



**ENGINEERS
PLANNERS
CONSULTANTS**

305 NORTH OAKLAND AVENUE • P.O. BOX 490 • NAPPANEE, INDIANA 46550
WEB: WWW.NTAINC.COM

PHONE: 574-773-7975
FAX: 574-773-2732

August 6, 2015

Mr. Alan Greene, P.E.
State of North Carolina
Department of Insurance
Manufactured Building Division
322 Chapanoke Road
Suite 200
Raleigh, NC 27603

RE: R-Anell Housing Group. LLC
Model: RJ553-A1 -NC

Dear Mr. Greene,

Enclosed, you will find one (1) copy of the above mentioned project for your files.

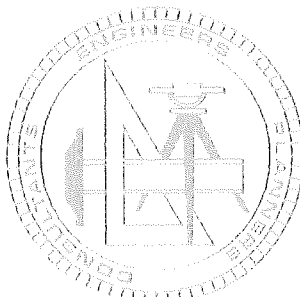
Should you have any questions or comments, please contact me at your earliest convenience.

Sincerely,

Michael Faller

Michael Faller
Modular Building Specialist

Enclosures



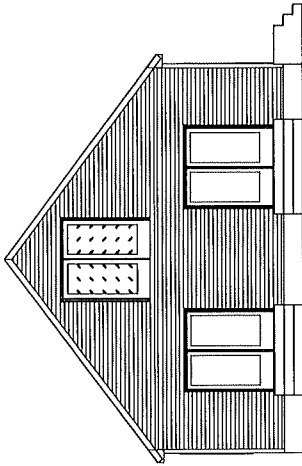
Adopted Codes: State of North Carolina

- 2012 North Carolina Residential Code
- 2011 North Carolina Electrical Code
- 2012 North Carolina Energy Code
- 2012 North Carolina Mechanical Code
- 2012 North Carolina Plumbing Code

Model: RJ553-A1

Customer: Stock
Dealer: Custom Built Homes

Builder:
R-Anell Housing Group, LLC
 Subsidiary of The Commodore Corporation
 235 Anthony Grove Rd.
 Crouse, NC 28033



Project Location:

22019 Hwy 17
 Hampstead NC 28443
 Pender County

Occupancy:

Occupancy: IRC - Single Family Dwelling
 Construction Type: 5B (Wood Frame - Unprotected)
 Number of Stories: One Story Cape

Design Load:

Floor Area: 2040 Sq.Ft. Floor Live Load: 40 psf
 Ground Snow Load: 20 psf Floor Dead Load: 10 psf
 Top Chord Dead Load: 7 psf Bottom Chord Live Load: See Truss psf
 Wind Speeds: IRC = 130 mph, ASCE 7-10 Ulf. = N/A mph Wind Exposure Category: C
 Seismic Design Category: C IECC Geographical Code: 3

Insulation

Reference RESCheck for Requirements.

Attention Local Inspection Departments:

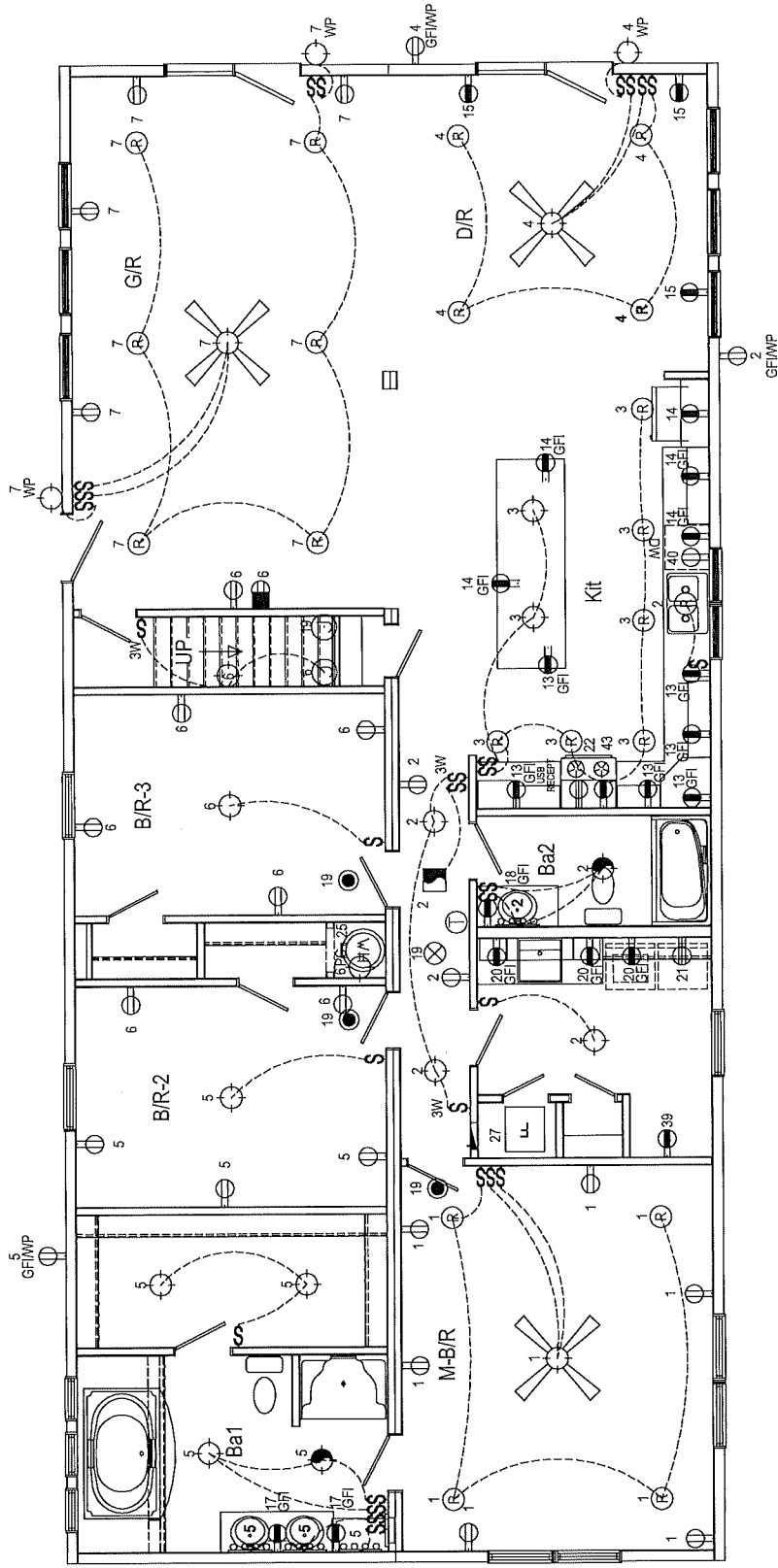
1. Set-up instructions for this modular unit are included by attachment to these plans. Any plans set that does not include an attachment entitled "MODULAR HOME INSTALLATION MANUAL" is incomplete.
2. The following items are not completed by the home manufacturer, are not inspected by in-factory third party inspectors, and are not certified by the modular compliance label: (A) Components or connections for heating or air conditioning systems which are NOT part of the factory installation. (B) Below floor ducts and DWV, (C) Electrical service disconnect, (D) Foundation designs and attachments. In order to verify that all required systems connections are complete, refer to the "Inspection Check Sheet" in the manufacturer's modular home installation manual. Regardless of factory or site installation, the furnace, water heater, and all elements of heating system must be per applicable codes, (refer to ResCheck if applicable).
3. Site installed furnace must meet IECC Energy Efficiency Certificate if applicable.
4. This unit must be connected to a public water supply and sewer system if these are available.
5. If this structure is in a thermal zone more stringent than that listed on these plans, is set on pilings, or is installed at a mountain, region or coastal high hazard site such that wind or other design parameters are increased, the design must be determined to be adequate for actual site conditions. Alterations may be required to bring the home into compliance with the more stringent conditions.
6. Soffit materials for this unit assume that the building face will be 10 feet or greater from the property line when installed on site. Where the building face is less than 10 feet from the property line, underlayment materials and ventilation in accordance with Section R703.11.3, NC Residential Code, must be provided and installed at the site and inspected by the local jurisdiction.
7. If after installation of this home, the lowest part of the clear opening of any window is more than 72" above the finished grade, guards will be required to be installed onsite in accordance with Section R612; subject to local inspection.

Drawing Index

| Title | Page |
|---|----------|
| Cover | CV |
| Floor Plan | FP |
| Electrical Plan | EP |
| Elevations | EL |
| 2x10 Marriage Line without Stair Foundation | FD20# |
| Hot Water Lines | WH |
| Cold Water Lines | WC |
| DWV System | DL |
| DWV Notes | DN |
| Gas Lines | GA |
| Cross Section | XS |
| Perimeter Heat Duct Layout | HS |
| Ceiling Return Air System | HR |
| Braced Walls-Prescriptive | BWP |
| Schedules and General Notes | NG |
| ResCheck | ATTACHED |
| Truss Diagram | ATTACHED |
| HVAC System Calculations | ATTACHED |
| Dryer Vent Installation | ATTACHED |

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Michael Faller



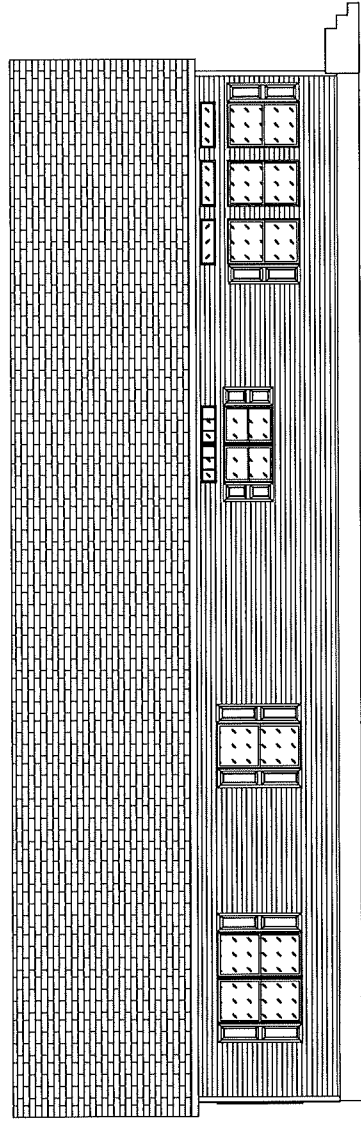
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 Michael Faller

| | |
|---------------|--|
| Modeling No.: | RJ563-A1 |
| Scale: | 3/16" = 1'-0" |
| Date: | 08/03/2015 |
| Drawn By: | ME |
| Revised By: | NONE |
| Customer: | Custom Built Homes |
| Drawn: | SN 40289 |
| Revisions: | |
| Calculation: | 3268 |
| Builder: | Builder R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp. |
| Title: | Electrical Plan |

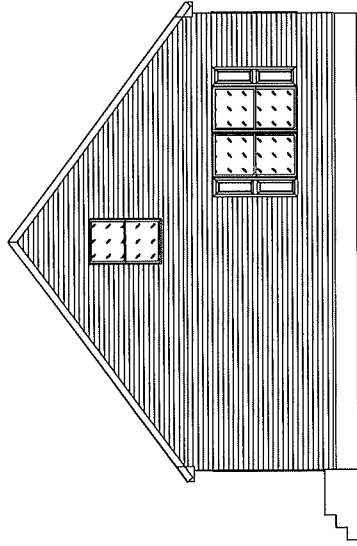
See Schedules and General Notes Page

ELEVATIONS SHOWN ON THIS PAGE REPRESENT BASIC COMPONENTS AND ARE NOT INTENDED TO BE ALL INCLUSIVE, NOR DO THESE ELEVATIONS DETAIL EVERY CODE REQUIRED ASPECT OF THIS BUILDING. SITE BUILT STOOPS, STEPS, DECKS, PORCHES, HANDRAILS AND/OR SIMILAR ITEMS MUST BE PROVIDED BY OTHERS ON SITE FOR COMPLIANCE WITH APPLICABLE CODES. COMPLIANCE WITH ALL APPLICABLE CODES PER LOCAL AUTHORITY HAVING JURISDICTION, WHETHER DETAILED IN THIS SET OR NOT, MUST BE MET.

