

NORTH CAROLINA 40' SERIES PLAN 237.2723-R

SHELF AND POLE

SMOKE DETECTOR

SOLID CORE

SECTION

SHEET

SHEATHING

SHOWER

SIMILAR

SLIDING

THICK

TYPICAL

WASHER

MOOD

SLIDING GLASS

SHEET VINYL

TEMPERED GLASS

TOP OF PLATE TOP OF SLAB

UNLESS NOTED OTHERWISE VAPOR PROOF

MATER HEATER

MEATHER PROOF

SHEET INDEX

PLAN #237.2723

SLAB INTERFACE PLAN 'A'
PARTIAL SLAB INTERFACE PLAN 'B', 'C', & 'D'
CRAWL SPACE PLAN 'A'
PARTIAL CRAWL SPACE PLAN 'B', 'C', & 'D'

ROOF PLAN, FRONT & REAR ELEVATIONS 'A'

LEFT & RIGHT ELEVATIONS A"
PARTIAL FIRST FLOOR PLAN, FRONT ELEVATION, PARTIAL LEFT ELEVATION 'A' AT CRAWL SPACE
FRONT ELEVATIONS 'A' AT OPTIONAL 9"-1" PLATE HEIGHT AT SLAB & CRAWL SPACE

PARTIAL FIRST & SECOND FLOOR PLANS 'B' ROOF PLAN, FRONT & REAR ELEVATIONS 'B' LEFT & RIGHT ELEVATIONS 'B'

PARTIAL FIRST FLOOR PLAN, FRONT ELEVATION, PARTIAL LEFT ELEVATION 'B' AT CRAWL SPACE FRONT ELEVATIONS B' AT OPTIONAL 9'-1" PLATE HEIGHT AT SLAB & CRAWL SPACE

PARTIAL FIRST & SECOND FLOOR PLANS 'D'
ROOF PLAN, FRONT & REAR ELEVATIONS 'D'
LEFT & RIGHT ELEVATIONS 'D'
PARTIAL FIRST FLOOR PLAN, FRONT ELEVATION, PARTIAL LEFT ELEVATION 'D' AT CRAWL SPACE
FRONT ELEVATIONS 'D' AT OPTIONAL 9'-1" PLATE HEIGHT AT SLAB & CRAWL SPACE

INTERIOR ELEVATIONS

FIRST FLOOR UTILITY PLAN SECOND FLOOR UTILITY PLAN FIRST FLOOR UTILITY PLAN OPTIONS SECOND FLOOR UTILITY PLAN OPTIONS

PARTIAL FLOOR PLAN, ELEVATIONS, CRAWL SPACE PLAN 'A/B/C/D' AT 12'x12' DECK PARTIAL FLOOR PLAN, ELEVATIONS, CRAWL SPACE PLAN 'A/B/C/D' AT 23'x12' DECK PARTIAL FLOOR PLAN, ROOF, ELEVATIONS, CRAWL SPACE PLAN 'A/B/C/D' AT 12'x12' COVERED DEC

PARTIAL FLOOR PLAN, ROOF, ELEVATIONS, CRANL SPACE PLAN "A/B/C/D" AT 23:X12" COVERED DEA PARTIAL FLOOR PLAN, ROOF, ELEVATIONS, CRANL SPACE PLAN "A/B/C/D" AT 12:X12" SCREENED DEA PARTIAL FLOOR PLAN, ROOF, ELEVATIONS, CRANL SPACE PLAN "A/B/C/D" AT 23:X12" SCREENED DE

PARTIAL FLOOR PLAN, ROOF & ELEVATIONS 'A', 'B', 'C', & 'D' W OPT. COVERED PATIO PARTIAL FLOOR PLAN, ROOF & ELEVATIONS 'A', 'B', 'C', & 'D' W OPT. EXTENDED COVERED PATIO PARTIAL FLOOR PLAN, ROOF & ELEVATIONS 'A', 'B', 'C', & 'D' W OPT. COVERED SCREENED PATIO PARTIAL FLOOR PLAN, ROOF & ELEVATIONS 'A', 'B', 'C', & 'D' W OPT. EXTENDED SCREENED COVERED PATIO

PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W OPT. SUNROOM PARTIAL FLOOR PLAN, ROOF & ELEVATIONS & CRAWL SPACE PLAN 'A/B/C/D/' W OPT. SUNROOM

ARCHITECTURAL DETAILS

Harnett



| | AD | DILL | VIAIIO | 116 |
|----------|------------------|------------|------------------------|--------------|
| ABV. | ABOVE | G.F.I. | GROUND-FAULT | R.O. |
| A/C | AIR CONDITIONING | | CIRCUIT | 5 # P |
| ADJ. | ADJUSTABLE | G.I. | GALVANIZED IRON | S.C. |
| ALT | ALTERNATE | GL. | GLASS | S.D. |
| AMP. | AMPERAGE | GYP. BD. | GYPSUM BOARD | SEC. |
| BD. | BOARD | H.C. | HOLLOW CORE | S.H. |
| 4 | CENTER LINE | HDR. | HEADER | SHT. |
| CAB. | CABINET | HGT. / HT. | HEIGHT | SHTHG |
| CLG. | CEILING | H.H. | HEADER HEIGHT | SHMR. |
| CLR. | CLEAR | HS | HORIZONTAL | SIM. |
| CONC. | CONCRETE | | SLIDER | SL. |
| CPT. | CARPET | I.L.O. | IN LIEU OF | SL. GL |
| C.T. | CERAMIC TILE | INSUL. | INSULATION | STD. |
| D. | DRYER | INT. | INTERIOR | 5 .V. |
| DBL. | DOUBLE | LAM. | LAMINATED | TEMP. |
| D.G. | DUAL GLAZED | LAV. | LAVATORY | THK. |
| DIA. | DIAMETER | LUM. | LUMINOUS | T.O.C. |
| DIM. | DIMENSION | M.C. | MEDICINE CABINET | T.O.P. |
| DISP. | DISPOSAL | MFR. | MANUFACTURER | T.O.S. |
| DL. | DIVIDED LIGHT | MIN. | MINIMUM | TYP. |
| DP. | DEEP | MTD. | MOUNTED | U.N.O. |
| DR. | DOOR | MTL. | METAL | |
| D.S. | DOWNSPOUT | N.I.C. | NOT IN CONTRACT | V.P. M. |
| DTL. | DETAIL | N.T.S. | NOT TO SCALE | M. W/ |
| D.M. | DISHMASHER | 0/ | OVER | MD. |
| EA. | EACH | 0.0. | ON CENTER | ND. NDW. |
| ELEV. | ELEVATION | OPT. | OPTIONAL | NUN. M/H |
| EQ. | EQUAL | 0.5.A. | OUTSIDE AIR | |
| EXH. | EXHAUST | 怛 | PROPERTY LINE | M.I. |
| EXT. | EXTERIOR | P.B. | PUSH BUTTON | M.P. |
| FAU | FORCED AIR UNIT | PH. | PHONE | |
| F.C. | FIBER CEMENT | PLT. | PLATE | |
| F.G./FX. | FIXED GLASS | PLYMD. | PLYWOOD | |
| F.G. | FUEL GAS | PR. | PAIR | |
| FIN. | FINISH | P.T.D.F. | PRESSURE | |
| FLR. | FLOOR | | TREATED DOUGLAS FIR | |
| ELD LINE | ELOOP LINE | | | |

FLR. LINE FLOOR LINE

FR. DR

FLUORESCENT

FOOTING

GAR. DISP. GARBAGE DISPOSAL

GAUGE

FRENCH DOOR

FLOOR MATERIAL

ABBREVIATIONS

RADIUS

RE-SAWN

REVERSE

ROOM

RETURN AIR GRILL

REFRIGERATOR

R.A.G.

REF.

RE/S

BUILDING SECTION SECTION INDICATOR SHEET NUMBER DETAIL REFERENCE DETAIL NUMBER KEYNOTE REFERENCE REFERENCE NUMBER OFFSET REFERENCE REVISION REFERENCE REFER TO TITLE SHEET **SCALE NOTE** BOX IS I" SQ. THEN SCALE IS 1/4" = 1'-0" F BOX IS 1/2" SQ. THEN SCALE IS 1/8" = 1'-0"

ARCH. SYMBOLS

CONSULTANTS OWNER :

<u>/6</u>

KB HOME NORTH CAROLINA DIVISION 4506 S. MIAMI BLVD., SUITE 180 DURHAM, NC. 27703 TEL. (919) 768-7980 FAX. (919) 544-2928

KB HOME 5230 PACIFIC CONCOURSE DRIVE, SUITE 330 LOS ANGELES, CA 90045

TEL: (424) 294-3700 FAX: (3IO) 297-267I

SECOND FLOOR AREA 1488 TOTAL AREA 2723 SQ FT SARAGE AREA SQ. F PORCH AREA(S) ELEVATION 'A' ELEVATION 'B' FI EVATION 'D' SQ. FT. ATIO AREA(S) IO'x20' COVERED 200 SQ. FT. ECK AREA(S) 276 12'x23' IROOM AREA

SOUARE FOOTAGE

PLAN 237.2723-R

CODE INFORMATION

APPLICABLE CODES: 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE, INCLUDING REFERENCED

PROJECT DESCRIPTION: 2 STORY SINGLE FAMILY DETACHED RESIDENTIAL PLAN W 4 ELEVATIONS

OCCUPANCY:

CONSTRUCTION TYPE:

SHEETS REVISED

03/15/19 T.S., GNI, GN2, GN3, 3.Al, 3.C2, 3.D2, 5.I, 8.I 8 8.4

03/02/20 T5, I.3, I.4, 2.3, 2.4, 3.A3-4, 3.B2-5, 3.C4-5, 3.D4-5, 5.3, 8.3, 84

I.I, I.2, I.4, 3.A2, 3.BI, 3.B3, 3.CI, 3.C3, 3.DI, 3.D3, 5.I, 5.2, 5.4, 8.I, 8.2

DATE

09/27/18 13.53

8 05/22/20 T5, I.I, I.2, I.3, I.4

IO/25/2I TS, 5.I

08/20/20 1.1, 1.3, 1.4, 4.1, 5.3

10 04/05/21 TS. I.I. 5.I. 7.I - 7.6. 9.I. 9.2

02/27/19 5.1

CODE ABBREVIATIONS N.C.-R. NORTH CAROLINA RESIDENTIAL CODE
N.C.-B. NORTH CAROLINA BUILDING CODE N.C.-M. NORTH CAROLINA MECHANICAL CODE NORTH CAROLINA PLUMBING CODE N.C.-E. NORTH CAROLINA ELECTRICAL

NC-EC NORTH CAROLINA ENERGY CODE N.C.-E.O. NORTH CAROLINA ENERGY CODE
IC.B.O. INTERNATIONAL ELECTRICAL CODE
IC.B.O. INTERNATIONAL CONFERENCE
OF BUILDING OFFICIALS
A.S.T.M. AMERICAN SOFICIALS
A.S.T.M. AMERICAN MATICAL STANDAR
A.S.T.M. AMERICAN MATICAL STANDAR
A.S.T.M. AMERICAN MATICAL STANDAR
A.S.T.M. AMERICAN MATICALS STANDAR
A.S.T.M. AMERICAN STAND

AMERICAN NATIONAL STANDARDS A.N.S.I.

I.E.C.C. INTERNATIONAL CODE COUNCIL

UNDERWRITERS LABORATORIES, INC.



NGI8Q4INGE

NCIGOLINGE

NC19015NC1

NC19052NC

NC200ITNC

NC20025NC

NC21019NCI

CORP20003C

PLAN: 237.2723-R

HOME

NORTH CAROLINA

40' SERIES

KB HOME

NORTH CAROLINA DIVISION

4506 S. MIAMI BLVD.

SUITE 180 DURHAM, NC 27703

ISSUE DATE:

DIVISION MGR.:

PROJECT No.: 1350999:56

DIVISION REVISIONS NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

TEL: (919) 768-7980 . FAX: (919) 544-2928

SHEET:

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

REQUIREMENTS

HARDWARE ON THE GARAGE DOOR. EACH HOUSE TO HAVE TURNED DOWN SLAB WITH MIN. 12' EXPOSURE. THE FRONT AND SIDES ARE TO BE FINISHED WITH

ALL EXPOSED PORTIONS OF CONCRETE SLAB FOUNDATIONS ARE TO BE 'PARGED (TEXTURED) AND PAINTED TO MATCH THE

TOWN OF GARNER

EACH HOUSE TO HAVE CARRIAGE STONE/BRICK VENEER.

GENERAL REQUIREMENTS

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

SITE MORK (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.
- 8. EXCAVATIONS SHALL BE KEPT FREE OF STANDING WATER.
- WHERE EXCAVATIONS ARE MADE TO A DEPTH GREATER THAN INDICATED, SUCH ADDITIONAL DEPTH SHALL BE FILLED WITH CONCRETE AS SPECIFIED FOR FOOTINGS.
- FILL MATERIALS SHALL BE FREE FROM DEBRIS, VEGETABLE MATTER AND OTHER FOREIGN SUBSTANCES.
- II. ALL FINISH GRADES TO DRAIN AWAY FROM THE BUILDING FOOTINGS.
- 12. THERE SHALL BE NO ON-SITE WATER RETENTION.
- B. THERE SHALL BE NO DRAINAGE TO ADJACENT PROPERTY.
- FOR ONSITE CONTSRUCTION, PLANS TO COMPLY WITH NECESSARY INSPECTIONS APPROVED BY THE BUILDING OFFICIAL.
- I5. THE REQUIREMENTS IN THESE NOTES ARE THE MINIMUM THAT SHALL BE MET, REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE REQUIREMENTS SHOWN HERE SHALL BE MET.

CONCRETE

- REFER TO STRUCTURAL ENGINEERING CALCULATIONS AND SOILS REPORT FOR THE PERFORMANCE REQUIREMENTS FOR CONCRETE FOUNDATIONS.
- CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE COMPRESORISE STRENGTH AS PRESCRIBED IN THE N.C.-R. AS WELL AS SATISFY THE DURABILITY CRITERIA OF THE N.C.-R
- 3. MIXING OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE
- 4. THE DEPOSITING OF CONCRETE SHALL COMPLY WITH THE PROVISIONS ACI 318. SECTION 5.10.
- THE CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318. SECTION 5.11.
- 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 EMBEDDED IN CONCRETE WITH APPROVAL OF THE REGISTERED DESIGN PROFESSIONAL.
- CONSTRUCTION JOINTS INCLUDING THEIR LOCATION SHALL COMPLY WITH THE PROVISIONS OF ACI 318, SECTION 6.4.
- ALL STEEL REINFORCING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE N.C.-R
- O. TOP OF CONCRETE SLABS TO BE A MINIMUM 4" W/ MASONRY VENEER 6" ELSEWHERE (6" H.J.D.) ABOVE FINISH GRADE.
- FOUNDATION WIDTHS, DEPTHS, AND REINFORCING, AS SHOWN ON PLANS, ARE SUPERCEDED BY ANY LOCAL CODES OR ORDINANCES WHICH REQUIRE INCREASES OF THE SAME.
- 12. ALL REINFORCEMENT, CONDUIT, OUTLET BOXES, ANCHORS, HANGERS, SLEEVES BOLTS OR OTHER 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 FRIOR TO PLACEMENT OF CONCRETE.
- POST-TENSION SLABS, IF APPLICABLE:
- POINT AND LINE LOADS FROM STRUCTURE ABOVE TO BE PROVIDED TO POST-TENSION ENGINEER PRIOR TO POST-TENSION DESIGN.
- B. ANCHOR BOLTS AND OTHER HARDWARE TO BE SHOWN ON POST-TENSION PLANS TO AVOID MIS-LOCATION OF HARDWARE AND POSSIBLE FIELD FIXES WHICH MAY CUT TENDONS.

MASONRY

- ALL MASONRY DESIGN SHALL FOLLOW THE REQUIREMENTS OF THE CURRENT ADOPTED CODES.
- ANCHORED MASONRY VENEER SHALL COMPLY WITH THE PROVISIONS OF N.C.-R. AND SECTIONS 6.I AND 6.2 OF ACI 530/ASCE 57/MS 402.
- STONE VENEER UNITS NOT EXCEEDING 5 INCHES IN THICKNESS SHALL BE ANCHORED DIRECTLY TO MASONRY, CONCRETE OR TO STUD CONSTRUCTION BY ONE OF THE APPROVED METHODS LISTED IN THE NC.-R
- 4. MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL COMPLY WITH ASTM C 270. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE WITH THE N.C.-R AND SHALL MEET THE PROPORTION SPECIFICATIONS OR THE PROPERTY SPECIFICATIONS OF ASTM C 270
- GROUT SHALL CONSIST OF FIBER CEMENT MATERIAL AND AGGREGATE IN ACCORDANCE WITH ASTM C 416 AND THE PROPORTION SPECIFICATIONS FER THE N.C.-R.
- AGGREGATES FOR MORTAR AND GROUT SHALL BE NATURAL SAND AND ROCK CONFORMING TO A.S.T.M. C-I44-04 (MASONRY MORTAR) AND C-404-07 (GROUT).
- 7. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO A.S.T.M. C 150.
- 8. ALL BRICK SHALL CONFORM TO A.S.T.M. C 216, GRADE MW.
- 9. UNLESS SPECIFICALLY SHOWN OTHERWISE ALL BRICK SHALL BE LAID
- IO. ANCHORS, TIES AND WIRE FABRIC SHALL CONFORM TO N.C.-R
- ANCHOR TIES AND WIRE FABRIC FOR USE IN MASONRY WALL CONSTRUCTION SHALL CONFORM TO THE N.C.-R

METALS

- REFER TO STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL, METAL AND REINFORCING STEEL SPECIFICATIONS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO AISC/CRED
- ANCHOR RODS SHALL BE SET ACCURATELY TO THE PATTERN AND DIMENSIONS CALLED FOR ON THE PLANS. THE PROTRUSION OF THE THREADED ENDS THROUGH THE CONNECTED MATERIAL SHALL BE SUFFICIENT TO FULLY ENGAGE THE THREADS OF THE NUTS, BUT SHALL NOT BE GREATER THAN THE LENGTH OF THE THREADS ON THE BOLTS
- 4. FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED MOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILCON BRONZE OR COPPER VERIETY ACCEPTABLE FASTENERS FER CHEMICALS USED IN PRESSURE PRESERVITIVELY TREATED MOOD MY N.C.-R. FASTENINGS FOR MOOD FOUNDATIONS SHALL BE AS REQUIRED IN AFAPA TECHNICAL REPORT NO. 7.

WOOD & FRAMING

UMBER

- THE DESIGN AND CONSTRUCTION OF CONVENTIONAL LIGHT-FRAME WOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE N.C.-R
- CONSTRUCTION, PROJECTIONS, OPENINGS AND PENETRATIONS OF EXTERIOR WALLS OF DWELLINGS AND ACCESSORY BUILDINGS SHALL COMPLY WITH TABLE RSO2J.
- ALL LUMBER SHALL MEET THE STANDARDS OF QUALITY AS STATED IN THE N.C.-R
- LUMBER AND PLYWOOD REQUIRED TO BE PRESSURE PRESERVATIVELY TREATED IN ACCORDANCE WITH THE NC.-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.
- 5. ALL LUMBER SIZES NOTED AND SPECIFIED ON PLANS ARE NOMINAL SIZES UNLESS SPECIFICALLY INDICATED AS NET SIZE.

GLUE LAMINATED LUMBER

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

PROTECTION AGAINST DECAY & TERMITE

- IN AREAS SUBJECT TO DECAY DAMAGE AS ESTABLISHED BY THE N.C.-R THE FOLLOWING LOCATIONS SHALL REQUIRE THE USE OF NATURALLY DURABLE MOOD OR MOOD THAT IS PRESERVATIVE TREATED IN ACCORDANCE WITH AWAP UI FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE, PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA UI
- I. WOOD JOISTS OR THE BOTTOM OF WOOD FLOOR WHEN CLOSER THAN IB INCHES, OR WOOD GIRDERS MHEN CLOSER THAN I2 INCHES TO THE EXPOSED GROUND IN CRANL SPACES OR UNEXCAVATED AREAS LOCATED MITHIN THE PERIPHERY OF THE BUILDING FOUNDATION.
- 2. ALL EXTERIOR SILLS &PLATES THAT REST ON CONCRETE OR MASONRY 5 EXTERIOR FOUNDATION WALLS.
- SILLS AND SLEEPERS ON A CONCRETE OR MASONRY, UNLESS THE SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND IS SEPARATED FROM THE GROUND BY AN APPROVED IMPERVIOUS MOISTURE BARRIER.
- THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 0.5 INCH ON TOPS, SIDES AND ENDS.
- WOOD SIDING AND SHEATHING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6 INCHES FROM THE GROUND.
- MOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOFS THAT ARE EXPOSED TO THE MEATHER, SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOFS BY ANIMPERVIOUS MOISTURE BARRIER.
- 7. WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED 2. DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING STRIPS OR FRAMING MEMBERS.
- ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POSTS, GUARDRAILS, PICKETS, STEPS AND FLOOR STRUCTURE. COVERINGS THAT MOULD PREVENT MOISTURE OR WATER ACCUMILATION ON THE SURFACE OR AT JOINTS BETWEEN IMPUBERS ARE ALLOWED.
- . IN AREAS SUBJECT TO DAMAGE FROM TERMITES METHODS OF PROTECTION SHALL BE ONE OF THE METHODS LISTED IN THE N.C.-R
- UNDER-FLOOR AREAS SHALL BE VENTILATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R

WOOD \$ FRAMING (continued)

SHEATHING

- WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE N.C.-R
- ROOF SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND MITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- . ROOF SHEATHING SHALL BE IN ACCORDANCE WITH THE N.C.-R
- FLOOR SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- STRUCTURAL FLOOR SHEATHING SHALL COMPLY WITH THE PROVISIONS OF THE N.C.-R
- . REFER TO THE STRUCTURAL ENGINEER'S CURRENT SPECIFICATIONS, CALCULATIONS, AND PLANS FOR REQUIRED STRENGTH, GRADE, AND THICKNESS FOR PLYMOOD FLOOR SHEATHING PANELS AND FOR DIAPHRAGM NAILING AND ADHESIVE REQUIREMENTS.
- ALL VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER, AND BE FASTENED TO, COMMON STUDS. HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER, AND BE FASTENED TO, COMMON BLOCKING OF A MINIMUM OF I I/2 INCH THICKNESS.
- WHERE APPLICABLE, REFER TO THE SHEAR WALL SCHEDULE FOR REQUIRED STRENGTH, GRADE, AND THICKNESS OF PLYMOOD SHEAR PANELS AND FOR REQUIRED SHEAR WALL NAILING SCHEDULE.
- I. IN ONE- AND TWO-FAMILY DWELLING CONSTRUCTION USING HARD BOARD OR ALUMINUM AS A SOFFIT MATERIAL, THE SOFFIT MATERIAL SHALL BE SECURELY ATTACHED TO FRAMING MEMBERS AND USE AN UNDERLAYMENT MATERIAL OF EITHER FIRE RETARDANT TREATED WOOD, 23/92 INCH WOOD SHEATHING OR 5/8 INCH SYPSUM BOARD, VENTING REQUIREMENTS APPLY TO BOTH SOFFIT AND UNDERLAYMENT AND SHALL BE PER SECTION ROOF OF THE NORTH CAROLINA RESIDENTIAL CODE. WHERE THE PROPERTY LINE IS 10 FEET OR MORE FROM THE BUILDING FACE, THE PROVISIONS OF THIS CODE SECTION DO NOT APPLY.

FLOOR FRAMING

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

ROOF FRAMING

- ROOF FRAMING SHALL BE BY PRE-MANUFACTURED ROOF TRUSSES SPACED AT 24 INCHES ON CENTER UNLESS NOTED OTHERWISE.
- WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R
- THE MANUFACTURER SHALL SUPPLY TO THE ARCHITECT AND BUILDER CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL OF DESIGN LOADS, CONFIGURATION (2 OR 5 POINT BEARING), VOLUME CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION.
- THE BRACING OF WOOD TRUSSES SHALL COMPLY TO THEIR APPROPRIATE ENGINEERED DESIGN. PER THE N.C.-R
- 5. TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOAD (E.G. HYAC EQUIPMENT, WATER HEATER) THAT EXCEEDS THE DESIGN LOAD FOR THE TRUSSES SHALL NOT BE PERMITTED MITHOUT WRITTEN VERPICATION 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 15 TO BE BUILT.
- MANUFACTURER IS TO SECURE BUILDING DEPARTMENT APPROVAL OF CALCULATIONS AND SHOP DRAWINGS PRIOR TO FABRICATION.

MALL FRAMING

- THE SIZE, HEIGHT, AND SPACING OF STUDS SHALL BE IN ACCORDANCE WITH THE N.C.-R
- STUDS SHALL BE PLACED WITH THEIR WIDE DIMENSION PERPENDICULAR TO THE WALL.
- NOT LESS THAN THREE STUDS SHALL BE INSTALLED AT EACH CORNER OF AN EXTERIOR WALL.
- MOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS, END JOINTS IN TOP PLATES SHALL BE OFFSET AT LEAST 24 INCHES, JOINTS NEED NOT OCCUR OVER STUDS, PLATES SHALL BE NOT LEGS THAN 2-INCHES NOMINAL THICKNESS AND HAYE A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS, SEE
- . MHERE 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 MITHIN 5 INCHES OF THE STUDS BENEATH, SEE EXCEPTIONS.
- 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.
- 1. INTERIOR NONBEARING WALLS SHALL BE PERMITTED TO BE CONSTRUCTED MITH 2-INCH-BY-3-INCH STUDS SPACED 24 INCHES ON CENTER OR, WHEN NOT A PART OF A BRACED MALL LINE, 2-INCH-BY-4-STUDS SPACED 16 INCHES ON CENTER, INTERIOR NONBEARING WALLS SHALL BE CAPPED WITH AT LEAST A SINGLE TOP PLATE, INTERIOR NONBEARING WALSHALL BE FIREBLOCKED IN ACCORDANCE WITH THE NO.-R

MOOD & FRAMING (continued)

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

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

 (b) THE EXTERIOR MALLS OF A KITCHEN MAY BE REINFORCED BY PLACING 1/2-INCH PLYWOOD OR EQUIVALENT REINFORCEMENT ON THE NOTCHED SIDE OF THE WALL. PLYWOOD, IF USED, SHALL REACH FROM THE FLOOR TO COUNTER-TOP HEIGHT AND AT LEAST ONE STUD FIRTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.
- 9. WHEN PIPING OR DUCTHORK IS PLACED IN OR PARTIALY IN AN EXTERIOR OR INTERIOR LOAD-BEARING WALL, NECESSITATION CUTTING, DRILLING OR NOTCHING OF THE TOP PLATE B MORE THAN 50 PERCENT OF ITS WIDTH A GALYANIZED METAL TIE OF NOT LESS THAN 0.054 INCH THICK AND I 1/2" INCHES WIDE SHALL BE FASTENED ACROSS AND TO THE PLATE A TEACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT IOD NAILS HAVING A MINIMUM LENGTH OF I/2 INCHES (38 MM) AT EACH SIDE OR EQUIVALENT. THE METAL TIE MUST EXTEND A MINIMUM OF 6 INCHES PAST THE OPENING.
- IO. HEADERS SHALL MEET THE REQUIREMENTS OF THE N.C.-R
- II. PROVIDE LATERAL BRACING PER THE N.C.-R
- IB. FOUNDATION CRIPPLE WALLS SHALL MEET THE REQUIREMENTS OF THE
- 14. WOOD STUD WALLS SHALL BE BRACED AS REQUIRED BY THE N.C.-R
- IS. UNLESS COVERED BY INTERIOR OR EXTERIOR WALL COVERINGS OR SHEATHING MEETING THE MINIMAY REQUIREMENTS OF THIS CODE, ALL STUD PARTITIONS OR WALLS WITH STUDS HAVING A HEIGHT-TO-LEAST THICKNESS RATIO EXCEEDING SO SHALL HAVE BRIDGING NOT LESS THAN 2 INCHES IN THICKNESS AND OF THE SAME WIDTH AS THE STUDS HITTED SNUGLY AND NAILED THERETO TO PROVIDE ADEQUATE LATERAL SUPPORT.

FIRE BLOCKS AND DRAFT STOPS

- FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE BARRIER BETWIETH 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 25/82-INCH WOOD STRUCTURAL PARALES WITH JOINTS
 BACKED BY 25/82-INCH WOOD STRUCTURAL PANELS OR ONE THICKNESS
 OF 3/4-INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH
 PARTICLEBOARD, I/2-INCH GYPSOM BOARD, OR I/4-INCH CEMENT-BASED
 MII I BOARD.
- BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE SHALL BE PERMITTED AS AN ACCEPTABLE FIRE BLOCK.
- 4. BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE FERMITTED FOR COMPLIANCE MITH THE 10 FOOT HORIZONTAL FIREELOCKINS IN WALLS CONSTRUCTED USING PARALLEL ROVE OF STUDS OR STAGGERED STUDS. LOOSE FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREELOCK NULSES SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE IT'S ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASSES.
- WHEN THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR/CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED JOOO SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS, WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES:
- I. 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.





NORTH CAROLINA 40' SERIES

MASTER SET

01/21/2022

KB HOME NORTH CAROLINA DIVISION

4506 S. MIAMI BLVD.
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ISSUE DATE: 02/23/17
PROJECT No.: 1350999:56

DIVISION MGR.:

REVISIONS:

DIVISION REVISIONS
RC1901INCF- 2/27/19 CTD

S 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

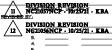
DIVISION REVISIONS
NCI9052NCP- 08/02/18 FAB

DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES
NC20025NCP/ 05/22/20 / KBA

HOME OFFICE
CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD



PLAN: 237.2723-R SHEET: GN1

spec level 1
RALEIGH-DURHAM
40' SERIES

THERMAL & MOISTURE PROTECTION

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

FLASHING

- ASTM C 1167.

 AS ALLED AT ALL OF THE LOCATIONS STATED IN N.C.-R.
- AT ALL WINDOW AND DOOR OPENINGS USE FORTIFIBER WATER-RESISTIVE BARRIERS, I.C.C. ESR-1027, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, OR APPROVED EQUAL.
- ALL BEAMS, OUTLOOKERS, CORBELS, ETC. PROJECTED THROUGH EXTERIOR WALLS OR PENETRATING EXTERIOR FINISHES SHALL BE FLASHED WITH A MINIMUM O.019-INCH (NO. 26 SHEET METAL GAGE) CORROSION-RESISTANT METAL AND CAULKED.
- ALL SHEET METAL WORK SHALL BE PERFORMED IN ACCORDANCE ALL SHELL FIGHT ADAYS SHALL BE TENTINED IN PROCESSIONAL WITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA). THE ARCHITECTURAL SHEET METAL MANUAL, AND SEALANT, WATERPROOFING 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 A S.T.M. A525 AND SHALL BE A NUMBER 24 SHEET METAL GAGE UNLESS OTHERNISE NOTED IN THESE NOTES, PLANS, OR MANUFACTURER'S SPECIFICATIONS.
- SHEET ALUMINUM SHALL CONFORM WITH FEDERAL SPECIFICATIONS QQ-A-359 AND A.S.T.M. B209 ALLOY 3003.
- FABRICATE SHEET METAL WITH FLAT LOCK SEAMS AND SOLDER WITH TYPE AND FLUX RECOMMENDED BY MANUFACTURER. SEAL ALUMINUM SEAMS WITH EPOXY METAL SEAM CEMENT. WHERE REQUIRED FOR STRENGTH, RIVET SEAMS AND JOINTS.
- SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE IN ACCORDANCE WITH APPLICABLE STANDARDS TO PROVIDE A PERMANENTLY MATER-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 MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL OF MINIMM MOMINAL, O/014-INCH THICKNESS OR MINERAL SURFACE ROLL ROOFING MEIGHING A MINIMM OF 77 FOUNDS PER IOO SQUARE FEET. CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMM NOMINAL O/014-INCH THICKNESS
- VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING SHINGLES, VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED AS STATED PER THE N.C.-R
- A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES MIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL OR OF THE SAME MATERIAL AS THE ROOF COVERING. PROVIDE TLASHING AT THE INTERSECTION OF CRICKET OR SADDLE AND
- FLASHING AGAINST A VERTICAL SIDEMALL SHALL BE BY THE STEP-FLASHING METHOD PER NC-R.
- FLASHING AGAINST A VERTICAL FRONT WALL, AS WELL AS SOIL STACK VENT PIPE AND CHIMNEY FLASHING, SHALL BE APPLIED ACCORDING TO IALT SHINGLE MANUFACTURER'S PRINTED INSTRUCTIONS
- AT THE JUNCTURE OF ROOF VERTICAL SURFACES, FLASHING AND COUNTERFLASHING SHALL BE PROVIDED IN ACCORDANCE WITH THE N.C.-R. AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND NHERE OF METAL, SHALL NOT BE LESS THAN O.O.I. INCH (NO. 26 GALVANIZED
- 16. VALLEY FLASHING FOR CONCRETE TILE ROOFS SHALL BE AS REQUIRED

ROOFING MATERIALS

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

THERMAL & MOISTURE PROTECTION (continued)

- ROOF COVERING MATERIALS SHALL BE DELIVERED IN PACKAGES BEARING THE MANUFACTURER'S IDENTIFYING MARKS AND APPROVED TESTING AGENCY LABELS WHEN REQUIRED. BULK SHIPMENTS OF MATERIALS SHALL BE ACCOMPANIED BY THE SAME INFORMATION ISSUED IN THE FORM OF A CERTIFICATE OR ON A BILL OF LADING BY THE MANUFACTURER
- COMPOSITION ROOFING SHINGLES SHALL BE OF ASPHALT OR APPROVED RELATED MATERIALS AND MEET THE REQUIREMED OF THE N.C.-R
- UNDERLAYMENT FOR ASPHALT SHINGLES SHALL CONFORM TO ASTM D 226 TYPE I, ASTM D 4604, TYPE I, OR ASTM D 6757. SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET SHALL COMPLY WITH ASTM D 1970
- ASPHALT SHINGLES SHALL COMPLY WITH ASTM D 225 OR ASTM D 3462.
- FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED STEEL, STAINLESS SITEL, ALUMINUM, OR COPPER ROOFING NAILS, MINIMUM (2 GAGE SHANK WITH A MINIMUM 3/6) INCH DIAMETER HEAD, ASTM F 1667, OF A LENSTH TO PENETRATE THROUGH THE ROOFING MATERIALS AND A MINIMUM OF 3/4 INCH INTO THE ROOF SHEATHING. PHERE THE ROOF SHEATHING. PHERE THE ROOF SHEATHING. PHERE THE ROOF SHEATHING. PROTECTION OF SHALL PENETRATE THROUGH THE SHEATHING. FASTENERS SHALL COMPLY WITH ASTM F 1667.
- ASPHALT SHINGLES SHALL HAVE THE MINIMUM NUMBER OF FASTENERS REQUIRED BY THE MANUFACTURER. FOR NORMAL APPLICATION, ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF INTH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE PER N.C.-R.
- UNDERLAYMENT FOR ASPHALT SHINGLES SHALL BE APPLIED IN ACCORDANCE WITH THE N.C.-R
- THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF N.C.-R CLAY ROOF TILE SHALL COMLY WITH ASTM C 1167.
- SLOPES OF 2 1/2 UNITS VERTICAL IN I2 UNITS HORIZONTAL (2-1/2:12)
 OR GREATER. FOR ROOF SLOPES FROM 2 1/2 UNITS VERTICAL
 IN 12 UNITS HORIZONTAL (2-1/2:12) TO FOUR UNITS VERTICAL
 IN 12 UNITS HORIZONTAL (4-1/2), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH THE N.C.-R.
- UNDERLAYMENT FOR CLAY AND CONCRETE TILE SHALL CONFORM WITH ASTM D 226, TYPE II; ASTM D 2626 TYPE I; OR ASTM D 6380 CLASS M MINERAL SURFACED ROLL ROOFING.
- 15. CONCRETE ROOF TILE SHALL COMPLY WITH ASTM C 1492.
- NAILS SHALL BE CORROSION-RESISTANT AND NOT LESS THAN II GAGE, NAILS SHALL BE CONNOSION-KESISTANT AND NOT LESS THAN IT GASE, SIG-INCH HEAD, AND OF SUFFICIENT LENGTH TO FENETRATE THE DECK A MINIMUM OF SIGH-INCH OR THROUGH THE THICKNESS OF THE DECK, WHICHEVER IS LESS. ATTACHING WIRE FOR CLAY OR CONCRETE TILE SHALL NOT BE SMALLER THAN O 083-INCH. PERIMETER FASTENING AREAS INCLIDE THREE TILE COURSES BUT NOT LESS THAN 36 INCHES FROM EITHER SIDE OF HIPS OR RIDGES AND EDGES OF EAVES AND GABLE RAKES.
- CLAY AND CONCRETE ROOF TILES SHALL BE FASTENED IN ACCORDANCE WITH THE N.C.-R
- TILE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, BASED ON CLIMATIC CONDITIONS, ROOF SLOPE, UNDERLAYMENT SYSTEM, AND TYPE OF TILE BEINS INSTALLED PER THE N.C.-R.
- THE INSTALLTION OF BUILT-UP ROOFS SHALL COMPLY WITH THE N.C.-R
- 20. BUILT-UP ROOFS SHALL HAVE A DESIGN SLOPE OF A MINIMUM OF ONE-FOUTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE)
 FOR DRAINAGE, EXCEPT FOR COAL-TAR BUILT-UP ROOFS THAT SHALL
 HAVE A DESIGN SLOPE OF A MINIMUM ONE-EIGHTH UNIT VERTICAL IN
 12 UNITS HORIZONTAL (1-PERCENT SLOPE).
- 21. BUILT-UP ROOF COVERING MATERIALS SHALL COMPLY WITH THE STANDARDS PER THE N.C.-R

- SEE FINISHES IN THESE GENERAL NOTES FOR EXTERIOR PLASTER
- MATERIALS USED FOR THE CONSTRUCTION OF EXTERIOR WALLS SHALL COMPLY WITH THE PROVISIONS OF THE N.C.-R
- EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLIDE FLASHING. THE EXTERIOR WALL ENVELOPE SHA BIC DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMILATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENEER AS REQUIRED AND A MEANS OF DRAINING WATER THAT ENTERS THE ASSEMBLY TO THE EXTERIOR. PROTECTION ASAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED.
- ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTM D 226 FOR TYPE I FELT OR OTHER APPROVED WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS, SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, MITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2 INCHES, MHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES, THE FELT OR OTHER APPROVED MATERIAL SHALLS END TERMINATED AT PENETRATIOS AND BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE.
- FIBER CEMENT SIDING CONFORMING TO THE REQUIREMENTS OF THE N.C.-R. AND COMPLYING WITH ASTM D 3674 SHALL BE FERMITTED ON EXTERIOR WALLS OF BUILDINGS OF TYPE V CONSTRUCTION LOCATED IN AREA WHERE THE SUITMATE WIND SPEED SPECIFIED DOES NOT EXCEED 100 MILES PER HOUR AND THE BUILDING HEIGHT IS LESS THAN 40 FEET IN EXPOSURE C, INVERE CONSTRUCTION IS LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED EXCEEDS 190 MILES PER HOUR OR BUILDING HEIGHTS ARE IN EXCESS OF 40 FT, DATA INDICATING COMPLIANCE MUST BE SUBMITTED. FIBER CEMENT SIDING SHALL BE SECURED TO BUILDING HOT PROVIDE WEATHER PROTECTION FOR THE EXTERIOR WALLS OF THE BUILDING.
- THE N.C.-R FIBER CEMENT SIDING SHALL BE APPLIED TO CONFORM WITH THE WEATHER-RESISTIVE BARRIER REQUIREMENTS FIBER CEMENT SIDING AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED
- FIBER CEMENT SIDING FASTENERS AND ACCESSORIES SHALL MEET THE 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 A1956 AND, MHERE USED STRUCTURALLY, SHALL BE SO IDENTIFIED BY THE LABEL OF AN APPROVED AGENCY.
- WOOD VENEERS ON EXTERIOR WALLS OF BUILDINGS OF TYPES I, II, III, AND IV CONSTRUCTION SHALL BE NOT LESS THAN I-INCH NOMINAL THICKNESS, 0.438-INCH EXTERIOR HARDBOARD SIDING OR 0.375-INCH EXTERIOR-TYPE WOOD STRUCTURAL PANELS OR PARTICLE-BOARD AND SHALL CONFORM TO THE REQUIREMENTS OF THE N.C.-R
- FIBER-CEMENT LAP SIDING HAVING A MAXIMUM WIDTH OF 12 INCHES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM CIID6, TYPE A, MINIMUM GRADE III. LAP SIDING SHALL BE LAPPED A MINIMUM OF III/4 INCHES (32 MM) AND LAP SIDING NOT HAVING TONGUE-AND-EROOVE 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 WITH INC-R. LAP SIDING COURSES MAY BE INSTALLED WITH THE FASTENER HEADS EXPOSED OR CONCEALED, ACCORDING TO NC-R OR APPROVED MANUFACTURERS' INSTALLATION INSTRUCTIONS.

INSULATION

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

 I. BLOCKING AND SEALING FLOOR/CEILING SYSTEMS AND INDER KIME MAILS OF SOLID MATERIAL CONSISTENT WITH APPENDIX E-23 AND E-24 OF THE IX-R. KNEE WALLS OPEN TO UNCONDITIONED OR EXTERIOR SPACE. 2. CAPPING AND SEALING SHAFTS OR CHASES, INCLUDING FLUE 31. CAPPING AND SEALING SOFFIT OR DROPPED CEILING AREAS
- FRAMED CAVITY WALLS, THE EXTERIOR THERMAL ENVELOPE WALL INSULATION SHALL BE INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT MITH THE BUILDING ENVELOPE AIR BARRIER, INSULATION SHALL BE SUBSTANTIALLY FREE FROM INSTALLATION GAPS, VOIDS, OR COMPRESSION, FOR FRAMED WALLS, THE CAVITY INSULATION SHALL BE ENCLOSED ON ALL SIDES WITH A RIGID MATERIAL OR AN AIR BARRIER MATERIAL, WALL INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN NSTALLED ON EXTERIOR WALLS PRIOR TO BEING COVERED BY SUBSEC CONSTRUCTION, CONSISTENT WITH APPENDIX E-2.3 AND E-2.4 OF NC-R:
- I. TUBS
 2. SHOWERS
 3. STAIRS
 4. FIREPLACE UNITS
 ENCLOSURE OF WALL CAVITY INSULATION ALSO APPLIES TO WALLS THAT
 ADJOIN ATTIC SPACES BY PLACING A RIGID MATERIAL OR AIR BARRIER
 MATERIAL ON THE ATTIC SIDE.

DOORS & WINDOWS

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

DOORS & WINDOWS (continued)

- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FEET IN THE CASE OF ROUND FLOOR LEVEL WINDOW AND NOT LESS THAN 5.7 SQUARE FEET IN THE CASE OF AN UPPER STORY WINDOW.
- L EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM T CLEAR OPENING HEIGHT OF 24 INCHES.
- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING WIDTH OF 20 INCHES.
- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM MITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE.
- THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE FEET, MITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES. THE AREA OF THE MINDOW WELL SHALL ALLOW ENERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED PER THE N.C.-R. THE LADDER OR STEPS REQUIRED SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6" INTO THE REQUIRED DIMENSIONS OF THE MINDOW WELL.
- MINDOW WELLS MITH A VERTICAL DEPTH GREATER THAN 44 INCHES SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER OR STEPS USABLE WITH THE MINDOW IN THE FULLY OPEN POSITION.
- BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BE PLACED OVER EMERGENCY ESCAPE AND RESCUE OPENINGS, BULKHEAD ENCLOSURES, OR NINDOM WELLS THAT SERVE SUCH OPENINGS, PROVIDED THE MINIMAN NET CLEAR OPENING SIZE COMPLIES WITH THE NC.-R AND SUCH DEVICES SHALL BE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR FORCE GREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENING
- ALL INTERIOR EGRESS DOORS AND A MINIMUM OF ONE EXTERIOR EGRESS DOOR SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH ESPE 19 TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

GLAZING & SAFETY GLAZING

- HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS, NATURAL VENTILATION SHALL BE THROUGH WINDOWS, SKYLIGHTS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE OPENABLE AREA TO THE OUTDOORS SHALL BE NOT LESS THAN 4 PERCENT OF THE FLOOR AREA BEING VENTILATED
- BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR MINDONS OF NOT LESS THAN 3 SQUARE FEET, ONE-HALF OF WHICH MUST BE OPENABLE.
- EXCEPT AS INDICATED, EACH PANE OF GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BE PROVIDED WITH MANUFACTURER'S DESIGNATION SPECIFYING MHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS AND THE SAFETY GLAZING STANDARD MITH MHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION SHALL BE ACID ETCHED, SANDBLASTED, CERAMIC-FIRED, LASER ETCHED, EMBOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT BEING DESTROYED.
- INDIVIDUAL GLAZED AREAS, INCLUDING GLASS MIRRORS IN HAZARDOUS LOCATIONS SHALL PASS THE TEST REQUIREMENTS OF CPSC 16 CFR, PART 1201. GLAZING SHALL COMPLY WITH CPSC 16.
- THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING:
- GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING,
- SUDING AND BIFOLD DOORS
 SLIDING AND BIFOLD DOORS
 SLAING IN AN INDIVIDUAL PIXED OR OPERABLE PANEL IN THE SAME
 PLANE AS A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN
 24-INCHES OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM
 EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR NALKING
- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:
- 3.1 EXPOSED AREA OF AN INDIVIDUAL PANE LARGER THAN 9 SQUARE
- 3.2 BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR.
- ONE OR MORE WALKING SURFACES WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING.
- GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOYE A MALKING SURFACE.
- GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS AND SHOWERS, GLAZING ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.
- GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR SWIMMING POOLS, HOT TUBS AND SPAS WHERE THE BOTTOM EDGE O THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE AND WITHIN 60 INCHES HORIZONTALLY OF THE WATER'S EDGE. THIS LL 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 160 DEGREES FROM THE BOTTOM TREAD NOSING.
- HINGED SHOWER DOORS SHALL OPEN OUTWARD.
- GLAZING SHALL BE IN ACCORDANCE WITH ENERGY COMPLIANCE CALCULATIONS BASED ON A LOCALLY ADOPTED ENERGY CODE THE MODEL ENERGY CODE OR THE INTERNATIONAL ENERGY CONSERVATION CODE.
- LOCATED MORE THAN 12 INCHES (1629 MM) ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES (610 MM) ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED, OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENING PASSAGE OF A 4 INCH (IO2 MM) DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES (610 MM) OF THE FINISHED FLOOR

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

FINISHES

- GYPSUM WALLBOARD SHALL BE INSTALLED IN CONFORMANCE WITH THE CURRENT EDITION OF THE NORTH CAROLINA RESIDENTIAL CODE AND ALL STATE AND LOCAL BUILDING CODES. THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- MATERIALS, ALL GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO ASTM C 22, C 475, C 514, C 1002, C 1041, C ITT, C 1176, C 1276 C 1946, OR C 1659 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE NC.-R. ADMESIVES FOR THE INSTALLATION OF GYPSUM BOARD SHALL CONFORM TO ASTM C 551.
- 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 FRAMING MEMBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERPENDICULAR TO THE FRAMING MEMBERS. EDGES AND ENDS OF GYPSUM BOARD SHALL BRAING MEMBERS. EDGES AND ENDS OF GYPSUM BOARD SHALL BRAING STACE-RATED CONSTRUCTION, SHEAR RESISTANCE, OR PIRA-RESISTACE-RATED CONSTRUCTION, CEALED SPACES WHERE RIFE-RESISTACE-RATED CONSTRUCTION.
- EASTENERS AT THE TOP AND BOTTOM PLATES OF VERTICAL ASSEMBLIES FASIENCES AT THE TOP AND BOTTOM FLATED OF VERTICAL ASSEMBLIES, OR THE EDGES AND ENDS OF HORIZONTAL ASSEMBLIES PERPENDICULAR TO SUPPORTS, AND AT THE MALL LINE MAY BE OMITTED EXCEPT ON SHEAR-RESISTING ELEMENTS OR FIRE- RESISTIVE ASSEMBLIES. FASTENERS SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE PAPER WITH THE FASTENER HEAD.
- GYPSUM BOARD USED AS THE BASE OR BACKER FOR ADHESIVE APPLICATION OF CERAMIC TILE OR OTHER REQUIRED NON-ABSORBENT FINISH MATERIAL SHALL CONFORM TO ASTM C 1946, C 1175 OR C1275. USE OF WATER-RESISTANT GYPSUM BACKING BOARD SHALL BE PERMITTED ON CEILINGS WHERE FRAMING SPACING DOES NOT EXCEED 12 INCHES ON CENTER FOR 1/2-INCH-THICK OR 16 INCHES FOR 5/8-INCH-THICK GYPSUM BOARD. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT, GUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTURER.
- MATER RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMDITY.
- WHEN APPLYING A WATER-BASED TEXTURE MATERIAL. THE MINIMUM SYPSIM BOARD THICKNESS SHALL BE INCREASED FROM 3/6 INCH TO 1/2 INCH FOR 16-INCH ON CENTER FRAMING, AND FROM 1/2 INCH TO 5/6 INCH FOR 24-INCH ON CENTER FRAMING OR 1/2 INCH SAG-RESISTANT GYPSIM CEILING BOARD SHALL BE USED.

- ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIAL.
- BACKING OR A LATH SHALL PROVIDE SUFFICIENT RIGIDITY TO PERMIT PLASTER APPLICATION.
- WHERE LATH ON VERTICAL SURFACES EXTENDS BETWEEN RAFTERS OR OTHER SIMILAR PROJECTING MEMBERS, SOLID BACKING SHALL BE INSTALLED TO PROVIDE SUPPORT FOR LATH AND ATTACHMENTS. GYPSUM LATH OR GYPSUM BOARD SHALL NOT BE USED, EXCEPT THAT ON HORIZONTAL SUPPORTS OF CEILINGS OR ROOF SOFFITS IT MAY BE USED AS BACKING FOR METAL LATH OR WIRE FABRIC LATH AND CEMENT PLASTER.
- UNLESS SPECIFIED OTHERWISE, ALL WALL COVERINGS SHALL BE SECURELY UNLESS SPECIFIED OF HERWISE, ALL WALL COVENINGS SHALL BE SECURELY FASTENED PER THE N.C.-R. OR NITH OTHER APPROVED ALIMINM, STAINLESS STEEL, ZINC-COATED OR OTHER APPROVED CORROSION-RESISTIVE FASTENERS, WHERE THE BASIC MIND SPEED IS 110 MILES PER HOUR OR HIGHER, THE ATTACHMENT OF WALL COVERINGS SHALL BE DESIGNED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED AND ADJUSTED FOR HEIGHT AND EXPOSURE.
 - A MINIMUM O.OI9-INCH (NO. 26 GALVANIZED SHEET GAGE), A MINIVUM O.OI4-INCH (NO. 26 ALL/VANIZED SHEET 6.AGE),
 CORROSION-RESISTANT WEEP SCREED OR PLASTIC WEEP SCREED, WITH A
 MINIMUM VERTICAL ATTACHMENT FLANGE OF 31/2 INCHES SHALL BE
 PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD
 WALLS IN ACCORDANCE WITH ASTM C 926. THE WEEP SCREED SHALL BE
 PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE
 PAVED AREAS AND SHALL BE OF A TYPE THAT NILL ALLOW TRAPPED
 WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE
 WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE
 EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE
 OF THE WEEP SCREED.

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

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

THE PROPORTION OF AGGREGATE TO FIBER CEMENT MATERIALS SHALL BE

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





NORTH CAROLINA 40' SERIES

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MECHANICAL & PLUMBING

H.V.A.C.

- I. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH THE NORTH CAROLINA RESIDENTIAL AND MECHANICAL CODE. INSTALLATIONS OF MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS NOT ADDRESSED BY THIS CODE SHALL COMPLY MITH THE APPLICABLE PROVISIONS OF THE NORTH CAROLINA RESIDENTIAL AND FUEL 6AS CODE.
- CONTRACTOR SHALL DESIGN ENTIRE H.V.A.C. SYSTEM AND SUBMIT DRAWINGS FOR OWNER/BUILDER'S APPROVAL PRIOR TO ORDERING 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.
- 4. WHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURE SET POINTS AT DIFFERENT TIMES OF THE DAY, THIS THERMOSTAT SHALL INCLUDE THE CAPABILITY TO SET BACK OR TEMPORABILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55 DEG. F (19 C) OR UP TO 85 DEG. F (29 C).
- 5. ALL DUCTNORK SHALL CONFORM TO THE REQUIREMENTS OF THE N.C.-R
- COMBUSTION AIR SHALL BE PROVIDED FOR FORCED AIR UNITS IN ACCORDANCE WITH N.C.-R
- CONTRACTOR TO PROVIDE BOOT IN DUCTWORK WHEN OPTIONAL "HONEYWELL" OR "CARRIER" ELECTRONIC AIR CLEANER IS PROVIDED.
- DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DIRELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GASE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GAPAGE PER N. 4.
- EXTERIOR-GRADE INSTALLATIONS. EQUIPMENT AND APPLIANCES INSTALLED ABOVE GRADE LEVEL SHALL BE SUPPORTED ON A SOLID BASE OR APPROVED MATERIAL A MINIMUM OF 2 INCHES THICK.
- IO. UNDER-FLOOR INSTALLATION, SUSPENDED EQUIPMENT SHALL BE A MINIMUM OF 6 INCHES ABOVE THE ADJOINING GRADE.
- II. CRANL SPACE SUPPORTS. IN A CRAYL SPACE, A MINIMUM OF 2-INCH THICK SOLID BASE, 2-INCH (5) MM) THICK FORWED CONCRETE, OR STACKED MASONRY UNITS HELD IN PLACE BY MORTAR OR OTHER APPROVED METHOD. THE WATER HEATER SHALL BE SUPPORTED NOT LESS THAN 2 INCHES ABOVE GRADE.
- 12. DRAINAGE. BELOW-GRADE INSTALLATIONS SHALL BE PROVIDED WITH A NATURAL DRAIN OR AN AUTOMATIC LIFT OR SUMP PUMP. FOR PIT REQUIREMENTS REFER TO NC.-M

VENTING

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

PLUMBING

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

MECHANICAL \$ PLUMBING (continued)

PLUMBING (continued)

- 9. ALL DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERLIZATION, DISTIL-LATION, PROCESSING, COOLING, OR STORAGE OF ICE OR FOODS, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM, WATER PUMPS, FILTERS, SOFTEMERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION.
- 4. 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 LIEFT SIDE OF THE FITTINGS.
- DIVERTERS FOR SINK FAUCETS WITH A SECONDARY OUTLET CONSISTING OF A FLEXIBLE HOSE AND SPREY ASSEMBLY SHALL CONFORM TO ASTM AII.2.19. IN ADDITION TO THE REGUIREMENTS IN N.C.-P
- 7. THE INSTALLATION OF A WATER SERVICE OR WATER DISTRIBUTION PIPE SHALL BE PROHIBITED IN SOIL AND GROUND WATER THAT IS CONTAMINATED. GROUND WATER CONDITIONS SHALL BE REQUIRED TO ACERTAIN THE ACCEPTABILITY OF THE MATER SERVICE OR WATER DISTRIBUTION PIPING MATERIAL FOR THE SPECIFIC INSTALLATION, WHERE DETRIMENTAL CONDITIONS EXIST, APPROVED ALTERNATIVE MATERIALS OR ROUTING SHALL BE REQUIRED.
- 8. MATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C.-PLUMBING. ALL MATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 100 PSI AT 180 DEGREES F.
- 9. PIPE PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT 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.
- IO. PIPES PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM
- II. PIPING SHALL BE INSTALLED SO AS TO PREVENT DETRIMENTAL STRAINS AND STRESSES IN THE PIPE. PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT. PIPING SHALL BE INSTALLED TO AVOID STRUCTURAL STRESSES OR STRAINS MITHIN BUILDING COMPONENTS.
- 12. MATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. IN OTHER CASES, WATER, SOIL AND WASTE PIPES SHALL NOT BE INSTALLED OUTSIDE OF A BUILDING, IN INCONDITIONED ATTICS, UNCONDITIONED UTILITY ROOMS OR IN ANY OTHER PLACE SUBJECTED TO FREEZING TEMPERATURES INLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPES FROM FREEZING BY A MINIMUM OF R-65 INSULATION DETERMINED AT 15 DEG. F IN ACCORDANCE WITH ASTM CITT OR HEAT OR BOTH.

