

| DUCTWORK AND FITTING ASSEMBLY SCHEDULE   |             |   |  |   |                            |                            |          |                 |            |                       |                         |        |                      |     |                             |  |                          |                              |                                |                                       |  |
|--|-------------|---|--|---|----------------------------|----------------------------|----------|-----------------|------------|-----------------------|-------------------------|--------|----------------------|-----|-----------------------------|--|--------------------------|------------------------------|--------------------------------|---------------------------------------|--|
| SINGLE LINE  | DOUBLE LINE | SYSTEM NAME                                 |  | SYSTEM  | PRESSURE RANGE             | PRESSURE CLASS             | MATERIAL | CONNECTION TYPE | DUCT LINER | ANTIMICROBIAL COATING | INSULATION THICKNESS    |        |                      |     |                             | COVERING   | COVERING COLOR           | IDENTIFICATION PRIMARY COLOR | IDENTIFICATION SECONDARY COLOR | IDENTIFICATION TEXT                   |  |
|  |             |   |  |   |                            |                            |          |                 |            |                       | FGF                     | FDW    | FRI                  | RGF | CSI                         |  |                          |                              |                                |                                       |  |
|  |             | RECTANGULAR OR SQUARE DUCT (SIZE IN INCHES) |  |   |                            |                            |          |                 |            |                       |                         |        |                      |     |                             |  |                          |                              |                                |                                       |  |
|  |             | SA  | SUPPLY AIR DUCT<br>ELBOW (UP AND DOWN)               | DOWNSTREAM OF TERMINAL UNIT<br>UPSTREAM OF TERMINAL UNIT        | 0 - 2 IN WC<br>2 - 6 IN WC | 1 - 2 IN WC<br>3 - 6 IN WC | GST      | SND, FLG        | YES        | NO                    | 1"                      | 1 1/2" | --                   | 1"  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | GREEN<br>GREEN               | WHITE<br>WHITE                 | SUPPLY AIR<br>SUPPLY AIR - PRIMARY    |  |
|  |             | OA  | OUTSIDE AIR DUCT<br>ELBOW (UP AND DOWN)              | UPSTREAM OF HEAT<br>TRANSFER DEVICE                             | 0 - 2 IN WC                | 1 - 2 IN WC                | GST      | SND, FLG        | NO         | NO                    | 1"                      | 1 1/2" | --                   | 1"  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | GREEN<br>GREEN               | WHITE<br>WHITE                 | OUTSIDE AIR                           |  |
|  |             | RA  | RETURN/RELIEF DUCT<br>ELBOW (UP AND DOWN)            | CONNECTED TO TERMINAL UNIT<br>CONNECTED TO RTU / AHU            | 0 - 2 IN WC<br>2 - 6 IN WC | 1 - 2 IN WC<br>3 - 6 IN WC | GST      | SND, FLG        | YES        | NO                    | 1"                      | 1 1/2" | --                   | 1"  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | GREEN<br>GREEN               | WHITE<br>WHITE                 | RETURN AIR<br>RETURN AIR - PRIMARY    |  |
|  |             | TA  | TRANSFER DUCT<br>ELBOW (UP AND DOWN)                 | NOT PRESSURIZED   | 0 - 2 IN WC                | 1 - 2 IN WC                | GST      | SND, FLG        | YES        | NO                    | --                      | --     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | GREEN<br>GREEN               | WHITE<br>WHITE                 | TRANSFER AIR                          |  |
|  |             | EA  | EXHAUST DUCT<br>ELBOW (UP AND DOWN)                  | UPSTREAM OF FAN<br>DISCHARGE OF FAN                             | 0 - 2 IN WC<br>2 - 6 IN WC | 1 - 2 IN WC<br>4 - 6 IN WC | GST      | SND, FLG        | NO         | NO                    | --                      | --     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | BLUE<br>BLUE                 | WHITE<br>WHITE                 | EXHAUST AIR<br>EXHAUST AIR - POSITIVE |  |
|  |             | FA  | FLUE<br>ELBOW (UP AND DOWN)                          | DISCHARGE OF BOILER<br>DISCHARGE OF ENGINE                      | 2 - 6 IN WC                | 4 - 6 IN WC                | SST      | DWB             | NO         | NO                    | --                      | --     | --                   | --  | 3"                          | SST  | NONE                     | BLUE                         | WHITE                          | FLUE                                  |  |
|  |             | GA  | KITCHEN HOOD / GREASE EXHAUST<br>ELBOW (UP AND DOWN) | GREASE HOOD TO DISCHARGE  | 2 - 6 IN WC                | 4 - 6 IN WC                | SST      | WLD             | NO         | NO                    | --                      | --     | ASTM<br>E2336        | --  | --                          | FSK  | DXP: BLACK               | BLUE                         | WHITE                          | GREASE EXHAUST                        |  |
