

VENTILATION SCHEDULE PER 2015 INTERNATIONAL MECHANICAL CODE

| ROOM No. | ROOM NAME | CATEGORY | FLOOR AREA SQ. FT. | ORDINANCE REQUIREMENT | | | | ACTUAL VENT. | | | | REMARKS | |
|----------|------------------------------|----------------------------|--------------------|-------------------------------------|---------------------------|-----------------------------|---------------------------------------|--------------|-----------------|-------------|--------------------|---------|---------------------------------------|
| | | | | NUMBER OF OCCUPANTS AND/OR FIXTURES | AREA OUTDOOR AIRFLOW RATE | PEOPLE OUTDOOR AIRFLOW RATE | REQUIRED VENTILATION OR EXHAUST (CFM) | SUPPLY CFM | OUTSIDE AIR CFM | EXHAUST CFM | EXHAUST FAN NUMBER | | SUPPLY UNIT NUMBER |
| 100 | CUSTOMER SHOWROOM | RETAIL | 777 | 12 | 0.12 CFM PER SQUARE FEET | 7.5 CFM PER PERSON | 184 | 1500 | 300 | --- | --- | RTU-1 | |
| 102 | OFFICE | OFFICE | 63 | 1 | 0.06 CFM PER SQUARE FEET | 5 CFM PER PERSON | 9 | 150 | 20 | --- | --- | RTU-1 | |
| 103 | UNISEX TOILET ROOM | TOILET ROOMS | 50 | 1 FIXTURE | 70 CFM PER FIXTURE | --- | 70 | 75 | --- | 100 | --- | EF-2 | EF-2 CONTROLLED BY TOILET ROOM LIGHTS |
| 104/105 | CLEAN UP / BREAK AREA | DINING ROOM | 143 | 4 | 0.18 CFM PER SQUARE FEET | 7.5 CFM PER PERSON | 56 | 200 | 80 | --- | --- | RTU-1 | |
| 106/107 | SHOP TOILET | TOILET ROOMS | 50 | 1 FIXTURE | 70 CFM PER FIXTURE | --- | 70 | 75 | --- | 100 | --- | EF-2 | EF-2 CONTROLLED BY TOILET ROOM LIGHTS |
| 108 | SERVICE AREA | AUTOMOTIVE SERVICE STATION | 3375 | --- | 1.5 CFM PER SQUARE FEET | --- | 5063 | --- | 5200 | 5200 | --- | EF-1 | EF-1 CONTROLLED BY CO SENSOR |
| 109 | INVENTORY | UNOCCUPIED | 1470 | --- | --- | --- | --- | --- | --- | --- | --- | --- | UNOCCUPIED - NO REQUIREMENT |
| 110/111 | USED INVENTORY/ UTILITY AREA | UNOCCUPIED | 182 | --- | --- | --- | --- | --- | --- | --- | --- | --- | UNOCCUPIED - NO REQUIREMENT |
| | TOTAL | | --- | | | | 5452 | 2000 | 5600 | 5400 | | | |

AIR DISTRIBUTION DEVICE SCHEDULE

| MARK | TYPE | MANUFACTURER | MODEL # | FACE | STYLE | BORDER TYPE | FINISH |
|------|----------|--------------|---------|-------|----------|------------------------|-------------------------------|
| S-1 | SUPPLY | AES | ADB-1 | 6x12 | DROP BOX | DUCT MOUNT | PAINT PER ARCHITECTURAL PLANS |
| S-2 | SUPPLY | TITUS | 300RL | 20x8 | LOUVERED | DUCT MOUNT | PAINT PER ARCHITECTURAL PLANS |
| S-3 | SUPPLY | TITUS | TMS | 12x12 | LOUVERED | SURFACE MOUNT (TYPE 1) | PAINT PER ARCHITECTURAL PLANS |
| T-1 | TRANSFER | TITUS | 350RL | 20x8 | LOUVERED | SURFACE MOUNT (TYPE 1) | PAINT PER ARCHITECTURAL PLANS |
| E-1 | EXHAUST | TITUS | 350 | 12x12 | LOUVERED | SURFACE MOUNT (TYPE 1) | PAINT PER ARCHITECTURAL PLANS |

ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED):
 * KRUEGER * TUTTLE & BAILEY
 * MESTEK * GARNES

NOTES:
 - ROUND CONNECTION TO MATCH ROUND DUCT DIMENSION AS SHOWN ON FLOOR PLAN.
 - SUPPLY AND RETURN AIR DIFFUSERS SHALL BE SELECTED AT A MAX NOISE CRITERIA OF 30.

