### North Carolina 2018 - Simulated Performance **Alternative (N1105)**

**Property** 1037 Atkins Rd Fuquay Varina, NC 27526 Model: Custom

Organization Model Energy Andrew King

**Inspection Status** Results are projected

Builder

Template - Cunningham Construction Group - 1037 Atkins

1037 Atkins Rd

**Cunningham Construction** Group

This report is based on a proposed design and does not confirm field enforcement of design elements.

#### Annual Energy Cost

| Design                                  | North Carolina 2018 Performance | As Designed |
|---|---------------------------------|-------------|
| Heating                                 | \$1,722                         | \$1,624     |
| Cooling                                 | \$451                           | \$491       |
| Water Heating                           | \$319                           | \$319       |
| Mechanical Ventilation                  | \$0                             | \$0         |
| SubTotal - Used to determine compliance | \$2,492                         | \$2,434     |
| Lights & Appliances w/out Ventilation   | \$813                           | \$813       |
| Onsite generation                       | \$0                             | \$0         |
| Total                                   | \$3,305                         | \$3,247     |

R405.3 Source Energy Exception: The proposed home uses 2.82 MBtu LESS source energy than the reference home.

#### Requirements

| 405.3               | Performance-based compliance passes by 2.3%                               |   |
|---------------------|---|---|
| R402.4.2.2          | Air Leakage Testing   | Air sealing is 0.27 CFM50 / ft² Shell Area. It must not exceed 0.30 CFM50 / ft² Shell Area. |
| R402.5              | Area-weighted average fenestration SHGC                                   |   |
| R402.5              | Area-weighted average fenestration U-Factor                               |   |
| R404.1              | Lighting Equipment Efficiency   |   |
| Mandatory Checklist | Mandatory code requirements that are not checked by Ekotrope must be met. |   |
| R403.3.1            | Duct Insulation   |   |

### Design exceeds requirements for North Carolina 2018 Performance compliance by 2.3%.

As a 3rd party extension of the code jurisdiction utilizing these reports, I certify that this energy code compliance document has been created in accordance with the requirements of Chapter 4 of the adopted International Energy Conservation Code based on WAKE County. If rating is Projected, I certify that the building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. If rating is Confirmed, I certify that the address referenced above has been inspected/tested and that the mandatory provisions of the IECC have been installed to meet or exceed the intent of the IECC or will be verified as such by another party.

| Name:         | Andrew King  | Signature:     |
|---------------|--------------|----------------|
| Organization: | Model Energy | Date:          |
|               |              | 035699         |
|               |              | THE MOINEER TO |
|               |              | W. W. William  |

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| General Building Informati       | on                     |
|----------------------------------|------------------------|
| Number Of Bedrooms               | 4                      |
| Number Of Floors                 | 2                      |
| Conditioned Floor Area [sq. ft.] | 4,621                  |
| Has Electric Vehicle Ready Space | No                     |
| Unconditioned, attached garage?  | Yes                    |
| Conditioned Volume [cu. ft.]     | 45,067                 |
| Total Units in Building          | 1                      |
| Residence Type                   | Single family detached |
| Number of Floors in Building     | -                      |
| Floor Number                     | -                      |
| Model                            | Custom                 |
| Community                        |                        |
| RESNET/IECC 2006 Climate Zone    | 4A                     |

#### **Foundation Wall**

None Present

#### **Foundation Wall Library List**

None Present

| Slab |               |             |             |          |                         |              |                  |                      |
|------|---------------|-------------|-------------|----------|-------------------------|--------------|------------------|----------------------|
| Nam  | e Library Typ | e Perimeter | Floor Grade | Carpet R | Exposed<br>Masonry Area | Surface Area | Location         | Enclosing            |
| sla  | Uninsulated   | 322         | On Grade    | 1        | 0                       | 3,478.0 ft²  | Exposed Exterior | Conditioned<br>Space |

| Slab Library | List                      |                               |                                    |                                    |                                 |               |                   |
|--------------|---------------------------|-------------------------------|------------------------------------|------------------------------------|---------------------------------|---------------|-------------------|
| Name         | Wall Construction<br>Type | Slab Completely<br>Insulated? | Underslab<br>Insulation Width [ft] | Perimeter<br>Insulation Depth [ft] | Perimeter<br>Insulation R Value | Thermal Break | Effective R-value |
| Uninsulated  | Wood Frame / Other        | No                            | 0                                  | 0                                  | 0                               | No            | 0.00              |

