SHEET INDEX



NORTH CAROLINA **50' SERIES PLAN 150.1446**

LOT 19 MASON POINTE -ELEVATION B

PLA	N #150.1446	
TS GNI GN2 GN3	TITLE SHEET GENERAL NOTES GENERAL NOTES GENERAL NOTES	DECK OPTIONS 7.1 PARTIAL PLANS & ELEVAT 7.2 PARTIAL PLANS & ELEVAT PATIO OPTIONS
FL00	R PLANS FLOOR PLAN 'A' FLOOR PLAN 'A'B/C/D' W/ CRAWL SPACE FLOOR PLAN (PTIONS	SAI PARTIAL FLOOR PLAN, ROC SA2 PARTIAL FLOOR PLANS, RC SA3 PARTIAL FLOOR PLANS, RC SA4 PARTIAL FLOOR PLANS, RC
5 AB	INTERFACE & FOUNDATION PLANS	8.A5 PARTIAL FLOOR PLAN, ROO
1.3 SLAB 2.1 2.2 2.2 2.3 2.2.5 2.4 2.5 2.4 2.5 2.4 2.5 2.4 3.44 3.45 3.44 3.45 3.883 3.84 3.82 3.83 3.84 3.85 3.86 3.87 3.82 3.88 3.86 3.87 3.82 3.86 3.82 3.86 3.82 3.82 3.64 3.85 3.86 3.87 3.82 3.82 3.82 3.82 3.64 3.85 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.73	FLOOR PLAN OFTIONS INTERFACE 4 FONDATION PLANS SLAD INTERFACE FLAN 'A' PARTIAL SLAD INTERFACE PLAN D' CRAVL SPACE FONDATION PLANS D' & C' PARTIAL SLAD INTERFACE PLAN D' CRAVL SPACE FONDATION PLANS D' & C' PARTIAL CRAVL SPACE FONDATION PLANS D' & C' PARTIAL CRAVL SPACE FONDATION PLANS D' CRELEVATIONS COR ELEVATIONS ROOF PLAN, FRONT & REAR ELEVATIONS 'A' LETT & RIGHT ELEVATIONS 'A' PARTIAL FLOOR PLAN, FRONT & LETT ELEVATION 'A' AT CRAVL SPACE PARTIAL FLOOR PLAN, FRONT & LETT ELEVATIONS 'A' AT CRAVL SPACE PARTIAL FLOOR FLAN, FRONT & LETT ELEVATIONS 'A' AT CRAVL SPACE REAR LETT & RIGHT ELEVATIONS 'A' PARTIAL FLOOR FLAN, FRONT & LETT ELEVATIONS 'A' AT CRAVL SPACE REAR LETT & RIGHT ELEVATIONS 'A' CRAVL SPACE REAR LETT & RIGHT ELEVATIONS 'A' AT CRAVL SPACE PARTIAL FLOOR FLAN, FRONT & LETT ELEVATIONS 'B' AT CRAVL SPACE PARTIAL FLOOR FLAN, FRONT & LETT ELEVATIONS 'B' AT CRAVL SPACE PARTIAL FLOOR FLAN, FRONT & TO FTIONAL ''' PLATE HEIGHT PARTIAL FLOOR FLAN, FRONT & TO FTIONAL ''' PLATE HEIGHT PARTIAL FLOOR FLAN, FRONT & TO FTIONAL ''''''''''''''''''''''''''''''''''''	 BA4 PARTIAL FLOOR PLAN, RO BA5 PARTIAL FLOOR PLAN, RO BA6 PARTIAL FLOOR PLAN, RO BB PARTIAL FLOOR PLAN, RO BC PARTIAL FLOOR PLAN, RO C PARTIAL PLAN, PLAN, RO C PARTIAL PLOOR PLAN, RO C PARTIAL PLOOR PLAN, RO C PARTIAL PLOOR PLAN, RO C PARTIAL PLAN, PLA
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	AB	BRE	EVIATIO	ONS		ARC	H. SYMBOLS	CONSULTANTS	SQ	UARE FOOT	AGE			CODE
ABV. A/C ADJ. ALT AMP. BD. & CAB.	ABOVE AIR CONDITIONING AD_USTABLE ALTERNATE AMPERAGE BOARD CENTER LINE CABINET	G.F.I. G.I. GL. GYP. BD. H.C. HDR.	GROUND-FAULT CIRCUIT INTERRUPTER GALVANIZED IRO GLASS GYPSUM BOARD HOLLOW CORE HEADER	R.O. 5 & P 5.C. 5.D. 5EC. 5.H. 5HT. 5HT.	ROUGH OPENING SHELF AND POLE SOLID CORE SMOKE DETECTOR SECTION SINGLE HUNG SHEET SHEATHING	A + #.# *	BUILDING SECTION SECTION INDICATOR	OMNER : KB HOME NORTH CAROLINA DIVISION 4506 S, MIAMI BLVD, SUITE IOO DURHAM, NC 21T03 TEL. (414) T66-1480 ARCHITECT KB HOME	FIRST FLOOR TOTAL AI GARAGE AREA PORCH AREA(S)	PLAN 150.1446 AREA ELEVATION 'A' ELEVATION D' ELEVATION D' ELEVATION D'	1446 SQ. FT. 1446 SQ. FT. 422 SQ. FT. 50 SQ. FT. 50 SQ. FT. 121 SQ. FT. 127 SQ. FT.	APPI 2018 N BUILDIN CODE, CODES	ICABLE IORTH CARC IG CODE: RI INCLUDING F AND STANE	CODES: DLINA STATE ESIDENTIAL ZEFERENCED DARDS
CLG. CLR. CONC. CPT. C.T. D.BL. DIG. DIA. DISP. DL. DP. DR. DR. DS.	CEILING CLEAR CONCRETE CARPET CERAMIC TILE DRYTER DUAL GLAZED DIAMETER DIMENSION DISPOSAL DIVIDED LIGHT DEEP DOOR DOOR	HGT. / HT. H.H. HS ILL.O. INSUL. INT. LAM. LAM. LAM. LAM. LUM. MC. MFR. MIN. MTL. N.I.C.	HEADER HEIGHT HEADER HEIGHT HORIZONTAL SLIDER IN LIEU OF INSULATION INTERIOR LAVATORY LIMINOUS MEDICINE CABINE MINIMUM MONTED METAL NOT IN CONTRACT	SHINR. SIM. SL. SL. SL. STD. S.V. TEMP. THK. T.O.C. T.O.P. T.O.S. TYP. U.N.O. T.V.P. W.	SHOVER SIMILAR SUIDING GLASS SILIDING GLASS STANDARD SHEET VINYL TEMPERED GLASS THICK TOP OF CURB TOP OF CURB TOP OF SLAB TYPICAL UNLESS NOTED OTHERNISE VAPOR PROOF MASHER	# (ADI*	DETAIL REFERENCE DETAIL NIMBER SHEET NUMBER KEYNOTE REFERENCE REFERENCE NUMBER OFFSET REFERENCE DIFFERENTIAL IN FLOOR LEVEL. OR FINISH SURFACE	5220 PACIFIC CONCOURSE DRIVE, SUITE 330 LOS ANGLES, CA 90045 TEL. (424) 244-9100 PAX. (424) 247-2611	OPTIONS. PATIO AREA(S) DECK AREA(S)	COVERED PATIO EXTENDED COVERED PATIO SCREENED-IN COVERED PATIO EXTENDED SCREENED-IN COV. PATIO OPEN DECK EXTENDED OPEN DECK SCREENED-IN DECK EXTENDED SCREENED-IN DECK	100 Sa. FT. 200 Sa. FT. 100 Sa. FT. 100 Sa. FT. 144 Sa. FT. 240 Sa. FT. 240 Sa. FT.	PRO. I STOR RESIDE 0CCI R3 CONS V - B	JECT DE 7 SINGLE FA NTIAL PLAN JPANCY 3TRUCTI(SCRIPTION: MILY DETACHED W 4 ELEVATIONS : ON TYPE: RE
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DE INFORMATION

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

REVISION LIST

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GENERAL REQUIREMENTS

- THE WORD 'CONTRACTOR' AS USED HEREIN SHALL MEAN THE GENERAL CONTRACTOR, SUBCONTRACTORS AND ALL PERSONS DIRECTLY OR RECTLY EMPLOYED BY ANY OF THEM
- CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODE REQUIREMENTS: 2.
 - ALL LAMS, STATUTES, THE MOST RECENT BUILDING CODES, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITES HAVING JURISDICTION OVER OWNER, CON-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 OHISOTOS 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, MITHOUT THE ARREEMENT OF ONERC CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH MORK AND SHALL BEAR THE RESULTANT LOSSES, INCLUDING, MITHOUT 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 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 DAMASED 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 HIS/HERS SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SILL DETERMINE HOW SOON AFTER SUB-CONTRACTORS. BUILDER WILL DETERMINE HOW SOON AFTER SUB-CONTRACTORS. BUILDER WILL DETERMINE HOW THAT TRASH AND DEDRIS WILL BE REMOVED FROM THE SITE.
- APPROVAL BY THE BUILDING INSPECTOR DOES NOT MEAN APPROVAL OR ALLOWABLE FAILIRE TO COMPLY WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGUOS WIGHT 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 ON "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
- FOR ONSITE CONTRUCTION, PLANS TO COMPLY WITH NECESSARY INSPECTIONS APPROVED BY THE BUILDING OFFICIAL. 14
- THE REQUIREMENTS IN THESE NOTES ARE THE MINIMUM THAT SHALL BE MET. REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE REQUIREMENTS SHOWN HERE SHALL BE MET. 15.

CONCRETE

- REFER TO STRUCTURAL ENGINEERING CALCULATIONS AND SOILS REPORT FOR THE PERFORMANCE REQUIREMENTS FOR CONCRET FOUNDATIONS
- CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE COMPRESSIVE STRENGTH AS PRESCRIBED IN THE N.C.-R, AS WELL AS SATISFY THE DURABILITY CRITERIA OF THE N.C.-R
- MIXING OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318, SECTION 5.8.
- THE DEPOSITING OF CONCRETE SHALL COMPLY WITH THE PROVISIONS ACI 318, SECTION 5.10.
- THE CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318, SECTION 5.11.
- ALL FORM WORK SHALL BE DESIGNED, CONSTRUCTED, UTILIZED, AND REMOVED.
- CONDUIT, PIPES AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN THE LIMITATIONS OF ACI 318, SECTION 6.3, ARE PERMITTED TO BE 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" H.J.D.) ABOVE FINISH GRADE.
- FOUNDATION WIDTHS, DEPTHS, AND REINFORCING, AS SHOWN ON PLANS, ARE SUPERCEDED BY ANY LOCAL CODES OR ORDINANCES WHICH REQUIRE INCREASES OF THE SAME.
- 12 ALL REINFORCEMENT, CONDUIT, OUTLET BOXES, ANCHORS, HANGERS SLEEVES, BOLTS OR OTHER 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 OF N.C.-R, AND SECTIONS 6.1 AND 6.2 OF ACI 530/ASCE 5/TMS 402. 2
- STONE VENEER UNITS NOT EXCEEDING 5 INCHES IN THICKNESS SHALL BE ANCHORED DIRECTLY TO MASONRY, CONCRETE OR TO STUD CONSTRUCTION BY ONE OF THE APPROVED METHODS LISTED IN THE N.C.-R
- MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL COMPLY WITH ASTM C 270. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE WITH THE N.C. R AND SHALL MEET THE REPORTION SPECIFICATIONS OR THE PROPERTY SPECIFICATIONS OF ASTM C 270
- GROUT SHALL CONSIST OF FIDER coment 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 RUNNING BOND PATTER!
- IO. ANCHORS, TIES AND WIRE FABRIC SHALL CONFORM TO N.C.-R
- ANCHOR TIES AND MIRE FABRIC FOR USE IN MASONRY WALL CONSTRUCTION SHALL CONFORM TO THE N.C.-R