 EXTERIOR WATER SUPPLY SYSTEM PIPING SHALL BE INSTALLED NOT LESS THAN 6 INCHES BELOM THE FROST LINE AND NOT LESS
 THAN 12 INCHES BELOM GRADE.
- 3. BUILDING SEMER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C-R.
- 14. BUILDING SEWER 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 N.C.-P.
- 15. WHERE WASTE LINE DROPS OCCUR IN A LOCATION WHERE THE SOUND OF A FLUSHED TOILET MAY BE UNDESIRABLE, SUCH AS IN WALLS OR PARTITIONS ADJACENT TO EATING ROOMS, USE CAST IRON PIPING OR SIMILAR APPROVED HARD OR DENSE PIPING TO MITIGATE SOUND.
- 16. 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.
- IB. INDIVIDUAL SHOWER AND TUB/SHOWER COMBINATION VALVES SHALL BE EQUIPPED WITH CONTROL VALVES OF THE PRESSURE-BALANCE, THERWOSTATIC-MIXING OR COMBINATION PRESSURE-BALANCE/
 THERWOSTATIC-MIXING VALVE TYPES WITH A HIGH LIMIT STOP IN ACCORDANCE WITH ASSE (IGH, ASME AIZLIGH)CASS BIZSIA. AND SHALL BE INSTALLED AND ADJUSTED PER MANUFACTURE'S INSTRUCTIONS.
- IS. GAS AND ELECTRIC MATER HEATERS HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 16 INCHES ABOVE THE GARAGE FLOOR. REFER TO N.C.-IR FOR EXCEPTION.
- 20. WATER HEATERS, (USING SOLID, LIQUID OR GAS FUEL) WITH THE EXCEPTION OF THOSE HAVING DIRECT VENT SYSTEMS, SHALL NOT BE INSTALLED IN BATHROOMS AND BEDROOMS OR IN A CLOSET WITH ACCESS ONLY THROUGH A BEDROOM OR BATHROOM, HONEVER, WATER HEATERS OF THE AUTOMATIC STORAGE TYPE MAY BE INSTALLED AS REPLACEMENT IN A BATHROOM, WHEN APPROVED BY THE PUMPING OFFICIAL, PROVIDED THEY ARE VENTED AND SUPPLIED WITH ADEQUATE COMBUSTION AIR.
- I. IN SEISMIC DESIGN CATEGORIES DO, DI AND D2 AND TOWNHOUSES IN SEISMIC DESIGN CATEGORY C, WATER HEATERS SHALL BE ANCHORED OR STRAPPED IN THE UPPER ONE-THIRD AND IN THE LOWER 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.
- APPLIANCES LOCATED IN A GARAGE OR CARPORT SHALL BE PRO-TECTED FROM IMPACT BY A MOVING VEHICLE.
- 23. WHERE WATER HEATERS OR HOT WATER STORAGE TANKS ARE INSTALLED IN REMOTE LOCATIONS SUCH AS SUSPENDED CEILING, ATTICS, ABOVE OCCUPIED SPACES, OR INVENTILATED CRAPIL 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 STELL PAN HAVING A MINIMUM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE.
- 24. WHERE CLOTHES MASHING MACHINES ARE LOCATED ON MOOD FRAMED FLOORS WHERE LEAKAGE WOULD CAUSE DAMAGE, A GALVANIZED STEEL PAN HAVING A MINIMUM THICKNESS OF 24 GASE, OR OTHER PANS APPROVED FOR SUCH USE SHALL BE PROVIDED.

MECHANICAL & PLUMBING (continued)

LUMBING (continued)

- 25. APPLIANCES AND EQUIPMENT USED FOR HEATING WATER OR STORING HOT WATER SHALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND A SEPARATE TEMPERATURE-RELIEF VALVE OR A COMBINATION PRESSURE-AND-TEMPERATURE RELIEF VALVE. RELIEF VALVES SHALL HAVE A MINIMUM RATED CAPACITY FOR THE EQUIPMENT SERVED AND SHALL CONFORM TO AND ZIZLZZ. THE RELIEF VALVE SHALL NOT BE USED AS A MEANS OF CONTROLLING THERMAL EXPANSION.
- 26. THE WATER SUPPLY TO A DISHWASHER SHALL BE PROTECTED AGAINST BACKFLON BY AN AIR GAP COMPLYING NITH ASME AII2.13 OR AII2.12 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 III.2 INCHES (36 MM) IN OUTSIDE DIAMETER. THE DISHWASHER DISCHARGE PIPE OR TUBING SHALL RISE TO THE UNDERSIDE OF THE COUNTER AND SHALL BE SECURELY FASTENED TO THE UNDERSIDE OF THE COUNTER AND SHALL BE SECURELY FASTENED TO THE UNDERSIDE OF THE SINK RIM OR COUNTER BEFORE CONNECTING TO THE HEAD OF THE FOOD-WASTE DISPOSER OR TO A WYE FITTING IN THE SINK TAILPIECE.

FIREPLACE

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

ELECTRICAL

- I. ALL MATERIALS AND APPLIANCES, INSTALLATION AND CONSTRUCTION METHODS SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE OR CURRENT SAE REQUIREMENTS.
- ALL ELECTRICAL SYSTEMS, CIRCUITS, FIXTURES AND EQUIPMENT SHALL BE GROUNDED IN A MANNER COMPLYING WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL WIRING SHALL BE SO INSTALLED THAT, WHEN COMPLETED, THE SYSTEM WILL BE FREE FROM SHORT CIRCUITS AND FROM GROUNDS OTHER THAN AS REQUIRED OR PERMITTED IN NEC. 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-INTERMIPTER PROTECTION FOR PERSONNEL. THE GROUND-FAULT CIRCUIT-INTERMIPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- A. BATHROOMS.
- B. GARAGES AND ALSO ACCESSORY BUILDINGS THAT HAVE A FLOOR LOCATED AT OR BELON GRADE LEVEL NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS, AND AREAS OF SIMILAR USE.
- c. OUTDOORS
- CRAWL SPACES. WHERE THE CRAWL SPACE IS AT OR BELOW GRADE LEVEL.
- E. UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS.
- F. KITCHENS. WHERE THE RECEPTACLES ARE INSTALLED TO SERVE THE COUNTERTOP SURFACES.
- 6. SINKS, WHERE RECEPTACLES ARE INSTALLED WITHIN 6 FT FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK.
- H. BOAT HOUSES.
- BATHTUBS OR SHOWER STALLS WHERE RECEPTACLES ARE INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL.
- J. LAUNDRY AREAS
- DISHWASHER GFCI PROTECTION IS NOT REQUIRED FOR OUTLETS THAT SUPPLY DISHWASHERS INSTALLED IN DWELLING UNIT LOCATIONS
- CRAWL SPACE LIGHTING OUTLETS, GFCI PROTECTION SHALL BE PROVIDED FOR LIGHTING OUTLETS NOT EXCEEDING 120 VOLTS INSTALLED IN CRAWL SPACES.
- APPLIANCE RECEPTACLE OUTLETS INSTALLED IN A DWELLING UNIT FOR SPECIFIC APPLIANCES, SUCH AS LANDRY EQUIPMENT, SHALL BE INSTALLED WITHIN 6 FEET OF THE INTENDED LOCATION OF THE APPLIANCE.
- IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN, SURROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DWELLING WITTS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY MALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLIDING ANY WALL SPACE OF MORE IN WIDTH (INCLIDING SPACE) MEASURED AROUND CORNIERS) AND INBROKEN ALONG THE FLOOR LINE BY DOORNAYS AND SIMILAR OPENINGS, FIREPLACES, AND FIXED CABINETS, AND THE WALL SPACE OCCUPIED BY FIXED PANELS IN EXTERIOR WALLS, BUT EXCLIDING SALIDING PANELS IN EXTERIOR WALLS, THE WALL SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING BAR-TYPE COUNTERS OR RAILINGS, SHALL BE INCLIDED IN THE 6 FOOT MEASUREMENT.
- 9. IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA OF A DWELLING UNIT, THE TWO OR MORE 20-AMPERE SMALL-APPLIANCE BRANCH CIRCUITS REQUIRED SHALL SERVE ALL WALL AND FLOOR RECEPTACLE OUTLETS, ALL CONTERTOP OUTLETS, AND RECEPTACLE OUTLETS FOR REPRIGERATION EQUIPMENT. THE TWO OR MORE SMALL-APPLIANCE BRANCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- IO. IN KITCHENS, PANTRIES, BREAKFAST ROOMS, DINING ROOMS AND SIMILAR AREAS OF DWELLING UNITS, RECEPTACLE OUTLETS FOR COUNTER SPACES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:
- (I) A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTER SPACE IZ INCHES OR WIDER. RECEPTACLE OUTLETS SHALL BE INSTALLED 30 THAT NO POINT ALONS THE WALL LINE IS MORE THAN 24 INCHES MEASURED HORIZONTALLY FROM A REC

ELECTRICAL (continued)

- (2) AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH ISLAND COUNTER SPACE NITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER.
- (9) AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH PENINSULAR COUNTER SPACE WITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR SKEATER. A PENINSULAR COUNTERTOP IS MEASURED FROM CONNECTING PERPENDICULAR WALL.
- (4) COUNTERTOP SPACES SEPARATED BY RAINE TOPS, REFRIGERATORS, OR SINKS SHALL BE CONSIDERED AS SEPARATE COUNTERTOP SPACES IN APPLITING THE REQUIREMENTS OF (I), (2), AND (3)
 ABOVE. IF A RAINE, COUNTER-MOUNTED COOKING UNIT, OR SINK
 IS INSTALLED IN AN ISLAND OR PENINSULAR COUNTERTOP AND THE
 DEPTH OF THE COUNTER BEHIND THE ITEM IS LESS THEN IZ INCHES,
 IT MILL BE CONSIDERED TO DIVIDE THE COUNTERTOP SPACE INTO
 TWO SEPARATE COUNTERTOR SPACES. EACH COUNTERTOP SPACE
 SHALL COMPLY WITH APPLICABLE REQUIREMENTS.
- (5) RECEPTACLE OUTLETS SHALL BE LOCATED NOT MORE THAN 20 INCHES ABOVE THE COUNTERTOP, RECEPTACLE OUTLETS RENDERED NOT READILLY ACCESSIBLE BY APPLIANCE FASTENED IN PLACE, APPLIANCE GARAGES, SINKS, OR RANGETOPS AS COVERED IN 4) ABOVE, OR APPLIANCES OCCUPYING DEDICATED SPACE SHALL NOT BE CONSIDERED AS THESE REQUIRED OUTLETS.
- II. AT LEAST ONE WALL RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS MITHIN 3 FEET OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED IN WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR BASIN COUNTERTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET NOT MORE THAN 12" BEIOW THE COUNTERTOP.
- 12. IN DIVELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN AREAS DESIGNATED FOR THE INSTALLATION OF LAUNDRY EQUIPMENT.
- 19. IN EACH ATTACHED GARAGE AND IN EACH DETACHED GARAGE MITH ELECTRIC POWER, THE BRANKE (IRRUIT SUPPLYING THIS RECEPTACLE(S) SHALL NOT SUPPLY OUTLETS OUTSIDE OF THE GARAGE. AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN EACH VEHICLE BAY.
- 14. CABLE- OR RACEMAY-TYPE WIRING METHODS INSTALLED IN A GROOVE, TO BE COVERED BY MALLEDARD, SIDING PANELING, CARPETING, OR, SIMILAR FINISH, SHALL BE PROTECTED BY 1/16 INCH THICK STEEL. PLATE, SLEEVE, OR EQUIVALENT OR BY NOT LESS THAN 1-1/4 INCH FREE SPACE FOR THE FILL LENGTH OF THE GROOVE IN WHICH THE CABLE OR RACEMAY IS IN THAT I STOP THE STAND THE STAND I STOP THE STAND I STAND I STAND I STAND I STOP THE STAND I ST
- 15. RECEPTACLES IN DAMP OR WET LOCATIONS.
 - A. A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED FROM MEATHER OR IN OTHER DAMP LOCATIONS SHALL HAVE AN ENCLOSURE FOR THE RECEPTACLE THAT IS WEATHERPROOF WHEN THE RECEPTACLE IS COVERED. (ATTACHMENT PLUS CAP NOT INSERTED AND RECEPTACLE COVERS (LOSED.)
 - B. ALL IS- AND 20- AMPERE, I.25- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS MEATHER PROOF INHETHER OR NOT THE ATTACHENT PLUE CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUTY". ALL IS- AND 20- AMPERE, I.25- AND 250-VOLT NONLOCKING RECEPTACLES SHALL BE LISTED MEATHER RESISTANT TYPE.
- I6. LIGHTING EQUIPMENT. NOT LESS THAN 15 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS
- 17. LIGHT FIXTURES WITHIN CLOTHES CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH N.E.C.
- 18. ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING VOITLETS OR DEVICES INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PRACIPS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLIMAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. THE ARC-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATOR.
- 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.
- 20. TAMPER-RESISTANT RECEPTACLES IN DWELLING UNITS IN ALL AREAS, ALL NON-LOCKING TYPE 125-VOLT IS-AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS LISTED BELOW:
 - 1. RECEPTACLES LOCATED MORE THAN 5½ ABOVE THE FLOOR.
 2. RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE.
 - 3. A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES LOCATED WITHIN DEDICATED SPACE FOR EACH APPLIANCE THAT, IN NORMAL USE, IS NOT EASILY MOVED FROM ONE PLACE TO ANOTHER, AND THAT IS CORD-AND-PLUS CONNECTED.
 - 4. NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS.
- DIMMER-CONTROLLED RECEPTACLES, A RECEPTACLE SUPPLYING LIGHTING LOADS SHALL NOT BE CONNECTED TO A DIMMER UNLESS THE PLUS/RECEPTACLE COMBINATION IS A NONSTANDARD CONFIGURATION TYPE THAT IS SPECIFICALLY LISTED AND IDENTIFIED FOR EACH SUCH UNIQUE COMBINATION.

SMOKE DETECTORS

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

HOUSEHOLD FIRE ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NFPA TO THAT INCLUDE SMOKE ALARMS, OR A COMBINATION OF SMOKE DETECTOR AND AUDIDE NOTIFICATION DEVICE INSTALLED AS REQUIRED BY THE NC-R RSI4.3 FOR SMOKE ALARMS, SHALL BE PERMITTED. THE HOUSEHOLD FIRE ALARM SYSTEM SHALL PROVIDE THE SAME LEVEL OF SMOKE DETECTION AND ALARM AS REQUIRED BY THE NC-R FOR SMOKE ALARMS IN THE EVENT THE FIRE ALARM PANEL IS REMOVED OR THE SYSTEM IS NOT CONECTED TO A CENTRAL STATION.

3. REQUIRED SMOKE DETECTORS SHALL BE LOCATED IN ACCORDANCE WITH THE NC-R R3143

ELECTRICAL (continued)

CARBON MONOXIDE ALARMS

- I. CARBON MONOXIDE ALARMS IN DMELLING UNITS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, 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 R3I5 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COMBINATION CARBON MONOXIDE AND SHOKE ALLARMS SHALL BE PERMITTED TO BE USED IN LIEU OF INDIVIDUAL CARBON MONOXIDE OR SHOKE ALLARMS.

DRYER VENT

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





NORTH CAROLINA 40' SERIES

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DIVISION REVISIONS
NCI90IINCP- 2/27/19 CTD

REVISIONS:

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DIVISION REVISIONS
NC19052NCP- 08/02/18 FAE

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NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE
CORP20003CORP-09/20/20-CTD

ADD DECES & SUNROOM
NC21019NCP-04/05/21-CTD

DIVISION REVISION
11 NC21057NCF - 10/25/21 - KBA
DIVISION REVISION
12 N621056NCF - 10/25/21 - KBA

PLAN: 237.2723-R SHEET: GN3

spec. level 1
RALEIGH-DURHAM
40' SERIES



NORTH CAROLINA 40' SERIES PLAN 237.2723-R

SHEET INDEX

PLAN #237.2723

10

PARTIAL FLOOR PLAN, ROOF, ELEVATIONS, CRANL SPACE PLAN 'A/B/C/D' AT 23×12' COVERED DECK PARTIAL FLOOR PLAN, ROOF, ELEVATIONS, CRANL SPACE PLAN 'A/B/C/D' AT 12×12' SCREENED DECK PARTIAL FLOOR PLAN, ROOF, ELEVATIONS, CRANL SPACE PLAN 'A/B/C/D' AT 12×12' SCREENED DECK PARTIAL FLOOR PLAN, ROOF, ELEVATIONS, CRANL SPACE PLAN 'A/B/C/D' AT 1/2 SCREEN-1/2 OPEN DECK

PARTIAL FLOOR PLAN, ROOF & ELEVATIONS 'A', B', 'C', & 'D' W OPT. COVERED PATIO PARTIAL FLOOR PLAN, ROOF & ELEVATIONS 'A', B', 'C', & 'D' W OPT. EXTENDED COVERED PATIO PARTIAL FLOOR PLAN, ROOF & ELEVATIONS 'A', B', 'C', & 'D' W OPT. COVERED SCREENED PATIO PARTIAL FLOOR PLAN, ROOF & ELEVATIONS 'A', B', 'C', & 'D' W OPT. EXTENDED SCREENED PATIO SCREENED COVERED PATIO PARTIAL FLOOR PLAN, ROOF & ELEVATIONS W/ OPT. SUNROOM
PARTIAL FLOOR PLAN, ROOF & ELEVATIONS & CRAYL SPACE PLAN 'A/B/C/D/'
W/ OPT. SUNROOM SLAB INTERFACE PLAN 'A'
PARTIAL SLAB INTERFACE PLAN 'B', 'C', & 'D'
CRAWL SPACE PLAN 'A'
PARTIAL CRAWL SPACE PLAN 'B', 'C', & 'D' ARCHITECTURAL DETAILS
ARCHITECTURAL DETAILS ROOF PLAN, FRONT & REAR ELEVATIONS 'A' LEFT & RIGHT ELEVATIONS A"
PARTIAL FIRST FLOOR PLAN, FRONT ELEVATION, PARTIAL LEFT ELEVATION 'A' AT CRAWL SPACE
FRONT ELEVATIONS 'A' AT OPTIONAL 9"-1" PLATE HEIGHT AT SLAB & CRAWL SPACE PARTIAL FIRST & SECOND FLOOR PLANS 'B' ROOF PLAN, FRONT & REAR ELEVATIONS 'B' LEFT & RIGHT ELEVATIONS 'B' PARTIAL FIRST FLOOR PLAN, FRONT ELEVATION, PARTIAL LEFT ELEVATION 'B' AT CRAWL SPACE FRONT ELEVATIONS B' AT OPTIONAL 9'-1" PLATE HEIGHT AT SLAB & CRAWL SPACE LEFT & RIGHT ELEVATIONS C. PARTIAL LEFT ELEVATION 'C' AT CRAWL SPACE FRONT ELEVATION 'C' AT OPTIONAL 9'-1" PLATE HEIGHT AT SLAB & CRAWL SPACE PARTIAL FIRST & SECOND FLOOR PLANS 'D'
ROOF PLAN, FRONT & REAR ELEVATIONS 'D'
LEFT & RIGHT ELEVATIONS 'D'
PARTIAL FIRST FLOOR PLAN, FRONT ELEVATION, PARTIAL LEFT ELEVATION 'D' AT CRAWL SPACE
FRONT ELEVATIONS 'D' AT OPTIONAL 9'-1" PLATE HEIGHT AT SLAB & CRAWL SPACE INTERIOR ELEVATIONS FIRST FLOOR UTILITY PLAN SECOND FLOOR UTILITY PLAN FIRST FLOOR UTILITY PLAN OPTIONS SECOND FLOOR UTILITY PLAN OPTIONS PARTIAL FLOOR PLAN, ELEVATIONS, CRAWL SPACE PLAN 'A/B/C/D' AT 12'x12' DECK PARTIAL FLOOR PLAN, ELEVATIONS, CRAWL SPACE PLAN 'A/B/C/D' AT 23'x12' DECK PARTIAL FLOOR PLAN, ROOF, ELEVATIONS, CRAWL SPACE PLAN 'A/B/C/D' AT 12'x12' COVERED DEC





NORTH CAROLINA 40' SERIES

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

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

ISSUE DATE: PROJECT No.: 1350999:56 DIVISION MGR.:

CODE ABBREVIATIONS

N.C.-R. NORTH CAROLINA RESIDENTIAL CODE
N.C.-B. NORTH CAROLINA BUILDING CODE

N.C.-M. NORTH CAROLINA MECHANICAL CODE

N.C.-E. NORTH CAROLINA ELECTRICAL

N.C.-E.C. NORTH CAROLINA ENERGY COT.
NE.C. NATIONAL ELECTRICAL CODE
I.G.B.O. INTERNATIONAL CONFERENCE
OF BUILDING OFFICIALS
A.S.T.M. AMERICAN SOCIETY FOR
TESTING MATERIALS
NF.P.A. NATIONAL FIRE PROTECTION
ASSOCIATION

A.N.S.I.

I.E.C.C.

N.C.-E.C. NORTH CAROLINA ENERGY CODE

NORTH CAROLINA PLUMBING CODE

INTERNATIONAL CODE COUNCIL

UNDERWRITERS LABORATORIES, INC.

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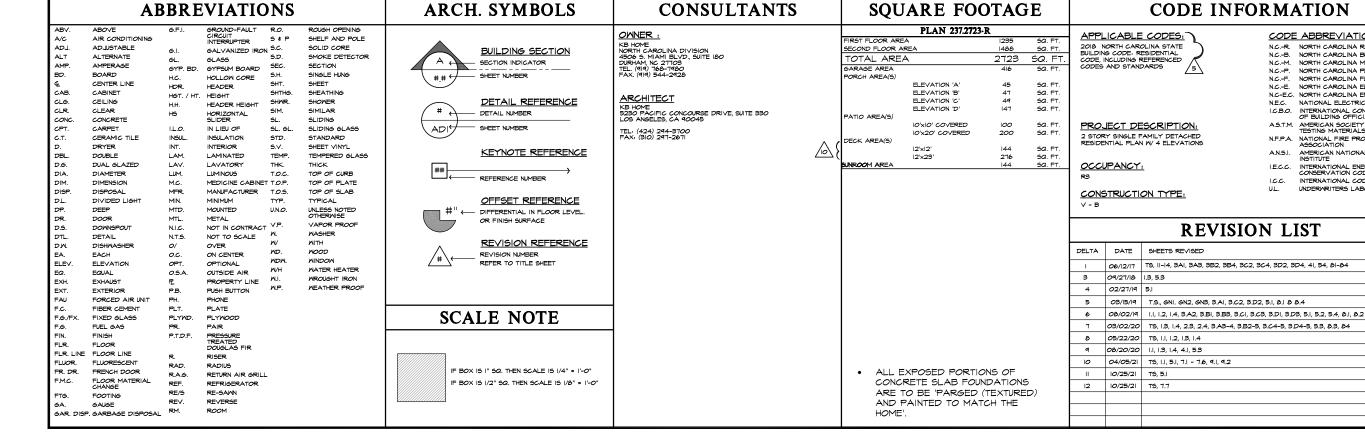
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DIVISION REVISIONS NC20017NCP- 03/02/20 KBA AMERICAN NATIONAL STANDARDS REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION NC21057NCP - 10/25/21 - KBA

PLAN: 237.2723-R SHEET:



GENERAL REQUIREMENTS

- THE WORD 'CONTRACTOR' AS USED HEREIN SHALL MEAN THE GENERAL CONTRACTOR, SUBCONTRACTORS AND ALL PERSONS DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM.
- CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODE REQUIREMENTS:
 - A. ALL LAWS, STATUTES, THE MOST RECENT BUILDING CODES, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES HAVING JURISDICTION OVER OWNER, CONTRACTOR, ANY SUBCONTRACTOR, THE PROJECT SHE, THE WORK,
- B. THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING TO SAFETY.
- THE FAIR HOUSING AMENDMENTS ACT, THE AMERICANS WITH DISA-BILITIES ACT, AND ALL OTHER APPLICABLE CODE REQUIREMENTS RELATING THERETO.
- CONTRACTOR SHALL CAREFULLY STUDY AND REVIEW THE CONSTRUCTION DOCUMENTS AND INFORMATION FURNISHED BY OWNER, AND SHALL FROMPTLY REPORT IN WRITING TO OWNERS REPRESENTATIVE ANY ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONSTRUCTION DOCU-MENTS OR INCONSISTENCIES WITH APPLICABLE CODE REQUIREMENTS OBSERVED BY THE CONTRACTOR.
- 4. IF CONTRACTOR PERFORMS MORK WHICH HE KNOWS OR SHOULD KNOW IS CONTRARY TO APPLICABLE CODE REQUIREMENTS, WITHOUT THE AGREEMENT OF OWNER, CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH WORK AND SHALL BEAR THE RESULTANT LOSSES, INCLUDING, MITHOUT LIMITATION, THE COSTS OF CORRECTING DEFECTIVE WORK.
- 5. CONTRACTOR SHALL PROVIDE CERTIFICATES OF INSURANCE ACCEPTABLE TO OWNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS, AND CAREFULLY COMPARE WITH THE CONSTRUCTION DOCUMENTS SUCH FIELD MEASUREMENTS, CONDITIONS, AND OTHER INFORMATION KNOWN TO CONTRACTOR BEFORE COMMENCING THE MORK, ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED AT ANY TIME SHALL BE PROMPTLY REPORTED IN MRITING 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.
- 4. SUB-CONTRACTORS SHALL INSURE THAT ALL WORK IS DONE IN A PROFESSIONAL WORKMANLIKE MANNER BY SKILLED MECHANICS AND SHALL REPLACE ANY MATERIALS OR ITEMS DAMAGED BY SUB-CONTRACTORS PERFORMANCE. SUB-CONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONPER AND SUPPLIERS HAVE MERCEBY NOTIFIED THAT THEY ARE TO CONPER AND SUPPLIERS FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHERS WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK. ALL SUB-CONTRACTOR WORKMANSHIP SHALL BE OF GUALITY TO PASS INSPECTIONS BY LOCAL AUTHORITIES, LENDING INSTITUTIONS, ARCHITECT OR BUILDER. ANY ONE OR ALL OF THE ABOVE MENTIONED INSPECTORS MAY INSPECT WORKMANSHIP AT ANY TIME, AND CORRECTIONS NEEDED TO ENHANCE THE GUALITY OF BUILDING WILL BE DONE IMPEDIATELY. EACH SUBCONTRACTOR, UNLESS SPECIFICALLY EXEMPTED BY THE TERMS OF HIS/HERS SUB-CONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LETT BY OTHER SUB-CONTRACT GOMPLETES EACH PHASE OF HIS WORK THAT TRASH AND DEBRIS WILL BE REMOVED FROM THE SITE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LETT BY OTHER SUB-CONTRACTOR. GUMPLETES EACH PHASE OF HIS WORK THAT TRASH AND DEBRIS WILL BE REMOVED FROM THE SITE WORK
- IO. APPROVAL BY THE BUILDING INSPECTOR DOES NOT MEAN APPROVAL OR ALLONABLE FAILURE TO COMPLY WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE ARCHITECT OR ENGINEER FOR INTERPRETATION OR CLARIFICATION.
- ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED UNDER THESE PLANS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY OWNER UNLESS STIPULATED OTHERWISE.
- 2. ALL TRADE NAMES AND BRAND NAMES CONTAINED HEREIN ESTABLISH QUALITY STANDARDS. SUBSTITUTIONS ARE PERMITTED, WITH PRIOR APPROVAL BY THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL SUBMIT FOR THE ARCHITECT'S AND BUILDER'S APPROVAL ALL MATERIALS OR EQUIPMENT WHICH IS CONSIDERED "OR EQUAL" TO THAT SPECIFIED.
- 3. CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ON ANY OR ALL SHEETS MAY BE SUBJECT TO REVIEW. THIS REVIEW MAY RESULT IN CHANGES WHICH MAY BE MADE TO THE PLANS PRIOR TO THE ISSUANCE OF THE FINAL CONSTRUCTION SET WHICH WILL CONTAIN NO "BID SET" DESIGNATIONS. CONSTRUCTION DOCUMENTS IDENTIFIED AS "BID SET" ARE NOT TO BE CONSTRUED AS BEING THE COMPLETED OR FINAL DRAWINGS AND THEY SHOULD NOT IN ANY WAY BE USED AS SUCH.
- ALL STANDARD NOTES CONTAINED HEREIN ARE TYPICAL UNLESS NOTED OTHERWISE.
- TYPICAL DETAILS AND SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.
- 6. 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.
- 18. 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

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

SITE WORK (continued)

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

CONCRETE

- REFER TO STRUCTURAL ENGINEERING CALCULATIONS AND SOILS REPORT FOR THE PERFORMANCE REQUIREMENTS FOR CONCRETE FOUNDATIONS.
- CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE COMPRESSIVE STRENGTH AS PRESCRIBED IN THE N.C.-R, AS MELL AS SATISFY THE DURABILITY CRITERIA OF THE N.C.-R
- 3. MIXING OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318, SECTION 5.8.
- 4. THE DEPOSITING OF CONCRETE SHALL COMPLY WITH THE PROVISIONS ACI 318, SECTION 5.10.
- THE CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318, SECTION 5.II.
- ALL FORM WORK SHALL BE DESIGNED, CONSTRUCTED, UTILIZED, AND REMOVED.
- CONDUIT, PIPES AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN THE LIMITATIONS OF ACI 318, SECTION 6.3, ARE PERMITTED TO BE EMBEDDED IN CONCRETE WITH APPROVAL OF THE REGISTERED DESIGN PROFESSIONAL.
- CONSTRUCTION JOINTS INCLUDING THEIR LOCATION SHALL COMPLY WITH THE PROVISIONS OF ACI 318, SECTION 6.4.
- ALL STEEL REINFORCING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE N.C.-R
- IO. TOP OF CONCRETE SLABS TO BE A MINIMUM 4" W MASONRY VENEER 6" ELSEWHERE (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, SLEVES, BOLTS OR OTHER BRIEDDED MATERIALS, AND ITEMS MIST BE SECURED AND APPROPRIATELY FASTENED IN THEIR PROPER LOCATIONS PRIOR TO THE PLACEMENT OF CONCRETE. SHE CONTRACTOR SHALL VERIEY INSTALLATION OF HOLD-DOWNS, ANCHOR BOLTS, PA STRAPS, AND OTHER ANCHORAGE MATERIAL AND ITEMS FRIOR TO PLACEMENT OF CONCRETE.
- POST-TENSION SLABS, IF APPLICABLE:
- POINT AND LINE LOADS FROM STRUCTURE ABOVE TO BE PROVIDED TO POST-TENSION ENGINEER PRIOR TO POST-TENSION DESIGN.
- B. ANCHOR BOLTS AND OTHER HARDWARE TO BE SHOWN ON POST-TENSION PLANS TO AVOID MIS-LOCATION OF HARDWARE AND POSSIBLE FIELD FIXES WHICH MAY CUT TENDONS.

MASONRY

- ALL MASONRY DESIGN SHALL FOLLOW THE REQUIREMENTS OF THE CURRENT ADOPTED CODES.
- ANCHORED MASONRY VENEER SHALL COMPLY WITH THE PROVISIONS OF N.C.-R, AND SECTIONS 6.1 AND 6.2 OF ACI 530/ASCE 57THS 402.
- STONE VENEER UNITS NOT EXCEEDING 5 INCHES IN THICKNESS SHALL BE ANCHORED DIRECTLY TO MASONRY, CONCRETE OR TO STUD CONSTRUCTION BY ONE OF THE APPROVED METHODS LISTED IN THE NC.-R
- 4. MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL COMPLY WITH ASTM C 270. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE WITH THE N.C.-R AND SHALL MEET THE PROPORTION SPECIFICATIONS OF THE PROPORTION CHECKED A TOOLS OF A SETUIC 270.
- GROUT SHALL CONSIST OF FIBER CEMENT MATERIAL AND AGGREGATE IN ACCORDANCE WITH ASTM C 476 AND THE PROPORTION SPECIFICATIONS FER THE N.C.-R
- AGGREGATES FOR MORTAR AND GROUT SHALL BE NATURAL SAND AND ROCK CONFORMING TO A.S.T.M. C-I44-04 (MASONRY MORTAR) AND C-404-07 (GROUT).
- 7. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO A.S.T.M. C 150.
- 8. ALL BRICK SHALL CONFORM TO A.S.T.M. C 216, GRADE MW.
- UNLESS SPECIFICALLY SHOWN OTHERWISE ALL BRICK SHALL BE LAID IN A RUNNING BOND PATTERN.
- IO. ANCHORS, TIES AND WIRE FABRIC SHALL CONFORM TO N.C.-R
- II. ANCHOR TIES AND WIRE FABRIC FOR USE IN MASONRY WALL CONSTRUCTION SHALL CONFORM TO THE N.C.-R

METALS

- REFER TO STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL, METAL AND REINFORCING STEEL SPECIFICATIONS.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO AISC/CRED
- ANCHOR RODS SHALL BE SET ACCURATELY TO THE PATTERN AND DIMENSIONS CALLED FOR ON THE PLANS. THE PROTRUSION OF THE THREADED ENDS THROUGH THE CONNECTED MATERIAL SHALL BE SUFFICIENT TO FLULY ENGAGE THE THREADS OF THE NITS, BUT SHALL NOT BE GREATER THAN THE LENGTH OF THE THREADS ON THE BOLTS
- 4. FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED MOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILCON BRONZE OR COPPER VERIETY ACCEPTABLE FASTENERS FER CHEMICALS USED IN PRESSURE PRESERVITIVELY TREATED MOOD MY N.C.-R. FASTENINGS FOR MOOD FOUNDATIONS SHALL BE AS REQUIRED IN AFAPA TECHNICAL REPORT NO. 7.

MOOD & FRAMING

LUMBER

- THE DESIGN AND CONSTRUCTION OF CONVENTIONAL LIGHT-FRAME MOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE N.C.-R
- CONSTRUCTION, PROJECTIONS, OPENINGS AND PENETRATIONS OF EXTERIOR WALLS OF DWILLINGS AND ACCESSORY BUILDINGS SHALL COMPLY WITH TABLE RSO2.1.
- ALL LUMBER SHALL MEET THE STANDARDS OF QUALITY AS STATED IN THE N.C.-R
- LUMBER AND PLYWOOD REQUIRED TO BE PRESSURE PRESERVATIVELY TREATED IN ACCORDANCE WITH THE N.C.-R AND SHALL BEAR THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING AND INSPECTION OVER THE QUALITY OF THE PRODUCT AND THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT 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 SUBLECT TO DECAY DAMAGE AS ESTABLISHED BY THE N.C.-R
 THE FOLLOWING LOCATIONS SHALL REQUIRE THE USE OF NATURALLY
 DURABLE MODD OR MODD THAT IS PRESERVATIVE TREATED
 IN ACCORDANCE WITH AMPA UI FOR THE SPECIES, PRODUCT, PRESERVATIVE
 AND END USE, PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AMPA UI
- WOOD JOISTS OR THE BOTTOM OF WOOD FLOOR WHEN CLOSER THAN 18 INCHES, OR NOOD GIRDERS WHEN CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRAVIL SPACES OR UNEXCAYATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION.
- 2. ALL EXTERIOR SILLS &PLATES THAT REST ON CONCRETE OR MASONRY 5 EXTERIOR FOUNDATION WALLS.
- SILLS AND SLEEPERS ON A CONCRETE OR MASONRY, UNLESS THE SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND IS SEPARATED FROM THE GROUND BY AN APPROVED IMPERVIOUS MOISTURE BARRIER.
- THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 0.5 INCH ON TOPS, SIDES AND ENDS.
- 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 WEATHER, SUCH AS CONCRETE OR MASONRY SLABS, INLESS SEPARATED FROM SUCH FLOORS OR ROOPS BY ANIMPERVIOUS MOISTURE BARRIER.
- 7. WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED 2. DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING 9. STRIPS OR FRAMING MEMBERS.
- ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POSTS, GUARDRAILS, PICKETS, STEPS AND FLOOR STRUCTURE. COVERINGS THAT MOULD PREVENT MOISTURE OR WATER ACCUMILATION ON THE SURFACE OR AT JOINTS BETWEEN IMPUBERS ARE ALLOWED.
- . IN AREAS SUBJECT TO DAMAGE FROM TERMITES METHODS OF PROTECTION SHALL BE ONE OF THE METHODS LISTED IN THE N.C.-R
- UNDER-FLOOR AREAS SHALL BE VENTILATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.C.-R

WOOD \$ FRAMING (continued)

SHEATHING

- WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE N.C.-R
- 2. ROOF SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- . ROOF SHEATHING SHALL BE IN ACCORDANCE WITH THE N.C.-R
- FLOOR SHEATHING PANELS SHALL BE LAID WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- 5. STRUCTURAL FLOOR SHEATHING SHALL COMPLY WITH THE PROVISIONS OF THE NC.-R
- . REFER TO THE STRUCTURAL ENGINEER'S CURRENT SPECIFICATIONS, CALCULATIONS, AND PLANS FOR REQUIRED STRENGTH, GRADE, AND THICKNESS FOR PLYMOOD FLOOR SHEATHING PANELS AND FOR DIAPHRAGM NAILING AND ADHESIVE REQUIREMENTS.
- ALL VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER, AND BE FASTENED TO, COMMON STUDS, HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER, AND BE FASTENED TO, COMMON BLOCKING OF A MINIMUM OF I 1/2 INCH THICKNESS.
-). WHERE APPLICABLE, REFER TO THE SHEAR WALL SCHEDULE FOR REQUIRED STRENGTH, GRADE, AND THICKNESS OF PLYWOOD SHEAR PANELS AND FOR REQUIRED SHEAR WALL NAILING SCHEDULE.
- I. IN ONE- AND TWO-FAMILY DWELLING CONSTRUCTION USING HARD BOARD OR ALUMINUM AS A SOFFIT MATERIAL, THE SOFFIT MATERIAL SHALL BE SECURELY ATTACHED TO FRAMING MEMBERS AND USE AN UNDERLAYMENT MATERIAL OF EITHER FIRE RETARDANT TREATED WOOD, 23/92 INCH WOOD SHEATHING OR 5/8 INCH SYPSUM BOARD, VENTING REQUIREMENTS APPLY TO BOTH SOFFIT AND UNDERLAYMENT AND SHALL BE PER SECTION ROOF OF THE NORTH CAROLINA RESIDENTIAL CODE. WHERE THE PROPERTY LINE IS 10 FEET OR MORE FROM THE BUILDING FACE, THE PROVISIONS OF THIS CODE SECTION DO NOT APPLY.

FLOOR FRAMING

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

ROOF FRAMING

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

MALL FRAMING

- I. THE SIZE, HEIGHT, AND SPACING OF STUDS SHALL BE IN ACCORDANCE WITH THE N.C.-R
- STUDS SHALL BE PLACED WITH THEIR WIDE DIMENSION PERPENDICULAR TO THE WALL.
- NOT LESS THAN THREE STUDS SHALL BE INSTALLED AT EACH CORNER OF AN EXTERIOR WALL.
- MOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS, END JOINTS IN TOP PLATES SHALL BE OFFSET AT LEAST 24 INCHES, JOINTS IN TOP PLATES SHALL BE RULLED SHALL BE AND LEAST SHALL BE NOT OCCUR OVER STUDS, PLATES SHALL BE NOT LESS THAN 2-INCHES NOMINAL THICKNESS AND HAVE A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS. SEE
- . MHERE 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 MITHIN 5 INCHES OF THE STUDS BENEATH, SEE EXCEPTIONS.
- 6. STUDS SHALL HAVE FULL BEARING ON NOMINAL 2 BY OR LARGER PLATE OR SILL HAVING A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS.
- 7. INTERIOR NONDEARING WALLS SHALL BE PERMITTED TO BE CONSTRUCTED WITH 2-INCH-BY-3-INCH STUDS SPACED 24. INCHES ON CENTER OR, WHEN NOT A PART OF A BRACED MAIL LINE, 2-INCH-BY-4-SIVEH FLAT STUDS SPACED 16 INCHES ON CENTER. INTERIOR NONDEARING WALLS SHALL BE CAPPED WITH AT LEAST A SINGLE TOP PLATE. INTERIOR NONDEARING WALLS SHALL BE FIRED/CKED IN ACCORDANCE WITH THE NC-R

MOOD & FRAMING (continued)

- 8. DRILLING AND NOTHCING OF STUDS SHALL BE IN ACCORDANCE WITH THE
 - I. NOTHCING, ANY STUD IN AN EXTERIOR MALL OR BEARING PARTITION MAY BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH, STUDS IN NONBEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40 PERCENT OF A SINGLE STUD WIDTH. NOTCHING OF BEARING STUDS SHALL BE ON ONE EDGE ONLY AND NOT TO EXCEED ONE-FOURTH THE HEIGHT OF THE STUD. NOTCHING SHALL NOT OCCUR IN THE BOTTOM OR TOP 6 INCHES OF BEARING STUDS.
 - DRILLING ANY STUD MAY BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO MORE THAN 60 PERCENT OF THE STUD WIDTH, THE EDGE OF THE HOLE IS NO MORE THAN 50/9 INCH TO THE EDGE OF THE STUD, AND THE HOLE SHALL NOT BE CLOSER THAN 60 INCHES FROM AN ADJACENT HOLE OR MOTCH. HOLES NOT EXCEEDING 3/4 INCH DIAMETER CAN BE AS CLOSE AS 1/2 INCHES ON CENTER SPACING, STUDS LOCATED IN EXTERIOR WALLS OR BEARING PARTITIONS DRILLED OVER 40 PERCENT AND UP TO 60 PERCENT SHALL ALSO BE DOUBLED WITH NO MORE THAN TWO SUCCESSIVE DOUBLED STUDS BORED.
 - CUTTING AND NOTCHING OF STUDS SHALL BE PERMITTED TO BE INCREASED TO 65 PERCENT OF THE MIDTH OF THE STUD IN EXTERIOR AND INTERIOR MALLS AND BEARING PARTITIONS, PROVIDED THAT ONE OF THE FOLLOWING CONDITIONS ARE MET.

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

 (d) THE EXTERIOR WALLS OF A KITCHEN MAY BE REINFORCED BY PLACING 1/2-INCH PLYWOOD OR EQUIVALENT REINFORCEMENT ON THE NOTCHED SIDE OF THE WALL. PLYWOOD, IF USED, SHALL REACH FROM THE FLOOR TO COUNTER-TOP HEIGHT AND AT LEAST ONE STUD PURTHER ON EACH SIDE OF THE SECTION THAT HAS BEEN NOTCHED OR CUT.
- 9. WHEN PIPING OR DUCTHORK IS PLACED IN OR PARTIALY IN AN EXTERIOR OR INTERIOR LOAD-BEARING MALL, NECESSITATION CUTTING, DRILLING OR NOTCHING OF THE TOP PLATE B MORE THAN 50 PERCENT OF ITS MIDTH A GALVANIZED METAL TIE OF NOT LESS THAN 0.054 INCH THICK AND I 1/2" INCHES MIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT IOA NAILS HAVING A MINIMUM LENGTH OF I 1/2 INCHES (30 MM) AT EACH SIDE OR EQUIVALENT. THE METAL TIE MUST EXTEND A MINIMUM OF 6 INCHES PAST THE OPENING.
- IO. HEADERS SHALL MEET THE REQUIREMENTS OF THE N.C.-R
- II. PROVIDE LATERAL BRACING PER THE N.C.-R.
- 13. FOUNDATION CRIPPLE WALLS SHALL MEET THE REQUIREMENTS OF THE N.G.-R. CODE
- 14. WOOD STUD WALLS SHALL BE BRACED AS REQUIRED BY THE N.C.-R
- IS. UNLESS COVERED BY INTERIOR OR EXTERIOR WALL COVERINGS OR SHEATHING MEETING THE MINIMAY REQUIREMENTS OF THIS CODE, ALL STUD PARTITIONS OR WALLS WITH STUDS HAVING A HEIGHT-TO-LEAST THICKNESS RATIO EXCEEDING SO SHALL HAVE BRIDGING NOT LESS THAN 2 INCHES IN THICKNESS AND OF THE SAME WIDTH AS THE STUDS HITTED SNUGLY AND NAILED THERETO TO PROVIDE ADEQUATE LATERAL SUPPORT.

FIRE BLOCKS AND DRAFT STOPS

- FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND A ROOF SPACE, FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE LOCATIONS SPECIFIED IN THE N.C.-R
- 2. FIRE BLOCKING SHALL CONSIST OF 2 INCHES NOMINAL LUMBER, OR TWO THICKNESSES OF I-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS, OR ONE THICKNESS OF 29/82-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 29/92-INCH WOOD STRUCTURAL PANELS OR ONE THICKNESS OF 3/4-INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEBOARD, I/2-INCH GYPSOM BOARD, OR I/4-INCH CEMENT-BASED WILL BOARD.
- BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE SHALL BE PERMITTED AS AN ACCEPTABLE FIRE BLOCK.
- 4. BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIALS SHALL BE FERMITTED FOR COMPLIANCE WITH THE 10 FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROYS OF STUDS OR STAGGERED STUDS. LOOSE FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASSES.
- 5. WHEN THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR/CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1,000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS, WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES:
- I. 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.





NORTH CAROLINA

40' SERIES

KB HOME
NORTH CAROLINA DIVISION

4506 S. MIAMI BLVD.
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ISSUE DATE: 02/23/17
PROJECT No.: 1350999:56

DIVISION MGR.:

REVISIONS:

DIVISION REVISIONS
RC1901INCF- 2/27/19 CTD

2018 CODE UPDATE
NC19015NCP/ 03/15/19 / CTD

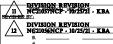
DIVISION REVISIONS
NC19052NCP- 02/02/18 FAE

DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES
NC20025NCP/ 05/22/20 / KBA

HOME OFFICE
CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD



PLAN: 237.2723-R SHEET: GN1

spec level 1
RALEIGH-DURHAM
40' SERIES

THERMAL & MOISTURE PROTECTION

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

FLASHING

- ASTM C 1167.

 AS ALLED AT ALL OF THE LOCATIONS STATED IN N.C.-R.
- AT ALL WINDOW AND DOOR OPENINGS USE FORTIFIBER WATER-RESISTIVE BARRIERS, I.C.C. ESR-1027, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, OR APPROVED EQUAL.
- ALL BEAMS, OUTLOOKERS, CORBELS, ETC. PROJECTED THROUGH EXTERIOR WALLS OR PENETRATING EXTERIOR FINISHES SHALL BE FLASHED WITH A MINIMUM O.019-INCH (NO. 26 SHEET METAL GAGE) CORROSION-RESISTANT METAL AND CAULKED.
- ALL SHEET METAL WORK SHALL BE PERFORMED IN ACCORDANCE ALL SHELL FIGHT ADAYS SHALL BE TENTINED IN PROCESSIONAL WITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA). THE ARCHITECTURAL SHEET METAL MANUAL, AND SEALANT, WATERPROOFING 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 A S.T.M. A525 AND SHALL BE A NUMBER 24 SHEET METAL GAGE UNLESS OTHERNISE NOTED IN THESE NOTES, PLANS, OR MANUFACTURER'S SPECIFICATIONS.
- SHEET ALUMINUM SHALL CONFORM WITH FEDERAL SPECIFICATIONS QQ-A-359 AND A.S.T.M. B209 ALLOY 3003.
- FABRICATE SHEET METAL WITH FLAT LOCK SEAMS AND SOLDER WITH TYPE AND FLUX RECOMMENDED BY MANUFACTURER. SEAL ALUMINUM SEAMS WITH EPOXY METAL SEAM CEMENT. WHERE REQUIRED FOR STRENGTH, RIVET SEAMS AND JOINTS.
- SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE IN ACCORDANCE WITH APPLICABLE STANDARDS TO PROVIDE A PERMANENTLY MATER-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 MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL OF MINIMM MOMINAL, O/014-INCH THICKNESS OR MINERAL SURFACE ROLL ROOFING MEIGHING A MINIMM OF 77 FOUNDS PER IOO SQUARE FEET. CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMM NOMINAL O/014-INCH THICKNESS
- VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING SHINGLES, VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED AS STATED PER THE N.C.-R
- A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES MIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL OR OF THE SAME MATERIAL AS THE ROOF COVERING. PROVIDE TLASHING AT THE INTERSECTION OF CRICKET OR SADDLE AND
- FLASHING AGAINST A VERTICAL SIDEMALL SHALL BE BY THE STEP-FLASHING METHOD PER NC-R.
- FLASHING AGAINST A VERTICAL FRONT WALL, AS WELL AS SOIL STACK VENT PIPE AND CHIMNEY FLASHING, SHALL BE APPLIED ACCORDING TO IALT SHINGLE MANUFACTURER'S PRINTED INSTRUCTIONS
- AT THE JUNCTURE OF ROOF VERTICAL SURFACES, FLASHING AND COUNTERFLASHING SHALL BE PROVIDED IN ACCORDANCE WITH THE N.C.-R. AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND NHERE OF METAL, SHALL NOT BE LESS THAN O.O.I. INCH (NO. 26 GALVANIZED
- 16. VALLEY FLASHING FOR CONCRETE TILE ROOFS SHALL BE AS REQUIRED

ROOFING MATERIALS

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

THERMAL & MOISTURE PROTECTION (continued)

- ROOF COVERING MATERIALS SHALL BE DELIVERED IN PACKAGES BEARING THE MANUFACTURER'S IDENTIFYING MARKS AND APPROVED TESTING AGENCY LABELS WHEN REQUIRED. BULK SHIPMENTS OF MATERIALS SHALL BE ACCOMPANIED BY THE SAME INFORMATION ISSUED IN THE FORM OF A CERTIFICATE OR ON A BILL OF LADING BY THE MANUFACTURER
- COMPOSITION ROOFING SHINGLES SHALL BE OF ASPHALT OR APPROVED RELATED MATERIALS AND MEET THE REQUIREMED OF THE N.C.-R
- UNDERLAYMENT FOR ASPHALT SHINGLES SHALL CONFORM TO ASTM D 226 TYPE I, ASTM D 4604, TYPE I, OR ASTM D 6757. SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET SHALL COMPLY WITH ASTM D 1970
- ASPHALT SHINGLES SHALL COMPLY WITH ASTM D 225 OR ASTM D 3462.
- FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED STEEL, STAINLESS SITEL, ALUMINUM, OR COPPER ROOFING NAILS, MINIMUM (2 GAGE SHANK WITH A MINIMUM 3/6) INCH DIAMETER HEAD, ASTM F 1667, OF A LENSTH TO PENETRATE THROUGH THE ROOFING MATERIALS AND A MINIMUM OF 3/4 INCH INTO THE ROOF SHEATHING. PHERE THE ROOF SHEATHING. PHERE THE ROOF SHEATHING. PHERE THE ROOF SHEATHING. PROTECTION OF SHALL PENETRATE THROUGH THE SHEATHING. FASTENERS SHALL COMPLY WITH ASTM F 1667.
- ASPHALT SHINGLES SHALL HAVE THE MINIMUM NUMBER OF FASTENERS REQUIRED BY THE MANUFACTURER. FOR NORMAL APPLICATION, ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF INTH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE PER N.C.-R.
- UNDERLAYMENT FOR ASPHALT SHINGLES SHALL BE APPLIED IN ACCORDANCE WITH THE N.C.-R
- THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF N.C.-R CLAY ROOF TILE SHALL COMLY WITH ASTM C 1167.
- SLOPES OF 2 1/2 UNITS VERTICAL IN I2 UNITS HORIZONTAL (2-1/2:12)
 OR GREATER. FOR ROOF SLOPES FROM 2 1/2 UNITS VERTICAL
 IN 12 UNITS HORIZONTAL (2-1/2:12) TO FOUR UNITS VERTICAL
 IN 12 UNITS HORIZONTAL (4-1/2), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH THE N.C.-R.
- UNDERLAYMENT FOR CLAY AND CONCRETE TILE SHALL CONFORM WITH ASTM D 226, TYPE II; ASTM D 2626 TYPE I; OR ASTM D 6380 CLASS M MINERAL SURFACED ROLL ROOFING.
- 15. CONCRETE ROOF TILE SHALL COMPLY WITH ASTM C 1492.
- NAILS SHALL BE CORROSION-RESISTANT AND NOT LESS THAN II GAGE, NAILS SHALL BE CONNOSION-KESISTANT AND NOT LESS THAN IT GASE, SIG-INCH HEAD, AND OF SUFFICIENT LENGTH TO FENETRATE THE DECK A MINIMUM OF SIGH-INCH OR THROUGH THE THICKNESS OF THE DECK, WHICHEVER IS LESS. ATTACHING WIRE FOR CLAY OR CONCRETE TILE SHALL NOT BE SMALLER THAN O 083-INCH. PERIMETER FASTENING AREAS INCLIDE THREE TILE COURSES BUT NOT LESS THAN 36 INCHES FROM EITHER SIDE OF HIPS OR RIDGES AND EDGES OF EAVES AND GABLE RAKES.
- CLAY AND CONCRETE ROOF TILES SHALL BE FASTENED IN ACCORDANCE WITH THE N.C.-R
- TILE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, BASED ON CLIMATIC CONDITIONS, ROOF SLOPE, UNDERLAYMENT SYSTEM, AND TYPE OF TILE BEINS INSTALLED PER THE N.C.-R.
- THE INSTALLTION OF BUILT-UP ROOFS SHALL COMPLY WITH THE N.C.-R
- 20. BUILT-UP ROOFS SHALL HAVE A DESIGN SLOPE OF A MINIMUM OF ONE-FOUTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE)
 FOR DRAINAGE, EXCEPT FOR COAL-TAR BUILT-UP ROOFS THAT SHALL
 HAVE A DESIGN SLOPE OF A MINIMUM ONE-EIGHTH UNIT VERTICAL IN
 12 UNITS HORIZONTAL (1-PERCENT SLOPE).
- 21. BUILT-UP ROOF COVERING MATERIALS SHALL COMPLY WITH THE STANDARDS PER THE N.C.-R

- SEE FINISHES IN THESE GENERAL NOTES FOR EXTERIOR PLASTER
- MATERIALS USED FOR THE CONSTRUCTION OF EXTERIOR WALLS SHALL COMPLY WITH THE PROVISIONS OF THE N.C.-R
- EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLIDE FLASHING. THE EXTERIOR WALL ENVELOPE SHA BIC DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMILATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENEER AS REQUIRED AND A MEANS OF DRAINING WATER THAT ENTERS THE ASSEMBLY TO THE EXTERIOR. PROTECTION ASAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED.
- ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTM D 226 FOR TYPE I FELT OR OTHER APPROVED WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS, SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, MITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2 INCHES, MHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES, THE FELT OR OTHER APPROVED MATERIAL SHALLS END TERMINATED AT PENETRATIOS AND BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE.
- FIBER CEMENT SIDING CONFORMING TO THE REQUIREMENTS OF THE N.C.-R. AND COMPLYING WITH ASTM D 3674 SHALL BE FERMITTED ON EXTERIOR WALLS OF BUILDINGS OF TYPE V CONSTRUCTION LOCATED IN AREA WHERE THE SUITMATE WIND SPEED SPECIFIED DOES NOT EXCEED 100 MILES PER HOUR AND THE BUILDING HEIGHT IS LESS THAN 40 FEET IN EXPOSURE C, INVERE CONSTRUCTION IS LOCATED IN AREAS WHERE THE ULTIMATE WIND SPEED EXCEEDS 190 MILES PER HOUR OR BUILDING HEIGHTS ARE IN EXCESS OF 40 FT, DATA INDICATING COMPLIANCE MUST BE SUBMITTED. FIBER CEMENT SIDING SHALL BE SECURED TO BUILDING HOT PROVIDE WEATHER PROTECTION FOR THE EXTERIOR WALLS OF THE BUILDING.
- THE N.C.-R FIBER CEMENT SIDING SHALL BE APPLIED TO CONFORM WITH THE WEATHER-RESISTIVE BARRIER REQUIREMENTS FIBER CEMENT SIDING AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED
- FIBER CEMENT SIDING FASTENERS AND ACCESSORIES SHALL MEET THE 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 A1956 AND, MHERE USED STRUCTURALLY, SHALL BE SO IDENTIFIED BY THE LABEL OF AN APPROVED AGENCY.
- WOOD VENEERS ON EXTERIOR WALLS OF BUILDINGS OF TYPES I, II, III, AND IV CONSTRUCTION SHALL BE NOT LESS THAN I-INCH NOMINAL THICKNESS, 0.438-INCH EXTERIOR HARDBOARD SIDING OR 0.375-INCH EXTERIOR-TYPE WOOD STRUCTURAL PANELS OR PARTICLE-BOARD AND SHALL CONFORM TO THE REQUIREMENTS OF THE N.C.-R
- FIBER-CEMENT LAP SIDING HAVING A MAXIMUM WIDTH OF 12 INCHES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM CIID6, TYPE A, MINIMUM GRADE III. LAP SIDING SHALL BE LAPPED A MINIMUM OF III/4 INCHES (32 MM) AND LAP SIDING NOT HAVING TONGUE-AND-EROOVE 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 WITH INC-R. LAP SIDING COURSES MAY BE INSTALLED WITH THE FASTENER HEADS EXPOSED OR CONCEALED, ACCORDING TO NC-R OR APPROVED MANUFACTURERS' INSTALLATION INSTRUCTIONS.