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| Framed Floor | r                     |          |             |              |                                |
|--------------|-----------------------|----------|-------------|--------------|--------------------------------|
| Name         | Library Type          | Carpet R | Floor Grade | Surface Area | Location                       |
| over garage  | R 19, 16"OC G1 Carpet | 0        | Above Grade | 685.0 ft²    | Unconditioned, attached garage |

| Framed Floor Lib    | rary List            |
|---------------------|----------------------|
| Nan                 | me Effective R-value |
| R 19, 16"OC G1 Carp | pet 19.566           |

| Rim Joist        |                |              |                                |
|------------------|----------------|--------------|--------------------------------|
| Name             | Library Type   | Surface Area | Location                       |
| 1st floor garage | R 13 G1, 16"OC | 22.0 ft²     | Unconditioned, attached garage |

| Rim Joist Library L | List                         |
|---------------------|------------------------------|
| Name                | Effective Insulation R-value |
| R 13 G1, 16"OC      | 12.00                        |

| Locati                        | Surface Area | Surface Color | Library Type       | Name              |
|-------------------------------|--------------|---------------|--------------------|-------------------|
| Exposed Exteri                | 3,000.0 ft²  | Medium        | R 19 FG G1 16" O.C | 1st floor ambient |
| Unconditioned, attached garaç | 220.0 ft²    | Medium        | R 19 FG G1 16" O.C | 1st floor garage  |
| Exposed Exteri                | 921.0 ft²    | Medium        | R 19 FG G1 16" O.C | 2nd floor ambient |
| Att                           | 771.0 ft²    | Medium        | R 19 FG G1 16" O.C | 2nd floor attic   |

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| Wall Library L | ist     |                   |
|----------------|---------|-------------------|
|                | Name    | Effective R-value |
|                |         |                   |
| R 19 FG G1     | 16" O.C | 16.805            |

| Name               | Library Type | Wall<br>Assignment   | Foundation<br>Wall<br>Assignment | is Operable | Overhang<br>Depth | Overhang Ft To 0<br>Top | Overhang Ft To<br>Bottom | Orientation | Surface Area |
|--------------------|--------------|----------------------|----------------------------------|-------------|-------------------|-------------------------|--------------------------|-------------|--------------|
| front 2nd unshaded | 28/32        | 2nd floor<br>ambient |                                  | Yes         | 0                 | 0                       | 0                        | Northwest   | 210.6 ft²    |
| front shaded       | 28/32        | 1st floor<br>ambient |                                  | Yes         | 8                 | 1                       | 7                        | Northwest   | 173.0 ft²    |
| left 2nd unshaded  | 28/32        | 2nd floor<br>ambient |                                  | Yes         | 0                 | 0                       | 0                        | Northeast   | 96.4 ft²     |
| left shaded        | 28/32        | 1st floor<br>ambient |                                  | Yes         | 20                | 2                       | 10                       | Northeast   | 24.0 ft²     |
| left unshaded      | 28/32        | 1st floor<br>ambient |                                  | Yes         | 0                 | 0                       | 0                        | Northeast   | 85.2 ft²     |
| rear 2nd unshaded  | 28/32        | 2nd floor<br>ambient |                                  | Yes         | 0                 | 0                       | 0                        | Southeast   | 30.6 ft²     |
| rear shaded        | 28/32        | 1st floor<br>ambient |                                  | Yes         | 8                 | 2                       | 10                       | Southeast   | 112.8 ft²    |
| rear unshaded      | 28/32        | 1st floor<br>ambient |                                  | Yes         | 0                 | 0                       | 0                        | Southeast   | 58.5 ft²     |
| right 2nd unshaded | 28/32        | 2nd floor<br>ambient |                                  | Yes         | 0                 | 0                       | 0                        | Southwest   | 96.4 ft²     |
| right shaded       | 28/32        | 1st floor<br>ambient |                                  | Yes         | 20                | 1                       | 6.1                      | Southwest   | 15.3 ft²     |
| right unshaded     | 28/32        | 1st floor<br>ambient |                                  | Yes         | 0                 | 0                       | 0                        | Southwest   | 94.9 ft²     |

