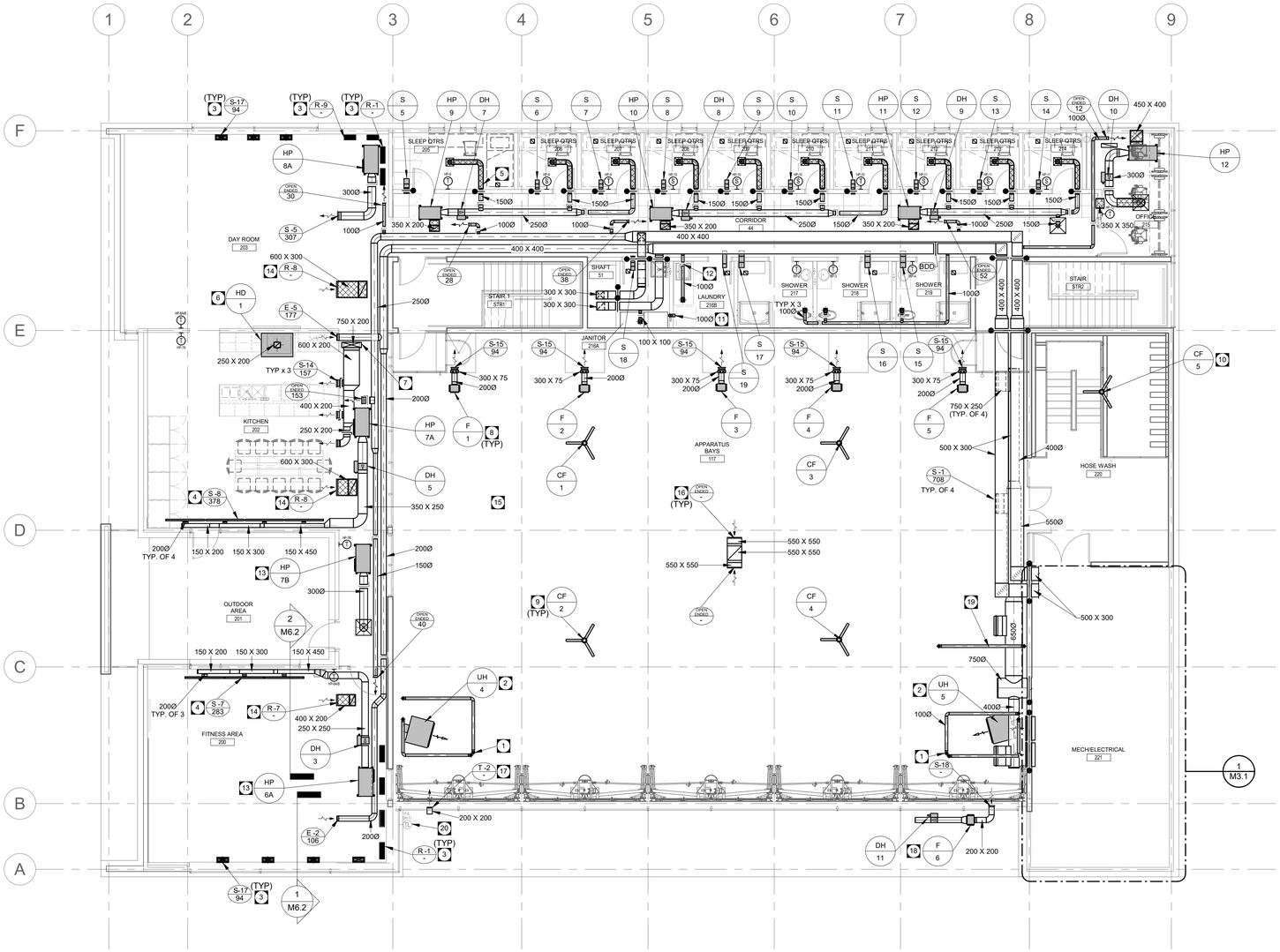

1 / MH2.2 SECOND FLOOR PLAN - HVAC
SCALE: 1 : 96

KEY NOTES

1. UP TO CONCENTRIC ROOF VENT KIT.
2. SUPPORT OFF MASONRY WALL USING STEEL STRUT CHANNEL OR FABRICATED STEEL BRACKETS. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. REFER TO ARCHITECTURAL FOR EXACT POSITION AND ELEVATION.
3. PROVIDE GRILLE IN FLOOR. REFER TO MAIN FLOOR PLAN.
4. PROVIDE CONTINUOUS LINEAR SLOT SUPPLY AIR DIFFUSER FLUSH WITH UNDERSIDE OF BULKHEAD. PROVIDE SLOT DIFFUSER PLENUMS WITHIN BULKHEAD. BALANCING DAMPERS INTEGRATED IN SLOT DIFFUSER PLENUMS. REFER TO SCHEDULE AND SPEC.
5. ACOUSTICALLY INSULATE DUCT(S) ABOVE ROOM WHERE SHOWN.
6. PROVIDE KITCHEN EXHAUST HOOD WITH FIRE SUPPRESSION SYSTEM ACCORDING TO SPECIFICATIONS AND DETAILS. PROVIDE CONTROLLER FOR KITCHEN EXHAUST HOOD MAKE-UP AIR / EXHAUST AND CONTROLLER FOR EXHAUST HOOD FIRE SUPPRESSION SYSTEM ON KITCHEN WALL BELOW HOOD. REFER TO ARCHITECTURAL SECTION VIEW.
7. DUCT UP TO MAKE UP AIR UNIT ON ROOF.
8. PROVIDE FAN, SUSPENDED FROM ROOF STRUCTURE BETWEEN OWSJ'S AT UNDERSIDE OF ROOF DECK, TO VENTILATE SKYLIGHT. REFER TO HVAC DETAIL AND ARCHITECTURAL DETAIL.
9. PROVIDE ONE BI-DIRECTIONAL SPEED CONTROLLER IN SERIES WITH ONE 60 MINUTE TWIST TIMER WITH HOLD FOR ALL FOUR FANS IN APPARATUS BAYS. LOCATE CONTROLLER ON WALL WITH DOOR CONTROLS. MOUNT CEILING FAN TO UNDERSIDE OF OWSJ.
10. PROVIDE A BI-DIRECTIONAL SPEED CONTROLLER IN SERIES WITH ONE 60 MINUTE TWIST TIMER WITH HOLD FOR FAN. LOCATE CONTROLLER ON WALL NEXT TO LIGHTING CONTROLS IN HOSE WASH ROOM BELOW.