|  |             | ROUND DUCT<br>(SIZE IN INCHES)              |  |   |                            |                            |          |                 |            |                       |                         |        |                      |     |                             |  |                          |                              |                                |                                       |  |
|  |             | SA  | SUPPLY AIR DUCT<br>ELBOW (UP AND DOWN)               | DOWNSTREAM OF TERMINAL UNIT<br>UPSTREAM OF TERMINAL UNIT        | 0 - 2 IN WC<br>2 - 6 IN WC | 1 - 2 IN WC<br>4 - 6 IN WC | GST      | SND, FLG        | NO         | YES<br>YES            | --                      | 2"     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | GREEN<br>GREEN               | WHITE<br>WHITE                 | SUPPLY AIR<br>SUPPLY AIR - PRIMARY    |  |
|  |             | OA  | OUTSIDE AIR DUCT<br>ELBOW (UP AND DOWN)              | UPSTREAM OF HEAT<br>TRANSFER DEVICE                             | 0 - 2 IN WC                | 1 - 2 IN WC                | GST      | SND, FLG        | NO         | YES                   | --                      | 2"     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | GREEN<br>GREEN               | WHITE<br>WHITE                 | OUTSIDE AIR                           |  |
|  |             | RA  | RETURN/RELIEF DUCT<br>ELBOW (UP AND DOWN)            | CONNECTED TO TERMINAL UNIT<br>CONNECTED TO RTU / AHU            | 0 - 2 IN WC<br>2 - 6 IN WC | 1 - 2 IN WC<br>4 - 6 IN WC | GST      | SND, FLG        | NO         | YES                   | --                      | 2"     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | GREEN<br>GREEN               | WHITE<br>WHITE                 | RETURN AIR<br>RETURN AIR - PRIMARY    |  |
|  |             | EA  | EXHAUST DUCT<br>ELBOW (UP AND DOWN)                  | UPSTREAM OF FAN<br>DISCHARGE OF FAN                             | 0 - 2 IN WC<br>2 - 6 IN WC | 1 - 2 IN WC<br>4 - 6 IN WC | GST      | SND, FLG        | NO         | NO                    | --                      | --     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | BLUE<br>BLUE                 | WHITE<br>WHITE                 | EXHAUST AIR<br>EXHAUST AIR - POSITIVE |  |
|  |             | HA  | HAZARDOUS AIR DUCT<br>ELBOW (UP AND DOWN)            | HAZARDOUS OR DOWNSTREAM<br>OF HOOD                              | 2 - 6 IN WC                | 4 - 6 IN WC                | SST      | SLD, WLD        | NO         | NO                    | --                      | --     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | BLUE<br>BLUE                 | WHITE<br>WHITE                 | EXHAUST AIR<br>EXHAUST AIR - POSITIVE |  |
|  |             | FA  | FLUE DUCT<br>ELBOW (UP AND DOWN)                     | CONDENSING FLUE LESS THAN 140 F<br>CONDENSING FLUE              | 2 - 6 IN WC<br>2 - 6 IN WC | 4 - 6 IN WC<br>4 - 6 IN WC | CPVC     | GLUE<br>FLG     | NO         | NO                    | --                      | --     | --                   | --  | --                          | PVC  | DXP: BLACK<br>DXP: BLACK | BLUE<br>BLUE                 | WHITE<br>WHITE                 | FLUE                                  |  |
|  |             | XA  | CORROSIVE AIR<br>ELBOW (UP AND DOWN)                 | CORROSIVE LESS THAN 140 F<br>CORROSIVE                          | 2 - 6 IN WC<br>2 - 6 IN WC | 4 - 6 IN WC<br>4 - 6 IN WC | CPVC     | GLUE<br>WLD     | NO         | NO                    | --                      | --     | --                   | --  | --                          | PVC  | DXP: BLACK               | BLUE                         | WHITE                          | FLUE                                  |  |
|  |             | EX  | EXPLOSIVE AIR<br>ELBOW (UP AND DOWN)                 | EXPLOSIVE AIR LESS THAN 140F<br>EXPLOSIVE AIR GREATER THAN 140F | 2 - 6 IN WC<br>2 - 6 IN WC | 4 - 6 IN WC<br>4 - 6 IN WC | CPVC     | GLUE<br>WLD     | NO         | NO                    | --                      | --     | --                   | --  | --                          | PVC  | DXP: BLACK               | BLUE                         | WHITE                          | FLUE                                  |  |
|  |             | CA  | COMBUSTION AIR DUCT<br>ELBOW (UP AND DOWN)           | COMBUSTION AIR LESS THAN 140 F<br>TO MATCH FLUE MATERIAL        | 2 - 6 IN WC<br>2 - 6 IN WC | 4 - 6 IN WC<br>4 - 6 IN WC | CPVC     | GLUE<br>FLG     | NO         | NO                    | --                      | --     | --                   | --  | --                          | PVC  | DXP: BLACK               | GREEN                        | WHITE                          | SUPPLY AIR                            |  |
|  |             | FLAT OVAL DUCT<br>(SIZE IN INCHES)          |  |   |                            |                            |          |                 |            |                       |                         |        |                      |     |                             |  |                          |                              |                                |                                       |  |
|  |             | SA  | SUPPLY AIR DUCT<br>ELBOW (UP AND DOWN)               | DOWNSTREAM OF TERMINAL UNIT<br>UPSTREAM OF TERMINAL UNIT        | 0 - 2 IN WC<br>2 - 6 IN WC | 1 - 2 IN WC<br>4 - 6 IN WC | GST      | SND, FLG        | NO         | YES<br>YES            | --                      | 2"     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | GREEN<br>GREEN               | WHITE<br>WHITE                 | SUPPLY AIR<br>SUPPLY AIR - PRIMARY    |  |