METALS

LUMBER

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

WOOD & FRAMING

THE DESIGN AND CONSTRUCTION OF CONVENTIONAL LIGHT-FRAME WOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE N.C.-R

- CONSTRUCTION, PROJECTIONS, OPENINGS AND PENETRATIONS OF EXTERIOR WALLS OF DWELLINGS AND ACCESSORY BUILDINGS SHALL COMPLY WITH TABLE R302.1.
- ALL LUMBER SHALL MEET THE STANDARDS OF QUALITY AS STATED IN THE N.C.-R
- LUMBER AND 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 2. THE FOLLOWING LOCATIONS SHALL REGURE THE USE OF NATURALLY DRABLE WOOD OR NOOD THAT IS PRESERVATIVE TREATED IN ACCORDANCE WITH ANPA 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. 16 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 BUILDING 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 FROM THE GROUND BY AN APPROVED IMPERVIOUS MOISTURE BARRIER.
- THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 0.5 INCH ON TOPS, SIDES AND ENDS.
- 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 DY 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 DOWN, INCLUDING FOSTS, GUARDRAILS, PICKETS, STEPS AND FLOOR STRUCTURE. COVENINGS THAT WOLD PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE OR AT JOINTS BETWEEN MEMBERS ARE ALLOWED.
- IN AREAS SUBJECT TO DAMAGE FROM TERMITES METHODS OF PROTECTION SHALL BE ONE OF THE METHODS LISTED IN THE N.C.-R 3
- UNDER-FLOOR AREAS SHALL BE VENTILATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R

WOOD & FRAMING

(continued)

FLOOR FRAMING

ROOF FRAMING

MALL FRAMING

5.

REQUIREMENTS OF THE N.C.-R

- WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE N.C.-R
- ROOF SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. 2.
 - ROOF SHEATHING SHALL BE IN ACCORDANCE WITH THE N.C.-R
 - FLOOR SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
 - STRUCTURAL FLOOR SHEATHING SHALL COMPLY WITH THE PROVISIONS OF THE N.C.-R

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

SECURELY ATTACHED TO FRAMING MEMBERS AND USE AN UNDERLAYMENT MATERIAL OF EITHER FIRE RETARDANT TH

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.

IN ONE- AND TWO-FAMILY DWELLING CONSTRUCTION USING HARD BOARD OR ALLMINUM AS A SOFFIT MATERIAL. THE SOFFIT MATERIAL SHALL BE

SALEALITEM THATENTAL ETHER THE ALTENT ALTENT TO ALTENDED TO A AND THE ALTENDED AND ALTENDED AND THE ALTENDED AND ALTENDED

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 WITHOUT THE APPROVAL OF A REGISTERED DISIGN PROFESSIONAL. 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

PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHEREIN THE PROJECT IS TO BE BUILT.

MANUFACTURER IS TO SECURE BUILDING DEPARTMENT APPROVA

OF CALCULATIONS AND SHOP DRAWINGS PRIOR TO FABRICATION

THE SIZE, HEIGHT, AND SPACING OF STUDS SHALL BE IN ACCORDANCE 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 NOTES SHALL BE NOT LESS THAN 2-INCHES NOMINAL THICKNESS AND HAVE 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 LARGER PLATE OR SILL HAVING A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS.

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

WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE

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

WOOD & FRAMING

(continued)

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

- NOTHCING, ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE GUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 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 MIDT, THE EDGE OF THE HOLE IS NO MORE THAN 5/8/* INCH TO THE EDGE OF THE STUD, AND THE HOLE SHALL NOT BE CLOSER THAN 6 INCHED 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 MALLS OR BEARING PARTITIONS DRILLED OVER 40 PERCENT AND UP TO 60 PERCENT SHALL ALSO DE 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 INTEROR WALLS AND BEARING PARTITIONS, PROVIDED THAT ONE OF THE FOLLOWING CONDITIONS ARE MET. (a) THE WALL SECTION IS REINFORCED WITH 1/2-INCH EXTERIOR GRADE PLYMOOD OR EQUIVALENT REINFORCHMENT ON THE NOTCHED SIDE OF THE WALL, PLYMOOD, IF USED, SHALL REACH FROM THE FLOOR TO CELLING AND AT LEAST ONE STUD PUTTHER 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 PLYMOOD OR EQUIVALENT REINFORCEMENT ON THE NOTCHED SIDE OF THE MALL REACH AND AT LEAST ONE STUD FURCHED SIDE OF THE MALLS OF A KITCHEN MAY BE REINFORCEMENT ON THE NOTCHED SIDE OF THE MALLS OF A KITCHEN MAY BE REINFORCEMENT ON THE NOTCHED SIDE OF THE MALL PLYMOOD, IN USED, SHALL REACH FROM THE FLOOR TO COUNTER-TOP HEIGHT AND AT LEAST ONE STUD FURCHED ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.
- WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTIALY IN AN EXTERIOR MER TIFING VE DIGTORMS IS FLACED IN OR FARINGLT IN AN EALENCE OR INTERIOR LOAD-BEARING WALL NECESSITATION CUTTING, DRILLING OR NOTCHING OF THE TOP FLATE B MORE THAN SO PERCENT OF ITS WIDTH A GALVANIZED METAL THE OF NOT LESS THAN O.OSH 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 MILLBOARD

BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE SHALL BE PERMITTED AS AN ACCEPTABLE FIRE BLOCK.

BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE ID FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL RONG OF STUDS OR STASGERED STUDS. LOOSE FILL INSULATION 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 GRASPEN. AND HOT GASSES.

WHEN THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED MERT ITERE IS USABLE SHALLS BOTH ABVE AND BELAT THE CONCEALED SPACE OF A FLOOR/CELING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS, WHERE THE ASSEMBLY IS ENCLOSED BY A REFLOOR MEMORANE ABOVE AND A CELLING MEMORANE BELOW, 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 REQUIRED



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, WEATHERPROOF 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 FREVENT ENTRY OF WATER INTO THE WALL 12. CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA TII, FUID-APPLED MEMBRANES USED AS FLASHING SHALL EXTERIOR MALLS SHALL COMPLY WITH AAMA TIA. THE FLASHING SHALL EXTERIOR THE SUFFACE OF THE EXTERIOR WALL FINISH. ALUMINUM FLASHING SHALL CONTELY 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., ECR-1027, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, OR APPROVED EQUAL.
- ALL BEAMS OUTLOOKERS, CORBELS, ETC. PROJECTED THROUG 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 ALL SHEEL NEILS, NORK SHALL BE FERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMAC.NA), THE ARCHITECTURAL SHEET METAL MAWAL, AND SEALANT, WATERROOFING AND RESTORATION INSTITUTE'S (SWR.I.) GUIDE -"SEALANTS' THE PROFESSIONAL'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 ALLMINUM SEAMS WITH EPOXY METAL SEAM CEMENT, WHERE REQUIRED FOR STRENGTH, RIVET SEAMS AND JOINTS.
- SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE IN ACCORDANCE WITH APPLICABLE STANDARDS TO PROVIDE A PERMANENTLY WATER-PROOF, WEATHER RESISTANT INSTALLATION.
- ASPHALT SHINGLES SHALL HAVE SELF-SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR D 3462.
- BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS'I INSTALLATION INSTRUCTIONS, BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL OF MINIMUM NOMINAL O.OIR-INCH THICKNESS OR MINERAL SURFACE ROLL ROOFING HEIGHING A MINIMUM OF TT POUNDS FOR IOD SQUARE FEET. CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMUM NOMINAL O.OIR-INCH THICKNESS 10.
- VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED AS STATED PER THE N.C.-R.
- A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHINNEY OR PENETRATION MORE THAN 30 INCHES MIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVENINGS SHALL BE SHEET METAL OR OF THE SADE MATERIAL AS THE ROOF COVENING PROVINCE FLASHING AT THE INTERCETION OF ORICKET OR SADDLE AND 12.
- Flashing against a vertical sidewall shall be by the step-flashing method per NC-R. 13.
- ASHING AGAINST A VERTICAL FRONT WALL, AS WELL AS SOIL STACH ENT PIPE AND CHIMNEY FLASHING, SHALL BE APPLIED ACCORDING TO SPHALT 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.OI9 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 CHARACTER, QUALITY, AND LIMITATIONS OF APPLICATION OF THE MATERIALS.

THERMAL & MOISTURE

PROTECTION (continued)

