

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Rodney Wade- Nelson  
 Street: Rodney Wade- Nelson  
 City, State, Zip: Fort White, FL,  
 Owner: Rodney Wade- Nelson  
 Design Location: FL, Gainesville

Builder Name: Spann's Heating and Air INC.  
 Permit Office:  
 Permit Number:  
 Jurisdiction:  
 County: Columbia (Florida Climate Zone 2)

|                                                          |                                    |
|----------------------------------------------------------|------------------------------------|
| 1. New construction or existing                          | New (From Plans)                   |
| 2. Single family or multiple family                      | Detached                           |
| 3. Number of units, if multiple family                   | 1                                  |
| 4. Number of Bedrooms                                    | 4                                  |
| 5. Is this a worst case?                                 | No                                 |
| 6. Conditioned floor area above grade (ft <sup>2</sup> ) | 2163                               |
| Conditioned floor area below grade (ft <sup>2</sup> )    | 0                                  |
| 7. Windows (228.0 sqft.)                                 | Description Area                   |
| a. U-Factor:                                             | Dbl, U=0.40 150.00 ft <sup>2</sup> |
| SHGC:                                                    | SHGC=0.20                          |
| b. U-Factor:                                             | Dbl, default 48.00 ft <sup>2</sup> |
| SHGC:                                                    | Clear, default                     |
| c. U-Factor:                                             | Dbl, default 30.00 ft <sup>2</sup> |
| SHGC:                                                    | Clear, default                     |
| Area Weighted Average Overhang Depth:                    | 0.000 ft.                          |
| Area Weighted Average SHGC:                              | 0.342                              |
| 8. Skylights                                             | Area                               |
| c. U-Factor:(AVG)                                        | N/A ft <sup>2</sup>                |
| SHGC(AVG):                                               | N/A                                |
| 9. Floor Types (2158.4 sqft.)                            | Insulation Area                    |
| a. Slab-On-Grade Edge Insulation                         | R=0.0 2158.40 ft <sup>2</sup>      |
| b. N/A                                                   | R= ft <sup>2</sup>                 |
| c. N/A                                                   | R= ft <sup>2</sup>                 |

|                                           |                                |
|-------------------------------------------|--------------------------------|
| 10. Wall Types (2164.5 sqft.)             | Insulation Area                |
| a. Frame - Wood, Exterior                 | R=13.0 2164.50 ft <sup>2</sup> |
| b. N/A                                    | R= ft <sup>2</sup>             |
| c. N/A                                    | R= ft <sup>2</sup>             |
| d. N/A                                    | R= ft <sup>2</sup>             |
| 11. Ceiling Types (2163.0 sqft.)          | Insulation Area                |
| a. Under Attic (Vented)                   | R=38.0 2163.00 ft <sup>2</sup> |
| b. N/A                                    | R= ft <sup>2</sup>             |
| c. N/A                                    | R= ft <sup>2</sup>             |
| 12. Ducts                                 | R ft <sup>2</sup>              |
| a. Sup: Attic, Ret: Attic, AH: Great Room | 6 120                          |
| 13. Cooling systems                       | kBtu/hr Efficiency             |
| a. Central Unit                           | 60.0 SEER:14.00                |
| 14. Heating systems                       | kBtu/hr Efficiency             |
| a. Electric Heat Pump                     | 57.0 HSPF:8.20                 |
| 15. Hot water systems                     |                                |
| a. Propane Tankless                       | Cap: 1 gallons                 |
|                                           | EF: 0.590                      |
| b. Conservation features                  |                                |
| None                                      |                                |
| 16. Credits                               | None                           |

Glass/Floor Area: 0.105

Total Proposed Modified Loads: 51.58

Total Baseline Loads: 59.14

**PASS**

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: [Signature]  
 DATE: 3-29-2021

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: [Signature]  
 DATE: 03/29/21

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.



BUILDING OFFICIAL: \_\_\_\_\_  
 DATE: \_\_\_\_\_

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).
- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.020 Qn for whole house.



## INPUT SUMMARY CHECKLIST REPORT

## PROJECT

|                |                              |                    |      |                    |                      |
|----------------|------------------------------|--------------------|------|--------------------|----------------------|
| Title:         | Rodney Wade- Nelson          | Bedrooms:          | 4    | Address Type:      | Street Address       |
| Building Type: | User                         | Conditioned Area:  | 2163 | Lot #              |                      |
| Owner Name:    | Rodney Wade- Nelson          | Total Stories:     | 1    | Block/Subdivision: |                      |
| # of Units:    | 1                            | Worst Case:        | No   | PlatBook:          |                      |
| Builder Name:  | Spann's Heating and Air INC. | Rotate Angle:      | 0    | Street:            | Rodney Wade- Nelson  |
| Permit Office: |                              | Cross Ventilation: | No   | County:            | Columbia             |
| Jurisdiction:  |                              | Whole House Fan:   | No   | City, State, Zip:  | Fort White ,<br>FL , |
| Family Type:   | Detached                     |                    |      |                    |                      |
| New/Existing:  | New (From Plans)             |                    |      |                    |                      |
| Comment:       |                              |                    |      |                    |                      |

## CLIMATE

| ✓     | Design Location | TMY Site            | Design Temp |       | Int Design Temp |        | Heating     | Design   | Daily Temp |
|-------|-----------------|---------------------|-------------|-------|-----------------|--------|-------------|----------|------------|
|       |                 |                     | 97.5 %      | 2.5 % | Winter          | Summer | Degree Days | Moisture | Range      |
| _____ | FL, Gainesville | FL_GAINESVILLE_REGI | 32          | 92    | 70              | 75     | 1305.5      | 51       | Medium     |

## BLOCKS

| Number | Name         | Area | Volume |
|--------|--------------|------|--------|
| 1      | Entire House | 2163 | 21813  |

## SPACES

| Number | Name           | Area | Volume | Kitchen | Occupants | Bedrooms | Infil ID | Finished | Cooled | Heated |
|--------|----------------|------|--------|---------|-----------|----------|----------|----------|--------|--------|
| 1      | Bedroom 2      | 150  | 1350   | No      | 2         | 1        | 1        | No       | Yes    | Yes    |
| 2      | Bath 2         | 72   | 644    | No      | 0         |          | 1        | No       | Yes    | Yes    |
| 3      | Pantry         | 34   | 304    | No      | 0         |          | 1        | No       | Yes    | Yes    |
| 4      | Bedroom 3      | 149  | 1341   | No      | 2         | 1        | 1        | No       | Yes    | Yes    |
| 5      | Bath 3         | 58   | 522    | No      | 0         |          | 1        | No       | Yes    | Yes    |
| 6      | Bedroom 4      | 149  | 1341   | No      | 2         | 1        | 1        | No       | Yes    | Yes    |
| 7      | Den            | 158  | 1422   | No      | 0         |          | 1        | No       | Yes    | Yes    |
| 8      | Kitchen        | 197  | 2364   | No      | 0         |          | 1        | No       | Yes    | Yes    |
| 9      | Dining         | 213  | 2556   | No      | 0         |          | 1        | No       | Yes    | Yes    |
| 10     | Great Room     | 372  | 4464   | No      | 0         |          | 1        | No       | Yes    | Yes    |
| 11     | Master Bedroom | 233  | 2097   | No      | 2         | 1        | 1        | No       | Yes    | Yes    |
| 12     | Master Bath    | 144  | 1296   | No      | 0         |          | 1        | No       | Yes    | Yes    |
| 13     | Laundry        | 140  | 1256   | No      | 0         |          | 1        | No       | Yes    | Yes    |
| 14     | Closet         | 75   | 675    | No      | 0         |          | 1        | No       | Yes    | Yes    |
| 15     | Toilet         | 19   | 173    | No      | 0         |          | 1        | No       | Yes    | Yes    |

## FLOORS

| ✓     | # | Floor Type                   | Space     | Perimeter | Perimeter R-Value | Area      | Joist R-Value | Tile | Wood | Carpet |
|-------|---|------------------------------|-----------|-----------|-------------------|-----------|---------------|------|------|--------|
| _____ | 1 | Slab-On-Grade Edge Insulatio | Bedroom 2 | 24.5 ft   | 0                 | 149.5 ft² | ----          | 0    | 1    | 0      |
| _____ | 2 | Slab-On-Grade Edge Insulatio | Bath 2    | 18.5 ft   | 0                 | 71.5 ft²  | ----          | 0    | 1    | 0      |
| _____ | 3 | Slab-On-Grade Edge Insulatio | Pantry    | 4.5 ft    | 0                 | 33.8 ft²  | ----          | 0    | 1    | 0      |

## INPUT SUMMARY CHECKLIST REPORT

## FLOORS

| ✓     | #  | Floor Type                   | Space          | Perimeter | Perimeter R-Value | Area      | Joist R-Value | Tile | Wood | Carpet |
|-------|----|------------------------------|----------------|-----------|-------------------|-----------|---------------|------|------|--------|
| _____ | 4  | Slab-On-Grade Edge Insulatio | Bedroom 3      | 11 ft     | 0                 | 148.5 ft² | ----          | 0    | 1    | 0      |
| _____ | 5  | Slab-On-Grade Edge Insulatio | Bath 3         | 5.5 ft    | 0                 | 57.8 ft²  | ----          | 0    | 1    | 0      |
| _____ | 6  | Slab-On-Grade Edge Insulatio | Bedroom 4      | 11 ft     | 0                 | 148.5 ft² | ----          | 0    | 1    | 0      |
| _____ | 7  | Slab-On-Grade Edge Insulatio | Den            | 35.5 ft   | 0                 | 157.5 ft² | ----          | 0    | 1    | 0      |
| _____ | 8  | Slab-On-Grade Edge Insulatio | Kitchen        | 6.5 ft    | 0                 | 197 ft²   | ----          | 0    | 1    | 0      |
| _____ | 9  | Slab-On-Grade Edge Insulatio | Dining         | 12.5 ft   | 0                 | 212.5 ft² | ----          | 0    | 1    | 0      |
| _____ | 10 | Slab-On-Grade Edge Insulatio | Great Room     | 18.5 ft   | 0                 | 372 ft²   | ----          | 0    | 1    | 0      |
| _____ | 11 | Slab-On-Grade Edge Insulatio | Master Bedroom | 30.5 ft   | 0                 | 232.5 ft² | ----          | 0    | 1    | 0      |
| _____ | 12 | Slab-On-Grade Edge Insulatio | Master Bath    | 10.5 ft   | 0                 | 143.5 ft² | ----          | 0    | 1    | 0      |
| _____ | 13 | Slab-On-Grade Edge Insulatio | Laundry        | 33 ft     | 0                 | 139.5 ft² | ----          | 0    | 1    | 0      |
| _____ | 14 | Slab-On-Grade Edge Insulatio | Closet         | 6 ft      | 0                 | 75 ft²    | ----          | 0    | 1    | 0      |
| _____ | 15 | Slab-On-Grade Edge Insulatio | Toilet         | 1 ft      | 0                 | 19.3 ft²  | ----          | 0    | 1    | 0      |

## ROOF

| ✓     | # | Type          | Materials | Roof Area | Gable Area | Roof Color | Rad Barr | Solar Absor. | SA Tested | Emitt | Emitt Tested | Deck Insul. | Pitch (deg) |
|-------|---|---------------|-----------|-----------|------------|------------|----------|--------------|-----------|-------|--------------|-------------|-------------|
| _____ | 1 | Gable or Shed | Metal     | 2275 ft²  | 360 ft²    | Unfinishe  | N        | 0.35         | No        | 0.4   | No           | 0           | 18.43       |

## ATTIC

| ✓     | # | Type       | Ventilation | Vent Ratio (1 in) | Area     | RBS | IRCC |
|-------|---|------------|-------------|-------------------|----------|-----|------|
| _____ | 1 | Full attic | Vented      | 300               | 2158 ft² | N   | N    |