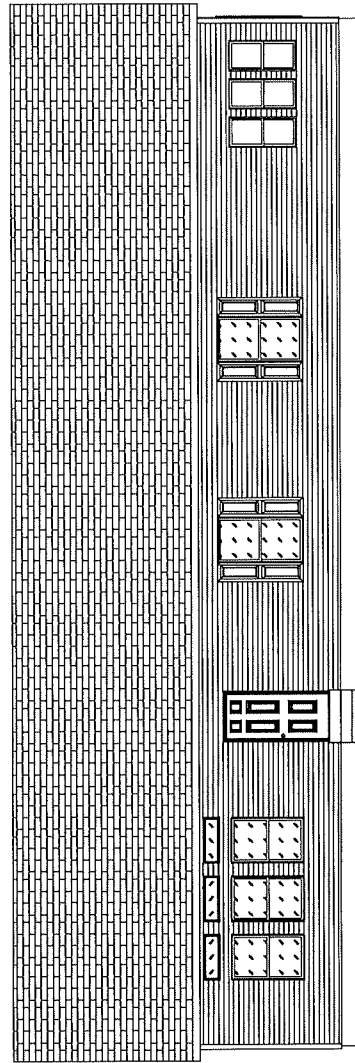
3658 WINDOW



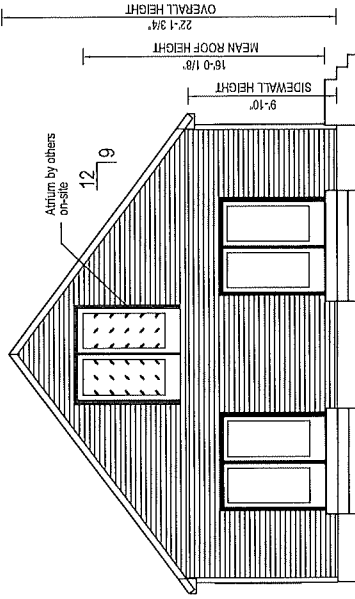
LEFT VIEW



REAR VIEW



RIGHT VIEW



FRONT VIEW

- NOTES-**
1. FOUNDATION SHALL BE DESIGNED AND CONSTRUCTED BY OTHERS WHERE "OTHERS" REFERS TO THE DEALER BUILDER.
 2. GUTTERS AND LEADERS SHALL BE INSTALLED BY OTHERS.
 3. TYPICAL 12" OR 16" VINYL SHUTTERS PROVIDED BY MANUFACTURERS.
 4. ALL FOOTINGS, RAILINGS AND STEPS SHALL BE FIELD INSTALLED IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL CODES.
 5. SIDING SHALL BE VINYL SIDING WITH VINYL TRIM, AND MAY BE PARTIALLY INSTALLED ON SITE.
 6. EXTERIOR LIGHTS MAY BE SHIPPED LOOSE FOR INSTALLATION ON SITE.
 7. ROOFING SHINGLES MAY BE PARTIALLY SITE INSTALLED.
 8. PORCH RAILINGS ARE PVC. TREATED LUMBER PORCH POSTS MAY BE COVERED WITH VINYL. PORCH DECKING SHALL BE TREATED.
 9. ALL EXTERIOR COVERINGS SHALL BE WEATHER AND DECAY RESISTIVE TO PROVIDE PROPER PROTECTION FOR UNTREATED MATERIALS.

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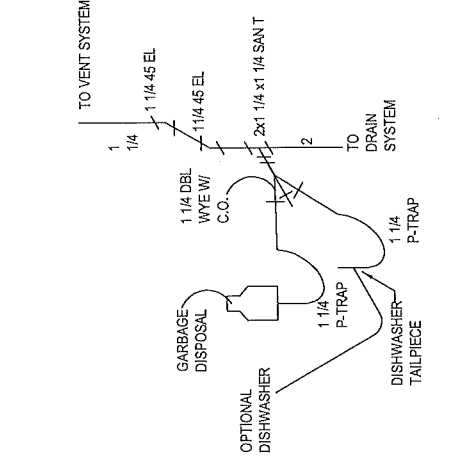
08/06/15

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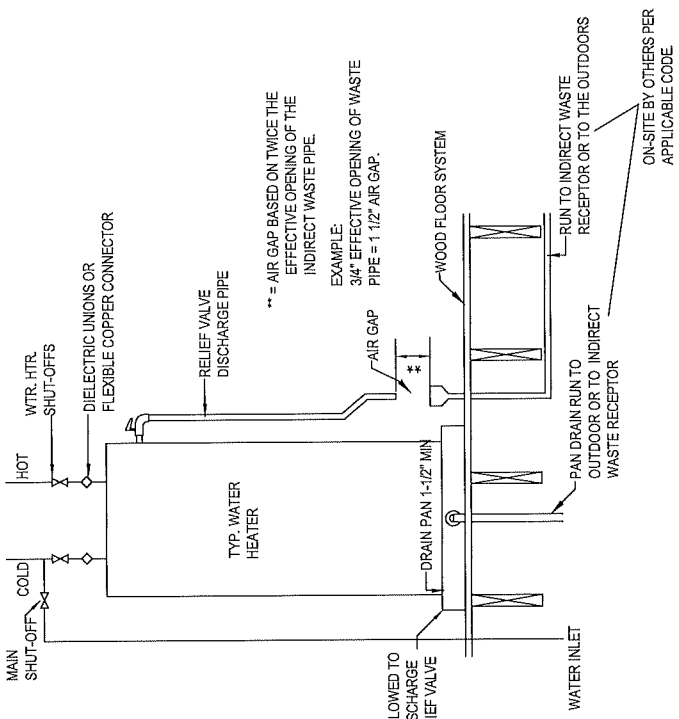
Michael Faller

| | | | |
|------------|--|--------------|------------------------|
| Builder | R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp. | Modeling No. | RJ563-A1 |
| Title | Elevations | Sheet No. | EL |
| Scale | N.T.S. | Date | 07/17/2015 |
| Drawn By | JLR | Rev. No. | NONE |
| Checked By | | Client | Dr. Custom Built Homes |
| Revisions | | Sheet | 40269 |
| Number | | Drawn | |
| Date | | Checked | |
| Callout | 3258 | Scale | |

PIPE SUPPORT:
VERTICAL PIPING:
 SUPPORTS AT 10' O.C. MAX.
 OR BETWEEN FLOOR
 LEVELS.
HORIZONTAL PIPING:
 SUPPORTS AT 4' O.C. MAX.
 ENDS OF BRANCHES, AND
 AT CHANGES IN ELEVATION
 AND/OR DIRECTION.
 TRAP ARMS:
 SUPPORT LOCATED AS
 CLOSE TO TRAP AS
 POSSIBLE WHEN TRAP TO
 VENT EXCEEDS 3'.



OPTIONAL GARBAGE DISPOSAL PLUMBING
 ILLINOIS MODELS ONLY - USE DETAIL ABOVE FOR
 OPTIONAL GARBAGE DISPOSAL



PAN NOT ALLOWED TO
 RECEIVE DISCHARGE
 FROM RELIEF VALVE

NOTES:
 ALL BELOW FLOOR PLUMBING BY OTHERS. ALL FITTINGS BELOW BOTTOM CAN BE SHIPPED LOOSE.
 ALL BELOW FLOOR PLUMBING ILLUSTRATIONS ARE RECOMMENDATIONS ONLY. ON-SITE CONDITIONS AND/OR RESTRICTIONS MAY REQUIRE SOME MODIFICATIONS.
 OPT. GARBAGE DISPOSAL TO BE LOCATED ON KITCHEN SINK WASTE ASSEMBLY. ALL VENTS THRU ROOF TO BE 3", 1/2" MIN. ABOVE AND BELOW ROOF PENETRATION.
 ALL P-TRAPS TO BE 1 1/2" UNLESS NOTED.
 HORIZONTAL VENT SLOPE: 1/8" PER FOOT
 HORIZONTAL DRAIN SLOPE: 1/4" PER FOOT
 ANY TRANSITIONS TO MATERIALS OTHER THAN THE SPECIFIED MATERIAL MUST INCORPORATE AN APPROVED FITTING FOR CONNECTION.
 ALL TUBS WITH WHIRLPOOL MUST BE PROVIDED WITH PROTECTIVE SHIELD PLATES TO PROTECT PLUMBING TO MEET OR EXCEED CURRENT ADOPTED PLUMBING CODES.
 IN CONCEALED SPACES WHERE PIPING IS INSTALLED THRU HOLES OR NOTCHES IN STUDS, JOISTS, TRUSSES, OR SIMILAR MEMBERS LESS THAN 1 1/2" FROM NEAREST EDGE OF THE MEMBER, THE PIPE SHALL BE PROTECTED BY SHIELD
 PLATES. PROTECTIVE SHIELD PLATES SHALL BE A MINIMUM OF 16 GA. STEEL. PLATES SHALL COVER AREA OF THE PIPE WHERE THE MEMBERS ARE NOTCHED OR BORED, AND SHALL EXTEND A MINIMUM OF 2" ABOVE SOLE PLATES AND
 BELOW TOP PLATES.
 ALL WATER HEATERS AND WATER HEATER PLUMBING TO BE SUPPLIED AND INSTALLED IN BASEMENT BY OTHERS IN ACCORDANCE WITH ALL RECOGNIZED PLUMBING CODES.
 AIR ADMITTANCE VALVES MAY SUBSTITUTE ROOF VENTS AT VARIOUS LOCATIONS PER APPLICABLE STATE AND LOCAL PLUMBING CODES. THE 3" MAIN VENT MUST BE VENTED THRU THE ROOF AND CANNOT BE MECHANICALLY VENTED.

Builder: R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.
 Title: DWV Notes

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 Michael Faller

| | | | |
|-----------|------------|----------------|--------------------|
| Scale: | Date: | Sheet: | Revision: |
| N.T.S. | 08/03/2015 | 3558 | |
| Drawn By: | None | Checked: | None |
| None | None | Drawn: | None |
| | | SN: | 40289 |
| | | Dir: | Custom Built Homes |
| | | Manufact. No.: | RJ553-A1 |
| | | Part: | DN |

NOTE:

1. TOTAL BTU's=0
2. MAX. COLUMN LENGTH = 0'
3. SHUT-OFF VALVE REQ'D. FOR EACH APPLIANCE.
4. ONLY ONE F.P. AVAILABLE.
5. ALL LINES NOT SPECIFIED ARE 1/2" (OPTION FIXTURES NOT CONSIDERED)
6. GAS LINE MATERIAL IS BLACK STEEL PIPE AND CONFORMS TO ASTM A53 Gr. A.

ALL DIMENSIONS FROM REAR AND MARRIAGE EDGE

NO GAS APPLIANCES

| | |
|-----------------------------------|-------|
| HANGER SPACING - STEEL PIPE (GAS) | |
| MAX HORIZONTAL SPACING (FT.) | 6'-0" |
| MAX VERTICAL SPACING (FT.) | 6'-0" |

GAS PIPE SIZING BASED ON TABLE 402.4(2) FOR NATURAL GAS OR TABLE 402.4(26) FOR LPG. ALL PIPING IS SCHEDULE 40 METALLIC PIPE.

Builder: R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.