- ROOF COVERING MATERIALS SHALL BE DELIVERED IN PACKAGES BEARING E MANUFACTURER'S IDENTIFYING MARKS AND APPROVED TES AGENC THE MANUFACTORERS IDENTIFING MARKS AND APPROVED TESTING A LABELS WHEN REQUIRED. BULK SHIPMENTS OF MATERIALS SHALL BE ACCOMPANIED BY THE SAME INFORMATION ISSUED IN THE FORM OF A CERTIFICATE OR ON A BILL OF LADING BY THE MANUFACTURER
- COMPOSITION ROOFING SHINGLES SHALL BE OF ASPHALT OR APPROVED RELATED MATERIALS AND MEET THE REQUIREMENTS OF THE N.C.-R
- UNDERLAYMENT FOR ASPHALT SHINGLES SHALL CONFORM TO ASTM D 226 TYPE I, ASTM D 4869, TYPE I, OR ASTM D 6151. SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET SHALL COMPLY WITH ASTM D 1910
- 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 GASE SHANK MITH A MINIMUM 3/6 INCH DIAVETER HEAD, ASTM F 1667, OF A LENSTH TO PENETRATE THROUGH THE ROOFING MATERIALS AND A MINIMUM OF 3/4 INCH INTO THE ROOF SHEATHING. WHERE THE ROOF SHEATHING IS LESS THAN 3/4 INCH THICK, THE FASTENERS SHALL PENETRATE THROUGH THE SHEATHING. FASTENERS SHALL COMPLY WITH ASTM F 16470005 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 FER. STRIP SHINGLE OR TWO FASTENERS FER 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 (2-1/2), DOUBLE UNDERLAYMENT APPLICATION IS REGURED IN ACCORDANCE WITH THE N.C.-R
- UNDERLAYMENT FOR CLAY AND CONCRETE TILE SHALL CONFORM WITH ASTM D 226, TYPE II, ASTM D 2626 TYPE I; OR ASTM D 6380 CLASS I MINERAL SURFACED ROLL ROOFING.
- CONCRETE ROOF TILE SHALL COMPLY WITH ASTM C 1492.
- NAILS SHALL BE CORROSION-RESISTANT AND NOT LESS THAN II GAGE. 5/16-INCH HEAD, AND OF SUFFICIENT LENGTH TO PENETRATE THE DECK. WHICHEVER IS LESS. ATTACHING WIRE FOR CLAY OR CONCRETE TILE SHALL NOT BE SMALLER THAN 0.083-INCH. PERIMETER FASTENING AREAS INCLUDE THREE TILE COURSES BUT NOT LESS THAN 36 INCHES FROM EITHER SIDE OF HIPS OR RIDGES AND EDGES OF EAVES AND GABLE RAKES.
- 17. CLAY AND CONCRETE ROOF TILES SHALL BE FASTENED IN ACCORDANCE WITH THE N.C.-R
- TILE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, BASED ON CLIMATIC CONDITIONS, ROO'S LOPE, NOTBELAYMEN SYSTEM, AND TYPE OF TILE BEING INSTALLED PER THE N.C.-R 18.
- THE INSTALLTION OF BUILT-UP ROOFS SHALL COMPLY WITH THE N.C.-R
- 20. BUILT-UP 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 N.C.-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 WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING. THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF 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 THA SEQUIRED AND A MEANS OF DRAINING WATER THAT ENTERS THA SEQUIRED 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 NITH ASTM D 226 FOR TYPE I FELT OR OTHER APPROVED MATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR MALLS, SUCH FELT OR MATERIAL SHALL DE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 6 INCHES, WHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES, THE FELT OR OTHER APPROVED MATERIAL SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BULDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE.
- Nor coment SIDING CONFORMING TO THE REQUIREMENTS OF THE N.C.-R AND COMPLYING WITH ASTM D 3619 SHALL BE PERMITTED ON EXTERIOR WALLS OF BUILDING OF TYPE V CONSTRUCTION LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED SPECIFIED DOES NOT EXCEED IO MILES PER HOUR AND THE BUILDING HEIGHT IS LESS THAN 40 FEET IN EXPOSURE C. WHERE CONSTRUCTION IS LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED EXCEEDS ISO MILES PER HOUR OR BUILDING HEIGHTS ARE IN EXCESS OF 40 FT., DATA INDICATING COMPLIANCE MUST BE SUBMITTED. FIber cement SIDIN
- fiber cement 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 SIDING OR C375-INCH EXTERIOR-TYPE MOOD STRUCTURAL PANELS OR PARTICLE-BOARD AND SHALL COMPORENT TO THE REGUMERMENTS OF THE N.C.-R 10.
- FIBER-CEMENT LAP SIDING HAVING A MAXIMUM WIDTH OF 12 INCHES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM CIIBÓ, TYPE A, MINIMUM GRADE II. LAP SIDING SHALL BE LAPPED A MINIMUM OF 11/4 INCHES (32 MM) AND LAP SIDING NOT HAVING TONSUE-AND-GROVE END JOINTS SHALL HAVE THE ENDS SEALED WITH CAULKING, INSTALLED WITH AN H-SECTION JOINT COVER, LOCATED OVER A STRIP OF FLASHING OR SHALL BE DESIGNED TO COMPLY MITH NC-R. LAP SIDING COURSES MAY BE INSTALLED WITH THE FASTENER HEADS EXPOSED OR COURSES MAY BE INSTALLED NUTH THE FASTENER 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 SPACES AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 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 FLANE-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450. SEE EXCEPTIONS.
- ALL EXPOSED INSULATION MATERIALS INSTALLED ON ATTIC FLOORS SHALL AVE & CRITICAL RADIANT FULX OF NOT LESS THAN Q12 WATT PER SOLARE 17 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 1204 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 CEILLUGSE TYPE OR FIBERGLASS BATTS OR BLANKET TYPE PER BUILDER'S SPECIFICATIONS.
- THE ENERGY EFFICIENCY REQUIREMENTS INCLUDING LECC. BUT NOT THE ENERGY EVICIENT NEW VALUES, PERCENTAGE OF GLAZING "U" VALUES, ETC. SHALL BO DETERMINED BY THE ADOPTED STATE AND LOCAL ENERGY CODE EQUIPMENTS, REFER TO MECHANICAL PLANS 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 CAULED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL OR SOLID MATERIAL CONSISTENT APPENDIX E-23 AND E-24 OF THE NO-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 BARRIER MATERIAL. MALL INSULATION SHALLS E ENCLOSED AT THE FOLLOWING LOCATIONS WHEN INSTALLED ON EXTERIOR MALLS PRIOR TO BEING 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 UNDE EFERITED, OTHER FOR SLEEPING PURPOSES SHALL NOT DE PERMITTED, OTHER OPENINGS DETWEIN 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 3/6 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>MOOD</u> FRENCH DOORS SHALL BE USED IN ANY CASE.
- PROVIDE SECURITY HARDWARE FOR ALL DOORS AND MINDONS 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 SEE MANUFACTURERS
- Hoer cement SIDING SHALL BE APPLIED OVER SHEATHING OR MATERIALS LISTED
 HOR cement SIDING SHALL BE APPLIED OVER SHEATHING OR MATERIALS LISTED
 INNATIONAL STANDARDS INSTITUCEMENTS IN PRESSURE
 HEALTHER RESISTIVE BARRIER REQUIREMENTS INFORMATION AS AND SHALL BE
 HORTALER RESISTIVE BARRIER REQUIREMENTS INFORMATION ACCORDANCE WITH APPROVED
 MANUFACTURER'S INSTRUCTIONS.
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 HEALTHER RESISTIVE SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED
 MANUFACTURER'S INSTRUCTIONS.
 - 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 BELON THE ADJACENT GROUND ELEVATION SHALL BE PROVIDED WITH A WINDOW WELL.

DOORS & WINDOWS (continued)

- ALL EMERGENCY ESCAPE AND RESCUE OFENINGS HALL HAVE A MINIMM NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FEET IN THE CASE OF A SROUND FLOOR LEVEL WINDOW AND NOT LESS THAN 5.1 SQUARE FEET 0 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.
- L EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM T CLEAR OPENING WIDTH OF 20 INCHES.
- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEY'S, TOOLS OR SPECIAL KNONLEDGE.
- THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE THE MINIMUM HORIZONTAL AREA OF THE MINIOUN HELL SHALL BE 9 SUBARE FEET, MITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES. THE AREA OF THE WINDOW WELL SHALL ALLOW EMERGENCY ESCAPE AND RESCUE OPENING TO BE FILLY OPENED FER THE NA-R THE LADDER OR STEPS REQUIRED SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6" INTO THE REQUIRED DIMENSIONS OF THE WINDOW WELL
- WINDOW WELLS WITH A VERTICAL DEPTH GREATER THAN 44 INCHES 15 SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER OF STEPS USABLE WITH THE WINDOW IN THE FULLY OPEN POSITION.
- BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BE PLACED OVER EMERGENCY ESCAPE AND RESCJE OPENINGS, BULKHEAD ENCLOSURES, OR WINDOW WELLS THAT SERVE SUCH OPENINGS, PROVIDED THE MINIMUM NET CLEAR OPENING SIZE COMPLIES WITH THE N.C. A AND SUCH DEVICES SHALL BE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR FORCE GREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION OF THE SEC DE AND BESCIE DEDING. ESCAPE AND RESCUE OPENING
- ALL INTERIOR EGRESS DOORS AND A MINIMUM OF ONE EXTERIOR EGRESS DOOR SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR

GLAZING & SAFETY GLAZING

BEING DESTROYED

2.

3

6.

8.

CONSERVATION CODE

2

HABITABLE ROOMS SHALL HAVE AN ASGREGATE GLAZING AREA OF NOT LESS THAN & PERCENT OF THE FLOOR AREA OF SUCH ROOMS. NATURAL, VENTILATION SHALL BE THROUGH NINFONS, SKYLIGHTS, DOORS, LOWERS OR OTHER APPROVED OFENINGS TO THE OUTDOR AIR, SUCH OFENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERNISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE OFENABLE AREA TO THE OUTDORS SHALL BE NOT LESS THAN 4 PERCENT OF THE FLOOR AREA BEING VENTILATED.

BATHROOMS WATER OLOSET COMPARTMENTS AND OTHER SIMILAR

DATIFACTORS, AVALENC 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

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:

SLIDING AND SITCLD DOORS GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL IN THE SAME PLANE AS A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN 24-INCHES OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING

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

3.4 ONE OR MORE WALKING SURFACES WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING.

GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE.

GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS,

SUALING IN DOOD AND ENDOWED FOR INOT INDS, NINELPOLD SANAS, STEAM ROOMS, BATHTUBS AND SHOVERS, GLAZING ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN GO INCHES MEASURED VERTICALLY ABOVE 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 WATER'S EDGE. THIS SHALL APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE

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

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

IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN T2 INCHES (1824 MM) ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW 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 SLIDING AND BIFOLD DOORS

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, SANDBLASTED, CERAMIC-FIRED, LASER ETCHED, DEPOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT

FINISHES

GYPSIM BOARD

2.

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

MATERIALS, ALL GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO ASTM C 22, C 475, C 514, C 1002, C 1047, C 117, C 1178, C 1278, C 1986, 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 ENDS OF GYPSYM BOARD SHALL OCCUR ON THE FRAMING MEMBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERFENDICULAR TO THE FRAMING MEMBERS. EDGES AND ENDS OF GYPSYM BOARD SHALL BE IN 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 AGEMULIES PERFENDICULAR TO SUPPORTS, AND AT THE HALL LINE MAY BE OWITTED EXCEPT ON SHEAR-RESISTING ELEMENTS OR FIRE- RESISTIVE AGSEMBLIES. FASTENER SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE PAPER WITH THE FASTENER HEAD. ON 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 GYPSUM BACKING BOARD SHALL BE FERMITTED ON CEILINGS WHERE FRAMING SPACING DOES NOT EXCEEP 12 INCHES ON CENTER FOR 1/2-INCH-THICK OR 16 INCHES FOR 5/8-INCH-THICK GYPSUM BO TOK IVZHIGHTINGKOK IGINGETOK SHALL NOT BEINSTALLED OVER A WATER-RESISTANT SYTSUM BOARD SHALL NOT BEINSTALLED OVER A VAPOR RETARDER IN A SHOKER OR TUB COMPARTMENT. CUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTMER.

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 170 5/8 INCH FOR 24-INCH ON CENTER FRAMINS OR 1/2 INCH SAG-RESISTANT GYTSUM CEILING BOARD SHALL BE USED.

EXTERIOR LATH

AZARDOUS

ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIAL

BACKING OR A LATH SHALL PROVIDE SUFFICIENT RIGIDITY TO PERMIT PLASTER APPLICATION.

WHERE LATH ON VERTICAL SURFACES EXTENDS BETWEEN RAFTERS OR OTHER SIMILAR PROJECTING MEMBERS, SOLID BACKING SHALL BE INSTALLED TO PROVIDE SUPPORT FOR LATH AND ATTACHMENTS.

GYPSUM LATH OR GYPSUM BOARD SHALL NOT BE USED, EXCEPT THAT ON HORIZONTAL SUPPORTS OF CEILINGS OR ROOF SOFFITS IT MAY BE USED AS BACKING FOR METAL LATH OR WIRE FABRIC LATH AND CEMENT PLASTER.

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

A MINIMUM O.014-INCH (NO. 26 GALVANIZED SHEET GAGE), CORROSION-RESISTANT NEEP SCREED OR PLASTIC WEEP SCREED, WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 31/2 INCHES SHALL BR PROVIDED AT OR BELON THE FONDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM O 426. THE WEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAYED AREAS AND SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUIDING. THE VEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANG OF THE WEEP SCREED.