|  |             | OA  | OUTSIDE AIR DUCT<br>ELBOW (UP AND DOWN)              | UPSTREAM OF HEAT<br>TRANSFER DEVICE                             | 0 - 2 IN WC                | 1 - 2 IN WC                | GST      | SND, FLG        | NO         | YES                   | --                      | 2"     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | GREEN<br>GREEN               | WHITE<br>WHITE                 | OUTSIDE AIR                           |  |
|  |             | RA  | RETURN/RELIEF DUCT<br>ELBOW (UP AND DOWN)            | CONNECTED TO TERMINAL UNIT<br>CONNECTED TO RTU / AHU            | 0 - 2 IN WC<br>2 - 6 IN WC | 1 - 2 IN WC<br>4 - 6 IN WC | GST      | SND, FLG        | NO         | YES                   | --                      | 2"     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | GREEN<br>GREEN               | WHITE<br>WHITE                 | RETURN AIR<br>RETURN AIR - PRIMARY    |  |
|  |             | EA  | EXHAUST DUCT<br>ELBOW (UP AND DOWN)                  | UPSTREAM OF FAN<br>DISCHARGE OF FAN                             | 0 - 2 IN WC<br>2 - 6 IN WC | 1 - 2 IN WC<br>4 - 6 IN WC | GST      | SND, FLG        | NO         | NO                    | --                      | --     | --                   | --  | --                          | DXP: PVC, ALM, SST CCL; FSK<br>DXP: PVC, ALM, SST CCL; FSK | DXP: BLACK<br>DXP: BLACK | BLUE<br>BLUE                 | WHITE<br>WHITE                 | EXHAUST AIR<br>EXHAUST AIR - POSITIVE |  |
| NOTES:<br>1. ALL DUCTWORK SYSTEM TYPES MAY NOT BE USED ON THE CONTRACT DOCUMENTS.<br>2. EXTERIOR DUCTWORK SHALL BE INSULATED WITH 2" THICK ELASTOMERIC INSULATION WITH ALUMINUM OR STAINLESS STEEL JACKET, ARMATUFF OR EQUAL.<br>3. LABEL DUCTWORK EVERY 25' AT EACH CONNECTION TO A TEE AND AT FLOOR PENETRATIONS.<br>4. COATING COLOR APPLIES TO EXPOSED INTERIOR DUCTWORK ONLY.<br>5. DUCT SIZES ARE CLEAR INTERIOR DIMENSIONS.<br>6. DUCT LINER REQUIREMENTS INDICATED IN THIS SCHEDULE ARE THE MINIMUM AMOUNTS REQUIRED. IF THE DRAWINGS INDICATE ADDITIONAL LINER IS REQUIRED, ADDITIONAL LINER SHALL BE PROVIDED. IF NO LINER IS INDICATED ON THE DRAWINGS, THE MINIMUM AS REQUIRED BY THIS SCHEDULE SHALL BE PROVIDED. UNDER CONTRACTORS' OPTION, THE LINER MAY BE EXTENDED TO THE NEXT TRANSITION, BUT NO LESS THAN THE MINIMUM LENGTH SPECIFIED IN THIS SCHEDULE SHALL BE PROVIDED.<br>7. DO NOT PAINT CPVC DUCTWORK OR JACKET. FURNISH COLORED BANDS ON CPVC DUCTWORK. PROVIDE COLORED PVC JACKETS.<br>8. ALL INSULATION SHALL HAVE A COVERING. DO NOT PAINT INSULATION DIRECTLY. |             |   |  |   |                            |                            |          |                 |            |                       |                         |        |                      |     |                             |  |                          |                              |                                |                                       |  |
|  |             |   |  |   |                            |                            |          |                 |            | ALM                   | ALUMINUM                | ELM    | ELASTOMERIC          | FSK | FOIL BACK KRAFT FIBER PAPER | SLD  | SOLDERED                 |                              |                                |                                       |  |
|  |             |   |  |   |                            |                            |          |                 |            | ASK                   | WHITE KRAFT FIBER PAPER | EXP    | EXPOSED              | FRI | FIRE-RATED INSULATION       | SND  | SUP-N-DRIVE              |                              |                                |                                       |  |
|  |             |   |  |   |                            |                            |          |                 |            | CCL                   | CONCEALED               | FGF    | FIBERGLASS           | GST | GALVANIZED STEEL            | SST  | STAINLESS STEEL          |                              |                                |                                       |  |
|  |             |   |  |   |                            |                            |          |                 |            | CLG                   | CELLULAR GLASS          | FDW    | FIBERGLASS DUCT WRAP | PVC | POLYVINYL CHLORIDE          | WLD  | WELDED                   |                              |                                |                                       |  |
|  |             |   |  |   |                            |                            |          |                 |            | CSI                   | CALCIUM SILICATE        | FLG    | FLANGED              | RGF | RIGID GLASS FIBER           |  |                          |                              |                                |                                       |  |
|  |             |   |  |   |                            |                            |          |                 |            | DWB                   | DOUBLE WALL BANDED      | PGF    | FLEXIBLE GLASS FIBER |     |                             |  |                          |                              |                                |                                       |  |