INSULATION

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

 I. BLOCKING AND SEALING FLOOR/CEILING SYSTEMS AND INDER KIME MAILS OF SOLID MATERIAL CONSISTENT WITH APPENDIX E-23 AND E-24 OF THE IX-R. KNEE WALLS OPEN TO UNCONDITIONED OR EXTERIOR SPACE. 2. CAPPING AND SEALING SHAFTS OR CHASES, INCLUDING FLUE 31. CAPPING AND SEALING SOFFIT OR DROPPED CEILING AREAS
- FRAMED CAVITY WALLS, THE EXTERIOR THERMAL ENVELOPE WALL INSULATION SHALL BE INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT MITH THE BUILDING ENVELOPE AIR BARRIER, INSULATION SHALL BE SUBSTANTIALLY FREE FROM INSTALLATION GAPS, VOIDS, OR COMPRESSION, FOR FRAMED WALLS, THE CAVITY INSULATION SHALL BE ENCLOSED ON ALL SIDES WITH A RIGID MATERIAL OR AN AIR BARRIER MATERIAL, WALL INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN INSULATION SHALL BE ENCLOSED AT THE FOLLOWING LOCATIONS WHEN NSTALLED ON EXTERIOR WALLS PRIOR TO BEING COVERED BY SUBSEC CONSTRUCTION, CONSISTENT WITH APPENDIX E-2.3 AND E-2.4 OF NC-R:
- I. TUBS
 2. SHOWERS
 3. STAIRS
 4. FIREPLACE UNITS
 ENCLOSURE OF WALL CAVITY INSULATION ALSO APPLIES TO WALLS THAT
 ADJOIN ATTIC SPACES BY PLACING A RIGID MATERIAL OR AIR BARRIER
 MATERIAL ON THE ATTIC SIDE.

DOORS & WINDOWS

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

DOORS & WINDOWS (continued)

- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FEET IN THE CASE OF ROUND FLOOR LEVEL WINDOW AND NOT LESS THAN 5.7 SQUARE FEET IN THE CASE OF AN UPPER STORY WINDOW.
- L EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM T CLEAR OPENING HEIGHT OF 24 INCHES.
- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING WIDTH OF 20 INCHES.
- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM MITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE.
- THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE FEET, MITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES. THE AREA OF THE MINDOW WELL SHALL ALLOW ENERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED PER THE N.C.-R. THE LADDER OR STEPS REQUIRED SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6" INTO THE REQUIRED DIMENSIONS OF THE MINDOW WELL.
- MINDOW WELLS MITH A VERTICAL DEPTH GREATER THAN 44 INCHES SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER OR STEPS USABLE WITH THE MINDOW IN THE FULLY OPEN POSITION.
- BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BE PLACED OVER EMERGENCY ESCAPE AND RESCUE OPENINGS, BULKHEAD ENCLOSURES, OR NINDOM WELLS THAT SERVE SUCH OPENINGS, PROVIDED THE MINIMAN NET CLEAR OPENING SIZE COMPLIES WITH THE NC.-R AND SUCH DEVICES SHALL BE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR FORCE GREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENING
- ALL INTERIOR EGRESS DOORS AND A MINIMUM OF ONE EXTERIOR EGRESS DOOR SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH ESPE 19 TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

GLAZING & SAFETY GLAZING

- HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS, NATURAL VENTILATION SHALL BE THROUGH WINDOWS, SKYLIGHTS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE OPENABLE AREA TO THE OUTDOORS SHALL BE NOT LESS THAN 4 PERCENT OF THE FLOOR AREA BEING VENTILATED
- BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR MINDONS OF NOT LESS THAN 3 SQUARE FEET, ONE-HALF OF WHICH MUST BE OPENABLE.
- EXCEPT AS INDICATED, EACH PANE OF GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BE PROVIDED WITH MANUFACTURER'S DESIGNATION SPECIFYING MHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS AND THE SAFETY GLAZING STANDARD MITH MHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION SHALL BE ACID ETCHED, SANDBLASTED, CERAMIC-FIRED, LASER ETCHED, EMBOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT BEING DESTROYED.
- INDIVIDUAL GLAZED AREAS, INCLUDING GLASS MIRRORS IN HAZARDOUS LOCATIONS SHALL PASS THE TEST REQUIREMENTS OF CPSC 16 CFR, PART 1201. GLAZING SHALL COMPLY WITH CPSC 16.
- THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING:
- GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING,
- SUDING AND BIFOLD DOORS
 SLIDING AND BIFOLD DOORS
 SLAING IN AN INDIVIDUAL PIXED OR OPERABLE PANEL IN THE SAME
 PLANE AS A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN
 24-INCHES OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM
 EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR NALKING
- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:
- 3.1 EXPOSED AREA OF AN INDIVIDUAL PANE LARGER THAN 9 SQUARE
- 3.2 BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR.
- ONE OR MORE WALKING SURFACES WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING.
- GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOYE A MALKING SURFACE.
- GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS AND SHOWERS, GLAZING ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.
- GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR SWIMMING POOLS, HOT TUBS AND SPAS WHERE THE BOTTOM EDGE O THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE AND WITHIN 60 INCHES HORIZONTALLY OF THE WATER'S EDGE. THIS LL 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 160 DEGREES FROM THE BOTTOM TREAD NOSING.
- HINGED SHOWER DOORS SHALL OPEN OUTWARD.
- GLAZING SHALL BE IN ACCORDANCE WITH ENERGY COMPLIANCE CALCULATIONS BASED ON A LOCALLY ADOPTED ENERGY CODE THE MODEL ENERGY CODE OR THE INTERNATIONAL ENERGY CONSERVATION CODE.
- LOCATED MORE THAN 12 INCHES (1629 MM) ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES (610 MM) ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED, OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENING PASSAGE OF A 4 INCH (IO2 MM) DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES (610 MM) OF THE FINISHED FLOOR

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

FINISHES

- GYPSUM WALLBOARD SHALL BE INSTALLED IN CONFORMANCE WITH THE CURRENT EDITION OF THE NORTH CAROLINA RESIDENTIAL CODE AND ALL STATE AND LOCAL BUILDING CODES. THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- MATERIALS, ALL GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO ASTM C 22, C 475, C 514, C 1002, C 1041, C ITT, C 1176, C 1276 C 1946, OR C 1659 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE NC.-R. ADMESIVES FOR THE INSTALLATION OF GYPSUM BOARD SHALL CONFORM TO ASTM C 551.
- 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 FRAMING MEMBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERPENDICULAR TO THE FRAMING MEMBERS. EDGES AND ENDS OF GYPSUM BOARD SHALL BRAING MEMBERS. EDGES AND ENDS OF GYPSUM BOARD SHALL BRAING STACE-RATED CONSTRUCTION, SHEAR RESISTANCE, OR PIRA-RESISTACE-RATED CONSTRUCTION, CEALED SPACES WHERE RIFE-RESISTACE-RATED CONSTRUCTION.
- EASTENERS AT THE TOP AND BOTTOM PLATES OF VERTICAL ASSEMBLIES FASIENCES AT THE TOP AND BOTTOM FLATED OF VERTICAL ASSEMBLIES, OR THE EDGES AND ENDS OF HORIZONTAL ASSEMBLIES PERPENDICULAR TO SUPPORTS, AND AT THE MALL LINE MAY BE OMITTED EXCEPT ON SHEAR-RESISTING ELEMENTS OR FIRE- RESISTIVE ASSEMBLIES. FASTENERS SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE PAPER WITH THE FASTENER HEAD.
- GYPSUM BOARD USED AS THE BASE OR BACKER FOR ADHESIVE APPLICATION OF CERAMIC TILE OR OTHER REQUIRED NON-ABSORBENT FINISH MATERIAL SHALL CONFORM TO ASTM C 1946, C 1175 OR C1275. USE OF WATER-RESISTANT GYPSUM BACKING BOARD SHALL BE PERMITTED ON CEILINGS WHERE FRAMING SPACING DOES NOT EXCEED 12 INCHES ON CENTER FOR 1/2-INCH-THICK OR 16 INCHES FOR 5/8-INCH-THICK GYPSUM BOARD. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT, GUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTURER.
- MATER RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMDITY.
- WHEN APPLYING A WATER-BASED TEXTURE MATERIAL. THE MINIMUM SYPSIM BOARD THICKNESS SHALL BE INCREASED FROM 3/6 INCH TO 1/2 INCH FOR 16-INCH ON CENTER FRAMING, AND FROM 1/2 INCH TO 5/6 INCH FOR 24-INCH ON CENTER FRAMING OR 1/2 INCH SAG-RESISTANT GYPSIM CEILING BOARD SHALL BE USED.

- ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIAL.
- BACKING OR A LATH SHALL PROVIDE SUFFICIENT RIGIDITY TO PERMIT PLASTER APPLICATION.
- WHERE LATH ON VERTICAL SURFACES EXTENDS BETWEEN RAFTERS OR OTHER SIMILAR PROJECTING MEMBERS, SOLID BACKING SHALL BE INSTALLED TO PROVIDE SUPPORT FOR LATH AND ATTACHMENTS. GYPSUM LATH OR GYPSUM BOARD SHALL NOT BE USED, EXCEPT THAT ON HORIZONTAL SUPPORTS OF CEILINGS OR ROOF SOFFITS IT MAY BE USED AS BACKING FOR METAL LATH OR WIRE FABRIC LATH AND CEMENT PLASTER.
- UNLESS SPECIFIED OTHERWISE, ALL WALL COVERINGS SHALL BE SECURELY UNLESS SPECIFIED OF HERWISE, ALL WALL COVENINGS SHALL BE SECURELY FASTENED PER THE N.C.-R. OR NITH OTHER APPROVED ALIMINM, STAINLESS STEEL, ZINC-COATED OR OTHER APPROVED CORROSION-RESISTIVE FASTENERS, WHERE THE BASIC MIND SPEED IS 110 MILES PER HOUR OR HIGHER, THE ATTACHMENT OF WALL COVERINGS SHALL BE DESIGNED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED AND ADJUSTED FOR HEIGHT AND EXPOSURE.
 - A MINIMUM O.OI9-INCH (NO. 26 GALVANIZED SHEET GAGE), A MINIVUM O.OI4-INCH (NO. 26 ALL/VANIZED SHEET 6.AGE),
 CORROSION-RESISTANT WEEP SCREED OR PLASTIC WEEP SCREED, WITH A
 MINIMUM VERTICAL ATTACHMENT FLANGE OF 31/2 INCHES SHALL BE
 PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD
 WALLS IN ACCORDANCE WITH ASTM C 926. THE WEEP SCREED SHALL BE
 PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE
 PAVED AREAS AND SHALL BE OF A TYPE THAT NILL ALLOW TRAPPED
 WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE
 WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE
 EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE
 OF THE WEEP SCREED.

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

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

THE PROPORTION OF AGGREGATE TO FIBER CEMENT MATERIALS SHALL BE

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





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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MECHANICAL & PLUMBING

H.V.A.C.

- I. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH THE NORTH CAROLINA RESIDENTIAL AND MECHANICAL CODE. INSTALLATIONS OF MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS NOT ADDRESSED BY THIS CODE SHALL COMPLY MITH THE APPLICABLE PROVISIONS OF THE NORTH CAROLINA RESIDENTIAL AND FUEL 6AS CODE.
- CONTRACTOR SHALL DESIGN ENTIRE H.V.A.C. SYSTEM AND SUBMIT DRAWINGS FOR OWNER/BUILDER'S APPROVAL PRIOR TO ORDERING 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.
- 4. WHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURE SET POINTS AT DIFFERENT TIMES OF THE DAY, THIS THERMOSTAT SHALL INCLUDE THE CAPABILITY TO SET BACK OR TEMPORABILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55 DEG. F (19 C) OR UP TO 85 DEG. F (29 C).
- 5. ALL DUCTNORK SHALL CONFORM TO THE REQUIREMENTS OF THE N.C.-R
- COMBUSTION AIR SHALL BE PROVIDED FOR FORCED AIR UNITS IN ACCORDANCE WITH N.C.-R
- CONTRACTOR TO PROVIDE BOOT IN DUCTWORK WHEN OPTIONAL "HONEYWELL" OR "CARRIER" ELECTRONIC AIR CLEANER IS PROVIDED.
- DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DIRELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GASE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GAPAGE PER N. 4.
- EXTERIOR-GRADE INSTALLATIONS. EQUIPMENT AND APPLIANCES INSTALLED ABOVE GRADE LEVEL SHALL BE SUPPORTED ON A SOLID BASE OR APPROVED MATERIAL A MINIMUM OF 2 INCHES THICK.
- IO. UNDER-FLOOR INSTALLATION, SUSPENDED EQUIPMENT SHALL BE A MINIMUM OF 6 INCHES ABOVE THE ADJOINING GRADE.
- II. CRANL SPACE SUPPORTS. IN A CRAYL SPACE, A MINIMUM OF 2-INCH THICK SOLID BASE, 2-INCH (5) MM) THICK FORWED CONCRETE, OR STACKED MASONRY UNITS HELD IN PLACE BY MORTAR OR OTHER APPROVED METHOD. THE WATER HEATER SHALL BE SUPPORTED NOT LESS THAN 2 INCHES ABOVE GRADE.
- 12. DRAINAGE. BELOW-GRADE INSTALLATIONS SHALL BE PROVIDED WITH A NATURAL DRAIN OR AN AUTOMATIC LIFT OR SUMP PUMP. FOR PIT REQUIREMENTS REFER TO NC.-M

VENTING

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

PLUMBING

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

MECHANICAL \$ PLUMBING (continued)

PLUMBING (continued)

- 9. ALL DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERLIZATION, DISTIL-LATION, PROCESSING, COOLING, OR STORAGE OF ICE OR FOODS, AND THAT CONNECT TO THE WATER SUPPLY SYSTEM, SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM, WATER PUMPS, FILTERS, SOFTEMERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION.
- 4. 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 LIEFT SIDE OF THE FITTINGS.
- DIVERTERS FOR SINK FAUCETS WITH A SECONDARY OUTLET CONSISTING OF A FLEXIBLE HOSE AND SPREY ASSEMBLY SHALL CONFORM TO ASTM AII.2.19. IN ADDITION TO THE REGUIREMENTS IN N.C.-P
- 7. THE INSTALLATION OF A WATER SERVICE OR WATER DISTRIBUTION PIPE SHALL BE PROHIBITED IN SOIL AND GROUND WATER THAT IS CONTAMINATED. GROUND WATER CONDITIONS SHALL BE REQUIRED TO ACERTAIN THE ACCEPTABILITY OF THE MATER SERVICE OR WATER DISTRIBUTION PIPING MATERIAL FOR THE SPECIFIC INSTALLATION, WHERE DETRIMENTAL CONDITIONS EXIST, APPROVED ALTERNATIVE MATERIALS OR ROUTING SHALL BE REQUIRED.
- 8. MATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C.-PLUMBING. ALL MATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 100 PSI AT 180 DEGREES F.
- 9. PIPE PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT 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.
- IO. PIPES PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM
- II. PIPING SHALL BE INSTALLED SO AS TO PREVENT DETRIMENTAL STRAINS AND STRESSES IN THE PIPE. PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT. PIPING SHALL BE INSTALLED TO AVOID STRUCTURAL STRESSES OR STRAINS MITHIN BUILDING COMPONENTS.
- 12. MATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. IN OTHER CASES, WATER, SOIL AND WASTE PIPES SHALL NOT BE INSTALLED OUTSIDE OF A BUILDING, IN INCONDITIONED ATTICS, UNCONDITIONED UTILITY ROOMS OR IN ANY OTHER PLACE SUBJECTED TO FREEZING TEMPERATURES INLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPES FROM FREEZING BY A MINIMUM OF R-65 INSULATION DETERMINED AT 15 DEG. F IN ACCORDANCE WITH ASTM CITT OR HEAT OR BOTH.

 EXTERIOR WATER SUPPLY SYSTEM PIPING SHALL BE INSTALLED NOT LESS THAN 6 INCHES BELOM THE FROST LINE AND NOT LESS
 THAN 12 INCHES BELOM GRADE.
- 3. BUILDING SEMER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN N.C-R.
- 14. BUILDING SEWER 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 N.C.-P.
- 15. WHERE WASTE LINE DROPS OCCUR IN A LOCATION WHERE THE SOUND OF A FLUSHED TOILET MAY BE UNDESIRABLE, SUCH AS IN WALLS OR PARTITIONS ADJACENT TO EATING ROOMS, USE CAST IRON PIPING OR SIMILAR APPROVED HARD OR DENSE PIPING TO MITIGATE SOUND.
- 16. 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.
- IB. INDIVIDUAL SHOWER AND TUB/SHOWER COMBINATION VALVES SHALL BE EQUIPPED WITH CONTROL VALVES OF THE PRESSURE-BALANCE, THERWOSTATIC-MIXING OR COMBINATION PRESSURE-BALANCE/
 THERWOSTATIC-MIXING VALVE TYPES WITH A HIGH LIMIT STOP IN ACCORDANCE WITH ASSE (IGH, ASME AIZLIGH)CASS BIZSIA. AND SHALL BE INSTALLED AND ADJUSTED PER MANUFACTURE'S INSTRUCTIONS.
- IS. GAS AND ELECTRIC MATER HEATERS HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 16 INCHES ABOVE THE GARAGE FLOOR. REFER TO N.C.-IR FOR EXCEPTION.
- 20. WATER HEATERS, (USING SOLID, LIQUID OR GAS FUEL) WITH THE EXCEPTION OF THOSE HAVING DIRECT VENT SYSTEMS, SHALL NOT BE INSTALLED IN BATHROOMS AND BEDROOMS OR IN A CLOSET WITH ACCESS ONLY THROUGH A BEDROOM OR BATHROOM, HONEVER, WATER HEATERS OF THE AUTOMATIC STORAGE TYPE MAY BE INSTALLED AS REPLACEMENT IN A BATHROOM, WHEN APPROVED BY THE PUMPING OFFICIAL, PROVIDED THEY ARE VENTED AND SUPPLIED WITH ADEQUATE COMBUSTION AIR.
- I. IN SEISMIC DESIGN CATEGORIES DO, DI AND D2 AND TOWNHOUSES IN SEISMIC DESIGN CATEGORY C, WATER HEATERS SHALL BE ANCHORED OR STRAPPED IN THE UPPER ONE-THIRD AND IN THE LOWER 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.
- APPLIANCES LOCATED IN A GARAGE OR CARPORT SHALL BE PRO-TECTED FROM IMPACT BY A MOVING VEHICLE.
- 23. WHERE WATER HEATERS OR HOT WATER STORAGE TANKS ARE INSTALLED IN REMOTE LOCATIONS SUCH AS SUSPENDED CEILING, ATTICS, ABOVE OCCUPIED SPACES, OR INVENTILATED CRAPIL 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 STELL PAN HAVING A MINIMUM THICKNESS OF 24 GAGE, OR OTHER PANS APPROVED FOR SUCH USE.
- 24. WHERE CLOTHES MASHING MACHINES ARE LOCATED ON MOOD FRAMED FLOORS WHERE LEAKAGE WOULD CAUSE DAMAGE, A GALVANIZED STEEL PAN HAVING A MINIMUM THICKNESS OF 24 GASE, OR OTHER PANS APPROVED FOR SUCH USE SHALL BE PROVIDED.

MECHANICAL & PLUMBING (continued)

LUMBING (continued)

- 25. APPLIANCES AND EQUIPMENT USED FOR HEATING WATER OR STORING HOT WATER SHALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND A SEPARATE TEMPERATURE-RELIEF VALVE OR A COMBINATION PRESSURE-AND-TEMPERATURE RELIEF VALVE. RELIEF VALVES SHALL HAVE A MINIMUM RATED CAPACITY FOR THE EQUIPMENT SERVED AND SHALL CONFORM TO AND ZIZLEZ. THE RELIEF VALVE SHALL NOT BE USED AS A MEANS OF CONTROLLING THERMAL EXPANSION.
- 26. THE WATER SUPPLY TO A DISHWASHER SHALL BE PROTECTED AGAINST BACKFLON BY AN AIR GAP COMPLYING NITH ASME AII2.13 OR AII2.12 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 III.2 INCHES (36 MM) IN OUTSIDE DIAMETER. THE DISHWASHER DISCHARGE PIPE OR TUBING SHALL RISE TO THE UNDERSIDE OF THE COUNTER AND SHALL BE SECURELY FASTENED TO THE UNDERSIDE OF THE COUNTER AND SHALL BE SECURELY FASTENED TO THE UNDERSIDE OF THE SINK RIM OR COUNTER BEFORE CONNECTING TO THE HEAD OF THE FOOD-WASTE DISPOSER OR TO A WYE FITTING IN THE SINK TAILPIECE.

FIREPLACE

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

ELECTRICAL

- I. ALL MATERIALS AND APPLIANCES, INSTALLATION AND CONSTRUCTION METHODS SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE OR CURRENT SAE REQUIREMENTS.
- ALL ELECTRICAL SYSTEMS, CIRCUITS, FIXTURES AND EQUIPMENT SHALL BE GROUNDED IN A MANNER COMPLYING WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL WIRING SHALL BE SO INSTALLED THAT, WHEN COMPLETED, THE SYSTEM WILL BE FREE FROM SHORT CIRCUITS AND FROM GROUNDS OTHER THAN AS REQUIRED OR PERMITTED IN NEC. 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-INTERMIPTER PROTECTION FOR PERSONNEL. THE GROUND-FAULT CIRCUIT-INTERMIPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- A. BATHROOMS.
- B. GARAGES AND ALSO ACCESSORY BUILDINGS THAT HAVE A FLOOR LOCATED AT OR BELON GRADE LEVEL NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS, AND AREAS OF SIMILAR USE.
- c. OUTDOORS
- CRAWL SPACES. WHERE THE CRAWL SPACE IS AT OR BELOW GRADE LEVEL.
- E. UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS.
- F. KITCHENS. WHERE THE RECEPTACLES ARE INSTALLED TO SERVE THE COUNTERTOP SURFACES.
- 6. SINKS, WHERE RECEPTACLES ARE INSTALLED WITHIN 6 FT FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK.
- H. BOAT HOUSES.
- BATHTUBS OR SHOWER STALLS WHERE RECEPTACLES ARE INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL.
- J. LAUNDRY AREAS
- DISHWASHER GFCI PROTECTION IS NOT REQUIRED FOR OUTLETS THAT SUPPLY DISHWASHERS INSTALLED IN DWELLING UNIT LOCATIONS
- CRAWL SPACE LIGHTING OUTLETS, GFCI PROTECTION SHALL BE PROVIDED FOR LIGHTING OUTLETS NOT EXCEEDING 120 VOLTS INSTALLED IN CRAWL SPACES.
- APPLIANCE RECEPTACLE OUTLETS INSTALLED IN A DWELLING UNIT FOR SPECIFIC APPLIANCES, SUCH AS LANDRY EQUIPMENT, SHALL BE INSTALLED WITHIN 6 FEET OF THE INTENDED LOCATION OF THE APPLIANCE.
- IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN, SURROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DWELLING WITTS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY MALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLIDING ANY WALL SPACE OF MORE IN WIDTH (INCLIDING SPACE) MEASURED AROUND CORNIERS) AND INBROKEN ALONG THE FLOOR LINE BY DOORNAYS AND SIMILAR OPENINGS, FIREPLACES, AND FIXED CABINETS, AND THE WALL SPACE OCCUPIED BY FIXED PANELS IN EXTERIOR WALLS, BUT EXCLIDING SALIDING PANELS IN EXTERIOR WALLS, THE WALL SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING BAR-TYPE COUNTERS OR RAILINGS, SHALL BE INCLIDED IN THE 6 FOOT MEASUREMENT.
- 9. IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA OF A DWELLING UNIT, THE TWO OR MORE 20-AMPERE SMALL-APPLIANCE BRANCH CIRCUITS REQUIRED SHALL SERVE ALL WALL AND FLOOR RECEPTACLE OUTLETS, ALL CONTERTOP OUTLETS, AND RECEPTACLE OUTLETS FOR REPRIGERATION EQUIPMENT. THE TWO OR MORE SMALL-APPLIANCE BRANCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- IO. IN KITCHENS, PANTRIES, BREAKFAST ROOMS, DINING ROOMS AND SIMILAR AREAS OF DWELLING UNITS, RECEPTACLE OUTLETS FOR COUNTER SPACES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:
- (I) A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTER SPACE IZ INCHES OR WIDER. RECEPTACLE OUTLETS SHALL BE INSTALLED 30 THAT NO POINT ALONS THE WALL LINE IS MORE THAN 24 INCHES MEASURED HORIZONTALLY FROM A REC

ELECTRICAL (continued)

- (2) AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH ISLAND COUNTER SPACE NITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER.
- (9) AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH PENINSULAR COUNTER SPACE WITH A LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR SKEATER. A PENINSULAR COUNTERTOP IS MEASURED FROM CONNECTING PERPENDICULAR WALL.
- (4) COUNTERTOP SPACES SEPARATED BY RAINE TOPS, REFRIGERATORS, OR SINKS SHALL BE CONSIDERED AS SEPARATE COUNTERTOP SPACES IN APPLITING THE REQUIREMENTS OF (I), (2), AND (3)
 ABOVE. IF A RAINE, COUNTER-MOUNTED COOKING UNIT, OR SINK
 IS INSTALLED IN AN ISLAND OR PENINSULAR COUNTERTOP AND THE
 DEPTH OF THE COUNTER BEHIND THE ITEM IS LESS THEN IZ INCHES,
 IT MILL BE CONSIDERED TO DIVIDE THE COUNTERTOP SPACE INTO
 TWO SEPARATE COUNTERTOR SPACES. EACH COUNTERTOP SPACE
 SHALL COMPLY WITH APPLICABLE REQUIREMENTS.
- (5) RECEPTACLE OUTLETS SHALL BE LOCATED NOT MORE THAN 20 INCHES ABOVE THE COUNTERTOP, RECEPTACLE OUTLETS RENDERED NOT READILLY ACCESSIBLE BY APPLIANCE FASTENED IN PLACE, APPLIANCE GARAGES, SINKS, OR RANGETOPS AS COVERED IN 4) ABOVE, OR APPLIANCES OCCUPYING DEDICATED SPACE SHALL NOT BE CONSIDERED AS THESE REQUIRED OUTLETS.
- II. AT LEAST ONE WALL RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS MITHIN 3 FEET OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED IN WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR BASIN COUNTERTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET NOT MORE THAN 12" BEIOW THE COUNTERTOP.
- 12. IN DIVELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN AREAS DESIGNATED FOR THE INSTALLATION OF LAUNDRY EQUIPMENT.
- 19. IN EACH ATTACHED GARAGE AND IN EACH DETACHED GARAGE MITH ELECTRIC POWER, THE BRANKE (IRRUIT SUPPLYING THIS RECEPTACLE(S) SHALL NOT SUPPLY OUTLETS OUTSIDE OF THE GARAGE. AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN EACH VEHICLE BAY.
- 14. CABLE- OR RACEMAY-TYPE WIRING METHODS INSTALLED IN A GROOVE, TO BE COVERED BY MALLEDARD, SIDING PANELING, CARPETING, OR, SIMILAR FINISH, SHALL BE PROTECTED BY 1/16 INCH THICK STEEL. PLATE, SLEEVE, OR EQUIVALENT OR BY NOT LESS THAN 1-1/4 INCH FREE SPACE FOR THE FILL LENGTH OF THE GROOVE IN WHICH THE CABLE OR RACEMAY IS IN THAT I STOP THE STAND THE STAND I STOP THE STAND I STAND I STAND I STAND I STOP THE STAND I ST
- 15. RECEPTACLES IN DAMP OR WET LOCATIONS.
 - A. A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED FROM MEATHER OR IN OTHER DAMP LOCATIONS SHALL HAVE AN ENCLOSURE FOR THE RECEPTACLE THAT IS WEATHERPROOF WHEN THE RECEPTACLE IS COVERED. (ATTACHMENT PLUS CAP NOT INSERTED AND RECEPTACLE COVERS (LOSED.)
 - B. ALL IS- AND 20- AMPERE, I.25- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS MEATHER PROOF INHETHER OR NOT THE ATTACHENT PLUE CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUTY". ALL IS- AND 20- AMPERE, I.25- AND 250-VOLT NONLOCKING RECEPTACLES SHALL BE LISTED MEATHER RESISTANT TYPE.
- I6. LIGHTING EQUIPMENT. NOT LESS THAN 15 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS
- 17. LIGHT FIXTURES WITHIN CLOTHES CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH N.E.C.
- 18. ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING VOITLETS OR DEVICES INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PRACIPS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLIMAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. THE ARC-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATOR.
- 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.
- 20. TAMPER-RESISTANT RECEPTACLES IN DWELLING UNITS IN ALL AREAS, ALL NON-LOCKING TYPE 125-VOLT IS-AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS LISTED BELOW:
 - 1. RECEPTACLES LOCATED MORE THAN 5½ ABOVE THE FLOOR.
 2. RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE.
 - 3. A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES LOCATED WITHIN DEDICATED SPACE FOR EACH APPLIANCE THAT, IN NORMAL USE, IS NOT EASILY MOVED FROM ONE PLACE TO ANOTHER, AND THAT IS CORD-AND-PLUS CONNECTED.
 - 4. NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS.
- DIMMER-CONTROLLED RECEPTACLES, A RECEPTACLE SUPPLYING LIGHTING LOADS SHALL NOT BE CONNECTED TO A DIMMER UNLESS THE PLUS/RECEPTACLE COMBINATION IS A NONSTANDARD CONFIGURATION TYPE THAT IS SPECIFICALLY LISTED AND IDENTIFIED FOR EACH SUCH UNIQUE COMBINATION.

SMOKE DETECTORS

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

HOUSEHOLD FIRE ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NFPA TO THAT INCLUDE SMOKE ALARMS, OR A COMBINATION OF SMOKE DETECTOR AND AUDIDE NOTIFICATION DEVICE INSTALLED AS REQUIRED BY THE NC-R RSI4.3 FOR SMOKE ALARMS, SHALL BE PERMITTED. THE HOUSEHOLD FIRE ALARM SYSTEM SHALL PROVIDE THE SAME LEVEL OF SMOKE DETECTION AND ALARM AS REQUIRED BY THE NC-R FOR SMOKE ALARMS IN THE EVENT THE FIRE ALARM PANEL IS REMOVED OR THE SYSTEM IS NOT CONECTED TO A CENTRAL STATION.

3. REQUIRED SMOKE DETECTORS SHALL BE LOCATED IN ACCORDANCE WITH THE NC-R R3143

ELECTRICAL (continued)

CARBON MONOXIDE ALARMS

- I. CARBON MONOXIDE ALARMS IN DMELLING UNITS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, 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 R3I5 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COMBINATION CARBON MONOXIDE AND SHOKE ALLARMS SHALL BE PERMITTED TO BE USED IN LIEU OF INDIVIDUAL CARBON MONOXIDE OR SHOKE ALLARMS.

DRYER VENT

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





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

4506 S. MIAMI BLVD.
SUITE 180
DURHAM, NC 27703
TEL: (919) 768-7980
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ISSUE DATE: 02/23/17
PROJECT No.: 1350999:56
DIVISION MGR.: DS

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DIVISION REVISIONS
NCI90IINCP- 2/27/19 CTD

REVISIONS:

E 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

DIVISION REVISIONS
NC19052NCP- 08/02/18 FAE

DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE
CORP20003CORP-09/20/20-CTD

ADD DECES & SUNROOM
NC21019NCP-04/05/21-CTD

DIVISION REVISION
11 NC21057NCF - 10/25/21 - KBA
DIVISION REVISION
12 N621056NCF - 10/25/21 - KBA

PLAN: 237.2723-R SHEET: GN3

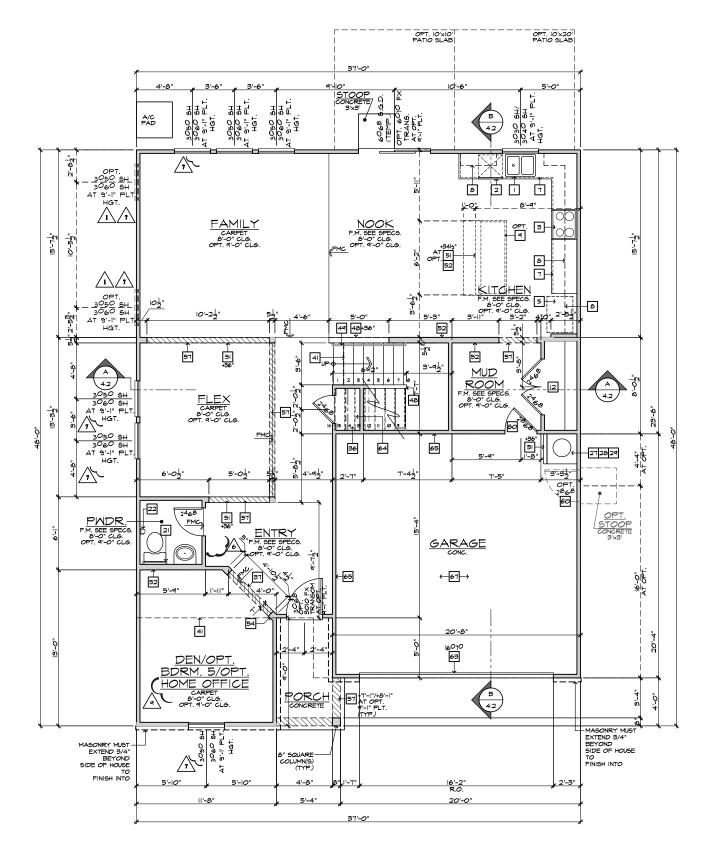
spec. level 1
RALEIGH-DURHAM
40' SERIES



| | INTERIOR KI | S Y | |
|---|---|----------------------------|-------------|
| | SQUARE FOOTA | AGE . | |
| | PLAN 237.2723 | ·R | |
| FIRST FLOOR ARE | A | 1235 | SQ. FT. |
| SECOND FLOOR A | REA | 1488 | SQ. FT. |
| TOTAL ARE | Ą | 2723 | SQ. FT |
| GARAGE AREA | | 416 | SQ. FT. |
| PORCH AREA(S) | | | |
| | ELEVATION 'A' | 45 | SQ. FT. |
| | ELEVATION 'B' | 47 | SQ. FT. |
| | ELEVATION 'C' | 49 | SQ. FT. |
| | ELEVATION 'D' | 147 | SQ. FT. |
| PATIO AREA(S) | | | |
| | IO'xIO' COVERED | 100 | SQ. FT. |
| | IO'x20' COVERED | 200 | SQ. FT. |
| DECK AREA(S) | | | |
| | 12'x12' | 144 | SQ. FT. |
| | 12'x23' | 276 | SQ. FT. |
| BUNROOM AREA | | 144 | SQ. FT. |
| | PLATE NOTE | S | 2018 N.CI |
| | 8'-I" PLATE NO | TES | |
| MINDOW HEAT | | 6'-8" U.N.C |). |
| | NINDOW HDR. HEIGHT: | 7'-O" U.N.C | |
| ENTRY DOOR | RHEIGHT: SS DOOR HEIGHT: | 6'-8" U.N.C 6'-8" (TEM |). (ED) |
| INTERIOR SO | | 7'-4" U.N.C |). |
| INTERIOR DO | OR HEIGHT: | 6'-8" U.N.C |). |
| | 9'-1" PLATE NO | TES | |
| | DER HEIGHT Ist OR 2nd | 7'-8" U.N.C |). |
| 4010 WINDOW ENTRY DOOR | NOVER TUB HDR. HGT.: | 8'-4" U.N.C 6'-8" U.N.C | |
| | SS DOOR HEIGHT: | 6'-8" (TEM | (P.) |
| INTERIOR SO | | 8'-0" U.N.C | o |
| TRAY CEILING INTERIOR DO | | 714" DROF 6'-8" U.N.C | U.N.O. |
| - INTERIOR DO | STAIR DATA NO | | |
| | | 110 | 2018 N.CF |
| 14" DEEP T.J.I. FL 14 TREADS A | H \$-1" PLATE HEIGHT: OOR JOISTS WITH 3/4" T JT 10" EACH T-7-7/16" EACH | \$6 DECKING | |
| 14" DEEP T.J.I. FL 15 TREADS A | H 5/1" PLATE HEIGHT: OOR JOISTS WITH 3/4" T IT IO" EACH IT 7-3/4" EACH | \$6 DECKING | |
| | BENERAL PLAN | NOTES | 2018 N.CR |
| ALL CEILING HEIGHTS, U.N.O. | HTS PER SECTION AND | ELEVATION P | |
| ALL INTERIOR DO | OORS TO BE HOLLOW CO PLAN FOR SIZE). | RE 3/8" TH | CK, |

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

ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RATED (REFER TO PLAN FOR SIZE). ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE I 3/4" THICK (REFER TO PLAN FOR 9/2E). ALL FLOOR MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR JAMPS, UNIO.



FIRST FLOOR PLAN 'A'

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

FLOOR PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY. SINK - GARBAGE DISPOSAL OPTIONAL - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS

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

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

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

5, 34" CLEAR REFRIGERATOR SPACE W OPTIONAL CABINETS ABOVE - OPT. PLIMBING FOR ICEMAKER (RECESSED IN WALL) COMBINATION DOUBLE OVEN OR OVEN MICROMAVE OVEN OR OVEN VERIFY DIMENSIONS MITH MANUFACTURERS' SPECS

BASE CABINETS - REFER TO INTERIOR ELEVATIONS 6. UPPER CABINETS - REFER TO INTERIOR ELEVATIONS

ISLAND CABINET - REFER TO INTERIOR ELEVATIONS IO. MIN. 12" BAR TOP/ BREAKFAST BAR

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

13. SINK CABINET(S) - REFER TO INTERIOR ELEVATIONS 14. SINK CABINET W EXTENDED VANITY & KNEE SPACE BELOW REFER TO INTERIOR ELEVATIONS

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

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

20. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE. 21. TOWEL BAR - PROVIDE 2x SOLID BLK'G IN WALL

22. TOILET PAPER HOLDER - PROVIDE 2x SOLID BLK'G IN WALL 23. RESERVED

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

25. 12" SHELF PER SPECS

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

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

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

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

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

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

34. GAS APPLIANCE 'B' VENT FROM BELOW 35. LINEN PER SPECS (15" DEEP OR U.N.O.)

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

37. WARDROBE W/ SHELF & POLE (REFER TO DETAIL13/AD4)

38, 22"X30" MIN. ATTIC ACCESS 25"X54" PULL DOWN LADDER R.O. ATTIC ACCESS TO BE PROTECTED

39. LINE OF WALL BELOW

40. DUCT CHASE/VOID SPACE - 1/2" GYP. BD. AT CLG. FIRE BLKG 4I. LINE OF FLOOR ABOVE

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

44. LINE OF HIP AT OPTIONAL VOLUME CEILING

45. LINE OF RIDGE AT OPTIONAL VOLUME CEILING

46. CEILING BREAK

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

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

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

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

52. 2x6 STUD WALL 53. 2x6 BALLOON FRAMED WALL PER STRUCTURAL 54. DBL. 2x4 WALL PER PLAN
55. INTERIOR SHELF-SEE PLAN FOR HT.

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

58. ARCHED SOFFIT - SEE ELEV. FOR HGT.

59. WINDOW SEAT

60. OPT. DOOR/ WINDOW

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

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

63. SECTIONAL GARAGE DOOR PER SPECS

64. MIN. 1/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR.

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

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

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

70. EGRESS MINDOW

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

73. PLUMBING DROP FROM ABOVE

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

76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

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

78. 1/2" PRELIM. GYB. BD. BEHIND TUB/SHOWER (TO MEET STC) 79. SLOPING LOW WALL 38" ABOVE ADJACENT TREADS 80. 20 MIN. FIRE-RATED DOOR





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

02/23/17 ISSUE DATE: PROJECT No.: 1350999:56 DIVISION MGR.:

REVISIONS: DIVISION REVISIONS NCI9011NCP: 2/27/19 CTD

2018 CODE UPDATE NCI90ISNCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAR

DIVISION REVISIONS NC20017NCP: 03/02/20 KBA REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM

DIVISION REVISION NC21057NCP - 10/25/21 - KBA

237.2723-R SHEET: 1.1





INTERIOR KEY

| | PLATE NOTES | 2018 N.CR |
|---|---|--|
| Γ | 8'-I" PLATE NOTES | 5 |
| | 2nd FLOOR WINDOW HDR, HEIGHT: ENTRY DOOR HEIGHT: SLIDING GLASS DOOR HEIGHT: INTERIOR SOFFIT HEIGHT: 17 | -'-8" U.N.O. -O" U.N.O. -'-8" U.N.O. -'-8" (TEMP.) -4" U.N.O. -8" U.N.O. |
| l | 9'-I" PLATE NOTES | 5 |
| | 4010 MINDOM OVER TUB HDR. HGT.: ENTRY DOOR HEIGHT: SLIDING GLASS DOOR HEIGHT: INTERIOR SOFFIT HEIGHT: TRAY CEILING. 7 | '-8" U.N.O. '-4" U.N.O. '-8" U.N.O. '-8" (TEMP.) '-0" U.N.O. '4" DROP U.N.O. '-8" U.N.O. |
| Γ | STAIR DATA NOTE | 9 |

STAIR DATA NOTES

FIRST FLOOR WITH \$-1" PLATE HEIGHT:

FIRST FLOOR WITH 9'-1" PLATE HEIGHT:
14" DEEP T.J.I. FLOOR JOISTS WITH 3'-4" T&G DECKING. 15 TREADS AT 10" EACH 16 RISERS AT 7-3/4" EACH

GENERAL PLAN NOTES

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

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

ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE | 3/4" THICK (REFER TO PLAN FOR SIZE). ALL FLOOR MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR JAMBS, U.N.O.

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

5'-0"

12'-41/2"

14'-9"

3'-5[|]

WINDOW ONLY

6 HDR. HG 8'-4"

WITH 9'-1" PLATE

<u>0PT.</u> 4010 FX

3050 SH

 \triangle

<u>_1</u>

3050 SH

NDOW ONLY

0PT. 4010 FX

HDR. HG 8'-4"

3050 SH EGRESS

32"x60"

47

6'-0"

10'-112"

3'-10¹

3'-10¹2"

(37 40

5'-52"-3

57→

4'-2"

[37]→

2'-7"

16 15 14 13 12 11 10 9

BDRM. 3 CARPET 8'-0" CLG. OPT. 9'-0" CLG.

10'-11=

37'-0"

5'-5" 4'-42

OPT. OPEN RAIL

5) 49 OPT. OPEN RAIL

|k-[78]

2468 FMC

52 22

3'-6-5"

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

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||-|<u>|</u>|<u>|</u>|

21 52 22

15

∕\$ 37

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23'-5"

- -15**'-4**-1_"-

PRIM BDRM.

CARPET

6'-0" CLG.

OPT. 9'-0" CLG.

12" 35

т. (148) AD8) 43

EE SPECS:== 0" CLG. 9'-0" CLG.

ορ†.--25 δ —

M.I.C.

0" CLG. 9'-0" CLG.

2868

BDRM. 2 CARPET 8'-0" CLG. OPT. 9'-0" CLG.

4.2

22'-3"

11'-3½"



0PT.51

/1

3050 SH

52

OPT. | 2'-0" | TYP.

FLOOR PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY. 23. RESERVED 25. 12" SHELF PER SPECS 28. R.A.G. LOCATION (SEE HVAC PLAN) 39. LINE OF WALL BELOW 40. DUCT CHASE/VOID SPACE - 1/2" GYP. BD. AT CLG. FIRE BLKG 4I. LINE OF FLOOR ABOVE 46. CEILING BREAK 50. A/C PAD LOCATION 50AA/C LINESET LOCATION 51. LOW WALL - REFER TO PLAN FOR HEIGHT 54. DBL. 2x4 WALL PER PLAN 55. INTERIOR SHELF-SEE PLAN FOR HT. 56. MEDIA NICHE 57. FLAT SOFFIT - SEE ELEV. FOR HGT. 59. WINDOW SEAT 60. OPT. DOOR/ WINDOW

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

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

SLIDE-IN RANGE/OVEN COMBINATION W/ BUILT-IN VENTED HOOD W/LIGHT & FAN. OR MICRO/HOOD COMBO - SEE SPECS 30" COOKTOP W/ BUILT-IN VENTED HOOD W/ LIGHT & FAN VERIFY MITH MANUFRS' SPECS

5, 34" CLEAR REFRIGERATOR SPACE W OPTIONAL CABINETS ABOVE - OPT. PLIMBING FOR ICEMAKER (RECESSED IN WALL) COMBINATION DOUBLE OVEN OR OVEN MICROMAVE OVEN OR OVEN VERIFY DIMENSIONS MITH MANUFACTURERS' SPECS

BASE CABINETS - REFER TO INTERIOR ELEVATIONS

6. UPPER CABINETS - REFER TO INTERIOR ELEVATIONS ISLAND CABINET - REFER TO INTERIOR ELEVATIONS

IO. MIN. 12" BAR TOP/ BREAKFAST BAR

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

13. SINK CABINET(S) - REFER TO INTERIOR ELEVATIONS 14. SINK CABINET W EXTENDED VANITY & KNEE SPACE BELOW REFER TO INTERIOR ELEVATIONS

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

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

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

20. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE. 21. TOWEL BAR - PROVIDE 2x SOLID BLK'G IN WALL

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

24. MASHER & DRYER: - PROVIDE WATER & MASTE FOR MASHER

- RECESS MASHER CONTROL VALIVES IN MALL - VENT DRYER

TO OUTSIDE AIR. - ACCOMMODATE APPLIANCES TO BE

LOCATED MASHER AT LEFT AND DRYER AT RIGHT.

26. OPT. LAUNDRY SINK - REFER TO INTERIOR ELEV'S 27. WATER HEATER LOCATION: - FOR GAS - LOCATE ON 18" HIGH PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN & DRAIN. (REFER TO 15/AD4)

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

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

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

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34. GAS APPLIANCE 'B' VENT FROM BELOW

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

36. COAT CLOSET W SHELF & POLE (REFER TO DETAILTS/AD4) 37. WARDROBE W/ SHELF & POLE (REFER TO DETAIL13/AD4)

38, 22"X30" MIN. ATTIC ACCESS 25"X54" PULL DOWN LADDER R.O. ATTIC ACCESS TO BE PROTECTED

43. LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL 92/AD5) 44. LINE OF HIP AT OPTIONAL VOLUME CEILING

45. LINE OF RIDGE AT OPTIONAL VOLUME CEILING

47. STAIR TREADS & RISERS: - MIN. IO" TREAD & MAX. 7 3/4" RISER - (REFER TO DETAIL 81-82/AD5) 48. MIN. 36" HIGH GUARDWALL (REFER TO DET. 83/AD5 & 85/AD5,

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

52. 2x6 STUD WALL 53. 2x6 BALLOON FRAMED WALL PER STRUCTURAL

58. ARCHED SOFFIT - SEE ELEV. FOR HGT.

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

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

63. SECTIONAL GARAGE DOOR PER SPECS

64. MIN. 1/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR.

65. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAT 1/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA UN.O. 66. OPT. MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL 86/AD5)

67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR AB

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

70. EGRESS MINDOW

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

73. PLUMBING DROP FROM ABOVE

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

76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

77. CONCRETE SLAB. SLOPE I/4" PER FT. MIN. SEE PLAN FOR SIZE. 78. I/2" PRELIM. GYB. BD. BEHIND TUB/SHOWER (TO MEET STC)

79. SLOPING LOW WALL 38" ABOVE ADJACENT TREADS 80. 20 MIN. FIRE-RATED DOOR

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56 DIVISION MGR.: REVISIONS:

DIVISION REVISIONS
NCI90IINCP- 2/27/19 CTD

2018 CODE UPDATE NCI90ISNCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAR

DIVISION REVISIONS NC20017NCP: 03/02/20 KBA REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM

DIVISION REVISION NC21057NCP - 10/25/21 - KBA

DIVISION REVISION NG21056NCP - 10/25/21 - KBA



SHEET: 1.2



INTERIOR KEY

| SQUARE FOOTAGE | | | |
|--|--|--|-----------|
| | PLAN 237.2723 | -R | |
| FIRST FLOOR ARE | ĒΑ | 1235 | SQ. FT. |
| SECOND FLOOR A | REA | 1488 | SQ. FT. |
| TOTAL ARE | A | 2723 | SQ. FT. |
| GARAGE AREA | | 416 | SQ. FT. |
| PORCH AREA(S) | | | |
| | ELEVATION 'A' | 45 | SQ. FT. |
| | ELEVATION 'B' | 47 | SQ. FT. |
| | ELEVATION 'C' | 49 | SQ. FT. |
| | ELEVATION 'D' | 147 | SQ. FT. |
| PATIO AREA(S) | | | |
| | IO'XIO' COVERED | 100 | SQ. FT. |
| | IO'x2O' COVERED | 200 | SQ. FT. |
| | PLATE NOTE | S | 2018 N.GR |
| | 8'-1" PLATE NO | TES | |
| 2nd FLOOR I ENTRY DOOF SLIDING GLA | SS DOOR HEIGHT: PEFIT HEIGHT: | 6'-8" U.N.C 7'-0" U.N.C 6'-8" U.N.C 6'-8" (TEM 7'-4" U.N.C 6'-8" U.N.C | P.) |
| | 9'-1" PLATE NO | TES | |
| 4010 WINDON ENTRY DOOF SLIDING GLA | SS DOOR HEIGHT: PEFIT HEIGHT: G: | 7'-8" U.N.O 8'-4" U.N.O 6'-8" U.N.O 6'-8" (TEM 8'-0" U.N.O 714" DROP 6'-8" U.N.O | P.) D. |
| | STAIR DATA NO | OTES | |

STAIR DATA NOTES

FIRST FLOOR WITH \$-1" PLATE HEIGHT:

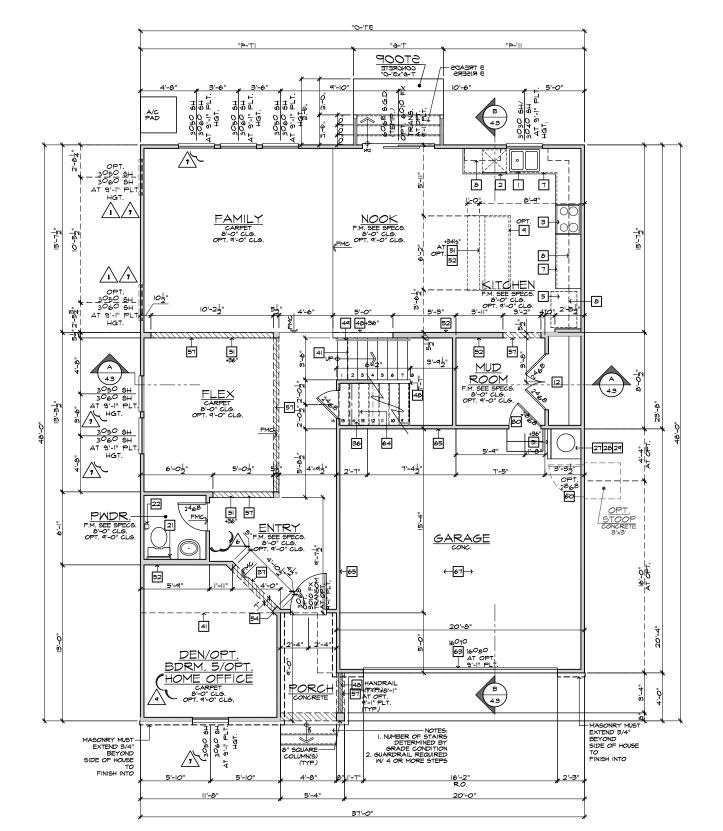
FIRST FLOOR WITH 9-1" PLATE HEIGHT:
14" DEEP T.J.I. FLOOR JOISTS WITH 3/4" T&G DECKING. 15 TREADS AT 10" EACH 16 RISERS AT 7-3/4" EACH

GENERAL PLAN NOTES

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

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

ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE I 3/4" THICK (REFER TO PLAN FOR SIZE). ALL FLOOR MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR JAMBS, UNO.



NOTE: NOT ALL KEY NOTES APPLY.