## CEILING

| ✓     | #  | Ceiling Type         | Space          | R-Value | Ins Type | Area    | Framing Frac | Truss Type |
|-------|----|----------------------|----------------|---------|----------|---------|--------------|------------|
| _____ | 1  | Under Attic (Vented) | Bedroom 2      | 38      | Blown    | 150 ft² | 0.1          | Wood       |
| _____ | 2  | Under Attic (Vented) | Bath 2         | 38      | Blown    | 72 ft²  | 0.1          | Wood       |
| _____ | 3  | Under Attic (Vented) | Pantry         | 38      | Blown    | 34 ft²  | 0.1          | Wood       |
| _____ | 4  | Under Attic (Vented) | Bedroom 3      | 38      | Blown    | 149 ft² | 0.1          | Wood       |
| _____ | 5  | Under Attic (Vented) | Bath 3         | 38      | Blown    | 58 ft²  | 0.1          | Wood       |
| _____ | 6  | Under Attic (Vented) | Bedroom 4      | 38      | Blown    | 149 ft² | 0.1          | Wood       |
| _____ | 7  | Under Attic (Vented) | Den            | 38      | Blown    | 158 ft² | 0.1          | Wood       |
| _____ | 8  | Under Attic (Vented) | Kitchen        | 38      | Blown    | 197 ft² | 0.1          | Wood       |
| _____ | 9  | Under Attic (Vented) | Dining         | 38      | Blown    | 213 ft² | 0.1          | Wood       |
| _____ | 10 | Under Attic (Vented) | Great Room     | 38      | Blown    | 372 ft² | 0.1          | Wood       |
| _____ | 11 | Under Attic (Vented) | Master Bedroom | 38      | Blown    | 233 ft² | 0.1          | Wood       |
| _____ | 12 | Under Attic (Vented) | Master Bath    | 38      | Blown    | 144 ft² | 0.1          | Wood       |
| _____ | 13 | Under Attic (Vented) | Laundry        | 38      | Blown    | 140 ft² | 0.1          | Wood       |
| _____ | 14 | Under Attic (Vented) | Closet         | 38      | Blown    | 75 ft²  | 0.1          | Wood       |
| _____ | 15 | Under Attic (Vented) | Toilet         | 38      | Blown    | 19 ft²  | 0.1          | Wood       |

## INPUT SUMMARY CHECKLIST REPORT

## WALLS

| ✓   | #  | Ornt | Adjacent To | Wall Type    | Space        | Cavity R-Value | Width Ft | In | Height Ft | In | Area      | Sheathing R-Value | Framing Fraction | Solar Absor | Below Grade% |
|-----|----|------|-------------|--------------|--------------|----------------|----------|----|-----------|----|-----------|-------------------|------------------|-------------|--------------|
| ___ | 1  | N    | Exterior    | Frame - Wood | Bedroom 2    | 13             | 11       | 6  | 9         | 0  | 103.5 ft² | 0                 | 0.25             | 0.8         | 0            |
| ___ | 2  | W    | Exterior    | Frame - Wood | Bedroom 2    | 13             | 13       | 0  | 9         | 0  | 117.0 ft² | 0                 | 0.25             | 0.8         | 0            |
| ___ | 3  | N    | Exterior    | Frame - Wood | Bath 2       | 13             | 5        | 6  | 9         | 0  | 49.5 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 4  | E    | Exterior    | Frame - Wood | Bath 2       | 13             | 13       | 0  | 9         | 0  | 117.0 ft² | 0                 | 0.25             | 0.8         | 0            |
| ___ | 5  | W    | Exterior    | Frame - Wood | Pantry       | 13             | 4        | 6  | 9         | 0  | 40.5 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 6  | W    | Exterior    | Frame - Wood | Bedroom 3    | 13             | 11       | 0  | 9         | 0  | 99.0 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 7  | W    | Exterior    | Frame - Wood | Bath 3       | 13             | 5        | 6  | 9         | 0  | 49.5 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 8  | W    | Exterior    | Frame - Wood | Bedroom 4    | 13             | 11       | 0  | 9         | 0  | 99.0 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 9  | E    | Exterior    | Frame - Wood | Den          | 13             | 9        | 0  | 9         | 0  | 81.0 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 10 | S    | Exterior    | Frame - Wood | Den          | 13             | 17       | 6  | 9         | 0  | 157.5 ft² | 0                 | 0.25             | 0.8         | 0            |
| ___ | 11 | W    | Exterior    | Frame - Wood | Den          | 13             | 9        | 0  | 9         | 0  | 81.0 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 12 | N    | Exterior    | Frame - Wood | Kitchen      | 13             | 6        | 6  | 12        | 0  | 78.0 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 13 | N    | Exterior    | Frame - Wood | Dining       | 13             | 12       | 6  | 12        | 0  | 150.0 ft² | 0                 | 0.25             | 0.8         | 0            |
| ___ | 14 | S    | Exterior    | Frame - Wood | Great Room   | 13             | 18       | 6  | 12        | 0  | 222.0 ft² | 0                 | 0.25             | 0.8         | 0            |
| ___ | 15 | N    | Exterior    | Frame - Wood | Master Bedro | 13             | 15       | 6  | 9         | 0  | 139.5 ft² | 0                 | 0.25             | 0.8         | 0            |
| ___ | 16 | E    | Exterior    | Frame - Wood | Master Bedro | 13             | 15       | 0  | 9         | 0  | 135.0 ft² | 0                 | 0.25             | 0.8         | 0            |
| ___ | 17 | E    | Exterior    | Frame - Wood | Master Bath  | 13             | 10       | 6  | 9         | 0  | 94.5 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 18 | E    | Exterior    | Frame - Wood | Laundry      | 13             | 9        | 0  | 9         | 0  | 81.0 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 19 | S    | Exterior    | Frame - Wood | Laundry      | 13             | 15       | 6  | 9         | 0  | 139.5 ft² | 0                 | 0.25             | 0.8         | 0            |
| ___ | 20 | W    | Exterior    | Frame - Wood | Laundry      | 13             | 8        | 6  | 9         | 0  | 76.5 ft²  | 0                 | 0.25             | 0.8         | 0            |
| ___ | 21 | E    | Exterior    | Frame - Wood | Closet       | 13             | 6        | 0  | 9         | 0  | 54.0 ft²  | 0                 | 0.25             | 0.8         | 0            |

## DOORS

| ✓   | # | Ornt | Door Type | Space        | Storms | U-Value | Width Ft | In | Height Ft | In | Area   |
|-----|---|------|-----------|--------------|--------|---------|----------|----|-----------|----|--------|
| ___ | 1 | E    | Insulated | Bath 2       | None   | .4      | 3        |    | 7         |    | 21 ft² |
| ___ | 2 | N    | Insulated | Dining       | None   | .4      | 6        |    | 7         |    | 42 ft² |
| ___ | 3 | S    | Insulated | Great Room   | None   | .4      | 3        |    | 7         |    | 21 ft² |
| ___ | 4 | N    | Insulated | Master Bedro | None   | .4      | 6        |    | 7         |    | 42 ft² |

## WINDOWS

Orientation shown is the entered, Proposed orientation.

| ✓   | #  | Ornt | Wall ID | Frame | Panes          | NFRC | U-Factor | SHGC | Imp | Area     | Overhang Depth | Separation | Int Shade | Screening |
|-----|----|------|---------|-------|----------------|------|----------|------|-----|----------|----------------|------------|-----------|-----------|
| ___ | 1  | N    | 1       | Vinyl | Double (Clear) | Yes  | 0.4      | 0.2  | N   | 15.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |
| ___ | 2  | W    | 2       | Vinyl | Double (Clear) | Yes  | 0.4      | 0.2  | N   | 15.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |
| ___ | 3  | W    | 6       | Vinyl | Double (Clear) | Yes  | 0.4      | 0.2  | N   | 15.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |
| ___ | 4  | W    | 8       | Vinyl | Double (Clear) | Yes  | 0.4      | 0.2  | N   | 15.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |
| ___ | 5  | S    | 10      | Vinyl | Double (Clear) | Yes  | 0.4      | 0.2  | N   | 30.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |
| ___ | 6  | N    | 12      | Vinyl | Double (Clear) | Yes  | 0.4      | 0.2  | N   | 15.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |
| ___ | 7  | N    | 13      | Vinyl | Double (Clear) | Yes  | 0.4      | 0.2  | N   | 15.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |
| ___ | 8  | S    | 14      | Vinyl | Double (Clear) | Yes  | 0.4      | 0.2  | N   | 30.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |
| ___ | 9  | E    | 16      | Vinyl | Double (Clear) | No   | 0.55     | 0.7  | N   | 30.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |
| ___ | 10 | E    | 17      | Vinyl | Double (Clear) | No   | 0.57     | 0.56 | N   | 18.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |

## INPUT SUMMARY CHECKLIST REPORT

## WINDOWS

Orientation shown is the entered, Proposed orientation.

| ✓ | #  | Ornt | Wall ID | Frame | Panes          | NFRC | U-Factor | SHGC | Imp | Area     | Overhang Depth | Separation | Int Shade | Screening |
|---|----|------|---------|-------|----------------|------|----------|------|-----|----------|----------------|------------|-----------|-----------|
| ✓ | 11 | S    | 19      | Vinyl | Double (Clear) | No   | 0.57     | 0.56 | N   | 30.0 ft² | 0 ft 0 in      | 0 ft 0 in  | None      | None      |

## INFILTRATION

| # | Scope      | Method           | SLA     | CFM 50 | ELA    | EqLA   | ACH   | ACH 50 |
|---|------------|------------------|---------|--------|--------|--------|-------|--------|
| 1 | Wholehouse | Proposed ACH(50) | .000448 | 2543.9 | 139.57 | 262.02 | .1505 | 7      |

## HEATING SYSTEM

| ✓ | # | System Type         | Subtype | Speed | Efficiency | Capacity   | Block | Ducts |
|---|---|---------------------|---------|-------|------------|------------|-------|-------|
| ✓ | 1 | Electric Heat Pump/ | Split   | Singl | HSPF:8.2   | 57 kBtu/hr | 1     | sys#1 |

## COOLING SYSTEM

| ✓ | # | System Type   | Subtype | Subtype | Efficiency | Capacity   | Air Flow | SHR | Block | Ducts |
|---|---|---------------|---------|---------|------------|------------|----------|-----|-------|-------|
| ✓ | 1 | Central Unit/ | Split   | Singl   | SEER: 14   | 60 kBtu/hr | 1800 cfm | 0.7 | 1     | sys#1 |

## HOT WATER SYSTEM

| ✓ | # | System Type | SubType  | Location | EF   | Cap   | Use    | SetPnt  | Conservation |
|---|---|-------------|----------|----------|------|-------|--------|---------|--------------|
| ✓ | 1 | Propane     | Tankless | Exterior | 0.59 | 1 gal | 70 gal | 120 deg | None         |

## SOLAR HOT WATER SYSTEM

| ✓ | FSEC Cert # | Company Name | System Model # | Collector Model # | Collector Area | Storage Volume | FEF |
|---|-------------|--------------|----------------|-------------------|----------------|----------------|-----|
| ✓ | None        | None         |                |                   | ft²            |                |     |

## DUCTS

| ✓ | # | --- Supply --- Location | R-Value | Area    | --- Return --- Location | Area    | Leakage Type | Air Handler | CFM 25 TOT | CFM25 OUT | QN   | RLF  | HVAC # Heat | Cool |
|---|---|-------------------------|---------|---------|-------------------------|---------|--------------|-------------|------------|-----------|------|------|-------------|------|
| ✓ | 1 | Attic                   | 6       | 120 ft² | Attic                   | 120 ft² | Proposed Qn  | Great Roo   | --- cfm    | 43.3 cfm  | 0.02 | 0.50 | 1           | 1    |