Title: Gas Lines

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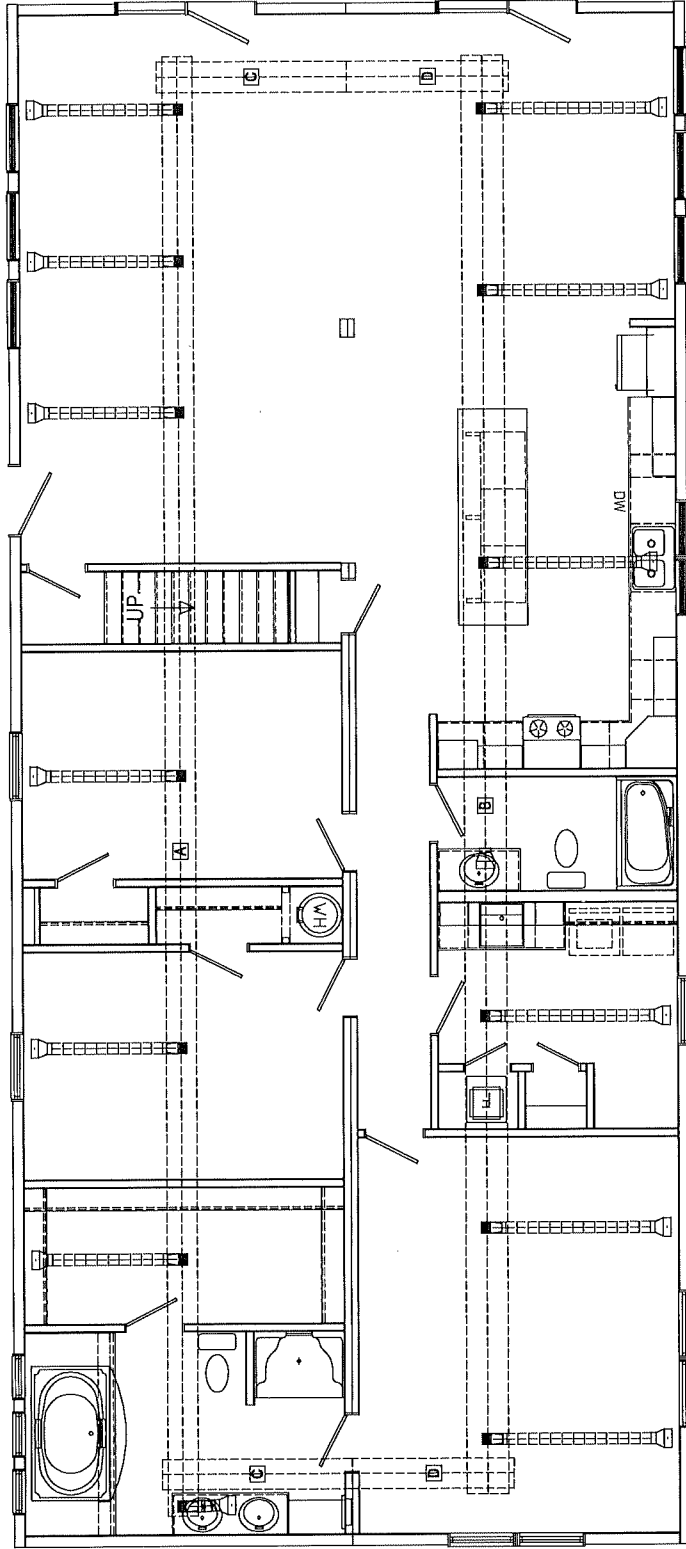
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Michael Falter

FINISHED AND INSPECTED ON-SITE BY OTHERS PER APPLICABLE CODES

Date: 08/05/2015
 Reference: NONE
 Scale: CUSTOM
 Drawn By: ME
 Cust. Stock: Custom Built Homes
 Dr: Custom Built Homes
 SN: 40299

Manufacturing No.: RJ553-A1
 P.C.: GA



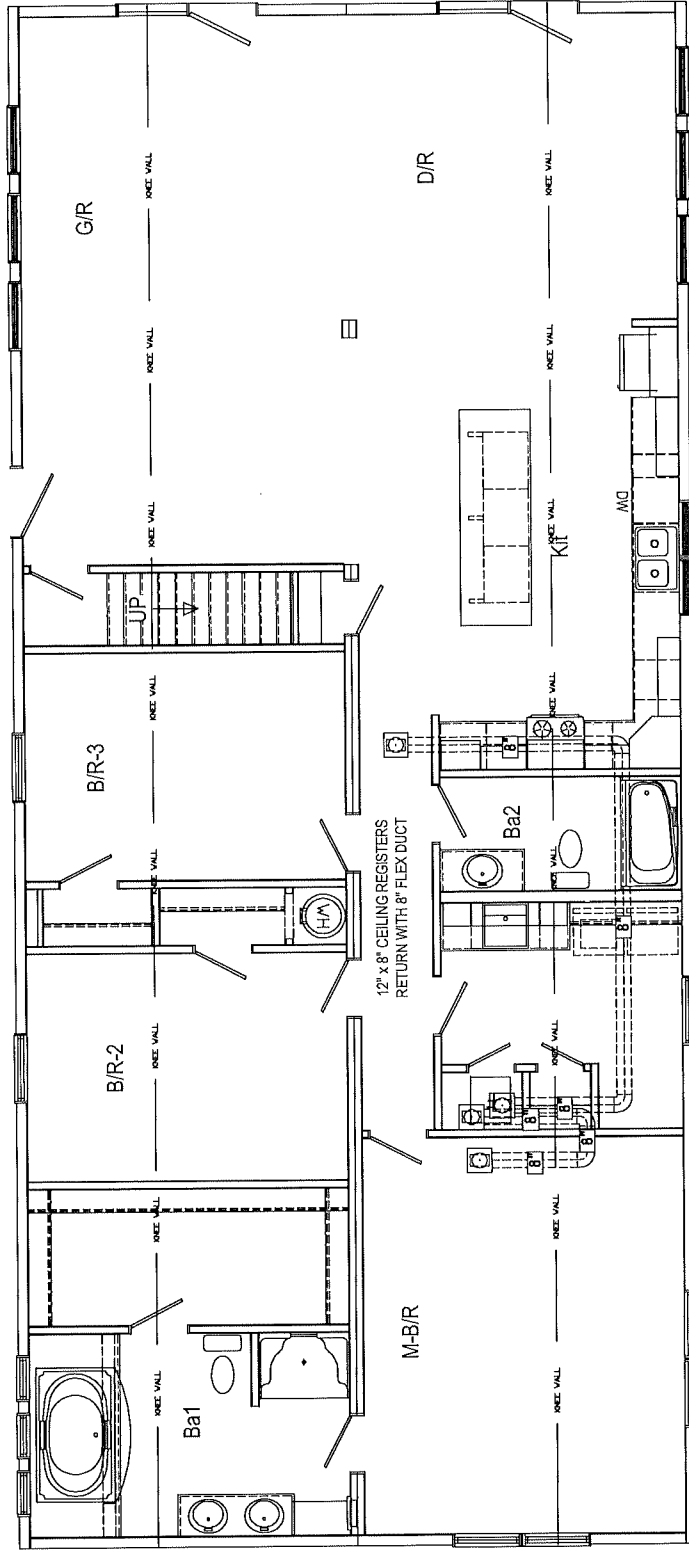
| HVAC SCHEDULE | | | |
|---------------|-----|------------------|------------|
| LABEL | QTY | DESCRIPTION | LENGTH |
| A | 1 | DUCT - 7.5x16.13 | 64'-4 1/8" |
| B | 1 | DUCT - 7.5x22.13 | 63'-5 1/8" |
| C | 2 | DUCT - 7.5x16.13 | 8'-5 1/8" |
| D | 2 | DUCT - 7.5x16.13 | 7'-2 1/8" |

**HVAC MUST BE INSTALLED BY A LICENSED
HVAC TECHNICIAN - PER CODE REQUIREMENTS**

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08/06/15
Michael Faller

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| | | | | | | | | | |
|--|----------------------|-------------------|--------------|----------------|---------------|--------------|-------------------------|-------------------------|-----------------------|
| Builder: R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp. | Calcutt: 3228 | Revisions: | Date: | Number: | Scale: | Date: | Drawn: | Check: | Modifying No.: |
| Title: Perimeter Heat Duct Layout | | | | | 3/8" = 1'-0" | 08/23/15 | Dir: Custom Built Homes | Dir: Custom Built Homes | RJ553-A1 |
| | | | | | None | None | SN: 40299 | SN: 40299 | HS |



| Return Air Material/Quantity List | |
|-----------------------------------|-----|
| Storage Box (13x13x9) | 4 |
| 12x8 Ceiling Grille | 4 |
| 8" Insulated Flex Duct | 42' |
| 8" Start Collar | 4 |

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 Michael Fallor

RETURNS IN CEILING IN ADDITION TO AIR THRU GRILLES/OPENINGS

| | | | | | | | |
|-----------|---------|------|--------|---------------|------------|------------------------|----------------|
| Revisions | Callout | Date | Number | Scale: | Date: | Cut: | Modifying No.: |
| | 3265 | | | 3/16" = 1'-0" | 08/03/2015 | Stack | RJ553-A1 |
| | | | | Drawn By: | Reference: | Dr. Custom Built Homes | HR |
| | | | | NE | NONE | SN: 40289 | HR |

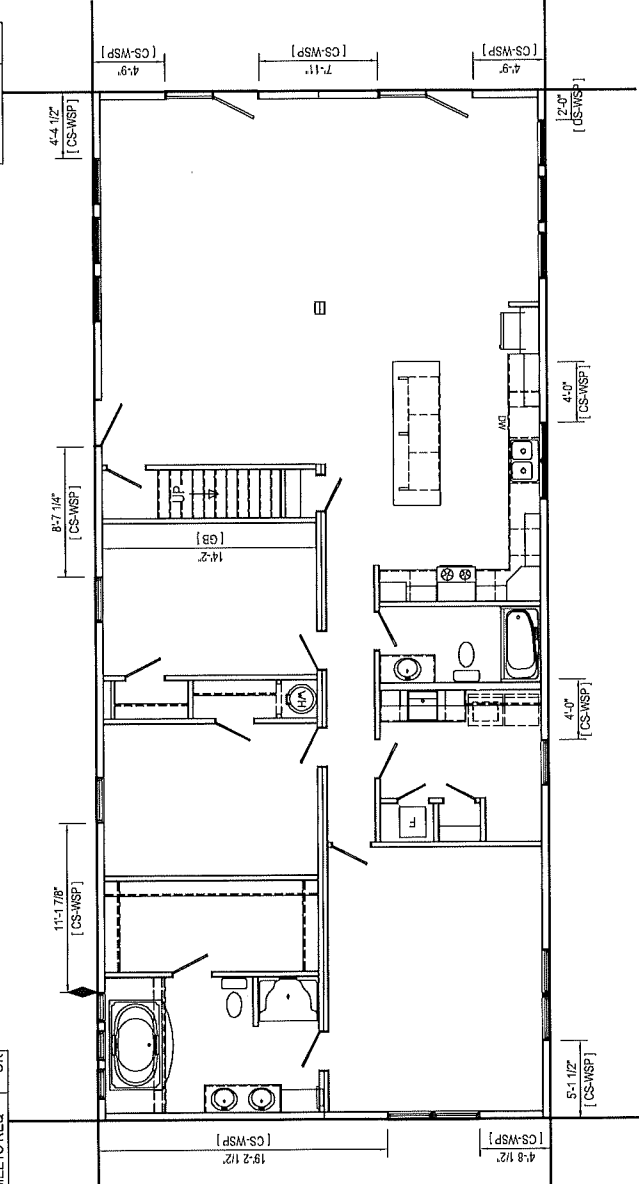
Builder: R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.
 Title: Ceiling Return Air System

| | |
|----------------|-------|
| VERTICAL BWL 2 | |
| REQUIRED | 21.14 |
| PROVIDED | 24.5 |
| % SHEATHED | 88.1% |
| MEETS REQ | OK |

| | |
|----------------|-------|
| VERTICAL BWL 1 | |
| REQUIRED | 21.14 |
| PROVIDED | 23.92 |
| % SHEATHED | 79.7% |
| MEETS REQ | OK |

| | |
|------------------|-------|
| HORIZONTAL BWL 1 | |
| REQUIRED | 10.24 |
| PROVIDED | 24.14 |
| % SHEATHED | 57.9% |
| MEETS REQ | OK |

| | |
|------------------|--------|
| HORIZONTAL BWL 2 | |
| REQUIRED | 10.24 |
| PROVIDED | 15.125 |
| % SHEATHED | 63.5% |
| MEETS REQ | OK |