EXTERIOR PLASTER

З.

PLASTERING WITH PORTLAND CEMENT PLASTER SHALL BE NOT LESS THAN PLASTERING WITH PORTLAND COMENT PLASTER SHALL BE NOT LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH AND SHALL BE NOT LESS THAN TWO COATS WHEN APPLIED OVER MASONRY. CONCRETE, PRESURE PRESERVATIVE TREATED WOOD OR DECAY-RESISTANT WOOD OR GYPSIM 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 FIber coment 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 AUTY IGED AS A PLASTICIZER MAY BE ADDED TO CEMENT PLASTER OR CEMENT AND LIME PLASTER IN AN AMOUNT NOT TO EXCEED THAT 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 I-COAT EXTERIOR PLASTER SYSTEM SICH AS "MAGNA WALL A I-COAT EXTERIOR PLASTER STOTEM SOUT AS MARINA MALL 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



MECHANICAL & PLUMBING

H.V.A.C.

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ALL PARIERIALS AND CONSTRUCTION PERIODS STALL BE IN CONFORMANICAL COREN INSTALLAND IN A RESIDENTIAL AND MECHANICAL CORE. INSTALLAND OF MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS NOT ADDRESSED BY THIS CODE SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE NORTH CAROLINA RESIDENTIAL AND FUEL GAS CODE.
- CONTRACTOR SHALL DESIGN ENTIRE H.V.A.C. SYSTEM AND SUBMIT DRAWINGS FOR OWNER/BUILDER'S APPROVAL PRIOR TO ORDERIN MATERIALS OR EQUIPMENT.
- WHERE AIR CONDITIONING IS AN OPTIONAL FEATURE, HEATING SYSTEMS MUST BE DESIGNED AND DUCT WORK SIZED TO ACCOMMODATE FUTURE AIR CONDITIONING NEEDS.
- WHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE THERMOSTAT PER DWELLING WHIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DALY SCHEDULE TO MAINTAIN DIFFERENT THMERATURE SET POINTS AT DIFFERENT THES 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 (19 C) OR UP TO 85 DEG. F (29 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 SHALL BE 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 REQUIRENTS 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
- EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS. 2.
- RANGE HOODS SHALL DISCHARGE TO THE OUTDOORS THROUGH A DICT. THE DUCT SERVING THE HOOD SHALL HAVE A SMOOTH INTERIOR SURFACE SHALL BE AIR TIGHT, SHALL BE EQUIPPED WITH A BACK-DRAFT DAMPER AND SHALL BE INDEPENDENT OF ALL OTHER EXHAUST SYSTEMS, DUCTS SERVING RANGE HOODS SHALL NOT TERMINATE IN AN ATTIC OR CRAML SPACE OR AREAS INSIDE THE BUILDING, DUCTS 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 ABOVE THE INDOOR CONCRETE FLOOR SURFACE. C.
- THE PVC DUCT SHALL EXTEND NOT GREATER THAN I INCH ABOVE GRADE OUTSIDE THE BUILDING. D.
- E. THE PVC DUCTS SHALL BE SOLVENT CEMENTED.
- EXHAUST HOOD SYSTEMS CAPABLE OF EXHAUSTING IN EXCESS OF 400 CPM SHALL BE PROVIDED WITH MAKEUP AIR AT A RATE APPROXIMATEL EQUAL TO THE EXHAUST AIR RATE THAT IS IN EXCESS OF 400 CIBIC FE PRE MINUTE. SUCH MAKEUP AIR SYSTEMS SHALL BE EQUIPPED WITH A MEANS OF CLOSURE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OFERATE SIMULTANEOUSLY MITH 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 TO THE OUTSIDE AIR BY A TYPE B' VENT AND COMPLY WITH THE REQUIREMENTS OF THE NC-M

PLUMBING

- A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN SUCH A MANNER SO AS TO PREVENT AND MAINTAINED IN SUCH A MAINLEN SO SI DI PREVENI CONTAMINATION FROM NONPOTABLE LIAUDS, SOLIDS OR GASES BEING INTRODUCED INTO THE POTABLE WATER SUPPLY THROUGH CROSS-CONNECTIONS OR ANY OTHER PIPING CONNECTIONS TO THE SYSTEM. BACKFLOW PRE- VENTER APPLICATIONS SHALL CONFORM TO
- THE SUPPLY LINES OR FITTINGS FOR EVERY PLUMBING FIXTURE SHALL BE INSTALLED SO AS TO PREVENT BACKFLOW, PLUMBING FIXTURE FITTINGS SHALL PROVIDE BACKFLOW PROTECTION IN ACCORDANCE WITH ASME AII21.8.1.

MECHANICAL &

PLUMBING (continued) PLUMBING (continued

- ALL DEVICES, APPLIRTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTIL-LATION, PROCESSING, COOLING, OR STORAGE OF ICE OR FOODED, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE MATER SUPPLY SYSTEM, WATER FUMPS, FILTERS, 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 AII2.16.1 IN ADDITION TO THE REQUIREMENTS IN N.C.-P THE INSTALLATION OF A WATER SERVICE OR WATER DISTRIBUTION PIPE
- THE INSTALLATION OF A WATER SERVICE OR WATER DISTRIBUTION PIPE SHALL BE PROHBITED IN SOIL AND GRAUND 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 SPECIFIC INSTALLATION. WHERE DETRIMENTAL CONDITIONS EXIST, APPROVED ALTERNATIVE MATERIALS OR ROUTING SHALL BE REQUIRED.
- WATER DISTRIBUTION PIPE SHALL CONFORM TO NGF 6I AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C.-PLIMBING. WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMM PRESSURE RATING OF IOO PSI AT IGO 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 OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM THE LIME AND ACID OF CONCRETE, CINDER OR OTHER CORROSIVE MATERIAL SHEATHING OR WRAPPING SHALL ALLOW FOR EXPANSION AND "" CONTRACTION OF PIPING TO PREVENT ANY RUBBING ACTION, MINIMUM WALL THICKNESS OF MATERIAL SHALL BE 0.025-INCH.
- PIPES PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM PHYSICAL DAMAGE PER NC-R.
- PIPING SHALL BE INSTALLED SO AS TO PREVENT DETRIMENTAL STRAINS AND STRESSES IN THE PIPE, PROVISIONS SHALL BE MADE TO FROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT, PIPING SHALL BE INSTALLED TO AVOID STRUCTURAL STRESSES OR STRAINS WITHIN BUILDING COMPORENTS.
- 12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL MATEX FITED INSTRUCTION A WALL EAROSED 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 WOONDITIONED ATTICS, UNCONDITIONED UTLITY 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 DEG. F IN ACCORDANCE WITH ASTM CITT OR HEAT OR BOTH. EXTERIOR WATER SUPPLY SYSTEM PIPING SHALL BE INSTALLED NOT EVEN IN VIEWE BEICH OW THE FROM THE MOST LINE AND TOT LEGG.

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 OR PARTITIONS ADJACENT TO EATING ROOMS, USE CAST IRON PIPING OR SIMILAR APPROVED HARD OR DENSE PIPING TO MITIGATE SOUND.
- CLEANOUTS ON BUILDING SEWERS SHALL BE LOCATED AS SET FORTH IN
- THE MAXIMUM WATER CONSUMPTION FLOW RATES AND QUANTITIES FOR ALL PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH N.C.-R.
- INDIVIDUAL 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 570P IN ACCORDANCE WITH ASSE (016/ ASME AII2.016/CSA BI25.16. AND SHALL BE INSTALLED AND ADJISTED PER MANUFACTURES INSTRUCTIONS.
- GAS AND ELECTRIC WATER HEATERS HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 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 SOLUD, LIQUID OR GAS FUEL) WITH THE EXCEPTION OF THOSE HAVING DIRECT VENT SYSTEMS, SHALL NOT BE INSTALLED IN BATHROOMS AND BEDROOMS OR IN A CLOSET WITH ACCESS ONLY THROUGH A BEDROOM OR BATHROOM, HONEVER, MATER HEATERS OF THE AUTOMATIC STORAGE TYPE MAY BE INSTALLED AS REPLACEMENT IN A BATHROOM, WHEN APPROVED BY THE PLUMBINS 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, MATER 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 MEIGHT OF THE MATER HEATER, ACTING IN ANY HORIZONTAL DIRECTION, OR IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S RECOMMENDATIONS
- 22. APPLIANCES LOCATED IN A GARAGE OR CARPORT SHALL BE PRO-TECTED FROM IMPACT BY A MOVING VEHICLE.
- 23 WHERE WATER HEATERS OR HOT WATER STORAGE TANKS ARE INSTALLED IN: MERCE WALER HEALENS OK HAD TAALEN SIJOKADE LANDS AKE NO ALLEN IN REMOTE LOCATIONS SUCH AS SUSPENDED CEILING, ATTICS, ABOVE OCCUPIED SPACES, OR UNVENTILATED CRANL SPACES, A LOCATION WHERE WATER LEAKAGE FROM THE TANK WILL CAUSE DAMAGE TO PRIMARY STRUCTURAL MEMBERS, THE TANK OR WATER HEATER SHALL BE INSTALLED IN A GALVANIZED STEEL PAN HAVING A MINIMUM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE.
- WHERE CLOTHES WASHING MACHINES ARE LOCATED ON WOOD FRAMED FLOORS WHERE LEAKAGE WOLLD CAUSE DAMAGE, A GALVANIZED STELL PAN HAVING A MINIMM 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 2212.2 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 TWO-COMPARTMENT SINK, WITH OR WITHOUT A FOOD-WASTE DISPOSER, SHALL BE SERVED BY A TRAP OF NOT LESS THAN II/2 INCHES (36 MM) IN OUTSIDE DIAMETER. 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 COUNTER 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 С.

6.

- CRAML SPACES. WHERE THE CRAWL SPACE IS AT OR BELOW GRADE LEVEL. D.
- UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS.
- 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 GECI 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, BARGOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DVELLING 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 AROUND CORNERS) AND UNBROKEN ALONG THE FLOOR LINE BY DOORNAYS AND SIMILAR OFENINGS, FIREPLACES, AND FIXED CABINETS, AND THE WALL SPACE OCCUPIED BY FIXED PANELS IN EXTERIOR WALLS, BUT EXCLUDING SLIDING FARELS IN EXTERIOR WALLS, THE WALL SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING BAR-TYPE CONTERS OR RAILINGS, SHALL BE INCUED IN THE 6 FOOT MEASUREMENT.
- IN THE KITCHEN PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR IN THE KITCHEN, PANINT, 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 O 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 CONTER SPACE NITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER.
- AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH FENINGULAR COUNTER SPACE WITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER, A PENINGULAR COUNTERTOP IS MEASURED FROM CONNECTING PERFENDICULAR WALL. (3)
- COUNTERTOP SPACES SEPARATED BY RANGE TOPS, REFRIGER-ATORS, OR SINKS SHALL BE CONSIDERED AS SEPARATE COUNTER-TOP SPACES IN APPLITING THE REQUIREMENTS OF (I), (2), AND (3) ABOVE. IF A RANGE COUNTER-KOOKING WIT, OR SINK IS INSTALLED IN AN ISLAND OR PENNEULAR COUNTERTOP AND THE DEPTH OF THE COUNTER BEHIND THE ITEM IS LESS THEN IS INCHES. IT WILL BE CONSIDERED TO DIVIDE THE COUNTERTOP SPACE INTO WILL BE CONSIDERED TO DIVIDE THE COUNTERTOP SPACE INTO WO SEPARATE COUNTERTOP SPACES. EACH COUNTERTOP SPACE SHALL COMPLY WITH APPLICABLE REQUIREMENTS. (4)
- 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 EACH 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
- 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 1/16 INCH THICK STEEL PLATE, SLEEVE, OR EQUIVALENT OR BY NOT LESS THAN I-1/4 INCH FREE SPACE FOR THE FULL LENSTH OF THE GROOVE IN WHICH THE CABLE OR RACEW IS INSTALLED.
- 15. RECEPTACLES IN DAMP OR WET LOCATIONS.