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

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

FLOOR PLAN NOTES

SLIDE-IN RANGE/OVEN COMBINATION W/ BUILT-IN VENTED HOOD W/LIGHT & FAN. OR MICRO/HOOD COMBO - SEE SPECS 30" COOKTOP W/ BUILT-IN VENTED HOOD W/ LIGHT & FAN VERIFY MITH MANUFRS' SPECS

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6. UPPER CABINETS - REFER TO INTERIOR ELEVATIONS

ISLAND CABINET - REFER TO INTERIOR ELEVATIONS

IO. MIN. 12" BAR TOP/ BREAKFAST BAR

II. DESK AREA - REFER TO INTERIOR ELEVATIONS
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23. RESERVED

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

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45. LINE OF RIDGE AT OPTIONAL VOLUME CEILING

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

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

58. ARCHED SOFFIT - SEE ELEV. FOR HGT. 59. WINDOW SEAT

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70. EGRESS MINDOW

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

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

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17. CONCRETE SLAB. SLOPE I/4" PER FT. MIN. SEE PLAN FOR SIZE. 78. 1/2" PRELIM. GYB. BD. BEHIND TUB/SHOWER (TO MEET STC) 79. SLOPING LOW WALL 38" ABOVE ADJACENT TREADS

80. 20 MIN. FIRE-RATED DOOR

HOME

NORTH CAROLINA

40' SERIES

KB HOME

NORTH CAROLINA DIVISION

4506 S. MIAMI BLVD.

SUITE 180

DURHAM, NC 27703

TEL: (919) 768-7980 m FAX: (919) 544-2928

ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56 DIVISION MGR.: REVISIONS:

DIVISION REVISIONS
NCISCINCP: 2/27/19 CTD

2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD DIVISION REVISIONS NCI9052NCP- 08/02/18 FAR

DIVISION REVISIONS NC20017NCP: 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

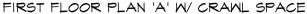
HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM

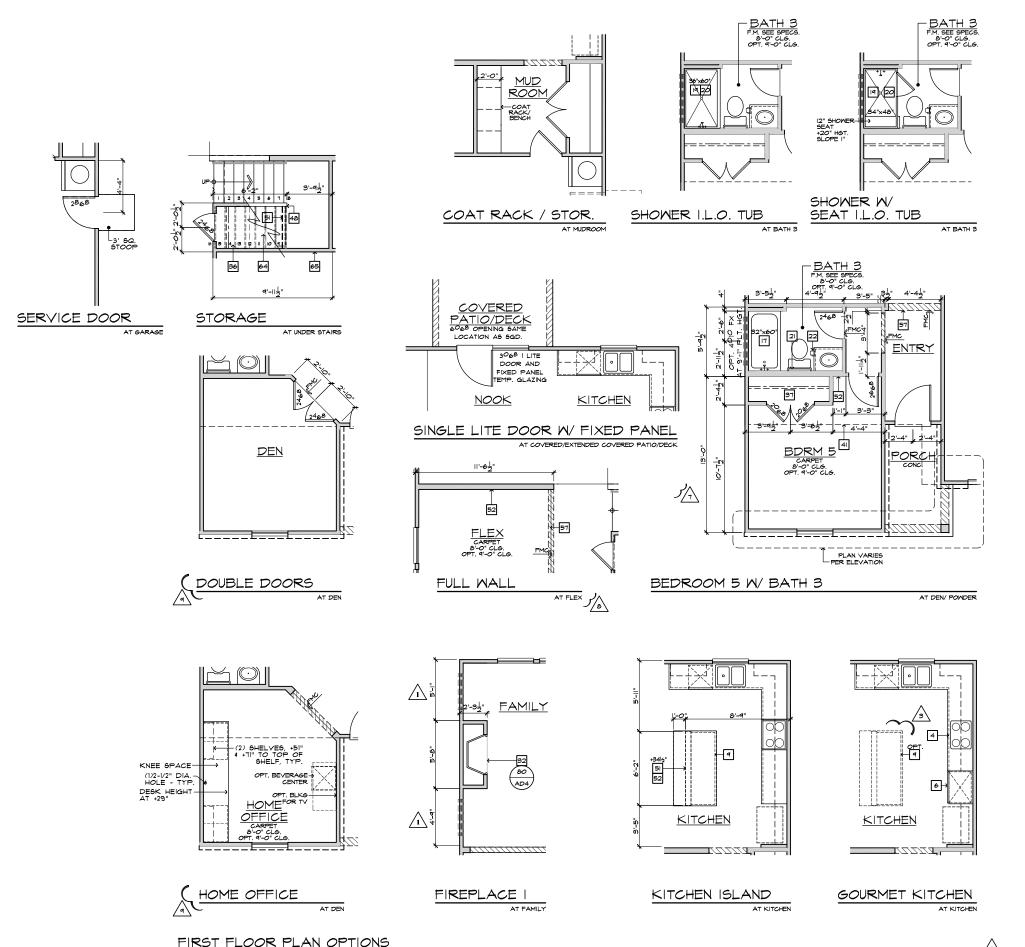
DIVISION REVISION NC21057NCP - 10/25/21 - KBA

237.2723-R 1.3

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES



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

FLOOR PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY. SINK - GARBAGE DISPOSAL OPTIONAL - VERIFY DIMENSIONS
WITH MANUFACTURERS' SPECS DISHWASHER - PROVIDE AIR GAP - VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS SLIDE-IN RANGE/OVEN COMBINATION W/ BUILT-IN VENTED HOOD W/LIGHT & FAN, OR MICRO/HOOD COMBO - SEE SPECS 30" COOKTOP W BUILT-IN VENTED HOOD W LIGHT & FAN VERIFY WITH MANUFRS' SPECS HOME YENT! WITH FUNDING STELLS

90" CLEAR REFRIGERATOR SPACE W OPTIONAL CABINETS
ABOVE - OPT. PLUMBING FOR ICEMAKER (RECESSED IN WALL)
COMBINATION DOUBLE OVEN OR OVEN MICROMAVE OVEN OR
OVEN VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS BASE CABINETS - REFER TO INTERIOR ELEVATIONS 6. UPPER CABINETS - REFER TO INTERIOR ELEVATIONS



NORTH CAROLINA 40' SERIES

кв номе NORTH CAROLINA DIVISION

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

FAX: (919) 544-2928

ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56

DIVISION REVISIONS NCI9011NCP: 2/27/19 CTD

2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAR

7 DIVISION REVISIONS NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM

DIVISION REVISION NC2105/NCP - 10/25/21 - KBA

DIVISION MGR.:

REVISIONS:

38, 22"X30" MIN. ATTIC ACCESS 25"X54" PULL DOWN LADDER R.O. ATTIC ACCESS TO BE PROTECTED 39. LINE OF WALL BELOW 40. DUCT CHASE/VOID SPACE - 1/2" GYP. BD. AT CLG. FIRE BLKG

ISLAND CABINET - REFER TO INTERIOR ELEVATIONS

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

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

21. TOWEL BAR - PROVIDE 2x SOLID BLK'G IN WALL

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

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

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

34. GAS APPLIANCE 'B' VENT FROM BELOW

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

23. RESERVED

31. RESERVED

25. 12" SHELF PER SPECS

13. SINK CABINET(S) - REFER TO INTERIOR ELEVATIONS 14. SINK CABINET W EXTENDED VANITY & KNEE SPACE BELOW REFER TO INTERIOR ELEVATIONS

PRE-FAB. TUB/SHOWER COMBO W/ FIBERGLASS WAINSCOT TO 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS 18. OVAL TUB - VERIFY DIMENSIONS WITH MANUFR'S SPECS. 19. PRE-FAB, SHOWER PAN W 30" MIN, CLR. INSIDE & WAINSCOT TO 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS

20. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE.

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

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

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

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

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

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

36. COAT CLOSET W SHELF & POLE (REFER TO DETAILTS/AD4) 37. WARDROBE W/ SHELF & POLE (REFER TO DETAIL13/AD4)

IO. MIN. 12" BAR TOP/ BREAKFAST BAR

4I. LINE OF FLOOR ABOVE

43. LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL 92/AD5) 44. LINE OF HIP AT OPTIONAL VOLUME CEILING

45. LINE OF RIDGE AT OPTIONAL VOLUME CEILING

46. CEILING BREAK

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

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

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

50. A/C PAD LOCATION
50AA/C LINESET LOCATION
51. LOW MALL - REFER TO PLAN FOR HEIGHT
52. 2x6 STUD WALL
53. 2x6 BALLOON FRAMED WALL PER STRUCTURAL 54. DBL. 2x4 WALL PER PLAN
55. INTERIOR SHELF-SEE PLAN FOR HT.

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

58. ARCHED SOFFIT - SEE ELEV. FOR HGT. 59. WINDOW SEAT

60. OPT. DOOR/ WINDOW

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

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

63. SECTIONAL GARAGE DOOR PER SPECS

64. MIN. 1/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR.

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

66. OPT. MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL 86/AD5) 67. 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR AB 68. P.T. POST W WRAP

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

70. EGRESS MINDOW

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

73. PLUMBING DROP FROM ABOVE

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

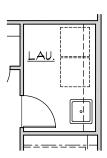
76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

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

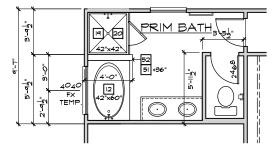
78. I/2" PRELIM. GYB. BD. BEHIND TUB/SHOWER (TO MEET STC) 79. SLOPING LOW WALL 38" ABOVE ADJACENT TREADS

80. 20 MIN. FIRE-RATED DOOR

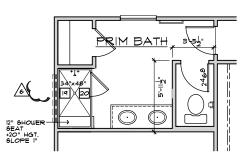
237.2723-R SHEET: 1.4







SUPER PRIM BATH



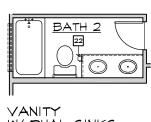
DELUXE PRIM BATH





SHOWER

SHOWER I.L.O. TUB



W/ DUAL SINKS

SECOND FLOOR PLAN OPTIONS

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

BASIC PLAN

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FLOOR PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

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

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

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

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

5. 34" CLEAR REFRIGERATOR SPACE W OPTIONAL CABINETS ABOVE - OPT. PLUMBING FOR ICEMAKER (RECESSED IN WALL)
6. COMBINATION DOUBLE OVEN OR OVEN WICROWAVE OVEN OR OVEN VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS

. BASE CABINETS - REFER TO INTERIOR ELEVATIONS

8. UPPER CABINETS - REFER TO INTERIOR ELEVATIONS

9. ISLAND CABINET - REFER TO INTERIOR ELEVATIONS

IO. MIN. 12" BAR TOP/ BREAKFAST BAR

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

13. SINK CABINET(S) - REFER TO INTERIOR ELEVATIONS 14. SINK CABINET W EXTENDED VANITY & KNEE SPACE BELOW REFER TO INTERIOR ELEVATIONS

15. OPT. SINK - REFER TO INTERIOR ELEVATIONS.16. KNEE SPACE - REFER TO INTERIOR ELEVATIONS 17. PRE-FAB, TUB/SHOWER COMBO W/ FIBERGLASS WAINSCOT TO 72" - VERIFY DIMENSIONS W/ MANUF'S SPECS

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

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

20. SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE. 21. TOWEL BAR - PROVIDE 2x SOLID BLK'G IN WALL

22. TOILET PAPER HOLDER - PROVIDE 2x SOLID BLK'G IN WALL 23. RESERVED

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

25. 12" SHELF PER SPECS

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

27. WATER HEATER LOCATION: - FOR GAS - LOCATE ON 18" HIGH PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN & DRAIN. (REFER TO 15/AD4) 28. R.A.G. LOCATION (SEE HVAC PLAN)

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

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

31. RESERVED

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

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38, 22"X30" MIN. ATTIC ACCESS 25"X54" PULL DOWN LADDER R.O. ATTIC ACCESS TO BE PROTECTED

39. LINE OF WALL BELOW

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

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

44. LINE OF HIP AT OPTIONAL VOLUME CEILING

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

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

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

73. PLUMBING DROP FROM ABOVE

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

76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

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

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

80. 20 MIN. FIRE-RATED DOOR





NORTH CAROLINA 40' SERIES

кв номе NORTH CAROLINA DIVISION

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

ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56

DIVISION MGR.: REVISIONS:

DIVISION REVISIONS NCI9011NCP: 2/27/19 CTD

2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD DIVISION REVISIONS NCI9052NCP- 08/02/18 PAR

DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

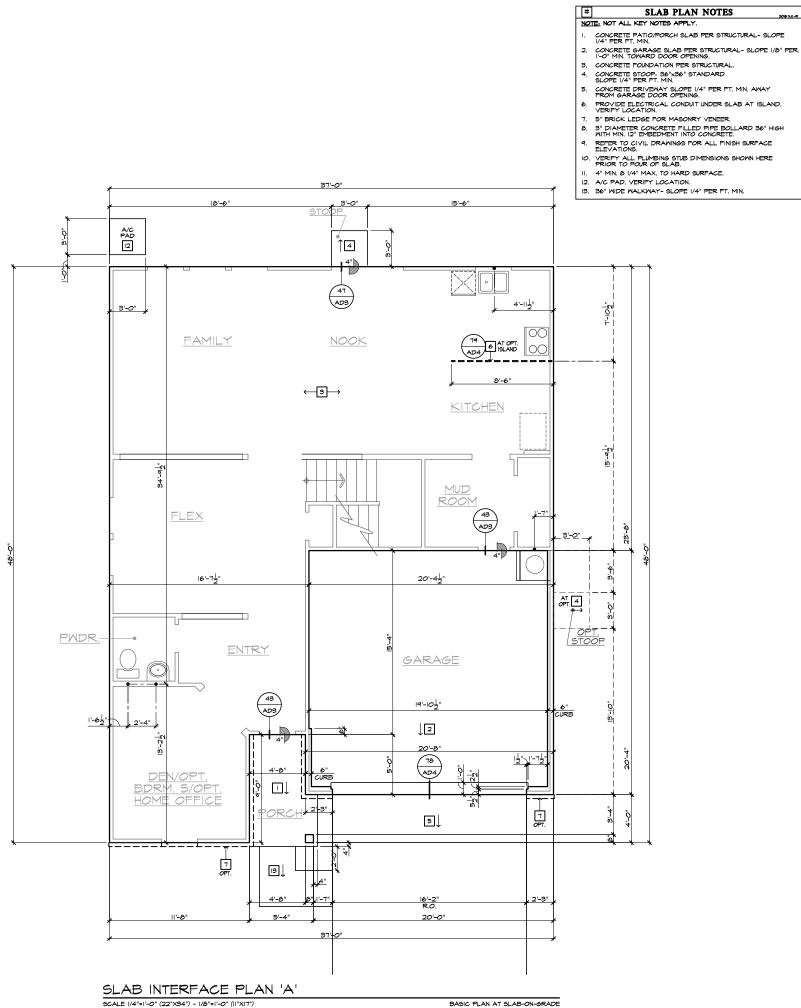
HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION NC2105/NCP - 10/25/21 - KBA



237.2723-R SHEET: 1.5



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

HOME

NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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HOME OFFICE CORP20003CORP-08/20/20-CTD

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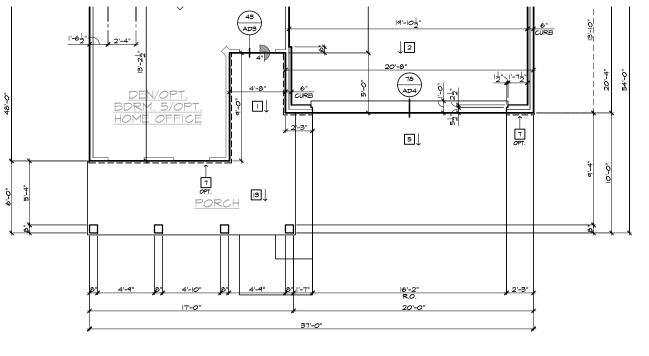
DIVISION REVISION

11 NC21057NCP - RV25721 - KBA

237.2723-R

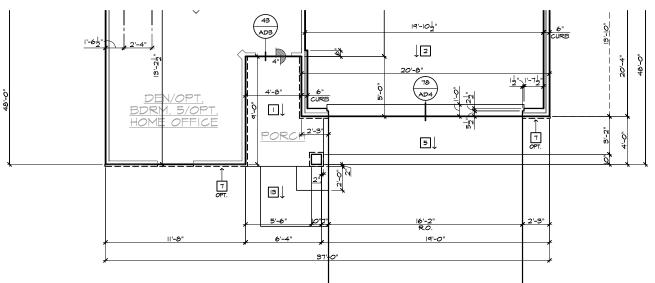
2.1 SPEC. LEVEL 1

RALEIGH-DURHAM 40' SERIES



PARTIAL SLAB INTERFACE PLAN 'D'

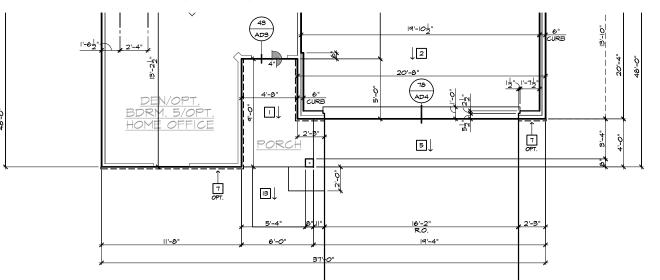
BASIC PLAN AT SLAB-ON-GRADE



PARTIAL SLAB INTERFACE PLAN 'C'

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

BASIC PLAN AT SLAB-ON-GRADE



PARTIAL SLAB INTERFACE PLAN 'B'

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

BASIC PLAN AT SLAB-ON-GRADE

SLAB PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

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

- CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN.
- 5. CONCRETE DRIVEWAY SLOPE I/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
- 6. PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.
 - 5" BRICK LEDGE FOR MASONRY VENEER.
- 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
- REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
- VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.
- II. 4" MIN. 8 I/4" MAX. TO HARD SURFACE.
 I2. A/C PAD. VERIFY LOCATION.
- 13. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

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DIVISION MGR.: REVISIONS:

DIVISION REVISIONS
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DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

9 HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION

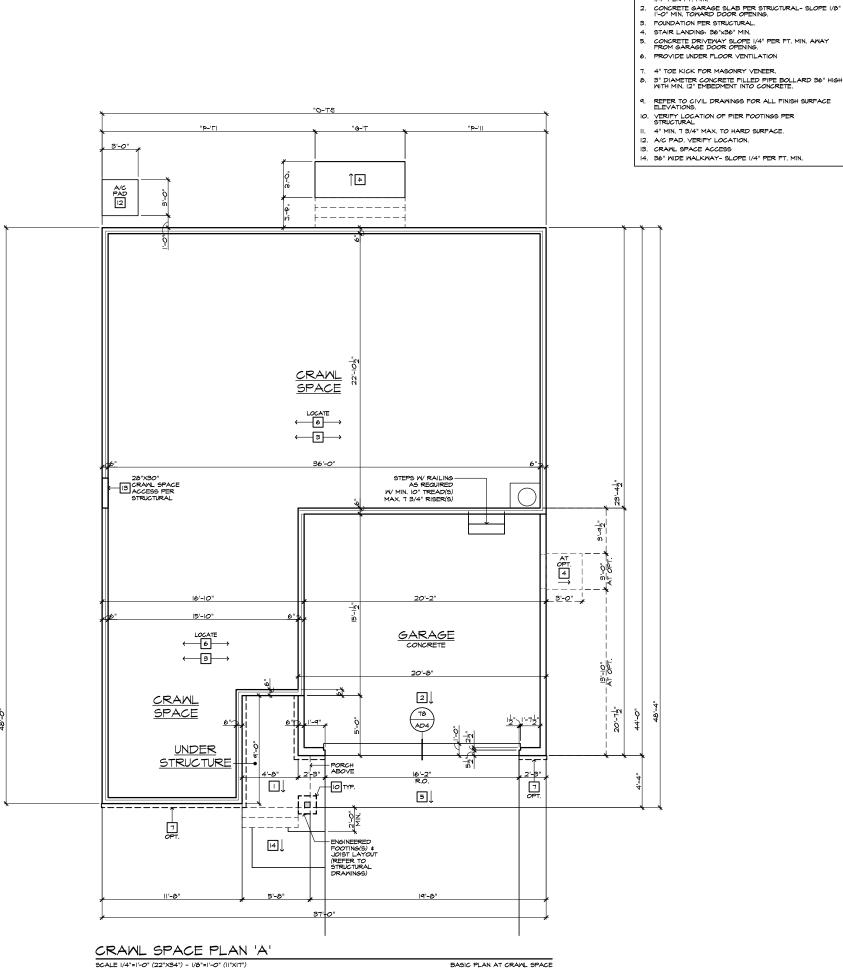
11 NC2105/NCF - 16/25/21 - KBA

237.2723-R

SHEET: 2.2

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

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



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

FOUNDATION PLAN NOTES

kb HOME



NORTH CAROLINA 40' SERIES

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DIVISION REVISIONS NCI9052NCP- 08/02/18 FAE DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

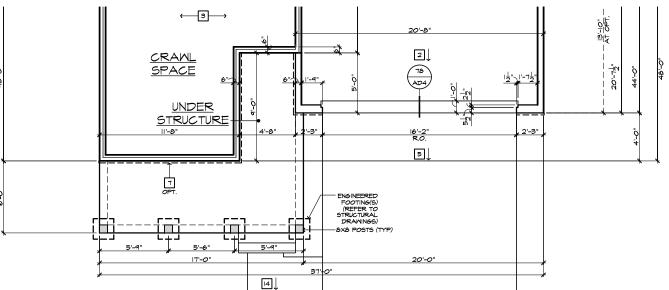
ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION



237.2723-R SHEET:

2.3



FOUNDATION PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY.

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

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE I/6" PER I'-0" MIN. TOWARD DOOR OPENING.

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

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

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

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL

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

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

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





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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REVISIONS:

DIVISION REVISIONS NC19052NCP- 08/02/18 FAE

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

9 HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION

11 NC21057NCF - 10/25/21 - KBA

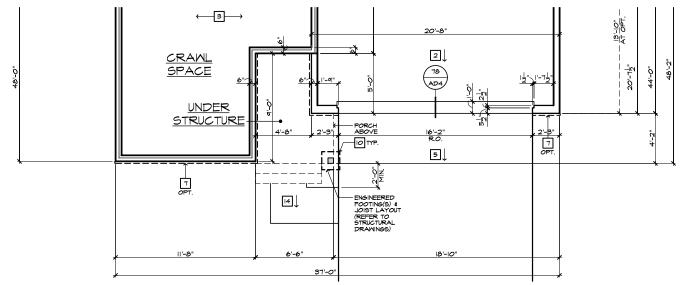
237.2723-R SHEET: 2.4

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

PARTIAL CRAWL SPACE PLAN 'D'

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

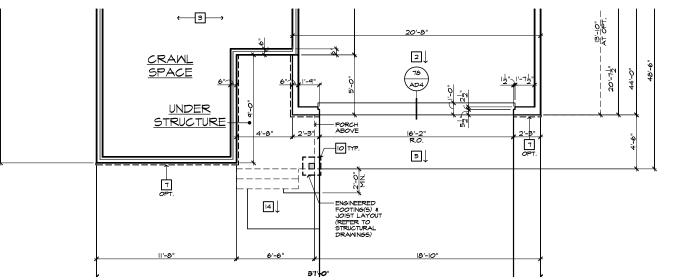
BASIC PLAN AT CRAWL SPACE



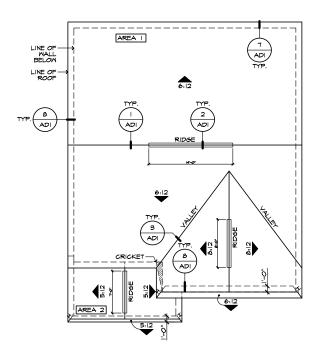
PARTIAL CRAWL SPACE PLAN 'C'

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

BASIC PLAN AT CRAWL SPACE

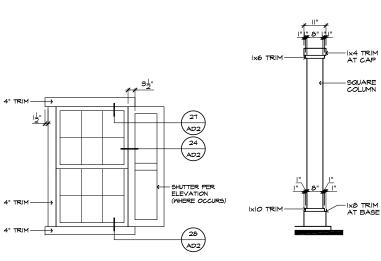


PARTIAL CRAWL SPACE PLAN 'B'



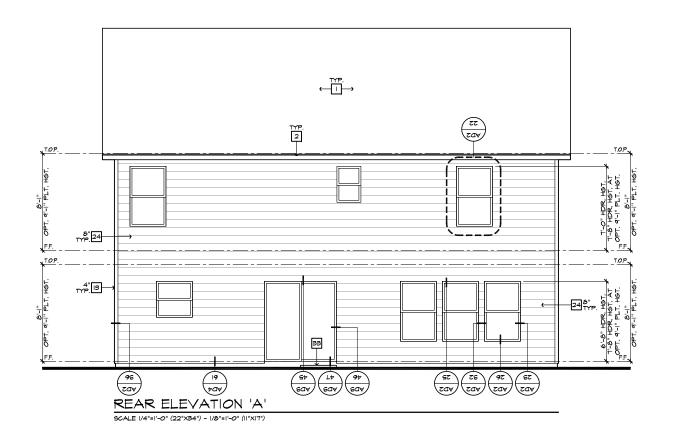
ROOF PLAN 'A'

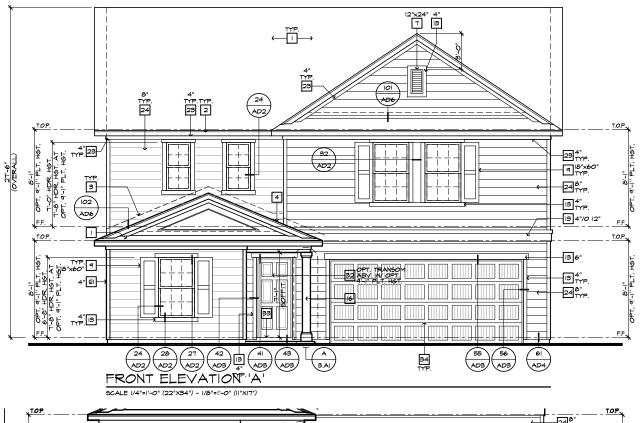
SCALE I/8"=I'-0" (22"X34") - I/I6"=I'-0" (II"XI7")

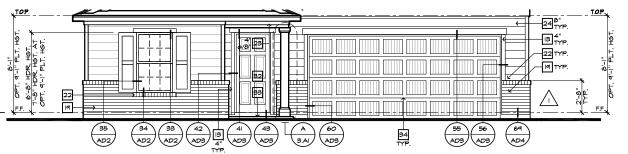


DETAIL 'B'

DETAIL 'A'







ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES

2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

3. G.I. FLASHING

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

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL 9. DECORATIVE SHUTTERS

IO. PEDIMENT. SEE ELEVATION FOR TYPE

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

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

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

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

IT. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS

18. STONE VENEER PER SPECS

19. BRICK/MASONRY VENEER PER SPECS

21. SOLDIER COURSE

22. ROWLOCK COURSE

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

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

26. PRE-FAB DECORATIVE TRIM

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

29. FIBER-CEMENT SMOOTH BOARD SEE SPECS

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

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

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

34. SECTIONAL GARAGE DOOR PER SPECS

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

37. OPTIONAL STANDING SEAM METAL ROOF

38. KEYSTONE 39. SOLDIER CROWN

40. JACK SOLDIER COURSE 41. WATER TABLE

42. ATRIUM DOOR

43. PILASTER - SEE ELEVATION FOR TYPE

ROOF PLAN NOTES 'A'

ROOF MATERIAL: COMPOSITION SHINGLE

6:12

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

ATTIC VENT CALCULATIONS

PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC
SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF
THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS
LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING)
AT 3-0° ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED
BY EAVE VENTS, (LOW YENTING) (2018 NG.-R 306.2)
** CALCULATION BY (JISO, HIGH/LOW VENTING NOT REQUIRED,
APPROXIMATE RIDGE VENT LOCATIONS SHOWN,
ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

18 SQ. IN. / LF. = 396 SQ. IN 50 SQ. IN. EA. = 0 SQ. IN 396 SQ. IN LF RIDGE VENT(S) AT LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = ROOF VENT(S) AT 50 SQ. IN. EA. = O ROOF VENT(S) AT SUB-TOTAL LOW VENTILATION: 50. IN. EA. =

TOTAL VENTILATION PROVIDED: AREA 2 / PORCH: VENTILATION REQUIRED: ATTIC AREA = 142

 PROVIDED:
 LF VENTILATED SOFFIT AT
 6.9
 SQ. IN. / LF. =
 21 SQ. IN.

 LF RIDGE VENT(S) AT
 I8
 SQ. IN. EA. =
 126 SQ. IN.

 H4T 5Q. IN
 147 5Q. IN.

NOTES:

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

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





NORTH CAROLINA 40' SERIES

кв номе NORTH CAROLINA DIVISION

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

FAX: (919) 544-2928

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

02/23/17 ISSUE DATE: PROJECT No.: 1350999:56 DIVISION MGR.: DIVISION REVISIONS NCISOIINCP- 2/27/19 CTD

782 SQ. IN.

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAR

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

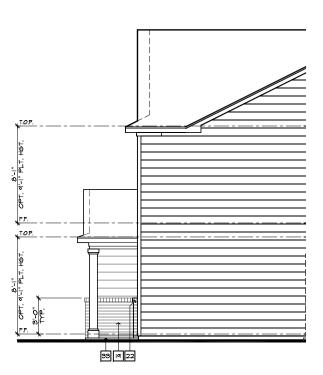
ADD DECKS & SUNROOM DIVISION REVISION NC21057NCP - 10/25/21 - KBA

237.2723-R

3.A1

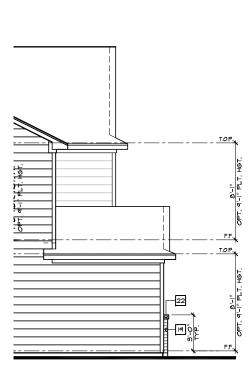
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

PARTIAL FRONT ELEVATION 'A' W/ MASONRY OPTION



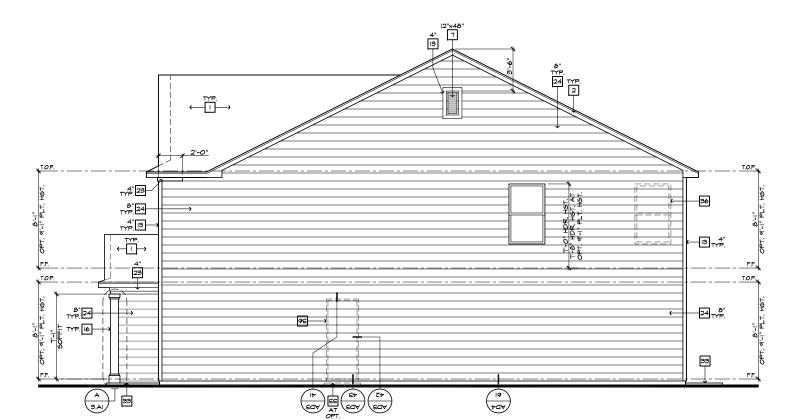
PARTIAL RIGHT ELEVATION 'A' W/ MASONRY OPTION

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



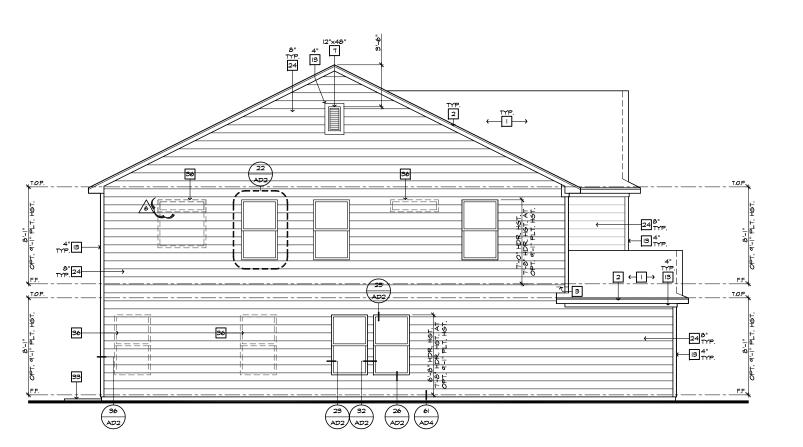
PARTIAL LEFT ELEVATION 'A' W/ MASONRY OPTION

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



RIGHT ELEVATION 'A'

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



LEFT ELEVATION 'A'

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES

2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

3. G.I. FLASHING

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

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL

II. RECESSED ELEMENT

9. DECORATIVE SHUTTERS

IO. PEDIMENT. SEE ELEVATION FOR TYPE

12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE

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

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

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

17. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS

STONE VENEER PER SPECS
 BRICK/MASONRY VENEER PER SPECS

20. BUILT UP BRICK COLUMN

21. SOLDIER COURSE

22. ROWLOCK COURSE

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

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

27. LIGHT WEIGHT PRECAST STONE TRIM

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

29. FIBER-CEMENT SMOOTH BOARD SEE SPECS

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

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

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

34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP

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

38. KEYSTONE 39. SOLDIER CROWN

40. JACK SOLDIER COURSE 41. WATER TABLE

43. PILASTER - SEE ELEVATION FOR TYPE

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

ISSUE DATE: 02/23/17 ■ PROJECT No.: 1350999:56 ■

DIVISION MGR.: REVISIONS:

DIVISION REVISIONS NCI90IINCP: 2/27/19 CTD

DIVISION REVISIONS NC19052NCP- 08/02/18 FAE

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

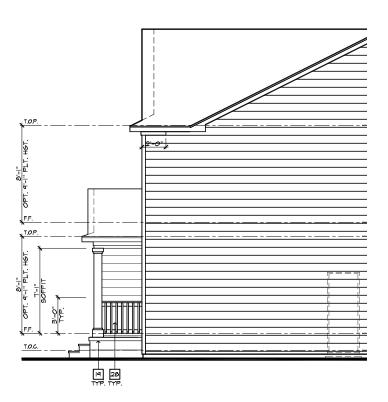
ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD DIVISION REVISION

11 NC21057NCT - 10/25/21 - KBA

237.2723-R

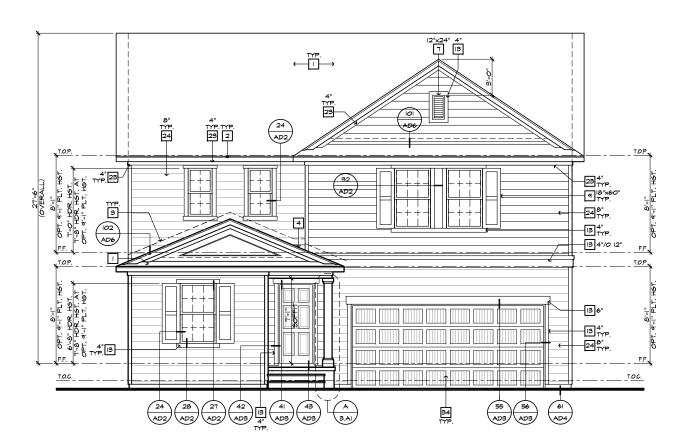
SPEC. LEVEL 1 RALEIGH-DURHAM

3.A2



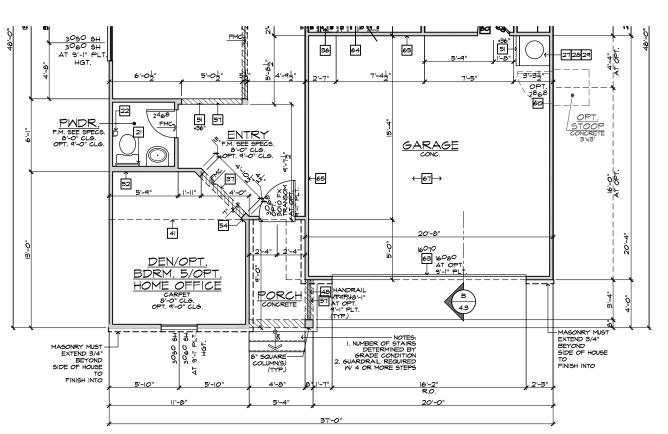
PARTIAL RIGHT ELEVATION 'A' W/ CRAWL SPACE

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



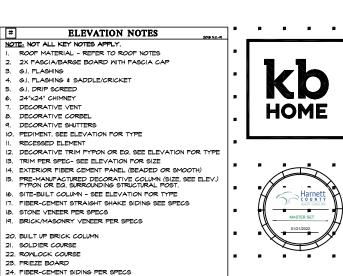
FRONT ELEVATION 'A' W/ CRAWL SPACE

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



PARTIAL FIRST FLOOR PLAN 'A' W/ CRAWL SPACE

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



NORTH CAROLINA 40' SERIES

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43. PILASTER - SEE ELEVATION FOR TYPE

PARTIAL PLAN NO PARTIAL PLAN NOTES

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

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

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

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

29. FIBER-CEMENT SMOOTH BOARD SEE SPECS

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

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN

40. JACK SOLDIER COURSE 4I. WATER TABLE 42. ATRIUM DOOR

27. LIGHT WEIGHT PRECAST STONE TRIM

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

PARTIAL PLAN NOTES

***DOTE: NOT ALL KEY NOTES APPLY
27. MATTER HEATER LOCATION: - FOR GAS - LOCATE ON 10° HIGH
PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4
PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4
PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4
PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4
PLATFORM - FOR INTERIOR SHEEP

28. MATER HEATER 18 VENT TO OUTSIDE AIR
29. MAIN LINE SHIT-OFF VALVE AND TEMP. 4 PRESSURE RELIEF

39. LINE OF RADOVE
41. LINE OF FLOOR BELOW
41. LINE OF FLOOR BELOW
41. LINE OF FLOOR BELOW
42. LINE OF FLOOR BELOW
43. LINE OF FLOOR BELOW
43. LINE OF FLOOR BELOW
45. MIN SETTION OF PLAN FOR HEIGHT
55. LOW WALL - REFER TO PLAN FOR HEIGHT
57. FLAT SOFFIT
60. OF THE SOFFIT
60. OF LOOR SHIPPOWER OF THE VENETR - REFER TO PLAN FOR HEIGHT
57. FLAT SOFFIT
60. OF LOOR MINDOW
60. FLOOR SECUL SURROUNDING STRUCTURAL POST.
62. BRICK / STONE VENEER - REFER TO ELEVATIONS
63. SECTIONAL GARAGE DOOR PER SPECS
66. 3° DIAM CONCRETE FILLED PIPE BOLLARD 36° HIGH WITH
MIN IZ * EMBEDDIENT INTO CONCRETE.
NOT REQUIRED AT ELECTRIC WATER HEATERS OF FOR APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL
FOR THE STANKAP.
69. ETCS INNOW
70. EIGHTS INNOW
71. EIGHTS INNOW
72. EIGHTS INNOW
73. MINDON LEDGE, HEIGHT & MIDTH OF OPENING TO EXTEND 6°
BEYOND MINDOWS) ON ALL SIDES UND.
74. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
75. CONCRETE SLAB. SLOPE I/4° PER FT. MIN. SEE PLAN FOR
SIZE

ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56 DIVISION MGR.:

DIVISION REVISIONS NCI90IINCP- 2/27/19 CTD

E S 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAE DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21619NCP-04/05/21-CTD

DIVISION REVISION

11 NC21057NCP - 10/25/21 - KBA

237.2723-R SHEET: 3.A3

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

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

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



NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 3. G.I. FLASHING 4. G.I. FLASHING & SADDLE/CRICKET
5. G.I. DRIP SCREED 6. 24"x24" CHIMNEY 7. DECORATIVE VENT

ELEVATION NOTES

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

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

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

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

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

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

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

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

43. PILASTER - SEE ELEVATION FOR TYPE

IT. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS

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

II. RECESSED ELEMENT

18. STONE VENEER PER SPECS

20. BUILT UP BRICK COLUMN

21. SOLDIER COURSE

22. ROWLOCK COURSE

35. ALUMINUM WRAP

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

42. ATRIUM DOOR

19. BRICK/MASONRY VENEER PER SPECS

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

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

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

02/23/17 ISSUE DATE: ■ PROJECT No.: 1350999:56 ■

DIVISION MGR.: REVISIONS: DIVISION REVISIONS NC1901INCP- 2/27/19 CTD

DIVISION REVISIONS NCI9052NCP: 08/02/18 PAR

DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION

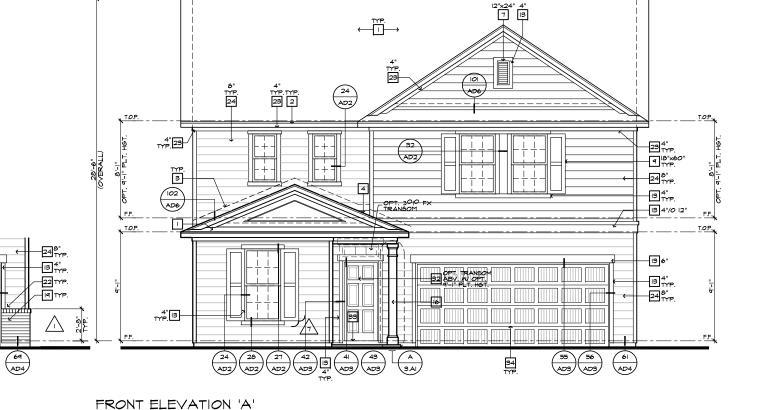
11 NC21057NCP - 10/25/21 - KBA

237.2723-R 3.A4

SPEC. LEVEL 1 RALEIGH-DURHAM

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

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



PARTIAL FRONT ELEVATION 'A' W/ MASONRY OPTION

55 56 AD3 AD3

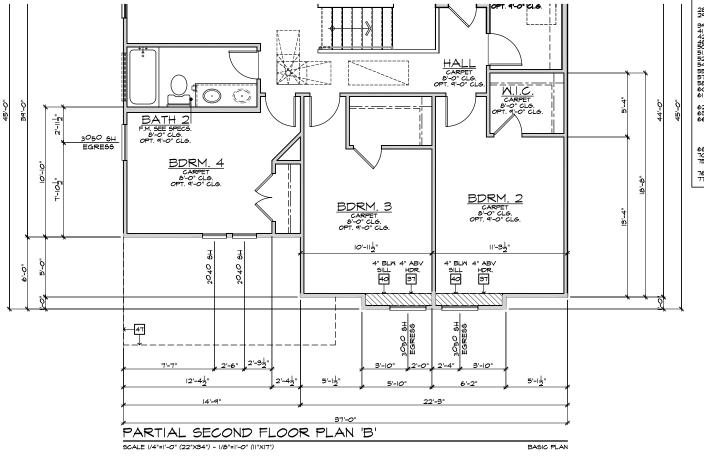
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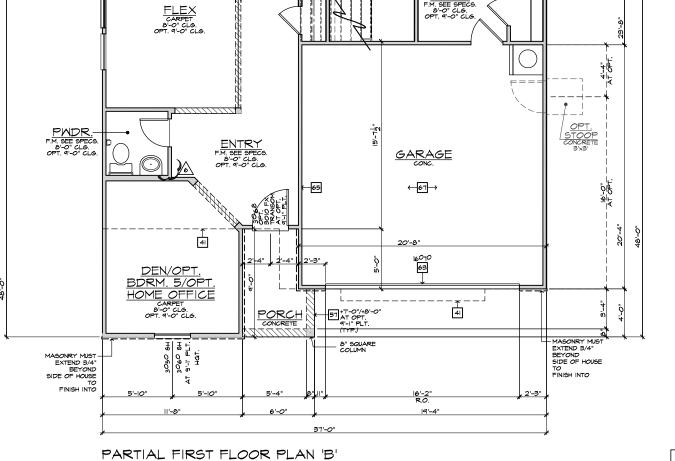
SCALE I/4"=1'-0" (22"X34") - I/8"=1'-0" (II"XIT")

AT OPTIONAL 9'-I" PLT. HGT.

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

19





BASIC PLAN

SCALE I/4"=1'-0" (22"×34") - I/8"=1'-0" (II"×I7")

PARTIAL PLAN NOTES

MOTE, NOT ALL KEY NOTES APPLY.

21. NATER HEATER SHOWLE FOR GAS - LOCATE ON 18" HIGH DRAIN, (REFER TO DETAILS).

22. NATER HEATER BY VENT TO OUTSIDE AIR.

23. MAILE LINE SHUT-OFF VALVE AND TEMP. 8 PRESSURE RELIEF

20. MATER HEATER B VENT TO OUTSIDE AIR
21. MAIN LINE SHUT-OFF VALVE AND TEMP. 8 PRESSURE RELIEF
VALVE
91. LINE OF MALL BELOW
41. LINE OF MALL BELOW
42. LINE OF MALL BELOW
43. LINE OF MALL BELOW
44. LINE OF MALL BELOW
45. MARCHARM REPER TO DETAIL SHEETS)
56. MAC PAD LOCATION
57. LOCATION
58. LOW MALL - REFER TO PLAN FOR HEIGHT
59. 2x6 STUD MALL
59. DEL 2x4 MALL PER PLAN
59. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT
51. PLAY MALL PER PLAN
55. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT
51. PLAY MALL PER PLAN
66. PTO POOR MINDOW
61. PRE-MANUFACTIRED DECORATIVE COLUMN (SIZE, SEE ELEV.)
67. PYPON OR EQ. SURROUNDING STERVEL POST.
68. SECTIONAL GARAGE DOOR PER SPECS
68. ST DIAM CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH
69. MIN. 21" EMBEDMENT INTO CONCRETE.
(NOT REQUIRED AT ELECTRIC MATER HEATERS OR FOR
APPLIANCES LOCATED OUT OF THE VEHICLES NORMAL
TRANSPORT
60. PERSON LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6"
61. STENDIAL FOLLOW.)
62. SICHON LEDGE. HEIGHT & WIDTH OF OPENING TO EXTEND 6"
63. PLAYLE PATH).
64. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
67. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR
61.

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

■ PROJECT No.: 1350999:56 ■ DIVISION MGR.: REVISIONS:

DIVISION REVISIONS NCI90IINCP- 2/27/19 CTD

E 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAE

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION

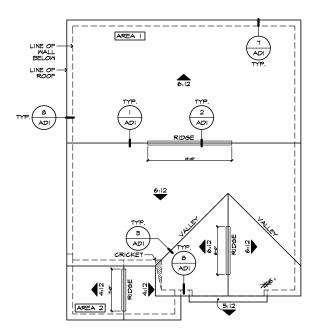
11 NC21037NCP - 10725/21 - KBA

237.2723-R SHEET:

3.B1

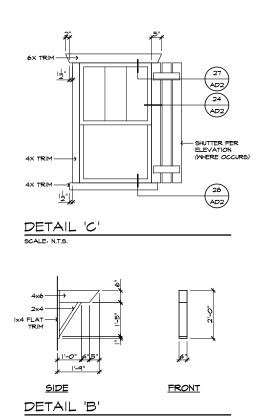
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

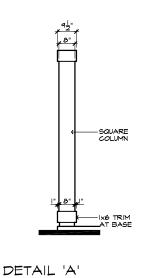
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

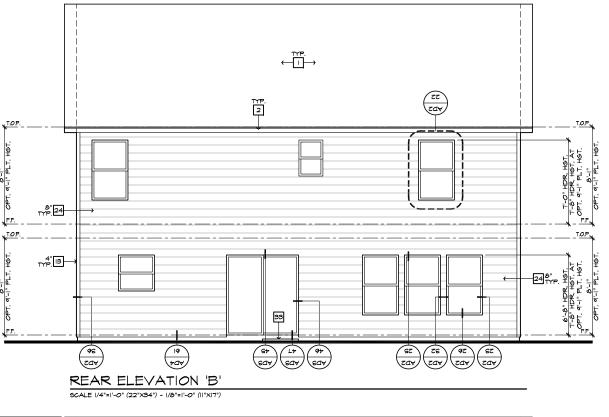


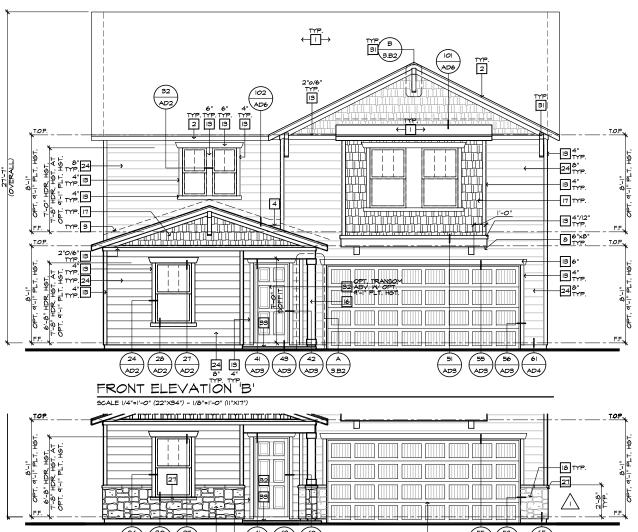
ROOF PLAN 'B'

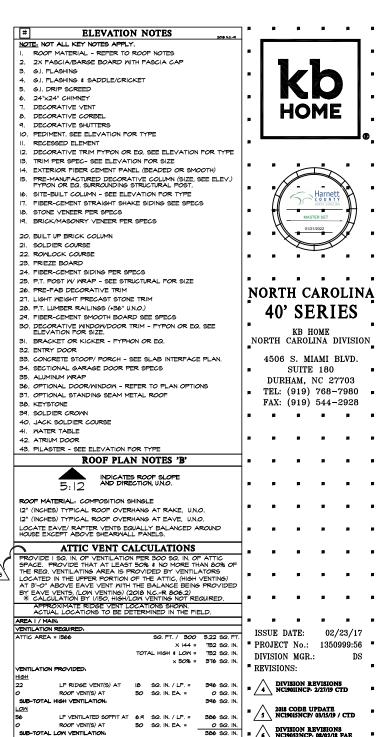
SCALE I/8"=1'-0" (22"X34") - I/I6"=1'-0" (II"XI7")











TOTAL VENTILATION PROVIDED

AREA 2 / PORCH:
VENTILATION REQUIRED:
ATTIC AREA = 142

NOTES:

DIVISION MGR.:

02/23/17

1350999:56

DIVISION REVISIONS NCI9011NCP- 2/27/19 CTD

DIVISION REVISIONS NCI9052NCP- 08/02/18 PAR

782 SQ. IN.

X 144 = 136 SQ. IN TOTAL HIGH & LOW = 136 SQ. IN

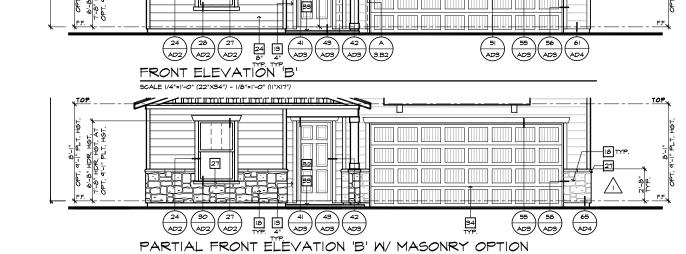
| FROVIDED: | LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = 21 SQ. IN. | LF. = 21 SQ. IN. | LF. = 126 SQ. IN. EA. = 126 SQ. IN. | L47 SQ. IN. | L48 SQ. IN. |

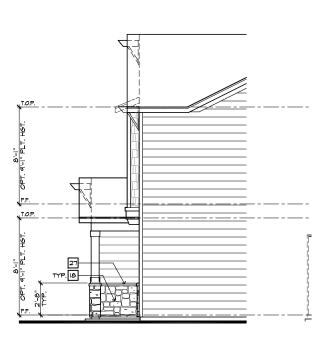
ALL VENT OPENINGS SHALL BE COVERED WITH 1/4" CORROSION RESISTANT METAL MESH. FRAMER SHALL BE RESPONSIBLE FOR COORDINATING WITH TRUSS MANUFACTURER TO ACCOMMODATE ALL ATTIC VENTS. ALL VENTS SHALL BE INSTALLED SO AS TO MAKE THEM WATER-PROOF & WALL MOUNTED LOUVERS SHALL BE SEALED & FLASHED W. MOISTOP, IN THE SAME MANNER PRESCRIBED FOR WINDOW REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

ADD DECKS & SUNROOM

DIVISION REVISION NC21057NCP - 10/25/21 - KBA

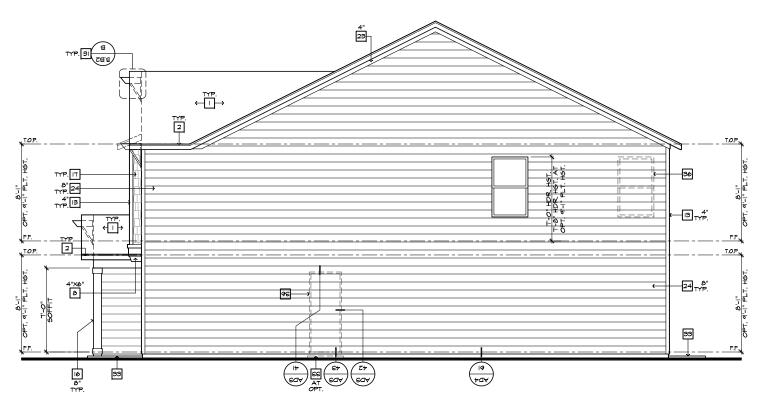
237.2723-R 3.**B**2





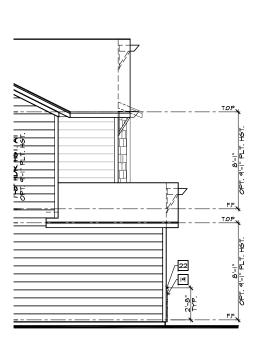
PARTIAL RIGHT ELEVATION 'B' W/ MASONRY OPTION

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



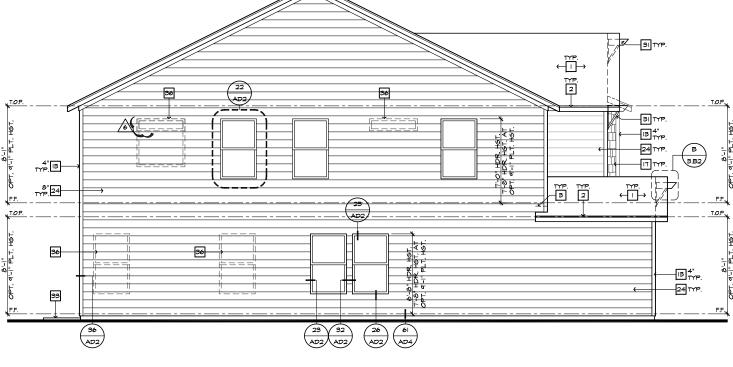
RIGHT ELEVATION 'B'

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



PARTIAL LEFT ELEVATION 'B' W/ MASONRY OPTION

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



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

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES

2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

3. G.I. FLASHING

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

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL

9. DECORATIVE SHUTTERS II. RECESSED ELEMENT

IO. PEDIMENT. SEE ELEVATION FOR TYPE

12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE

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

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

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

17. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS

STONE VENEER PER SPECS
 BRICK/MASONRY VENEER PER SPECS

21. SOLDIER COURSE

22. ROWLOCK COURSE

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

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

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

29. FIBER-CEMENT SMOOTH BOARD SEE SPECS

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

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

33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN. 34. SECTIONAL GARAGE DOOR PER SPECS

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

38. KEYSTONE 39. SOLDIER CROWN

40. JACK SOLDIER COURSE 41. WATER TABLE

43. PILASTER - SEE ELEVATION FOR TYPE

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

02/23/17 ISSUE DATE: ■ PROJECT No.: 1350999:56 ■

DIVISION MGR.: REVISIONS: DIVISION REVISIONS NCISCINCP- 2/27/19 CTD

DIVISION REVISIONS NC19052NCP- 08/02/18 FAE

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION

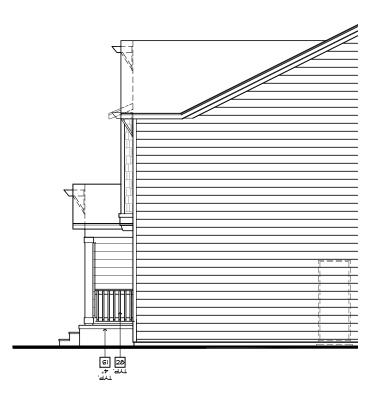
11 NC21057NCT - 10/25/21 - KBA

237.2723-R

SPEC. LEVEL 1

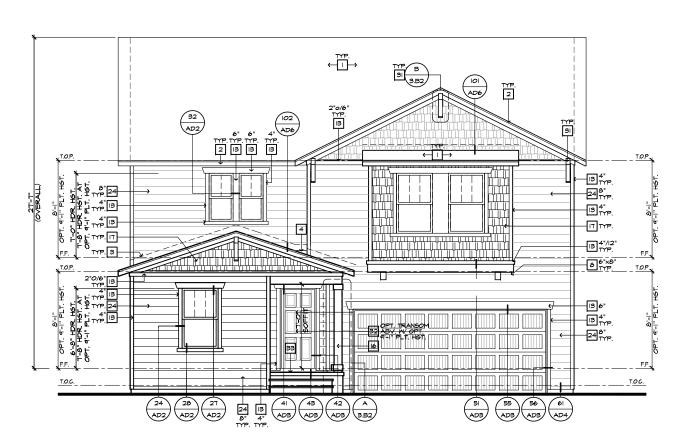
3.**B**3

RALEIGH-DURHAM



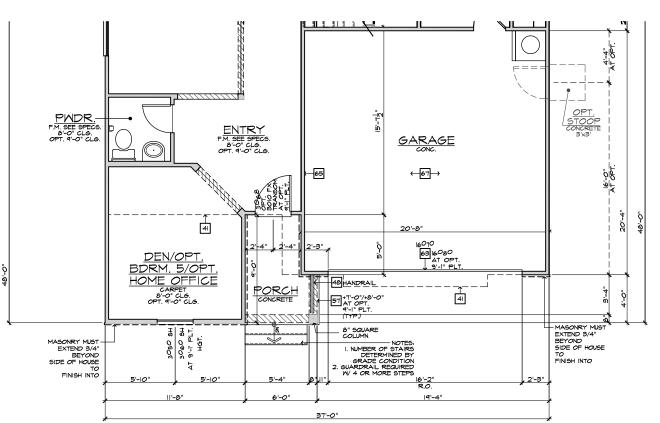
PARTIAL RIGHT ELEVATION 'B' W/ CRAWL SPACE

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



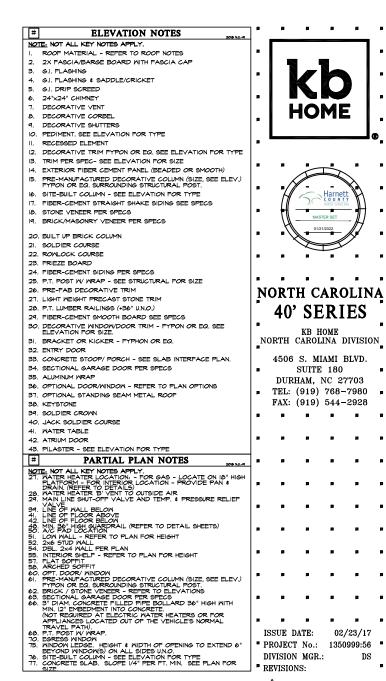
FRONT ELEVATION 'B' W/ CRAWL SPACE

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



PARTIAL FIRST FLOOR PLAN 'B' W/ CRAWL SPACE

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



DIVISION MGR.: DIVISION REVISIONS NCI90IINCP- 2/27/19 CTD

PROJECT No.: 1350999:56

ISSUE DATE:

02/23/17

m / 2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9052NCP: 08/02/18 PAR

DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION NC21037NCP - 10725/21 - KBA

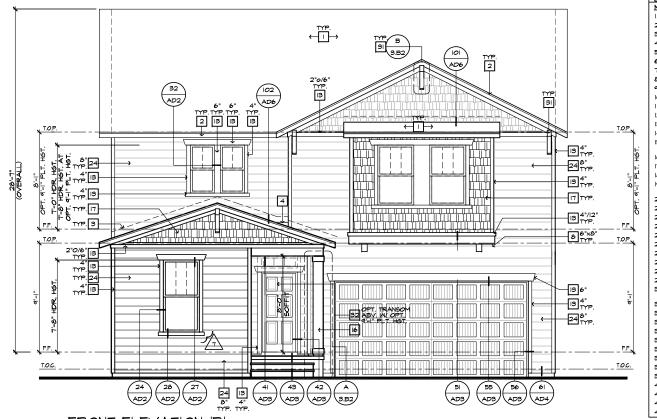
237.2723-R SHEET:

SPEC. LEVEL 1 RALEIGH-DURHAM

3.**B**4

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

NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE 40' SERIES



FRONT ELEVATION 'B' AT OPTIONAL 9'-I" PLT. HGT. W/ CRAWL SPACE SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XI7"

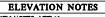
TYP. ←□→ AD6 TYP. 2"0/6" TYP. 6" 6" 4" AD6

TYP. TYP. TYP. TYP.

