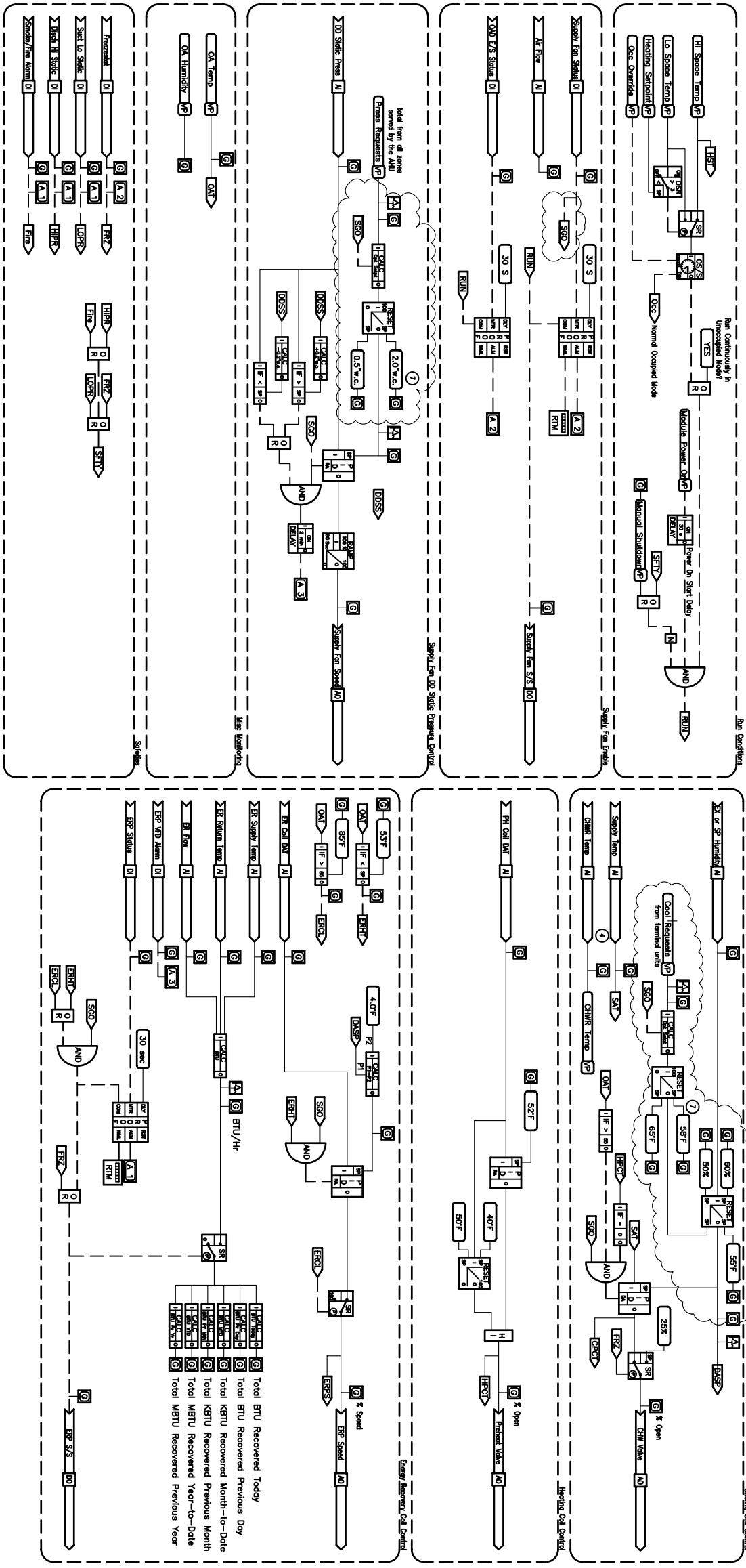


100% OA VAV AH WITH PREHEAT & CHW COIL

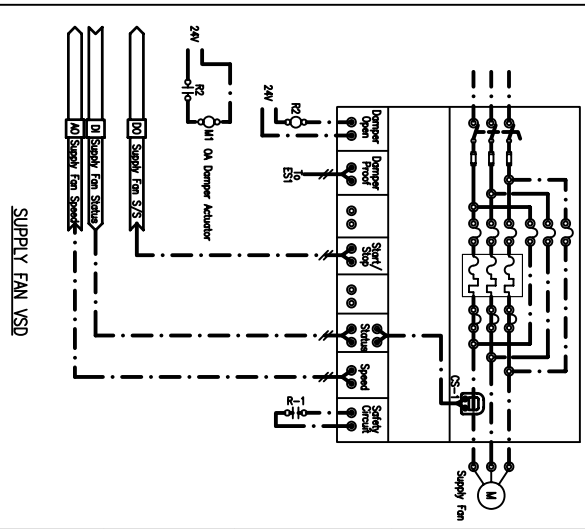


| POINTS LIST | | | | | | |
|-------------|-------------------|------------|----|----|----|-----------------|
| ADDRESS | POINT DESCRIPTION | POINT TYPE | | | | REMARKS |
| | | DI | AI | DO | AO | |
| | Supply Fan S/S | | * | | | |
| | Supply Fan Status | | | | * | |
| | Supply Fan Speed | | | | | |
| | ID Static Press | | * | | | |
| | Supply Temp | | | | | |
| | Air Flow | | * | | | |
| | Disch HI Static | | * | | | |
| | Suct Lo Static | | * | | | |
| | PH Coil DAT | | | | | |
| | Freezestat | | * | | | |
| | QAO E/S Status | | * | | | |
| | FR Coil DAT | | * | | | |
| | CHW Valve | | | * | | |
| | HW Valve | | | * | | |
| | CR Pump S/S | | * | | | See Note 5 |
| | Cts Pump Status | | * | | | See Note 5 |
| | Smoke/Fltr Alarm | | | | | Interlock Point |
| | VFD Alarm/Fault | | | | | Interlock Point |
| | VFD Fault Code | | | | | Interlock Point |
| | VFD Snd Feedback | | | | | Interlock Point |
| | VFD kW | | | | | Interlock Point |
| | VFD in Bypass | | | | | |
| | ER Pump S/S | | * | | | |
| | ER Pump Status | | * | | | |
| | ERP VFD Alarm | | * | | | * |
| | ERP Speed | | | | | |
| | ER Supply Temp | | | | * | |
| | ER Return Temp | | | | * | |