| Glazing Library List |      |          |  |
|----------------------|------|----------|--|
| Name                 | Shgc | U-factor |  |
| 28/32                | 0.00 | 0.000    |  |
| 20/32                | 0.32 | 0.280    |  |

| Skylight |              |
|----------|--------------|
|          | None Present |

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#### **Skylight Library List**

None Present

| Opaque Doo  | r              |                   |                               |     |                      |        |              |                                |
|-------------|----------------|-------------------|-------------------------------|-----|----------------------|--------|--------------|--------------------------------|
| Name        | Library Type   | Wall Assignment   | Foundation Wall<br>Assignment |     | Solar<br>Absorptance |        | Surface Area | Location                       |
| attic door  | Fiberglass R-5 | 2nd floor attic   |                               | 0.9 | 0.75                 | Medium | 18.0 ft²     | Attic                          |
| front door  | Fiberglass R-5 | 1st floor ambient |                               | 0.9 | 0.75                 | Medium | 24.0 ft²     | Exposed Exterior               |
| garage door | Fiberglass R-5 | 1st floor garage  |                               | 0.9 | 0.75                 | Medium | 24.0 ft²     | Unconditioned, attached garage |

### **Opaque Door Library List**

Name Effective R-value

Fiberglass R-5

| Roof Insulation                                      |                           |                                |      |              |          |
|--|---------------------------|--------------------------------|------|--------------|----------|
| Name Library Type                                    | Attic Exterior Area [ft²] | Clay or Concrete Roof<br>Tiles |      | Surface Area | Location |
| attic R 38 Attic BATT FG G1<br>2x10 24"OC NO Radiant | 5,828.2                   | No                             | Dark | 4,163.0 ft²  | Attic    |

5.00

| Roof Insulati                          | Roof Insulation Library List |                   |  |  |  |
|--|------------------------------|-------------------|--|--|--|
| Name                                   | Has Radiant Barrier          | Effective R-value |  |  |  |
| R 38 Attic BATT FG G1<br>2x10 24"OC NO | No                           | 32.263            |  |  |  |

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Dehumidifier

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None Present

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| Whole House                        | Infiltration           |                                      |               |                                  |                       |
|------------------------------------|------------------------|--------------------------------------|---------------|----------------------------------|-----------------------|
| Infiltration                       | Mea                    | surement Type                        | Shelter Class |                                  |                       |
| 3605 CFM at 50 Pa                  | Blo                    | wer-door tested                      | 4             |                                  |                       |
|                                    |                        |                                      |               |                                  |                       |
|                                    |                        |                                      |               |                                  |                       |
| Mechanical V                       | entilation (           |                                      |               |                                  |                       |
|                                    |                        | None Present                         |               |                                  |                       |
|                                    |                        |                                      |               |                                  |                       |
|                                    |                        |                                      |               |                                  |                       |
| Lighting                           |                        |                                      |               |                                  |                       |
| % Interior Fluorescent<br>Lighting | % Interior LED Lightin | g % Exterior Fluorescent<br>Lighting |               | % Garage Fluorescent<br>Lighting | % Garage LED Lighting |
| 0                                  | 10                     | 0                                    | 0             | 0                                | 0                     |
|                                    |                        |                                      |               |                                  |                       |
| Onsite Gener                       | ration                 |                                      |               |                                  |                       |
| Offisite Gener                     | ation                  | None Present                         |               |                                  |                       |
|                                    |                        | None Present                         |               |                                  |                       |
|                                    |                        |                                      |               |                                  |                       |
| Onsite Gener                       | ation Library Li       | 2 <b>†</b>                           |               |                                  |                       |
| Olisite Gener                      | ation Library Li       | None Present                         |               |                                  |                       |
|                                    |                        |                                      |               |                                  |                       |
|                                    |                        |                                      |               |                                  |                       |
| Solar Genera                       | tion                   |                                      |               |                                  |                       |
|                                    |                        | None Present                         |               |                                  |                       |
| l                                  |                        |                                      |               |                                  |                       |
|                                    |                        |                                      |               |                                  |                       |

