

### GENERAL NOTES:

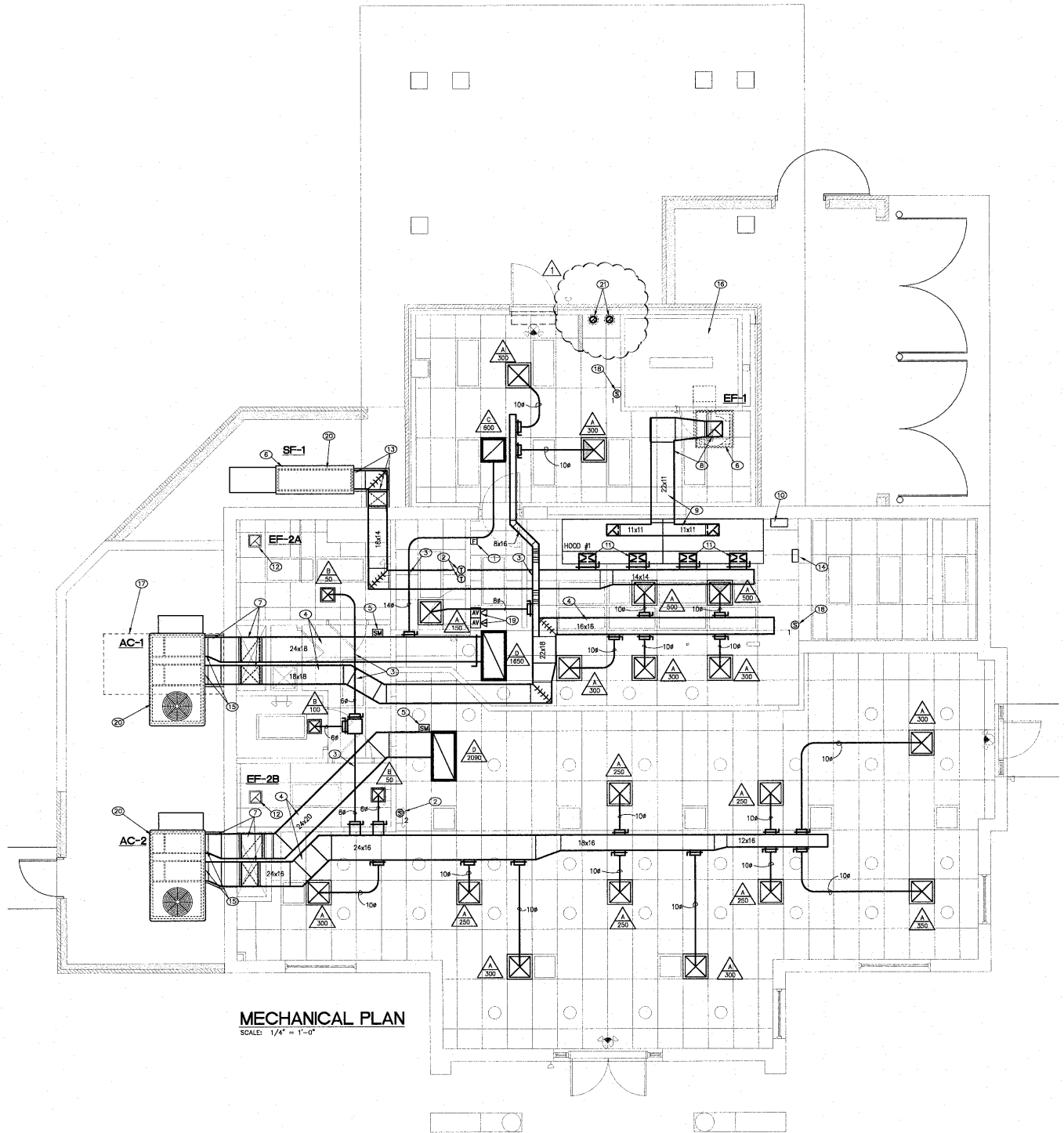
- SEE SHEET M1 FOR OTHER GENERAL NOTES, EQUIPMENT SCHEDULES, AND SYMBOL LEGEND.
- COORDINATE ALL ROOF TOP EQUIPMENT WITH GENERAL CONTRACTOR, PLACE NEW ROOF TOP EQUIPMENT AS CLOSE AS POSSIBLE AS SHOWN ON PLAN. MAKE ADJUSTMENTS FOR ROOF STRUCTURE, ENSURE EXHAUST OUTLETS ARE 10' (MIN.) AWAY FROM OUTSIDE INTAKES ON EXISTING RTU'S AND MAKE-UP AIR FAN.
- ALL DUCTWORK SHALL BE RUN ABOVE THE FINISHED CEILING AND BETWEEN JOIST OR AS TIGHT TO THE JOISTS AS POSSIBLE UNLESS OTHERWISE NOTED.
- M.C. SHALL PROVIDE REQUIRED TRANSITION FROM SUPPLY AND RETURN AIR RISER TO CORRESPONDING OPENINGS IN UNIT/FAN, PROVIDE VIBRATION DAMPER IN SUPPLY AND RETURN RISERS.
- M.C. SHALL ADJUST OUTER BLADES FOR A 45° HORIZONTAL SPREAD. ADJUST INNER BLADES FOR A 20° DOWNWARD THROW ON ALL SIDEWALL/DUCT MOUNTED REGISTERS.