19.

21.

UNIQUE COMBIN SMOKE DETECTORS

- A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED A RECEIVED INSTALLED OUTDOORS IN A BOOMING FOR A LOCATION FOR A LOCATION FOR A LOCATION SHALL HAVE AN ENCLOSURE FOR THE RECEIVED LOCATIONS SHALL HAVE AN THE RECEIVED WHEN THE RECEIVED LOCATIONS CAP NOT INSERTED AND RECEPTACLE COVERS CLOSED.)
- ALL IS- AND 20- AMPERE, I25- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHER FROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUTY". ALL IS- AND 20- AMPERE, IS- 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 OR DEVICES INSTALLED IN DVELLING WIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWATS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTERS, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. THE ARC-FAULT CIRCUIT INTERRUPTER 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 TH PLUG/RECEPTACLE COMBINATION IS A NORSTANDARD CONFIGURATION TYPE THAT IS SPECIFICALLY LISTED AND IDENTIFIED FOR EACH SUCH INFORM THE REVIEW CONFIGURATION TO A DIMENSION OF THE REVIEW CONFIGURATION

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 NO-R R314.3

HOUSEHOLD FIRE ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NFPA T2 THAT INCLUDE SMOKE ALARMS, OR A COMBINATION OF SMOKE DETECTOR AND AUDILE NOTIFICATION DEVICE INSTALLED AS REQUIRED BY THE NC-R R3HA3 FOR SMOKE ALARMS, SHALL BE FERMITTED. THE HOUSEHOLD FIRE ALARM SYSTEM SHALL FROVIDE THE SAME LEVEL OF SMOKE DETECTION AND ALARM AS REQUIRED BY THE INC-R FOR SMOKE ALARMS IN THE VEVENT THE FIRE ALARM PANEL IS REMOVED OR THE SYSTEM IS NOT CONNECTED TO A CENTRAL STATION.

THIS CODE AND THE

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

3. A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES LOCATED WITHIN DEDICATED SPACE FOR EACH APPLIANCE THAT, IN NORMAL USE, IS NOT EASILY MOVED FROM ONE PLACE TO ANOTHER, AND THAT IS CORD-AND-PLUS CONNECTED.

ELECTRICAL (continued)

CARBON MONOXIDE ALARMS

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

SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING WITH UL 2034 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



	A
+	E .
D	4.1 B
6	¥ F

	INTERIOR K	EY	
	SQUARE FOOT	AGE	
	PLAN 150,144	46	
FIRST FLOOR A	REA	1446 SQ. FT.	
TOTAL AR	ΈA	1446 SQ. F1	
GARAGE AREA		422 SQ. FT.	
PORCH AREA(S)	ELEVATION 'A'	50 SQ. FT.	
	ELEVATION 'B'	50 SQ. FT.	
	ELEVATION 'C'	127 SQ. FT.	
	ELEVATION 'D'	127 SQ. FT.	
OPTIONS:			
PATIO AREA(S)	COVERED PATIO	100 50. FT.	
	EXTENDED COVERED PATIC	200 SQ. FT.	
	SCREENED-IN COVERED PA	100 50.FT.	
DECK ADEA/C)	EXTENDED SCREENED-IN CO	V. PATIO 200 30. FT.	
DLUN AREA(3)	EVIENDED OPEN DECK	144 DQ. FT.	
	COREENED IN DECK	240 SQ. FT.	
	EXTENDED SCREENED IN DE	144 50. FT.	
	DI ATE NOT	DR 240 30.11.	
	PLATE NOT	ES 2019 N.CR	
	8'-I" PLATE NO	DTES	
 WINDOW H 	EADER HEIGHT:	6'-8" U.N.O.	
 2nd FLOOI ENTRY DO 	R WINDOW HDR. HEIGHT:	7'-0" U.N.O.	
SLIDING G	LASS DOOR HEIGHT:	6'-8" (TEMP.)	
INTERIOR	SOFFIT HEIGHT:	7'-4" UNO.	
 TRAY CELL INTERIOR 	LING DOOR HEIGHT	6'-8" U.N.O.	
	9'-I" PLATE NO	OTES	
		8'-0" IINO	
 WINDOW H 	EADER HEIGHT 2nd FL:	7'-8" U.N.O.	
 4010 WINE 	OW OVER TUB HDR. HGT .:	8'-4" U.N.O.	
 ENTRY DO ELIDING G 	OR HEIGHT:	6'-8" U.N.O.	
 INTERIOR 	SOFFIT HEIGHT	8-0" UNO	
 TRAY CEIL 	ING:	7" RISE INTO TRUSS U.N.O	
 INTERIOR 	DOOR HEIGHT:	6'-8" U.N.O.	
	GENERAL PLAN	NOTES	
	FIGHTS PER SECTION AND		
HEIGHTS, U.N.O.		LEEVANORTEALE	
ALL INTERIOR U.N.O. (REFER	DOORS TO BE HOLLOW C TO PLAN FOR SIZE).	ORE 3/8" THICK,	
ALL GARAGE	SERVICE DOORS TO BE H ADE (REFER TO PLAN FOR	OLLOW CORE & SIZE).	
ALL HOUSE TO (REFER TO PL)	ARAGE DOORS TO BE :	20-MINUTE FIRE-RATED	
ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE 3/4" THICK (REFER TO PLAN FOR SIZE),			
ALL FLOOR M. DOOR JAMBS,	ATERIAL CHANGES TO OC U.N.O.	CUR AT CENTER OF	
	STAIR DATA N	OTES	
FIRST FLOOR V	VITH #.P PLATE HEIGHT	2016 N.CR	
14" DEEP T.J.I. 14 TREADS 15 RISERS	FLOOR JOISTS WITH 3/4" AT IO" EACH AT 7-7/IO" EACH	T&G DECKING.	
FIRST FLOOR V 14" DEEP T.J.I. 15 TREADS	FLOOR JOISTS WITH 3/4" AT 10" EACH	T&G DECKING.	



FLOOR PLAN 'A'

SCALE I/4"=I'-0" (22"X84") - I/8"=I'-0" (II"XI7")





Island

AT KITCHEN

FLOOR PLAN OPTIONS

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





SLAB INTERFACE PLAN 'A'

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

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PARTIAL SLAB INTERFACE PLAN 'B'

BASIC PLAN AT SLAB-ON-GRADE

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

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

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PARTIAL FLOOR PLAN 'B'

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

PARTIAL PLAN NOTES
NOTE: NOT ALL KEY NOTES APPLY.
27. WATER HEATER LOCATION: - FOR GAS - LOCATE ON 18" HIGH
DRAIN. (REFER TO DETAILS)
28. WATER HEATER 'B' VENT TO OUTSIDE AIR
VALVE
39. LINE OF WALL BELOW
42. LINE OF FLOOR BELOW
48. MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL SHEETS)
51. LOW WALL - REFER TO PLAN FOR HEIGHT
52. 2x6 STUD WALL
54. DDL. 2X4 MALL PER PLAN 55. INTERIOR SHELE - REFER TO PLAN FOR HEIGHT
57. FLAT SOFFIT
58. ARCHED SOFFIT
6 PRE-MANUFACTURED DECORATIVE COLUMN (SIZE SEE FLEV.)
FYPON OR EQ. SURROUNDING STRUCTURAL POST.
62. BRICK / STONE VENEER - REFER TO ELEVATIONS
66. 3" DIAM. CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH
MIN. 12" EMBEDMENT INTO CONCRETE.
(NOT REQUIRED AT ELECTRIC WATER HEATERS OR FOR
TRAVEL PATH).
68. P.T. POST W/ WRAP.
TO. EGRESS WINDOW
BEYOND WINDOW(S) ON ALL SIDES U.N.O.
76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
SIZE





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

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



SCALE 1/2"=1'-0"



ELEVATION NOTES

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SCALE |/4"=|'-0" (22"X84") - |/8"=|'-0" (||"X|7")