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#### **Dehumidifier Library List**

None Present

| Conditioning             | Equipment                               |               |                      |                      |                           |             |
|--------------------------|---|---------------|----------------------|----------------------|---------------------------|-------------|
| Name                     | Library Type                            | Serial Number | Heating Percent Load | Cooling Percent Load | Hot Water Percent<br>Load | Location    |
| 1st floor main a/c       | z 16 SEER A/C 3 ton<br>variable speed   |               | 0%                   | 55%                  | 0%                        | Unspecified |
| 1st floor main furnace   | z 92 AFUE Gas Furn 64k                  |               | 55%                  | 0%                   | 0%                        | Unspecified |
| 1st floor master a/c     | z 16 SEER A/C 2.0 ton<br>variable speed |               | 0%                   | 20%                  | 0%                        | Unspecified |
| 1st floor master furnace | z 92 AFUE Gas Furn 48k                  |               | 20%                  | 0%                   | 0%                        | Unspecified |
| 2nd floor heat pump      | z 24k 16 SEER 9.0hspf                   |               | 25%                  | 25%                  | 0%                        | Unspecified |
| Water Heater             | Rinnai R94LS                            |               | 0%                   | 0%                   | 100%                      | Unspecified |

| Equipment Type: Rinr | nai R94LS                   |
|----------------------|-----------------------------|
| Equipment Type       | Residential Water Heater    |
| Fuel Type            | Natural Gas                 |
| Distribution Type    | Hydronic Delivery (Radiant) |
| Hot Water Efficiency | 0.82 Energy Factor          |
| Tankless?            | Yes                         |
|                      |                             |

| Equipment Type: z 16      | SEER A/C 2.0 ton variable speed |
|---------------------------|---------------------------------|
| Equipment Type            | Air Conditioner                 |
| Fuel Type                 | Electric                        |
| Distribution Type         | Forced Air                      |
| Motor Type                | ECM (Variable Speed)            |
| Cooling Efficiency        | 16 SEER                         |
| Cooling Capacity [kBtu/h] | 24                              |

| Equipment Type: z 16 S    | SEER A/C 3 ton variable speed |
|---------------------------|-------------------------------|
| Equipment Type            | Air Conditioner               |
| Fuel Type                 | Electric                      |
| Distribution Type         | Forced Air                    |
| Motor Type                | ECM (Variable Speed)          |
| Cooling Efficiency        | 16 SEER                       |
| Cooling Capacity [kBtu/h] | 36                            |

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Cooling Capacity [kBtu/h]

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| Equipment Type: z 24k 16 SEER 9.0hspf |                      |  |  |  |  |
|---------------------------------------|----------------------|--|--|--|--|
| Equipment Type                        | Air Source Heat Pump |  |  |  |  |
| Fuel Type                             | Electric             |  |  |  |  |
| Distribution Type                     | Forced Air           |  |  |  |  |
| Motor Type                            | PSC (Single Speed)   |  |  |  |  |
| Heating Efficiency                    | 9 HSPF               |  |  |  |  |
| Heating Capacity [kBtu/h]             | 24                   |  |  |  |  |
| Backup Fuel Type                      | Electric             |  |  |  |  |
| Switchover Temperature [°F]           | 0                    |  |  |  |  |
| Backup Heating Efficiency             | 1 COP                |  |  |  |  |
| Use default Supplemental Heat         | Yes                  |  |  |  |  |
| Cooling Efficiency                    | 16 SEER              |  |  |  |  |