| | ER Flow | | | | * | |
| | CHW Return Temp | | | | * | |
| | Ex or SP Humidity | | | | * | |

LOGIC VARIABLES

| BINARY | ANALOG | DESCRIPTION |
|---------|--------|---|
| [LOG] | | ON WHEN OCCUPIED MODE ACTIVE |
| [RUN] | | ON WHEN UNIT COMMANDS TO START |
| [SGO] | | ON WHEN SUPPLY FAN ENERGIZED AND STATUS PROVEN |
| [HIER] | | ON WHEN HIGH STATIC PRESSURE SWITCH IS IN ALARM |
| [LOPR] | | ON WHEN LOW STATIC PRESSURE SWITCH IS IN ALARM |
| [FRZ] | | ON WHEN FREEZE/STAIR IS IN ALARM |
| [Fire] | | ON WHEN FIRE ALARM IS ACTIVE |
| [SVTV] | | ON WHEN ANY UNIT SHUTDOWN SAFETY IS ON |
| [HST] | | VARIABLE COULDAED VALUE OF HIGHEST SPACE TEMPERATURE |
| [OAT] | | VARIABLE VALUE OF OUTSIDE AIR TEMPERATURE |
| [SAT] | | VARIABLE VALUE OF SUPPLY AIR TEMPERATURE |
| [PHI] | | VARIABLE VALUE OF PRESENT AIR TEMPERATURE |
| [OCCT] | | VARIABLE COULDAED VALUE OF CHW VALVE POSITION |
| [HHCT] | | VARIABLE COULDAED VALUE OF HW VALVE POSITION |
| [DOSS] | | VARIABLE COULDAED VALUE OF DOWN DUCT STATIC PRESSURE SETPOINT |
| [EPR-S] | | VARIABLE COULDAED VALUE OF ENERGY RECOVERY PUMP SPEED |
| [ERHI] | | ON WHEN ENERGY RECOVERY SYSTEM ENGAGED IN HEATING MODE |
| [ERCL] | | ON WHEN ENERGY RECOVERY SYSTEM ENGAGED IN COOLING MODE |
| | | |
| | | |
| | | |
| | | |

ELECTRIC LADDER DIAGRAMS



SAFETY INTERLOCK DETAIL