## INPUT SUMMARY CHECKLIST REPORT

## TEMPERATURES

Programmable Thermostat: N

Ceiling Fans:

|         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |
|---------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| Cooling | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec |
| Heating | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec |
| Venting | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec |

Thermostat Schedule: HERS 2006 Reference

Hours

| Schedule Type |    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Cooling (WD)  | AM | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 80 | 80 | 80 | 80 |
|               | PM | 80 | 80 | 80 | 80 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| Cooling (WEH) | AM | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 80 | 80 | 80 | 80 |
|               | PM | 80 | 80 | 80 | 80 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heating (WD)  | AM | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 68 | 68 | 68 | 68 | 68 |
|               | PM | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| Heating (WEH) | AM | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 68 | 68 | 68 | 68 | 68 |
|               | PM | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 |

## MASS

| Mass Type            | Area              | Thickness | Furniture Fraction | Space          |
|----------------------|-------------------|-----------|--------------------|----------------|
| Default(8 lbs/sq.ft. | 0 ft <sup>2</sup> | 0 ft      | 0.3                | Bedroom 2      |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Bath 2         |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Pantry         |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Bedroom 3      |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Bath 3         |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Bedroom 4      |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Den            |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Kitchen        |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Dining         |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Great Room     |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Master Bedroom |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Master Bath    |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Laundry        |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Closet         |
| Default(8 lbs/sq.ft. | ft <sup>2</sup>   | ft        | 0.3                | Toilet         |



# Load Short Form Entire House Spann's Heating and Air INC.

Job: Rodney Wade- Nelson  
Date: Mar 29, 2021  
By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

## Project Information

For: Rodney Wade- Nelson

## Design Information

|                             | Htg | Clg | Infiltration         |            |
|-----------------------------|-----|-----|----------------------|------------|
| Outside db (°F)             | 33  | 92  | Method               | Simplified |
| Inside db (°F)              | 70  | 75  | Construction quality | Average    |
| Design TD (°F)              | 37  | 17  | Fireplaces           | 0          |
| Daily range                 | -   | M   |                      |            |
| Inside humidity (%)         | 65  | 85  |                      |            |
| Moisture difference (gr/lb) | 49  | 0   |                      |            |

### HEATING EQUIPMENT

Make Comfortmaker  
Trade 14 SEER N SERIES R410A HP  
Model N4H460GKG10  
AHRI ref 9658602  
Efficiency 8.2 HSPF  
Heating input  
Heating output 54500 Btuh @ 47°F  
Temperature rise 26 °F  
Actual air flow 1900 cfm  
Air flow factor 0.048 cfm/Btuh  
Static pressure 0.70 in H2O  
Space thermostat  
Capacity balance point = 26 °F

Backup: n/a n/a

Input = 11 kW. Output = 36281 Btuh, 100 AFUE

### COOLING EQUIPMENT

Make Comfortmaker  
Trade 14 SEER N SERIES R410A HP  
Cond N4H460GKG10  
Coil FXM4X6000AL  
AHRI ref 9658602  
Efficiency 11.5 EER, 14 SEER  
Sensible cooling 39900 Btuh  
Latent cooling 17100 Btuh  
Total cooling 57000 Btuh  
Actual air flow 1900 cfm  
Air flow factor 0.049 cfm/Btuh  
Static pressure 0.70 in H2O  
Load sensible heat ratio 0.88

| ROOM NAME      | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|----------------|------------|-----------------|-----------------|---------------|---------------|
| Bedroom 2      | 150        | 3754            | 4037            | 181           | 198           |
| Bath 2         | 72         | 2883            | 1284            | 139           | 63            |
| Pantry         | 34         | 589             | 230             | 28            | 11            |
| Bedroom 3      | 149        | 1825            | 3306            | 88            | 162           |
| Bath 3         | 58         | 742             | 314             | 36            | 15            |
| Bedroom 4      | 149        | 1825            | 3306            | 88            | 162           |
| Den            | 158        | 5093            | 3897            | 246           | 191           |
| Kitchen        | 197        | 1498            | 2812            | 72            | 138           |
| Dining         | 213        | 3488            | 2316            | 168           | 114           |
| Great Room     | 372        | 4311            | 4417            | 208           | 217           |
| Master Bedroom | 233        | 5696            | 5996            | 275           | 295           |
| Master Bath    | 144        | 2055            | 3175            | 99            | 156           |
| Laundry        | 140        | 4767            | 3182            | 230           | 156           |
| Closet         | 75         | 825             | 367             | 40            | 18            |

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



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| Toilet            | 19   | 26    | 39    | 1    | 2    |
|-------------------|------|-------|-------|------|------|
| Entire House      | 2158 | 39378 | 38679 | 1900 | 1900 |
| Other equip loads |      | 0     | 0     |      |      |
| Equip. @ 0.97 RSM |      |       | 37480 |      |      |
| Latent cooling    |      |       | 5170  |      |      |
| TOTALS            | 2158 | 39378 | 42650 | 1900 | 1900 |

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



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**Project Summary**  
**Entire House**  
**Spann's Heating and Air INC.**

Job: Rodney Wade- Nelson  
Date: Mar 29, 2021  
By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

## Project Information

For: Rodney Wade- Nelson

Notes:

## Design Information

Weather: Gainesville Rgnl, FL, US

### Winter Design Conditions

|            |       |
|------------|-------|
| Outside db | 33 °F |
| Inside db  | 70 °F |
| Design TD  | 37 °F |

### Summer Design Conditions

|                     |         |
|---------------------|---------|
| Outside db          | 92 °F   |
| Inside db           | 75 °F   |
| Design TD           | 17 °F   |
| Daily range         | M       |
| Relative humidity   | 85 %    |
| Moisture difference | 0 gr/lb |

### Heating Summary

|                                |            |
|--------------------------------|------------|
| Structure                      | 27876 Btuh |
| Ducts                          | 11502 Btuh |
| Central vent (0 cfm)<br>(none) | 0 Btuh     |
| Humidification                 | 0 Btuh     |
| Piping                         | 0 Btuh     |
| Equipment load                 | 39378 Btuh |

### Infiltration

|                      |            |
|----------------------|------------|
| Method               | Simplified |
| Construction quality | Average    |
| Fireplaces           | 0          |

|                           | Heating | Cooling |
|---------------------------|---------|---------|
| Area (ft <sup>2</sup> )   | 2158    | 2158    |
| Volume (ft <sup>3</sup> ) | 21769   | 21769   |
| Air changes/hour          | 0.32    | 0.16    |
| Equiv. AVF (cfm)          | 116     | 58      |

### Heating Equipment Summary

|                                              |                           |
|----------------------------------------------|---------------------------|
| Make                                         | Comfortmaker              |
| Trade                                        | 14 SEER N SERIES R410A HP |
| Model                                        | N4H460GKG10               |
| AHRI ref                                     | 9658602                   |
| Efficiency                                   | 8.2 HSPF                  |
| Heating input                                | 54500 Btuh @ 47°F         |
| Temperature rise                             | 26 °F                     |
| Actual air flow                              | 1900 cfm                  |
| Air flow factor                              | 0.048 cfm/Btuh            |
| Static pressure                              | 0.70 in H2O               |
| Space thermostat                             |                           |
| Capacity balance point = 26 °F               |                           |
| Backup: n/a n/a                              |                           |
| Input = 11 kW, Output = 36281 Btuh, 100 AFUE |                           |

### Sensible Cooling Equipment Load Sizing

|                                |            |
|--------------------------------|------------|
| Structure                      | 24378 Btuh |
| Ducts                          | 14300 Btuh |
| Central vent (0 cfm)<br>(none) | 0 Btuh     |
| Blower                         | 0 Btuh     |
| Use manufacturer's data        | n          |
| Rate/swing multiplier          | 0.97       |
| Equipment sensible load        | 37480 Btuh |

### Latent Cooling Equipment Load Sizing

|                                |           |
|--------------------------------|-----------|
| Structure                      | 1600 Btuh |
| Ducts                          | 3570 Btuh |
| Central vent (0 cfm)<br>(none) | 0 Btuh    |
| Equipment latent load          | 5170 Btuh |

|                                 |            |
|---------------------------------|------------|
| Equipment Total Load (Sen+Lat)  | 42650 Btuh |
| Req. total capacity at 0.70 SHR | 4.5 ton    |

### Cooling Equipment Summary

|                          |                           |
|--------------------------|---------------------------|
| Make                     | Comfortmaker              |
| Trade                    | 14 SEER N SERIES R410A HP |
| Cond                     | N4H460GKG10               |
| Coil                     | FXM4X6000AL               |
| AHRI ref                 | 9658602                   |
| Efficiency               | 11.5 EER, 14 SEER         |
| Sensible cooling         | 39900 Btuh                |
| Latent cooling           | 17100 Btuh                |
| Total cooling            | 57000 Btuh                |
| Actual air flow          | 1900 cfm                  |
| Air flow factor          | 0.049 cfm/Btuh            |
| Static pressure          | 0.70 in H2O               |
| Load sensible heat ratio | 0.88                      |