GAS FIRED UNIT HEATER SCHEDULE

| TAG | AREA SERVING | MFR. | MODEL | MBH INPUT | MBH OUTPUT | AFUE | WEIGHT | FLA | MOCP | PHASE | VOLTS |
|------|--------------|--------|--------|-----------|------------|------|--------|-----|------|-------|-------|
| UH-1 | INVENTORY | REZNOR | UDAS30 | 30 | 26.4 | 82 | 456 | 1.9 | 15 | 1 | 115 |
| UH-2 | UTILITY AREA | REZNOR | UDAS30 | 30 | 26.4 | 82 | 456 | 1.9 | 15 | 1 | 115 |

ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED):
 * STERLING * LENNOX
 * MODINE

NOTES:
 1. UNIT SHALL BE COMPLETE WITH CONTROL TRANSFORMER RELAY PACKAGE, 24V REVERSE ACTING THERMOSTAT WITH NIGHT SETBACK.
 2. PROVIDE SHUTOFF COCK AT EACH BURNER.
 3. UNIT TO HAVE VERTICAL VENT TERMINAL AND CONCENTRIC DAMPER.
 4. VIBRATION ISOLATION HANGER RODS OR APPROVED EQUIVALENT.

GAS FIRED STRAIGHT TUBE RADIANT HEATER SCHEDULE

| TAG | MANUFACTURER | MODEL | INPUT MBH | GAS CONNECTION | ELECTRICAL DATA | | | | TUBE TYPE | TUBE LENGTH |
|--------|---------------|-------|-----------|----------------|-----------------|-------|------------|----------|-----------|-------------|
| | | | | | VOLTS | PHASE | START DRAW | RUN DRAW | | |
| RAD-23 | RE-VERBER-RAY | ETS75 | 75 | 1/2" Ø | 120 | 1Ø | 3.0 AMP | 2.6 AMP | STRAIGHT | 20 FT |

ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED):
 * DETROIT RADIANT PRODUCTS / RE-VERBER-RAY
 * ROBERTS / GORDON, INC.

NOTES:
 1. HEATERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. EACH HEATER SHALL BE CONTROLLED BY A MANUFACTURER SUPPLIED NIGHT SETBACK DIGITAL THERMOSTATS, MOUNTED 4'-0" ABOVE THE FINISHED FLOOR. SEE MECHANICAL PLAN FOR LOCATIONS.
 3. HEATERS SHALL BE "PULL (NEGATIVE PRESSURE OR VACUUM) THROUGH" SYSTEMS WITH CAST IRON BURNERS AND CALORIZED EMITTER TUBES (ALC OPTION). THE EMITTER TUBES SHALL BE CALORIZED FOR LONGEVITY, CORROSION RESISTANCE AND HIGH RADIANT EFFICIENCY. **HOT ROLLED EMITTER TUBES ARE NOT ALLOWED.**
 4. HEATERS SHALL OPERATE UNDER A NEGATIVE PRESSURE AT ALL TIMES TO PRECLUDE THE ESCAPE OF COMBUSTION GASSES INSIDE OF THE BUILDING.
 5. UNIT TO BE SHUT OFF WHEN TOX ALERT IS ACTIVATED. (BY C.O. SENSOR.)
 6. HEATERS SHALL BE FURNISHED WITH END REFLECTORS (2 - PAIRS).

GAS FIRED ROOFTOP UNIT SCHEDULE

| TAG | MFR | MODEL | NOMINAL TON | ENTERING AIR CONDITIONS | ARI SEER | SUPPLY CFM | RETURN CFM | O.A. CFM | TOTAL S.P. | FAN MOTOR HP | GAS MBH | | ELECTRICAL DATA | | | | WT. |
|-------|--------|--------|-------------|-------------------------------------|----------|------------|------------|----------|------------|--------------|---------|--------|-----------------|-------|------|------|------|
| | | | | | | | | | | | INPUT | OUTPUT | VOLTS | PHASE | FLA | MOCP | |
| RTU-1 | LENNOX | KGB060 | 5 | 75.0°F DB 63.1°F WB @ 105°F AMBIENT | 14.0 | 2000 | 1600 | 400 | 0.8 | 3/4 | 108 | 86 | 208 | 3Ø | 20.8 | 35 | 1000 |

ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED):
 * CARRIER * YORK
 * TRANE

NOTES:
 1. MECHANICAL UNIT SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. PROVIDE UNIT WITH UNPOWERED GFCI CONVENIENCE OUTLET.
 3. INSTALL NEW FILTERS IN UNIT AFTER ALL DUCTWORK HAS BEEN COMPLETED AND PRIOR TO TEST AND BALANCING OF UNIT.
 4. PROVIDE WITH DIFFERENTIAL ENTHALPY TYPE ECONOMIZER WITH BAROMETRIC RELIEF DAMPER.
 5. PROVIDE UNIT WITH 14" HIGH ROOF CURB WITH SECURITY BARS.
 6. PROVIDE UNIT WITH FACTORY INSTALLED HINGED ACCESS PANELS.
 7. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
 8. PROVIDE WITH FACTORY MOUNTED SUPPLY AND RETURN AIR SMOKE DETECTORS.