11. PROVIDE DRYER VENT DUCT THROUGH WALL UP TO GOOSENECK ON ROOF. PROVIDE INLINE DRYER LINT TRAP WITH ACCESS DOOR IN WALL. GOOSENECK TO BE MINIMUM 1000MM ABOVE ROOF LEVEL.
12. LOCATION OF BALANCING DAMPER SHOWN SCHEMATICALLY. LOCATE DAMPER ABOVE CORRIDOR.
13. POSITION HEAT PUMP IN BULKHEAD BETWEEN 610MM DEEP GLULAM BEAMS RUNNING EAST-WEST.
14. PROVIDE ACOUSTICALLY INSULATED RETURN AIR DUCT WITH UPTURNED OPEN END IN BULKHEAD, MINIMUM 900 MM TOTAL LENGTH.
15. VEHICLE EXHAUST SYSTEM FANS, DUCTWORK, DROPS, AND CONTROLS TO BE DESIGNED, SUPPLIED, AND INSTALLED BY THE CITY.
16. PROVIDE TWO HORIZONTAL OPEN ENDED EXHAUST DUCT OPENINGS WITH 13 MM BIRDSCREEN AT UNDERSIDE OF ROOF DECK.
17. PROVIDE TRANSFER AIR GRILLE ON FACE OF WALL PARTITIONING APPARATUS BAYS FROM SOFFIT OVERHANG CAVITY. PROVIDE DUCT THROUGH WALL TO TRANSFER AIR OUT OF SOFFIT CAVITY.
18. PROVIDE INTAKE GRILLE ON FACE OF WALL PARTITIONING APPARATUS BAYS FROM SOFFIT OVERHANG CAVITY. SUSPEND FAN FROM ROOF STRUCTURE WITHIN CAVITY WITH BIRDSCREEN ON FAN INTAKE. REFER TO ARCH FOR ACCESS DOOR.
19. PROVIDE 100MM PVC OUTDOOR AIR INTAKE PIPE FOR COMPRESSOR ACCORDING TO MANUFACTURER'S INSTRUCTIONS. TERMINATE PIPE WITHIN 5 FEET OF COMPRESSOR INLET.
20. ELECTRICAL TO PROVIDE LINE VOLTAGE THERMOSTAT MOUNTED ON WALL IN SOFFIT CAVITY. LOCATE THERMOSTAT WITHIN REACH OF WALL ACCESS DOOR. THERMOSTAT TO ACTIVE FAN AND DUCT HEATER WHENEVER CAVITY SPACE TEMP FALLS BELOW 15C.

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Project
WFPS STATION 9

1083 AUTUMNWOOD DRIVE

Sheet Title
SECOND FLOOR - HVAC PLAN

Project No. 22028

Sheet MH2.2

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