(1) SIMPSON CS16 W/ (7) 10D NAILS PER END FACTORY INSTALLED FROM STUD TO RIM BELOW

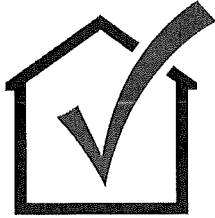
| Unit | Method | Wind Load | Width | Length | Exposure | Roof Pitch | Sidewall Height | Seismic | Max. Mean Roof Height |
|------|---------|-----------|--------|--------|----------|------------|-----------------|---------|-----------------------|
| MAIN | NC_2012 | 130 mph | 30'-0" | 68'-0" | C | 9/12 | 9'-0" | C | IRC |

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FOUNDATION TIE-DOWN MUST BE CONNECTED ON-SITE BY POINT LOAD LOCATIONS AS NOTED (BY OTHERS). ALTERNATIVE TIE DOWN CONNECTION METHODS APPROVED BY A LOCAL ENGINEER MAY BE USED. REFER TO THE IRC FOR FOUNDATION TIE DOWN REQUIREMENTS FOR 100 MPH OR LESS WIND ZONES

| | | | |
|----------|--|-----------|-------------------------|
| Builder: | R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp. | Client: | 3269 |
| Title: | Braced Walls-Prescriptive | Scale: | 1/8" = 1'-0" |
| | | Date: | 08/06/2015 |
| | | Drawn by: | NE |
| | | Checked: | Dir. Custom Built Homes |
| | | Revise: | SW: 40289 |
| | | Manager: | RJ553-A1 |
| | | Page: | BWP |



REScheck Software Version 4.6.2.0 Compliance Certificate

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Michael Faller

Project Title: RJ553-A1

Energy Code: **North Carolina Energy Conservation Code**
 Location: **Pender County, North Carolina**
 Construction Type: **Single Family**
 Project Type: **New construction**
 Glazing Area Percentage: **18%**
 Heating Degree Days: **2999**
 Climate Zone: **3**

Construction Site:
 22019 Hwy 17
 Hampstead, NC 28443

Owner/Agent:
 Stock
 Custom Built Homes

Designer/Contractor:
 R-Anell Housing Group, LLC
 Subsidiary of The Commodore
 Corporation
 235 Anthony Grove Rd.
 Crouse, NC 28033

Compliance: Passes using UA trade-off

Compliance: **7.5% Better Than Code** Maximum UA: **442** Your UA: **409** Maximum SHGC: **0.30** Your SHGC: **0.27**

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules.
 It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

| Assembly | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | Glazing or Door U-Factor | UA |
|---|-------------------------|----------------|---------------|--------------------------|----|
| Wall 1 [1walls]: Wood Frame, 16" o.c. | 1764 | 19.0 | 0.0 | | 83 |
| Keystone Swing Patio Door 7282 [Qty 2]: Glass SHGC: 0.30 | 86 | | | 0.350 | 30 |
| Hinged - Exterior - 6 Panel [Qty 1]: Solid | 22 | | | 0.220 | 5 |
| Kinro 3658 [Qty 6]: Vinyl Frame:Double Pane with Low-E SHGC: 0.24 | 88 | | | 0.340 | 30 |
| Kinro 3612TRN [Qty 6]: Vinyl Frame:Double Pane with Low-E SHGC: 0.35 | 18 | | | 0.320 | 6 |
| (2) Kinro 3012 Transoms [Qty 1]: Vinyl Frame:Double Pane with Low-E SHGC: 0.35 | 5 | | | 0.320 | 2 |
| (2) Kinro 3040 [Qty 1]: Vinyl Frame:Double Pane with Low-E SHGC: 0.24 | 17 | | | 0.340 | 6 |
| Kinro 2454 [Qty 3]: Vinyl Frame:Double Pane with Low-E SHGC: 0.33 | 27 | | | 0.350 | 9 |
| (2) Kinro 3668 [Qty 2]: Vinyl Frame:Double Pane with Low-E SHGC: 0.24 | 69 | | | 0.340 | 23 |
| Kinro 3668 [Qty 3]: Vinyl Frame:Double Pane with Low-E SHGC: 0.24 | 52 | | | 0.340 | 18 |
| Walls around stairway: Wood Frame, 24" o.c. | 284 | 13.0 | 0.0 | | 21 |
| 30" Door for stairway: Solid | 17 | | | 0.500 | 9 |
| Floor 1: All-Wood Joist/Truss:Over Outside Air | 2040 | 19.0 | 0.0 | | 96 |
| Ceiling 1: Flat Ceiling or Scissor Truss | 839 | 31.0 | 0.0 | | 29 |
| Ceiling 2 [Between knee walls]: Flat Ceiling or Scissor Truss | 1201 | 30.0 | 0.0 | | 42 |

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the North Carolina Energy Conservation Code requirements in REScheck Version 4.6.2.0 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

N. Edwards
 Name - Title

Signature

8/3/2015
 Date

Project Notes:

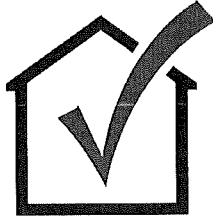
9/12 roof pitch 24" o.c.
9 ft. walls
30'-0" x 68'-0"
Kinro windows without grids

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Michael Faller



REScheck Software Version 4.6.2.0 Inspection Checklist

Energy Code: **North Carolina Energy Conservation Code**
 Location: **Pender County, North Carolina**
 Construction Type: **Single Family**
 Project Type: **New construction**
 Glazing Area Percentage: **18%**
 Heating Degree Days: **2999**
 Climate Zone: **3**

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Ceilings:

- Ceiling 1: Flat Ceiling or Scissor Truss, R-31.0 cavity insulation

Comments: _____

- Ceiling 2 [Between knee walls]: Flat Ceiling or Scissor Truss, R-30.0 cavity insulation

Comments: _____

Above-Grade Walls:

- Wall 1 [1walls]: Wood Frame, 16" o.c., R-19.0 cavity insulation

Comments: _____

- Walls around stairway: Wood Frame, 24" o.c., R-13.0 cavity insulation

Comments: _____

Windows:

- Kinro 3658 [Qty 6]: Vinyl Frame:Double Pane with Low-E, U-factor: 0.340, SHGC: 0.24,

For windows without labeled U-factors, describe features:

#Panes ____ Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

- Kinro 3612TRN [Qty 6]: Vinyl Frame:Double Pane with Low-E, U-factor: 0.320, SHGC: 0.35,

For windows without labeled U-factors, describe features:

#Panes ____ Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

- (2) Kinro 3012 Transoms [Qty 1]: Vinyl Frame:Double Pane with Low-E, U-factor: 0.320, SHGC: 0.35,

For windows without labeled U-factors, describe features:

#Panes ____ Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

- (2) Kinro 3040 [Qty 1]: Vinyl Frame:Double Pane with Low-E, U-factor: 0.340, SHGC: 0.24,

For windows without labeled U-factors, describe features:

#Panes ____ Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

- Kinro 2454 [Qty 3]: Vinyl Frame:Double Pane with Low-E, U-factor: 0.350, SHGC: 0.33,

For windows without labeled U-factors, describe features:

#Panes ____ Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

- (2) Kinro 3668 [Qty 2]: Vinyl Frame:Double Pane with Low-E, U-factor: 0.340, SHGC: 0.24,

For windows without labeled U-factors, describe features:

#Panes ____ Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

- Kinro 3668 [Qty 3]: Vinyl Frame:Double Pane with Low-E, U-factor: 0.340, SHGC: 0.24,

For windows without labeled U-factors, describe features:

#Panes _____ Frame Type _____ Thermal Break? _____ Yes _____ No

Comments: _____

Doors:

- Keystone Swing Patio Door 7282 [Qty 2]: Glass, U-factor: 0.350, SHGC: 0.30,

Comments: _____

- Hinged - Exterior - 6 Panel [Qty 1]: Solid, U-factor: 0.220

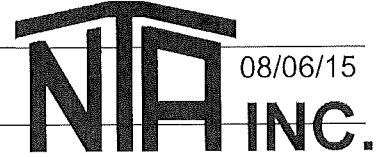
Comments: _____

- 30" Door for stairway: Solid, U-factor: 0.500

Comments: _____

This door is exempt from the U-factor requirement.

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Floors:

- Floor 1: All-Wood Joist/Truss:Over Outside Air, R-19.0 cavity insulation

Comments: _____

Floor insulation is installed to maintain permanent continuous contact with the underside of the subfloor decking, and insulation ends are blocked. Insulation supports that are noncontinuous (i.e., tension support wires) are spaced no more than 18 inches apart and are within 6 inches from each end of the insulation.

Solar Heat Gain Coefficient:

- Solar Heat Gain Coefficient (SHGC) values are determined in accordance with the NFRC test procedure or taken from the default table.

Air Leakage:

- Joints (including rim joist junctions), attic access openings, penetrations, and all other such openings in the building envelope that are sources of air leakage are sealed with caulk, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material.
- Air barrier and sealing exists on common walls between dwelling units, on exterior walls behind tubs/showers, and in openings between window/door jambs and framing.
- Recessed lights in the building thermal envelope are 1) type IC rated and ASTM E283 labeled and 2) sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
- Access doors separating conditioned from unconditioned space (e.g., attic, unconditioned basements and crawlspaces) are weather-stripped and insulated (without insulation compression or damage). Where loose fill insulation exists, a wood framed or equivalent baffle is installed to maintain insulation application. Required insulation values are as follows:
- (1) Hinged vertical doors have a minimum of R-5 insulation.
 - (2) Hatches/scuttle hole covers have a minimum of R-10 insulation.
 - (3) Pull down stairs have a minimum of R-5 rigid insulation.
- Site-built masonry fireplaces have doors and comply with Section R1006 of the North Carolina Residential Code for combustion air.

Air Sealing and Insulation:

- Building envelope air tightness and insulation installation complies with one of the following (mark the method that was applied):
- (1) _____ Post rough-in blower door test result of less than or equal to 5 ACH at 50 pascals.
 - (2) _____ Post rough-in blower door test result of less than or equal to 0.30 CFM50/square foot of surface area.
 - (3) _____ Visual inspection. The following items, along with all other air leakage requirements in this report, are certified by the builder, permit holder or registered design professional as completed.
 - (a) Ceiling/attic: Sealants or gaskets provide a continuous air barrier system joining the top plate of framed walls with either the ceiling drywall or the top edge of wall drywall to prevent air leakage. Top plate penetrations are sealed.
 - (b) Ceiling/attic: For ceiling finishes that are not air barrier systems such as tongue-and-groove planks, air barrier systems (e.g., taped house wrap) are used above the finish.
 - (c) Above Grade Walls: Sill plate is gasketed or sealed to subfloor or slab.
 - (d) Windows/doors: Space between window and door jambs and framing are sealed.
 - (e) Floors: Air barrier system is installed at any exposed edge of insulation.

Materials Identification and Installation:

- Materials and equipment are installed in accordance with the manufacturer's installation instructions.
- Materials and equipment are identified so that compliance can be determined.
- Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment have been provided.

- Insulation R-values and glazing U-factors are clearly marked on the building plans or specifications.

Duct Insulation:

- Supply and return ducts in unconditioned space and outdoors are insulated to R-8. Supply ducts inside semi-conditioned space are insulated to R-4.

Duct Construction and Testing:

- Building framing cavities are not used as supply ducts.
- All joints and seams of air ducts, air handlers, filter boxes, and building cavities used as return ducts are sealed. Joints and seams comply with Part V - Mechanical, Section 603.9 of the North Carolina Residential Code.
- Postconstruction total duct leakage test (including air handler enclosure) has been performed and results are less than or equal to 122.4 cfm (6 cfm per 100 ft2 of conditioned floor area) pressure differential of 0.1 inches w.g. Tests are performed according to North Carolina Energy Conservation Code guidelines (Section 403.2.2).

Temperature Controls:

- Where the primary heating system is a forced air-furnace, at least one programmable thermostat is installed to control the primary heating system and has set-points initialized at 70 degree F for the heating cycle and 78 degree F for the cooling cycle.
- Heat pumps having supplementary electric-resistance heat have controls that prevent supplemental heat operation when the compressor can meet the heating load.