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



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# Right-J® Worksheet

## Entire House

### Spann's Heating and Air INC.

Job: Rodney Wade- Nelson

Date: Mar 29, 2021

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

|         |                                                  |                     |                       |       |                |              |                              |       |             |       |                              |       |             |      |  |
|---------|--------------------------------------------------|---------------------|-----------------------|-------|----------------|--------------|------------------------------|-------|-------------|-------|------------------------------|-------|-------------|------|--|
| 1       | Room name                                        |                     |                       |       |                | Entire House |                              |       |             |       | Bedroom 2                    |       |             |      |  |
| 2       | Exposed wall                                     |                     |                       |       |                | 228.0 ft     |                              |       |             |       | 24.5 ft                      |       |             |      |  |
| 3       | Room height                                      |                     |                       |       |                | 10.1 ft      |                              |       |             |       | 9.0 ft                       |       |             |      |  |
| 4       | Room dimensions                                  |                     |                       |       |                | d            |                              |       |             |       | 11.5 x 13.0 ft               |       |             |      |  |
| 5       | Room area                                        |                     |                       |       |                | 2158.3 ft²   |                              |       |             |       | 149.5 ft²                    |       |             |      |  |
|         | Ty                                               | Construction number | U-value (Btuh/ft²·°F) | Or    | HTM (Btuh/ft²) |              | Area (ft²) or perimeter (ft) |       | Load (Btuh) |       | Area (ft²) or perimeter (ft) |       | Load (Btuh) |      |  |
|         |                                                  |                     |                       |       | Heat           | Cool         | Gross                        | N/P/S | Heat        | Cool  | Gross                        | N/P/S | Heat        | Cool |  |
| 6       | W                                                | 12C-0sw             | 0.091                 | n     | 3.33           | 2.22         | 521                          | 401   | 1334        | 887   | 104                          | 92    | 305         | 203  |  |
| 11      | G                                                | 1D-c2ov             | 0.570                 | n     | 20.86          | 21.29        | 36                           | 0     | 751         | 766   | 12                           | 0     | 250         | 255  |  |
|         |                                                  | 11J0                | 0.600                 | n     | 21.96          | 17.61        | 84                           | 84    | 1845        | 1479  | 0                            | 0     | 0           | 0    |  |
|         | W                                                | 12C-0sw             | 0.091                 | e     | 3.33           | 2.22         | 563                          | 494   | 1644        | 1094  | 0                            | 0     | 0           | 0    |  |
|         |                                                  | 1D-c2ov             | 0.570                 | e     | 20.86          | 63.38        | 48                           | 0     | 1001        | 3042  | 0                            | 0     | 0           | 0    |  |
|         | G                                                | 11J0                | 0.600                 | e     | 21.96          | 17.61        | 21                           | 21    | 461         | 370   | 0                            | 0     | 0           | 0    |  |
|         |                                                  | 12C-0sw             | 0.091                 | s     | 3.33           | 2.22         | 519                          | 426   | 1419        | 944   | 0                            | 0     | 0           | 0    |  |
|         | D                                                | 1D-c2ov             | 0.570                 | s     | 20.86          | 25.00        | 72                           | 0     | 1502        | 1800  | 0                            | 0     | 0           | 0    |  |
|         |                                                  | 11J0                | 0.600                 | s     | 21.96          | 17.61        | 21                           | 21    | 461         | 370   | 0                            | 0     | 0           | 0    |  |
|         | W                                                | 12C-0sw             | 0.091                 | w     | 3.33           | 2.22         | 563                          | 527   | 1754        | 1167  | 117                          | 105   | 350         | 233  |  |
|         |                                                  | 1D-c2ov             | 0.570                 | w     | 20.86          | 63.38        | 36                           | 0     | 751         | 2282  | 12                           | 0     | 250         | 761  |  |
|         | C                                                | 16B-38md            | 0.026                 | -     | 0.95           | 1.37         | 2158                         | 2158  | 2054        | 2966  | 150                          | 150   | 142         | 205  |  |
| 22A-tpi |                                                  | 0.989               | -                     | 36.20 | 0.00           | 2158         | 228                          | 8253  | 0           | 150   | 25                           | 887   | 0           |      |  |
| 6       | c) AED excursion                                 |                     |                       |       |                |              |                              |       |             | 0     |                              |       |             | 119  |  |
|         | Envelope loss/gain                               |                     |                       |       |                |              |                              |       | 23229       | 17166 |                              |       | 2184        | 1775 |  |
| 12      | a) Infiltration                                  |                     |                       |       |                |              |                              |       | 4647        | 1073  |                              |       | 473         | 109  |  |
|         | b) Room ventilation                              |                     |                       |       |                |              |                              |       | 0           | 0     |                              |       | 0           | 0    |  |
| 13      | Internal gains: Occupants @ 230 Appliances/other |                     |                       |       |                |              | 8                            |       |             | 1840  | 2                            |       |             | 460  |  |
|         |                                                  |                     |                       |       |                |              |                              |       |             | 4300  |                              |       |             | 200  |  |
|         | Subtotal (lines 6 to 13)                         |                     |                       |       |                |              |                              |       | 27876       | 24378 |                              |       | 2658        | 2545 |  |
| 14      | Less external load                               |                     |                       |       |                |              |                              |       | 0           | 0     |                              |       | 0           | 0    |  |
|         | Less transfer                                    |                     |                       |       |                |              |                              |       | 0           | 0     |                              |       | 0           | 0    |  |
|         | Redistribution                                   |                     |                       |       |                |              |                              |       | 0           | 0     |                              |       | 0           | 0    |  |
|         | Subtotal                                         |                     |                       |       |                |              |                              |       | 27876       | 24378 |                              |       | 2658        | 2545 |  |
| 15      | Duct loads                                       |                     |                       |       |                |              | 41%                          | 59%   | 11502       | 14300 | 41%                          | 59%   | 1097        | 1493 |  |
|         | Total room load                                  |                     |                       |       |                |              |                              |       | 39378       | 38679 |                              |       | 3754        | 4037 |  |
|         | Air required (cfm)                               |                     |                       |       |                |              |                              |       | 1900        | 1900  |                              |       | 181         | 198  |  |

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

# Right-J® Worksheet

## Entire House

Spann's Heating and Air INC.

Job: Rodney Wade- Nelson

Date: Mar 29, 2021

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

|    |                                                  |                     |                       |    |                |                                |                              |       |             |      |                               |       |             |      |   |
|----|--------------------------------------------------|---------------------|-----------------------|----|----------------|--------------------------------|------------------------------|-------|-------------|------|-------------------------------|-------|-------------|------|---|
| 1  | Room name                                        |                     |                       |    |                | Bath 2                         |                              |       |             |      | Pantry                        |       |             |      |   |
| 2  | Exposed wall                                     |                     |                       |    |                | 18.5 ft                        |                              |       |             |      | 4.5 ft                        |       |             |      |   |
| 3  | Room height                                      |                     |                       |    |                | 9.0 ft 5.5 x 13.0 ft heat/cool |                              |       |             |      | 9.0 ft 7.5 x 4.5 ft heat/cool |       |             |      |   |
| 4  | Room dimensions                                  |                     |                       |    |                | 71.5 ft²                       |                              |       |             |      | 33.8 ft²                      |       |             |      |   |
| 5  | Room area                                        |                     |                       |    |                |                                |                              |       |             |      |                               |       |             |      |   |
|    | Ty                                               | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) |                                | Area (ft²) or perimeter (ft) |       | Load (Btuh) |      | Area (ft²) or perimeter (ft)  |       | Load (Btuh) |      |   |
|    |                                                  |                     |                       |    | Heat           | Cool                           | Gross                        | N/P/S | Heat        | Cool | Gross                         | N/P/S | Heat        | Cool |   |
| 6  | W                                                | 12C-0sw             | 0.091                 | n  | 3.33           | 2.22                           | 50                           | 50    | 165         | 110  | 0                             | 0     | 0           | 0    |   |
| .  | G                                                | 1D-c2ov             | 0.570                 | n  | 20.86          | 21.29                          | 0                            | 0     | 0           | 0    | 0                             | 0     | 0           | 0    |   |
| .  | D                                                | 11J0                | 0.600                 | n  | 21.96          | 17.61                          | 0                            | 0     | 0           | 0    | 0                             | 0     | 0           | 0    |   |
| 11 | W                                                | 12C-0sw             | 0.091                 | e  | 3.33           | 2.22                           | 117                          | 96    | 320         | 213  | 0                             | 0     | 0           | 0    |   |
|    | G                                                | 1D-c2ov             | 0.570                 | e  | 20.86          | 63.38                          | 0                            | 0     | 0           | 0    | 0                             | 0     | 0           | 0    |   |
|    | D                                                | 11J0                | 0.600                 | e  | 21.96          | 17.61                          | 21                           | 21    | 461         | 370  | 0                             | 0     | 0           | 0    |   |
|    | W                                                | 12C-0sw             | 0.091                 | s  | 3.33           | 2.22                           | 0                            | 0     | 0           | 0    | 0                             | 0     | 0           | 0    |   |
|    | G                                                | 1D-c2ov             | 0.570                 | s  | 20.86          | 25.00                          | 0                            | 0     | 0           | 0    | 0                             | 0     | 0           | 0    |   |
|    | D                                                | 11J0                | 0.600                 | s  | 21.96          | 17.61                          | 0                            | 0     | 0           | 0    | 0                             | 0     | 0           | 0    |   |
|    | W                                                | 12C-0sw             | 0.091                 | w  | 3.33           | 2.22                           | 0                            | 0     | 0           | 0    | 41                            | 41    | 135         | 90   |   |
|    | G                                                | 1D-c2ov             | 0.570                 | w  | 20.86          | 63.38                          | 0                            | 0     | 0           | 0    | 0                             | 0     | 0           | 0    |   |
|    | C                                                | 16B-38md            | 0.026                 | -  | 0.95           | 1.37                           | 72                           | 72    | 68          | 98   | 34                            | 34    | 32          | 46   |   |
|    | F                                                | 22A-tpl             | 0.989                 | -  | 36.20          | 0.00                           | 72                           | 19    | 670         | 0    | 34                            | 5     | 163         | 0    |   |
| 6  | c) AED excursion                                 |                     |                       |    |                |                                |                              |       |             | -63  |                               |       |             | -11  |   |
|    | Envelope loss/gain                               |                     |                       |    |                |                                |                              |       | 1683        | 727  |                               |       | 330         | 125  |   |
| 12 | a) Infiltration                                  |                     |                       |    |                |                                |                              |       | 357         | 83   |                               |       | 87          | 20   |   |
|    | b) Room ventilation                              |                     |                       |    |                |                                |                              |       | 0           | 0    |                               |       | 0           | 0    |   |
| 13 | Internal gains: Occupants @ 230 Appliances/other |                     |                       |    |                |                                | 0                            |       |             | 0    | 0                             | 0     |             |      | 0 |
|    | Subtotal (lines 6 to 13)                         |                     |                       |    |                |                                |                              |       | 2041        | 810  |                               |       | 417         | 145  |   |
|    | Less external load                               |                     |                       |    |                |                                |                              |       | 0           | 0    |                               |       | 0           | 0    |   |
|    | Less transfer                                    |                     |                       |    |                |                                |                              |       | 0           | 0    |                               |       | 0           | 0    |   |
|    | Redistribution                                   |                     |                       |    |                |                                |                              |       | 0           | 0    |                               |       | 0           | 0    |   |
| 14 | Subtotal                                         |                     |                       |    |                |                                |                              |       | 2041        | 810  |                               |       | 417         | 145  |   |
| 15 | Duct loads                                       |                     |                       |    |                |                                | 41%                          | 59%   | 842         | 475  | 41%                           | 59%   | 172         | 85   |   |
|    | Total room load                                  |                     |                       |    |                |                                |                              |       | 2883        | 1284 |                               |       | 589         | 230  |   |
|    | Air required (cfm)                               |                     |                       |    |                |                                |                              |       | 139         | 63   |                               |       | 28          | 11   |   |