EXHAUST FAN SCHEDULE

| TAG | DESCRIPTION | MFR. | MODEL | CFM | ESP. HP / WATER | MOTOR PHASE | VOLTS | NOTES |
|------|--------------------------|------|------------|-----|-----------------|-------------|-------|-----------|
| EF-1 | SERVICE AREA EXHAUST FAN | COOK | ACE-210C9B | 200 | 1.0 | 3 | 208 | 1.2,4,5,6 |
| EF-2 | TOILET EXHAUST FAN | COOK | FOC3 | 200 | 0.25 | 1 | 115 | 1.3,5,6 |

ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED):
 * GREENHECK * PENN

NOTES:
 1. PROVIDE WITH 14" ROOF CURB, BACKDRAFT DAMPER AND BIRD SCREEN.
 2. ALL THREE PHASE EXHAUST FANS ARE TO BE COMPLETE WITH COMBINATION MAGNETIC MOTOR STARTER, PROVIDED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 3. INTERLOCK WITH TOILET ROOM LIGHTING. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
 4. ALL EXHAUST FANS TO BE PROVIDED WITH TOXALERT C.O. SENSOR, MOUNT FAN AS HIGH AS POSSIBLE.
 5. ALL DISCONNECTS TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
 6. ALL SWITCHES, INTERLOCKS, RELAYS, TRANSFORMERS, TIMECLOCKS, ETC., SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL PLANS.

ROOF HOOD SCHEDULE

| TAG | DESCRIPTION | MFR. | MODEL | CFM | NECK SIZE (IN) | DAMPER | | | NOTES | |
|------|----------------------------|------|---------|------|----------------|--------|-------|-------|-------|-----------|
| | | | | | | HP | PHASE | VOLTS | | |
| RH-1 | TOX ALERT INTAKE ROOF HOOD | COOK | 24x36GI | 5200 | 24 x 36 | FRAC. | 1 | 115 | --- | 1.2,3,4,5 |

ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED):
 * GREENHECK

NOTES:
 1. PROVIDE WITH BIRD / INSECT SCREEN.
 2. PROVIDE WITH 120 VOLT MOTORIZED DAMPER INTERLOCKED WITH EF-1.
 3. ALL MOTORIZED DAMPERS SHALL BE WIRED TO BE OPEN WHEN CORRESPONDING EQUIPMENT IS ENERGIZED.
 4. ALL DAMPERS SHALL DEFAULT TO SPRING SHUT WHEN POWER LOSS OCCURS OR WHEN NOT IN USE.
 5. PROVIDE WITH MANUFACTURER'S 14" ROOF CURB.

ELECTRIC UNIT HEATER SCHEDULE

| TAG | AREA SERVING | MFR. | MODEL | BTUH | MOUNTING | ELECTRICAL DATA | | | | NOTES |
|-------|----------------|-------|---------|--------|------------|-----------------|-------|---|------|-------|
| | | | | | | KW | VOLTS | Ø | AMPS | |
| EUH-1 | FIRE/SPRINKLER | QMARK | AWH4404 | 10,235 | WALL MOUNT | 3 | 208 | 1 | 14.4 | 1.2,3 |

NOTES:
 1. PROVIDE FACTORY INSTALLED DISCONNECT SWITCH.
 2. UNIT TO BE CONTROLLED BY THERMOSTAT IN FIRE RISER ROOM.
 3. PROVIDE WITH RECESS MOUNTING ENCLOSURE.

Order Plans

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1762 STATE RD
SUMMERVILLE, SC



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| ISSUE BLOCK | 01/06/20 | REV #1 |
| PROPERTY NO.: | 317910 | |
| 6 DIGIT NO.: | 798862 | |
| 4 DIGIT NO.: | 013K | |
| AOR PROJECT NUMBER: | 1955867 | |
| TO PERMIT DATE: | 12-20-19 | |
| TO BID DATE: | ##-##-## | |
| SHEET TITLE: | MECHANICAL EQUIPMENT SCHEDULES | |
| SHEET NUMBER: | M3 | |