CJ	CEILING JOIST		OVERALL
CLG	CEILING	OC	ON CENTER
СМО	CONCRETE MASONRY UNIT		PRESSURE TREATED
co	CASED OPENING	R	RISER
COL	COLUMN		REFRIGERATOR
CONC	CONCRETE		ROOFING
CONT	CONTINUOUS	RO	
D	CLOTHES DRYER	RS	
DBL	DOUBLE	SC	
	DIAMETER	SF	SQUARE FOOT (FEET)
DJ	DOUBLE JOIST	SH	SHELF / SHELVES
DN	DOWN	SHTG	SHEATHING
DP		SHW	SHOWER
DR	DOUBLE RAFTER	SIM	SIMILAR
DSP	DOUBLE STUD POCKET	SJ	SINGLE JOIST
EA	EACH	SP	STUD POCKET
EE	EACH END	SPEC'D	SPECIFIED
EQ	EQUAL	SQ	SQUARE
EX	EXTERIOR	т	TREAD
FAU	FORCED-AIR UNIT	TEMP	TEMPERED GLASS
FDN	FOUNDATION	THK	THICK(NESS)
FF	FINISHED FLOOR	ТJ	TRIPLE JOIST
FLR	FLOOR(ING)	TOC	TOP OF CURB / CONCRETE
FP	FIREPLACE	TR	TRIPLE RAFTER
FTG	FOOTING	TYP	TYPICAL
HB	HOSE BIBB		UNLESS NOTED OTHERWISE
HDR	HEADER	W	CLOTHES WASHER
HDR HGR			WATER HEATER
			WELDED WIRE FABRIC
JS	JACK STUD COLUMN	XJ	

### 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 Fv = 285 PSI E = 1.9E6 PSI

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

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

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

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

- 6. STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fy = 50 KSI
- 7. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60.
- 8. 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.
- 9. CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY PER TABLE R301.2(1) SHALL BE AIR-ENTRAINED WHEN REQUIRED BY TABLE R402.2.
- 10. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES
- 11. MORTAR SHALL COMPLY WITH ASTM INTERNATIONAL STANDARD
- 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
- 2. CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318.
- 3. MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 AND/OR AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND/OR THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES
- CONCRETE WALL HORIZONTAL REINFORCEMENT TO BE PER 4. 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.
  - В. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405
- 5. PLAIN-MASONRY WALL DESIGN TO BE PER <u>TABLE R404.1.1(1)</u> OR AS NOTED OR DETAILED. MASONRY WALLS WITH VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.1 (2 THROUGH 4) OR AS NOTED OR DETAILED. ALL MASONRY WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
  - A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
  - B WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT CENTERED IN WALL).
  - FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER C. 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.
- 7. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED, HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION
- 8. CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND GIRDERS SHALL CENTER IN THE MIDDLE THIRD OF THE PIERS
- ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).
- 10. ALL REBAR NOTED IN CONCRETE TO HAVE AT LEAST 2" COVER FROM EDGE OF CONCRETE TO EDGE OF REBAR.
- 11. FRAMING TO BE FLUSH WITH FOUNDATION WALLS.
- 12. WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

### FRAMING

- 3. WITH 2x4 STUDS @ 24" OC.
- CONSTRUCTION

7.

- LUMBER

  - DETAILS.
- SPECIFICATIONS.

- DRAWINGS.

- EACH END OF FLITCH BEAM

- SHALL BE MET.

ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.

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

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

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

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# LIPLIET CAPACITY

C. TRIM OUT COLUMN(S) AND BEAM(S) PER BUILDER AND

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

ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS A. SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION. B. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS

MANUFACTURER. C. INSTALLATION OF THE SYSTEMS SHALL BE PER

MANUFACTURER'S INSTRUCTIONS.

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

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.

ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS, UNO.

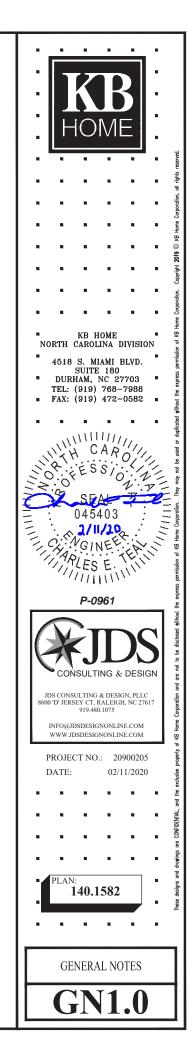
12. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2 EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM

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 FOUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE MANUFACTURER SPECIFICATIONS).

14. FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

15. FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.

16. BRACED WALL PANELS SHALL BE FASTENED TO MEET THE UPLIFT-RESISTANCE REQUIREMENTS IN CHAPTERS 6 AND 8 OF THE APPLICABLE CODE (SEE TITLE SHEET), REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM



FASTENER SCHEDULE		
CONNECTION 3" x 0.131" N		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 SPEED
2x4 @ 16" OC	10'-0"
2x4 @ 12" OC	12'-0"
2x6 @ 16" OC	15'-0"
2x6 @ 12" OC	17'-9"
2x8 @ 16" OC	19'-0"
2x8 @ 12" OC	22'-0"
(2) 2x4 @ 16" OC	14'-6"
(2) 2x4 @ 12" OC	17'-0"
(2) 2x6 @ 16" OC	21'-6"
(2) 2x6 @ 12" OC	25'-0"
(2) 2x8 @ 16" OC	27'-0"
(2) 2x8 @ 12" OC	31'-0"

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

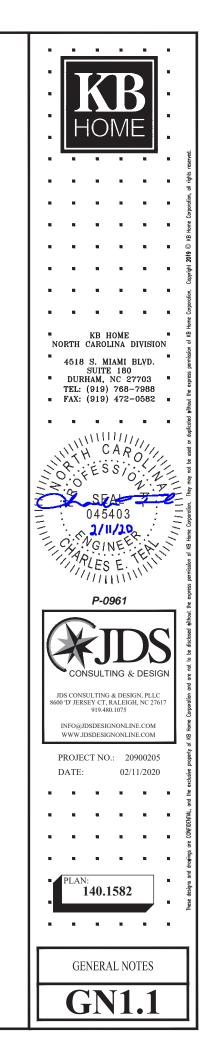
#### STICK-FRAMED ROOF - STRUCTURAL NOTES

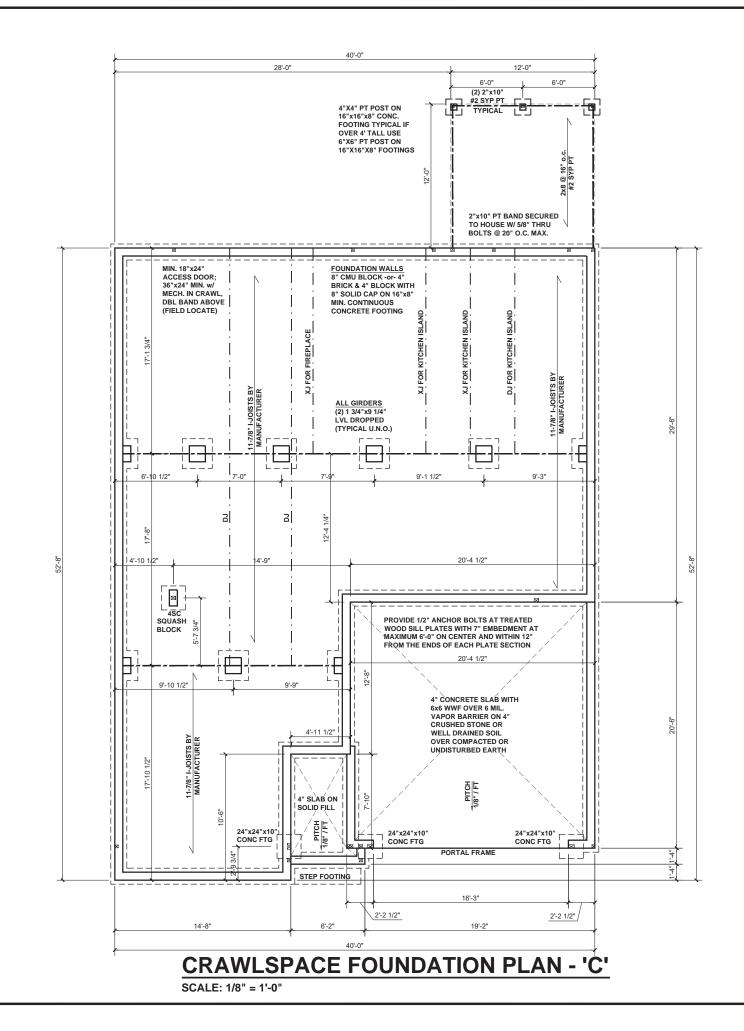
- 1. PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE.
- 2. FUR RIDGES FOR FULL RAFTER CONTACT.
- 3. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
- 4. DENOTES OVER-FRAMED AREA
- 5. MINIMUM 7/16" OSB ROOF SHEATHING
- PROVIDE 2x4 RAFTER TIES AT 16"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