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

# Right-J® Worksheet

## Entire House

### Spann's Heating and Air INC.

Job: Rodney Wade- Nelson

Date: Mar 29, 2021

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

|    |                                                  |                     |                       |    |                |                                 |                              |       |             |                                |                              |       |             |      |
|----|--------------------------------------------------|---------------------|-----------------------|----|----------------|---------------------------------|------------------------------|-------|-------------|--------------------------------|------------------------------|-------|-------------|------|
| 1  | Room name                                        |                     |                       |    |                | Bedroom 3                       |                              |       |             | Bath 3                         |                              |       |             |      |
| 2  | Exposed wall                                     |                     |                       |    |                | 11.0 ft                         |                              |       |             | 5.5 ft                         |                              |       |             |      |
| 3  | Room height                                      |                     |                       |    |                | 9.0 ft 13.5 x 11.0 ft heat/cool |                              |       |             | 9.0 ft 10.5 x 5.5 ft heat/cool |                              |       |             |      |
| 4  | Room dimensions                                  |                     |                       |    |                | 148.5 ft²                       |                              |       |             | 57.8 ft²                       |                              |       |             |      |
| 5  | Room area                                        |                     |                       |    |                |                                 |                              |       |             |                                |                              |       |             |      |
|    | Ty                                               | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) |                                 | Area (ft²) or perimeter (ft) |       | Load (Btuh) |                                | Area (ft²) or perimeter (ft) |       | Load (Btuh) |      |
|    |                                                  |                     |                       |    | Heat           | Cool                            | Gross                        | N/P/S | Heat        | Cool                           | Gross                        | N/P/S | Heat        | Cool |
| 6  | W                                                | 12C-0sw             | 0.091                 | n  | 3.33           | 2.22                            | 0                            | 0     | 0           | 0                              | 0                            | 0     | 0           | 0    |
| .  | G                                                | 1D-c2ov             | 0.570                 | n  | 20.86          | 21.29                           | 0                            | 0     | 0           | 0                              | 0                            | 0     | 0           | 0    |
| .  | D                                                | 11J0                | 0.600                 | n  | 21.96          | 17.61                           | 0                            | 0     | 0           | 0                              | 0                            | 0     | 0           | 0    |
| 11 | W                                                | 12C-0sw             | 0.091                 | e  | 3.33           | 2.22                            | 0                            | 0     | 0           | 0                              | 0                            | 0     | 0           | 0    |
|    | G                                                | 1D-c2ov             | 0.570                 | e  | 20.86          | 63.38                           | 0                            | 0     | 0           | 0                              | 0                            | 0     | 0           | 0    |
|    | D                                                | 11J0                | 0.600                 | e  | 21.96          | 17.61                           | 0                            | 0     | 0           | 0                              | 0                            | 0     | 0           | 0    |
|    | W                                                | 12C-0sw             | 0.091                 | s  | 3.33           | 2.22                            | 0                            | 0     | 0           | 0                              | 0                            | 0     | 0           | 0    |
|    | G                                                | 1D-c2ov             | 0.570                 | s  | 20.86          | 25.00                           | 0                            | 0     | 0           | 0                              | 0                            | 0     | 0           | 0    |
|    | D                                                | 11J0                | 0.600                 | s  | 21.96          | 17.61                           | 0                            | 0     | 0           | 0                              | 0                            | 0     | 0           | 0    |
|    | W                                                | 12C-0sw             | 0.091                 | w  | 3.33           | 2.22                            | 99                           | 87    | 290         | 193                            | 50                           | 50    | 165         | 110  |
|    | G                                                | 1D-c2ov             | 0.570                 | w  | 20.86          | 63.38                           | 12                           | 0     | 250         | 761                            | 0                            | 0     | 0           | 0    |
|    | C                                                | 16B-38md            | 0.026                 | -  | 0.95           | 1.37                            | 149                          | 149   | 141         | 204                            | 58                           | 58    | 55          | 79   |
|    | F                                                | 22A-tpi             | 0.989                 | -  | 36.20          | 0.00                            | 149                          | 11    | 398         | 0                              | 58                           | 6     | 199         | 0    |
| 6  | c) AED excursion                                 |                     |                       |    |                |                                 |                              |       |             | 217                            |                              |       |             | -16  |
|    | Envelope loss/gain                               |                     |                       |    |                |                                 |                              |       | 1080        | 1375                           |                              |       | 419         | 174  |
| 12 | a) Infiltration                                  |                     |                       |    |                |                                 |                              |       | 213         | 49                             |                              |       | 106         | 25   |
|    | b) Room ventilation                              |                     |                       |    |                |                                 |                              |       | 0           | 0                              |                              |       | 0           | 0    |
| 13 | Internal gains: Occupants @ 230 Appliances/other |                     |                       |    |                |                                 | 2                            |       |             | 460 200                        | 0                            |       |             | 0 0  |
|    | Subtotal (lines 6 to 13)                         |                     |                       |    |                |                                 |                              |       | 1292        | 2084                           |                              |       | 525         | 198  |
| 14 | Less external load                               |                     |                       |    |                |                                 |                              |       | 0           | 0                              |                              |       | 0           | 0    |
|    | Less transfer                                    |                     |                       |    |                |                                 |                              |       | 0           | 0                              |                              |       | 0           | 0    |
| 15 | Redistribution                                   |                     |                       |    |                |                                 |                              |       | 0           | 0                              |                              |       | 0           | 0    |
|    | Subtotal                                         |                     |                       |    |                |                                 |                              |       | 1292        | 2084                           |                              |       | 525         | 198  |
|    | Duct loads                                       |                     |                       |    |                |                                 | 41%                          | 59%   | 533         | 1222                           | 41%                          | 59%   | 217         | 116  |
|    | Total room load                                  |                     |                       |    |                |                                 |                              |       | 1825        | 3306                           |                              |       | 742         | 314  |
|    | Air required (cfm)                               |                     |                       |    |                |                                 |                              |       | 88          | 162                            |                              |       | 36          | 15   |

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

|    |                                                  |                     |                       |       |                |                |                              |       |             |         |                              |       |             |       |  |
|----|--------------------------------------------------|---------------------|-----------------------|-------|----------------|----------------|------------------------------|-------|-------------|---------|------------------------------|-------|-------------|-------|--|
| 1  | Room name                                        |                     |                       |       |                | Bedroom 4      |                              |       |             |         | Den                          |       |             |       |  |
| 2  | Exposed wall                                     |                     |                       |       |                | 11.0 ft        |                              |       |             |         | 35.5 ft                      |       |             |       |  |
| 3  | Room height                                      |                     |                       |       |                | 9.0 ft         |                              |       |             |         | 9.0 ft                       |       |             |       |  |
| 4  | Room dimensions                                  |                     |                       |       |                | 13.5 x 11.0 ft |                              |       |             |         | 17.5 x 9.0 ft                |       |             |       |  |
| 5  | Room area                                        |                     |                       |       |                | 148.5 ft²      |                              |       |             |         | 157.5 ft²                    |       |             |       |  |
|    | Ty                                               | Construction number | U-value (Btuh/ft²·°F) | Or    | HTM (Btuh/ft²) |                | Area (ft²) or perimeter (ft) |       | Load (Btuh) |         | Area (ft²) or perimeter (ft) |       | Load (Btuh) |       |  |
|    |                                                  |                     |                       |       | Heat           | Cool           | Gross                        | N/P/S | Heat        | Cool    | Gross                        | N/P/S | Heat        | Cool  |  |
| 6  | W                                                | 12C-0sw             | 0.091                 | n     | 3.33           | 2.22           | 0                            | 0     | 0           | 0       | 0                            | 0     | 0           | 0     |  |
| 11 | G                                                | 1D-c2ov             | 0.570                 | n     | 20.86          | 21.29          | 0                            | 0     | 0           | 0       | 0                            | 0     | 0           | 0     |  |
|    | D                                                | 11J0                | 0.600                 | n     | 21.96          | 17.61          | 0                            | 0     | 0           | 0       | 0                            | 0     | 0           | 0     |  |
|    | W                                                | 12C-0sw             | 0.091                 | e     | 3.33           | 2.22           | 0                            | 0     | 0           | 0       | 81                           | 81    | 270         | 179   |  |
|    | G                                                | 1D-c2ov             | 0.570                 | e     | 20.86          | 63.38          | 0                            | 0     | 0           | 0       | 0                            | 0     | 0           | 0     |  |
|    | D                                                | 11J0                | 0.600                 | e     | 21.96          | 17.61          | 0                            | 0     | 0           | 0       | 0                            | 0     | 0           | 0     |  |
|    | W                                                | 12C-0sw             | 0.091                 | s     | 3.33           | 2.22           | 0                            | 0     | 0           | 0       | 158                          | 134   | 445         | 296   |  |
|    | G                                                | 1D-c2ov             | 0.570                 | s     | 20.86          | 25.00          | 0                            | 0     | 0           | 0       | 24                           | 0     | 501         | 600   |  |
|    | D                                                | 11J0                | 0.600                 | s     | 21.96          | 17.61          | 0                            | 0     | 0           | 0       | 0                            | 0     | 0           | 0     |  |
|    | W                                                | 12C-0sw             | 0.091                 | w     | 3.33           | 2.22           | 99                           | 87    | 290         | 193     | 81                           | 81    | 270         | 179   |  |
|    | G                                                | 1D-c2ov             | 0.570                 | w     | 20.86          | 63.38          | 12                           | 0     | 250         | 761     | 0                            | 0     | 0           | 0     |  |
|    | C                                                | 16B-38md            | 0.026                 | -     | 0.95           | 1.37           | 149                          | 149   | 141         | 204     | 158                          | 158   | 150         | 216   |  |
| F  | 22A-tpl                                          | 0.989               | -                     | 36.20 | 0.00           | 149            | 11                           | 398   | 0           | 158     | 36                           | 1285  | 0           |       |  |
| 6  | c) AED excursion                                 |                     |                       |       |                |                |                              |       | 217         |         |                              |       | -73         |       |  |
|    | Envelope loss/gain                               |                     |                       |       |                |                |                              | 1080  | 1375        |         |                              | 2920  | 1398        |       |  |
| 12 | a) Infiltration                                  |                     |                       |       |                |                |                              | 213   | 49          |         |                              | 686   | 158         |       |  |
|    | b) Room ventilation                              |                     |                       |       |                |                |                              | 0     | 0           |         |                              | 0     | 0           |       |  |
| 13 | Internal gains: Occupants @ 230 Appliances/other |                     |                       |       |                |                | 2                            |       |             | 460 200 | 0                            |       |             | 0 900 |  |
|    | Subtotal (lines 6 to 13)                         |                     |                       |       |                |                |                              |       | 1292        | 2084    |                              |       | 3606        | 2456  |  |
| 14 | Less external load                               |                     |                       |       |                |                |                              |       | 0           | 0       |                              |       | 0           | 0     |  |
|    | Less transfer                                    |                     |                       |       |                |                |                              |       | 0           | 0       |                              |       | 0           | 0     |  |
|    | Redistribution                                   |                     |                       |       |                |                |                              |       | 0           | 0       |                              |       | 0           | 0     |  |
|    | Subtotal                                         |                     |                       |       |                |                |                              |       | 1292        | 2084    |                              |       | 3606        | 2456  |  |
| 15 | Duct loads                                       |                     |                       |       |                |                | 41%                          | 59%   | 533         | 1222    | 41%                          | 59%   | 1488        | 1441  |  |
|    | Total room load                                  |                     |                       |       |                |                |                              |       | 1825        | 3306    |                              |       | 5093        | 3897  |  |
|    | Air required (cfm)                               |                     |                       |       |                |                |                              |       | 88          | 162     |                              |       | 246         | 191   |  |