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

ELEVATION NOTES	-		
TE: NOT ALL KEY NOTES APPLY.			
ROOF MATERIAL - REFER TO ROOF NOTES	8		
2X FASCIA/BARGE BOARD WITH FASCIA CAP			~
G.I. FLASHING			
G.I. FLASHING & SADDLE/CRICKET			\leq
G.I. DRIP SCREED			
24"x24" CHIMNEY			
DECORATIVE VENT			10
DECORATIVE CORBEL		N 1	
DECORATIVE SHUTTERS	-		
PEDIMENT. SEE ELEVATION FOR TYPE			
RECESSED ELEMENT			
DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE			
TRIM - SEE ELEVATION FOR SIZE			
SYNTHETIC MATERIAL	-	-	-
PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.			
SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE	-	-	-
SHAKE SIDING			
STONE VENEER PER SPECS			
BRICK/MASONRY VENEER PER SPECS			
BUILT UP BRICK COLUMN	8		8
SOLDIER COURSE			
ROWLOCK COURSE			
FRIEZE BOARD	-		
SIDING W/ 4" CORNER TRIM PER SPECS			
P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE		8	
PRE-FAB DECORATIVE TRIM	N	ОРТ	'U'
LIGHT WEIGHT PRECAST STONE TRIM		UKI	11
RAILINGS (+36" U.N.O.)	-	503	C
WRAP		30	S S
DECORATIVE WINDOWDOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.	•		KB
BRACKET OR KICKER - FYPHON OR EQ.	N	ORTH	CAR
ENTRY DOOR			
CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.		4506	s.
SECTIONAL GARAGE DOOR PER SPECS			SUI
ALUMINUM WRAP		DUP	нлм
OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS		DUK	(OA)
OPTIONAL STANDING SEAM METAL ROOF		TEL:	(91)
KEYSTONE			
SOLDIER CROWN			12
JACK SOLDIER COURSE	-	-	-
WATER TABLE			
ATRIUM DOOR			
PILASTER - SEE ELEVATION FOR TYPE		201	10 1
		U	ເວຼ
	C	ADC	י דו
	C	AKU	11
	ELEVATION NOTES ELEVAT ALL KEY NOTES APPLY. ROOT ALL KEY NOTES APPLY. ROOT MATERIAL - REFER TO ROOF NOTES 2X FASCIADBARGE BOARD WITH FASCIA CAP G.I. FLASHING G.I. THASHING G.I. FLASHING G.I. THASHING G.I. THASHIN	ELEVATION NOTES ELINT ALL REY NOTES APPLY. ROOF MATERIAL - REFER TO ROOF NOTES 2X FASCIADBRASE BOARD WITH FASCIA CAP G.I. FLASHING G.I. FLASHING & SADDLE/CRICKET G.I. FLASHING & SADDLE/CRICKET G.I. FLASHING & SADDLE/CRICKET ELEVATION FOR TYPE ECORATIVE VENT DECORATIVE CORBEL DECORATIVE SHITTER PEDIMENT: SEE ELEVATION FOR TYPE RECESSED ELEMENT DECORATIVE TRIM PYPON OR EQ. SEE ELEVATION FOR TYPE RECESSED ELEMENT DECORATIVE TRIM PYPON OR EQ. SEE ELEVATION FOR TYPE SYNTHETIC MATERIAL PRE-MANFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV) FYFON OR EQ. SURROWNING STRUCTURAL POST. SITE-BULT COLUMN - SEE ELEVATION FOR TYPE SHAKE SIDING STONE VENEER FER SPECS DULT UP ERICK COLUMN SOLDIER COURSE ROMLOCK COURSE ROMLOCK COURSE FRIEZE BOARD SIDING V4** CORNER TRIM PER SPECS P.T. POST W WRAP - SEE STRUCTURAL FOR SIZE PRE-FAB DECORATIVE TRIM LIGHT WEIGHT REFACES TONE TRIM RALINGS (136**UN.0) WRAP DECORATIVE WINDOWDOR TRIM - PYPON OR EQ. SEE ELEVATION FOR SIZE. BRACKET OR KICKER - PYPHON OR EQ. SEE ELEVATION FOR SIZE. N N N SCHIONAL SARAGE DOOR PER SPECS ALUMINM WRAP OPTIONAL DORWINDOW - REFER TO PLAN OPTIONS OPTIONAL STANDING SEAM METAL ROOF KEYSTONE SOLDIER CROWN JACK SOLDIER COURSE WATER TABLE ATRUM DOOR PLASTER - SEE ELEVATION FOR TYPE	ELEVATION NOTES ELEVATION ALL KEY NOTES APPLY. ROOF MATERIAL - REFER TO ROOF NOTES 2X FASCIADERAGE BOARD WITH FASCIA CAP G.I. FLASHING G.I. FLASHING G.I. FLASHING G.I. FLASHING G.I. FLASHING G.I. PRIP SCREED 24'324' CHIMMEY DECORATIVE CORBEL DECORATIVE CORBEL DECORATIVE CORBEL DECORATIVE SHUTTERS PECHANIFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV) FTFON OR EQ. SURROUNDING STRUCTURAL POST. SITE-BULT COLUMN SOLD FOR TYPE RECESSED ELEVATION FOR TYPE STAKE SIDING STONE VENEER FER SPECS BUILT UP BRICK COLUMN SOLDIER COURSE ROPLOCK ROPLONDOWDOOR TRIM - PYPON OR EQ. SEE ELEVATION FOR SIZE. BUT UP RECKET OF COURSE ROPLOCK COURSE ROPLOCK COURSE ROPLOCK ROPN JACK SOLDIER COURSE ROPLOCK ROPTIONAL GARAGE DOOR PER SPECS ALIMINM WRAP POPTIONAL DOORMINDOON - REFER TO PLAN OPTIONS OPTIONAL STANDING SEAM METAL ROOF KEYSTONE SOLDIER CRONN JACK SOLDIER COURSE RATER TABLE ROPROP PLASTER - SEE ELEVATION FOR TYPE 201 CARCE



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# ELEVATION NOTES	· · · · · ·
NOTE: NOT ALL KEY NOTES APPLY. I. ROOF MATERIAL - REFER TO ROOF NOTES	
2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP	
4. G.I. FLASHING & SADDLE/CRICKET	
5. G.I. DRIP SCREED 6. 24"x24" CHIMNEY	
7. DECORATIVE VENT	HOME
9. DECORATIVE CORBEL 9. DECORATIVE SHUTTERS	
	│. └────────────────────────────────────
12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE	
I3. TRIM - SEE ELEVATION FOR SIZEI4. 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. SHARE SIDING 18. STONE VENEER PER SPECS	
19. BRICK/MASONRY VENEER PER SPECS	
20. BUILT UP BRICK COLUMN	
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.) 29. WRAP	50' SERIES
30. DECORATIVE WINDOWDOOR TRIM - FYPON OR EQ. SEE FI EVATION FOR SIZE	KR HOMF
31. BRACKET OR KICKER - FYPHON OR EQ.	NORTH CAROLINA DIVISION
32. ENTRY DOOR 33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN	4506 S. MIAMI BLVD.
34. SECTIONAL GARAGE DOOR PER SPECS	SUITE 100
55. ALUMINUM WIKAM 36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS	DURHAM, NC 27703
37. OPTIONAL STANDING SEAM METAL ROOF	■ TEL: (919) 768-7980 ■
39. SOLDIER CROWN	
40. JACK SOLDIER COURSE 41. WATER TABLE	
42. ATRIUM DOOR	
43. PILASTER - SEE ELEVATION FOR TYPE	2018 NORTH
	CAROLINA STATE
	BUILDING
	CODES
	ISSUE DATE: 12/13/19
	^a PROJECT No.: 1350999:57 ^a
	DIVISION MGR.: M.P.
	REVISIONS:
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	SPEC. LEVEL 1
	SPEC. LEVEL 1 RALEIGH-DURHAM
NOTE:	SPEC. LEVEL 1 RALEIGH-DURHAM
NOTE: REFER TO BASIC ELEVATIONS FOR INFORMATION NOT SHOWN HERE	spec. level 1 raleigh durham 50' SERIES

OPTIONAL INTERIOR ELEVATIONS

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





66"x42" MIRROR 60"x42" MIRROR

MISCELLANEOUS INTERIOR ELEVATIONS



MISCELLANEOUS INTERIOR ELEVATIONS



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AT SLAB-ON-GRADE





#	SECTION NOTES	•	8				1
<u>NO1</u>	TE: NOT ALL KEY NOTES APPLY.						
1. 2.	ROOF PITCH - REFER TO ROOF NOTES						
З.	PRE-MANUFACTURED WOOD ROOF TRUSS SYSTEM - SEE						
4.	ROOF SHEATHING PER STRUCTURAL			\mathbf{X}			
5.	2x FASCIA/BARGE BOARD				\mathbf{X}	′ I	
6. 7	CONT. SOFFITED EAVE W/ VENTING			JO	MF		
8.	EXTERIOR FINISH PER ELEVATIONS	8					1
9.	FLOOR FRAMING PER STRUCTURAL						Ð
10. 11.	FLOOR SHEATHING PER STRUCTURAL HEADER PER STRUCTURAL	8					
12.	FLUSH BEAM PER STRUCTURAL		_	_	_	_	
13.	DROPPED BEAM PER STRUCTURAL			•			1
15.	2x4 STVD WALL						
6.	2x6 STUD WALL	-	-	-	-	-	
17. 18	2x6 BALLOON FRAMED WALL PER STRUCTURAL DBL 2x4 WALL PER PLAN						1
19.	2x CRIPPLES @ 16" O.C.						
20.	2X PRESSURE TREATED SILL PLATE						1
21. 22.	DBL. 2X TOP PLATE @ EXTERIOR & BEARING WALLS						
23.	IX OVER 2X TOP PLATE () INTERIOR & NON-BEARING				-	8	1
24.	INSULATION MATERIAL PER ENERGY CALCULATIONS			_	_	_	
25.	MIN. 36" HIGH GUARD - SEE PLAN FOR HEIGHT				8 4 77 7 1		,
26. 27.	STAIR TREADS AND RISERS PER PLAN: - MIN. 10" TREAD	<u>N</u> (ORT	H C	ARO	LIN	Ą
22	\$ MAX. 7 3/4" RISER	[502	SE	RI	FS	
∠0.	RESISTANT OR 5/8" DRYMALL & CEILING		50	9E	1711		
29.	MIN. 1/2" GYP. BD. ON CEILING & WALLS @ USEABLE SPACE UNDER STAIRS.			KB H	OME		
30.	GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND		ORTH	CAROL	INA DI	VISIO	Ń
	SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O.		4506	S. MI	AMI B	LVD.	
31. 32	MATERIAL TO UNDERSIDE OF ROOF SHEATHING INTERIOR SHELF - MIN, 1/2" GYP, BD, OVER 3/8" PLY MD			SUITE	100		
33.	CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL -		DUR	HAM, I	NC 27	703	
34	SLOFE 1/4" MER FI. MIN. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN		TEL:	(919)	768-7	980	1
35.	CONCRETE FOUNDATION PER STRUCTURAL						
36. a7	LINE OF OPTIONAL TRAY CEILING/STEP CEILING	8	•	•	•	•	1
38.	PROFILE OF OPTIONAL COVERED PATIO		-	-			
39.	EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS.	-		₩ 10 7-7-	- ~~~	- TT	
40. 41	8" BLOCK WALL 5/8" TYPE-X DRYWALL & GARAGE		20	េរស្រ	OKT	H.	
	CEILING	C	ARC) LIN		ГАТ	F
42.	WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A		ance B	8		8	
	SINGLE-FAMILY DWELLING, DRAFT STOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT		B	UILI	DIN	3	
	EXCEED 1,000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS.						
		J		COL	DES		
		8					
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SCALE |/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XIT")