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

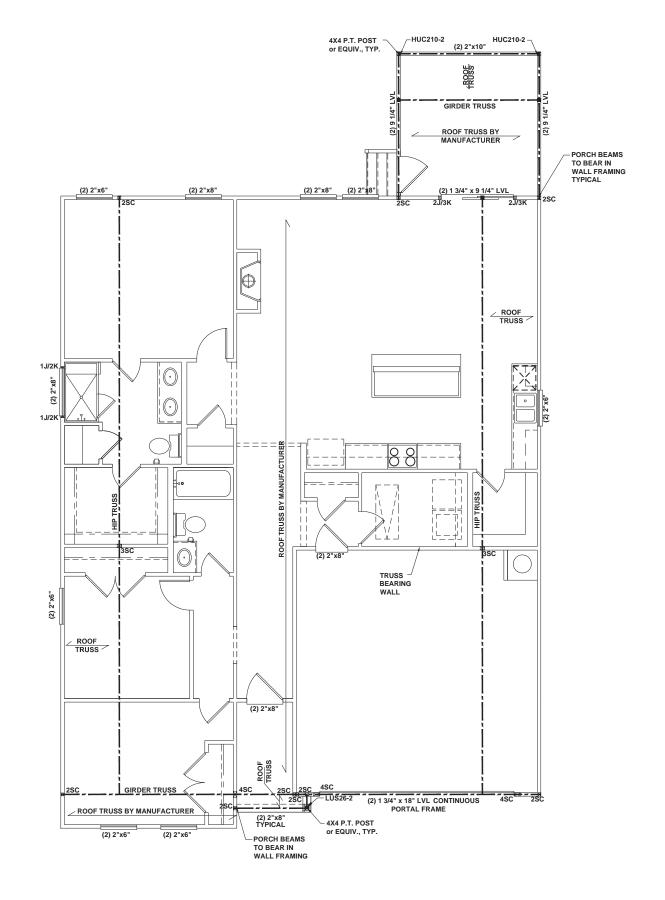
NOTE: BRICK LINTELS AT SLOPED AREAS TO BE 4"x3-1/2"x1/4"STEEL ANGLE WITH 16D NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" OC TO TRIPLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3"x3"x1/4" PLATES SHALL BE WELDED AT 24" OC ALONG THE STEEL ANGLE.





BEAM & POINT LOAD LEGEND	
INTERIOR LOAD BEARING WALL	
ROOF RAFTER / TRUSS SUPPORT	
DOUBLE RAFTER / DOUBLE JOIST	
WINDOW / DOOR HEADER	
POINT LOAD TRANSFER	
POINT LOAD FROM ABOVE	
BEARING ON BEAM / GIRDER	1.5
<u> </u>	
I-JOIST SPACING NOT TO EXCEED 19.2" OC	$  \cdot \cdot$
IN LOCATIONS WITH TILE FINISH FLOOR	1
**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR	1
SUBSTITUTION OF MANUFACTURER SERIES	1
	1
FLOOR FRAMING TO BE 11 7/8" DEEP TJI 210	· ·
SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING	
	1
8"x16" PIERS AT FOUNDATION WALL SUPPORTING	1
DROPPED GIRDER TO HAVE A 30"x10"x8" FOOTING PROJECTION FROM THE MAIN WALL FOOTING.	
PROSECTION TROM THE MAIN WALL FOOTING.	-
i	NORT
FOUNDATION STRUCTURAL NOTES :	45
1. CONCRETE BLOCK PIER SIZE SHALL BE:	DT DT
SIZE HOLLOW MASONRY SOLID MASONRY	TE
	= FA2
8x16 UP TO 32" HIGH UP TO 5'-0" HIGH 12x16 UP TO 48" HIGH UP TO 9'-0" HIGH	
16x16 UP TO 64" HIGH UP TO 12'-0" HIGH	1
24x24 UP TO 96" HIGH	
WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.	
	14
(1) #5 REBAR @ CENTER OFF ALL PERIMETER LOAD	1 20%
BEARING FOOTINGS. (2" C.C. MIN)	250





FIRST FLOOR CEILING FRAMING PLAN - 'C'