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

|    |                          |                     |                       |       |                |                |                              |       |             |      |                              |       |             |      |     |
|----|--------------------------|---------------------|-----------------------|-------|----------------|----------------|------------------------------|-------|-------------|------|------------------------------|-------|-------------|------|-----|
| 1  | Room name                |                     |                       |       |                | Kitchen        |                              |       |             |      | Dining                       |       |             |      |     |
| 2  | Exposed wall             |                     |                       |       |                | 6.5 ft         |                              |       |             |      | 12.5 ft                      |       |             |      |     |
| 3  | Room height              |                     |                       |       |                | 12.0 ft        |                              |       |             |      | 12.0 ft                      |       |             |      |     |
| 4  | Room dimensions          |                     |                       |       |                | 1.0 x 197.0 ft |                              |       |             |      | 12.5 x 17.0 ft               |       |             |      |     |
| 5  | Room area                |                     |                       |       |                | 197.0 ft²      |                              |       |             |      | 212.5 ft²                    |       |             |      |     |
|    | Ty                       | Construction number | U-value (Btuh/ft²·°F) | Or    | HTM (Btuh/ft²) |                | Area (ft²) or perimeter (ft) |       | Load (Btuh) |      | Area (ft²) or perimeter (ft) |       | Load (Btuh) |      |     |
|    |                          |                     |                       |       | Heat           | Cool           | Gross                        | N/P/S | Heat        | Cool | Gross                        | N/P/S | Heat        | Cool |     |
| 6  | W                        | 12C-0sw             | 0.091                 | n     | 3.33           | 2.22           | 78                           | 66    | 220         | 146  | 150                          | 96    | 320         | 213  |     |
| 11 | G                        | 1D-c2ov             | 0.570                 | n     | 20.86          | 21.29          | 12                           | 0     | 250         | 255  | 12                           | 0     | 250         | 255  |     |
|    |                          | 11J0                | 0.600                 | n     | 21.96          | 17.61          | 0                            | 0     | 0           | 0    | 42                           | 42    | 922         | 740  |     |
|    | D                        | 12C-0sw             | 0.091                 | e     | 3.33           | 2.22           | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |     |
|    |                          | 1D-c2ov             | 0.570                 | e     | 20.86          | 63.38          | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |     |
|    | G                        | 11J0                | 0.600                 | e     | 21.96          | 17.61          | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |     |
|    |                          | 12C-0sw             | 0.091                 | s     | 3.33           | 2.22           | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |     |
|    | D                        | 1D-c2ov             | 0.570                 | s     | 20.86          | 25.00          | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |     |
|    |                          | 11J0                | 0.600                 | s     | 21.96          | 17.61          | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |     |
|    | W                        | 12C-0sw             | 0.091                 | w     | 3.33           | 2.22           | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |     |
|    |                          | 1D-c2ov             | 0.570                 | w     | 20.86          | 63.38          | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |     |
|    | C                        | 16B-38md            | 0.026                 | -     | 0.95           | 1.37           | 197                          | 197   | 187         | 271  | 213                          | 213   | 202         | 292  |     |
| F  | 22A-tpl                  | 0.989               | -                     | 36.20 | 0.00           | 197            | 7                            | 235   | 0           | 213  | 13                           | 452   | 0           |      |     |
| 6  | c) AED excursion         |                     |                       |       |                |                |                              |       |             | -139 |                              |       |             | -114 |     |
|    | Envelope loss/gain       |                     |                       |       |                |                |                              |       | 893         | 533  |                              |       | 2147        | 1385 |     |
| 12 | a) Infiltration          |                     |                       |       |                |                |                              |       | 167         | 39   |                              |       | 322         | 74   |     |
|    | b) Room ventilation      |                     |                       |       |                |                |                              |       | 0           | 0    |                              |       | 0           | 0    |     |
| 13 | Internal gains:          |                     | Occupants @           | 230   |                | 0              |                              |       | 0           | 0    | 0                            |       | 0           | 0    |     |
|    |                          |                     | Appliances/other      |       |                |                |                              |       | 1200        |      |                              |       |             |      |     |
|    | Subtotal (lines 6 to 13) |                     |                       |       |                |                |                              |       | 1060        | 1772 |                              |       | 2469        | 1460 |     |
| 14 | Less external load       |                     |                       |       |                |                |                              |       | 0           | 0    |                              |       | 0           | 0    |     |
|    | Less transfer            |                     |                       |       |                |                |                              |       | 0           | 0    |                              |       | 0           | 0    |     |
|    | Redistribution           |                     |                       |       |                |                |                              |       | 0           | 0    |                              |       | 0           | 0    |     |
|    | Subtotal                 |                     |                       |       |                |                |                              |       | 1060        | 1772 |                              |       | 2469        | 1460 |     |
| 15 | Duct loads               |                     |                       |       |                |                |                              | 41%   | 59%         | 438  | 1040                         | 41%   | 59%         | 1019 | 856 |
|    | Total room load          |                     |                       |       |                |                |                              |       | 1498        | 2812 |                              |       | 3488        | 2316 |     |
|    | Air required (cfm)       |                     |                       |       |                |                |                              |       | 72          | 138  |                              |       | 168         | 114  |     |

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

# Right-J® Worksheet

## Entire House

Spann's Heating and Air INC.

Job: Rodney Wade- Nelson

Date: Mar 29, 2021

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

|    |                          |                     |                       |       |                |                |                              |       |             |      |                              |       |             |      |      |
|----|--------------------------|---------------------|-----------------------|-------|----------------|----------------|------------------------------|-------|-------------|------|------------------------------|-------|-------------|------|------|
| 1  | Room name                |                     |                       |       |                | Great Room     |                              |       |             |      | Master Bedroom               |       |             |      |      |
| 2  | Exposed wall             |                     |                       |       |                | 18.5 ft        |                              |       |             |      | 30.5 ft                      |       |             |      |      |
| 3  | Room height              |                     |                       |       |                | 12.0 ft        |                              |       |             |      | 9.0 ft                       |       |             |      |      |
| 4  | Room dimensions          |                     |                       |       |                | 1.0 x 372.0 ft |                              |       |             |      | 15.5 x 15.0 ft               |       |             |      |      |
| 5  | Room area                |                     |                       |       |                | 372.0 ft²      |                              |       |             |      | 232.5 ft²                    |       |             |      |      |
|    | Ty                       | Construction number | U-value (Btuh/ft²·°F) | Or    | HTM (Btuh/ft²) |                | Area (ft²) or perimeter (ft) |       | Load (Btuh) |      | Area (ft²) or perimeter (ft) |       | Load (Btuh) |      |      |
|    |                          |                     |                       |       | Heat           | Cool           | Gross                        | N/P/S | Heat        | Cool | Gross                        | N/P/S | Heat        | Cool |      |
| 6  | W                        | 12C-0sw             | 0.091                 | n     | 3.33           | 2.22           | 0                            | 0     | 0           | 0    | 140                          | 98    | 325         | 216  |      |
| 11 | G                        | 1D-c2ov             | 0.570                 | n     | 20.86          | 21.29          | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |      |
|    |                          | 11J0                | 0.600                 | n     | 21.96          | 17.61          | 0                            | 0     | 0           | 0    | 42                           | 42    | 922         | 740  |      |
|    | W                        | 12C-0sw             | 0.091                 | e     | 3.33           | 2.22           | 0                            | 0     | 0           | 0    | 135                          | 111   | 370         | 246  |      |
|    | G                        | 1D-c2ov             | 0.570                 | e     | 20.86          | 63.38          | 0                            | 0     | 0           | 0    | 24                           | 0     | 501         | 1521 |      |
|    |                          | 11J0                | 0.600                 | e     | 21.96          | 17.61          | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |      |
|    | W                        | 12C-0sw             | 0.091                 | s     | 3.33           | 2.22           | 222                          | 177   | 590         | 392  | 0                            | 0     | 0           | 0    |      |
|    |                          | 1D-c2ov             | 0.570                 | s     | 20.86          | 25.00          | 24                           | 0     | 501         | 600  | 0                            | 0     | 0           | 0    |      |
|    | G                        | 11J0                | 0.600                 | s     | 21.96          | 17.61          | 21                           | 21    | 461         | 370  | 0                            | 0     | 0           | 0    |      |
|    |                          | 12C-0sw             | 0.091                 | w     | 3.33           | 2.22           | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |      |
|    | W                        | 1D-c2ov             | 0.570                 | w     | 20.86          | 63.38          | 0                            | 0     | 0           | 0    | 0                            | 0     | 0           | 0    |      |
|    |                          | C                   | 16B-38md              | 0.026 | -              | 0.95           | 1.37                         | 372   | 372         | 354  | 511                          | 233   | 233         | 221  | 319  |
|    | F                        | 22A-tpl             | 0.989                 | -     | 36.20          | 0.00           | 372                          | 19    | 670         | 0    | 233                          | 31    | 1104        | 0    |      |
| 6  | c) AED excursion         |                     |                       |       |                |                |                              |       |             | -99  |                              |       |             | -59  |      |
|    | Envelope loss/gain       |                     |                       |       |                |                |                              |       |             | 2575 | 1774                         |       |             | 3443 | 2983 |
| 12 | a) Infiltration          |                     |                       |       |                |                |                              |       |             | 477  | 110                          |       |             | 589  | 136  |
|    | b) Room ventilation      |                     |                       |       |                |                |                              |       |             | 0    | 0                            |       |             | 0    | 0    |
| 13 | Internal gains:          |                     | Occupants @           | 230   |                |                | 0                            |       |             | 0    | 2                            |       |             | 460  |      |
|    |                          |                     | Appliances/other      |       |                |                |                              |       |             | 900  |                              |       |             | 200  |      |
|    | Subtotal (lines 6 to 13) |                     |                       |       |                |                |                              |       |             | 3052 | 2784                         |       |             | 4032 | 3779 |
| 14 | Less external load       |                     |                       |       |                |                |                              |       |             | 0    | 0                            |       |             | 0    | 0    |
|    | Less transfer            |                     |                       |       |                |                |                              |       |             | 0    | 0                            |       |             | 0    | 0    |
|    | Redistribution           |                     |                       |       |                |                |                              |       |             | 0    | 0                            |       |             | 0    | 0    |
|    | Subtotal                 |                     |                       |       |                |                |                              |       |             | 3052 | 2784                         |       |             | 4032 | 3779 |
| 15 | Duct loads               |                     |                       |       |                |                |                              | 41%   | 59%         | 1259 | 1633                         | 41%   | 59%         | 1664 | 2217 |
|    | Total room load          |                     |                       |       |                |                |                              |       |             | 4311 | 4417                         |       |             | 5696 | 5996 |
|    | Air required (cfm)       |                     |                       |       |                |                |                              |       |             | 208  | 217                          |       |             | 275  | 295  |

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

# Right-J® Worksheet Entire House Spann's Heating and Air INC.

Job: Rodney Wade- Nelson

Date: Mar 29, 2021

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

|    |                          |                     |                       |       |                |                                 |                              |       |             |      |                                |       |             |      |  |
|----|--------------------------|---------------------|-----------------------|-------|----------------|---------------------------------|------------------------------|-------|-------------|------|--------------------------------|-------|-------------|------|--|
| 1  | Room name                |                     |                       |       |                | Master Bath                     |                              |       |             |      | Laundry                        |       |             |      |  |
| 2  | Exposed wall             |                     |                       |       |                | 10.5 ft                         |                              |       |             |      | 33.0 ft                        |       |             |      |  |
| 3  | Room height              |                     |                       |       |                | 9.0 ft 1.0 x 143.5 ft heat/cool |                              |       |             |      | 9.0 ft 15.5 x 9.0 ft heat/cool |       |             |      |  |
| 4  | Room dimensions          |                     |                       |       |                | 143.5 ft²                       |                              |       |             |      | 139.5 ft²                      |       |             |      |  |
| 5  | Room area                |                     |                       |       |                |                                 |                              |       |             |      |                                |       |             |      |  |
|    | Ty                       | Construction number | U-value (Btuh/ft²·°F) | Or    | HTM (Btuh/ft²) |                                 | Area (ft²) or perimeter (ft) |       | Load (Btuh) |      | Area (ft²) or perimeter (ft)   |       | Load (Btuh) |      |  |
|    |                          |                     |                       |       | Heat           | Cool                            | Gross                        | N/P/S | Heat        | Cool | Gross                          | N/P/S | Heat        | Cool |  |
| 6  | W                        | 12C-0sw             | 0.091                 | n     | 3.33           | 2.22                            | 0                            | 0     | 0           | 0    | 0                              | 0     | 0           | 0    |  |
| 11 | G                        | 1D-c2ov             | 0.570                 | n     | 20.86          | 21.29                           | 0                            | 0     | 0           | 0    | 0                              | 0     | 0           | 0    |  |
|    |                          | 11J0                | 0.600                 | n     | 21.96          | 17.61                           | 0                            | 0     | 0           | 0    | 0                              | 0     | 0           | 0    |  |
|    | D                        | 12C-0sw             | 0.091                 | e     | 3.33           | 2.22                            | 95                           | 71    | 235         | 156  | 81                             | 81    | 270         | 179  |  |
|    |                          | 1D-c2ov             | 0.570                 | e     | 20.86          | 63.38                           | 24                           | 0     | 501         | 1521 | 0                              | 0     | 0           | 0    |  |
|    | W                        | 11J0                | 0.600                 | e     | 21.96          | 17.61                           | 0                            | 0     | 0           | 0    | 0                              | 0     | 0           | 0    |  |
|    |                          | 12C-0sw             | 0.091                 | s     | 3.33           | 2.22                            | 0                            | 0     | 0           | 0    | 140                            | 116   | 385         | 256  |  |
|    | G                        | 1D-c2ov             | 0.570                 | s     | 20.86          | 25.00                           | 0                            | 0     | 0           | 0    | 24                             | 0     | 501         | 600  |  |
|    |                          | 11J0                | 0.600                 | s     | 21.96          | 17.61                           | 0                            | 0     | 0           | 0    | 0                              | 0     | 0           | 0    |  |
|    | W                        | 12C-0sw             | 0.091                 | w     | 3.33           | 2.22                            | 0                            | 0     | 0           | 0    | 77                             | 77    | 255         | 170  |  |
|    |                          | 1D-c2ov             | 0.570                 | w     | 20.86          | 63.38                           | 0                            | 0     | 0           | 0    | 0                              | 0     | 0           | 0    |  |
|    | C                        | 16B-38md            | 0.026                 | -     | 0.95           | 1.37                            | 144                          | 144   | 137         | 197  | 140                            | 140   | 133         | 192  |  |
| F  | 22A-tpi                  | 0.989               | -                     | 36.20 | 0.00           | 144                             | 11                           | 380   | 0           | 140  | 33                             | 1195  | 0           |      |  |
| 6  | c) AED excursion         |                     |                       |       |                |                                 |                              |       | 80          |      |                                |       | -38         |      |  |
|    | Envelope loss/gain       |                     |                       |       |                |                                 |                              | 1252  | 1955        |      |                                | 2737  | 1358        |      |  |
| 12 | a) Infiltration          |                     |                       |       |                |                                 |                              | 203   | 47          |      |                                | 638   | 147         |      |  |
|    | b) Room ventilation      |                     |                       |       |                |                                 |                              | 0     | 0           |      |                                | 0     | 0           |      |  |
| 13 | Internal gains:          |                     | Occupants @           | 230   |                | 0                               |                              |       | 0           | 0    |                                |       | 0           |      |  |
|    |                          |                     | Appliances/other      |       |                |                                 |                              |       | 0           |      |                                |       | 500         |      |  |
|    | Subtotal (lines 6 to 13) |                     |                       |       |                |                                 |                              | 1455  | 2001        |      |                                | 3375  | 2006        |      |  |
| 14 | Less external load       |                     |                       |       |                |                                 |                              | 0     | 0           |      |                                | 0     | 0           |      |  |
|    | Less transfer            |                     |                       |       |                |                                 |                              | 0     | 0           |      |                                | 0     | 0           |      |  |
|    | Redistribution           |                     |                       |       |                |                                 |                              | 0     | 0           |      |                                | 0     | 0           |      |  |
|    | Subtotal                 |                     |                       |       |                |                                 |                              | 1455  | 2001        |      |                                | 3375  | 2006        |      |  |
| 15 | Duct loads               |                     |                       |       |                | 41%                             | 59%                          | 600   | 1174        | 41%  | 59%                            | 1392  | 1176        |      |  |
|    | Total room load          |                     |                       |       |                |                                 |                              | 2055  | 3175        |      |                                | 4767  | 3182        |      |  |
|    | Air required (cfm)       |                     |                       |       |                |                                 |                              | 99    | 156         |      |                                | 230   | 156         |      |  |