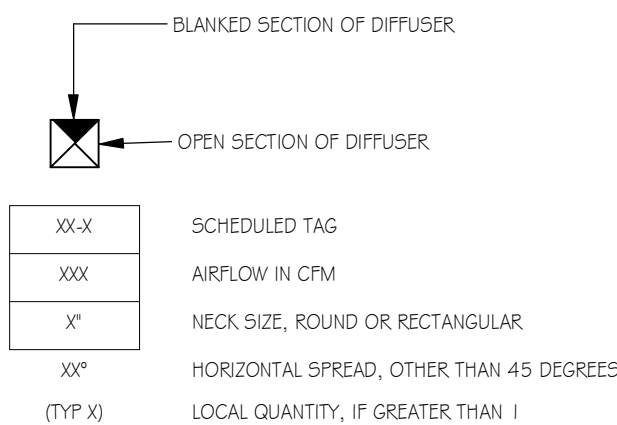
| FURNACE GAS UNIT SCHEDULE   |                 |            |                 |           |            |           |              |                 |                            |       |       |      |           |          |
|---|-----------------|------------|-----------------|-----------|------------|-----------|--------------|-----------------|----------------------------|-------|-------|------|-----------|----------|
| TAG   | BASIS OF DESIGN |            | ASSOCIATED UNIT | AIR FLOW  | ESP        | FRESH AIR | HEATING DATA |                 | ELECTRICAL CHARACTERISTICS |       |       |      | WEIGHT    | COMMENTS |
|   | MANUFACTURER    | MODEL      |                 |           |            |           | INPUT        | SUPPLY AIR TEMP | VOLTAGE                    | PHASE | MCA   | MOCP |           |          |
| GF-1  | TRANE           | 59V2B0G0U3 | CU-1            | 1,099 CFM | 0.30 in-wg | 194 CFM   | 60000 Btu    | 95 °F           | 120 V                      | 1     | 8.9 A | 15 A | 119.00 lb | 1, 2     |
| 1. CASSED COOLING COIL.<br>2. EXTEND 1" CONDENSATE DRAIN TO OUTSIDE TO SPILL TO GRADE. RUN CONCEALED IN CONSTRUCTION. |                 |            |                 |           |            |           |              |                 |                            |       |       |      |           |          |