24

| Equipment Type: z 92 AFUE Gas Furn 48k |                    |  |
|--|--------------------|--|
| Equipment Type                         | Furnace            |  |
| Fuel Type                              | Natural Gas        |  |
| Distribution Type                      | Forced Air         |  |
| Motor Type                             | PSC (Single Speed) |  |
| Heating Efficiency                     | 92 AFUE            |  |
| Heating Capacity [kBtu/h]              | 48                 |  |
| Use default EAE                        | No                 |  |
| EAE [kWh]                              | 427                |  |

| Equipment Type: z 92 AFUE Gas Furn 64k |                    |  |
|--|--------------------|--|
| Equipment Type                         | Furnace            |  |
| Fuel Type                              | Natural Gas        |  |
| Distribution Type                      | Forced Air         |  |
| Motor Type                             | PSC (Single Speed) |  |
| Heating Efficiency                     | 92 AFUE            |  |
| Heating Capacity [kBtu/h]              | 64                 |  |
| Use default EAE                        | No                 |  |
| EAE [kWh]                              | 591                |  |

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| Distribution System                |                                       |
|------------------------------------|---------------------------------------|
| Distribution Type                  | Forced Air                            |
| Heating Equipment                  | 1st floor main furnace                |
| Cooling Equipment                  | 1st floor main a/c                    |
| Sq. Feet Served                    | 2,558                                 |
| # Return Grilles                   | 2                                     |
| Supply Duct R Value                | 8                                     |
| Return Duct R Value                | 8                                     |
| Supply Duct Area [ft²]             | 690.66                                |
| Return Duct Area [ft²]             | 255.8                                 |
| Leakage to Outdoors                | 102 CFM @ 25Pa (3.99 / 100 ft²)       |
| Total Leakage                      | 102 CFM25                             |
| Total Leakage Duct Test Conditions | Post-Construction                     |
| Use Default Flow Rate              | Yes                                   |
| Duct 1                             |                                       |
| Duct Location                      | Attic (well vented)                   |
| Percent Supply Area                | 100                                   |
| Percent Return Area                | 100                                   |
| Duct 2                             |                                       |
| Duct Location                      | Basement (insulated basement ceiling) |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 3                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 4                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 5                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 6                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
|                                    |                                       |

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Percent Supply Area Percent Return Area

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| Distribution System                |                                       |
|------------------------------------|---------------------------------------|
| Distribution Type                  | Forced Air                            |
| Heating Equipment                  | 1st floor master furnace              |
| Cooling Equipment                  | 1st floor master a/c                  |
| Sq. Feet Served                    | 920                                   |
| # Return Grilles                   | 1                                     |
| Supply Duct R Value                | 8                                     |
| Return Duct R Value                | 8                                     |
| Supply Duct Area [ft²]             | 248.4                                 |
| Return Duct Area [ft²]             | 46                                    |
| Leakage to Outdoors                | 36 CFM @ 25Pa (3.91 / 100 ft²)        |
| Total Leakage                      | 36 CFM25                              |
| Total Leakage Duct Test Conditions | Post-Construction                     |
| Use Default Flow Rate              | Yes                                   |
| Duct 1                             |                                       |
| Duct Location                      | Attic (well vented)                   |
| Percent Supply Area                | 100                                   |
| Percent Return Area                | 100                                   |
| Duct 2                             |                                       |
| Duct Location                      | Basement (insulated basement ceiling) |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 3                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 4                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 5                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 6                             |                                       |
| Duct Location                      | Conditioned Space                     |