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

# Right-J® Worksheet

## Entire House

Spann's Heating and Air INC.

Job: Rodney Wade- Nelson  
Date: Mar 29, 2021  
By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

|    |                          |                     |                       |     |                |                                |                              |       |             |                               |                              |       |             |      |
|----|--------------------------|---------------------|-----------------------|-----|----------------|--------------------------------|------------------------------|-------|-------------|-------------------------------|------------------------------|-------|-------------|------|
| 1  | Room name                |                     |                       |     |                | Closet<br>6.0 ft               |                              |       |             | Toilet<br>0 ft                |                              |       |             |      |
| 2  | Exposed wall             |                     |                       |     |                | 9.0 ft 12.5 x 6.0 ft heat/cool |                              |       |             | 9.0 ft 5.5 x 3.5 ft heat/cool |                              |       |             |      |
| 3  | Room height              |                     |                       |     |                |                                |                              |       |             |                               |                              |       |             |      |
| 4  | Room dimensions          |                     |                       |     |                |                                |                              |       |             |                               |                              |       |             |      |
| 5  | Room area                |                     |                       |     |                | 75.0 ft²                       |                              |       |             | 19.3 ft²                      |                              |       |             |      |
|    | Ty                       | Construction number | U-value (Btuh/ft²·°F) | Or  | HTM (Btuh/ft²) |                                | Area (ft²) or perimeter (ft) |       | Load (Btuh) |                               | Area (ft²) or perimeter (ft) |       | Load (Btuh) |      |
|    |                          |                     |                       |     | Heat           | Cool                           | Gross                        | N/P/S | Heat        | Cool                          | Gross                        | N/P/S | Heat        | Cool |
| 6  | W                        | 12C-0sw             | 0.091                 | n   | 3.33           | 2.22                           | 0                            | 0     | 0           | 0                             | 0                            | 0     | 0           | 0    |
| 11 | G                        | 1D-c2ov             | 0.570                 | n   | 20.86          | 21.29                          | 0                            | 0     | 0           | 0                             | 0                            | 0     | 0           | 0    |
|    | D                        | 11J0                | 0.600                 | n   | 21.96          | 17.61                          | 0                            | 0     | 0           | 0                             | 0                            | 0     | 0           | 0    |
|    | W                        | 12C-0sw             | 0.091                 | e   | 3.33           | 2.22                           | 54                           | 54    | 180         | 120                           | 0                            | 0     | 0           | 0    |
|    | G                        | 1D-c2ov             | 0.570                 | e   | 20.86          | 63.38                          | 0                            | 0     | 0           | 0                             | 0                            | 0     | 0           | 0    |
|    | D                        | 11J0                | 0.600                 | e   | 21.96          | 17.61                          | 0                            | 0     | 0           | 0                             | 0                            | 0     | 0           | 0    |
|    | W                        | 12C-0sw             | 0.091                 | s   | 3.33           | 2.22                           | 0                            | 0     | 0           | 0                             | 0                            | 0     | 0           | 0    |
|    | G                        | 1D-c2ov             | 0.570                 | s   | 20.86          | 25.00                          | 0                            | 0     | 0           | 0                             | 0                            | 0     | 0           | 0    |
|    | D                        | 11J0                | 0.600                 | s   | 21.96          | 17.61                          | 0                            | 0     | 0           | 0                             | 0                            | 0     | 0           | 0    |
|    | W                        | 12C-0sw             | 0.091                 | w   | 3.33           | 2.22                           | 0                            | 0     | 0           | 0                             | 0                            | 0     | 0           | 0    |
|    | G                        | 1D-c2ov             | 0.570                 | w   | 20.86          | 63.38                          | 0                            | 0     | 0           | 0                             | 0                            | 0     | 0           | 0    |
|    | C                        | 16B-38md            | 0.026                 | -   | 0.95           | 1.37                           | 75                           | 75    | 71          | 103                           | 19                           | 19    | 18          | 26   |
|    | F                        | 22A-tpl             | 0.989                 | -   | 36.20          | 0.00                           | 75                           | 6     | 217         | 0                             | 19                           | 0     | 0           | 0    |
|    | 6                        | c) AED excursion    |                       |     |                |                                |                              |       |             | -18                           |                              |       |             | -2   |
|    |                          | Envelope loss/gain  |                       |     |                |                                |                              |       | 468         | 205                           |                              |       | 18          | 25   |
| 12 | a) Infiltration          |                     |                       |     |                |                                |                              | 116   | 27          |                               |                              | 0     | 0           |      |
|    | b) Room ventilation      |                     |                       |     |                |                                |                              | 0     | 0           |                               |                              | 0     | 0           |      |
| 13 | Internal gains:          |                     | Occupants @           | 230 |                | 0                              |                              |       | 0           | 0                             |                              |       | 0           | 0    |
|    |                          |                     | Appliances/other      |     |                |                                |                              |       | 0           |                               |                              |       | 0           |      |
|    | Subtotal (lines 6 to 13) |                     |                       |     |                |                                |                              | 584   | 231         |                               |                              | 18    | 25          |      |
| 14 | Less external load       |                     |                       |     |                |                                |                              | 0     | 0           |                               |                              | 0     | 0           |      |
|    | Less transfer            |                     |                       |     |                |                                |                              | 0     | 0           |                               |                              | 0     | 0           |      |
|    | Redistribution           |                     |                       |     |                |                                |                              | 0     | 0           |                               |                              | 0     | 0           |      |
|    | Subtotal                 |                     |                       |     |                |                                |                              | 584   | 231         |                               |                              | 18    | 25          |      |
| 15 | Duct loads               |                     |                       |     |                | 41%                            | 59%                          | 241   | 136         | 41%                           | 59%                          | 8     | 14          |      |
|    | Total room load          |                     |                       |     |                |                                |                              | 825   | 367         |                               |                              | 26    | 39          |      |
|    | Air required (cfm)       |                     |                       |     |                |                                |                              | 40    | 18          |                               |                              | 1     |             |      |

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



# Manual S Compliance Report

## Entire House

Spann's Heating and Air INC.

Job: Rodney Wade- Nelson

Date: Mar 29, 2021

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

### Project Information

For: Rodney Wade- Nelson

### Cooling Equipment

#### Design Conditions

|                           |                             |                          |
|---------------------------|-----------------------------|--------------------------|
| Outdoor design DB: 91.9°F | Sensible gain: 38679 Btuh   | Entering coil DB: 77.3°F |
| Outdoor design WB: 76.2°F | Latent gain: 5170 Btuh      | Entering coil WB: 72.3°F |
| Indoor design DB: 75.0°F  | Total gain: 43849 Btuh      |                          |
| Indoor RH: 85%            | Estimated airflow: 1900 cfm |                          |

#### Manufacturer's Performance Data at Actual Design Conditions

|                               |                                |
|-------------------------------|--------------------------------|
| Equipment type: Split ASHP    |                                |
| Manufacturer: Comfortmaker    | Model: N4H460GKG10+FXM4X6000AL |
| Actual airflow: 1900 cfm      |                                |
| Sensible capacity: 39900 Btuh | 103% of load                   |
| Latent capacity: 17100 Btuh   | 331% of load                   |
| Total capacity: 57000 Btuh    | 130% of load SHR: 70%          |

### Heating Equipment

#### Design Conditions

|                           |                       |                          |
|---------------------------|-----------------------|--------------------------|
| Outdoor design DB: 33.4°F | Heat loss: 39378 Btuh | Entering coil DB: 68.9°F |
| Indoor design DB: 70.0°F  |                       |                          |

#### Manufacturer's Performance Data at Actual Design Conditions

|                                    |                                |
|------------------------------------|--------------------------------|
| Equipment type: Split ASHP         |                                |
| Manufacturer: Comfortmaker         | Model: N4H460GKG10+FXM4X6000AL |
| Actual airflow: 1900 cfm           |                                |
| Output capacity: 54500 Btuh        | 138% of load                   |
| Supplemental heat required: 0 Btuh |                                |
| Capacity balance: 26 °F            |                                |
| Economic balance: -99 °F           |                                |

|                                   |                               |
|-----------------------------------|-------------------------------|
| Backup equipment type: Elec strip |                               |
| Manufacturer: n/a                 | Model: n/a+n/a                |
| Actual airflow: 1900 cfm          |                               |
| Output capacity: 10.6 kW          | 92% of load Temp. rise: 41 °F |

Meets all requirements of ACCA Manual S.