## Outside Air / ASHRAE Standard 62.1 Summary

### System Ventilation Requirements

| System    | Mode    | ΣVpz (cfm) | Ps People | ΣPz People | D Ps / ΣPz | Vou (cfm) | Vps (cfm) | Xs    | Ev  | Vot (cfm) | %OA Vot / Vps |
|-----------|---------|------------|-----------|------------|------------|-----------|-----------|-------|-----|-----------|---------------|
| GF-1_GF-1 | Cooling | 1,099      | 6         | 12         | 1          | 155       | 1,099     | 0.177 | 1   | 155       | 14.1%         |
|           | Heating | 1,099      | 6         | 12         | 1          | 155       | 1,099     | 0.177 | 0.8 | 194       | 17.7%         |

| AIR TERMINAL SCHEDULE |                  |       |         |
|-----------------------|------------------|-------|---------|
| TAG                   | MANUFACTURER     | MODEL | REMARKS |
| RG-1                  | PRICE INDUSTRIES | LFC   |         |
| RG-1                  | PRICE INDUSTRIES | LFC   |         |
| RG-2                  | PRICE            | 620   |         |
| SD-1                  | PRICE            | SPD   |         |
| SD-2                  | PRICE            | SPD   |         |



## DIFFUSER TAG

## CONDENSING UNIT SCHEDULE

| TAG  | BASIS OF DESIGN |               | ASSOCIATED UNIT | COOLING CAPACITY | ELECTRICAL CHARACTERISTICS |       |           |      | WEIGHT | COMMENTS |
|------|-----------------|---------------|-----------------|------------------|----------------------------|-------|-----------|------|--------|----------|
|      | MANUFACTURER    | MODEL         |                 |                  | VOLT                       | PHASE | FREQUENCY | AMPS | MOCP   |          |
| CU-1 | TRANE           | 4TTR3036N100A | GF-1            | 34300.0 Btu/h    | 208                        | 1     | 60 Hz     | 16 A | 25 A   | 161      |

1. LOW AMBIENT KIT  
2. EXTEND REFRIGERANT PIPING FROM CU TO ASSOCIATED COIL. SIZE PER MANUFACTURER'S RECOMMENDATIONS.

## GAS UNIT HEATER SCHEDULE

| TAG  | BASIS OF DESIGN |              | AIR FLOW | HEATING INPUT | HEATING OUTPUT | ELECTRICAL CHARACTERISTICS |       |       |       | WEIGHT  | COMMENTS |
|------|-----------------|--------------|----------|---------------|----------------|----------------------------|-------|-------|-------|---------|----------|
|      | MANUFACTURER    | MODEL #      |          |               |                | VOLT                       | PHASE | AMPS  | MCA   |         |          |
| UH-1 | TRANE           | GTNE-00GATB1 | 740 CFM  | 60000 Btu     | 49800.0 Btu/h  | 115                        | 1     | 4.1 A | 4.8 A | 80.0 lb |          |
| UH-2 | TRANE           | GTNE-00GATB1 | 740 CFM  | 60000 Btu     | 49800.0 Btu/h  | 115                        | 1     | 4.1 A | 4.8 A | 80.0 lb |          |

## EXHAUST FAN SCHEDULE

| UNIT TAG | BASIS OF DESIGN |         | AIR FLOW | ESP        | DRIVE  | KW     | ELECTRICAL CHARACTERISTICS |       |           | AMPS  | WEIGHT | COMMENTS |
|----------|-----------------|---------|----------|------------|--------|--------|----------------------------|-------|-----------|-------|--------|----------|
|          | MANUFACTURER    | MODEL   |          |            |        |        | VOLT                       | Phase | FREQUENCY |       |        |          |
| EF-1     | GREENHECK       | SP-B200 | 160 CFM  | 0.75 in-wg | DIRECT | 27.0 W | 115                        | 1     | 60 Hz     | 2.2 A | 10     |          |

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GREEN BUILDING ENGINEERS

2548 Brandywine Lane, York, PA 17404  
412-841-4901  
717-554-0153

426 S THIRD STREET  
SUITE 01  
LEMOYNE, PA 17043  
717-920-2282  
KBDDESIGNSTUDIO.COM

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HVAC SCHEDULES

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DATE : 01/08/2024

SCALE : AS NOTED

JOB NO: 544-23

SHEET

M-601