Heating and Cooling Equipment Sizing:

- Heating and cooling equipment shall be sized in accordance with the North Carolina Mechanical Code.
- For systems serving multiple dwelling units documentation has been submitted demonstrating compliance with 2009 IECC Commercial Building Mechanical and/or Service Water Heating (Sections 503 and 504).

Circulating Service Hot Water Systems:

- Circulating service hot water pipes are insulated to R-2.
- Circulating service hot water systems include an automatic or accessible manual switch to turn off the circulating pump when the system is not in use.

Heating and Cooling Piping Insulation:

- HVAC piping conveying fluids above 105 degrees F or chilled fluids below 55 degrees F are insulated to R-3.

Swimming Pools:

- Heated swimming pools have an on/off heater switch.
- Pool heaters operating on natural gas or LPG have an electronic pilot light.
- Timer switches on pool heaters and pumps are present.

Exceptions:

Where public health standards require continuous pump operation.

Where pumps operate within solar- and/or waste-heat-recovery systems.

- Heated swimming pools and in-ground permanently installed spas have a vapor-retardent cover. **Michael Faller**

Exceptions:

Covers are not required when 70% of the heating energy is from site-recovered energy or solar energy source.

Lighting Requirements:

- A minimum of 75 percent of the lamps in permanently installed lighting fixtures can be categorized as one of the following:
 - (a) Compact fluorescent
 - (b) T-8 or smaller diameter linear fluorescent
 - (c) 40 lumens per watt for lamp wattage <= 15
 - (d) 50 lumens per watt for lamp wattage > 15 and <= 40
 - (e) 60 lumens per watt for lamp wattage > 40

Other Requirements:

- Snow- and ice-melting systems with energy supplied from the service to a building shall include automatic controls capable of shutting off the system when a) the pavement temperature is above 50 degrees F, b) no precipitation is falling, and c) the outdoor temperature is above 40 degrees F (a manual shutoff control is also permitted to satisfy requirement 'c').

Certificate:

- A permanent certificate is provided on or in the electrical distribution panel listing the predominant insulation R-values; window U-factors; type and efficiency of space-conditioning and water heating equipment. The certificate does not cover or obstruct the visibility of the circuit directory label, service disconnect label or other required labels.

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NOTES TO FIELD: (Building Department Use Only)

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North Carolina Energy Efficiency Certificate

Insulation Rating R-Value

| | |
|----------------------------------|-------|
| Ceiling / Roof | 30.00 |
| Above-Grade Wall | 19.00 |
| Below-Grade Wall | 0.00 |
| Floor | 19.00 |
| Ductwork (unconditioned spaces): | _____ |

Glass & Door Rating U-Factor SHGC

| | | |
|--------|------|------|
| Window | 0.34 | 0.24 |
| Door | 0.35 | 0.30 |

Heating & Cooling Equipment Efficiency

Heating System: _____

Cooling System: _____

Water Heater: _____

Building Air Leakage and Duct Test Results

Air Leakage Compliance Method: Visual Inspection
 Air Leakage Test

Building Air Leakage Test Results _____

Name of Air Leakage Tester _____

Duct Tightness Test Results _____

Name of Duct Tester _____

Name: _____ Date: _____

Comments:

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Collar Tie to Rafter Connection Information

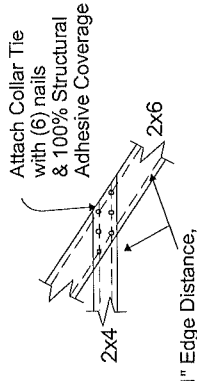
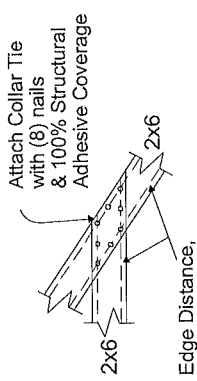
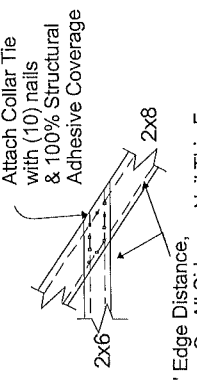
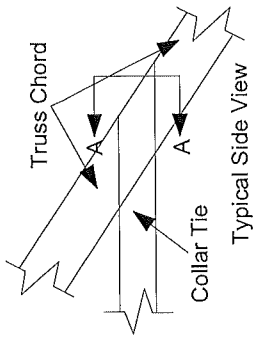
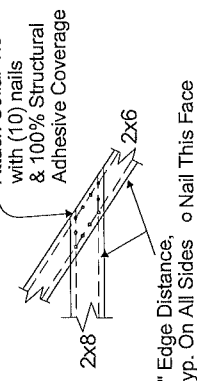
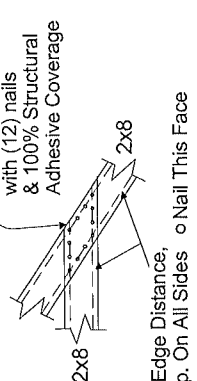
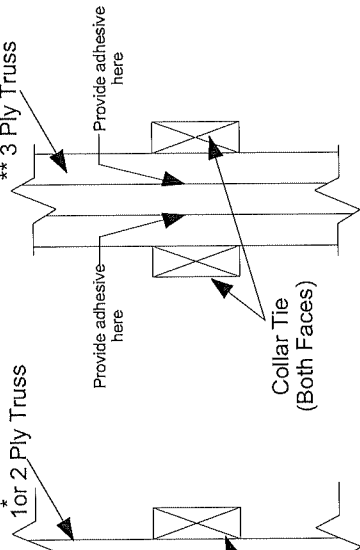
The truss manufacturer, Universal Forest Products has issued a bulletin 05-02 that provides details for the collar tie to rafter connection requirements when the truss design states that the collar tie must be “Rigid”. The following detail sheet shows the appropriate connection using 100% coverage of adhesive and fasteners for the collar tie connection for the “Rigid” requirement. The following sheets have been included: roof truss print and the connection requirements according to the size of the rafter and collar tie.

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| Job | Truss | Truss Type | Qty | Ply | UFP ENGINEERING Bulletin 05-02 REF # 2001092 | Page 1 |
|---|--|---|--|-----|--|--------|
| 32802 | A098602 | RIGID COLLAR TIE CONNECTION DETAILS | 1 | 1 | | |
| Universal Forest Products Inc., Grand Rapids, MI 49525. | | | | | | |
| <p>2x4 Collar Tie Nailed to 2x6 Chord</p>  <p>Detail (A)</p> | <p>2x6 Collar Tie Nailed to 2x6 Chord</p>  <p>Detail (B)</p> | <p>2x6 Collar Tie Nailed to 2x8 Chord</p>  <p>Detail (C)</p> |  <p>Truss Chord</p> <p>Collar Tie</p> <p>Typical Side View</p> <p>APPROVED BY NIA INC. 08/06/15 I hereby certify that the design and construction of this structure meets or exceeds all applicable codes, specifications, and requirements of applicable State Laws. Michael Fallor</p> | | | |
| <p>2x8 Collar Tie Nailed to 2x6 Chord</p>  <p>Detail (D)</p> | <p>2x8 Collar Tie Nailed to 2x8 Chord</p>  <p>Detail (E)</p> | <p>Acceptable Alternate Applications</p> <p>See truss print for which detail is actually used</p>  <p>1 Ply Truss</p> <p>1 or 2 Ply Truss</p> <p>** 3 Ply Truss</p> <p>Collar Tie (One Face)</p> <p>Collar Tie (Both Faces)</p> <p>Collar Tie (Both Faces)</p> <p>Section A-A</p> <p>Section A-A</p> <p>Section A-A</p> | | | | |
| <p>Power Driven Nails Rigid Collar Tie Connection Details</p> <p>A) Side member shall be fastened with structural adhesive that meets the requirements of CA25-4 or ASTM-2559. Maximum wood to wood gap = 1/16".</p> <p>B) Bostitch .131" Dia. x 3" nails (or equal)</p> <p>C) Refer to Bulletin 05-02 chart entitled "Typical Allowable Design Properties for Rigid Side Members" issued April 25, 2005.</p> <p>* For 1 ply, offset nails with respect to each face. Consult the reviewing engineer when using this option. ** Consult the reviewing engineer when using this option.</p> <p>WARNING - Verify design parameters and READ NOTES This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer, not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding distribution, quality control, storage, delivery, erection and bracing, consult OSF-86 Quality Standard, DSR-86 Bracing Specification, and HB-61 Handling, Installing and Bracing Recommendation available from Truss Plate Institute, 585 D'Onofrio Drive, Madison, WI 53719. J:\support\file\Submittal\13172\resprod\mfr\CD - copyright 2004 by Universal Forest Products, Inc.</p> <p>Universal Forest Products, Inc. 2801 EAST BELTLINE RD. NE GRAND RAPIDS, MI 49502 PHONE (616) 364-4161 FAX (616) 365-0080</p> | | | | | | |

| | | | | | | |
|--------------|-------------------|----------------------------|----------|----------|-------------------------|-------|
| Job 63229 | Truss CC784608 | Truss Type HINGED ATTIC | Qty 1 | Ply 1 | Commodore 315 D30C9F | # 266 |
|--------------|-------------------|----------------------------|----------|----------|-------------------------|-------|

Universal Forest Products Inc., Grand Rapids, MI 49525, Mike Patten 7.330 e Feb 17 2012 MiTek Industries, Inc. Wed May 02 13:53:07 2012 Page 1 of 2

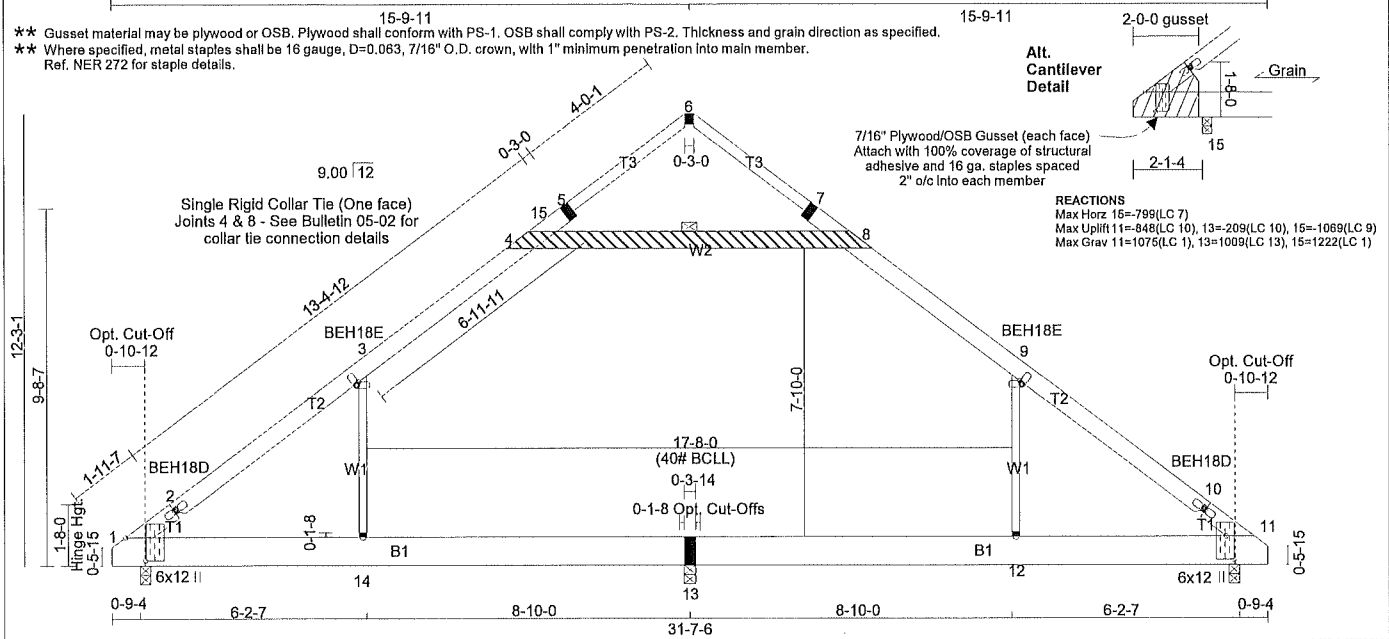


Plate Offsets (X, Y): [1:0-8-5,0-6-12], [2:0-0-11,0-0-0], [3:0-0-11,0-1-2], [9:0-0-11,0-1-2], [10:0-0-11,0-0-0], [11:0-8-5,0-2-7]

| | | | | | |
|--|--|---|---|--|--|
| SPACING: 2-0-0 LOADING (psf) TCLL 23.1 (Ground Snow=30.0) TCDL 7.0 BCLL 0.0 BCDL 7.0 | SPACING: 1-4-0 LOADING (psf) TCLL 34.7 (Ground Snow=45.0) TCDL 10.5 BCLL 0.0 BCDL 10.5 | Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr YES Code IBC2009/TPI2007 | CSI TC 0.62 BC 0.78 WB 0.72 (Matrix) | DEFL in (loc) l/defl L/d Vert(LL) 0.54 13-14 >337 240 Vert(TL) -0.53 12-13 >342 180 Horz(TL) 0.02 11 n/a n/a Attic -0.36 13-14 595 360 | PLATES GRIP MT20 197/144 MII18 141/138 Weight: 166 lb FT = 0% |
|--|--|---|---|--|--|

| | |
|---|---|
| LUMBER TOP CHORD 2x6 SPF No.2 *Except* T3: 2x4 SPF No.2 BOT CHORD 2x10 SPF No.2 WEBS 2x3 SPF Stud *Except* W2: 2x6 SPF No.2 | BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc [P] purlins. BOT CHORD Rigid ceiling directly applied or 5-5-2 oc bracing. WEBS 1 Row at midpt |
|---|---|