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

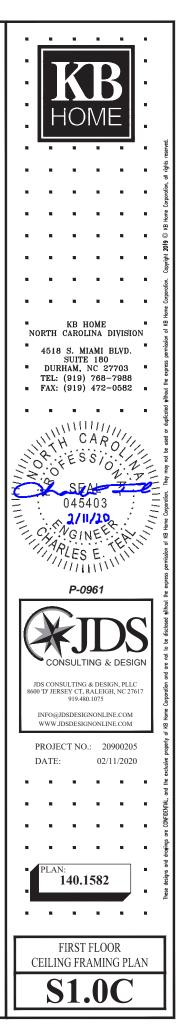
#### BEAM & POINT LOAD LEGEND

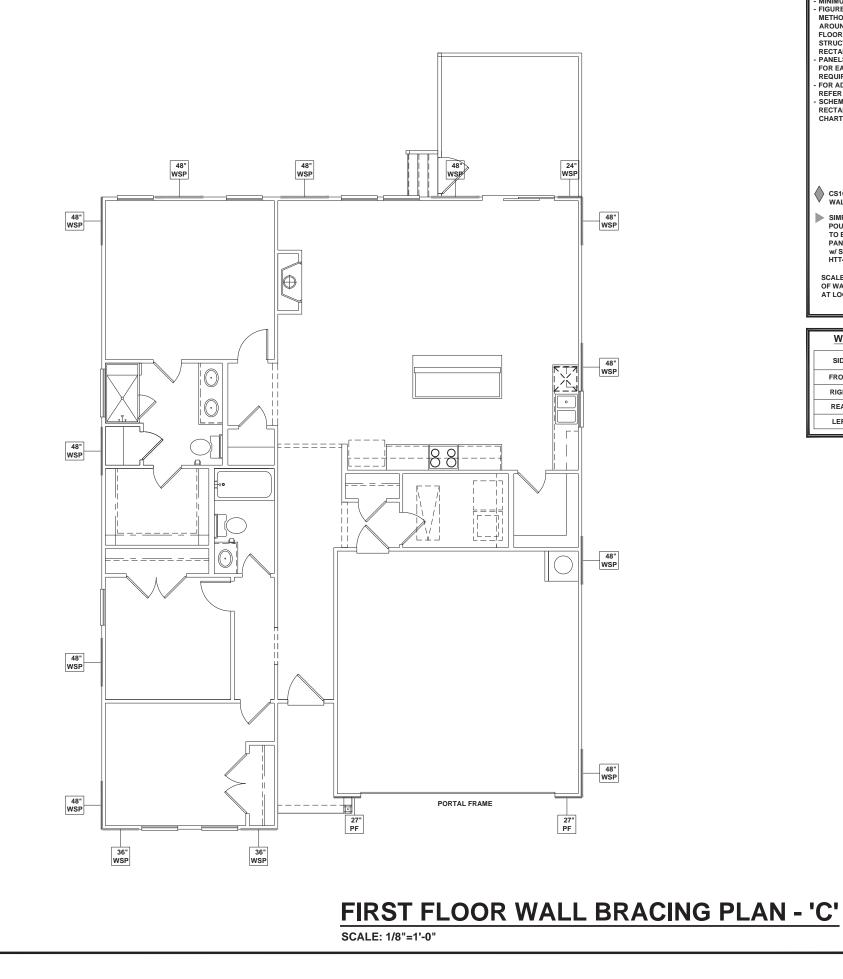
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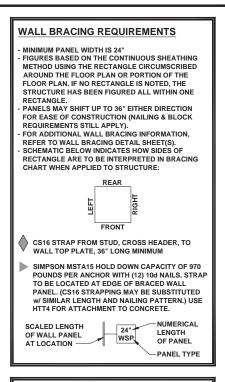
INTERIOR LOAD BEARING WALL ROOF RAFTER / TRUSS SUPPORT DOUBLE RAFTER / DOUBLE JOIST STRUCTURAL BEAM / GIRDER WINDOW / DOOR HEADER POINT LOAD TRANSFER POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

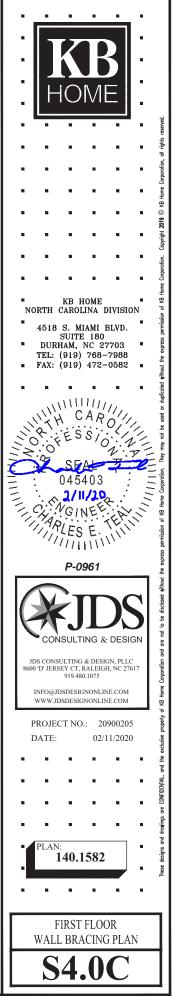
- 1. ALL FRAMING TO BE #2 SPF MINIMUM.
- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
- 3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
- 4. ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
- 5. PROVIDE CONTINUOUS BLOCKING 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" WIN 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° CC, 6° MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