2 [3] [3] [3] TYP! \leftarrow -[3]⁴", 8"24 TYP. 24 TYP. 13 24 5" TYP 28'-1" VERALI -[13] 4" TYP. -4".[B]-TYP.[17]-_OPT. 3010 F; TRANSOM -[3] 4"/l2" TYP. TYP. 3 8 TYP. - I3 6" 13 4" TYP 24 TYP 33 51 55 56 61 AD3 AD3 AD4

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

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



- NOTE: NOT ALL KEY NOTES APPLY.

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

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

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

ISSUE DATE: PROJECT No.: 1350999:56 DIVISION MGR.:

DIVISION REVISIONS NCI90IINCP- 2/27/19 CTD

REVISIONS:

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAR

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

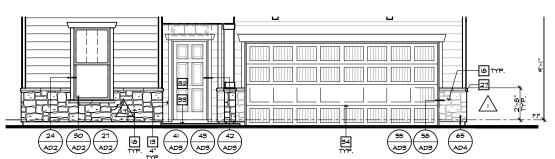
HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD DIVISION REVISION NC21057NCT - 10/25/21 - KBA

237.2723-R

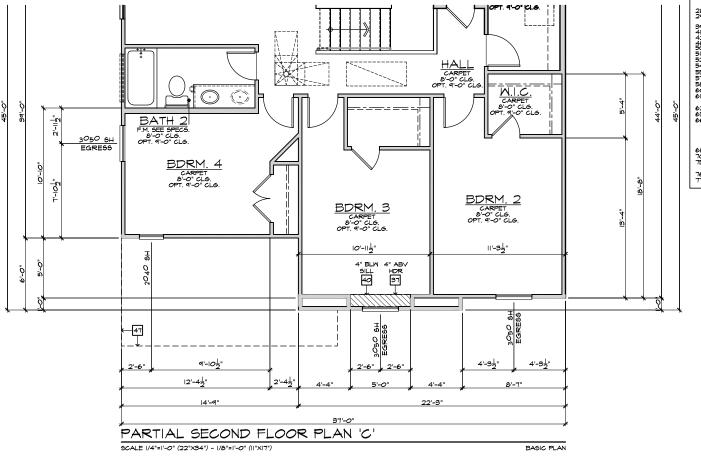
3.**B**5

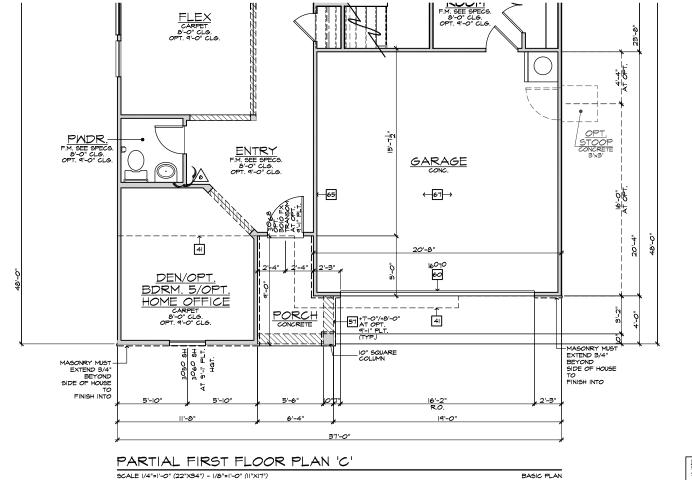
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES



PARTIAL FRONT ELEVATION 'B' W/ MASONRY OPTION

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





PARTIAL PLAN NOTES

MOTE, NOT ALL KEY NOTES APPLY.

21. NATER HEATER SHOWLE FOR GAS - LOCATE ON 18" HIGH DRAIN, (REFER TO DETAILS).

22. NATER HEATER BY VENT TO OUTSIDE AIR.

23. MAILE LINE SHUT-OFF VALVE AND TEMP. 8 PRESSURE RELIEF

DAMIN (RETER 19 YENT TO OUTSIDE AIR

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

94. LINE OF MALL BELOW

41. LINE OF FLOOR ABOVE

42. LINE OF FLOOR ABOVE

53. MIN 80 MINT SHUT SHUT SHUT SHEETS)

54. DRIL SHEET TO PLAN FOR HEIGHT

52. 2x6 STUD WALL

55. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT

56. ARCHED SOFTH

57. FLAT SOFFIT

58. ARCHED SOFTH

59. ARCHED SOFTH

60. OPT DOOR! MINDOW

61. PRESSURE RELIEFER TO PLAN FOR HEIGHT

51. FLAT SOFFIT

63. SECTIONAL GARAGE DOOR PER SPECS

63. STUDIAL GARAGE DOOR PER SPECS

63. STUDIAL CONCRETE FILLED PIEP BOLLARD 86" HIGH WITH

MIN 12" EMBEDMENT INTO CONCRETE.

(NOT REQUIRED AT ELECTRIC WATER HEATERS OR FOR

APPLIANCES LOCATED OUT OF THE VEHICLES NORMAL

TRANSPORT LEADER. HEIGHT & WIDTH OF OPENING TO EXTEND 6"

15. PRESS IN YEAP.

16. STEP BUILT COLUMN - SEE ELEVATION FOR

17. PEST SOUL SEED.

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

■ PROJECT No.: 1350999:56 ■ DIVISION MGR.:

REVISIONS: DIVISION REVISIONS NCI90IINCP- 2/27/19 CTD

E 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAE

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

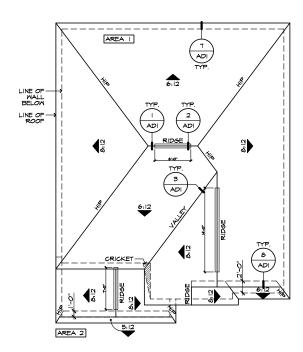
DIVISION REVISION

11 NC21037NCP - 10725/21 - KBA

237.2723-R SHEET: 3.C1

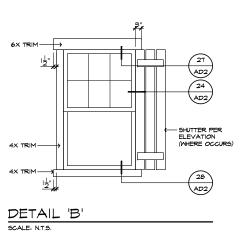
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

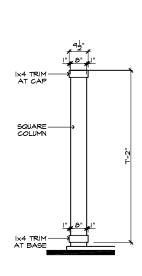
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE



ROOF PLAN 'C'

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

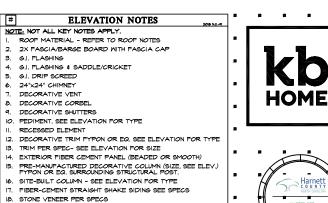




DETAIL 'A'









NORTH CAROLINA 40' SERIES

кв номе NORTH CAROLINA DIVISION

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

40. JACK SOLDIER COURSE 41. WATER TABLE 42. ATRIUM DOOR 43. PILASTER - SEE ELEVATION FOR TYPE

ROOF PLAN NOTES 'C'

19. BRICK/MASONRY VENEER PER SPECS

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

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

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

34. SECTIONAL GARAGE DOOR PER SPECS

26. PRE-FAB DECORATIVE TRIM

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

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

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

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

21. SOLDIER COURSE

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN

22. ROWLOCK COURSE

6:12 ROOF MATERIAL: COMPOSITION SHINGLE

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

ATTIC VENT CALCULATIONS

PROVIDE I SO, IN, OF VENTILATION PER 300 30, IN, OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% 4 NO MORE THAN 80% OF THE REO. VENTILATING AREA IS PROVIDED BY VENTILATINGS AT LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING) AT 3'-0' ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED BY EAVE VENTS, (LOW VENTING) (2018 N.C.-R 306.2)

**CALCULATION BY (1/50, HIGH/LOW VENTING NOT REQUIRED, APPROXIMATE RIDGE VENT LOCATIONS SHOWN, ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

| VENTILAT | ION REQUIRED: | | | |
|-----------|-------------------------|-----|-----------------|--------------------|
| ATTIC AR | EA = 1570 | | 50, FT. / 500 | 5.25 SQ. F |
| | | | | 754 SQ II |
| | | тот | AL HIGH & LOW = | |
| | | | | 377 SQ. II |
| VENTII AT | ION PROVIDED: | | A 3070 - | 011 50 |
| HIGH | ION I NO VIDED. | | | |
| 20 | LF RIDGE VENT(S) AT | ıa | 60 IN / I E = | 860 60 1 |
| | ROOF VENT(S) AT | | 50. IN. EA. = | 50 SQ. II |
| | FAL HIGH VENTILATION: | 50 | 50. IN. EA | 410 SQ. 11 |
| LOM | AL HIGH VENTILATION | | | 410 50. 11 |
| 56 | | | | " |
| | LF VENTILATED SOFFIT AT | | | |
| 0 | ROOF VENT(S) AT | 50 | 5Q. IN. EA. = | <i>o</i> 50. 11 |
| SUB-TO1 | FAL LOW VENTILATION: | | | 386 SQ. 11 |
| TOTAL V | ENTILATION PROVIDED: | | | 796 SQ. 11 |
| AREA 2 / | PORCH: | | | |
| VENTILAT | ION REQUIRED: | | | |
| ATTIC AR | EA = 142 | | 50. FT. / 150 | 0.95 SQ. F |
| | | | × 144 = | 1 36 50. 11 |
| | | TOT | AL HIGH & LOW = | 136 SQ. 11 |
| VENTILAT | ION PROVIDED: | | | |
| 3 | LF VENTILATED SOFFIT AT | 6.9 | 5Q. IN. / LF. = | 21 50.1 |
| 7 | LF RIDGE VENT(S) AT | 18 | 5Q. IN. EA. = | 126 SQ. 11 |
| | ENTILATION PROVIDED: | | - | 147 SQ. II |

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

FRAMER SHALL BE RESPONSIBLE FOR COORDINATING WITH TRUSS MANUFACTURER TO ACCOMMODATE ALL ATTIC VENTS.

ALL VENTS SHALL BE INSTALLED SO AS TO MAKE THEM WATER-PROOF & WALL MOUNTED LOUVERS SHALL BE SEALED & FLASHED W. MOISTOP, IN THE SAME MANNER PRESCRIBED FOR WINDOW

DIVISION MGR.: REVISIONS: DIVISION REVISIONS NCI90IINCP- 2/27/19 CTD

PROJECT No.: 1350999:56

ISSUE DATE:

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DIVISION REVISIONS NCI9052NCP- 08/02/18 1

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

ADD DECKS & SUNROOF NC21019NCP-04/05/21-CTD

DIVISION REVISION

11 NC2105/NCF - 10/25/21 - KBA

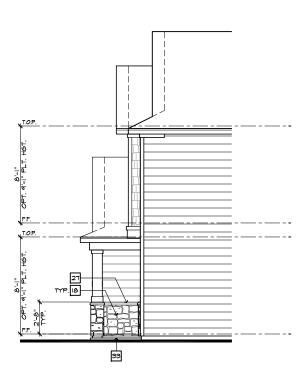
237.2723-R

3.C2

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

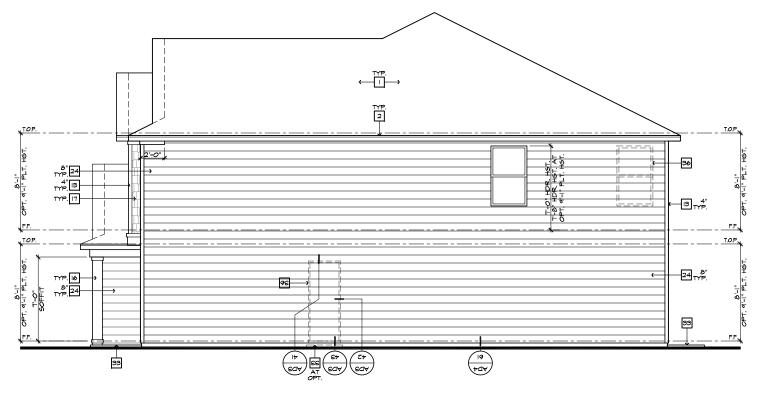
PARTIAL FRONT ELEVATION 'C' W/ MASONRY OPTION

AD2 AD2



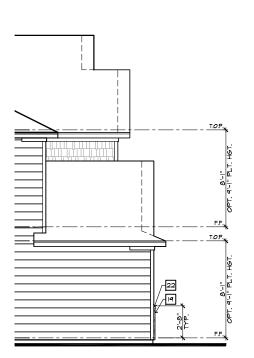
PARTIAL RIGHT ELEVATION 'C' W/ MASONRY OPTION

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



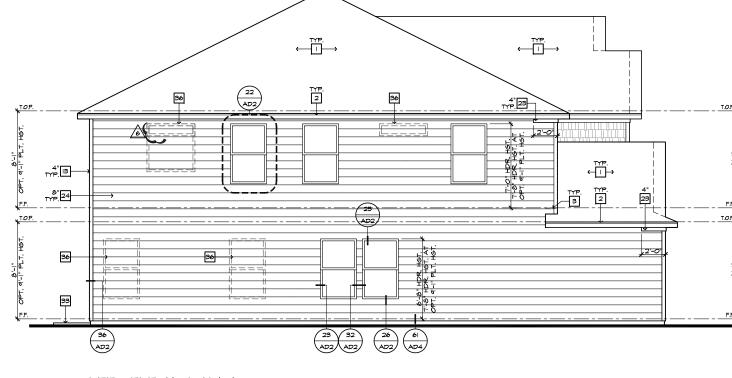
RIGHT ELEVATION 'C'

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



PARTIAL LEFT ELEVATION 'C' W/ MASONRY OPTION

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



LEFT ELEVATION 'C'

ELEVATION NOTES

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

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

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

FAX: (919) 544-2928

02/23/17 ISSUE DATE:

■ PROJECT No.: 1350999:56 ■ DIVISION MGR.: **REVISIONS:**

DIVISION REVISIONS NCISCINCP- 2/27/19 CTD

DIVISION REVISIONS NC19052NCP- 08/02/18 FAE

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

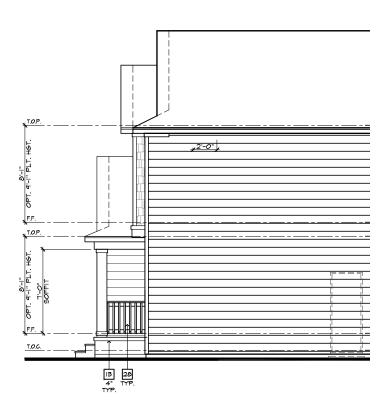
DIVISION REVISION

11 NC21057NCT - 10/25/21 - KBA

237.2723-R

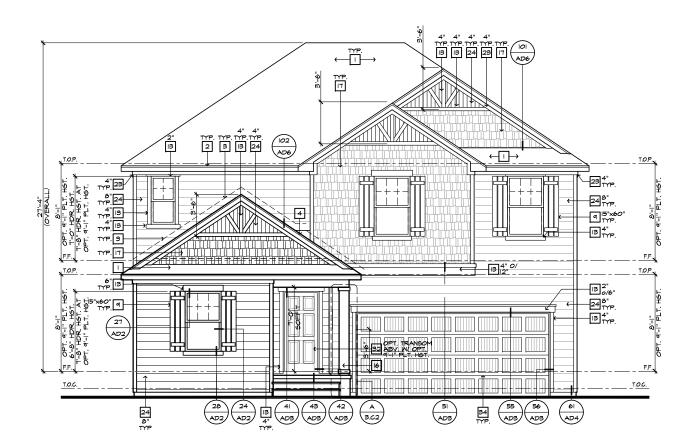
3.C3 SPEC. LEVEL 1

RALEIGH-DURHAM



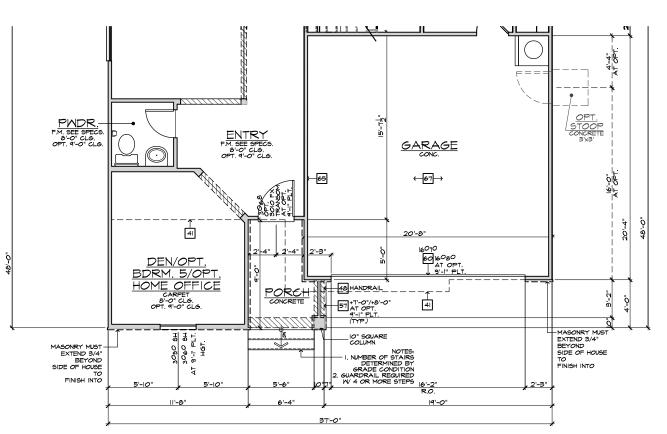
PARTIAL RIGHT ELEVATION 'C' W/ CRAWL SPACE

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



FRONT ELEVATION 'C' W/ CRAWL SPACE

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



PARTIAL FIRST FLOOR PLAN 'C' W/ CRAWL SPACE

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



42. ATRIUM DOOR 43. PILASTER - SEE ELEVATION FOR TYPE

PARTIAL PLAN NO PARTIAL PLAN NOTES

37. OPTIONAL STANDING SEAM METAL ROOF

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

4I. WATER TABLE

ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56 DIVISION MGR.: DIVISION REVISIONS NCI90IINCP- 2/27/19 CTD

FAX: (919) 544-2928

E S 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD DIVISION REVISIONS NCI9052NCP: 08/02/18 PAR DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA REPLACED KEYNOTES
NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION

11 NC21057NCP - 10/25/21 - KBA

237.2723-R 3.C4

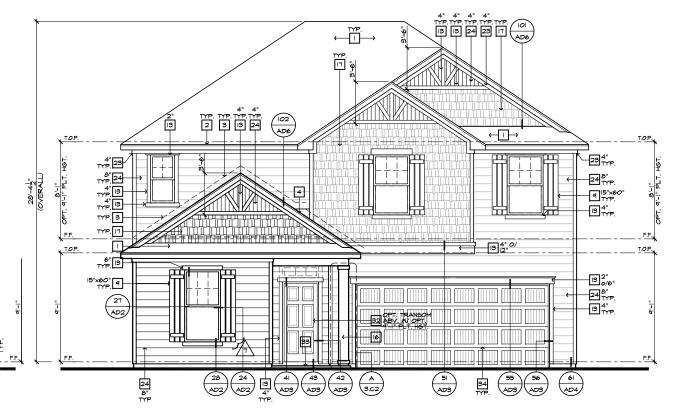
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

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



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

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



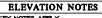
FRONT ELEVATION 'C' AT OPTIONAL 9'-I" PLT. HGT.

- 18 TYP.

27

58 AD3

65 AD4



- NOTE: NOT ALL KEY NOTES APPLY.

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

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

02/23/17 ISSUE DATE: PROJECT No.: 1350999:56 DIVISION MGR.:

DIVISION REVISIONS
NC19011NCP- 2/27/19 CTD

REVISIONS:

DIVISION REVISIONS NCI9052NCP- 08/02/18 PAR

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD DIVISION REVISION NC21057NCF - 10/25/21 - KBA

237.2723-R

3.C5

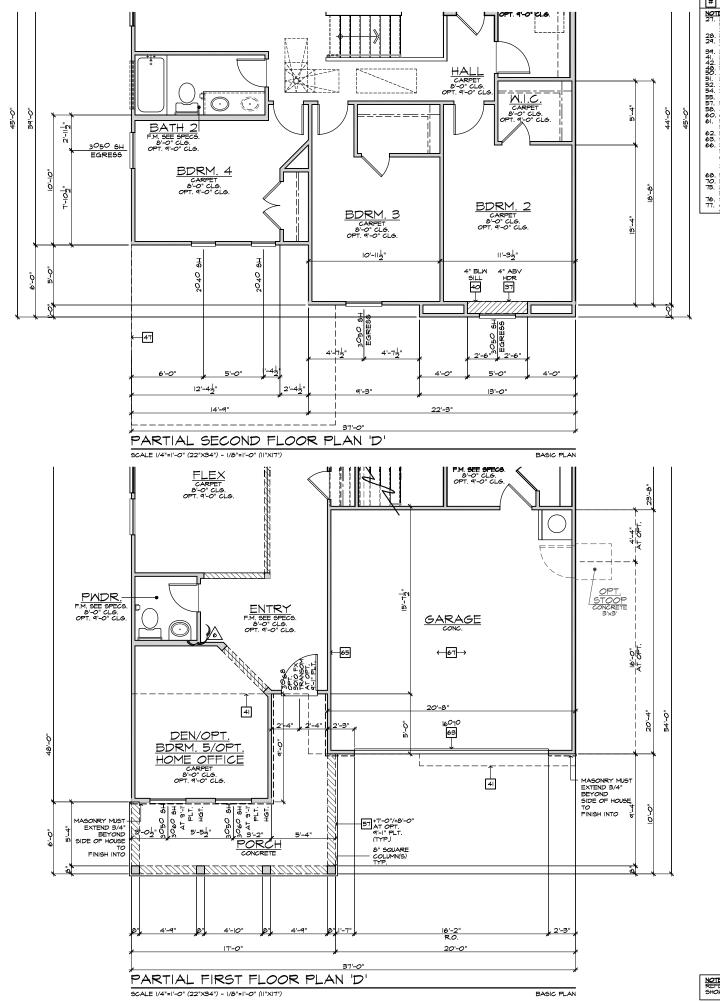
SPEC. LEVEL 1 RALEIGH-DURHAM

PARTIAL FRONT ELEVATION 'C' W/ MASONRY OPTION

18

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

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



PARTIAL PLAN NOTES

NOTE, NOT ALL KEY NOTES APPLY

21. MATER HEALTER CONTINUE FOR GAS - LOCATE ON 18" HIGH
DEALN, REFER TO DEFAILS

22. MATER HEATER B' VENT TO OUTSIDE AIR

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

29. MATTER HEALTER 'S 'VEN' TO OUTSIDE AIR
29. MAN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF
VALVE OF MALL BELOW
41. LINE OF FLOOR ABOVE
42. LINE OF FLOOR ABOVE
43. MAY BE OF FLOOR BELOW
43. MAY BE OF FLOOR BELOW
44. LINE OF FLOOR BELOW
45. MAY BE OFFER TO PLAN FOR HEIGHT
52. 2x6 STUD WALL
51. LOW MALL - REFER TO PLAN FOR HEIGHT
52. 2x6 STUD WALL
55. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT
56. ARCHED SOFFIT
56. STORM MAN BE OFFIT
56. BE OFFIT
56. BE OFFIT
56. BE OFFIT
56. BE OFFIT
57. PLAN FOR THE PREOPER OFFIT
58. ARCHED SOFFIT
59. MAY BE OFFIT
59. MAY BE OFFIT
50. OFFIT
50. ARCHED SOFFIT
50. OFFIT
50. ARCHED SOFFIT
50. OFFIT
50. MAY BE OFFIT
50. OFFIT
50. MAY BE OFFIT
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52. BE OFFIT
53. BE OFFIT
54. BE OFFIT
55. BE OFFIT
56. BE O

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

■ PROJECT No.: 1350999:56 ■ DIVISION MGR.:

DIVISION REVISIONS NCISCINCP- 2/27/19 CTD

REVISIONS:

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAE

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

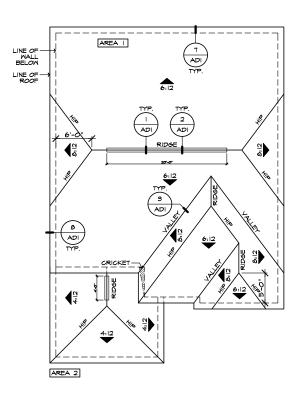
DIVISION REVISION

11 NC21057NCF - 10/25/21 - KBA

237.2723-R SHEET: 3.D1

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

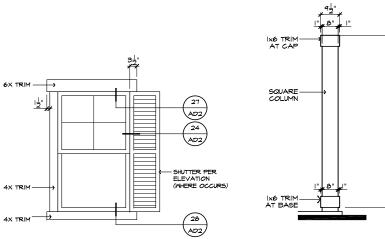
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

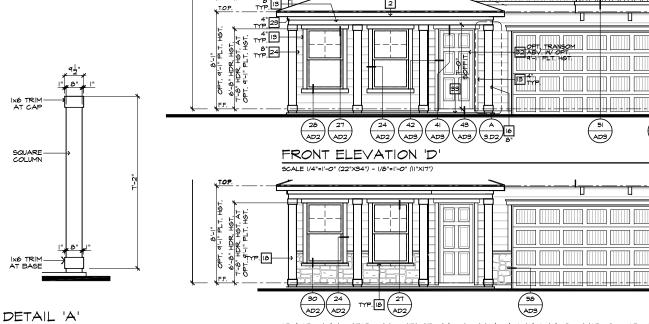


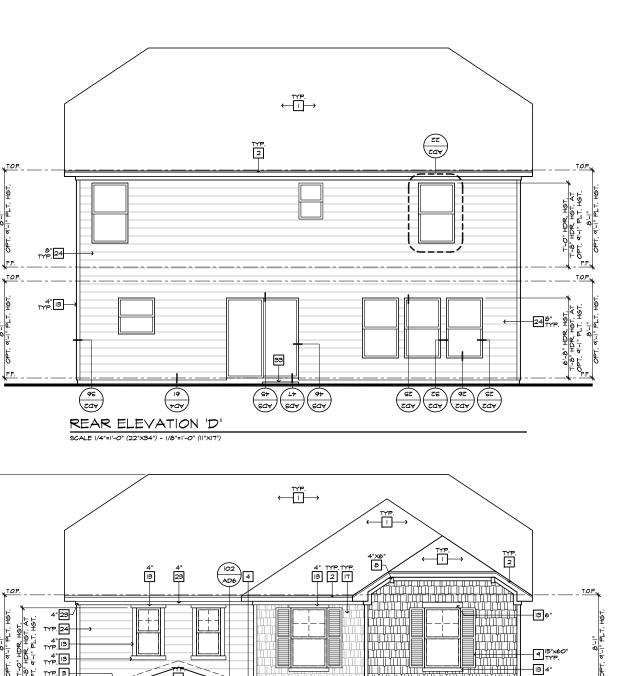
ROOF PLAN 'D'

DETAIL 'B'

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









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

HOME

NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

43. PILASTER - SEE ELEVATION FOR TYPE ROOF PLAN NOTES 'D'

ELEVATION NOTES

12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE

15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE IT. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS

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

3. G.I. FLASHING

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

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

I. RECESSED ELEMENT

18. STONE VENEER PER SPECS

21. SOLDIER COURSE

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN

42. ATRIUM DOOR

40. JACK SOLDIER COURSE 41. WATER TABLE

22. ROWLOCK COURSE

19. BRICK/MASONRY VENEER PER SPECS

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

27. LIGHT WEIGHT PRECAST STONE TRIM

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

34. SECTIONAL GARAGE DOOR PER SPECS

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

26. PRE-FAB DECORATIVE TRIM

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

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

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

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

6:12

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

ATTIC VENT CALCULATIONS

PROVIDE I SQ. IN. OF VENTILATION PER 300 SQ. IN. OF ATTIC
SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF
THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS
THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS
AT 3-0° ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED
BY EAVE VENTS, (LOW YENTING) (2018 NG.-R 306.2)

* CALCULATION BY (JISO, HIGH/LOW VENTING NOT REQUIRED,
APPROXIMATE RIDGE VENT LOCATIONS SHOWN,
ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

90. FT. / 300 4.71 90. FT × 144 = 678 90. IN. TOTAL HIGH & LOW = 678 SQ. IN × 50% = 389 SQ. IN 18 SQ. IN. / LF. = 360 SQ. IN 50 SQ. IN. EA. = 50 SQ. IN 410 SQ. IN LF RIDGE VENT(S) AT LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = ROOF VENT(S) AT 50 SQ. IN. EA. = O ROOF VENT(S) AT SUB-TOTAL LOW VENTILATION: 50. IN. EA. = TOTAL VENTILATION PROVIDED: AREA 2 / PORCH: VENTILATION REQUIRED: 796 SQ. IN. X 144 = 191 50. IN \$ LOW = 191 50. IN LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = 200 SQ. IN LF RIDGE VENT(S) AT 18 SQ. IN. EA. = 72 SQ. IN.

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

ALL VENTS SHALL BE INSTALLED SO AS TO MAKE THEM WATER-PROOF & WALL MOUNTED LOUVERS SHALL BE SEALED & FLASHED W. MOISTOP, IN THE SAME MANNER PRESCRIBED FOR WINDOW

ADD DECKS & SUNROOM

ISSUE DATE:

REVISIONS

DIVISION MGR.:

02/23/17

PROJECT No.: 1350999:56

DIVISION REVISIONS NCISOIINCP- 2/27/19 CTD

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAR

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

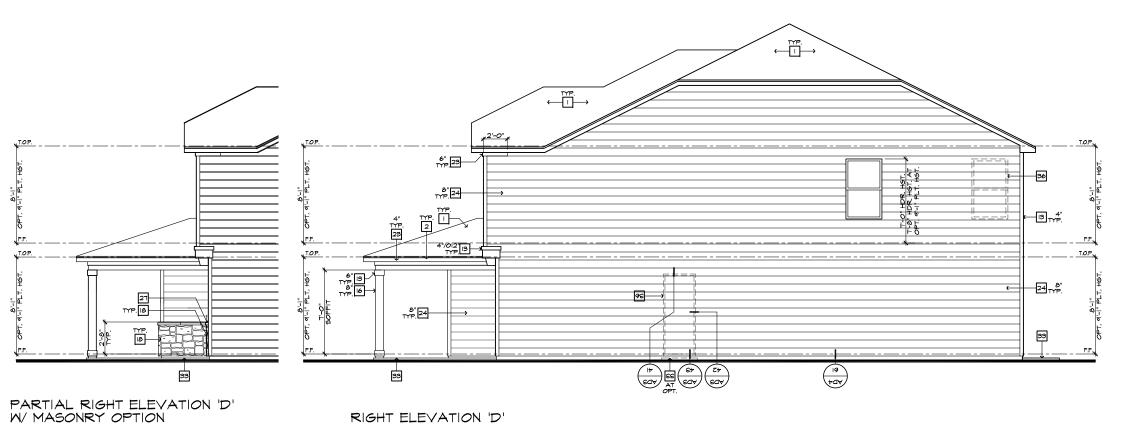
DIVISION REVISION NC21057NCP - 10/25/21 - KBA

237.2723-R

3.D2

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

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



TYP. -17 **−**[13]4" 8"[24]— -16 8" TYP. 36-√27 ï, 24⁸" TYP. 33 33 26 AD2 6I AD4 36 AD2

PARTIAL LEFT ELEVATION 'D' W/ MASONRY OPTION

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

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

LEFT ELEVATION 'D' SCALE I/4"=1'-0" (22"X34") - I/6"=1'-0" (II"XI7")

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

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES

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

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

- 42. ATRIUM DOOR
 43. PILASTER SEE ELEVATION FOR TYPE

HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

02/23/17 ISSUE DATE: ■ PROJECT No.: 1350999:56 ■ DIVISION MGR.:

REVISIONS: DIVISION REVISIONS NCISCINCP- 2/27/19 CTD

DIVISION REVISIONS
NCI9052NCP- 08/02/18 FAE

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

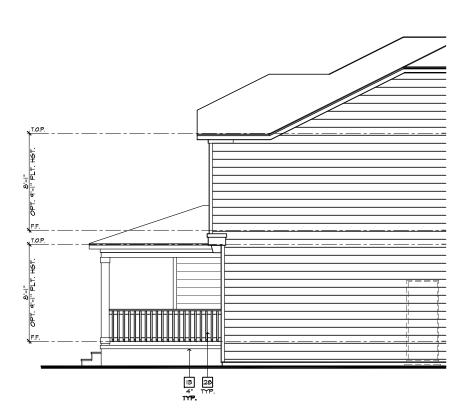
DIVISION REVISION

11 NC21057NCT - 10/25/21 - KBA

237.2723-R

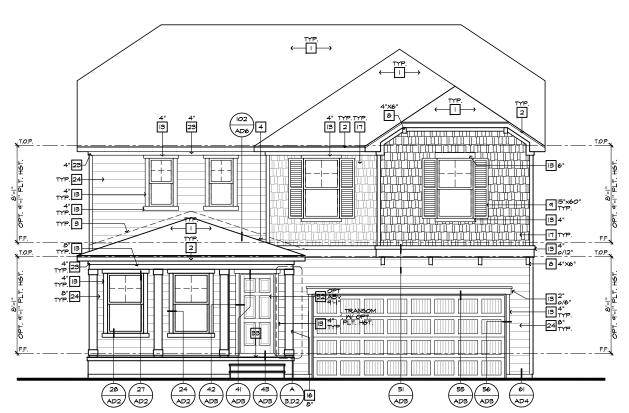
3.D3

SPEC. LEVEL 1 RALEIGH-DURHAM



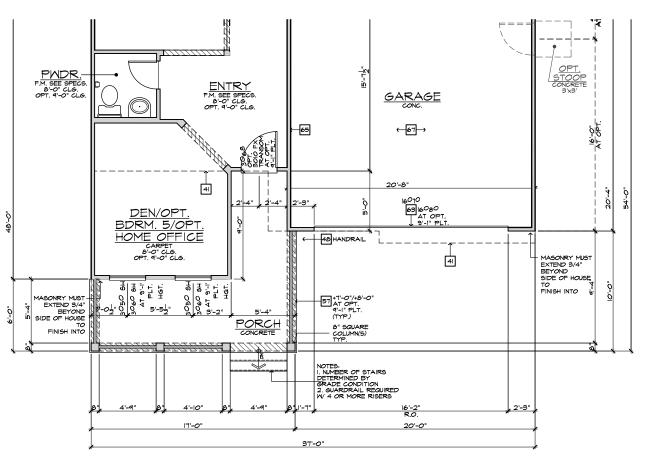
PARTIAL RIGHT ELEVATION 'D' W/ CRAWL SPACE

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

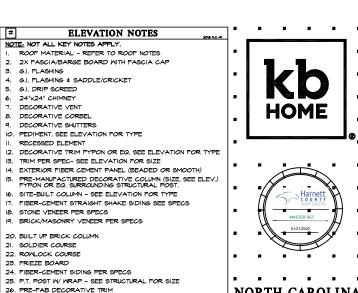


FRONT ELEVATION 'D' W/ CRAWL SPACE

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



PARTIAL FIRST FLOOR PLAN 'D' W/ CRAWL SPACE



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

42. ATRIUM DOOR 43. PILASTER - SEE ELEVATION FOR TYPE

PARTIAL PLAN NO PARTIAL PLAN NOTES

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

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

36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS

27. LIGHT WEIGHT PRECAST STONE TRIM

31. BRACKET OR KICKER - FYPHON OR EQ.

34. SECTIONAL GARAGE DOOR PER SPECS

37. OPTIONAL STANDING SEAM METAL ROOF

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

32. ENTRY DOOR

35. ALUMINUM WRAP

38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE 4I. WATER TABLE

PARTIAL PLAN NOTES

***DOTE: NOT ALL KEY NOTES APPLY
27. MATTER HEATER LOCATION: - FOR GAS - LOCATE ON 10° HIGH
PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4
PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4
PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4
PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN 4
PLATFORM - FOR INTERIOR SHEEP

28. MATER HEATER 18 VENT TO OUTSIDE AIR
29. MAIN LINE SHIT-OFF VALVE AND TEMP. 4 PRESSURE RELIEF

39. LINE OF RADOVE
41. LINE OF FLOOR BELOW
41. LINE OF FLOOR BELOW
41. LINE OF FLOOR BELOW
42. LINE OF FLOOR BELOW
43. LINE OF FLOOR BELOW
43. LINE OF FLOOR BELOW
45. MIN SETTION OF PLAN FOR HEIGHT
55. LOW WALL - REFER TO PLAN FOR HEIGHT
57. FLAT SOFFIT
60. OF THE SOFFIT
60. OF LOOR SHIPPOWER OF THE VENETR - REFER TO PLAN FOR HEIGHT
57. FLAT SOFFIT
60. OF LOOR MINDOW
60. FLOOR SECUL SURROUNDING STRUCTURAL POST.
62. BRICK / STONE VENEER - REFER TO ELEVATIONS
63. SECTIONAL GARAGE DOOR PER SPECS
66. 3° DIAM CONCRETE FILLED PIPE BOLLARD 36° HIGH WITH
MIN IZ * EMBEDDIENT INTO CONCRETE.
NOT REQUIRED AT ELECTRIC WATER HEATERS OF FOR APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL
FOR THE STANKAP.
69. ETCS INNOW
70. EIGHTS INNOW
71. EIGHTS INNOW
72. EIGHTS INNOW
73. MINDON LEDGE, HEIGHT & MIDTH OF OPENING TO EXTEND 6°
BEYOND MINDOWS) ON ALL SIDES UND.
74. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
75. CONCRETE SLAB. SLOPE I/4° PER FT. MIN. SEE PLAN FOR
SIZE

02/23/17 ISSUE DATE: PROJECT No.: 1350999:56 DIVISION MGR.:

DIVISION REVISIONS NCI90IINCP- 2/27/19 CTD

E S 2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD DIVISION REVISIONS NCI9052NCP: 08/02/18 PAR

DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION

11 NC21057NCP - 10/25/21 - KBA

237.2723-R SHEET:

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

3.**D**4

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



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

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

I. ROOF MATERIAL - REFER TO ROOF NOTES

2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP

3. G.I. FLASHING

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

6. 24"x24" CHIMNEY 7. DECORATIVE VENT

8. DECORATIVE CORBEL 9. DECORATIVE SHUTTERS

IO. PEDIMENT. SEE ELEVATION FOR TYPE

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

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

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

16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE

17. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS

18. STONE VENEER PER SPECS

19. BRICK/MASONRY VENEER PER SPECS

20. BUILT UP BRICK COLUMN

21. SOLDIER COURSE 22. ROWLOCK COURSE

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

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

27. LIGHT WEIGHT PRECAST STONE TRIM

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

29. FIBER-CEMENT SMOOTH BOARD SEE SPECS

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

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

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

34. SECTIONAL GARAGE DOOR PER SPECS 35. ALUMINUM WRAP

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

38. KEYSTONE 39. SOLDIER CROWN

40. JACK SOLDIER COURSE 41. WATER TABLE

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



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

02/23/17 ISSUE DATE: ■ PROJECT No.: 1350999:56 ■ DIVISION MGR.:

DIVISION REVISIONS NC1901INCP- 2/27/19 CTD

REVISIONS:

DIVISION REVISIONS NCI9052NCP- 08/02/18 PAR

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION NC21057NCT - 10/25/21 - KBA

237.2723-R 3.D5

SPEC. LEVEL 1 RALEIGH-DURHAM



PARTIAL FRONT ELEVATION 'D' W/ MASONRY OPTION

58 AD3

30 24 TYP. [8] 27 AD2

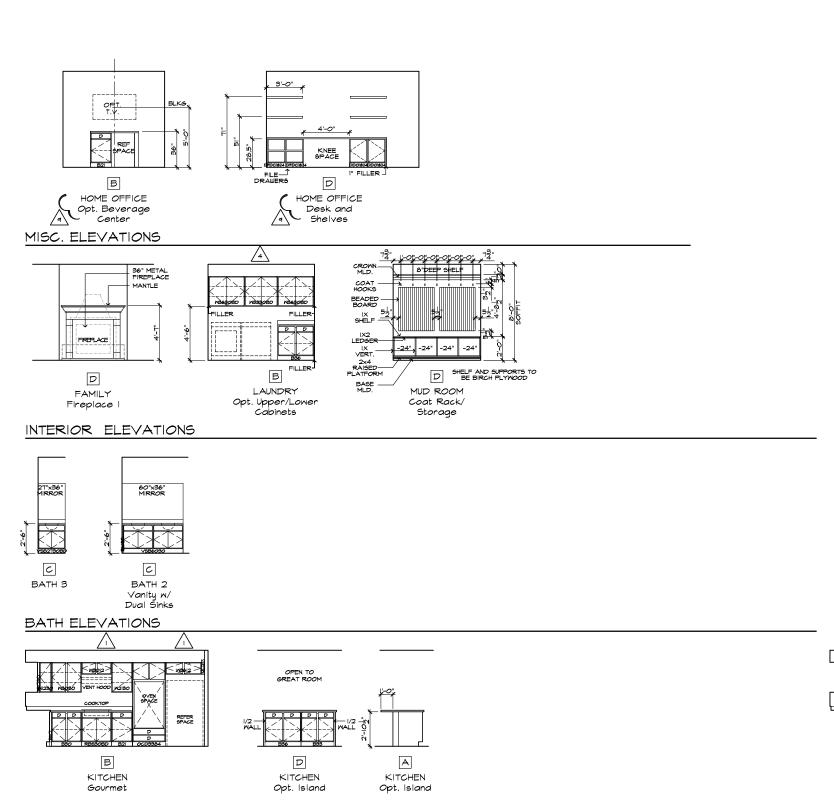
SCALE |/4"=|'-0" (22"X34") - |/8"=|'-0" (||"X|7") SCALE I/4"=I'-0" (22"X34") - I/8"=I'-0" (II"XIT")

27

56 AD3

65 AD4

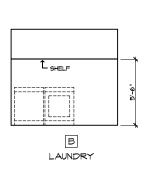




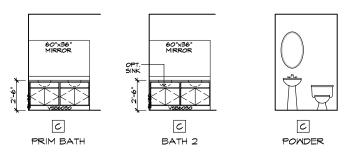
KITCHEN ELEVATIONS

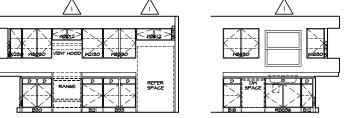
SCALE: 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"XIT")

OPTIONAL INTERIOR ELEVATIONS



INTERIOR ELEVATIONS





KITCHEN

KITCHEN ELEVATIONS

В

KITCHEN

BATH ELEVATIONS

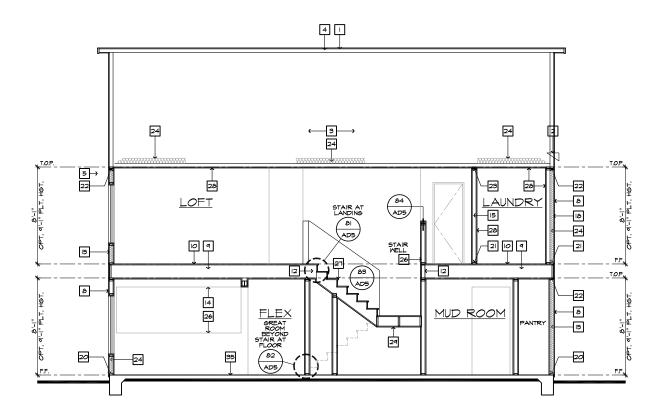
INTERIOR ELEVATIONS

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

237.2723-R

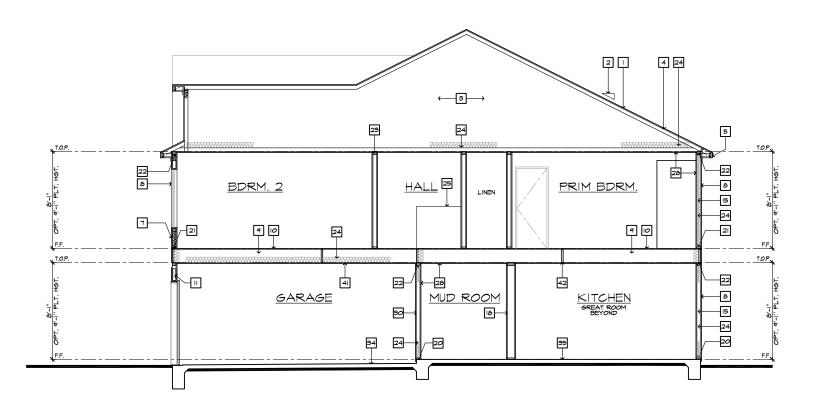
SPEC. LEVEL 1 RALEIGH-DURHAM

4.1



SECTION "A"

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



SECTION "B"

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

SLAB PLAN NOTES

NOTE: NOT ALL KEY NOTES APPLY.

- CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.
- 2. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER. 1-0" MIN. TOMARD DOOR OPENING.
 3. CONCRETE FOUNDATION PER STRUCTURAL.
- 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.
- . 5" BRICK LEDGE FOR MASONRY VENEER.
- 8. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
- REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
- IO. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.
- II. 4" MIN. 8 I/4" MAX. TO HARD SURFACE.
 I2. A/C PAD. VERIFY LOCATION.
- 13. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

ISSUE DATE: 02/23/17 ■ PROJECT No.: 1350999:56 ■

DIVISION MGR.: REVISIONS:

DIVISION REVISIONS NCI90IINCP- 2/27/19 CTD

2012 CODE UPDATE NC19015NCP/ 03/15/19 / CTD

DIVISION REVISIONS NC19052NCP- 08/02/18 FAE DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / EBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION

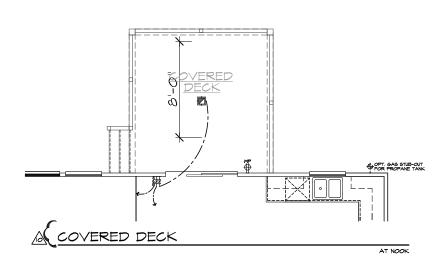
11 NC21057NCF - 10/25/21 - KBA

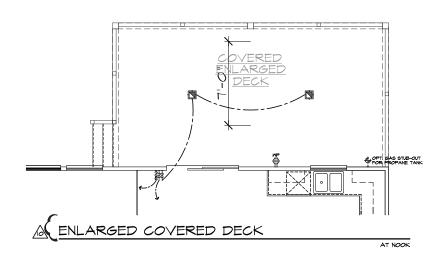


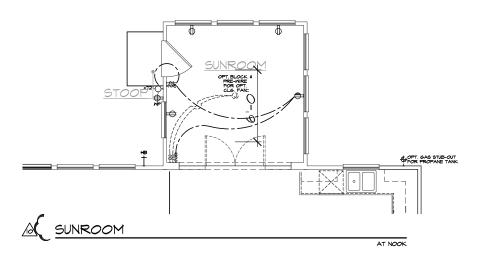
237.2723-R

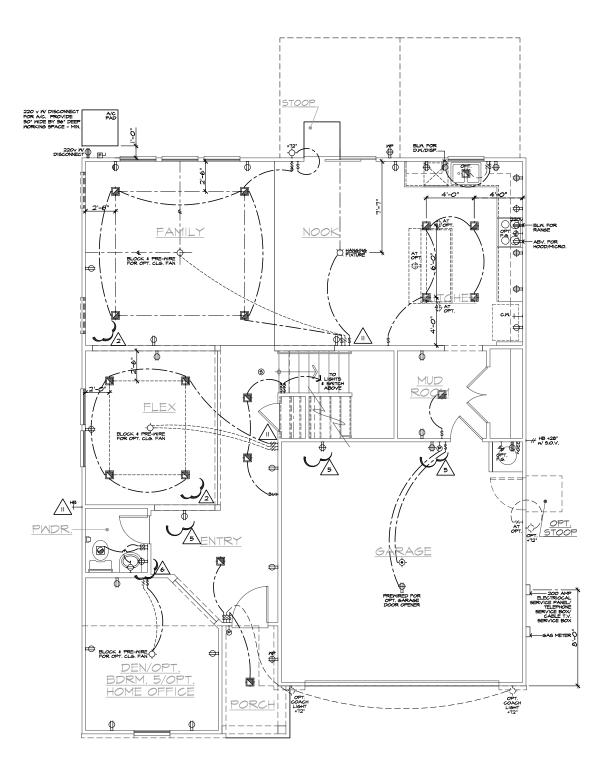
SPEC. LEVEL 1

RALEIGH-DURHAM 40' SERIES



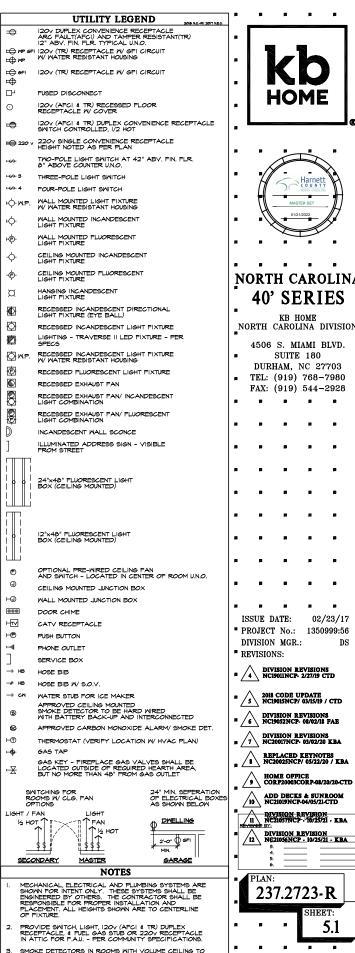






FIRST FLOOR UTILITY PLAN

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



HOME



NORTH CAROLINA 40' SERIES

NORTH CAROLINA DIVISION

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

DIVISION REVISION

NC21057NCP - 10/25/21 - KBA

20 FOOT #4 REBAR FOR UFER GROUND AND ADDITIONAL COLD WATER GROUND, REFER TO SLAB INTERFACE PLAN FOR LOCATION. 200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS.