### CONSTRUCTION NOTES:

- MECHANICAL CONTRACTOR (M.C.) SHALL INSTALL MANUAL FIRE PULL AT 54" A.F.F. AND AT LOCATION SHOWN. ENSURE FIRE PULL LOCATED BETWEEN 10 AND 20 FEET FROM COOKING EQUIPMENT WHICH IT SERVES OR IS LOCATED AS DIRECTED BY LOCAL INSPECTOR. M.C. SHALL LABEL (FOR EASY IDENTIFICATION) THE FIRE PULL FOR CORRESPONDING HOODS NUMBER SHOWN ON PLAN.
- M.C. SHALL INSTALL SENSORS @ 48" A.F.F. AS SHOWN OR AS DIRECTED BY OWNER REPRESENTATIVE. E.C. SHALL PROVIDE J-BOX AS REQUIRED (MASTER THERMOSTATS SHALL BE LOCATED IN THE OFFICE). M.C. SHALL LABEL EACH FOR EASY IDENTIFICATION.
- ROUTE BRANCH DUCTS OVER MAIN AIR DUCTWORK IN TRUSS SPACE AS SHOWN.
- ROUTE MAIN DUCT AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED.
- M.C. SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS IN THE RETURN DUCTWORK OF EACH UNIT. VERIFY REQUIREMENTS WITH LOCAL AUTHORITIES. ACCESS SHALL BE PROVIDED FOR INSPECTION AND MAINTENANCE. CONNECT TO AUDIO/VISUAL ALARM INDICATORS.
- M.C. SHALL INSTALL KITCHEN EXHAUST/MJA FANS IN LOCATION SHOWN. DUCTWORK SHALL BE PROVIDED AND INSTALLED BY M.C. TO MEET ALL LOCAL AND STATE CODE REQUIREMENTS, SEE DET. 6/MJ3 AND "H" SHEETS PROVIDED BY OTHERS, COORDINATE WITH G.C.
- ROUTE NEW RETURN AND SUPPLY AIR DUCT DOWN EXISTING/NEW CHASE AS TO NEW UNITS AS SHOWN. M.C. SHALL WRAP ALL DUCTWORK WITH EXTERIOR GRADE INSULATION, THEN COVER THE INSULATED DUCTWORK WITH ALUMINUM SEALED WEATHER TIGHT AND FLASHED TO EXISTING WALL (FLASHING PROVIDED BY G.C.)
- TRANSITION NEW 22"x11" EXHAUST DUCT TO 15"x15" AND ROUTE UP TO NEW EXHAUST FAN EF-1.
- ROUTE BLACK IRON EXHAUST DUCTWORK FROM HOOD #1 TO EXHAUST FAN AS SHOWN AS HIGH AS POSSIBLE WITH A MINIMUM SLOPE. SEE DETAIL 6/MJ3 FOR DUCT INSTALLATION AND FIRE PROTECTION SHIELDING REQUIREMENTS. SEE "H" SHEETS FOR FINAL CONNECTION TO EXHAUST FAN.
- M.C. SHALL MOUNT ANSUL CABINET IN LOCATION SHOWN AS HIGH AS POSSIBLE (PROVIDED BY HOOD MANUFACTURER).
- M.C. SHALL ROUTE 16"x8" MJA BRANCH AND TURN DOWN TO 16"x6" HOOD CONNECTIONS ON HOOD BELOW.
- EXISTING TOILET EXHAUST FANS ARE TO BE REUSED. M.C. SHALL REMOVE EXISTING EXHAUST FANS AND SAFE GUARD UNTIL NEW CEILING HAS BEEN INSTALLED. REINSTALL EXHAUST FANS IN EXISTING LOCATION, RECONNECT TO EXISTING POWER AND DUCTWORK. M.C. SHALL CLEAN, INSPECT AND REPAIR ANY WORN PARTS THAT WOULD HINDER PERFORMANCE OF EXISTING EXHAUST FAN.
- M.C. SHALL ROUTE NEW MAKE-UP AIR DUCT FROM BACK OF SF-1 (TRANSITION TO 18"x14"), TURN AND ROUTE UP EXIST WALL, PENETRATE EXISTING WALL AS HIGH AS POSSIBLE. WRAP EXPOSED DUCT WITH ALUMINUM WRAP (SEALED WEATHER TIGHT). G.C. SHALL PROVIDE OPENING.
- M.C. SHALL INSTALL HOOD CONTROL PANEL IN LOCATION WITH SWITCHES AT 48" A.F.F. (PROVIDE BY HOOD MANUFACTURER).
- TRANSITION SUPPLY AND RETURN AIR RISERS AS REQUIRED TO CONNECT TO UNIT OPENINGS, REFER TO MANUFACTURER'S SPECIFICATIONS.
- WALK-IN COOLER (582.1 FT<sup>3</sup>) REQUIRES 3.25 LBS. OF R-22 REFRIGERANT WHICH IS 0.0058 LBS R-22/FT<sup>3</sup>. NCMC 2000 ALLOWS UP TO 0.0084 LBS R-22/FT<sup>3</sup>.
- REMOVE EXISTING AC UNIT AND DISCARD PROPERLY.
- M.C. SHALL INSTALL AVERAGING SENSORS @ 48" A.F.F. FOR UNIT AC-1 SHOWN. E.C. SHALL PROVIDE J-BOX AS REQUIRED. M.C. SHALL LABEL EACH AVERAGING SENSOR FOR EASY IDENTIFICATION WITH THE UNIT NUMBER SHOWN ON PLAN. CONNECT AS REQUIRED FOR AVERAGING TEMPERATURES.
- M.C. SHALL PROVIDE AUDIO/VISUAL ALARM INDICATOR FOR RTU SMOKE DETECTORS.
- MOUNT NEW UNIT/FAN ON CURB PROVIDED BY MANUFACTURER ON CONCRETE SLAB.
- M.C. SHALL PROVIDE #16 GALVANIZED STEEL DOUBLE WALL (TYPE "B") TRUE PIPE FROM EACH WATER HEATER UP THROUGH ROOF TO ROOF CAP (TERMINATE 24" ABOVE ROOF WITH IN 10'-0" AS PER CODE). LANDLORD'S CONTRACTOR SHALL CUT NEW EXHAUST OPENING IN ROOF AT TENANT'S EXPENSE. OPENING SHALL BE NO LESS THAN 10'-0" FROM FRESH AIR INTAKE ON ROOF TOP UNITS. SEE SHEET M4.