REACTIONS (lb/size) 1=1110/0-3-8 (min. 0-1-12), 11=1110/0-3-8 (min. 0-1-12), 13=937/0-3-14 (min. 0-1-8)
Max Horz 1=799(LC 7)
Max Uplift 1=873(LC 9), 11=875(LC 10), 13=251(LC 9)
Max Grav 1=1110(LC 1), 11=1110(LC 1), 13=1051(LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1164/845, 2-3=-984/830, 3-4=-984/1036, 4-15=-307/205, 5-15=-284/205, 5-6=-170/220, 6-7=-168/218, 7-8=-301/205, 8-9=-985/1036, 9-10=-982/824, 10-11=-1162/839
BOT CHORD 1-14=-447/794, 13-14=-444/794, 12-13=-444/794, 11-12=-445/794
WEBS 9-12=-279/529, 3-14=-286/535, 4-8=-690/1054

REQUIRED FIELD JOINT CONNECTIONS
- Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
4=690/1054/153/7625, 5=264/210/182/0, 6=142/221/182/0, 7=266/208/183/0, 8=690/1054/153/7573, 12=279/529/0/0, 13=444/794/526/0, 14=286/535/0/0

NOTES
1) Wind: ASCE 7-05; 130mph @24in o.c.; TCDL=2.8psf; BCDL=2.8psf; (Alt. 150mph @16in o.c.; TCDL=4.2psf; BCDL=4.2psf); h=30ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

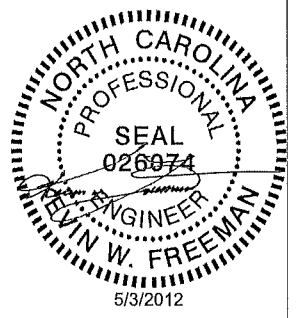
The professional engineering seal indicates that a licensed professional has reviewed the design under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

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Michael Fallor
E-signed by Kevin Freeman



WARNING - Verify design parameters and READ NOTES

Universal Forest Products, Inc. 2801 EAST BELTLINE RD, NE
PHONE (616)-364-6161 FAX (616)-365-0060 GRAND RAPIDS, MI 49525

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\MitekSuppl\templates\ufp.tpe© copyright 2012 by: Universal Forest Products, Inc.

| | | | | | |
|--------------|-------------------|----------------------------|----------|----------|-------------------------|
| Job 63229 | Truss CC784608 | Truss Type HINGED ATTIC | Qty 1 | Ply 1 | Commodore 315 D30C9F |
|--------------|-------------------|----------------------------|----------|----------|-------------------------|

Universal Forest Products Inc., Grand Rapids, MI 49525, Mike Patten 7.330 e Feb 17 2012 MITek Industries, Inc. Wed May 02 13:53:07 2012 Page 2 of 2

- 2) TCELL: ASCE 7-05; Pg=30.0 psf (ground snow); Ps=23.1 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
- 3) Roof design snow load has been reduced to account for slope.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) See BEH18 DETAILS for plate placement.
- 8) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 9) All additional member connections shall be provided by others for forces as indicated.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-8
- 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14, 12-13
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 873 lb uplift at joint 1, 875 lb uplift at joint 11 and 251 lb uplift at joint 13.
- 14) Fixity of members 1 - 2, 10 - 11, 1 - 14, 12 - 11, 4 - 8 have been changed.
- 15) This truss has been designed in accordance with the 2009 IBC Section 2303.4.6, 2009 IRC Section 802.10.2.
- 16) Attic room checked for L/360 deflection.
- 17) This truss has been designed in accordance with the 2006 IBC Sec 2303.4.2, 2006 IRC Sec 802.10.2
- 18) Take precaution to keep the chords in plane, any bending or twisting of the hinge plate must be repaired before the building is put into service.
- 19) If shown, field installed members are an integral part of this design. To ensure proper performance, all field installed members must be installed prior to applying any loading to the truss.
- 20) Based on CC784607
- 21) Added cantilever detail

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INC.

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WARNING - Verify design parameters and READ NOTES

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TP11. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\MitekSupp\templates\ufp.tpe © copyright 2012 by: Universal Forest Products, Inc.

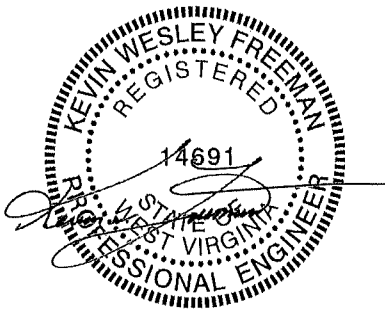
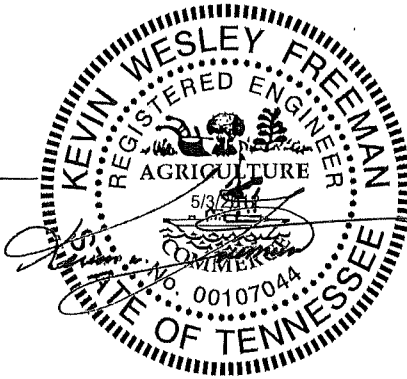
Universal Forest Products, Inc. 2801 EAST BELTLINE RD, NE
PHONE (616)-364-6161 FAX (616)-365-0060 GRAND RAPIDS, MI 49525





UNIVERSAL FOREST PRODUCTS, INC.

| Job | Truss | Customer | MFG |
|-------|----------|-----------|-----|
| 63229 | CC784608 | COMMODORE | 315 |



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Michael Faller



Load Short Form
Entire House
AMS of Indiana, Inc.

Job: RJ553-A1
Date: 8/4/15
By: AMS of Indiana, Inc.

APPROVED BY



08/06/15

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Fax: 574-294-1366 Email: eng-ams@comcast.net

Project Information

For: The Commodore Corporation
RJ553-A1

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Design Information

| | Htg | Clg | Infiltration | |
|-----------------------------|-----|-----|----------------------|-------------|
| Outside db (°F) | 14 | 88 | Method | Simplified |
| Inside db (°F) | 70 | 75 | Construction quality | Average |
| Design TD (°F) | 56 | 13 | Fireplaces | 1 (Average) |
| Daily range | - | M | | |
| Inside humidity (%) | 50 | 50 | | |
| Moisture difference (gr/lb) | 50 | 30 | | |

HEATING EQUIPMENT

| | |
|------------------|----------------|
| Make | Generic |
| Trade | |
| Model | AFUE 100 |
| AHRI ref | |
| Efficiency | 100 AFUE |
| Heating input | 9.1 kW |
| Heating output | 31103 Btuh |
| Temperature rise | 28 °F |
| Actual air flow | 1109 cfm |
| Air flow factor | 0.038 cfm/Btuh |
| Static pressure | 0.50 in H2O |
| Space thermostat | |

COOLING EQUIPMENT

| | |
|--------------------------|-------------------|
| Make | Generic |
| Trade | |
| Cond | SEER 13.0 |
| Coil | |
| AHRI ref | |
| Efficiency | 11.6 EER, 13 SEER |
| Sensible cooling | 17429 Btuh |
| Latent cooling | 7469 Btuh |
| Total cooling | 24898 Btuh |
| Actual air flow | 1109 cfm |
| Air flow factor | 0.057 cfm/Btuh |
| Static pressure | 0.50 in H2O |
| Load sensible heat ratio | .083 |

| ROOM NAME | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|-----------|------------|-----------------|-----------------|---------------|---------------|
| M BED | 274 | 4820 | 3420 | 184 | 195 |
| UTILITY | 120 | 1639 | 1291 | 62 | 74 |
| BA | 62 | 682 | 191 | 26 | 11 |
| KIT\DIN | 503 | 7484 | 6127 | 285 | 350 |
| HALL | 50 | 0 | 0 | 0 | 0 |
| GREAT | 424 | 6874 | 3744 | 262 | 214 |
| BED 3 | 154 | 1945 | 1392 | 74 | 80 |
| CLOS | 41 | 0 | 0 | 0 | 0 |
| BED 2 | 154 | 1963 | 1400 | 75 | 80 |
| WIC | 94 | 862 | 249 | 33 | 14 |
| M BA | 143 | 2831 | 1596 | 108 | 91 |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2015 15.0.05 RSU02009

2015-Aug-04 11:08:55

Page 1

F:\DS\Commodore\RJ553-A1.rup Calc = MJ8 Front Door faces: W

| | | | | | | |
|-------------------|---|------|-------|-------|------|------|
| Entire House | d | 2018 | 29099 | 19411 | 1109 | 1109 |
| Other equip loads | | | 2692 | 625 | | |
| Equip. @ 0.93 RSM | | | | 18653 | | |
| Latent cooling | | | | 4207 | | |
| TOTALS | | 2018 | 31791 | 22860 | 1109 | 1109 |

APPROVED BY

NIA 08/06/15
INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Michael Faller

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Project Summary
Entire House
AMS of Indiana, Inc.