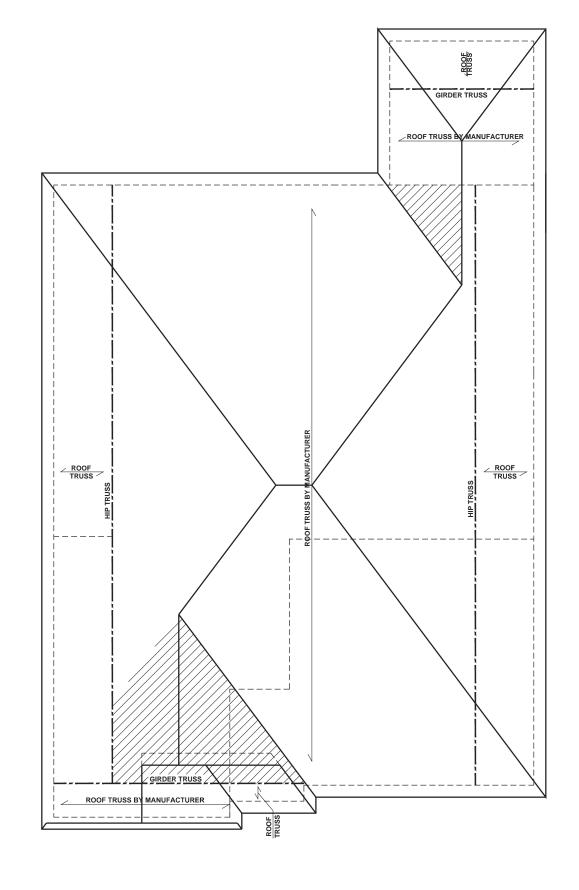






WALL BRACING: RECTANGLE 1		
SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	6.5 FT.	12.75 FT.
RIGHT	5.5 FT.	16.0 FT.
REAR	6.5 FT.	14.0 FT.
LEFT	5.5 FT.	16.0 FT.