5.1 SPEC. LEVEL 1 RALEIGH-DURHAM

40' SERIES

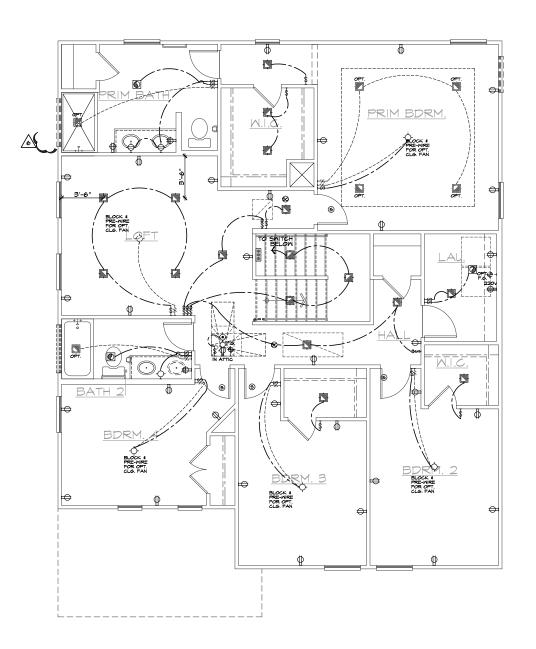
237.2723-R

2018 CODE UPDATE NCI90I5NCP/ 03/I5/I9 / CTD

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAB

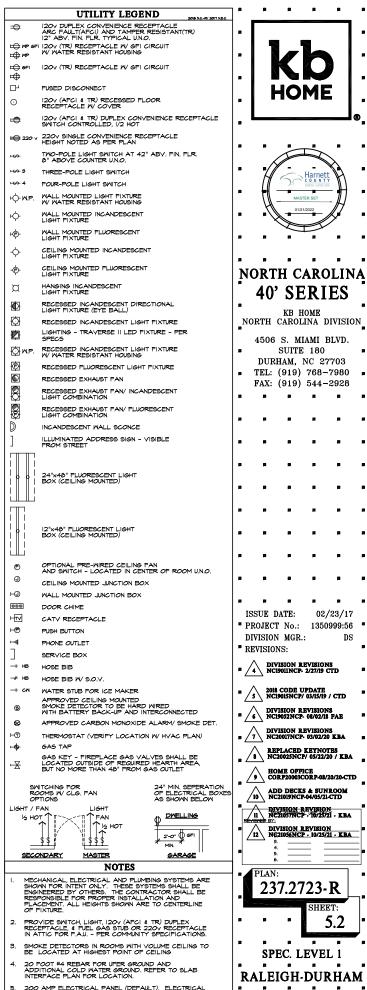
9 HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOF



SECOND FLOOR UTILITY PLAN

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







NORTH CAROLINA 40' SERIES

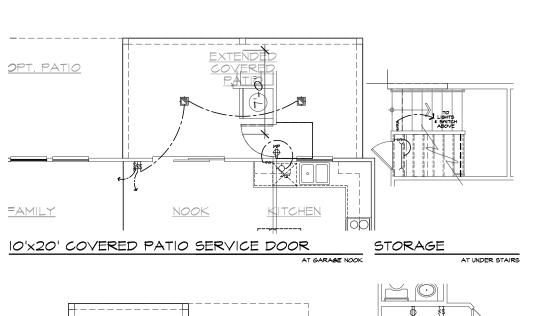
NORTH CAROLINA DIVISION 4506 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703

TEL: (919) 768-7980 FAX: (919) 544-2928

200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMP5.

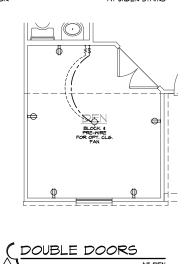
SHEET: 5.2

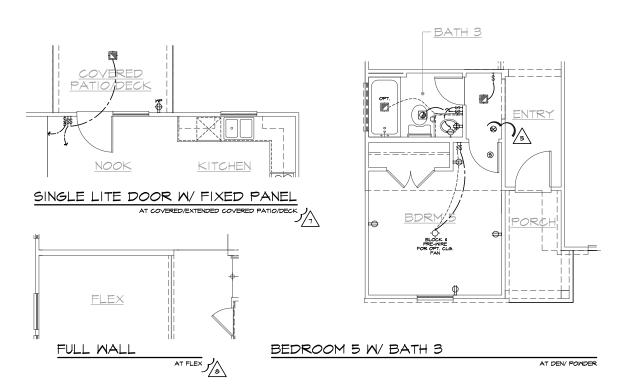
RALEIGH-DURHAM 40' SERIES



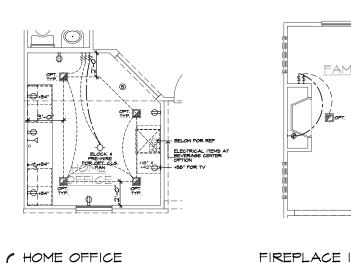
OPT. PATIO

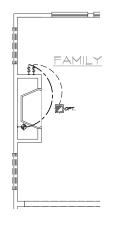
AT NOOK





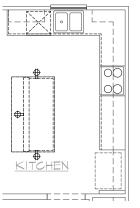
SHOWER I.L.O. TUB



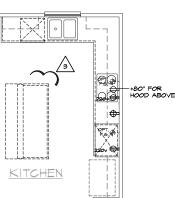


AT FAMILY

COAT RACK / STOR.



KITCHEN ISLAND



_BATH 3

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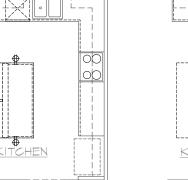
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AT KITCHEN

BATH 3

SHOWER W/

SEAT I.L.O. TUB

GOURMET KITCHEN



NOOK

10'x10' COVERED PATIO

UTILITY LEGEND 120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL U.N.O. WP 6FI 120V (TR) RECEPTACLE W 6FI CIRCUIT W WATER RESISTANT HOUSING # 6FI 120v (TR) RECEPTACLE W 6FI CIRCUIT HOME FUSED DISCONNECT 120v (AFCI & TR) RECESSED FLOOR RECEPTACLE W COVER 120v (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SMITCH CONTROLLED, 1/2 HOT



NORTH CAROLINA 40' SERIES

NORTH CAROLINA DIVISION

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

ISSUE DATE: 02/23/17

DIVISION REVISIONS
NCI90LINCP- 2/27/19 CTD

DIVISION MGR.:

REVISIONS:

PROJECT No.: 1350999:56

DIVISION REVISIONS NC19052NCP- 08/02/18 FAE

DIVISION REVISIONS
NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

ADD DECKS & SUNROOM

DIVISION REVISION

II NC21057NCP - 10/25/21 - KBA

237.2723-R

SHEET:

5.3

INCANDESCENT WALL SCONCE ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET

220 v SINGLE CONVENIENCE RECEPTACLE HEIGHT NOTED AS PER PLAN

THREE-POLE LIGHT SWITCH

FOUR-POLE LIGHT SWITCH WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING

WALL MOUNTED INCANDESCENT LIGHT FIXTURE

WALL MOUNTED FLUORESCENT LIGHT FIXTURE

CEILING MOUNTED INCANDESCENT LIGHT FIXTURE

CEILING MOUNTED FLUORESCENT LIGHT FIXTURE

RECESSED INCANDESCENT DIRECTION LIGHT FIXTURE (EYE BALL)

RECESSED INCANDESCENT LIGHT FIXTURE

RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING

RECESSED FLUORESCENT LIGHT FIXTURE

RECESSED EXHAUST FAN/ INCANDESCENT LIGHT COMBINATION

RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION

LIGHTING - TRAVERSE II LED FIXTURE - PER SPECS

TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. 8" ABOVE COUNTER U.N.O.

12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)

OPTIONAL PRE-WIRED CEILING FAN AND SWITCH - LOCATED IN CENTER OF ROOM U.N.O.

 $\vdash \bigcirc$ WALL MOUNTED JUNCTION BOX 000 DOOR CHIME

+CATY RECEPTACLE H® PUSH BUTTON PHONE OUTLET

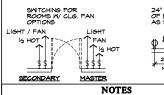
SERVICE BOX HOSE BIB

HOSE BIB W/ S.O.V. WATER STUB FOR ICE MAKER

APPROVED CEILING MOUNTED
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) GAS TAP

GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET



24" MIN. SEPERATION OF ELECTRICAL BOX AS SHOWN BELOW DWELLING 2'-0" GFI

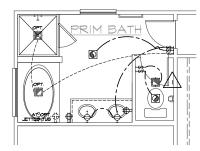
MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENSIRERED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE OF FIXTURE.

20 FOOT #4 REBAR FOR UFER GROUND AND ADDITIONAL COLD WATER GROUND, REFER TO SLAB INTERFACE PLAN FOR LOCATION.

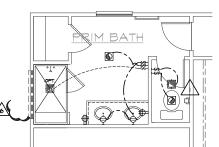
SPEC. LEVEL 1 RALEIGH-DURHAM 200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS. 40' SERIES



LAUNDRY TUB



SUPER PRIM BATH

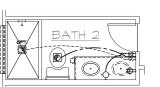


DELUXE PRIM BATH

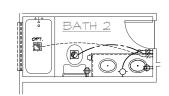




SHOWER W/ SEAT I.L.O. TUB



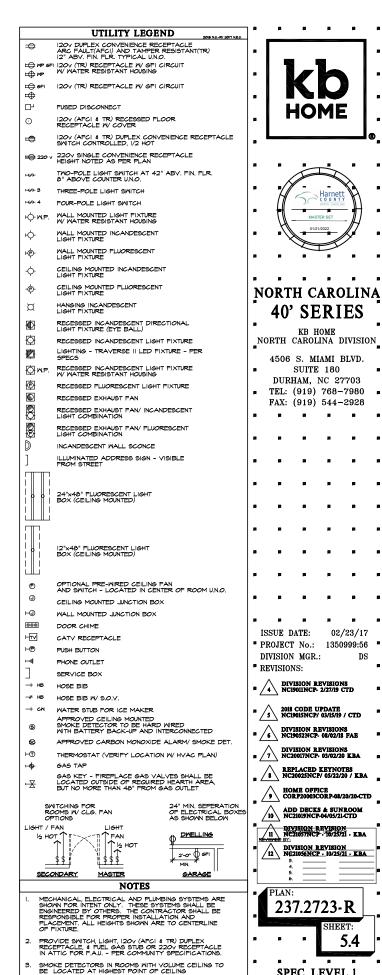
SHOWER I.L.O. TUB



VANITY M/ DUAL SINKS AT BATH 2

SECOND FLOOR UTILITY PLAN OPTIONS

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



20 FOOT #4 REBAR FOR UFER GROUND AND ADDITIONAL COLD WATER GROUND, REFER TO SLAB INTERFACE PLAN FOR LOCATION.

200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS.

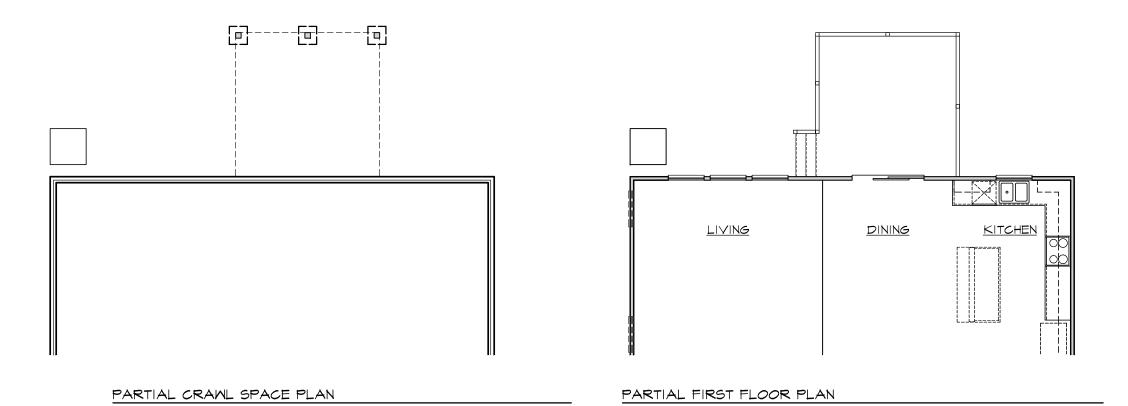
SHEET: 5.4

SPEC. LEVEL 1

RALEIGH-DURHAM

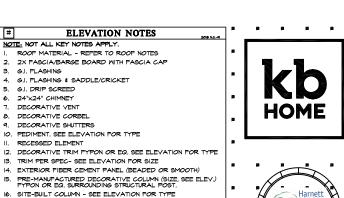
40' SERIES





DECK AT CRAWL SPACE

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





NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

ISSUE DATE:

DIVISION MGR.: REVISIONS:

02/23/17 PROJECT No.: 1350999:56

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAE

7 DIVISION REVISIONS NC20017NCP- 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION

NC21057NCP - 10725721 - KBA

PARTIAL PLAN NO PARTIAL PLAN NOTES

PARTIAL PLAN NOTES

***DOTE, NOT ALL KEY NOTES APPLY.**
27. MATER HEATER LOCATION. - FOR GAS - LOCATE ON 18" HIGH PLATFORM. - FOR INTERIOR LOCATION. - FOR GAS - LOCATE ON 18" HIGH PLATFORM. - FOR INTERIOR LOCATION. - PROVIDE PAN & DRAIN, (REFER TO DETAILS).

28. MATER HEATER B' VENT TO QUISIDE AIR.

39. LINE OF MALL BELOW.

41. LINE OF MALL BELOW.

41. LINE OF FLOOR BELOW.

42. LINE OF FLOOR BELOW.

43. MINE SHIP SHAPPAIL (REFER TO DETAIL SHEETS).

56. MINE SHIP SHAPPAIL (REFER TO DETAIL SHEETS).

57. LOW WALL. - REFER TO PLAN FOR HEIGHT.

58. MINE SHIP SHAPPAIL (REFER TO PLAN FOR HEIGHT.

59. INTERIOR SHELF. - REFER TO PLAN FOR HEIGHT.

51. THE SHAPPAIN SHAP

DIVISION REVISIONS NCI90IINCP. 2/27/19 CTD FOUNDATION PLAN NOTES 2018 CODE UPDATE NCI90I5NCP/ 03/I5/I9 / CTD

NOTE: NOT ALL KEY NOTES APPLY. CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN.

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE I/6" PEI I'-O" MIN, TOWARD DOOR OPENING.

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

7. 4" TOE KICK FOR MASONRY VENEER

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

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

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

IO. VERIFY LOCATION OF PIER FOOTINGS PER STRUCTURAL

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

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

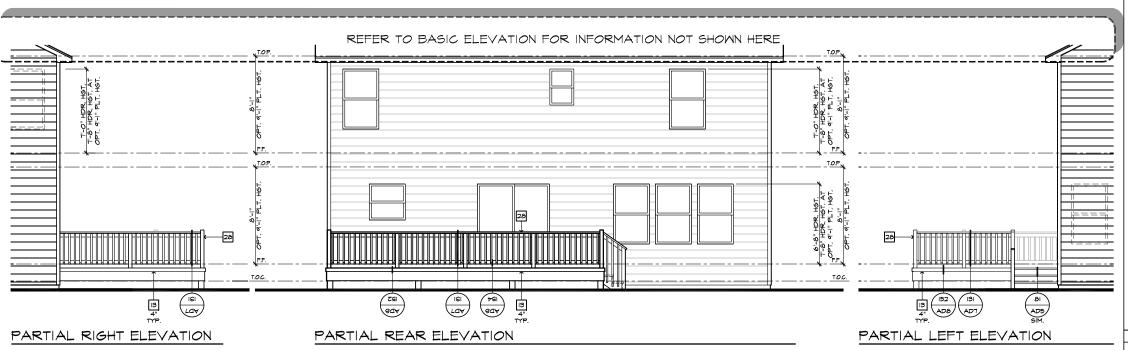
THE CRAML SPACE IS TO BE CONDITIONED PER NC-R SECTION R409.
THE CRAML SPACE VAPOR RETARDER (BARRIER) IS TO BE PER NC-R SECTION R409.2.

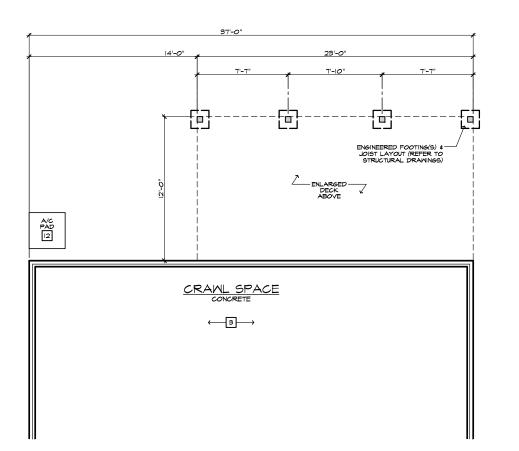
NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE

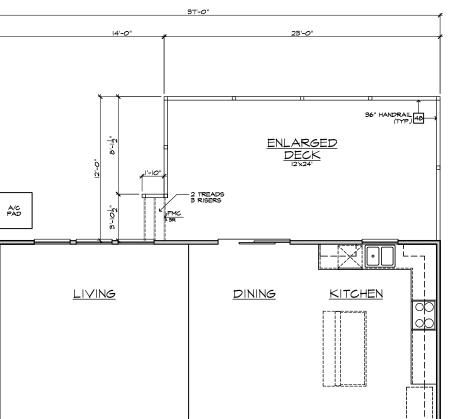
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

237.2723-R SHEET: 7.1

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES





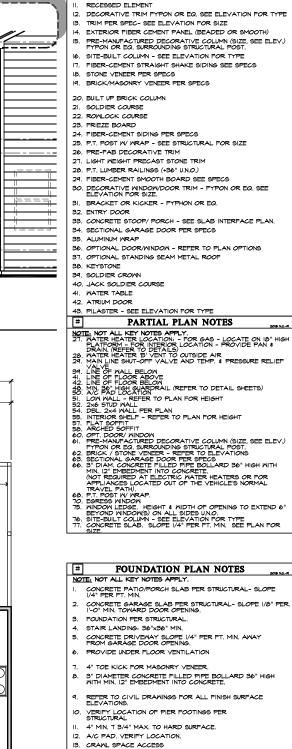


PARTIAL CRAWL SPACE PLAN

PARTIAL FIRST FLOOR PLAN

EXTENDED ENLARGED DECK AT CRAWL SPACE

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



HOME **NORTH CAROLINA** 40' SERIES KB HOME NORTH CAROLINA DIVISION 4506 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7980 m FAX: (919) 544-2928 ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56 DIVISION MGR.: DIVISION REVISIONS NCI90IINCP. 2/27/19 CTD DIVISION REVISIONS NCI9052NCP- 08/02/18 FAE 7 DIVISION REVISIONS NC20017NCP- 03/02/20 KBA REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA HOME OFFICE CORP20003CORP-08/20/20-CTD ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD DIVISION REVISION

11 NC21057NCF - 10725721 - KBA

CONCRETE GARAGE SLAB PER STRUCTURAL I'-O" MIN. TOWARD DOOR OPENING.

6. PROVIDE UNDER FLOOR VENTILATION

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

ELEVATION NOTES

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

NOTE: NOT ALL KEY NOTES APPLY.

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

3. G.I. FLASHING

24"x24" CHIMNEY
 DECORATIVE VENT

. DECORATIVE CORBEL I. DECORATIVE SHUTTERS O. PEDIMENT. SEE ELEVATION FOR TYPE

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

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

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

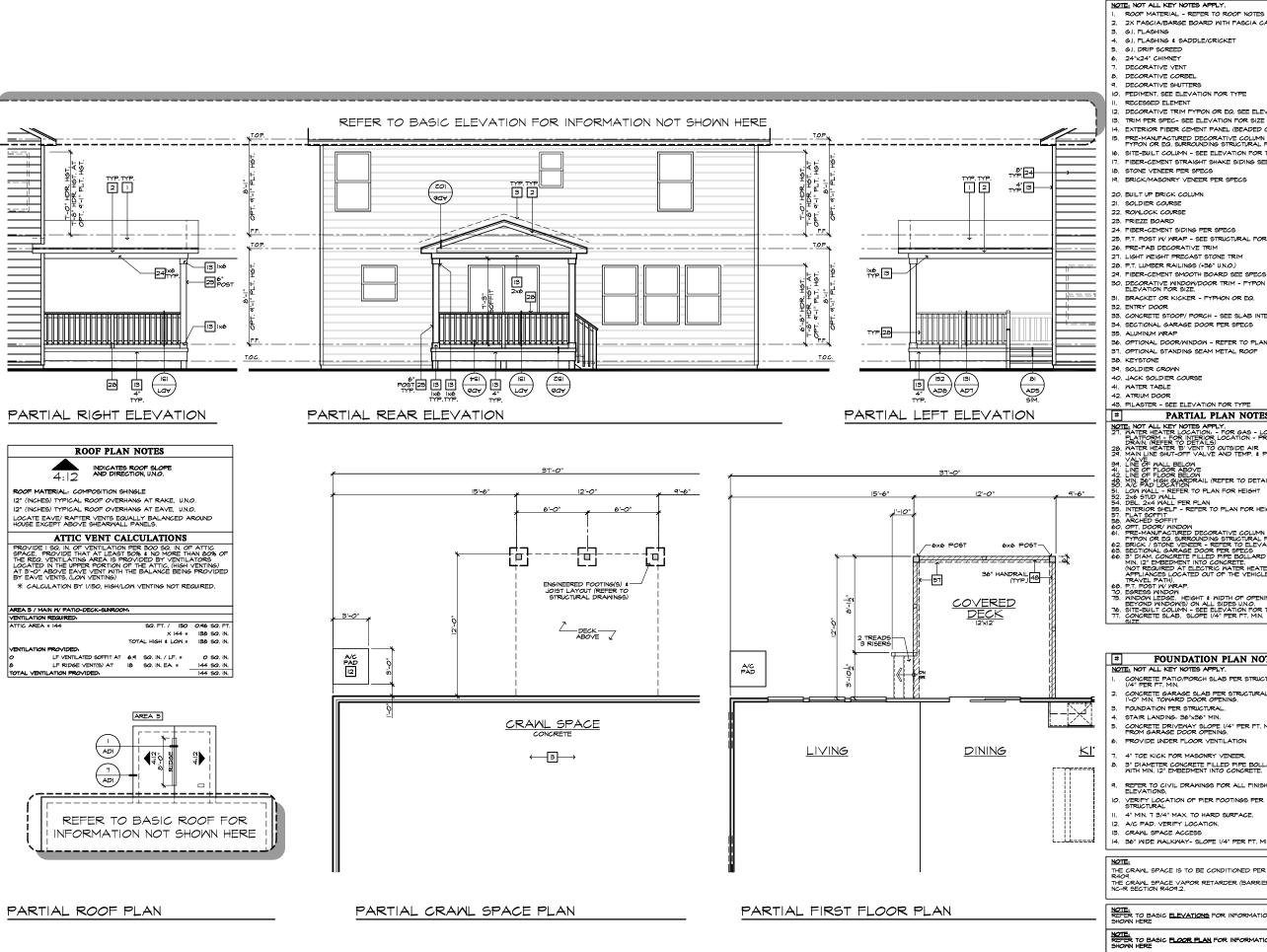
THE CRAML SPACE IS TO BE CONDITIONED PER NC-R SECTION R409.
THE CRAML SPACE VAPOR RETARDER (BARRIER) IS TO BE PER NC-R SECTION R409.2.

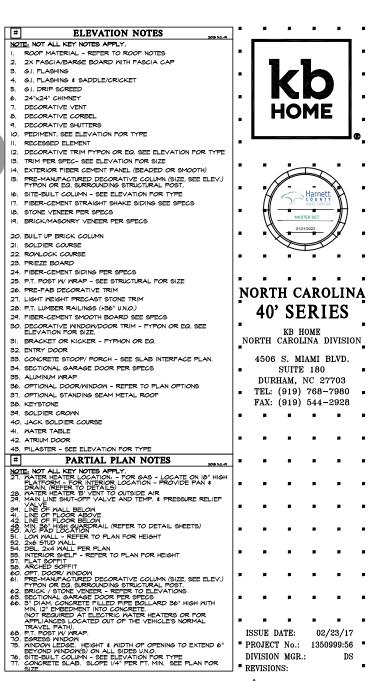
NOTE: REFER TO BASIC **ELEVATIONS** FOR INFORMATION NOT SHOWN HERE

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

237.2723-R SHEET: 7.2

SPEC. LEVEL 1 RALEIGH-DURHAM





ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56 DIVISION MGR.: DIVISION REVISIONS NCI90IINCP. 2/27/19 CTD

FOUNDATION PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY. CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN. CONCRETE GARAGE SLAB PER STRUCTURAL-I'-O" MIN. TOWARD DOOR OPENING. 7 DIVISION REVISIONS NC20017NCP- 03/02/20 KBA FOUNDATION PER STRUCTURAL. STAIR LANDING: 36"x36" MIN. REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING. PROVIDE UNDER FLOOR VENTILATION HOME OFFICE CORP20003CORP-08/20/20-CTD 4" TOE KICK FOR MASONRY VENEER.
 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

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

12. A/C PAD. VERIFY LOCATION.

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

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

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

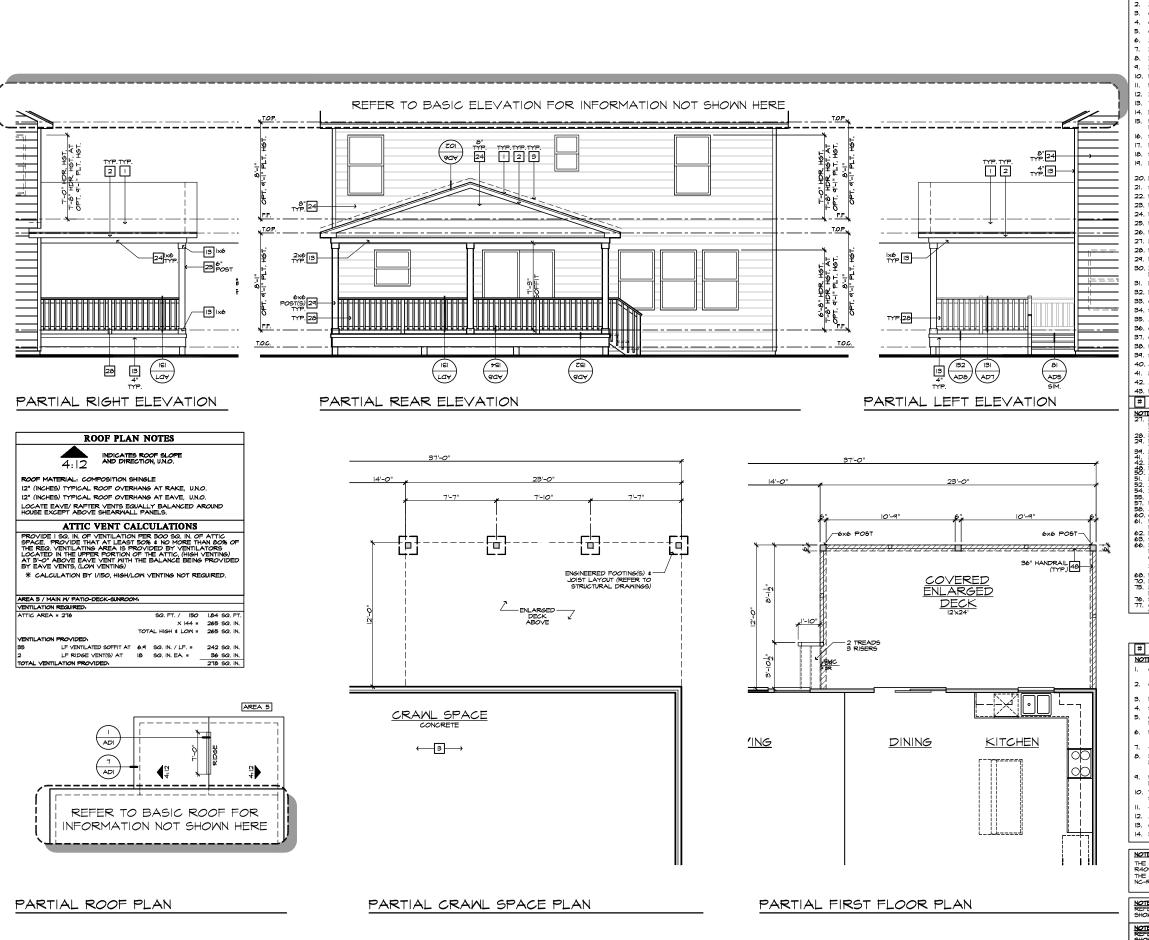
NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

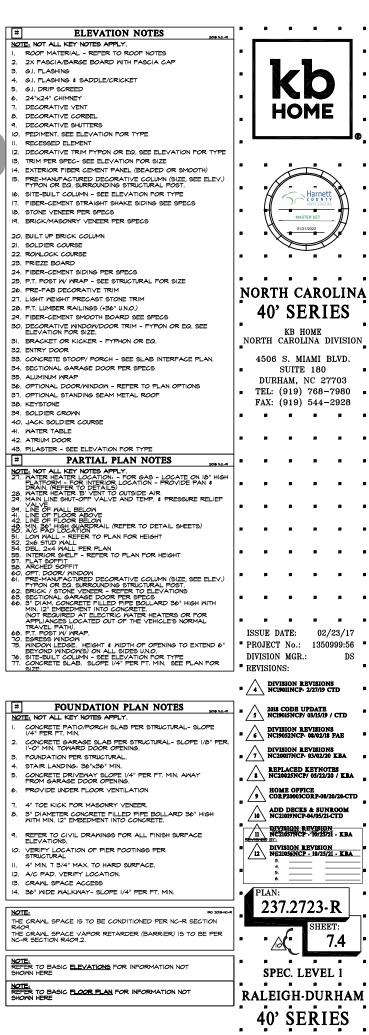
237.2723-R SHEET: 7.3

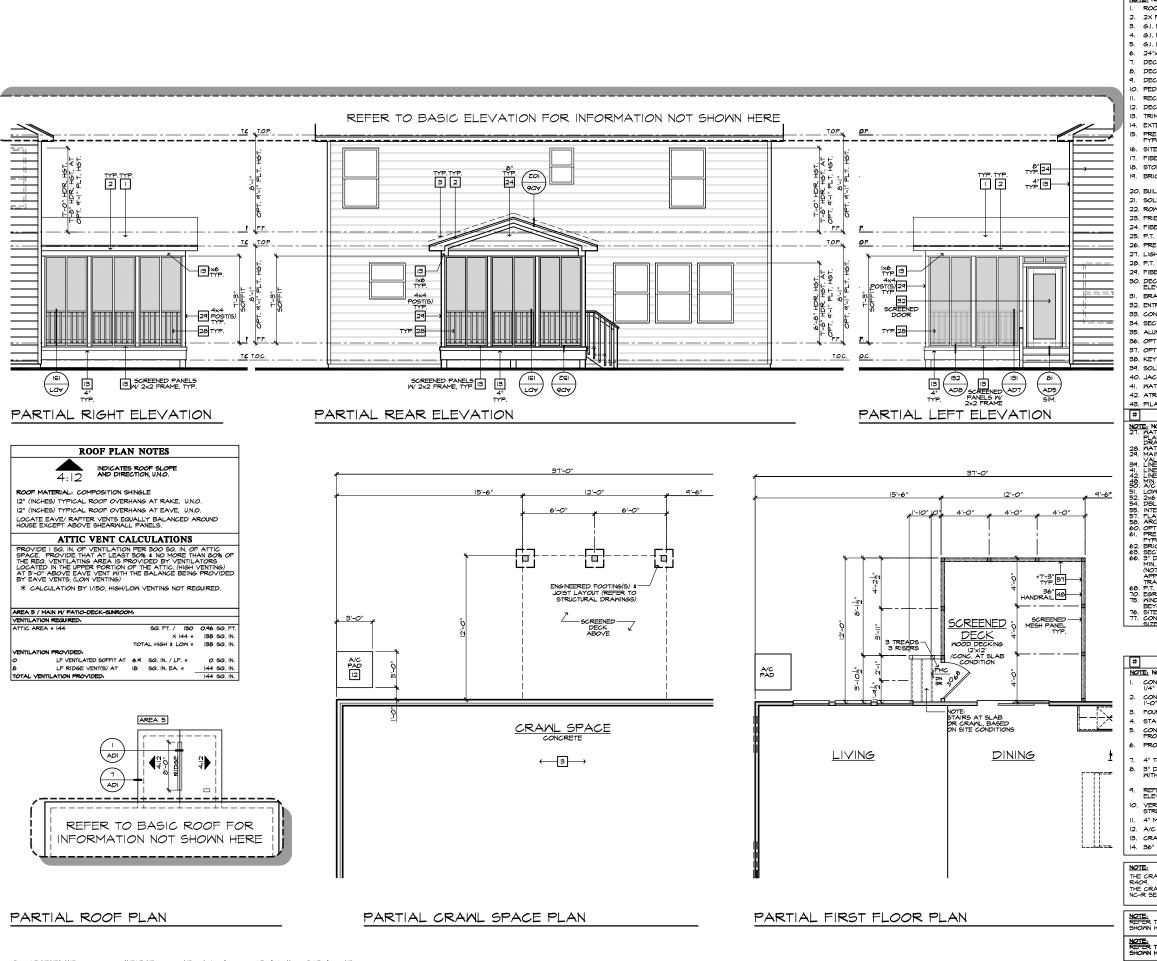
DIVISION REVISIONS NCI9052NCP- 08/02/18 FAE

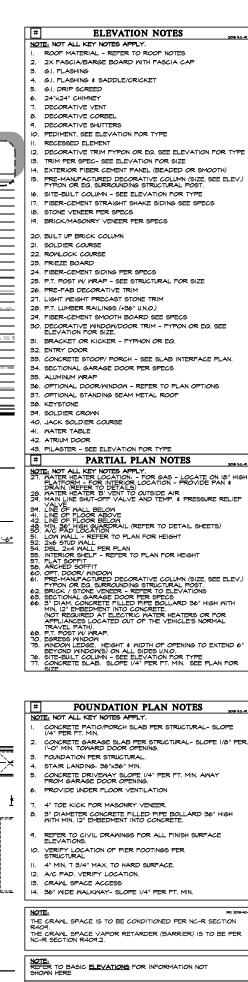
DIVISION REVISION NC21057NCP - 10/25/21 - KBA

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES









HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

DIVISION MGR.: DIVISION REVISIONS NCI90IINCP. 2/27/19 CTD

ISSUE DATE:

02/23/17

PROJECT No.: 1350999:56

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD DIVISION REVISION

NC21057NCP - 10725721 - KBA

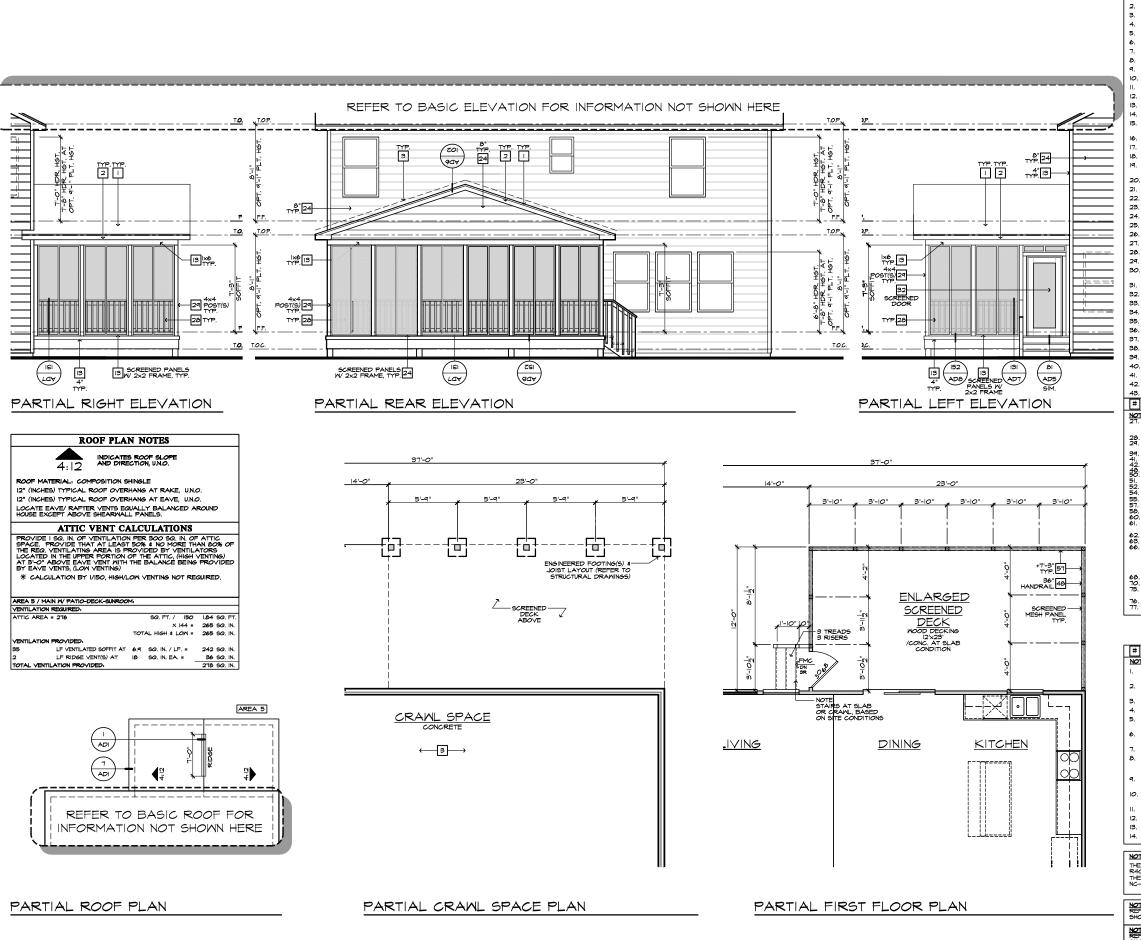
DIVISION REVISIONS NCI9052NCP- 08/02/18 FAE 7 DIVISION REVISIONS NC20017NCP- 03/02/20 KBA

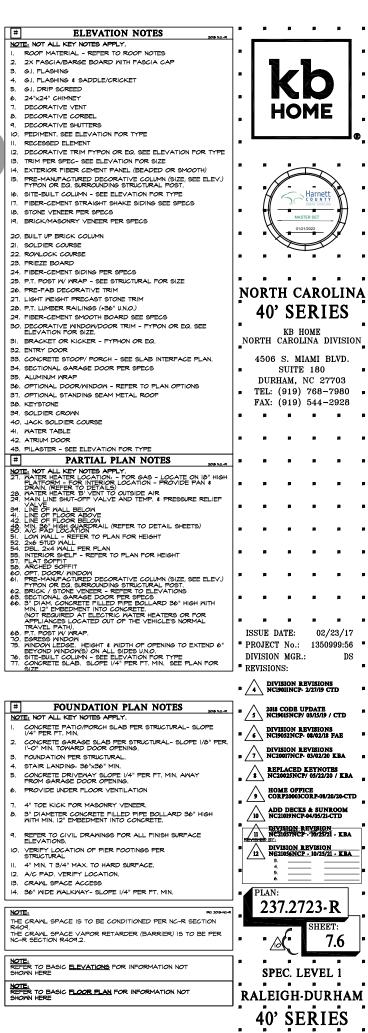
THE CRAML SPACE IS TO BE CONDITIONED PER NC-R SECTION R409.
THE CRAML SPACE VAPOR RETARDER (BARRIER) IS TO BE PER NC-R SECTION R409.2.

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

237.2723-R SHEET: 7.5

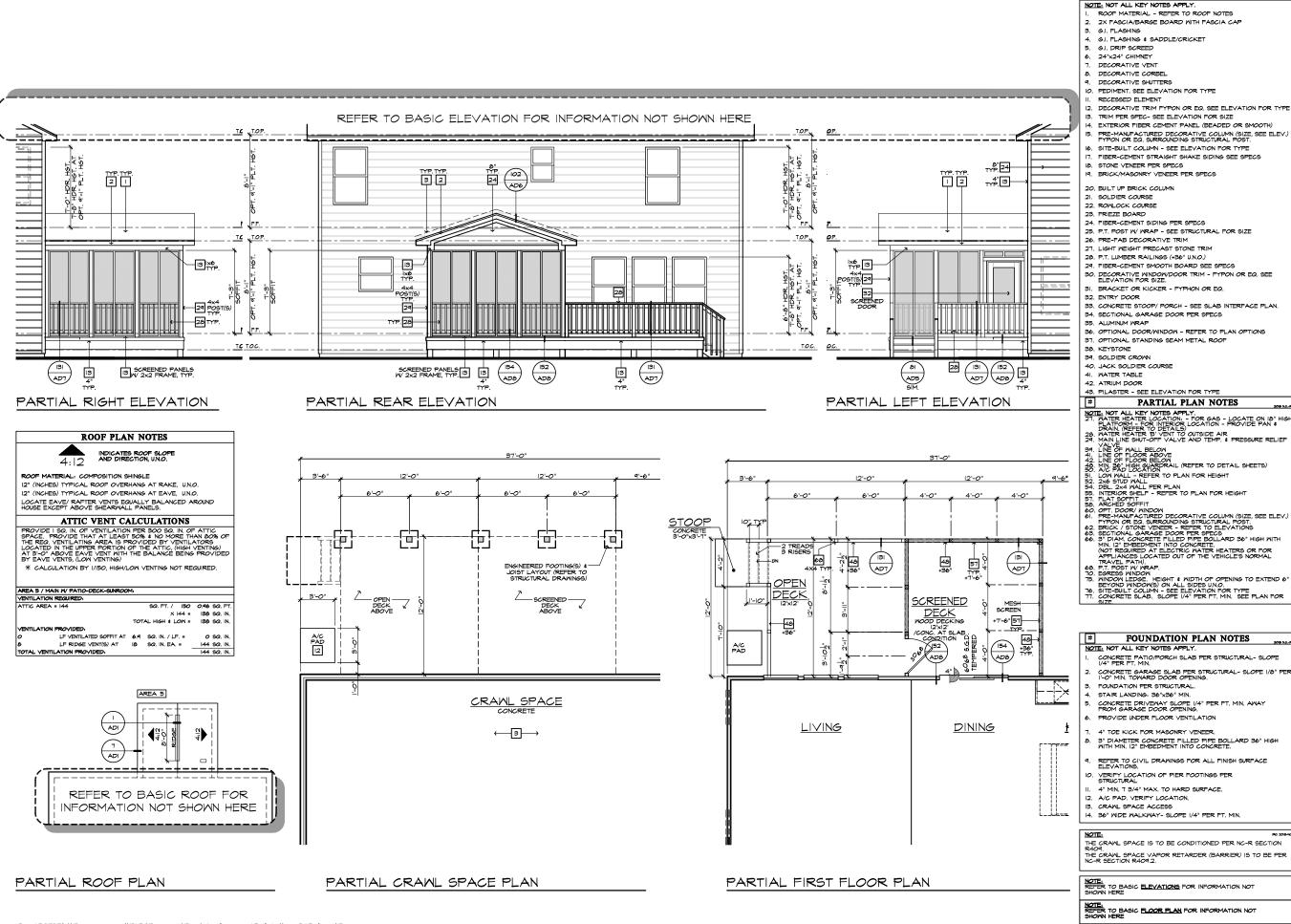
SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES





02/23/17

SHEET: 7.6



HOME **NORTH CAROLINA** 40' SERIES KB HOME NORTH CAROLINA DIVISION 4506 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7980 m FAX: (919) 544-2928

PARTIAL PLAN NO PARTIAL PLAN NOTES

ELEVATION NOTES

PROJECT No.: 1350999:56 DIVISION MGR.: DIVISION REVISIONS NCI90IINCP. 2/27/19 CTD

ISSUE DATE:

02/23/17

FOUNDATION PLAN NOTES NOTE: NOT ALL KEY NOTES APPLY.

CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN. CONCRETE GARAGE SLAB PER STRUCTURAL I'-O" MIN. TOWARD DOOR OPENING.

FOUNDATION PER STRUCTURAL.

. STAIR LANDING: 36"x36" MIN. CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.

PROVIDE UNDER FLOOR VENTILATION

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

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

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

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

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

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

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

237.2723-R SHEET: 7.7

DIVISION REVISIONS NCI9052NCP- 08/02/18 FAE

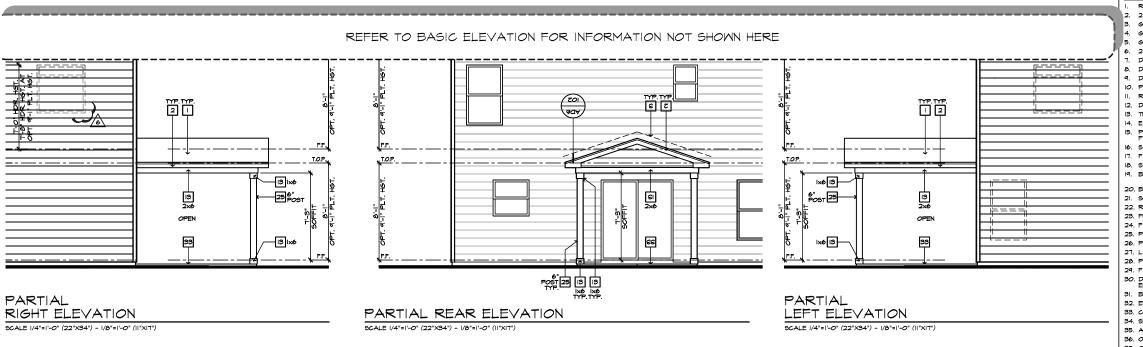
7 DIVISION REVISIONS NC20017NCP- 03/02/20 KBA

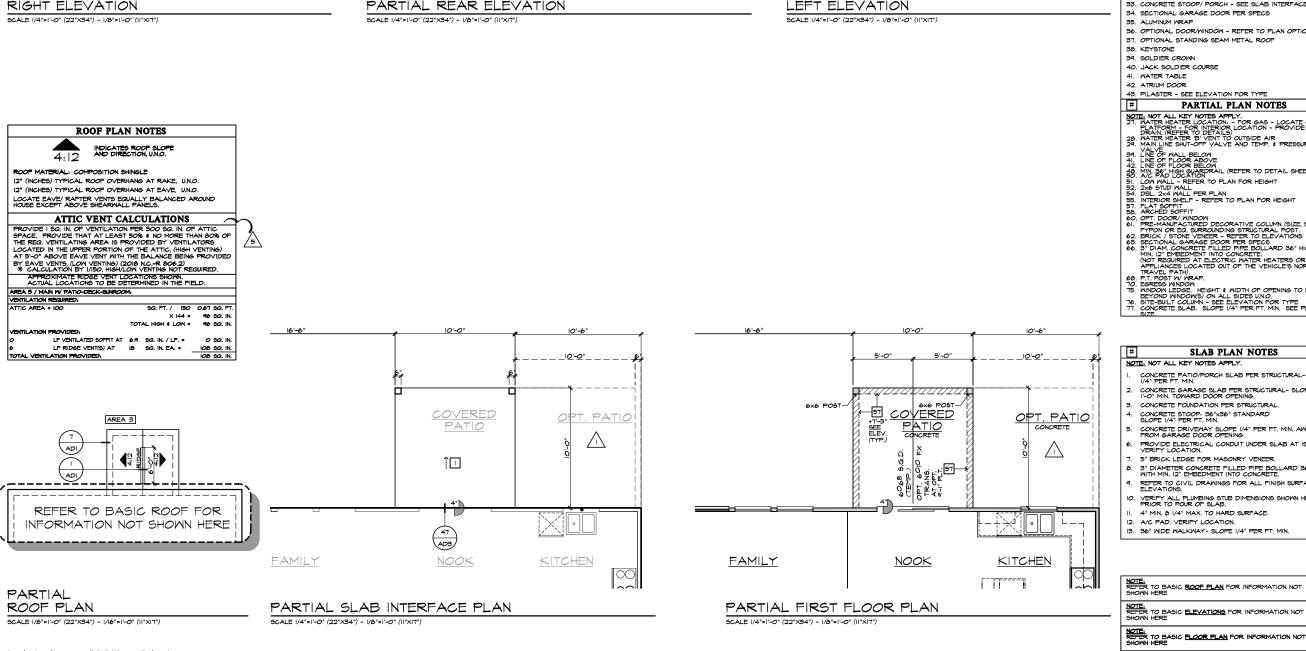
REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

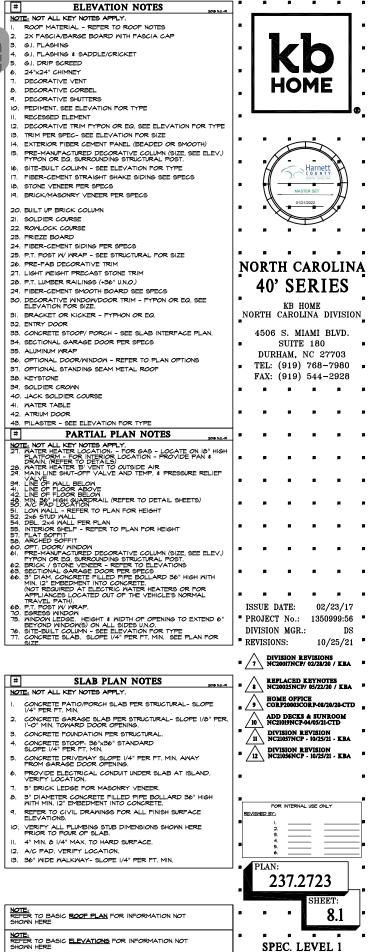
HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD DIVISION REVISION NC21057NCP - 10/25/21 - KBA

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

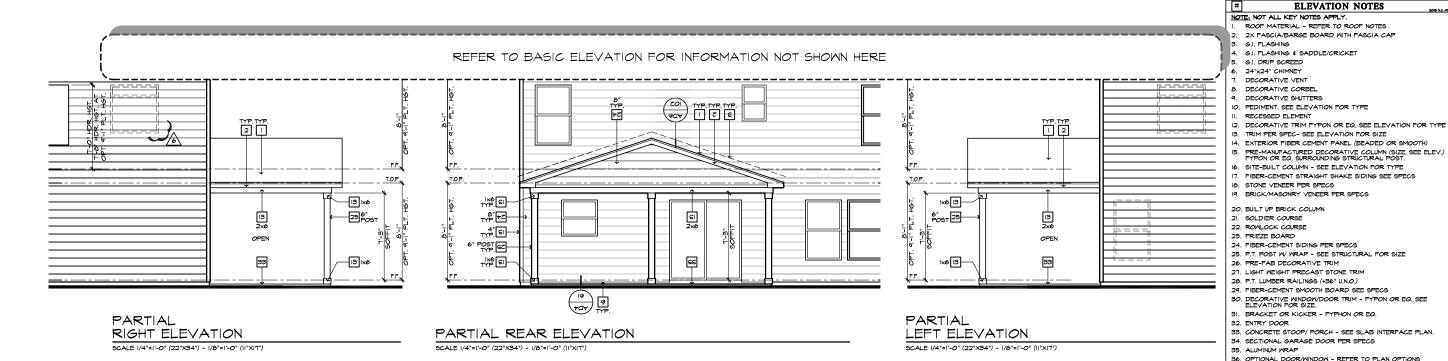


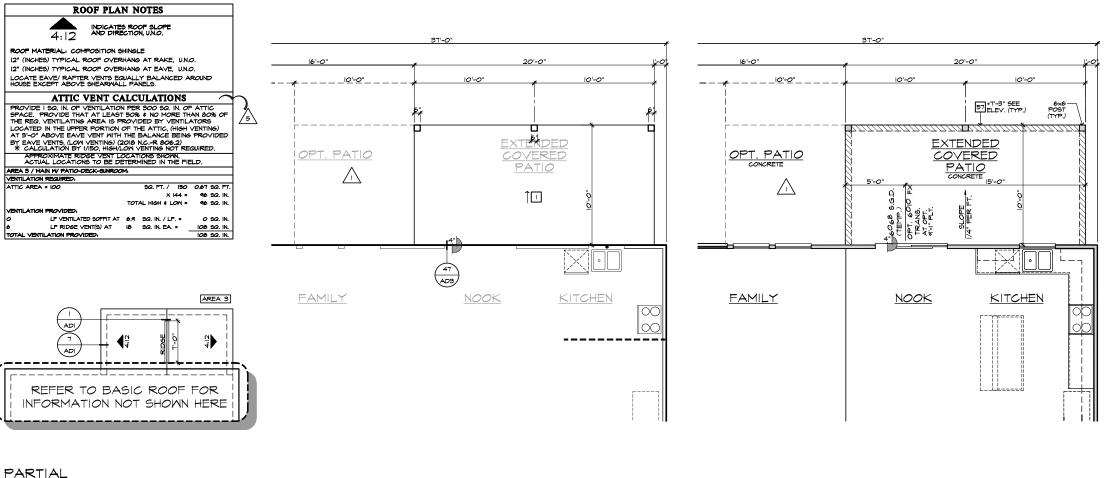




NOTE: REFER TO BASIC <u>SLAB PLAN</u> FOR INFORMATION NOT SHOWN HERE RALEIGH-DURHAM

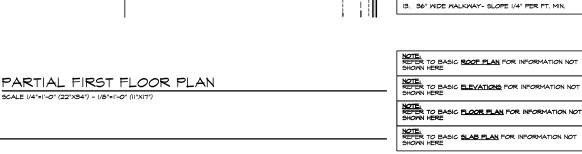
40' SERIES





PARTIAL SLAB INTERFACE PLAN

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



HOME



NORTH CAROLINA 40' SERIES

KB HOME NORTH CAROLINA DIVISION

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

43. PILASTER - SEE ELEVATION FOR TYPE PARTIAL PLAN NOTES

MOTE, NOT ALL KEY NOTES APPLY.

27. MATTER HEATTER LOCATION - FOR GAS - LOCATE ON 18" HIGH
PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN &
PRAIN (REFER TO DETAILS)

29. MATER HEATTER BY VENT TO OUTSIDE AIR

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

34. LINE OF PAUL BELOW

41. LINE OF FLOOR ABOVE

42. LINE OF FLOOR ABOVE

43. MIN 38" HIGH SWARDRAIM (REFER TO DETAIL SHEETS)

51. LOW MALL - REFER TO PI AN FOR HEIGHT

37. OPTIONAL STANDING SEAM METAL ROOF

38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE 4I. WATER TABLE 42. ATRIUM DOOR

5. MIN. 36" HIGH GLARDRAIL (REFER TO DETAIL SHEETS)

2. MC PAD LOCATION

3. LON WALL - REFER TO PLAN FOR HEIGHT

2. 246 STUD WALL

4. DEL. 234 WALL PER PLAN

5. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT

1. FLAT SOFFIFT

6. PRESENT OF SHELF - REFER TO PLAN FOR HEIGHT

1. FLAT SOFFIFT

6. PRESENT OF SHELF - REFER TO PLAN (SIZE, SEE ELEV.)

6. FRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)

6. FYPON OR EG. SURROUNDING STRUCTURAL POST.

2. BRICK / STONE VENEER - REFER TO ELEVATIONS

3. SECTIONAL GARAGE DOOR PER SPECS

6. 3° DIAM. CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH

MIN. 12" EMBEDDMENT INTO CONCRETE.

(NOT REQUIRED AT ELECTRIC WATER HEATERS OR FOR

APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL

TRAVEL PATH).

6. FIRESS MINDOW

7. FLOST W MRAP.

1. EGRESS MINDOW

1. SECOND HEIGHT & WIDTH OF OPENING TO EXTEND 6"

1. SITE-BULLT COLUMN - SEE ELEVATION FOR TYPE

1. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB.

SLAB PLAN NOTES

DIVISION MGR.: DS REVISIONS: 10/25/21 DIVISION REVISIONS
NC20017NCP/ 02/28/20 / KBA

DIVISION REVISION NC21057NCP - 10/25/21 - KBA

DIVISION REVISION NC21056NCP · 10/25/21 · KBA

FOR INTERNAL USE ONLY

237.2723

HEET:

8.2

02/23/17 PROJECT No.: 1350999:56

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

ISSUE DATE:

HOME OFFICE CORP20003CORP-08/20/20-CTD CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN. ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE $1/6^\circ$ PER $1'\text{-}0^\circ$ MIN. TOWARD DOOR OPENING.

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

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

5" BRICK LEDGE FOR MASONRY VENEER.