	UTILITY LEGEND	,
÷		
	12" ABV. FIN. FLR. TYPICAL U.N.O.	
ių n≏ or i∉ n≏	W WATER RESISTANT HOUSING	
म्म् अन	120V (TR) RECEPTACLE W GFI CIRCUIT	
₩		
	FUSED DISCONNECT	
0	RECEPTACLE W COVER	
Ф	120V (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SWITCH CONTROLLED, 1/2 HOT	. •,
i€ 220 v	220V SINGLE CONVENIENCE RECEPTACLE	
<u> </u>	TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR.	
	8" ABOVE COUNTER U.N.O.	
HO 4	THREE-POLE LIGHT SWITCH	
LA MP	WALL MOUNTED LIGHT FIXTURE	
-φ- Λ	W/ WATER RESISTANT HOUSING	
φ	WALL MOUNTED INCANDESCENT LIGHT FIXTURE	
н¢-	WALL MOUNTED FLUORESCENT LIGHT FIXTURE	
-0-	CEILING MOUNTED INCANDESCENT	
¥		
-@-	LIGHT FIXTURE	NORTH CAROLINA
¤	HANGING INCANDESCENT LIGHT FIXTURE	50' SERIES
Ð	RECESSED INCANDESCENT DIRECTIONAL	
ф.	LIGHT FIXTURE (ETE DALL)	KB HOME NORTH CAROLINA DIVISION
	LIGHTING - TRAVERSE II LED FIXTURE - PER	
r ⊂ wp	SPECS RECESSED INCANDESCENT LIGHT FIXTURE	4506 S. MIAMI BLVD.
≌ ^{rn.p.} ∣©	W/ WATER RESISTANT HOUSING	DURHAM, NC 27703
¢	RECESSED FLUORESCENT LIGHT FIXTURE	■ TEL: (919) 768-7980 ■
	RECESSED EXHAUST FAN INCANDESCENT	
Þ	LIGHT COMBINATION	
Ø	RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION	
D	INCANDESCENT WALL SCONCE	2018 NODTU
]	ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET	
		CAROLINA STATE
	BOX (CEILING MOUNTED)	BUILDING
		CODES
	12"x48" FLUORESCENT LIGHT	
	BOX (CEILING MOUNTED)	
LL'		
۲	OPTIONAL PRE-WIRED CEILING FAN	
J	CEILING MOUNTED JUNCTION BOX	
нQ	WALL MOUNTED JUNCTION BOX	
000	DOOR CHIME	10/19/10
ΗT	CATV RECEPTACLE	PROJECT No · 1350999.57
⊢®	PUSH BUTTON	DIVISION MGR.: M.P.
	PHONE OUTLET	REVISIONS:
_ _+ +es	HOSE BIB	
-#нв	HOSE BIB W/ S.O.V.	• •
— см	WATER STUB FOR ICE MAKER	
6	APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED	
60	APPROVED CARBON MONOXIDE ALARM/ SMOKE DET	
нīт	THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)	
⊷	GAS TAP	
- x	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA,	
4	BUT NO MORE THAN 48" FROM GAS OUTLET	
SM	NITCHING FOR 24" MIN. SEPERATION DOMS W/ CLG, FAN OF ELECTRICAL BOXES	5 B
	TIONS AS SHOWN BELOW	
LIGHT / F		FOR INTERNAL USE ONLY REVIEWED BY:
_		3 4
SECO	NDARY MASTER GARAGE	5 6
	NOTES	PLAN:
I. MEC SHO	HANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE WN FOR INTENT ONLY. THESE SYSTEMS SHALL BE INTEREED BY OTHERS. THESE CONTRACTOR SHALL BE	150.1446
ENG RESI	INCLIVED DI HERD, THE CONTRACTOR SHALL BE PONSIBLE FOR PROPER INSTALLATION AND CEMENT, ALL HEIGHTS SHOWN ARE TO CENTER INF	
OF	EXTURE	SHEET:
2. PRO REC	VIDE SWITCH, LIGHT, I2OV (AFCI & TR) DUPLEX EPTACLE, & FUEL GAS STUB OR 22OV RECEPTACLE	5.1
IN A	TTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.	
BE	LOCATED AT HIGHEST POINT OF CEILING	SPEC. LEVEL 1
4. 20 F ADD	FOOT #4 REBAR FOR UFER GROUND AND ITTIONAL COLD WATER GROUND. REFER TO SLAB	
INTE	NFACE FLAN FOR LOCATION.	KALEIGH-DUKHAM
PLA AMP	S.	50' SERIES

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



AT KITCHEN

Island

UTILITY PLAN OPTIONS

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

	UTILITY LEGEND	
Ð	120V DUPLEX CONVENIENCE RECEPTACLE	
iff we get	12" ABV. FIN. FLR. TYPICAL UN.O.	
r⊕ w₽	W/ WATER RESISTANT HOUSING	
나는 6FI	120V (TR) RECEPTACLE W/ GFI CIRCUIT	
- ₽	FUSED DISCONNECT	
\odot	120V (AFCI & TR) RECESSED FLOOR	I HOME I.
æ	120V (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE	©
itt 220 v	HEIGHT NOTED AS PER PLAN	
÷	TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. 8" ABOVE COUNTER U.N.O.	
+ 69 -8	THREE-POLE LIGHT SWITCH	
1 69 4	FOUR-POLE LIGHT SWITCH	
юр - М.Р .	W/ WATER RESISTANT HOUSING	
φ	MALL MOUNTED INCANDESCENT LIGHT FIXTURE	
÷	WALL MOUNTED FLUORESCENT LIGHT FIXTURE	
-¢-	CEILING MOUNTED INCANDESCENT	
-@-	CEILING MOUNTED FLUORESCENT	
×	LIGHT FIXTURE HANGING INCANDESCENT	NORTH CAROLINA
		50' SERIES
₩ E	LIGHT FIXTURE (EYE BALL)	KB HOME
l ∯ ਛ	RECESSED INCANDESCENT LIGHT FIXTURE	NORTH CAROLINA DIVISION
	SPECS	4506 S. MIAMI BLVD.
₩.P.	W WATER RESISTANT HOUSING	DURHAM. NC 27703
₩ N	RECESSED FLUORESCENT LIGHT FIXTURE	■ TEL: (919) 768-7980 ■
	RECESSED EXHAUST FAN/ INCANDESCENT	
₽ Ø		
Ø	RECESSED EXHAUST FAN FLUORESCENT LIGHT COMBINATION	
D	INCANDESCENT WALL SCONCE	2018 NORTH
	FROM STREET	CAPOLINA STATE
		CAROLINA SIAIL
o o	24"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)	BUILDING
		CODES
	BOX (CEILING MOUNTED)	
illi		
۲	OPTIONAL PRE-WIRED CEILING FAN AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O.	
Q	CEILING MOUNTED JUNCTION BOX	
HQ.	WALL MOUNTED JUNCTION BOX	
HT		ISSUE DATE: 12/13/19
⊢®	PUSH BUTTON	PROJECT No.: 1350999:57
H	PHONE OUTLET	BEVISION MGR.: M.P.
	SERVICE BOX	
	HOSE BIB W/ SQ V	• •
— см	WATER STUB FOR ICE MAKER	
9	APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED	
6	APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.	53 18
ΗT	THERMOSTAT (VERIFY LOCATION W HVAC PLAN)	
┝╋	GAS TAP	
ΗR	LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET	5 B
GIA		
RO	TIONS W/ CLG. FAN OF ELECTRICAL BOXES	
LIGHT / F	TAN LIGHT T↑TT>T↑FAN & DMELLING	FOR INTERNAL USE ONLY
.210		
	\$\$ # \$\$\$\$ * 2'-0' U 6FI	2 3 4
SECO	NDARY MASTER GARAGE	5 6
1 5.00-		PLAN:
SHOI	N FOR INTENT ONLY. THESE SYSTEMS SHALL BE NEERED BY OTHERS, THE CONTRACTOR SHALL BE	150.1446
RESP	PONSIBLE FOR PROPER INSTALLATION AND CEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE	SHEET
2. PRO	VIDE SWITCH, LIGHT, I2OV (AFCI & TR) DUPLEX	
REGI IN A	EPTACLE, & FUEL GAS STUB OR 2200 RECEPTACLE TTIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.	J.4
3. SMO BE	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO LOCATED AT HIGHEST POINT OF CEILING	
4. 20 1	TOOT #4 REBAR FOR UFER GROUND AND	
INTE	REACE PLAN FOR LOCATION.	RALEIGH-DURHAM
5. 200 PLAI	AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL CHECK PERMIT REQUIRED IF LOAD EXCEED 400	
	<i>ɔ</i> .	J JU SERIES