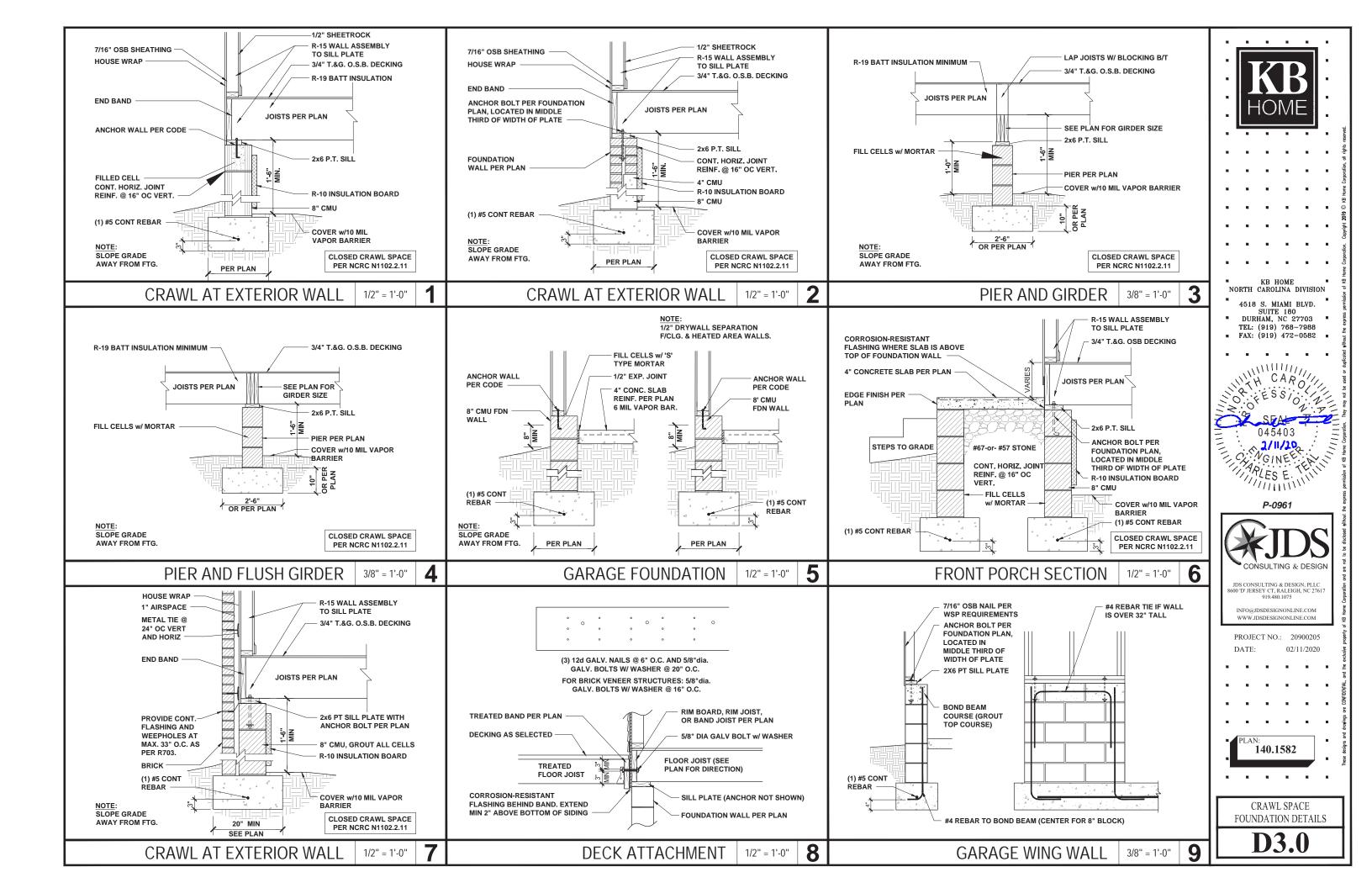


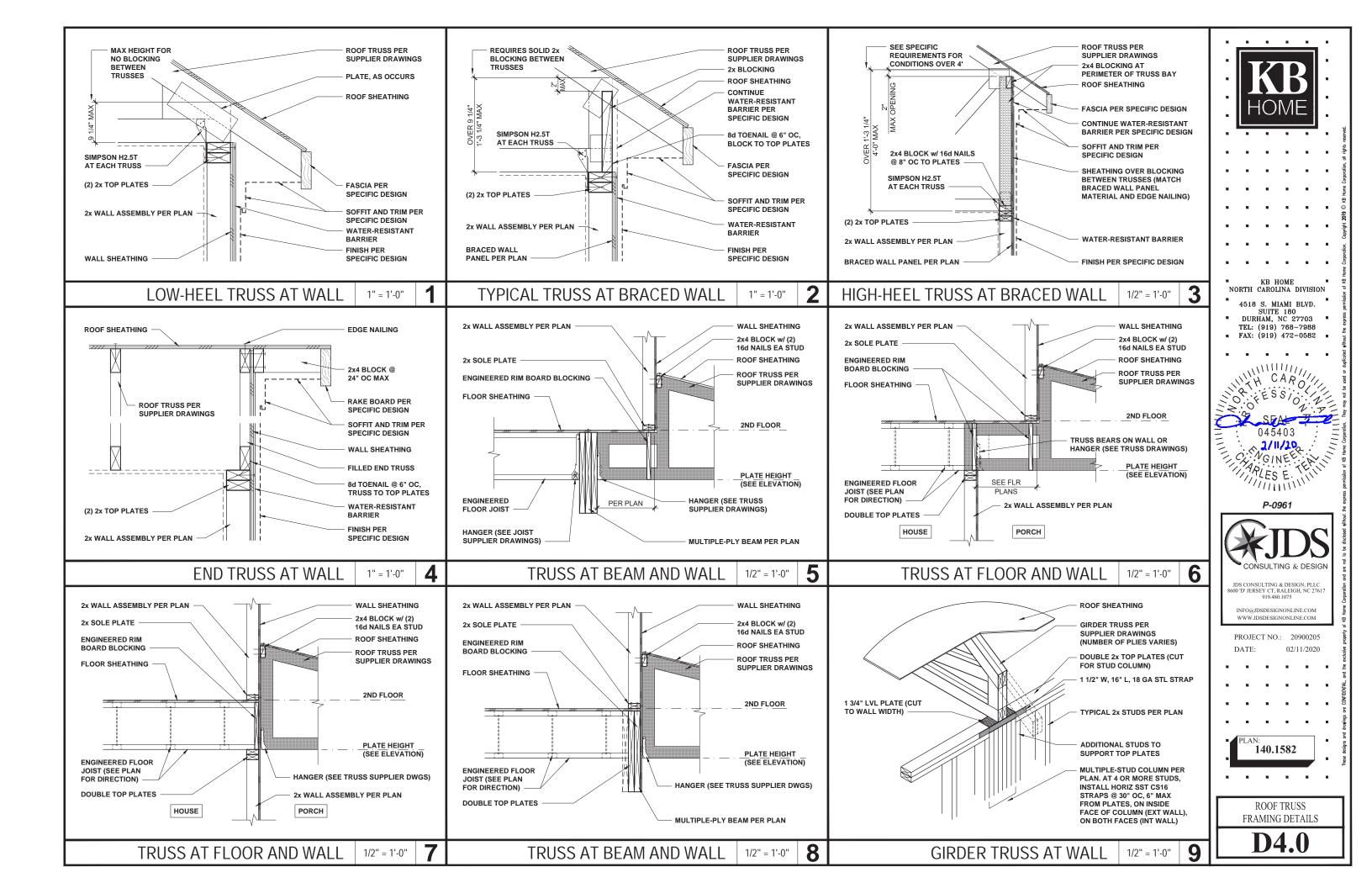


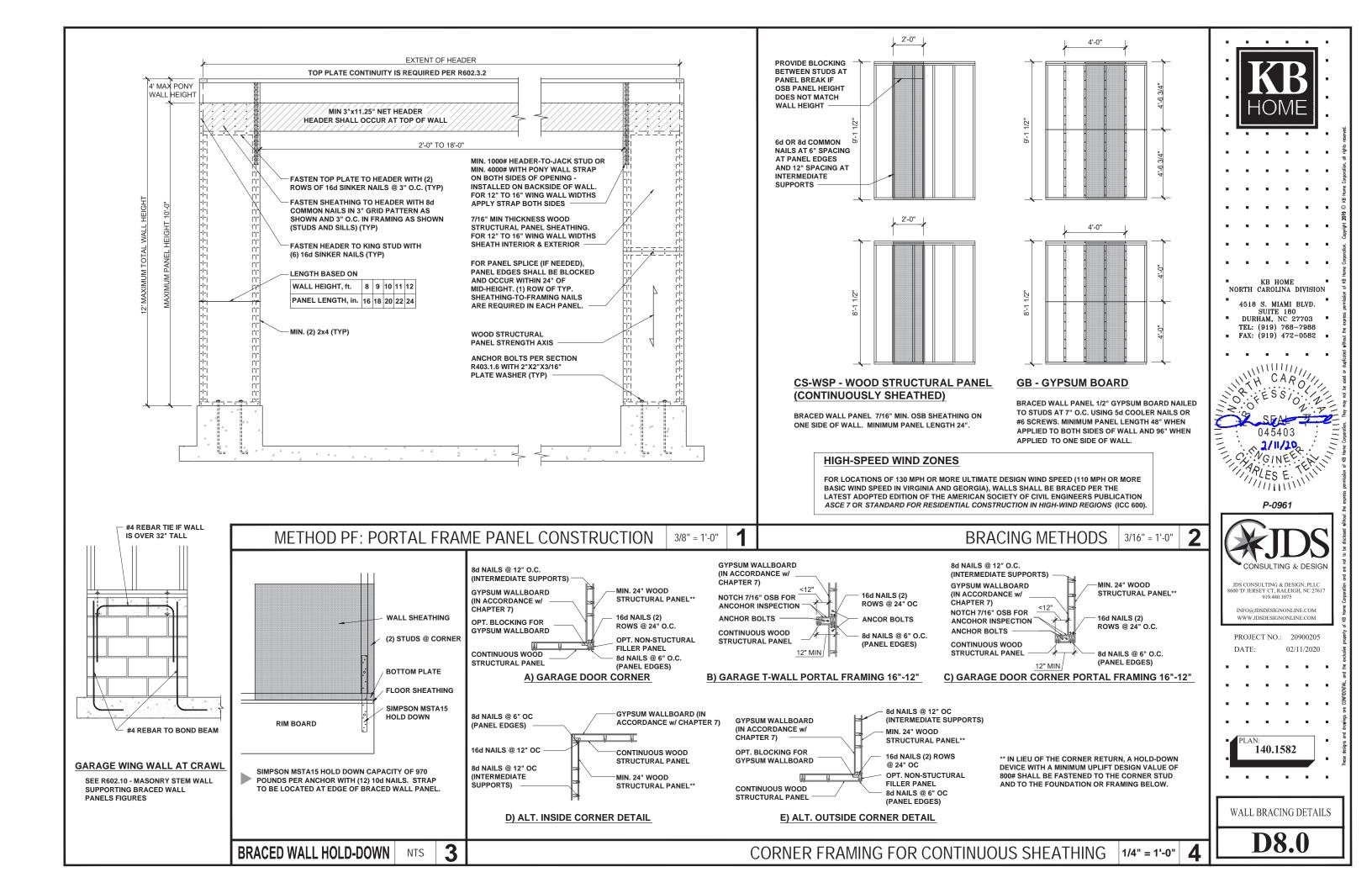
**ROOF FRAMING PLAN - 'C'** 

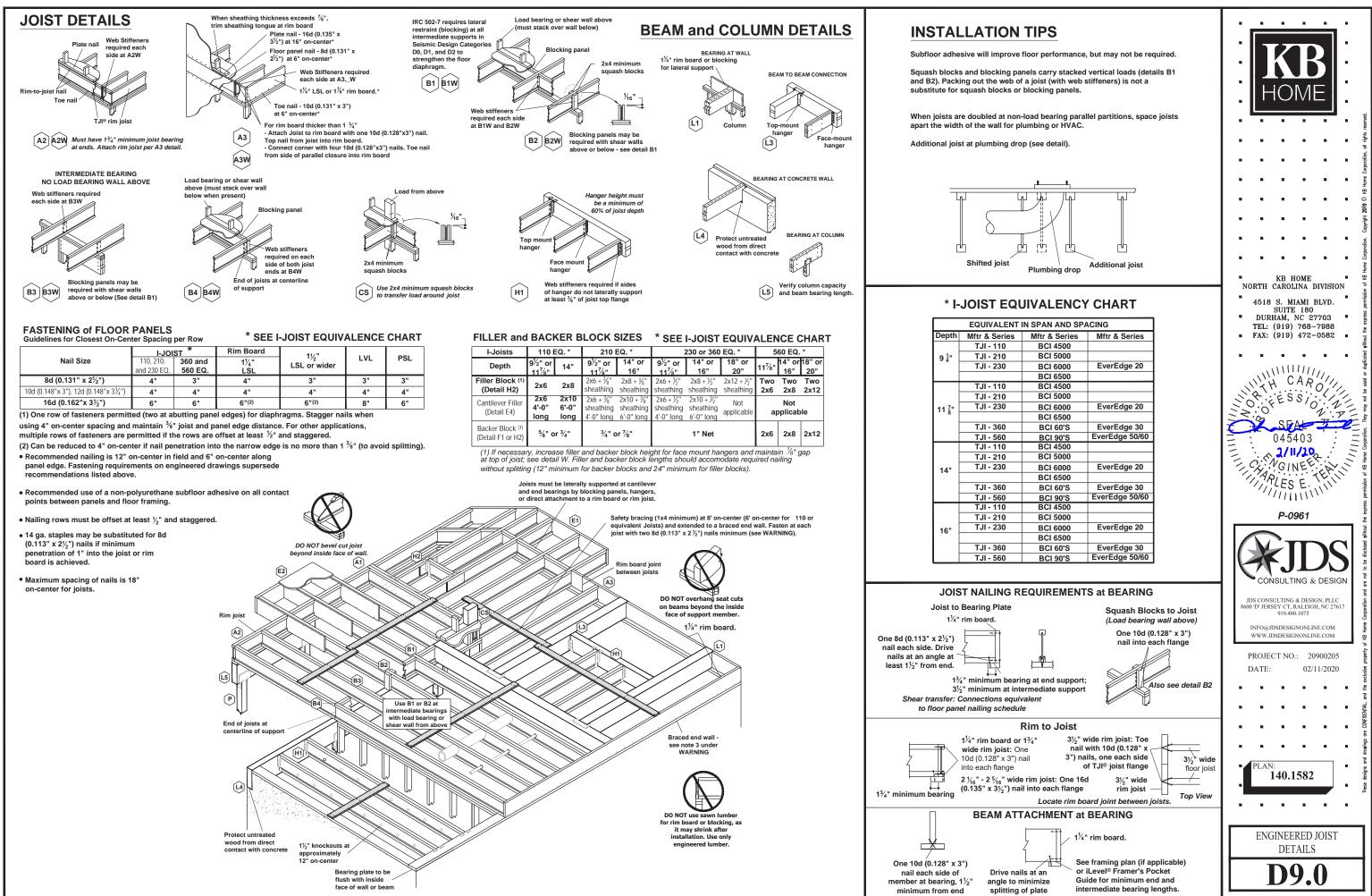
SCALE: 1/8"=1'-0"

BEAM & POINT LOAD LEGEND         INTERIOR LOAD BEARING WALL         ROOF RAFTER / TRUSS SUPPORT         DOUBLE RAFTER / DOUBLE JOIST         STRUCTURAL BEAM / GIRDER         WINDOW / DOOR HEADER         POINT LOAD TRANSFER         POINT LOAD FROM ABOVE         BEARING ON BEAM / GIRDER	
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.	КВ НОМЕ NORTH CAROLINA DIVISION 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582
TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING         TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS, OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE:         ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.         ROOF PLAN UP TO 28'       CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION         OVER 28'       (1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM         OR       (1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE	Aul         SEAL         111111111111111111111111111111111111
	CONSULTING & DESIGN, PLIC 8600 D' JERSEY CT, RALEIGH, NC 27617 919480.1075 INFO@JDSDESIGNONLINE.COM WWW.JDSDESIGNONLINE.COM WWW.JDSDESIGNONLINE.COM WWW.JDSDESIGNONLINE.COM UROJECT NO.: 20900205 DATE: 02/11/2020









ENT IN SPAN AND SPACING			
es	Mftr & Series	Mftr & Series	
	BCI 4500		
	BCI 5000		
	BCI 6000	EverEdge 20	
	BCI 6500		
	BCI 4500		
	BCI 5000		
	BCI 6000	EverEdge 20	
	BCI 6500		
	BCI 60'S	EverEdge 30	
	BCI 90'S	EverEdge 50/60	
	BCI 4500		
	BCI 5000		
	BCI 6000	EverEdge 20	
	BCI 6500		
	BCI 60'S	EverEdge 30	
	BCI 90'S	EverEdge 50/60	
	BCI 4500		
	BCI 5000		
	BCI 6000	EverEdge 20	
	BCI 6500		
	BCI 60'S	EverEdge 30	
	BCI 90'S	EverEdge 50/60	