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

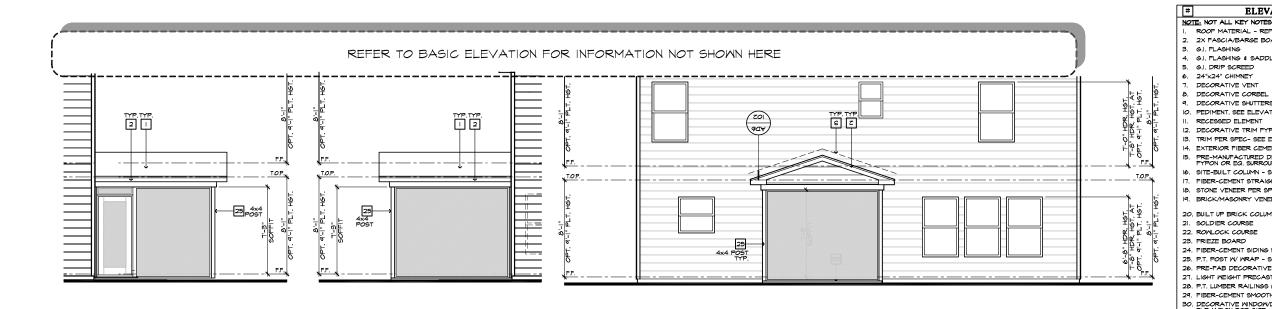
IO. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.

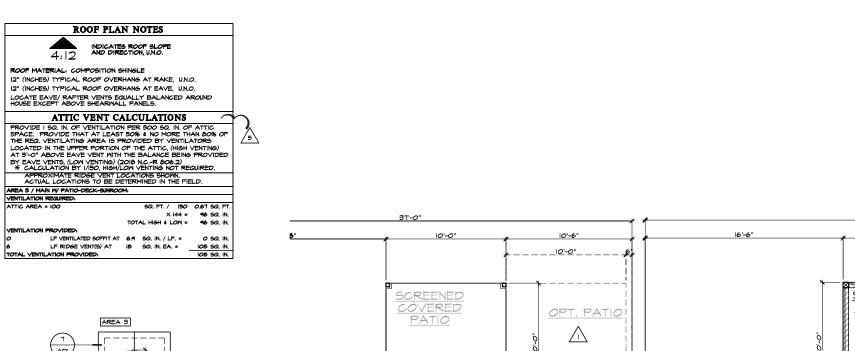
4" MIN. 8 I/4" MAX. TO HARD SURFACE. 12. A/C PAD. VERIFY LOCATION.

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

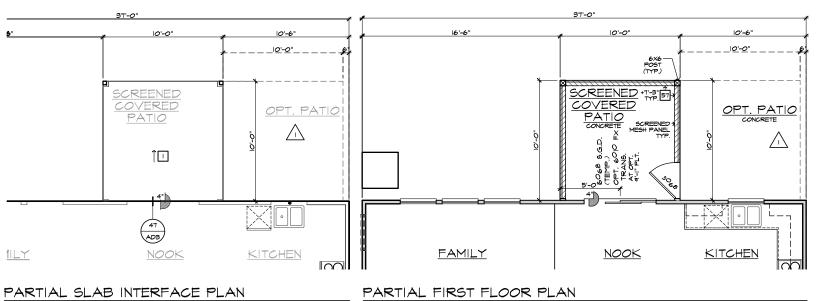
ROOF PLAN

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





PARTIAL RIGHT ELEVATION



PARTIAL REAR ELEVATION

ELEVATION NOTES NOTE: NOT ALL KEY NOTES APPLY. ROOF MATERIAL - REFER TO ROOF NOTES 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP 4. G.I. FLASHING & SADDLE/CRICKET HOME IO. PEDIMENT, SEE ELEVATION FOR TYPE 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE TRIM PER SPEC- SEE ELEVATION FOR SIZE
 EXTERIOR FIBER CEMENT PANEL (BEADED OR SMOOTH, PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST. 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE IT. FIBER-CEMENT STRAIGHT SHAKE SIDING SEE SPECS 18. STONE VENEER PER SPECS 19. BRICK/MASONRY VENEER PER SPECS 24. FIBER-CEMENT SIDING 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 28. P.T. LUMBER RAILINGS (+36" U.N.O.) 40' SERIES 29. FIBER-CEMENT SMOOTH BOARD SEE SPECS 30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE. KB HOME 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 180 35. ALUMINUM WRAP DURHAM, NC 27703 36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS TEL: (919) 768-7980 m 37. OPTIONAL STANDING SEAM METAL ROOF FAX: (919) 544-2928 38. KEYSTONE 39. SOLDIER CROWN 40. JACK SOLDIER COURSE 4I. WATER TABLE 42. ATRIUM DOOR 43. PILASTER - SEE ELEVATION FOR TYPE PARTIAL PLAN NOTES MOTE, NOT ALL KEY NOTES APPLY.

27. MATTER HEATTER LOCATION - FOR GAS - LOCATE ON 18" HIGH
PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN &
PRAIN (REFER TO DETAILS)

29. MATER HEATTER BY VENT TO OUTSIDE AIR

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

34. LINE OF PAUL BELOW

41. LINE OF FLOOR ABOVE

42. LINE OF FLOOR ABOVE

43. MIN 38" HIGH SWARDRAIM (REFER TO DETAIL SHEETS)

51. LOW MALL - REFER TO PI AN FOR HEIGHT 5. MIN. 36" HIGH GLARDRAIL (REFER TO DETAIL SHEETS)

2. MC PAD LOCATION

3. LON WALL - REFER TO PLAN FOR HEIGHT

2. 246 STUD WALL

4. DEL. 234 WALL PER PLAN

5. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT

1. FLAT SOFFIFT

6. PRESENT OF SHELF - REFER TO PLAN FOR HEIGHT

1. FLAT SOFFIFT

6. PRESENT OF SHELF - REFER TO PLAN (SIZE, SEE ELEV.)

6. FRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.)

6. FYPON OR EG. SURROUNDING STRUCTURAL POST.

2. BRICK / STONE VENEER - REFER TO ELEVATIONS

3. SECTIONAL GARAGE DOOR PER SPECS

6. 3° DIAM. CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH

MIN. 12" EMBEDDMENT INTO CONCRETE.

(NOT REQUIRED AT ELECTRIC WATER HEATERS OR FOR

APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL

TRAVEL PATH).

6. FIRESS MINDOW

7. FLOST W MRAP.

1. EGRESS MINDOW

1. SECOND HEIGHT & WIDTH OF OPENING TO EXTEND 6"

1. SITE-BULLT COLUMN - SEE ELEVATION FOR TYPE

1. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

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5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. SLOPE 1/4" PER FT. MIN. SEE PLAN FOR

5. JIC. CONCRETE SLAB. ISSUE DATE: 02/23/17 PROJECT No.: 1350999:56 DIVISION MGR.: REVISIONS: 10/25/21 DIVISION REVISIONS
NC20017NCP/ 02/28/20 / KBA **SLAB PLAN NOTES** REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA NOTE: NOT ALL KEY NOTES APPLY HOME OFFICE CORP20003CORP-08/20/20-CTD CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE I/4" PER FT. MIN. ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE $1/6^\circ$ PER $1'\text{-}0^\circ$ MIN. TOWARD DOOR OPENING. CONCRETE FOUNDATION PER STRUCTURAL DIVISION REVISION NC21057NCP - 10/25/21 - KBA CONCRETE STOOP: 36"x36" STANDARD SLOPE I/4" PER FT. MIN. DIVISION REVISION NC21056NCP · 10/25/21 · KBA CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING. PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION. 5" BRICK LEDGE FOR MASONRY VENEER. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. FOR INTERNAL USE ONLY REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS. O. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB. I. 4" MIN. 8 I/4" MAX. TO HARD SURFACE. 12. A/C PAD. VERIFY LOCATION. 13. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN 237.2723 SHEET: NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE 8.3 NOTE: REFER TO BASIC <u>ELEVATIONS</u> FOR INFORMATION NOT SHOWN HERE SPEC. LEVEL 1 NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE RALEIGH-DURHAM 40' SERIES NOTE: REFER TO BASIC <u>SLAB PLAN</u> FOR INFORMATION NOT SHOWN HERE

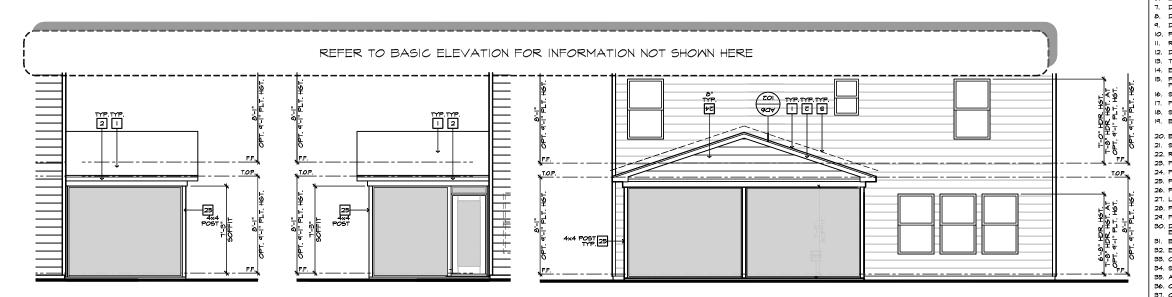
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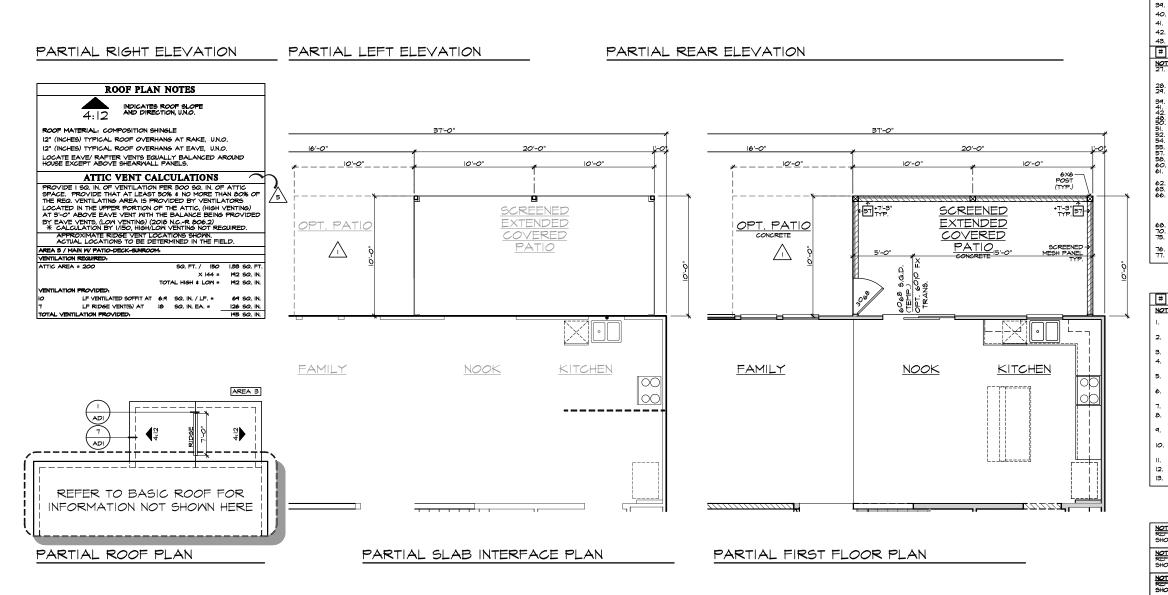
PARTIAL ROOF PLAN

REFER TO BASIC ROOF FOR

INFORMATION NOT SHOWN HERE

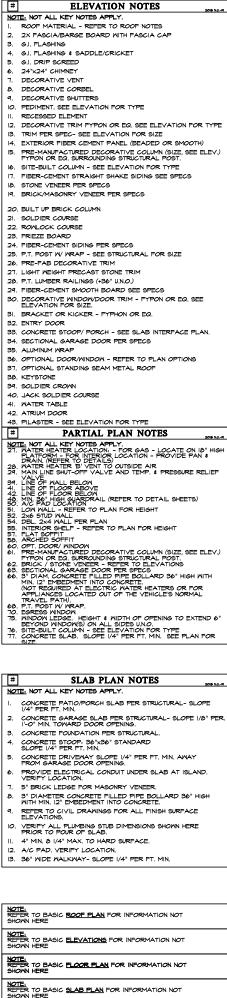
PARTIAL RIGHT ELEVATION

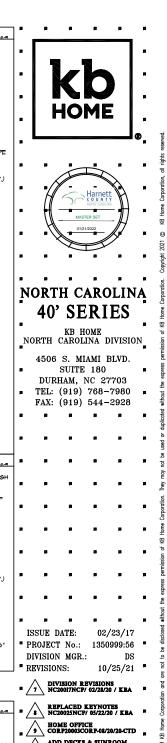




20'XIO' COVERED SCREENED PATIO AT SLAB ON GRADE

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





DIVISION REVISION NC21057NCP - 10/25/21 - KBA

DIVISION REVISION NC21056NCP - 10/25/21 - KBA

237.2723

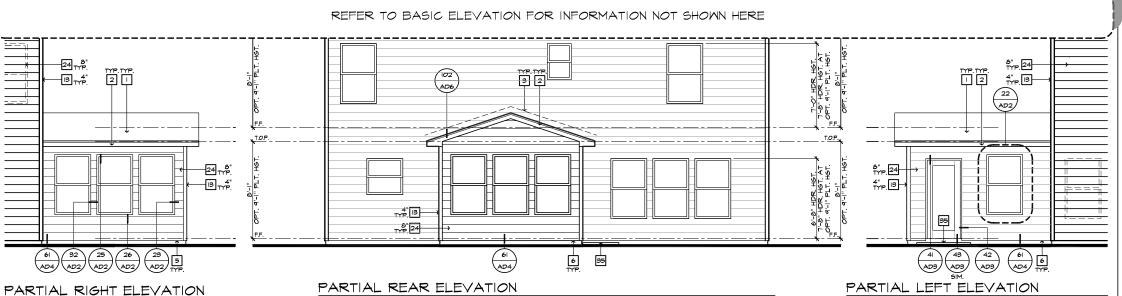
SPEC. LEVEL 1

RALEIGH-DURHAM

40' SERIES

SHEET:

8.4





ROOF MATERIAL: COMPOSITION SHINGLE

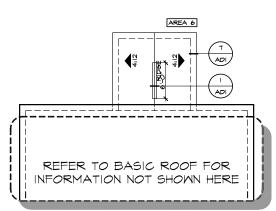
12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O. 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O. LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARMALL PANELS.

ATTIC VENT CALCULATIONS

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

* CALCULATION BY 1/150, HIGH/LOW VENTING NOT REQUIRED.

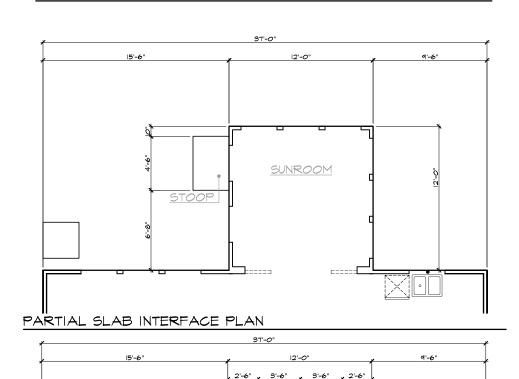
AREA 5 / MAIN W PATIO-DECK-SURROOM: VENTILATION REQUIRED; ATTIC AREA = 100 5Q. FT. / I5Q 0.67 SQ. F X 144 = 96 5Q. IN TOTAL HIGH & LOW = 96 5Q. IN LF VENTILATED SOFFIT AT 6.4 SQ. IN. / LF. = 6 LF RIDGE VENTIS) AT 18 SQ. IN. EA. = 108 SQ. IN. TOTAL VENTILATION PROVIDED: 108 SQ. IN.



PARTIAL ROOF PLAN

SUNROOM AT SLAB ON GRADE

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



SUNROOM

STOOP CONCRETE 3'-0"×4'-6" 3050 SH

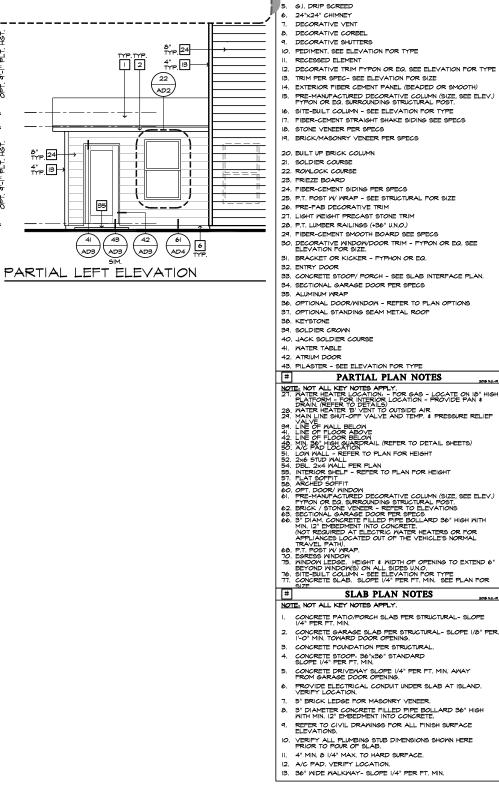
A/C PAD

PARTIAL FIRST FLOOR PLAN

3050 SH

3050 SH.

3050 SH,







NORTH CAROLINA 40' SERIES

кв номе NORTH CAROLINA DIVISION

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

02/23/17

PROJECT No.: 1350999:56

DIVISION REVISIONS NCI9011NCP- 2/27/19 CTD

2018 CODE UPDATE NCI90I5NCP/ 03/I5/I9 / CTD

DIVISION REVISIONS NCI9052NCP- 08/02/12 FAR

DIVISION REVISIONS NC20017NCP: 03/02/20 KBA

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

9 HOME OFFICE CORP20003CORP-08/20/20-CTD

ADD DECKS & SUNROOM

DIVISION REVISION NC21037NCF - 10/25/21 - KBA

9.1

ISSUE DATE:

REVISIONS:

DIVISION MGR.:

PARTIAL PLAN NOTES

ELEVATION NOTES

NOTE: NOT ALL KEY NOTES APPLY.

. G.I. FLASHING & SADDLE/CRICKET

G.I. FLASHING

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

SLAB PLAN NOTES

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

CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE I/6" PEI I'-O" MIN, TOWARD DOOR OPENING.

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

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

5" BRICK I EDGE FOR MASONRY VENEER

REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.

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

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

12. A/C PAD, VERIFY LOCATION.

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

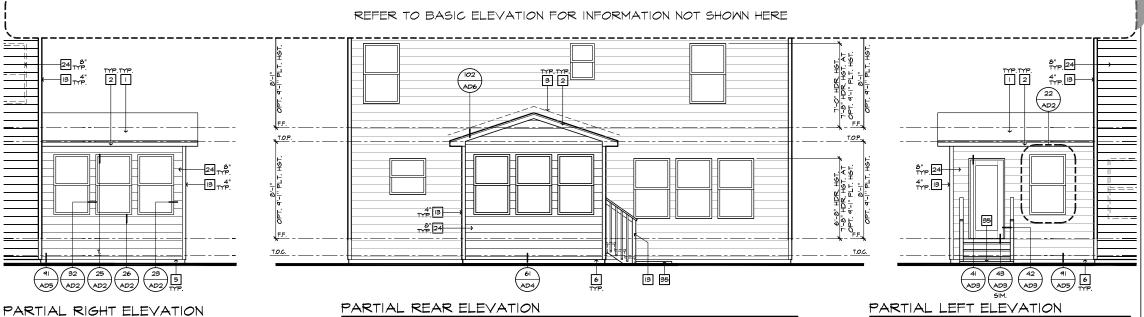
237.2723-R SHEET:

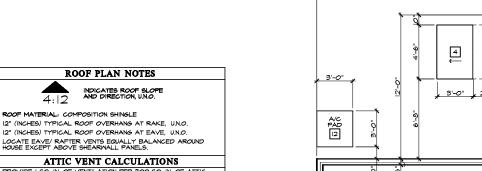
NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE

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

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

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

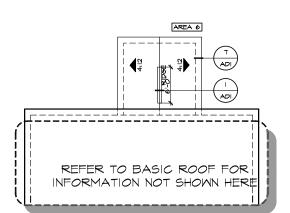




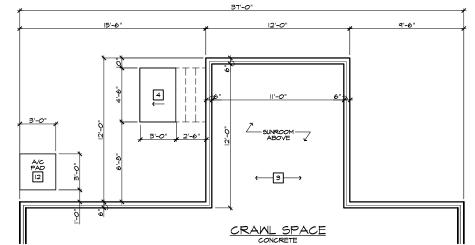
PROVIDE I 50, IN. OF VENTILATION PER 300 50, IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATING LOCATED IN THE UPPER PORTION OF THE ATTIC, (HIGH VENTING) AT 3'-0' ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED BY EAVE VENTS, (LOW VENTING) * CALCULATION BY 1/150, HIGH/LOW VENTING NOT REQUIRED. AREA 3 / MAIN W PATIO-DECK-SUNROOM: VENTILATION REQUIRED: ATTIC AREA = 144 5Q. FT. / I5Q 0.96 SQ. F X 144 = 138 SQ. IN TOTAL HIGH & LOW = 138 SQ. IN

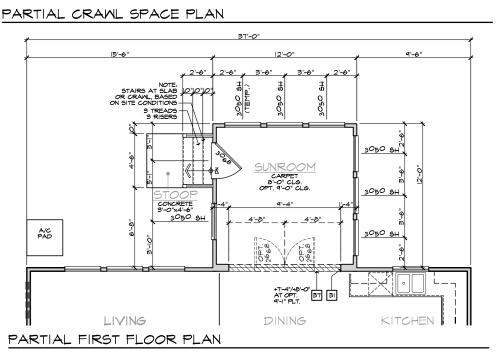
8 LF RIDGE VENTIS) AT 18 SQ. IN. EA. = 144 SQ. IN. TOTAL VENTILATION PROVIDED: 144 SQ. IN.

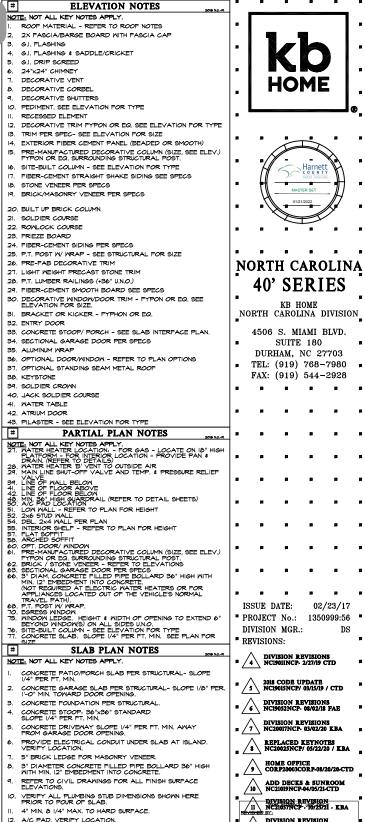
LF VENTILATED SOFFIT AT 6.9 SQ. IN. / LF. = Q SQ. IN



PARTIAL ROOF PLAN







237.2723-R SHEET: 9.2

HOME

40' SERIES

кв номе

4506 S. MIAMI BLVD.

SUITE 180

DURHAM, NC 27703

TEL: (919) 768-7980

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02/23/17

PROJECT No.: 1350999:56

DIVISION REVISIONS NCISOIINCP: 2/27/19 CTD

2018 CODE UPDATE NCI9015NCP/ 03/15/19 / CTD

DIVISION REVISIONS NCI9052NCP- 08/02/12 FAR

REPLACED KEYNOTES NC20025NCP/ 05/22/20 / KBA

ADD DECKS & SUNROOM NC21019NCP-04/05/21-CTD

DIVISION REVISION NC21037NCF - 10/25/21 - KBA

ISSUE DATE:

REVISIONS:

DIVISION MGR.:

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

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

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

STRUCTURAL PLANS FOR:



237.2723 - RH GARAGE

| PLAN RELEASE / REVISIONS | | | | |
|--------------------------|---------------------------|--|------|--|
| REV. DATE | ARCH PLAN VERSION | REVISION DESCRIPTION | DRFT | |
| 01/03/2019 | 237.2723 LH 2018-05-04 | 2018 NORTH CAROLINA RESIDENTIAL CODE UPDATE, NEW DRAWING TEMPLATE | CAR | |
| 11/14/2019 | 237.2723 RH 2019.08.02 | UPDATED FLOOR PLANS PER ARCH DELTA 6; REVISED REAR OPTIONS | CAR | |
| 10/07/2020 | 2790-249-01350-ABCD | UPDATED REAR COVERED/SCREENED PATIO OPTIONS; RELOCATING REAR POSTS/BEAMS | ABS | |
| 12/10/2020 | 237.2723 LH D9 2020.08.20 | ADDED CRAWL SPACE FOUNDATION PLAN | ABS | |
| 05/18/2021 | 237.2723 LH D9 2020.08.20 | ADDED STEM WALL FOUNDATION AND THE SLAB FIBER NOTES | ABS | |
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NOTES

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

CODE

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

2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE

ENGINEER OF RECORD

JDS Consulting, PLLC

DESIGN · ENGINEERING · SURVEYING · ENERGY

8600 'D' JERSEY COURT

RALEIGH, NC 27617

FIRM LIC. NO: P-0961

PROJECT REFERENCE: 21901129



Harnett COUNTY SOUR CHESTS MASTER SET 01/21/2022

KB HOME
 NORTH CAROLINA DIVISION

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

SEAL TO STATE OF THE SEAL THE

P-0961

JDS Consulting, PLLC HAS PERFORMED A STRUCTURAL REVIEW OF THESE PLANS. THE STRUCTURAL COMPONENTS COMPLY WITH THE SO18 NORTH CAROLINA RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS FOR NC PLAN REVIEW. DEVIATION OF ANY STRUCTURAL REQUIREMENTS OF THESE PLANS WITHOUT THE APPROVAL OF THE EOR IS PROHIBITED.



8600 TO JERSEY CT, RALEIGH, NC 27617;919.480.1075
INFO@JDSCONSULTING NET; WWW.JDSCONSULTING.N
PROJECT NO.: 21901129
DATE: 05/19/2021

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237.2723

TITLE SHEET

T

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

GENERAL

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

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

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

DESIGN LOADS

GUARDS AND HANDRAILS

| ASSUMED SOIL BEARING-CAPACITY | 2,000 PSF |
|-------------------------------|-----------|
| | LIVE LOAD |

ACCUMED COLL DEADING CARACITY

| 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 |
| | |

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.

200 (pounds, concentrated)

| | ABBR | EVIATIONS | KS | KING STUD COLUMN |
|----------|------|-----------------------|------------------|------------------------|
| <u> </u> | | LVL | LAMINATED VENEER | |
| | ABV | ABOVE | | LUMBER |
| | AFF | ABOVE FINISHED FLOOR | MAX | MAXIMUM |
| | ALT | ALTERNATE | MECH | MECHANICAL |
| | BRG | | MFTR | MANUFACTURER |
| | BSMT | BASEMENT | MIN | MINIMUM |
| | CANT | CANTILEVER | NTS | NOT TO SCALE |
| | CJ | CEILING JOIST | OA | OVERALL |
| | CLG | CEILING | ОС | ON CENTER |
| | CMU | CONCRETE MASONRY UNIT | PT | PRESSURE TREATED |
| | CO | CASED OPENING | R | RISER |
| | COL | COLUMN | REF | REFRIGERATOR |
| | CONC | | RFG | ROOFING |
| | CONT | CONTINUOUS | RO | ROUGH OPENING |
| | D | CLOTHES DRYER | RS | ROOF SUPPORT |
| | DBL | DOUBLE | SC | STUD COLUMN |
| | DIAM | DIAMETER | SF | SQUARE FOOT (FEET) |
| | DJ | DOUBLE JOIST | SH | SHELF / SHELVES |
| | DN | DOWN | SHTG | |
| | DP | DEEP | SHW | |
| | DR | DOUBLE RAFTER | SIM | |
| | DSP | DOUBLE STUD POCKET | SJ | SINGLE JOIST |
| | EA | EACH | SP | STUD POCKET |
| | EE | EACH END | | SPECIFIED |
| | EQ | EQUAL | SQ | SQUARE |
| | EX | EXTERIOR | T | TREAD |
| | FAU | FORCED-AIR UNIT | TEMP | TEMPERED GLASS |
| | FDN | FOUNDATION | THK | THICK(NESS) |
| | FF | FINISHED FLOOR | TJ | TRIPLE JOIST |
| | FLR | FLOOR(ING) | 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 |
| | | | ΧJ | EXTRA JOIST |

MATERIALS

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

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

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

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

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

Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI

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

Fb = 2900 PSI Fv = 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

- STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fy = 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 C270
- 12. INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND. EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE
- 13. REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.

FOUNDATION

- MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EVIST.
- 2. CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318
- 3. MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 AND/OR AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND/OR THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.
- 4. CONCRETE WALL HORIZONTAL REINFORCEMENT TO BE PER TABLE R404.1.2(1) OR AS NOTED OR DETAILED. CONCRETE WALL VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.2(3 AND 4) OR AS NOTED OR DETAILED. ALL CONCRETE WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
 - A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
 - B. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.
- 5. PLAIN-MASONRY WALL DESIGN TO BE PER TABLE R404.1.1(1) OR AS NOTED OR DETAILED. MASONRY WALLS WITH VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.1 (2 THROUGH 4) OR AS NOTED OR DETAILED. ALL MASONRY WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
 - A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
 - B. WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT CENTERED IN WALL).
 - C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.
- 6. WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" OC AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE 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 DIEDS
- 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

- ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.
- 2. ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.
- NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.
- 4. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- 5. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
- 6. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
- 7. PORCH / PATIO COLUMNS TO BE 4x4 MINIMUM PRESSURE-TREATED LUMBER.
 - A. ATTACH PORCH COLUMNS TO SLAB / FDN WALL USING ABA ABU, ABW, OR CPT SIMPSON POST BASES TO FIT COLUMN SIZES NOTED ON PLAN - OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
 - B. ATTACH PORCH COLUMNS TO PORCH BEAMS USING AC OR BC SIMPSON POST CAPS TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
 - C. TRIM OUT COLUMN(S) AND BEAM(S) PER BUILDER AND DETAILS.
- 8. ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.
- ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:
 A. SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND
 - COORDINATION BEFORE CONSTRUCTION.

 B. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
 - C. INSTALLATION OF THE SYSTEMS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
 - D. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.
- 10. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS. UNO.
- 11. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS. UNO.
- 12. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.
- 13. WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 12" OC, STAGGERED TOP AND BOTTOM, 1 1/2" MIN FROM ENDS. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE MANUFACTURER SPECIFICATIONS).
- 14. FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).
- 15. FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.
- 16. BRACED WALL PANELS SHALL BE FASTENED TO MEET THE UPLIFT-RESISTANCE REQUIREMENTS IN CHAPTERS 6 AND 8 OF THE APPLICABLE CODE (SEE TITLE SHEET). REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM SHALL BE MET.





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NORTH CAROLINA DIVISION

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P-0961

JDS Consulting, PLLC HAS PERFORMED A
STRUCTURAL REVIEW OF THESE PLANS. THE
STRUCTURAL COMPONENTS COMPLY WITH THE
2018 NORTH CAROLINA RESIDENTIAL CODE FOR
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REQUIREMENTS OF THESE PLANS WITHOUT THE
APPROVAL OF THE EOR IS PROHIBITED.



8600 'D' JERSEY CT, RALEIGH, NC 27617;919.480.1075 FO@JDSCONSULTING.NET; WWW.JDSCONSULTING.NI PROJECT NO.: 21901129

DATE: 05/19/2021

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237.2723

GENERAL NOTES

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GN1.0

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

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

DETAILS AND NOTES ON DRAWINGS GOVERN.

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

| FRAMING MEMBER SIZE | MAX HEIGHT (PLATE TO PLATE) 115 MPH ULTIMATE DESIGN WIND SPEED |
|---------------------|---|
| 2x4 @ 16" OC | 10'-0" |
| 2x4 @ 12" OC | 12'-0" |
| 2x6 @ 16" OC | 15'-0" |
| 2x6 @ 12" OC | 17'-9" |
| 2x8 @ 16" OC | 19'-0" |
| 2x8 @ 12" OC | 22'-0" |
| (2) 2x4 @ 16" OC | 14'-6" |
| (2) 2x4 @ 12" OC | 17'-0" |
| (2) 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
- 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

- 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.



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,
 INTERS NOTED OTHERWISE
- 8. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

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

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

NOTE: BRICK LINTELS AT SLOPED AREAS TO BE 4"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.





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



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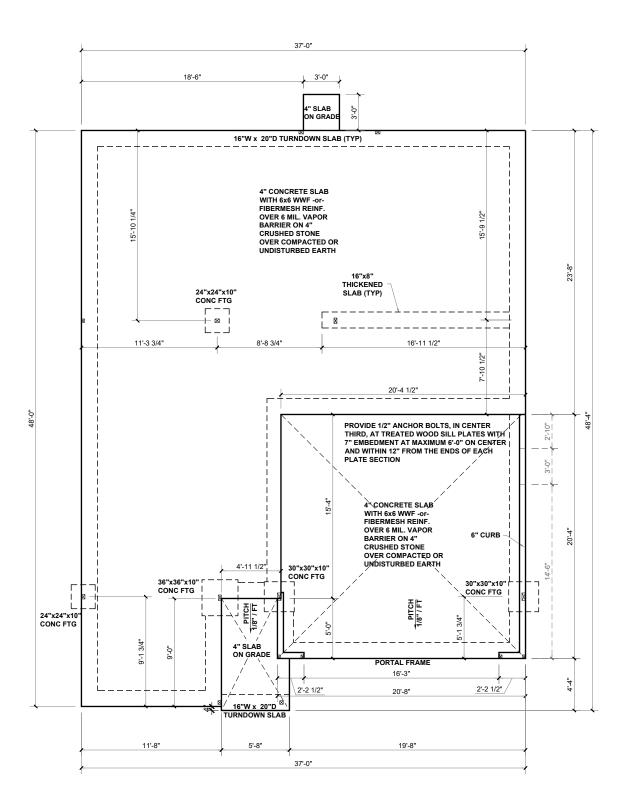
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GENERAL NOTES

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SLAB FOUNDATION PLAN - 'A'

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

INTERIOR LOAD BEARING WALL - - ROOF RAFTER / TRUSS SUPPORT

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

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

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

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON

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





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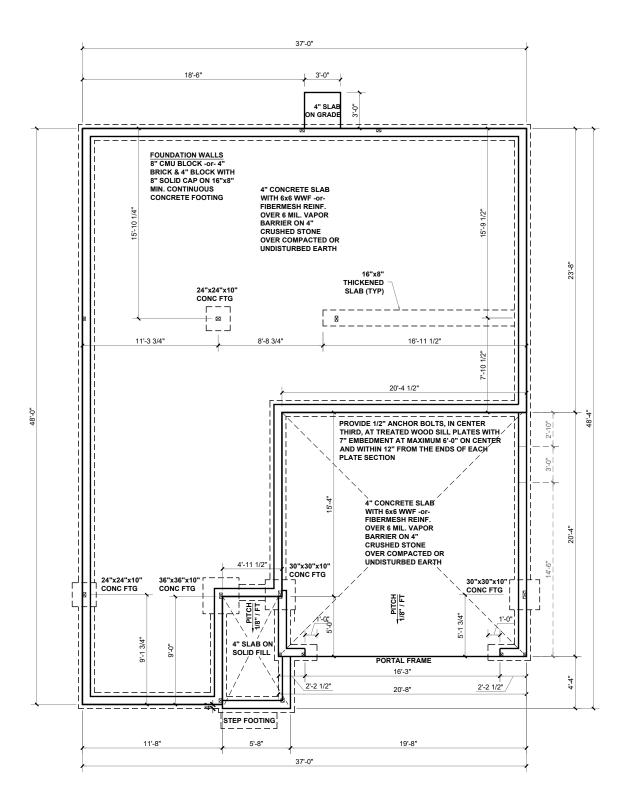


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SLAB FOUNDATION PLAN



INTERIOR LOAD BEARING WALL

- - ROOF RAFTER / TRUSS SUPPORT

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

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON RAISED METAL DECKING
 NO SUBSTITUTION ALLOWED IN SLABS WITH GRADE
 BEAMS UNLESS A REBAR MAT IS INSTALLED
 NO SUBSTITUTION ALLOWED IF ANY SOILS HAVE BEEN
 FOUND TO BE EXPANSIVE SOILS ON SITE
 NO SUBSTITUTION ALLOWED FOR SLAB POURS
 DIRECTLY ON GRADE; A 4" BASE MATERIAL OF
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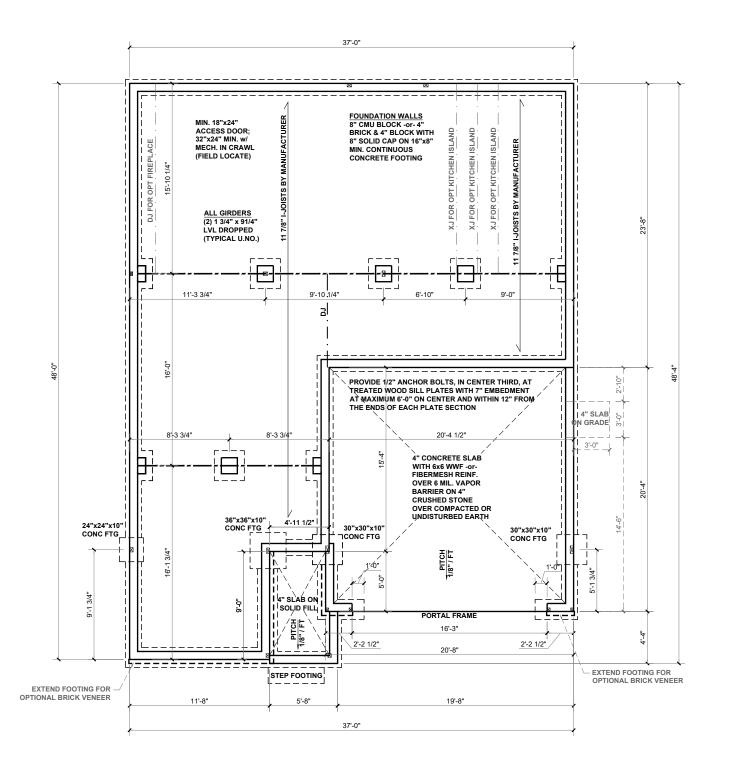
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STEMWALL FOUNDATION PLAN

STEMWALL FOUNDATION PLAN - 'A'



BEAM & POINT LOAD LEGE

STRUCTURAL BEAM / GIRDER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

FOUNDATION STRUCTURAL NOTES:

1. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE HOLLOW MASONRY SOLID MASONRY

0816 UP 10 32 HIGH UP 10 3-0 HIGH 12x16 UP TO 48" HIGH UP TO 9:0" HIGH 16x16 UP TO 64" HIGH UP TO 12'-0" HIGH 24x24 UP TO 96" HIGH

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

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

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

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

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

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





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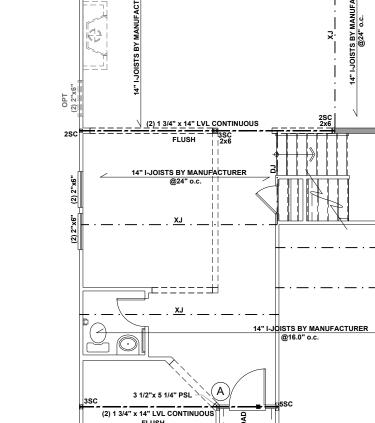
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CRAWL SPACE FOUNDATION PLAN

S.30A

CRAWL SPACE FOUNDATION PLAN - 'A'



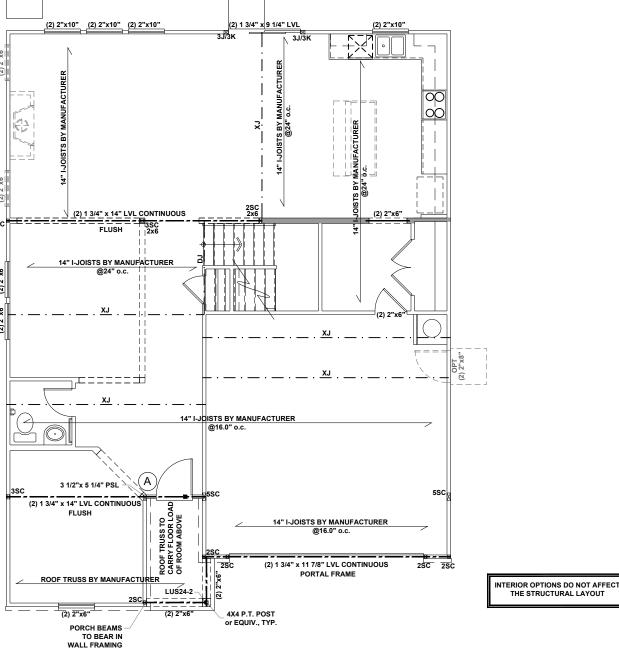
- BEAM AS SPECIFIED

(A) DIRECT STUD BEARING

1-1/2" W, 16" L., 18 GA. STRAP (EACH SIDE) DIRECT BEARING COLUMN AS SPECIFIED

ADDTIONAL SUPPORT STUDS PER PLAN

INSTALL HORIZ SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXT WALL), ON BOTH FACES (INT WALL)



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

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

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

EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.

(1) K, UNO.

STRUCTURE FOR ALL POINT LOADS.

TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

ALL EXTERIOR WALLS TO BE FULLY SHEATHED

FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED A BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

WHEN A 4-PLY LVL IS USED. ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT **EQUIVALENT METHOD MAY BE USED, SUCH AS** MANUFACTURER'S SPECIFICATIONS).

CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

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

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

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

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



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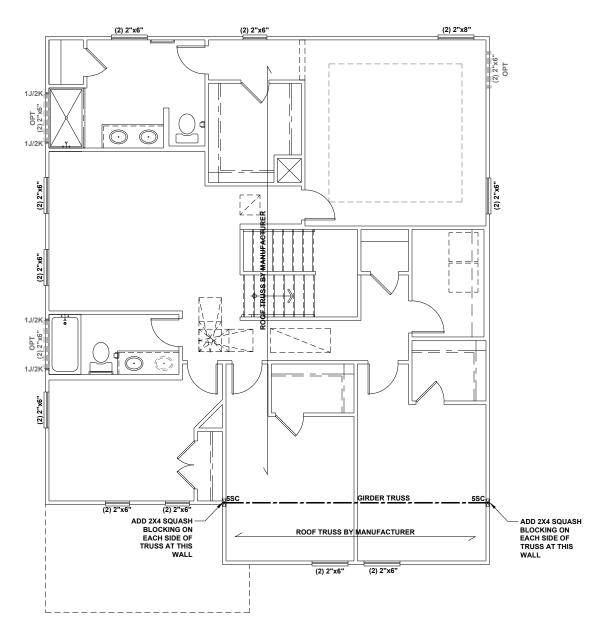
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FIRST FLOOR CEILING FRAMING PLAN

FIRST FLOOR CEILING FRAMING PLAN - 'A'

SECOND FLOOR INTERIOR OPTIONS DO NOT AFFECT THE STRUCTURAL LAYOUT



BEAM & POINT LOAD LEGENI

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

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



Harnett
C.V. N. T. V.

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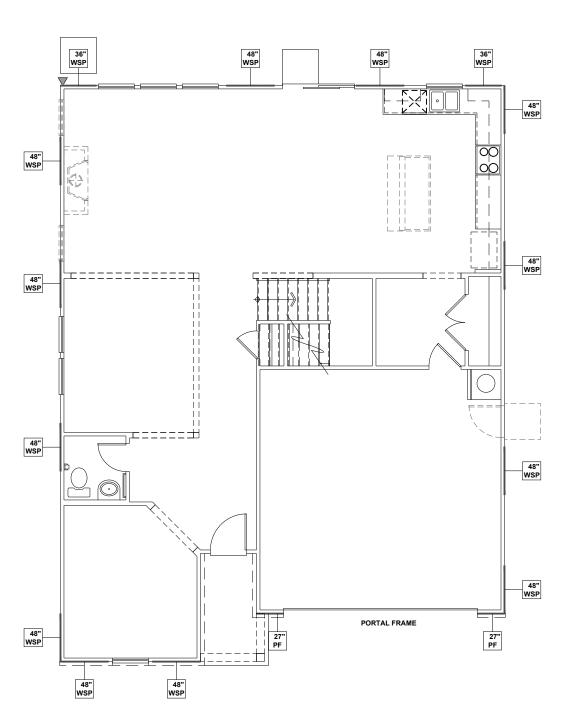
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SECOND FLOOR CEILING FRAMING PLAN

S2.0A

SECOND FLOOR CEILING FRAMING PLAN - 'A'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING
METHOD USING THE RECTANGLE CIRCUMSCRIBED
AROUND THE FLOOR PLAN OR PORTION OF THE
FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE
STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE
RECTANGLE.

PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY). FOR ADDITIONAL WALL BRACING INFORMATION,

REFER TO WALL BRACING DETAIL SHEET(S).
SCHEMATIC BELOW INDICATES HOW SIDES OF
RECTANGLE ARE TO BE INTERPRETED IN BRACING
CHART WHEN APPLIED TO STRUCTURE:



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

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

SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICA
LENGTH
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

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

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

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED <u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

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

WALL BRACING NOTE:

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

WALL BRACING: RECTANGLE 1 SIDE REQUIRED LENGTH LENGTH LENGTH LENGTH FRONT 13.5 FT. 17.0 FT. RIGHT 11.0 FT. 16.0 FT. REAR 13.5 FT. 14.0 FT. LEFT 11.0 FT. 16.0 FT.



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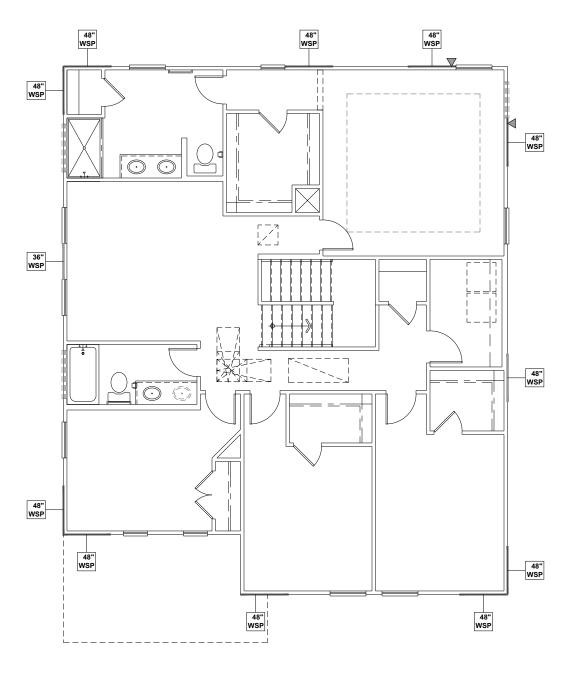
PLAN:

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FIRST FLOOR WALL BRACING PLAN

S4.0A

FIRST FLOOR WALL BRACING PLAN - 'A'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING
METHOD USING THE RECTANGLE CIRCUMSCRIBED
AROUND THE FLOOR PLAN OR PORTION OF THE
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CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM

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

SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICA
LENGTH
WSP
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

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

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

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED <u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

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

WALL BRACING NOTE:

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WALL BRACING: RECTANGLE 1

| SIDE | REQUIRED LENGTH | PROVIDED LENGTH |
|-------|--------------------|--------------------|
| FRONT | 6.0 FT. | 12.0 FT. |
| RIGHT | 6.0 FT. | 12.0 FT. |
| REAR | 6.0 FT. | 12.0 FT. |
| LEFT | 6.0 FT. | 11.0 FT. |
| | | |



Harnett COUNTY MASTER SET 01/21/2022

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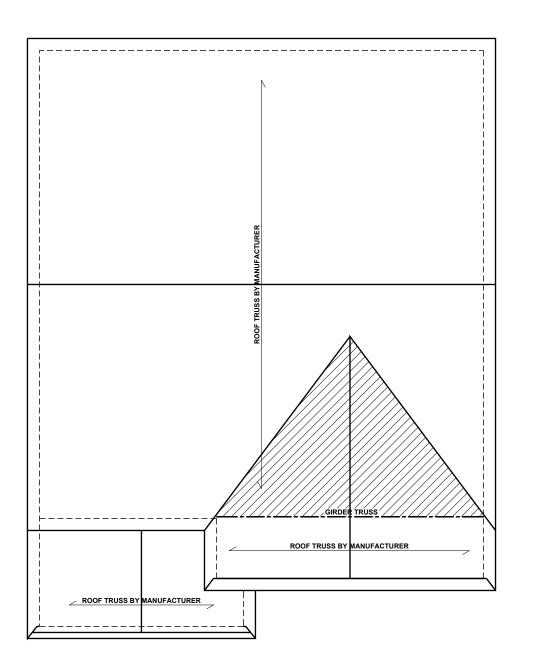
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SECOND FLOOR WALL BRACING PLAN

S5.0A

SECOND FLOOR WALL BRACING PLAN - 'A'



BEAM & POINT LOAD LEGEND

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

--- STRUCTURAL BEAM / GIRDER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

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.
- MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

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

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION

OVER 28'

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

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





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



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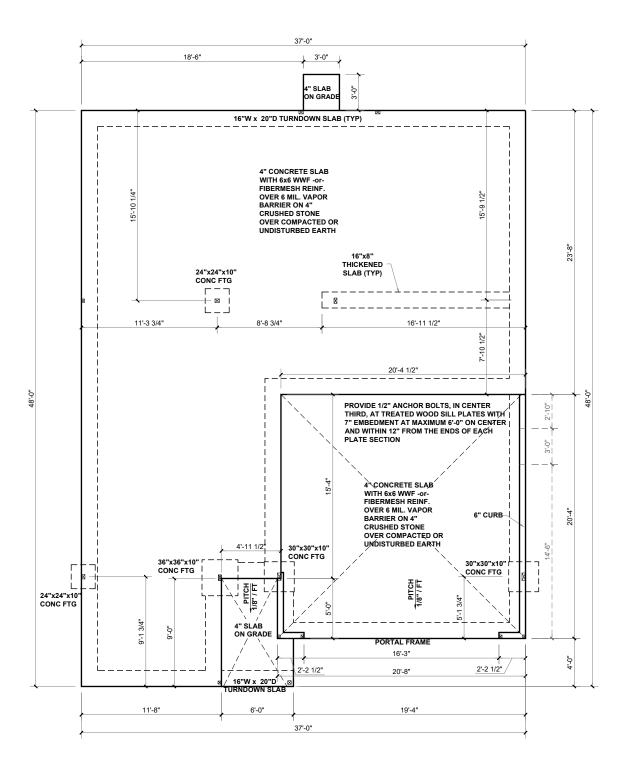
DATE: 05/19/2021

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ROOF FRAMING PLAN

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ROOF FRAMING PLAN - 'A'



SLAB FOUNDATION PLAN - 'B'

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

BEAM & POINT LOAD LEGEND

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

-- STRUCTURAL BEAM / GIRDER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

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

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

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON

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

MANUFACTURES SPECIFICATIONS



NORTH CAROLINA DIVISION

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FAX: (919) 472-0582



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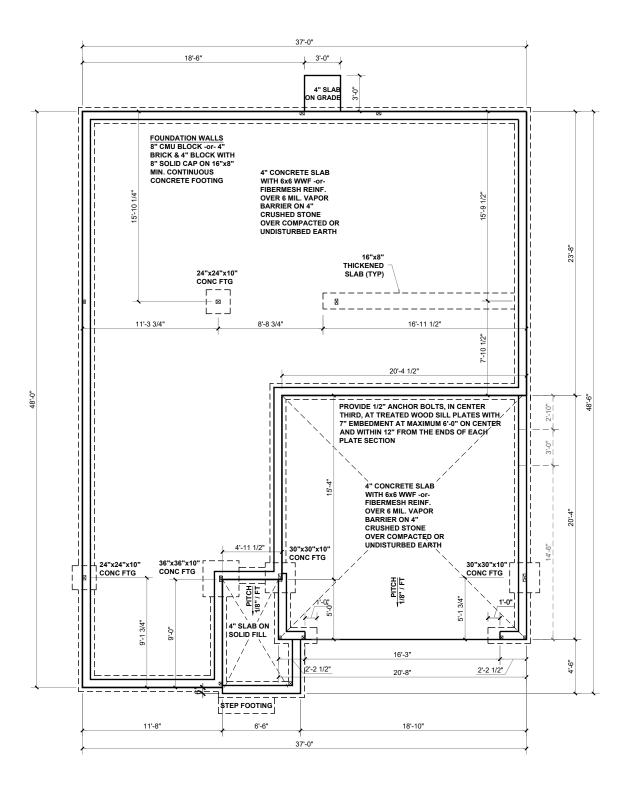
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SLAB FOUNDATION PLAN

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STEMWALL FOUNDATION PLAN - 'B'

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

INTERIOR LOAD BEARING WALL

- - ROOF RAFTER / TRUSS SUPPORT ---- DOUBLE RAFTER / DOUBLE JOIST

-- STRUCTURAL BEAM / GIRDER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON

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





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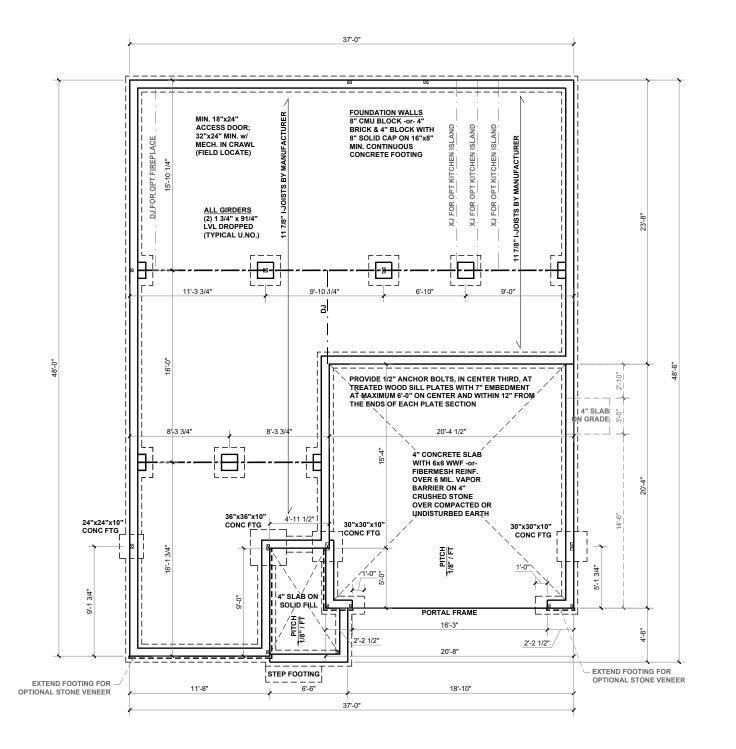
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STEMWALL FOUNDATION PLAN

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BEAM & POINT LOAD LEGE

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

FOUNDATION STRUCTURAL NOTES:

1. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE HOLLOW MASONRY SOLID MASONRY

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

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

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

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

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

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

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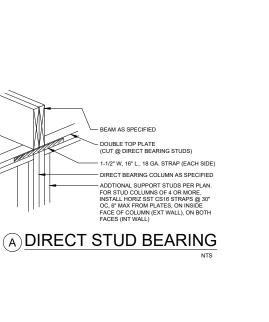
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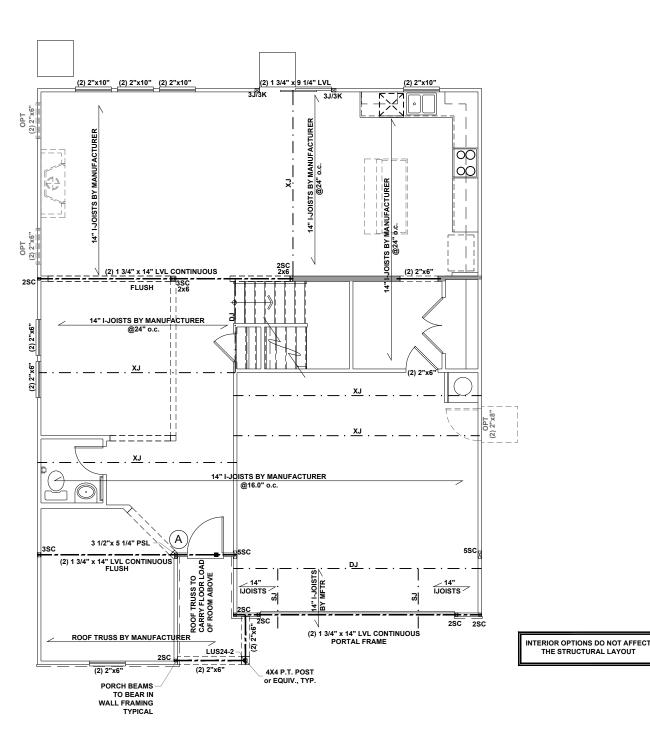
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CRAWL SPACE FOUNDATION PLAN

S.30B

CRAWL SPACE FOUNDATION PLAN - 'B'





BEAM & POINT LOAD LEGE

INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

■ WINDOW / DOOR HEADER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

I. 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.

 ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) (1) K, UNO.