Job: RJ553-A1
 Date: 8/4/15
 By: AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Fax: 574-294-1366 Email: eng-ams@comcast.net

Project Information

For: The Commodore Corporation
 RJ553-A1

Notes:



08/06/15
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Michael Fuller

Design Information

Weather: Asheville Regional AP, NC, US

Winter Design Conditions

| | |
|------------|-------|
| Outside db | 14 °F |
| Inside db | 70 °F |
| Design TD | 56 °F |

Summer Design Conditions

| | |
|---------------------|----------|
| Outside db | 88 °F |
| Inside db | 75 °F |
| Design TD | 13 °F |
| Daily range | M |
| Relative humidity | 50 % |
| Moisture difference | 30 gr/lb |

Heating Summary

| | |
|-----------------------|------------|
| Structure | 25634 Btuh |
| Ducts | 3464 Btuh |
| Central vent (47 cfm) | 2692 Btuh |
| Humidification | 0 Btuh |
| Piping | 0 Btuh |
| Equipment load | 31791 Btuh |

Sensible Cooling Equipment Load Sizing

| | |
|-------------------------|------------|
| Structure | 18394 Btuh |
| Ducts | 1016 Btuh |
| Central vent (47 cfm) | 625 Btuh |
| Blower | 0 Btuh |
| Use manufacturer's data | n |
| Rate/swing multiplier | 0.93 |
| Equipment sensible load | 18653 Btuh |

Infiltration

| | |
|----------------------|-------------|
| Method | Simplified |
| Construction quality | Average |
| Fireplaces | 1 (Average) |

| | Heating | Cooling |
|------------------|---------|---------|
| Area (ft²) | 2018 | 2018 |
| Volume (ft³) | 16140 | 16140 |
| Air changes/hour | 0.39 | 0.16 |
| Equip. AVF (cfm) | 106 | 43 |

Latent Cooling Equipment Load Sizing

| | |
|---------------------------------|------------|
| Structure | 1802 Btuh |
| Ducts | 1530 Btuh |
| Central vent (47 cfm) | 875 Btuh |
| Equipment latent load | 4207 Btuh |
| Equipment total load | 22860 Btuh |
| Req. total capacity at 0.70 SHR | 2.2 ton |

Heating Equipment Summary

| | |
|------------------|----------------|
| Make | Generic |
| Trade | |
| Model | AFUE 100 |
| AHRI ref | |
| Efficiency | 100 AFUE |
| Heating input | 9.1 kW |
| Heating output | 31103 Btuh |
| Temperature rise | 28 °F |
| Actual air flow | 1109 cfm |
| Air flow factor | 0.038 cfm/Btuh |
| Static pressure | 0.50 in H2O |
| Space thermostat | |

Cooling Equipment Summary

| | |
|--------------------------|-------------------|
| Make | Generic |
| Trade | |
| Cond | SEER 13.0 |
| Coil | |
| AHRI ref | |
| Efficiency | 11.6 EER, 13 SEER |
| Sensible cooling | 17429 Btuh |
| Latent cooling | 7469 Btuh |
| Total cooling | 24898 Btuh |
| Actual air flow | 1109 cfm |
| Air flow factor | 0.057 cfm/Btuh |
| Static pressure | 0.50 in H2O |
| Load sensible heat ratio | 0.83 |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite@ Universal 2015 15.0.05 RSU02009

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Page 1



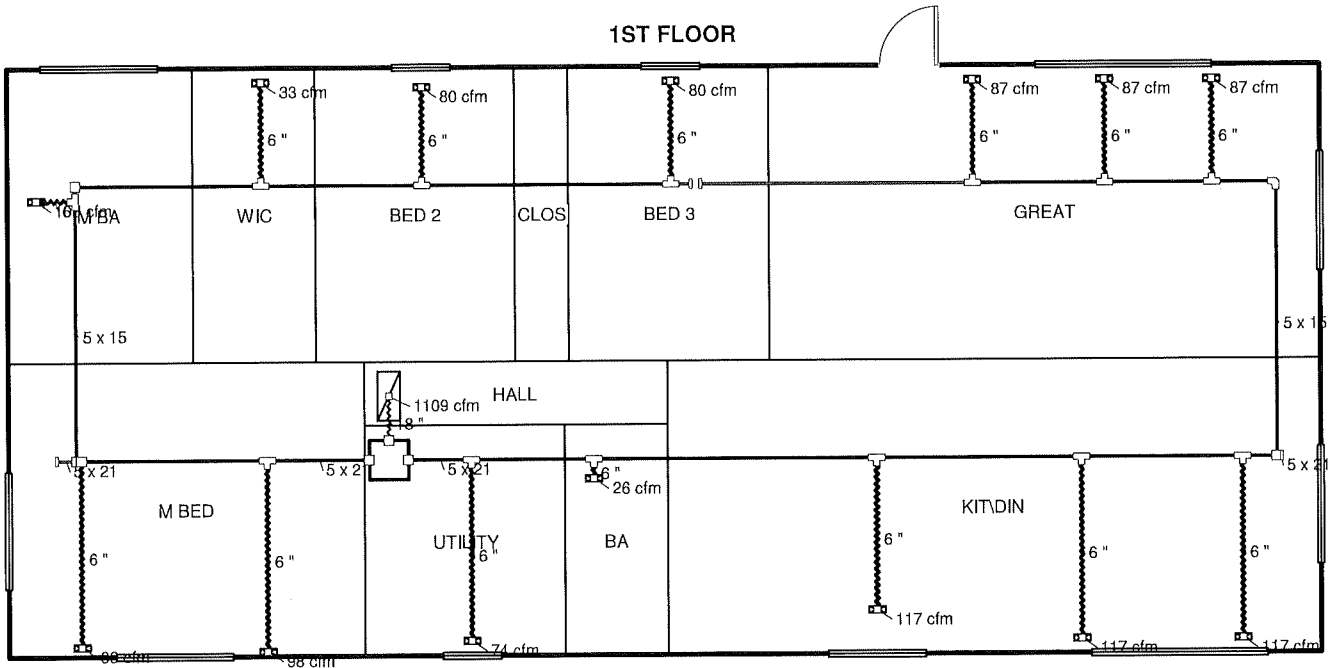
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Michael Faller

1ST FLOOR



Job #: RJ553-A1
Performed by AMS of Indiana, Inc. for:
The Commodore Corporation
RJ553-A1

AMS of Indiana, Inc.
3933 E. Jackson Blvd.
Elkhart, IN 46516
Phone: 574-293-5526 Fax: 574-294-1366
eng-ams@comcast.net

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Page 1
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Duct System Summary

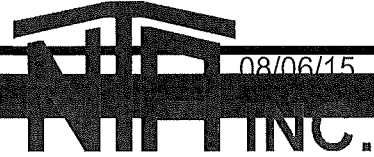
Entire House

AMS of Indiana, Inc.

Job: RJ553-A1
 Date: 8/4/15
 By: AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Fax: 574-294-1366 Email: eng-ams@comcast.net

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08/06/15

Project Information

For: The Commodore Corporation
 RJ553-A1

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Michael Faller

| | Heating | Cooling |
|------------------------------------|----------------------|----------------------|
| External static pressure | 0.50 in H2O | 0.50 in H2O |
| Pressure losses | 0.26 in H2O | 0.26 in H2O |
| Available static pressure | 0.24 in H2O | 0.24 in H2O |
| Supply / return available pressure | 0.199 / 0.041 in H2O | 0.199 / 0.041 in H2O |
| Lowest friction rate | 0.066 in/100ft | 0.066 in/100ft |
| Actual air flow | 1109 cfm | 1109 cfm |
| Total effective length (TEL) | 364 ft | |

Supply Branch Detail Table

| Name | Design (Btuh) | Htg (cfm) | Clg (cfm) | Design FR | Diam (in) | H x W (in) | Duct Matl | Actual Ln (ft) | Ftg.Eqv Ln (ft) | Trunk |
|----------|---------------|-----------|-----------|-----------|-----------|------------|-----------|----------------|-----------------|-------|
| BA | h 682 | 26 | 11 | 0.113 | 6.0 | 0x0 | VIFx | 10.5 | 165.0 | st1 |
| BED 2 | c 1400 | 75 | 80 | 0.072 | 6.0 | 0x0 | VIFx | 51.8 | 225.0 | st5 |
| BED 3 | c 1392 | 74 | 80 | 0.071 | 6.0 | 0x0 | VIFx | 64.8 | 215.0 | st5 |
| GREAT | h 2291 | 87 | 71 | 0.068 | 6.0 | 0x0 | VIFx | 79.3 | 215.0 | st4 |
| GREAT-A | h 2291 | 87 | 71 | 0.066 | 6.0 | 0x0 | VIFx | 67.0 | 235.0 | st4 |
| GREAT-B | h 2291 | 87 | 71 | 0.067 | 6.0 | 0x0 | VIFx | 72.5 | 225.0 | st4 |
| KITDIN | c 2042 | 95 | 117 | 0.104 | 6.0 | 0x0 | VIFx | 31.8 | 160.0 | st1 |
| KITDIN-A | c 2042 | 95 | 117 | 0.103 | 6.0 | 0x0 | VIFx | 43.8 | 150.0 | st1 |
| KITDIN-B | c 2042 | 95 | 117 | 0.104 | 6.0 | 0x0 | VIFx | 52.0 | 140.0 | st1 |
| M BA | h 2831 | 108 | 91 | 0.085 | 6.0 | 0x0 | VIFx | 30.3 | 205.0 | st5 |
| M BED | c 1710 | 92 | 98 | 0.121 | 6.0 | 0x0 | VIFx | 24.3 | 140.0 | st2 |
| M BED-A | c 1710 | 92 | 98 | 0.121 | 6.0 | 0x0 | VIFx | 15.0 | 150.0 | st2 |
| UTILITY | c 1291 | 62 | 74 | 0.106 | 6.0 | 0x0 | VIFx | 12.5 | 175.0 | st1 |
| WIC | h 862 | 33 | 14 | 0.071 | 6.0 | 0x0 | VIFx | 43.8 | 235.0 | st5 |

Supply Trunk Detail Table

| Name | Trunk Type | Htg (cfm) | Clg (cfm) | Design FR | Veloc (fpm) | Diam (in) | H x W (in) | Duct Material | Trunk |
|------|------------|-----------|-----------|-----------|-------------|-----------|------------|---------------|-------|
| st4 | Peak AVF | 262 | 214 | 0.066 | 503 | 9.6 | 15 x 5 | RectFbg | st1 |
| st5 | Peak AVF | 290 | 265 | 0.071 | 556 | 9.8 | 15 x 5 | RectFbg | st2 |
| st1 | Peak AVF | 636 | 649 | 0.066 | 890 | 13.4 | 21 x 5 | RectFbg | |
| st2 | Peak AVF | 473 | 460 | 0.071 | 649 | 11.8 | 21 x 5 | RectFbg | |



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Page 1

Return Branch Detail Table

| Name | Grill Size (in) | Htg (cfm) | Clg (cfm) | TEL (ft) | Design FR | Veloc (fpm) | Diam (in) | H x W (in) | Stud/Joist Opening (in) | Duct Matl | Trunk |
|------|-----------------|-----------|-----------|----------|-----------|-------------|-----------|------------|-------------------------|-----------|-------|
| rb1 | 0x0 | 1109 | 1109 | 62.3 | 0.066 | 628 | 18.0 | 0x 0 | | VIFx | |

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CLOTHES DRYER EXHAUST VENT INSTALLATION

PER THE NORTH CAROLINA RESIDENTIAL CODE, DRYER INSTALLATION MUST MEET SECTION 402.4.1 OF THE 2012 NORTH CAROLINA ENERGY CONSERVATION CODE AND SECTIONS 504.1 THRU 506.4.6.2 OF THE 2012 NORTH CAROLINA MECHANICAL CODE.

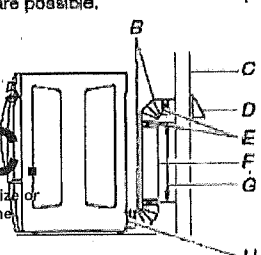
Recommended exhaust installations
Typical installations vent the dryer from the rear of the dryer.
Other installations are possible.

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08/06/13

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Michael Fallor

- 
- A. DRYER
B. ELBOW
C. WALL
D. EXHAUST HOOD WITH BACK DRAFT DAMPER
E. CLAMPS
F. RIGID METAL OR FLEXIBLE METAL VENT
G. VENT LENGTH NECESSARY TO CONNECT ELBOWS
H. EXHAUST OUTLET

2012 North Carolina Energy Conservation Code

402.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. The following shall be caulked, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material. 1. Deleted. 2. Site-built windows, doors and skylights. 3. Opening between window and door assemblies and their respective jambs and framings. 4. Utility penetrations. 5. Dropped ceilings or chases adjacent to the thermal envelope. 6. Floor framing under knee walls. 7. Walls and ceilings separating the garage from conditioned spaces. 8. Behind tubs and showers on exterior walls. 9. Common walls between dwelling units. 10. Other sources of infiltration.

402.5 Moisture control. (Mandatory). The building design shall not create conditions of accelerated deterioration from moisture condensation. Above-grade frame walls, floors and ceiling not ventilated to allow moisture to escape shall be provided with an approved vapor retarder. The vapor retarder shall be installed on the warm-in-winter side of the thermal insulation. **Exceptions:** 1. In construction where moisture or its freezing will not damage the materials. 2. Frame walls, floors and ceiling in jurisdictions in Zones 3 and 4A. (Crawl space floor vapor retarders are not exempted.) 3. Where other approved means to avoid condensation are provided.