FIRST FLOOR UTILITY PLAN OPTIONS

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

*

	UTILITY LEGEND	
÷	120V DUPLEX CONVENIENCE RECEPTACLE	
	12" ABV. FIN. FLR. TYPICAL U.N.O.	
i⊕ we	W WATER RESISTANT HOUSING	
inter en e	120V (TR) RECEPTACLE W/ GFI CIRCUIT	
₩ L		
	20V (AFG) & TR) RECESSED FLOOR	
0	RECEPTACLE W COVER	
⊕	SWITCH CONTROLLED, 1/2 HOT	
1 € 220 v	220V SINGLE CONVENIENCE RECEPTACLE HEIGHT NOTED AS PER PLAN	
÷\$	TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR.	
+ 69- 8	THREE-POLE LIGHT SWITCH	
⊦69 -4	FOUR-POLE LIGHT SWITCH	
ю́-м.р.	WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING	
ю	WALL MOUNTED INCANDESCENT	
	WALL MOUNTED FLUORESCENT	
~~~	LIGHT FIXTURE	
-¢-	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE	
-\$-	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE	NORTH CAROLINA
¤	HANGING INCANDESCENT	50' CEDIEC
<b>A</b>	RECESSED INCANDESCENT DIRECTIONAL	JU SERIES
		KB HOME
	RECESSED INCANDESCENT LIGHT FIXTURE LIGHTING - TRAVERSE II LED FIXTURE - PER	NORTH CAROLINA DIVISION
<b>峄</b> 内	SPECS RECESSED INCANDESCENT LIGHT FLYTIPE	4506 S. MIAMI BLVD.
₩.P.	W WATER RESISTANT HOUSING	DURHAM, NC 27703
₩ ©	RECESSED FLUORESCENT LIGHT FIXTURE	■ TEL: (919) 768-7980 ■
	RECESSED EXHAUST FAN/ INCANDESCENT	
₽ Ø		
Ø	RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION	
D	INCANDESCENT WALL SCONCE	2018 NORTH
]	ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET	
		CARULINA SIAIE
	24"x48" FLUORESCENT LIGHT	BUILDING
	BOX (CEILING PICUNTED)	
		CODES
Li II i		
<del> </del>	12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)	
Ē	OPTIONAL PRE-WIRED CEILING FAN	
Q	AND SMITCH - LOCATED IN CENTER OF ROOM U.N.O.	
нQ	WALL MOUNTED JUNCTION BOX	
	DOOR CHIME	
ΗM	CATV RECEPTACLE	PROJECT No.: 1350999:57
He M	PUSH BUTTON	DIVISION MGR.: M.P.
	SERVICE BOX	REVISIONS:
B	HOSE BIB	
-#нв	HOSE BIB W/ S.O.V.	
— см		
9	SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED	-
⊗	APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.	-
HT	THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)	
<b>⊢</b> ⊕	GAS TAP GAS KEY - FIREPLACE GAS VALVES SHALL BE	
ŀ₩	LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET	-
sn	ITCHING FOR 24" MIN. SEPERATION	
RC	TIONS AS SHOWN BELOW	-
LIGHT / F ½ HC		FOR INTERNAL USE ONLY REVIEWED BY:
=		3
SECC	NDARY MASTER GARAGE	5 6
I. MEG	HANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE	PLAN:
SHO	AN FOR INTENT ONLY. THESE SYSTEMS SHALL BE NEERED BY OTHERS. THE CONTRACTOR SHALL BE	150.1446
RESI PLA	PONSIBLE FOR PROPER INSTALLATION AND SEMENT, ALL HEIGHTS SHOWN ARE TO CENTERLINE	SHEET:
2. PRO	VIDE SWITCH, LIGHT, 120V (AFCI & TR) DUPLEX	52 .
REC IN A	EPTACLE, & FUEL GAS STUB OR 220V RECEPTACLE ITIC FOR F.A.U PER COMMUNITY SPECIFICATIONS.	5.5
3. SMO BE	KE DETECTORS IN ROOMS WITH VOLUME CEILING TO LOCATED AT HIGHEST POINT OF CEILING	SPEC LEVEL 1
4. 20 F	FOOT #4 REBAR FOR UFER GROUND AND	
INTE	RFACE PLAN FOR LOCATION.	RALEIGH DURHAM
5. 200 PLA AMB	AMT ELECTRICAL MANEL (DEFAULT). ELECTRICAL N CHECK PERMIT REQUIRED IF LOAD EXCEED 400 S.	



<u>NOOK</u>

PARTIAL SLAB INTERFACE PLAN

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

FAMILY



## PARTIAL ROOF PLAN

SCALE 1/8"=1'-0" (22"×34") - 1/16"=1'-0" (11"×17")

## SCREENED-IN PATIO 'B'

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

ELEVATION NOTES	
NOTE: NOT ALL KEY NOTES APPLY.	
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	
9. DECORATIVE SHUTTERS	
IO. PEDIMENT. SEE ELEVATION FOR TYPE	. <b></b> .
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.	
17. SHAKE SIDING	
18. STONE VENEER PER SPECS	
19. BRICK/MASONRY VENEER PER SPECS	
20. BUILT UP BRICK COLUMN	
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 CAROLINA
27. LIGHT WEIGHT PRECAST STONE TRIM	
29. WRAP	SU'SERIES
30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE	s KR HOME
31. BRACKET OR KICKER - FYPHON OR EQ.	NORTH CAROLINA DIVISION
32. ENTRY DOOR	
35. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN. 34. SECTIONAL GARAGE DOOR PER SPECS	4506 S. MIAMI BLVD.
35. ALUMINUM WRAP	DURHAM NC 27703
36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS	TEL: (919) 768-7980
38. KEYSTONE	
39. SOLDIER CROWN	
40. JACK SOLDIER COURSE 41. WATER TABLE	
42. ATRIUM DOOR	
43. PILASTER - SEE ELEVATION FOR TYPE	2018 NORTH
PARTIAL PLAN NOTES	CAROLINA STATE
NOTE: NOT ALL KET NOTES APPLY. 27. WATER HEATER LOCATION: - FOR GAS - LOCATE ON 18" HIGH PLATEORN - FOR INTERIOR - COLTION - PROVIDE PAN #	PUULDING
DRAIN. (REFER TO DETAILS) 26. WATER HEATER 'B' VENT TO OUTSIDE AIR	BUILDING
29. MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF	CODES
41. LINE OF FLOOR ABOVE 42. LINE OF FLOOR ABOVE	
46. MIN 36" HIGH GUARDRAIL (REFER TO DETAIL SHEETS) 50. A/C PAD LOCATION	
51. LOW WALL - REFER TO PLAN FOR HEIGHT 52. 2x6 STUD WALL	
54. DBL. 2×4 WALL PER PLAN 55. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT	
57. FLAT SOFFIT 58. ARCHED SOFFIT	8 8 8 8 8 8
60. OPT. DOOR/ WINDOW 61. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)	
62. BRICK / STONE VENEER - REFER TO ELEVATIONS 63. SECTIONAL GARAGE DOOR PER SPECS	
66. 3" DIAM, CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN, 12" EMBEDMENT INTO CONCRETE.	
(NOT REQUIRED AT ELECTRIC WATER HEATERS OR FOR APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL	ISSUE DATE: 12/13/19
TRAVEL PATH). 68. P.T. POST W/ WRAP.	* PROJECT No.: 1350999:57
70. EGRESS WINDOW 75. WINDOW LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6"	DIVISION MGR.: M.P.
BEYOND WINDOW(S) ON ALL SIDES U.N.O. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE	* REVISIONS:
17. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR SIZE.	J
	8 8
	8 8
	• •
	-
	s s
	FOR INTERNAL USE ONLY REVIEWED BY:
	3
	6 8
NOTE:	PLAN:
THE CRAWL SPACE IS TO BE CONDITIONED PER NC-R SECTION	150 1446
THE CRAWL SPACE VAPOR RETARDER (BARRIER) IS TO BE PER	130.1440
NUTE DECTION R404.2.	SHEET:
NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT	••• <b> </b> 8R5  •
SHOWN HERE	0.05
NOTE: REFER TO BASIC ELEVATIONS FOR INFORMATION NOT	
NOTE	SPEC. LEVEL I
REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE	RALEIGH-DURHAM
L	
	JN SERIES

FAMILY CARPET B'-O" CLG. OPT. 9-O" CLG.

NOOK F.M. SEE SPECS. 8'-0" CLG. 0PT. 9'-0" CLG.

PARTIAL FIRST FLOOR PLAN

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



Truss Connector List			
Symbol Manuf		Product	Qty
A	Simpson	HUS26	17
	-		
AS INFO	Simpson	H2.5A	60
Н	Simpson	HTS20	4





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

inte		CP GOL	ORDER: 22860	SHIP DATE: #######
Mason Po	HOME	x 10x10 (	P.O. NUMBER: PO#	REV: XXXXXX
Lot 19 @	KB	.1446 "B"	SCALE	PRINT DATE: 12-23-19
PROJECT:	CUSTOMER:	150 <b>150</b>	SCALE: NOT TO (	DRAWN BY: MWM
Т	TOP LIVE: 20 PSF			
ТС	)P DE	EAD:	10 P	SF
BO	TM D	EAD	: 10 F	PSF
WIN	ID SF	PD:	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 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 BEARING CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY				

RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

# **STRUCTURAL PLANS FOR:**



BUILT 150.1446 - LH GARAGE					
PLAN R	ARCH PLAN VERSION	REVISION DESCRIPT	ΓΙΟΝ		DRFT
12/12/2019	1446-150-1 - 12-13-19				CAR
12/12/2019	1446-150-L - 12-13-19	CREATED LOT-SPECIFIC STR	RUCTURAL LAYOUT FROM MASTER PLA	AN AND EWP LAYOUT	CAR
	NOTES		CODE	ENGINEER OF RECORD	
				JDS CONSULTING & DESIGN, PLLC	
1. ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL         3. PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:		AND MATERIAL QUALITY AND SELECTION SHALL BE PER:	ENGINEERING, BUILDING DESIGN, & CONSTRU	CTION	

NO	TES	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> </ol>	<ol> <li>PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:</li> <li>A. IF THESE PLANS ARE ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR 18 MONTHS FROM THE DATE ON THE SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE PLACED IN EFFECT BY THE MUNICIPALITY.</li> <li>B. IF THESE PLANS ARE NOT ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR A CONDITIONAL, ONE-TIME USE FOR THE LOT OR ADDRESS SPECIFIED ON THE TITLE BLOCK.</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: 1990

. . . . . . . . . . н. . . . н. . . . KB HOME NORTH CAROLINA DIVISION 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582 SFAL 045403 12/20 GINEE PLES E. THES E. P-0961 CONSULTING & DESIGN JDS CONSULTING & DESIGN, PLLC 8600 'D' JERSEY CT, RALEIGH, NC 27617 919.480.1075 INFO@JDSDESIGNONLINE.COM WWW.JDSDESIGNONLINE.COM PROJECT NO.: 19902368 1/2/2019 DATE: . . . . PLAN: . 150.1446 . . . . . . . TITLE SHEET

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02368

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 VERIEVALL 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.

KS

KING STUD COLUMN

ABBREVIATIONS

			LANGULATED VENCED
		LVL	
ABV	ABOVE	MAY	
AFF	ABOVE FINISHED FLOOR		
ALT	ALTERNATE	METD	
BRG	BEARING		MINIMUM
BSMT	BASEMENT	NTS	
CANT	CANTILEVER	0.0	OVERALL
CJ	CEILING JOIST	00	ON CENTER
CLG	CEILING	БТ	
СМО	CONCRETE MASONRY UNIT		DIGED
со	CASED OPENING	N DEE	
COL	COLUMN	REF	REFRIGERATOR
CONC	CONCRETE	RFG	
CONT	CONTINUOUS	RU	
D	CLOTHES DRYER	R3 80	
DBL	DOUBLE	30	SOUNDE EOOT (EEET)
DIAM	DIAMETER	<b>Э</b> Г	SQUARE FOUT (FEET)
DJ	DOUBLE JOIST	SH	SHELF / SHELVES
DN	DOWN	SHIG	SHEATHING
DP	DEEP	SHW	SHOWER
DR	DOUBLE RAFTER	SIN	
DSP	DOUBLE STUD POCKET	5J	SINGLE JUIST
EA	EACH	SP	STUD POCKET
EE	EACH END	SPECD	SPECIFIED
EQ	EQUAL	SQ	SQUARE
EX	EXTERIOR	I	IREAD
FAU	FORCED-AIR UNIT	TEMP	TEMPERED GLASS
FDN	FOUNDATION	THK	THICK(NESS)
FF	FINISHED FLOOR	TJ	TRIPLE JOIST
FLR	FLOOR(ING)	TOC	TOP OF CURB / CONCRETE
FP	FIREPLACE	TR	TRIPLE RAFTER
FTG	FOOTING	TYP	TYPICAL
HB	HOSE BIBB	UNO	UNLESS NOTED OTHERWISE
HDR	HEADER	W	CLOTHES WASHER
HGR	HANGER	WH	WATER HEATER
JS	JACK STUD COLUMN	WWF	WELDED WIRE FABRIC
		XJ	EXTRA JOIST

## MATERIALS

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

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

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, Fv = 50 KSI
- 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.
  - B. 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.
- 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.
- STRUCTURAL COMPONENTS.
- CONSTRUCTION
- 7.
  - LUMBER

    - DETAILS.
- SPECIFICATIONS

- C.
- 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

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 ELOOR 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 INSTALLATION OF THE SYSTEMS SHALL BE PER

MANUFACTURER'S INSTRUCTIONS.

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

10. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS, UNO.

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

#### SEE <u>TABLE R602.3(1)</u> FOR ADDITIONAL STRUCTURAL-MEMBER FASTENING REQUIREMENTS.

### DETAILS AND NOTES ON DRAWINGS GOVERN.

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

	MAX HEIGHT (PLATE TO PLATE)
FRAMING MEMBER SIZE	115 MPH ULTIMATE DESIGN WIND 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 FACH FND			

#### * 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.





**SLAB FOUNDATION PLAN - 'B'** 

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

#### BEAM & POINT LOAD LEGEND

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

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





**FIRST FLOOR CEILING FRAMING PLAN - 'B'** 

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

#### BEAM & POINT LOAD LEGEND

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

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" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER"S SPECIFICATIONS).
- 12. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).





FIRST FLOOR WALL BRACING PLAN - 'B'

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



WALL BRACING: RECTANGLE 1				
SIDE	REQUIRED LENGTH	PROVIDED LENGTH		
FRONT	6.0 FT.	17.0 FT.		
RIGHT	7.0 FT.	16.0 FT.		
REAR	6.0 FT.	15.0 FT.		
LEFT	7.0 FT.	12.0 FT.		





**ROOF FRAMING PLAN - 'B'** 

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

BEAM & POINT LOAD LEGEND         INTERIOR LOAD BEARING WALL         ROOF RAFTER / TRUSS SUPPORT         DUBLE RAFTER / DOUBLE JOIST         STRUCTURAL BEAM / GIRDER         WINDOW / DOOR HEADER         POINT LOAD TRANSFER         POINT LOAD TRANSFER         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 TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SALED 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	КВ НОМЕ         0 00000000000000000000000000000000000
TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING         TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS, OR BEAWS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE:         ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.         ROOF PLAN UP TO 28'       CONNECTOR NALING PER TABLE 602.3(1) NCRBC 2018 EDITION         OVER 28'       (1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM	P-0961
SINGLE 2x4 PLATE	CONSULTING & DESIGN JDS CONSULTING & DESIGN, PLLC 8600 'D' JERSEY CT, RALEIGH, NC 27617 919.480.1075 INFO@JDSDESIGNONLINE.COM WWW.JDSDESIGNONLINE.COM WWW.JDSDESIGNONLINE.COM DATE: 1/2/2019