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

 ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

 ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

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

. FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

 PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED A' BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

 WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).

. FOR STUD COLLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 8" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

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

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

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

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

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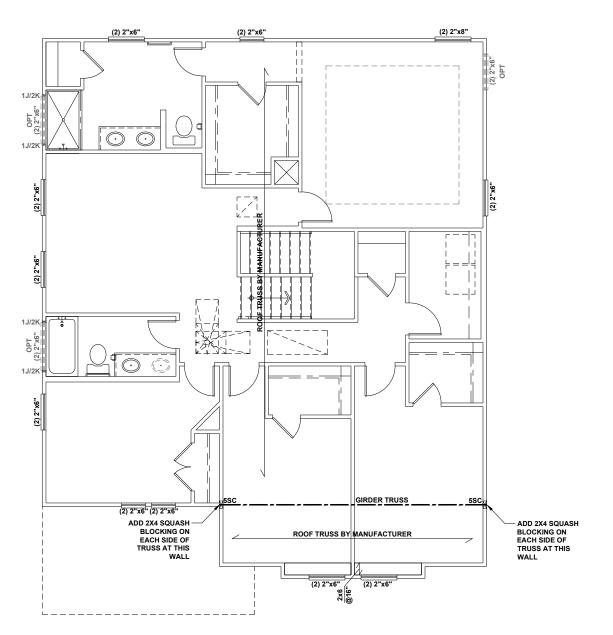
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FIRST FLOOR CEILING FRAMING PLAN

S1.0B

FIRST FLOOR CEILING FRAMING PLAN - 'B'

SECOND FLOOR INTERIOR OPTIONS DO NOT AFFECT THE STRUCTURAL LAYOUT



BEAM & POINT LOAD LEGE

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

STRUCTURAL BEAM / GIRDER
WINDOW / DOOR HEADER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

I. ALL FRAMING TO BE #2 SPF MINIMUM.

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3. EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.

ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J (1) K, UNO.

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

 ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

7. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

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

 FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

 PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

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2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

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





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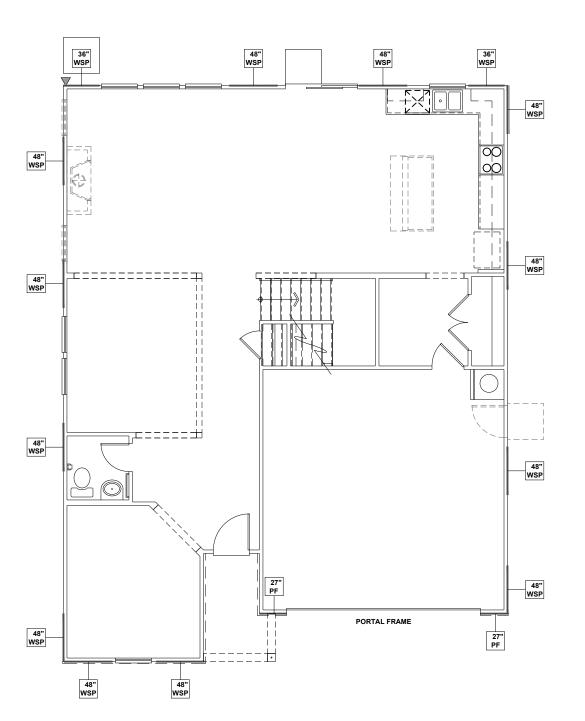
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SECOND FLOOR CEILING FRAMING PLAN

S2.0B

SECOND FLOOR CEILING FRAMING PLAN - 'B'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.

 PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
 FOR ADDITIONAL WALL BRACING INFORMATION,

REFER TO WALL BRACING DETAIL SHEET(S).
- SCHEMATIC BELOW INDICATES HOW SIDES OF
RECTANGLE ARE TO BE INTERPRETED IN BRACING
CHART WHEN APPLIED TO STRUCTURE:



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

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W/SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICA
LENGTH
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

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

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

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

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

WALL BRACING NOTE:

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

| WALL BRACING: RECTANGLE 1 | | | | |
|---------------------------|--------------------|--------------------|--|--|
| SIDE | REQUIRED LENGTH | PROVIDED LENGTH | | |
| FRONT | 13.5 FT. | 17.0 FT. | | |
| RIGHT | 11.0 FT. | 16.0 FT. | | |
| REAR | 13.5 FT. | 14.0 FT. | | |
| LEFT | 11.0 FT. | 16.0 FT. | | |
| | | | | |



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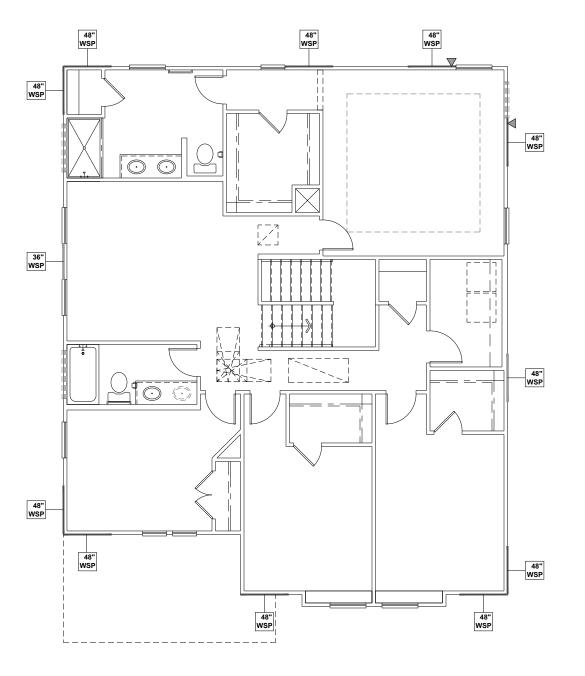
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PLAN: 237.2723

FIRST FLOOR WALL BRACING PLAN

S4.0B

FIRST FLOOR WALL BRACING PLAN - 'B'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING
METHOD USING THE RECTANGLE CIRCUMSCRIBED
AROUND THE FLOOR PLAN OR PORTION OF THE
FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE
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PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY). - FOR ADDITIONAL WALL BRACING INFORMATION,

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

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W SIMILAR LENGTH AND NAILING PATTERN.) USE HT14 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICA
LENGTH
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

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

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

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED <u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

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

WALL BRACING NOTE:

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

WALL BRACING: RECTANGLE 1

| SIDE | REQUIRED LENGTH | PROVIDED LENGTH |
|-------|--------------------|--------------------|
| FRONT | 6.0 FT. | 12.0 FT. |
| RIGHT | 6.0 FT. | 12.0 FT. |
| REAR | 6.0 FT. | 12.0 FT. |
| LEFT | 6.0 FT. | 11.0 FT. |
| | • | • |





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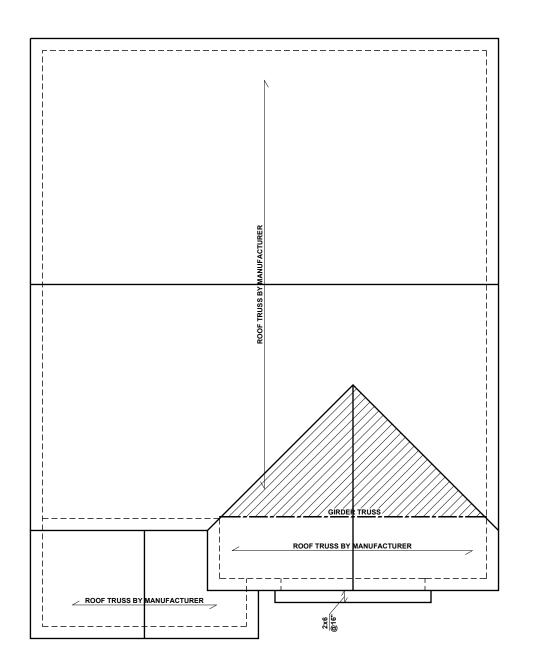
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SECOND FLOOR WALL BRACING PLAN

S5.0B

SECOND FLOOR WALL BRACING PLAN - 'B'





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

DOUBLE RAFTER / DOUBLE JOI
STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADER

☑ POINT LOAD TRANSFER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

 PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

2. DENOTES OVER-FRAMED AREA

3. MINIMUM 7/16" OSB ROOF SHEATHING

4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

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.

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

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

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF PLAN

CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION

OVER 28'

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

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





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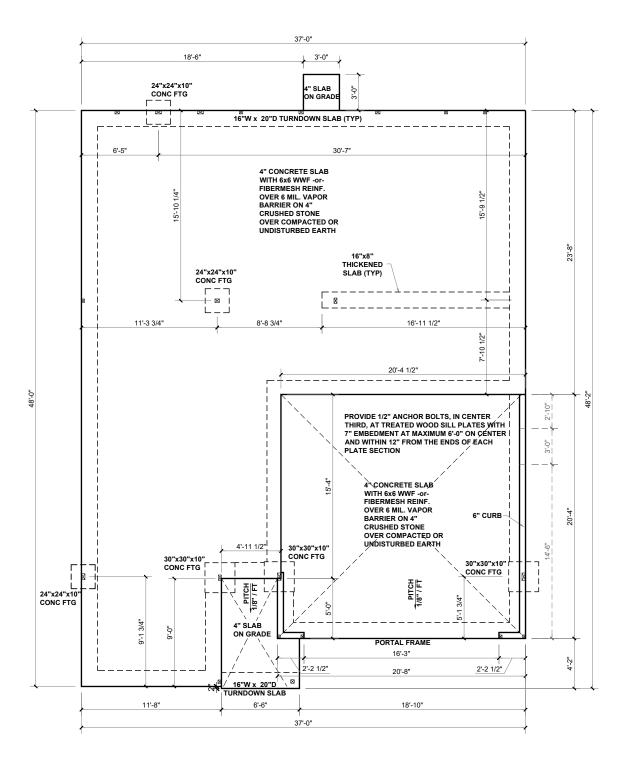
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ROOF FRAMING PLAN

. . . .

S7.0B

ROOF FRAMING PLAN - 'B'



SLAB FOUNDATION PLAN - 'C'

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

BEAM & POINT LOAD LEGEND

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

-- STRUCTURAL BEAM / GIRDER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

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

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

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON

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





NORTH CAROLINA DIVISION

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

P-0961

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

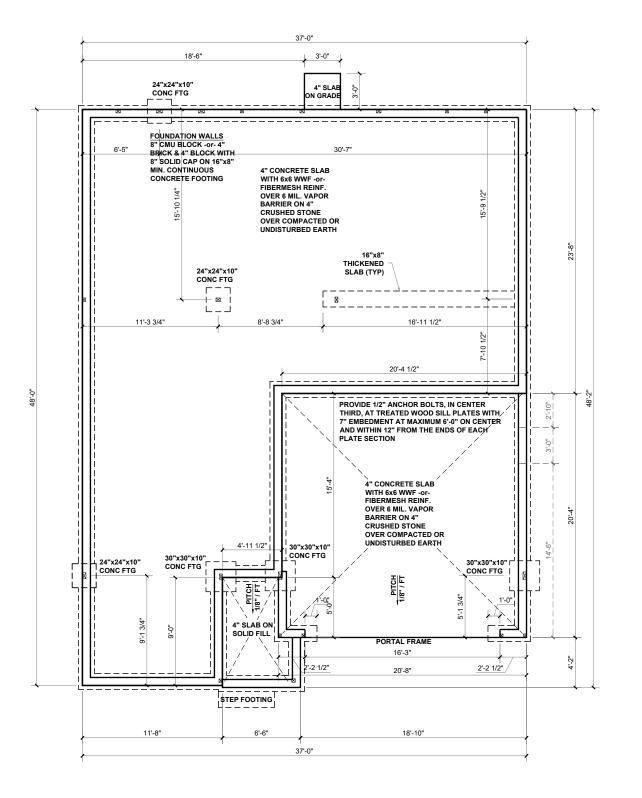


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SLAB FOUNDATION PLAN



INTERIOR LOAD BEARING WALL

- - ROOF RAFTER / TRUSS SUPPORT

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

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON

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



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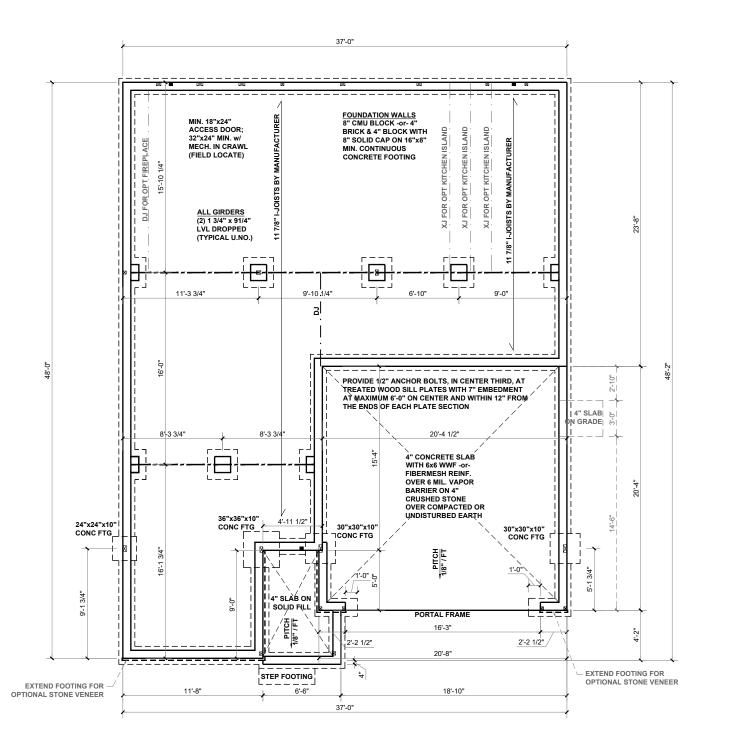
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05/19/2021

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STEMWALL FOUNDATION PLAN

STEMWALL FOUNDATION PLAN - 'C'



BEAM & POINT LOAD LEGENI

INTERIOR LOAD BEARING WALL

---- ROOF RAFTER / TRUSS SUPPORT

─·─· DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

--- WINDOW / DOOR HEADI

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

FOUNDATION STRUCTURAL NOTES:

1. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE HOLLOW MASONRY SOLID MASONRY

8x16 UP TO 32" HIGH UP TO 5'-0" HIGH 12x16 UP TO 48" HIGH UP TO 9'-0" HIGH 16x16 UP TO 64" HIGH UP TO 12'-0" HIGH 24x24 UP TO 96" HIGH

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

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

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

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

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

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

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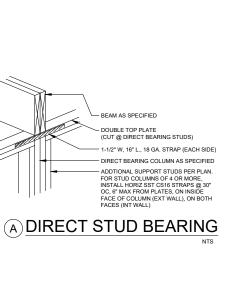
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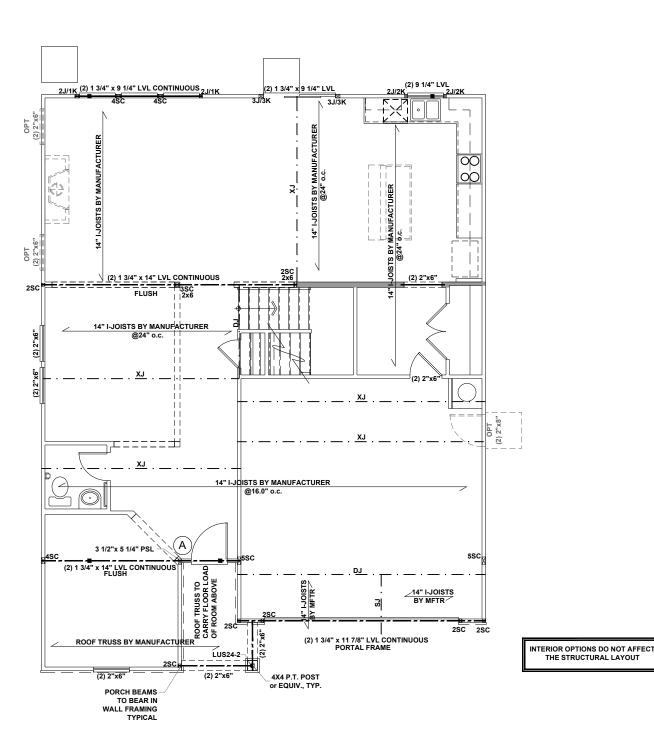
PLAN: 237.2723

CRAWL SPACE FOUNDATION PLAN

S.30C

CRAWL SPACE FOUNDATION PLAN - 'C'





BEAM & POINT LOAD LEGE

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.)

I. 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.

ALL NON-BEARING HEADERS TO BE (2) 2x4 (1)

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

 ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

 ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

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

 FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

 PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED A' BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

 WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCEWS (SEE MANUFACTURER'S SPECIFICATIONS).

. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

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

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

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

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

KB HOME

Harnett
COUNTY
OUZ12022

KB HOME NORTH CAROLINA DIVISION

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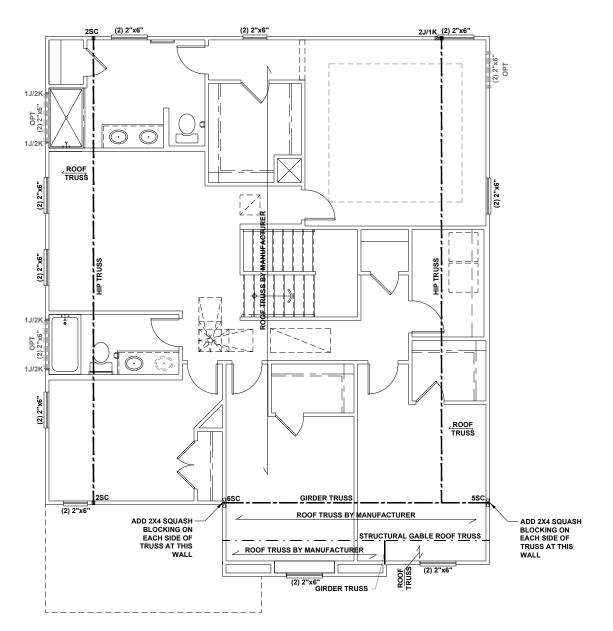
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FIRST FLOOR CEILING FRAMING PLAN

S1.0C

FIRST FLOOR CEILING FRAMING PLAN - 'C'

SECOND FLOOR INTERIOR OPTIONS DO NOT AFFECT THE STRUCTURAL LAYOUT



BEAM & POINT LOAD LEGE

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

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- ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J (1) K, UNO.
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- 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.
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- 1. WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCREWS (SEE MANUFACTUREN'S SPECIFICATIONS).
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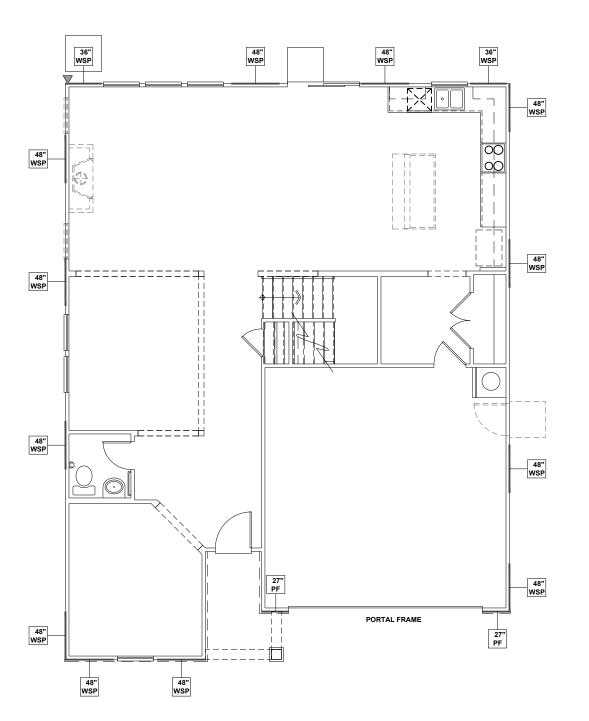
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SECOND FLOOR CEILING FRAMING PLAN

S2.0C

SECOND FLOOR CEILING FRAMING PLAN - 'C'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.

PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY). - FOR ADDITIONAL WALL BRACING INFORMATION,

REFER TO WALL BRACING DETAIL SHEET(S).
SCHEMATIC BELOW INDICATES HOW SIDES OF
RECTANGLE ARE TO BE INTERPRETED IN BRACING
CHART WHEN APPLIED TO STRUCTURE:



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

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

SCALED LENGTH
OF WALL PANEL
AT LOCATION

AT LOCATION

AT LOCATION

PANEL

ENGINEERED WALL SCHEDULE

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

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

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED <u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

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

WALL BRACING NOTE:

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

WALL BRACING: RECTANGLE 1 SIDE REQUIRED LENGTH PROVIDED LENGTH FRONT 13.5 FT. 17.0 FT. RIGHT 11.0 FT. 16.0 FT. REAR 13.5 FT. 14.0 FT. LEFT 11.0 FT. 16.0 FT.





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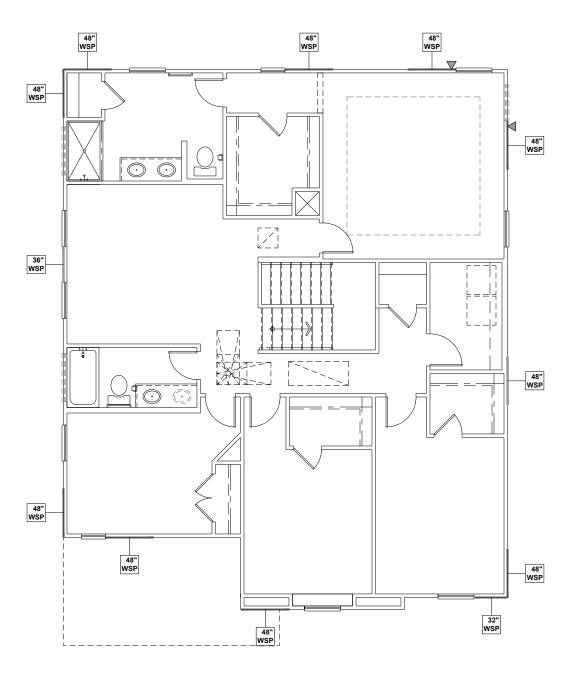
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PLAN:
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FIRST FLOOR WALL BRACING PLAN

S4.0C

FIRST FLOOR WALL BRACING PLAN - 'C'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
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SCALED LENGTH
OF WALL PANEL
AT LOCATION

AT LOCATION

AT LOCATION

PANEL

ENGINEERED WALL SCHEDULE

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

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ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED <u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

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

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WALL BRACING: RECTANGLE 1 REQUIRED PROVIDED

| SIDE | REQUIRED LENGTH | PROVIDED LENGTH |
|-------|--------------------|--------------------|
| FRONT | 6.0 FT. | 10.6 FT. |
| RIGHT | 6.0 FT. | 12.0 FT. |
| REAR | 6.0 FT. | 12.0 FT. |
| LEFT | 6.0 FT. | 11.0 FT. |
| LEFT | 6.0 FT. | 11.0 FT. |





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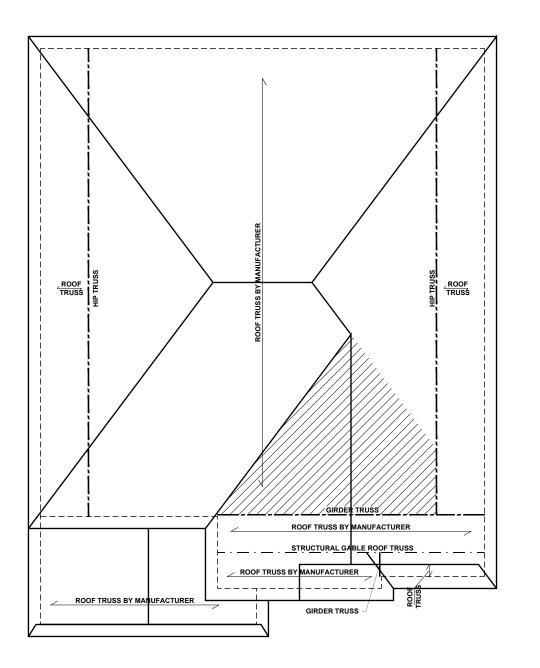
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SECOND FLOOR WALL BRACING PLAN

S5.0C

SECOND FLOOR WALL BRACING PLAN - 'C'



BEAM & POINT LOAD LEGEND

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

WINDOW / DOOR HEADER

 ☑ POINT LOAD TRANSFER
 ■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

 PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

2. DENOTES OVER-FRAMED AREA

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

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

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

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF PLAN

CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION

OVER 28'

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

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





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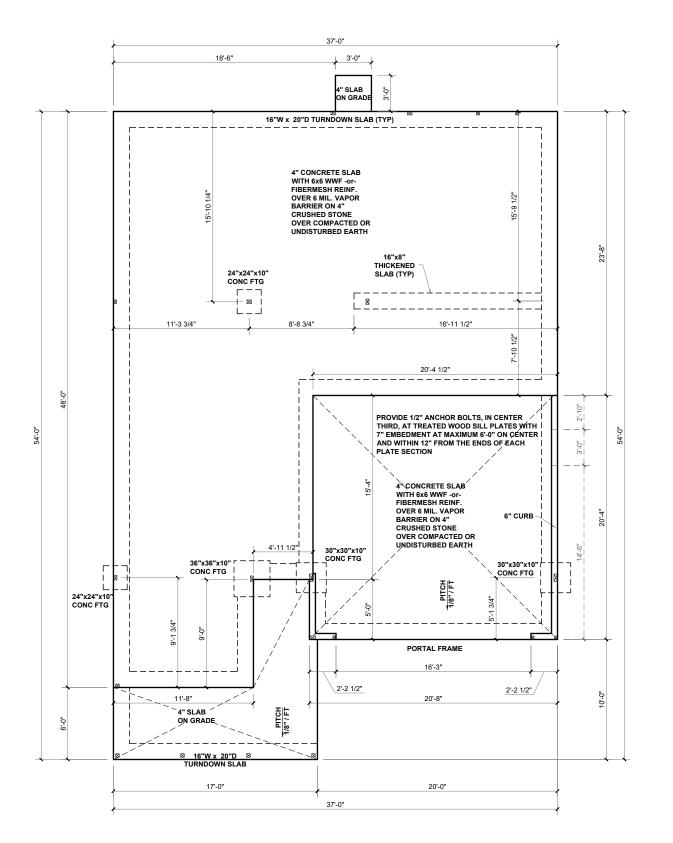
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PLAN: 237.2723

ROOF FRAMING PLAN

S7.0C

ROOF FRAMING PLAN - 'C'



SLAB FOUNDATION PLAN - 'D'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL - - ROOF RAFTER / TRUSS SUPPORT

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

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

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

- NO SUBSTITUTION ALLOWED IN SLABS INSTALLED ON

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





NORTH CAROLINA DIVISION

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

FAX: (919) 472-0582

P-0961

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



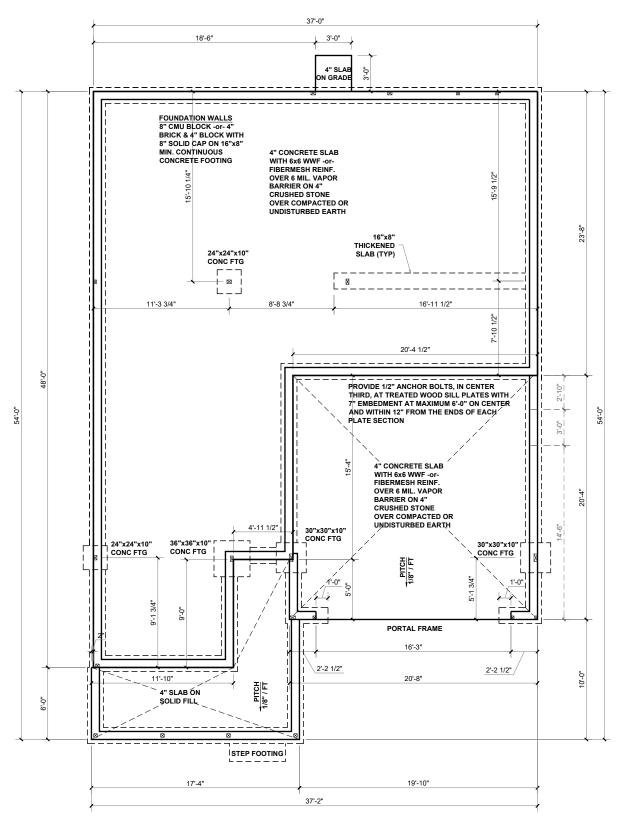
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05/19/2021

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SLAB FOUNDATION PLAN

. . . .



BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL

- - ROOF RAFTER / TRUSS SUPPORT ---- DOUBLE RAFTER / DOUBLE JOIST

-- STRUCTURAL BEAM / GIRDER

POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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



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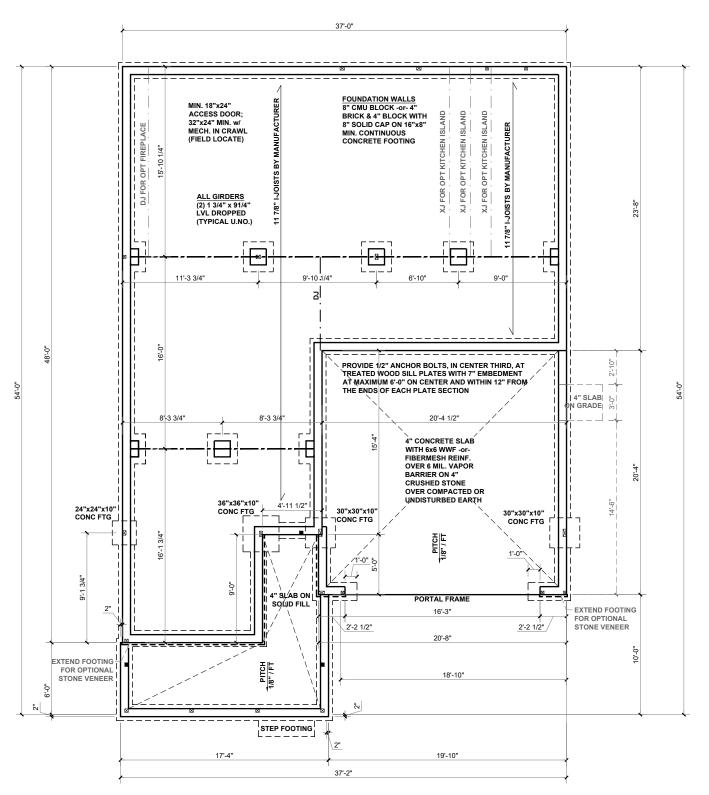
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STEMWALL FOUNDATION PLAN

. . . .

STEMWALL FOUNDATION PLAN - 'D'



CRAWL SPACE FOUNDATION PLAN - 'D'

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

BEAM & POINT LOAD LEGE

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

FOUNDATION STRUCTURAL NOTES:

1. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE HOLLOW MASONRY SOLID MASONRY

8x16 UP TO 32" HIGH UP TO 5'-0" HIGH 12x16 UP TO 48" HIGH UP TO 9'-0" HIGH 16x16 UP TO 64" HIGH UP TO 12'-0" HIGH

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

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

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

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

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

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

KB



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SEAL STALLS

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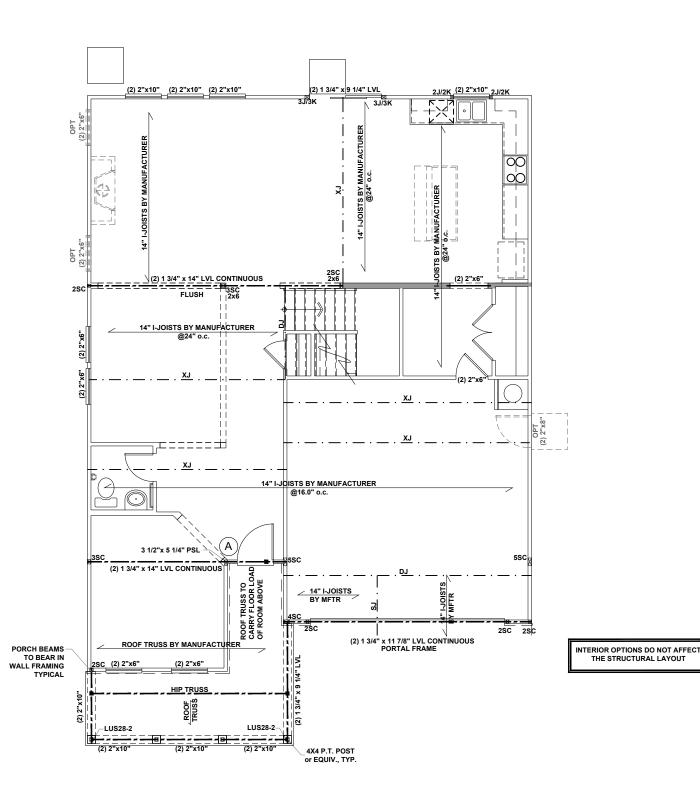
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CRAWL SPACE FOUNDATION PLAN

S.30D



- BEAM AS SPECIFIED

(A) DIRECT STUD BEARING

1-1/2" W, 16" L., 18 GA. STRAP (EACH SIDE) DIRECT BEARING COLUMN AS SPECIFIED

ADDTIONAL SUPPORT STUDS PER PLAN

INSTALL HORIZ SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXT WALL), ON BOTH FACES (INT WALL) BEAM & POINT LOAD LEGE

INTERIOR LOAD BEARING WALL

ROOF RAFTER / TRUSS SUPPORT

DOUBLE RAFTER / DOUBLE JOIST

STRUCTURAL BEAM / GIRDER

WINDOW / DOOR HEADEI
POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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

I. ALL FRAMING TO BE #2 SPF MINIMUM.

 ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTEI 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.

(1) K, UNO.

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

 ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

 ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.

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

 FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.

 PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED A' BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.

 WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSSLOK SCEWS (SEE MANUFACTURER'S SPECIFICATIONS).

FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

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

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

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

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





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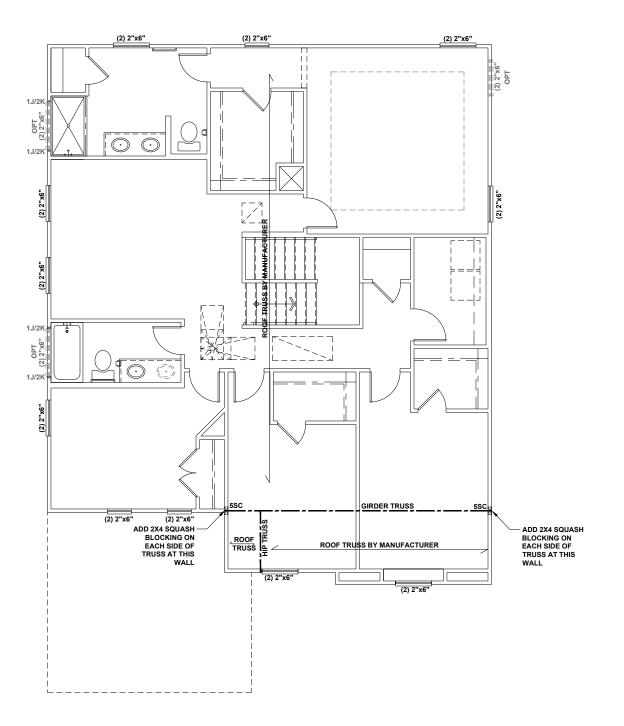
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FIRST FLOOR CEILING FRAMING PLAN

S1.0D

FIRST FLOOR CEILING FRAMING PLAN - 'D'

SECOND FLOOR INTERIOR OPTIONS DO NOT AFFECT THE STRUCTURAL LAYOUT



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

BEAM & POINT LOAD LEGEN

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

STRUCTURAL BEAM / GIRDER
WINDOW / DOOR HEADER

■ 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.

ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J (1) K, UNO.

PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

i. ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.

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2. FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

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



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| | (919) | | | |



FAX: (919) 472-0582

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#JDS Consulting

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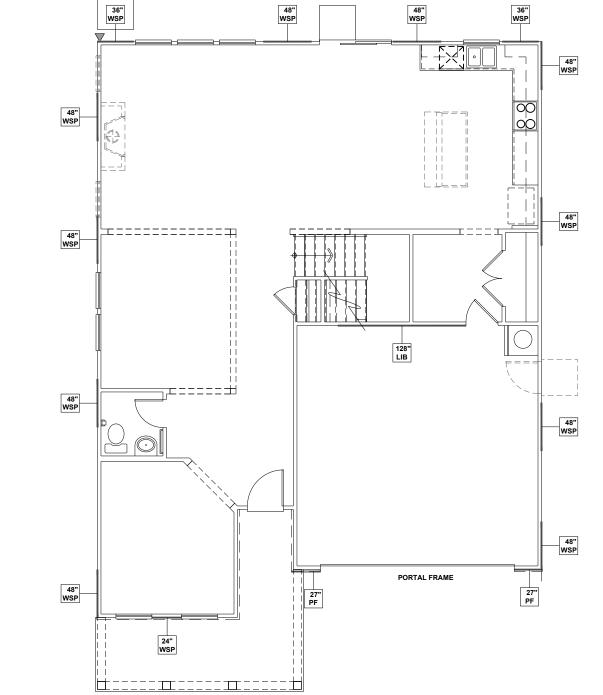
DATE: 05/19/2021

PLAN:
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SECOND FLOOR CEILING FRAMING PLAN

S2.0D

SECOND FLOOR CEILING FRAMING PLAN - 'D'



DOUBLE TOP PLATE

CROSS BRACED LIB

CS16 STRAPPING METHOD

SCALE: 1/4" = 1'-0" STRAP ANGLES TO BE NO MORE THAN 60° AND NO LESS THAN 30°

CS16 STRAPPING; INSTALL (2) 8d NAILS

AT EACH STUD CROSSING, INSTALL (2) 8d NAILS IN EACH

PLATE CROSSING

WALL STUD

SINGLE BOTTOM PLATE



- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.

PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY). - FOR ADDITIONAL WALL BRACING INFORMATION,

REFER TO WALL BRACING DETAIL SHEET(S).
SCHEMATIC BELOW INDICATES HOW SIDES OF
RECTANGLE ARE TO BE INTERPRETED IN BRACING
CHART WHEN APPLIED TO STRUCTURE:



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

SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED W SIMILAR LENGTH AND NAILING PATTERN.) USE HT14 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICA
LENGTH
WSR
OF PANEL
PANEL TYP

ENGINEERED WALL SCHEDULE

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

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

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

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

WALL BRACING NOTE:

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

| WALL BRACING: RECTANGLE 1 | | | | | | |
|---------------------------------------|-----------------|----------|--|--|--|--|
| SIDE REQUIRED PROVIDED LENGTH LENGTH | | | | | | |
| FRONT | RONT 13.5 FT. 1 | | | | | |
| RIGHT | 11.0 FT. | 16.0 FT. | | | | |
| REAR | 13.5 FT. | 14.0 FT. | | | | |
| LEFT | 16.0 FT. | | | | | |
| | | • | | | | |



Harnett Columny Waster Sag

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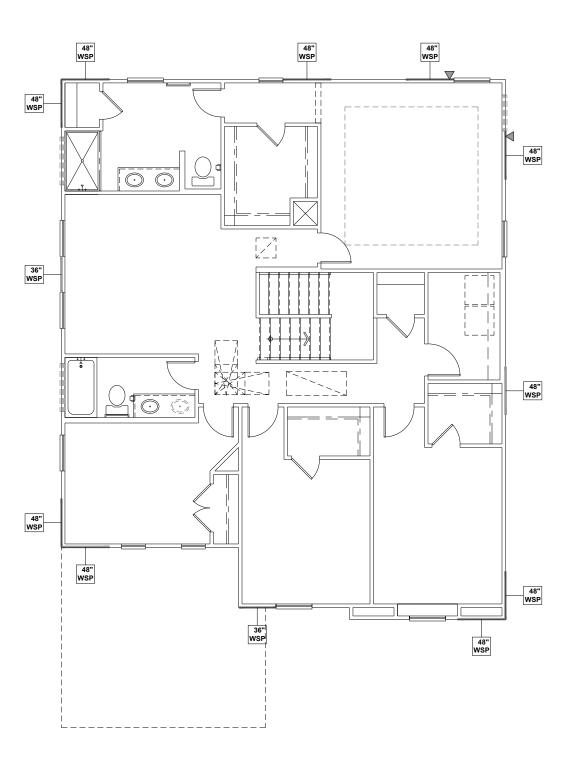
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FIRST FLOOR WALL BRACING PLAN

S4.0D

FIRST FLOOR WALL BRACING PLAN - 'D'



WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.

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SCALED LENGTH
OF WALL PANEL
AT LOCATION

NUMERICA
LENGTH
WSP
OF PANEL
PANEL TYPE

ENGINEERED WALL SCHEDULE

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

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

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED <u>BOTH SIDES</u> WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

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

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WALL BRACING: RECTANGLE 1 SIDE REQUIRED PROVIDED LENGTH

| REQUIRED | PROVIDED | |
|----------|-------------------------------|--|
| | PROVIDED LENGTH | |
| LENGTH | | |
| 6.0 FT. | 11.0 FT. | |
| 6.0 FT. | 12.0 FT. | |
| 6.0 FT. | 12.0 FT. | |
| 6.0 FT. | 11.0 FT. | |
| | 6.0 FT. 6.0 FT. 6.0 FT. | |





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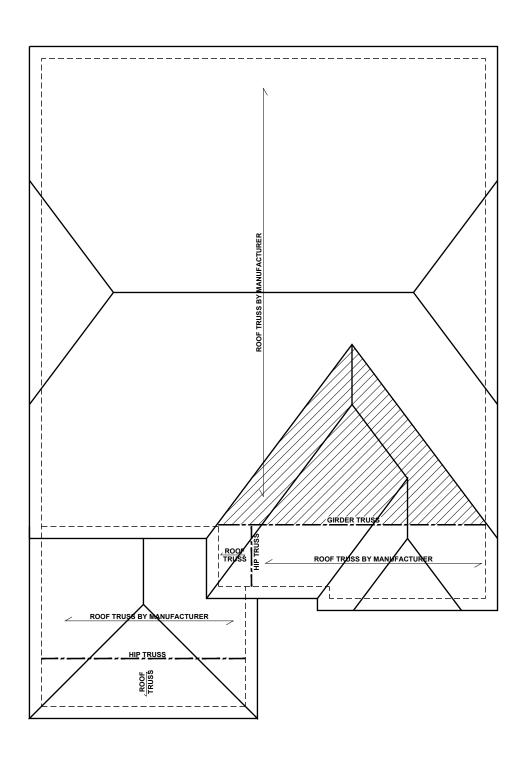
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PLAN:
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SECOND FLOOR WALL BRACING PLAN

S5.0D

SECOND FLOOR WALL BRACING PLAN - 'D'



ROOF FRAMING PLAN - 'D'

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

BEAM & POINT LOAD LEGEND

INTERIOR LOAD BEARING WALL
ROOF RAFTER / TRUSS SUPPORT

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

WINDOW / DOOR HEADER

POINT LOAD TRANSFER

■ POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

TRUSSED ROOF - STRUCTURAL NOTES

 PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.

2. DENOTES OVER-FRAMED AREA

- 3. MINIMUM 7/16" OSB ROOF SHEATHING
- 4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- . 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.

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MP

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

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF PLAN

CONNECTOR
NAILING PER TABLE 602.3(1)
NCRBC 2018 EDITION

OVER 28'

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

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





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8600 'D' JERSEY CT, RALEIGH, NC 27617;919.480.1075 INFO@JDSCONSULTING.NET; WWW.JDSCONSULTING.N

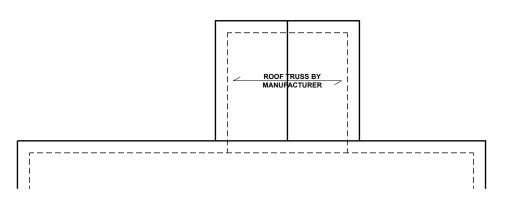
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ROOF FRAMING PLAN

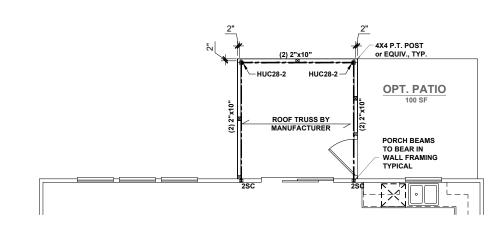
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ROOF FRAMING PLAN

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



SCREENED PATIO W/ PATIO OPTION -SLAB FOUNDATION PLAN

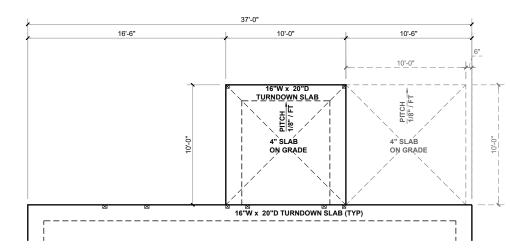
4" SLAB

16"W x 20"D TURNDOWN SLAB (TYP)

37'-0"

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

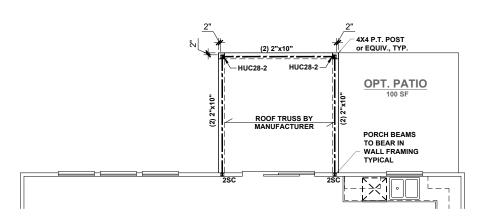
16'-6"



COVERED PATIO W/ PATIO OPTION -SLAB FOUNDATION PLAN

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

SCREENED PATIO CEILING FRAMING PLAN SCALE: 1/8" = 1'-0"



COVERED PATIO CEILING FRAMING PLAN

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

INTERIOR LOAD BEARING WALL **DOUBLE RAFTER / DOUBLE JOIST** POINT LOAD TRANSFER POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

SEE FULL PLAN FOR ADDITIONAL INFORMATION

OVER

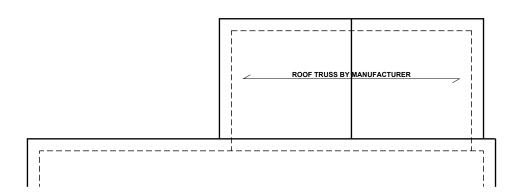
NORTH CAROLINA DIVISION 4518 S. MIAMI BLVD. SUITE 180 DURHAM, NC 27703 TEL: (919) 768-7988 FAX: (919) 472-0582 P-0961 JDS Consulting, PLLC HAS PERFORMED A

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REAR OPTIONS

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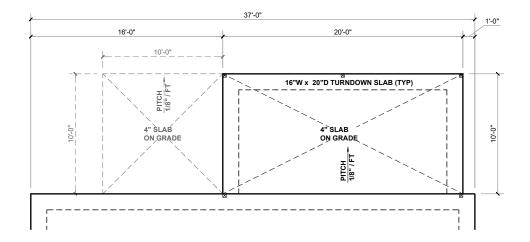


- INTERIOR LOAD BEARING WALL
- POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

SEE FULL PLAN FOR ADDITIONAL INFORMATION

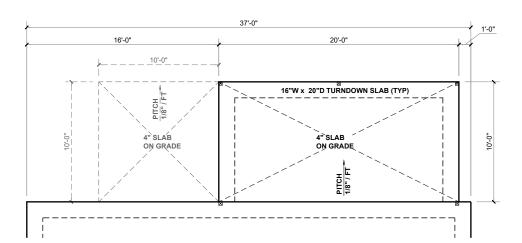
ROOF FRAMING PLAN

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



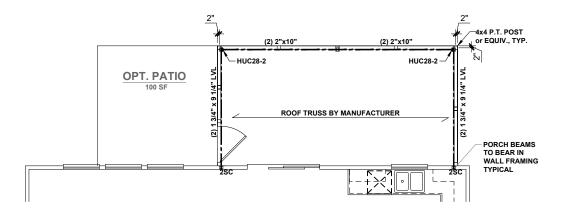
SCREENED PATIO W/ PATIO OPTION -SLAB FOUNDATION PLAN

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



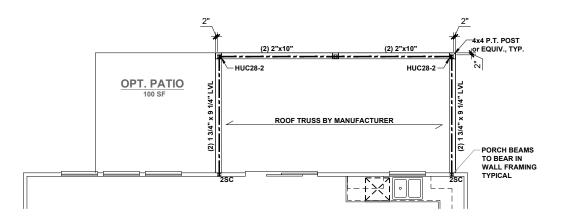
COVERED PATIO W/ PATIO OPTION -SLAB FOUNDATION PLAN

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



SCREENED PATIO CEILING FRAMING PLAN

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



COVERED PATIO CEILING FRAMING PLAN

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

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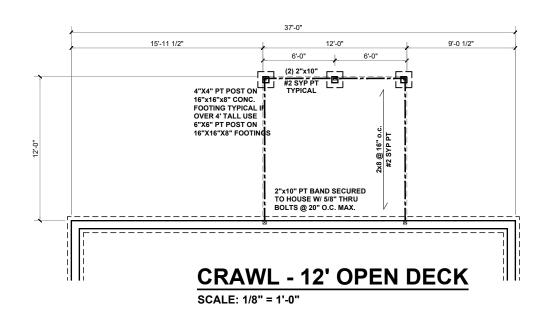
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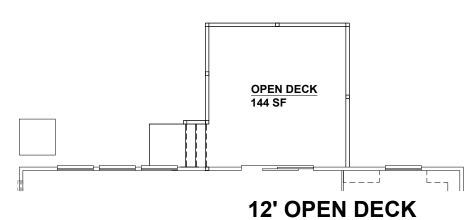
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REAR OPTIONS

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37'-0"

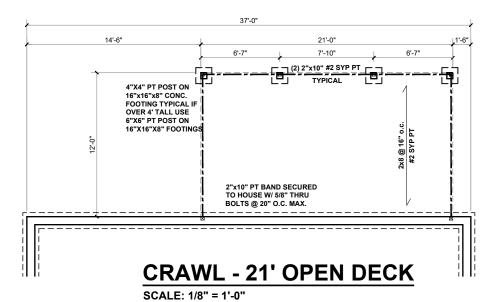
16'-6"

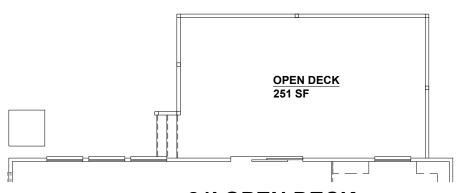
10'-0"

10'-6"

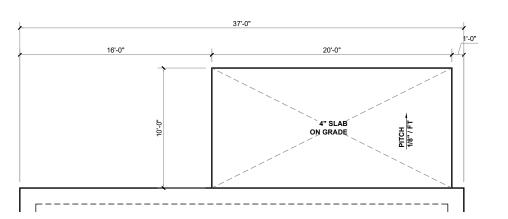
SCALE: 1/8" = 1'-0"

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





21' OPEN DECK SCALE: 1/8" = 1'-0"



EXT. PATIO SLAB

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

SEE FULL PLAN FOR ADDITIONAL INFORMATION

DEN DECK

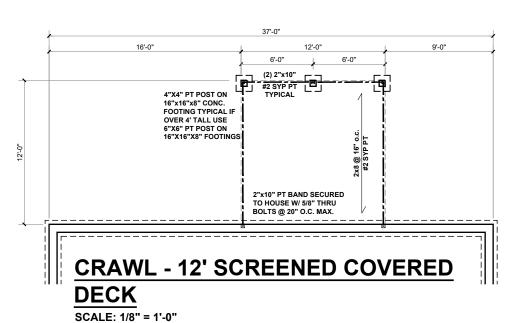
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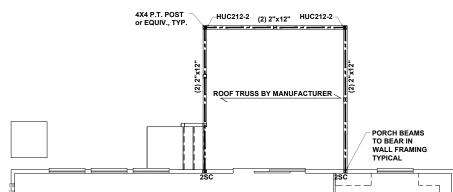
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PROJECT NO.: 21901129
DATE: 05/19/2021

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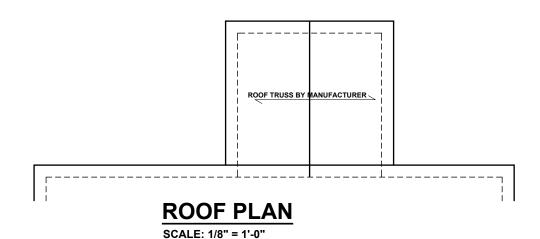
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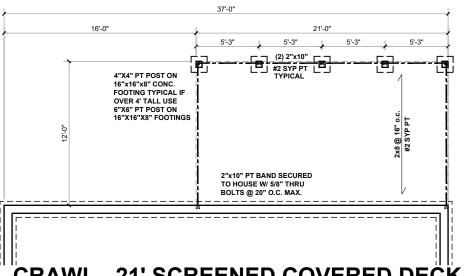




12' SCREENED COVERED DECK

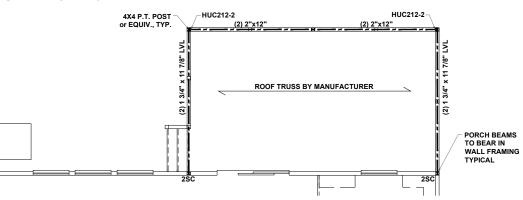
SCALE: 1/8" = 1'-0"





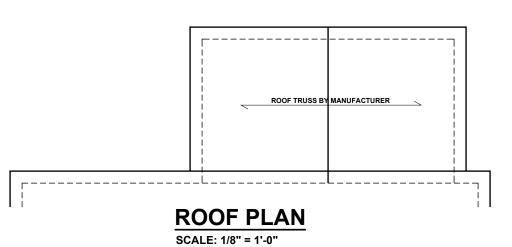
CRAWL - 21' SCREENED COVERED DECK

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



21' SCREENED COVERED DECK

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



INTERIOR LOAD BEARING WALL ---- ROOF RAFTER / TRUSS SUPPORT DOUBLE RAFTER / DOUBLE JOIST STRUCTURAL BEAM / GIRDER POINT LOAD TRANSFER

POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

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