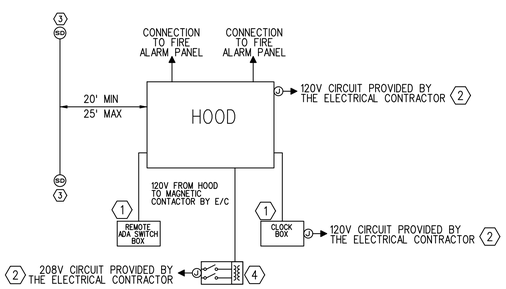
GENERAL NOTES

1. NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
2. ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED ALL WIRING SHALL BE 2 #12 AWG AND 1 #12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A–1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG.
3. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
4. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
5. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
6. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
7. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.
8. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
9. COMPLY WITH REQUIREMENTS ASME A17.1 AND NFPA 72.
10. AUDIBLE ALARM Db LEVELS SHALL COMPLY WITH NFPA 72.
11. WHERE FIRE SMOKE DAMPERS ARE PRESENT AT FIRE RATED WALL PENETRATIONS PROVIDE INTERFACE WITH FIRE ALARM CONTROL PANEL. WHERE ADDITIONAL POWER IS REQUIRED CIRCUIT TO A SPARE CIRCUIT BREAKER IN THE NEAREST AVAILABLE PANELBOARD.
12. PROVIDE INTERFACE BETWEEN DUCT SMOKE DETECTORS FOR SUPPLY AND EXHAUST FOR MECHANICAL ITEMS AND FIRE ALARM CONTROL PANEL AS NECESSARY. VERIFY THAT EACH MECHANICAL UNIT REQUIRES DUCT SMOKE DETECTORS. COORDINATE INSTALLATION WITH OWNER.
13. PROVIDE TELEPHONE LINES AND CONNECTIONS AND KNOX BOXES (QUANTITIES AND LOCATIONS TO BE DETERMINED) AS REQUIRED. COORDINATE REQUIREMENTS, LOCATIONS AND QUANTITIES WITH LOCAL AUTHORITY HAVING JURISDICTION.
14. PROVIDE ADDRESSABLE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO INITIATING DEVICES, NOTIFICATION DEVICES, JUNCTION BOXES, CONDUIT AND WIRING, REMOTE POWER SUPPLIES, RELAY INTERFACES AND REMOTE ANNUNCIATOR PANELS.
15. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS OTHERWISE NOTED.
16. CONNECT EMERGENCY AND EXIT LIGHTS TO THE NEAREST LIGHTING CIRCUIT AHEAD OF SWITCHING.
17. TEST ALL EMERGENCY LIGHTING FOR PROPER OPERATION OF LAMPS AND BATTERIES.

SYMBOL LEGEND

- FACP — FIRE ALARM CONTROL PANEL
- FAPS — FIRE ALARM REMOTE POWER SUPPLY
- ANN — FIRE ALARM ANNUNCIATOR PANEL
- 30cd F — FIRE ALARM AUDIO/VISUAL, MOUNT 6'–8"AFF, NUMBER DENOTES CANDELA RATING, EX DENOTES EXISTING TO REMAIN
- 15cd S — FIRE ALARM VISUAL STROBE ONLY, FLUSH MOUNT 6'–8" AFF, NUMBER DENOTES CANDELA RATINGS
- F — FIRE ALARM PULL STATION, MOUNT 48"AFF, EX DENOTES EXISTING TO REMAIN
- SD CO — SYSTEM CONNECTED SMOKE / CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE
- 135° HD — SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- SD — SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED.
- M — MAGNETIC DOOR HOLD
- J — JUNCTION BOX
- ER SD — SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED. "ER" DENOTES ELEVATOR RECALL
- CO — CARBON MONOXIDE DETECTOR
- SD — DUCT SMOKE DETECTOR & TEST STATION
- KB — FIRE ALARM KNOX BOX
- FD/SD — FIRE/SMOKE DAMPER, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING CONNECTIONS AND FIRE ALARM DUCT SMOKE DETECTORS, ADDRESSABLE MODULES AND PROGRAMMING.
- F — SPRINKLER SYSTEM FLOW SWITCH
- T — SPRINKLER SYSTEM TAMPER SWITCH
  (F and T: EXISTING TO REMAIN, CONNECT TO SILENT NIGHT FIRE ALARM CONTROL PANEL)
- UNIVERSAL MOUNTED EXIT LIGHT FIXTURE, DIRECTIONAL ARROWS AS INDICATED
- WALL MOUNTED SELF CONTAINED EMERGENCY

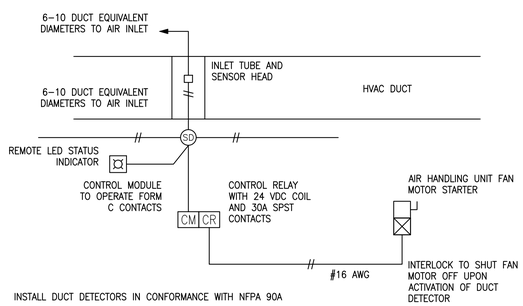
* NOT ALL SYMBOLS INDICATED IN LEDGEND APPEAR ON DRAWINGS. COORDINATE WORK ACCORDINGLY.



LIGHT COMMERCIAL HOOD FIRE ALARM INTERFACE WIRING DIAGRAM

SCALE: NONE

1. EQUIPMENT AND CONNECTING WIRING PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. REFER TO DRAWINGS AND PANEL SCHEDULES FOR PANEL, CIRCUIT NUMBERS AND BREAKER SIZING.
3. NOT LESS THAN TWO AC POWERED PHOTOELECTRIC SMOKE ALARMS WITH BATTERY BACKUP, INTERCONNECTED IN ACCORDANCE WITH 9.6.2.10.3, AND EQUIPPED WITH A SILENCE FEATURE ARE LOCATED NOT CLOSER THAN 20FT (6.1m) AND NOT FURTHER THAN 25' (7.6m) FROM THE COOKTOP OR RANGE.
4. ELECTRICAL CONTRACTOR TO CONNECT APPLIANCE TO ELECTRICAL DISCONNECT BOX PROVIDED WITH HOOD. COORDINATE WIRING AND INSTALLATION WITH MECHANICAL CONTRACTOR AND HOOD MANUFACTURER PRIOR TO ROUGH IN.



INSTALL DUCT DETECTORS IN CONFORMANCE WITH NFPA 90A

PROVIDE SINGLE DUCT DETECTOR FOR HVAC UNITS SIZED 2000–15000 CFM
PROVIDE DUCT DETECTORS IN BOTH SUPPLY AND RETURN DUCTS FOR HVAC UNITS SIZED ABOVE 15000 CFM

DUCT DETECTOR FIRE ALARM INTERFACE WIRING DIAGRAM

SCALE: NONE

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Date: Jan. 23rd, 2018
Scale: NTS

LIFE SAFETY NOTES & DETAILS

LS2.1