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# Residential Plans Examiner Review Form for HVAC System Design (Loads, Equipment, Ducts)

Form  
RPER 1  
15 Mar 09

## Header Information

Contractor: Spann's Heating and Air INC.  
Mechanical license: Jack Spann

Building plan #:

Home address (Street or Lot#, Block, Subdivision): , Entire House

### REQUIRED ATTACHMENTS

Manual J1 Form (and supporting worksheets):  
or MJ1AE Form\* (and supporting worksheets):  
OEM performance data (heating, cooling, blower):  
Manual D Friction Rate Worksheet:  
Duct distribution sketch:

### ATTACHED

|     |                          |    |                          |
|-----|--------------------------|----|--------------------------|
| Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

## HVAC LOAD CALCULATION (IRC M1401.3)

### Design Conditions

#### Winter Design Conditions

Outdoor temperature: 33 °F  
Indoor temperature: 70 °F  
Total heat loss: 39378 Btuh

#### Summer Design Conditions

Outdoor temperature: 92 °F  
Indoor temperature: 75 °F  
Grains difference: 0 gr/lb @85% RH  
Sensible heat gain: 39916 Btuh  
Latent heat gain: 5336 Btuh  
Total heat gain: 45252 Btuh

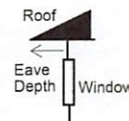
### Building Construction Information

#### Building

Orientation: Front Door faces North  
North, East, West, South, Northeast, Northwest, Southeast, Southwest  
Number of bedrooms: 0  
Conditioned floor area: 2158 ft²  
Number of occupants: 8

#### Windows

Eave overhang depth: 0 ft  
Internal shade: none  
Blinds, drapes, etc.  
Number of skylights: 0



## HVAC EQUIPMENT SELECTION (IRC M1401.3)

### Heating Equipment Data

Equipment type: Split ASHP  
Furnace, Heat pump, Boiler, etc.  
Model: Comfortmaker  
N4H460GKG10+FXM4X6000AL  
Heating output capacity: 0 Btuh  
Heat pumps - capacity at winter design outdoor conditions  
Aux. heating output capacity: 36281 Btuh

### Cooling Equipment Data

Equipment type: Split ASHP  
Air Conditioner, Heat pump, etc.  
Model: Comfortmaker  
N4H460GKG10+FXM4X6000AL  
Total cooling capacity: 0 Btuh  
Sensible cooling capacity: 0 Btuh  
Latent cooling capacity: 0 Btuh

### Blower Data

Heating cfm: 1900  
Cooling cfm: 1900  
Static pressure: 0.70 in H2O  
Fan's rated external static pressure for design airflow

## HVAC DUCT DISTRIBUTION SYSTEM DESIGN (IRC M1601.1)

|                                              |                                                                    |                                            |
|----------------------------------------------|--------------------------------------------------------------------|--------------------------------------------|
| Design airflow: 1900 cfm                     | Longest supply duct: 358 ft                                        | Duct Materials Used                        |
| Equipment design ESP: 0.70 in H2O            | Longest return duct: 0 ft                                          | Trunk duct: Sheet metal, Fiberglass board  |
| Total device pressure losses: 0 in H2O       | Total effective length (TEL): 358 ft                               | Branch duct: Round flex vinyl, Sheet metal |
| Available static pressure (ASP): 0.70 in H2O | Friction rate: 0.195 in/100ft<br>Friction Rate = ASP ÷ (TEL x 100) |                                            |

I declare the load calculation, equipment, equipment selection and duct design were rigorously performed based on the building plan listed above. I understand the claims made on these forms will be subject to review and verification.

Contractor's printed name: \_\_\_\_\_

Contractor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Reserved for County, Town Municipality or Authority having jurisdiction use.

\*Home qualifies for MJ1AE Form based on Abridged Edition Checklist



# Duct System Summary

## Entire House

### Spann's Heating and Air INC.

Job: Rodney Wade- Nelson

Date: Mar 29, 2021

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

## Project Information

For: Rodney Wade- Nelson

|                                    | Heating              | Cooling              |
|------------------------------------|----------------------|----------------------|
| External static pressure           | 0.70 in H2O          | 0.70 in H2O          |
| Pressure losses                    | 0 in H2O             | 0 in H2O             |
| Available static pressure          | 0.70 in H2O          | 0.70 in H2O          |
| Supply / return available pressure | 0.350 / 0.350 in H2O | 0.350 / 0.350 in H2O |
| Lowest friction rate               | 0.195 in/100ft       | 0.195 in/100ft       |
| Actual air flow                    | 1900 cfm             | 1900 cfm             |
| Total effective length (TEL)       | 358 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 |
|------------------|---------------|-----------|-----------|-----------|-----------|------------|-----------|----------------|-----------------|-------|
| Bath 2           | h 2883        | 139       | 63        | 0.231     | 5.0       | 0x0        | VIFx      | 48.2           | 255.0           | st3   |
| Bath 3           | h 742         | 36        | 15        | 0.204     | 5.0       | 0x0        | VIFx      | 34.0           | 310.0           | st3   |
| Bedroom 2        | c 4037        | 181       | 198       | 0.236     | 7.0       | 0x0        | VIFx      | 51.1           | 245.0           | st3   |
| Bedroom 3        | c 3306        | 88        | 162       | 0.246     | 7.0       | 0x0        | VIFx      | 39.2           | 245.0           | st3   |
| Bedroom 4        | c 3306        | 88        | 162       | 0.246     | 7.0       | 0x0        | VIFx      | 39.2           | 245.0           | st3   |
| Closet           | h 825         | 40        | 18        | 0.366     | 5.0       | 0x0        | VIFx      | 21.1           | 170.0           | st1   |
| Den              | h 5093        | 246       | 191       | 0.196     | 7.0       | 0x0        | VIFx      | 46.9           | 310.0           | st3   |
| Dining           | h 3488        | 168       | 114       | 0.227     | 7.0       | 0x0        | VIFx      | 28.2           | 280.0           | st3   |
| Great Room-A     | c 4417        | 208       | 217       | 0.241     | 7.0       | 0x0        | VIFx      | 20.7           | 270.0           | st3   |
| Kitchen          | c 2812        | 72        | 138       | 0.237     | 7.0       | 0x0        | VIFx      | 30.7           | 265.0           | st3   |
| Laundry          | h 4767        | 230       | 156       | 0.269     | 6.0       | 0x0        | VIFx      | 25.5           | 235.0           | st2   |
| Master Bath      | c 3175        | 99        | 156       | 0.369     | 6.0       | 0x0        | VIFx      | 19.6           | 170.0           | st1   |
| Master Bedroom-A | c 5996        | 275       | 295       | 0.275     | 7.0       | 0x0        | VIFx      | 19.3           | 235.0           | st2   |
| Pantry           | h 589         | 28        | 11        | 0.195     | 5.0       | 0x0        | VIFx      | 48.5           | 310.0           | st3   |
| Toilet           | c 39          | 1         | 2         | 0.283     | 5.0       | 0x0        | VIFx      | 12.8           | 235.0           | st2   |

## Supply Trunk Detail Table

| Name | Trunk Type | Htg (cfm) | Clg (cfm) | Design FR | Veloc (fpm) | Diam (in) | H x W (in) | Duct Material | Trunk |
|------|------------|-----------|-----------|-----------|-------------|-----------|------------|---------------|-------|
| st2  | Peak AVF   | 506       | 453       | 0.269     | 759         | 8.7       | 8 x 12     | ShtMetl       | st1   |
| st3  | Peak AVF   | 1255      | 1273      | 0.195     | 721         | 18.0      | 0 x 0      | RectFbg       | st1   |
| st1  | Peak AVF   | 1900      | 1900      | 0.195     | 871         | 20.0      | 0 x 0      | RectFbg       |       |

*Bold/italic values have been manually overridden*



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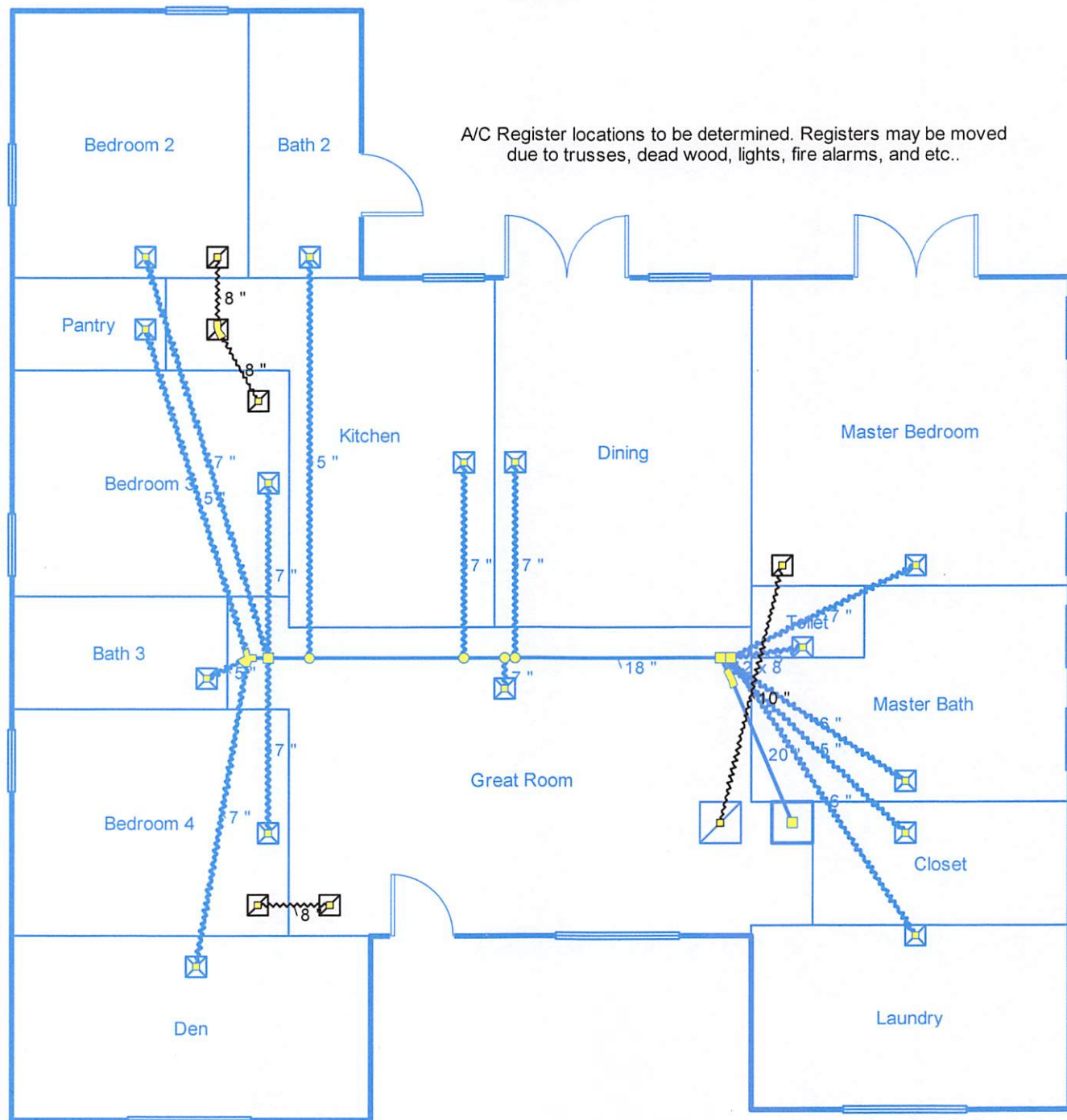
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## Return Branch Detail Table

| Name | Grille<br>Size (in) | Htg<br>(cfm) | Clg<br>(cfm) | TEL<br>(ft) | Design<br>FR | Veloc<br>(fpm) | Diam<br>(in) | H x W<br>(in) | Stud/Joist<br>Opening (in) | Duct<br>Matl | Trunk |
|------|---------------------|--------------|--------------|-------------|--------------|----------------|--------------|---------------|----------------------------|--------------|-------|
| rb1  | 0x0                 | 1900         | 1900         | 0           | 0            | 0              | 0            | 0x 0          |                            | ShMt         |       |



## Level 2



**Job #:** Rodney Wade- Nelson  
**Performed for:**  
Rodney Wade- Nelson

### Spann's Heating and Air INC.

16051 NW 30th Ave  
Trenton, FL 32693  
Phone: 3524636440  
spann21@bellsouth.net

Scale: 1 : 90

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