### LEGEND

|  |   |  |   |
|--|---|--|---|
|  | SUPPLY DIFFUSER (DIFFUSER SHOWN IS A THREE-WAY WITH ONE SIDE BLOCKED) |  | MANUAL FIRE SUPPRESSION PULL STATION    |
|  | RETURN AIR GRILLE   |  | THERMOSTAT                              |
|  | EXHAUST GRILLE  |  | DUCT TYPE SMOKE DETECTOR                |
|  | TURNING VANES   |  | ROUND DUCT                              |
|  | EXHAUST RISER   |  | DIFFUSER SYMBOL SEE SHEET M1 FOR SCHED. |
|  | WALL MOUNTED SUPPLY AIR REGISTER                                      |  | AIRFLOW (CFM)                           |
|  | BRANCH DUCT, TWIST-LOK & ELBOW (ROUND) WITH VOLUME DAMPER             |  |   |
|  | BRANCH DUCT, TAKE-OFF, (RECT.) WITH VOLUME DAMPER                     |  |   |
|  | EXPOSED SPIRAL DUCT   |  |   |
|  | M.C. MECHANICAL CONTRACTOR  |  |   |
|  | G.C. GENERAL CONTRACTOR   |  |   |
|  | P.C. PLUMBING CONTRACTOR  |  |   |
|  | E.C. ELECTRICAL CONTRACTOR  |  |   |
|  | R.C. REFRIGERANT CONTRACTOR   |  |   |



**MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"



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**FIVE GUYS**  
**FAMOUS BURGERS AND FRIES**  
Location: 776 SE MAINWAY ROAD  
CARY, NORTH CAROLINA  
Drawing: MECHANICAL PLAN

**FIVE GUYS**  
**FAMOUS BURGERS and FRIES**

### Revisions

| NO. | DATE   | DESCRIPTION  |
|-----|--------|--------------|
| 1   | 8/9/06 | QTY COMMENTS |

PROJECT DATE: 6/26/06  
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