0

0

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| Distribution System                |                                       |
|------------------------------------|---------------------------------------|
| Distribution Type                  | Forced Air                            |
| Heating Equipment                  | 2nd floor heat pump                   |
| Cooling Equipment                  | 2nd floor heat pump                   |
| Sa. Feet Served                    | 1,143                                 |
| # Return Grilles                   | 1,143                                 |
| Supply Duct R Value                | 8                                     |
| Return Duct R Value                | 8                                     |
|                                    | 308 61                                |
| Supply Duct Area [ft²]             |                                       |
| Return Duct Area [ft²]             | 57.15                                 |
| Leakage to Outdoors                | 45 CFM @ 25Pa (3.94 / 100 ft²)        |
| Total Leakage                      | 45 CFM25                              |
| Total Leakage Duct Test Conditions | Post-Construction                     |
| Use Default Flow Rate              | Yes                                   |
| Duct 1                             |                                       |
| Duct Location                      | Attic (well vented)                   |
| Percent Supply Area                | 100                                   |
| Percent Return Area                | 100                                   |
| Duct 2                             |                                       |
| Duct Location                      | Basement (insulated basement ceiling) |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 3                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 4                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 5                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| Duct 6                             |                                       |
| Duct Location                      | Conditioned Space                     |
| Percent Supply Area                | 0                                     |
| Percent Return Area                | 0                                     |
| 1 Orcont Noturn Arou               | V                                     |

| Ceiling Fan     |     |  |
|-----------------|-----|--|
| Has Ceiling Fan | No  |  |
| Cfm Per Watt    | 100 |  |

| Standard |                               |
|----------|-------------------------------|
| No       |                               |
| 130      |                               |
| Yes      |                               |
| No       |                               |
| 110      |                               |
| No       |                               |
|          | No<br>130<br>Yes<br>No<br>110 |

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| В | uil | d | r |  |
|---|-----|---|---|--|
|   |     |   |   |  |

| Clothes Dryer                |                |  |
|------------------------------|----------------|--|
| Cef                          | 3.01           |  |
| Fuel Type                    | Electric       |  |
| Field Utilization            | Timer Controls |  |
| Is Outside Conditioned Space | No             |  |
| Clothes Dryer Available      | Yes            |  |
| Defaults Type                | HERS Reference |  |

| Clothes Washer               |              |
|------------------------------|--------------|
| Label Energy Rating          | 153 kWh/Year |
| Annual Gas Cost              | \$12.00      |
| Electric Rate                | \$0.11/kWh   |
| Gas Rate                     | \$1.22/Therm |
| Capacity                     | 3.31         |
| Imef                         | 2.1547       |
| Defaults Type                | Custom       |
| Load Type                    | Front-load   |
| Loads Per Week               | 6            |
| Is Outside Conditioned Space | No           |
| Clothes Washer Available     | Yes          |
|                              |              |

| Dishwasher                   |              |
|------------------------------|--------------|
| Dishwasher Efficiency        | 270 kWh      |
| Dishwasher Size              | Standard     |
| Annual Gas Cost              | \$22.23      |
| Electric Rate                | \$0.12/kWh   |
| Gas Rate                     | \$1.09/Therm |
| Is Outside Conditioned Space | No           |

| Appliances and Controls                 |              |
|---|--------------|
| Programmable thermostat?                | Yes          |
| Range/Oven Fuel                         | Electric     |
| Convection Oven?                        | No           |
| Induction Range?                        | No           |
| Range/Oven Outside Conditioned Space?   | No           |
| Refrigerator Consumption                | 538 kWh/Year |
| Refrigerator Outside Conditioned Space? | No           |
|   |              |

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#### **Notes**

Initial inputs by \_\_JS 03/11/22\_\_\_

-confirm insulation specs -confirm window specs -confirm cfl lighting percentage -ventilation modeled as air none