403.2.2 Sealing. Ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply with the North Carolina Mechanical Code. Exception: Ducts exposed within the conditioned space they serve shall not be required to be sealed.

2012 North Carolina Mechanical Code

Chapter 5

504.6 Domestic clothes dryer ducts. Exhaust ducts for domestic clothes dryers shall be constructed of metal and shall have a smooth interior finish. With the exception of the transition duct, flexible ducts are prohibited. The exhaust duct shall be a minimum nominal size of 4 inches (102 mm) in diameter. The entire exhaust system shall be supported and secured in place and shall terminate not less than 12 inches above finished grade. The male end of the duct at overlapped duct joints shall extend in the direction of airflow. Clothes dryer transition ducts used to connect the appliance to the exhaust duct system shall be limited to single lengths not to exceed 8 feet (2438 mm) and shall be listed and labeled for the application. Transition ducts shall not be concealed within construction and must remain entirely within the room in which the appliance is installed.

Exception: Where the duct termination is less than 12 inches above finished grade an area way shall be provided with a cross sectional area not less than 200 square feet. The bottom of the duct termination shall be no less than 12 inches above the area way bottom.

504.6.1 Maximum length. The maximum length of a clothes dryer exhaust duct shall not exceed 45 feet (13716 mm) from the dryer location to the outlet terminal. The maximum length of the duct shall be reduced 5 feet (1524 mm) for each 45 degree (0.79 rad) bend and 10 feet (3048 mm) for each 90 degree (1.6 rad) bend. The maximum length of the exhaust duct does not include the transition duct. **Exception:** Where the make and model of the clothes dryer to be installed is known and the manufacturer's installation instructions for such dryer are provided to the code official, the maximum length of the exhaust duct, including any transition duct, shall be permitted to be in accordance with the dryer manufacturer's installation instructions. See Table 603.4 for gage thickness. Where exhaust ducts are installed in concealed locations, the developed length of the exhaust duct system shall be indicated by permanent labels or tags installed in an observable location.

504.6.2 Rough-in required. Where a compartment or space for a domestic clothes dryer is provided, and exhaust duct system shall be installed in accordance with Sections 504.6 and 504.6.1.

**NORTH CAROLINA
MODULAR PLANS REVIEW CHECKLIST**

revised MAY 2011

PAGE 1 of 3

| | |
|---|---|
| Manufacturer | R-Anell Housing Group |
| Model number/name | RJ553-A1 |
| 3rd Party | NTA |
| Review Date | 8/16/15 |
| Reviewer | MICHAEL PAUER |
| | Plan Sheet Page # and NOTES |
| QC MANUAL (current and complete) | OK |
| APPENDIX B (required and attached) | N/A - Does Not Apply to Residential Modulares |
| PLAN SHEETS | |
| Each plan sheet third-party stamped with approver's name | OK |
| Each plan sheet is numbered and/or indexed | OK |
| GENERAL (cover sheet) | |
| Code References | Cover sheet |
| Statement regarding connection to public utilities | Cover sheet |
| Statement regarding bathrooms if not included | NA |
| Construction type | Cover sheet - 5B (Wood Frame - Unprotected) |
| Occupancy classification | Cover sheet - Single Family Residential |
| Fire resistance ratings (if required) | NA |
| Floor live load | Cover sheet |
| Roof live load | Cover sheet |
| Design wind velocity | Cover sheet |
| Seismic information (commercial projects) | NA |
| Thermal zones | Cover sheet |
| Notice to Inspections department regarding items to be site installed | Cover sheet |
| FLOOR PLANS | |
| Interior and exterior wall layouts | Page FP |
| Door and window schedule | Schedules and General Notes Page |
| Light and Ventilation requirements | Schedules and General Notes Page |
| Attic access (size and location) | Page FP |
| Non-prescriptive headers | N/A |
| Safety glazing requirements | Shown on floor plan with "S" symbol |
| Fire rating of Exterior walls (if applicable) | NA |
| EXTERIOR ELEVATIONS | |
| Exterior materials | Page EL |
| Attic ventilation requirements | Page XS |
| PLUMBING | |
| Plan | Pages WH, WC, DL, DN, & GA |
| All fixtures furnished by mfg. shown on plans | Pages WH, WC, DL, DN, GA (references design manual) |
| Materials (water supply & distribution, DWV, storm drainage) | Pages WH, WC, DL, DN, & GA |
| Supply and waste risers, including DWV system (generic) beneath the building. | Pages WH, WC, DL, DN, & GA |
| Water heater (type and capacity) | Electric 50 gal |

**NORTH CAROLINA
MODULAR PLANS REVIEW CHECKLIST**

PAGE 2 of 3

revised MAY 2011

Plan Sheet Page # and NOTES

MECHANICAL

| | |
|---|-----------------------------------|
| Design calculations | N/A |
| Installed unit capacity | ResCheck |
| Supply and returns (locations and sizes) | Pages HS & HR |
| Duct sizes | Page HS |
| Specifications (units, ducts) | Page HS (reference design manual) |
| All appliances furnished by mfg. shown on plans | Page FP |

ELECTRICAL

| | |
|--|---------|
| Plan | Page EP |
| Location of all electrical boxes | Page EP |
| Electrical panel location | Page EP |
| Note regarding main disconnect (if applicable) | Page NG |
| Exterior lighting and receptacles | Page EP |
| Ground level receptacles (if applicable) | Page EP |
| Smoke detector location(s) | Page EP |
| Electrical load calculations | Page NG |
| Electrical panel layout (breaker and wire sizes, circuit schedule) | Page NG |
| Panel and service entrance sizes | Page NG |
| All fixtures furnished by mfg. shown on plans | Page EP |

ACCESSIBILITY

(for other than 1 & 2 family dwellings)

| | |
|---|-----|
| Entrances and means of egress | N/A |
| Doors, doorways, and door hardware | N/A |
| Stairs and handrails | N/A |
| Toilet rooms, plumbing fixtures, grab bars, etc | N/A |
| Bathrooms and shower rooms | N/A |
| Occupancy specific requirements | N/A |
| Multi-family dwellings - Type A and B units | N/A |

FLOOR X-SECTION

| | |
|--|----------|
| Joist and beam sizes and spacing | Page XS |
| Materials species and grade | Page XS |
| Sheathing, decking, and concrete as applicable | Page XS |
| Fastening instructions | Page XS |
| Insulation | ResCheck |
| Details as required for clarification | N/A |

WALL X-SECTION

| | |
|---------------------------------------|--|
| Stud and column sizes and spacing | Page XS |
| Materials species and grade | Page XS |
| Sheathing and bracing | Page XS |
| Headers and lintels | Page XS |
| Finishes | Page XS |
| Fastening instructions | Cover Sheet (references Installation Manual) |
| Insulation | ResCheck |
| Details as required for clarification | ResCheck |

MODULAR PLANS REVIEW CHECKLIST

PAGE 3 of 3

revised MAY 2011

Plan Sheet Page # and NOTES

CEILING/ROOF X-SECTION

| | |
|---|-----------------------------------|
| Truss, rafter, and beam spacing | Page XS, Cover Sheet, truss dwgs. |
| Lumber species and grade | Design Manual |
| Sheathing and decking | Page XS |
| Finishes | Page XS |
| Fastening instructions | Installation Manual |
| Insulation | ResCheck |
| Details including NC sealed truss designs or manual reference | Design Manual |

FOUNDATION PLAN

| | |
|---|----------------------------------|
| Footings, pier, and curtain wall locations and specifications | Page FD20# & Installation Manual |
| X-sections with dimensions | Page FD20# & Installation Manual |
| Anchorage - sill plate to piers and curtain wall | Page FD20# & Installation Manual |
| Anchorage - building to sill plate | Page FD20# & Installation Manual |
| Anchorage - tie downs (lateral and longitudinal) | Page FD20# & Installation Manual |
| Soil bearing capacity | Page FD20# & Installation Manual |
| Minimum concrete compressive strength | Page FD20# & Installation Manual |
| Mortar type | Page FD20# & Installation Manual |
| Ventilation requirements (with and without vapor barrier) | Page FD20# & Installation Manual |
| Crawl space access requirements | Page FD20# & Installation Manual |

ENERGY COMPLIANCE

| | |
|------------------------|----------|
| Demonstrate compliance | ResCheck |
|------------------------|----------|

SET-UP INSTRUCTIONS

| | |
|--|--|
| Floor and ceiling connections | Page 32 of Installation Manual |
| Marriage wall connections | Page 32 of Installation Manual |
| Roof set-up connections | Page 32 of Installation Manual |
| Plumbing connections | Pages 48-50 of Installation Manual |
| Mechanical connections | Page 50 of Installation Manual |
| Electrical connections | Page 46-48 of Installation Manual |
| Fire stopping | not specifically addressed in installation manual (inherent in design) |
| Air infiltration elimination | not specifically addressed in installation manual (part of IRC requirements) |
| Notice to inspections department attachment if set-up instructions are by attachment | Cover Sheet |

ITEMS NOT INSPECTED IN PLANT

| | |
|---|-------------|
| List of items not inspected by 3rd. Party | Cover Sheet |
| Notice to inspections department | Code page |



Application # _____

Harnett County Central Permitting

PO Box 65 Lillington, NC 27546

910-893-7525 Fax 910-893-2793 www.harnett.org/permits

* Each section below to be filled out by whomever performing work. Must be owner or licensed contractor. Address, company name & phone must match information on license.

Application for Residential Building and Trades Permit

Owner's Name: _____ Date: _____

Site Address: _____ Phone: _____

Subdivision: _____ Lot: _____

Description of Proposed Work: _____ Total Job Cost: _____

General Contractor Information

Building Contractor's Company Name _____

Telephone _____

Address _____

Email Address _____

License # _____

Electrical Contractor Information

Description of Work _____ Service Size: _____ Amps T-Pole: ___ Yes ___ No

Electrical Contractor's Company Name _____

Telephone _____

Address _____

Email Address _____

License # _____

Mechanical/HVAC Contractor Information

Description of Work _____

Mechanical Contractor's Company Name _____

Telephone _____

Address _____

Email Address _____

License # _____

Plumbing Contractor Information

Description of Work _____ # Baths _____

Plumbing Contractor's Company Name _____

Telephone _____

Address _____

Email Address _____

License # _____

Insulation Contractor Information

Insulation Contractor's Company Name & Address _____

Telephone _____

***NOTE: General Contractor / owner must fill out and sign the second page of this application.**



I hereby certify that I have the authority to make necessary application, that the application is correct and that the construction will conform to the regulations in the Building, Electrical, Plumbing and Mechanical codes, and the Harnett County Zoning Ordinance. I state the information on the above contractors is correct as known to me and that **by signing below I have obtained all subcontractors permission to obtain these permits** and if **any** changes occur including listed contractors, site plan, number of bedrooms, building and trade plans, Environmental Health permit changes or proposed use changes, I certify it is my responsibility to notify the Harnett County Central Permitting Department of any and all changes.

EXPIRED PERMIT FEES - 6 Months to 2 years permit re-issue fee is \$150.00. After 2 years re-issue fee is as per current fee schedule.

Signature of Owner/Contractor/Officer(s) of Corporation

Date

Affidavit for Worker's Compensation N.C.G.S. 87-14

The undersigned applicant being the:

_____ General Contractor _____ Owner _____ Officer/Agent of the Contractor or Owner

Do hereby confirm under penalties of perjury that the person(s), firm(s) or corporation(s) performing the work set forth in the permit:

_____ Has three (3) or more employees and has obtained workers' compensation insurance to cover them.

_____ Has one (1) or more subcontractors(s) and has obtained workers' compensation insurance to cover them.

_____ Has one (1) or more subcontractors(s) who has their own policy of workers' compensation insurance covering themselves.

_____ Has no more than two (2) employees and no subcontractors.

While working on the project for which this permit is sought it is understood that the Central Permitting Department issuing the permit may require certificates of coverage of worker's compensation insurance prior to issuance of the permit and at any time during the permitted work from any person, firm or corporation carrying out the work.

Sign w/Title: _____ Date: _____