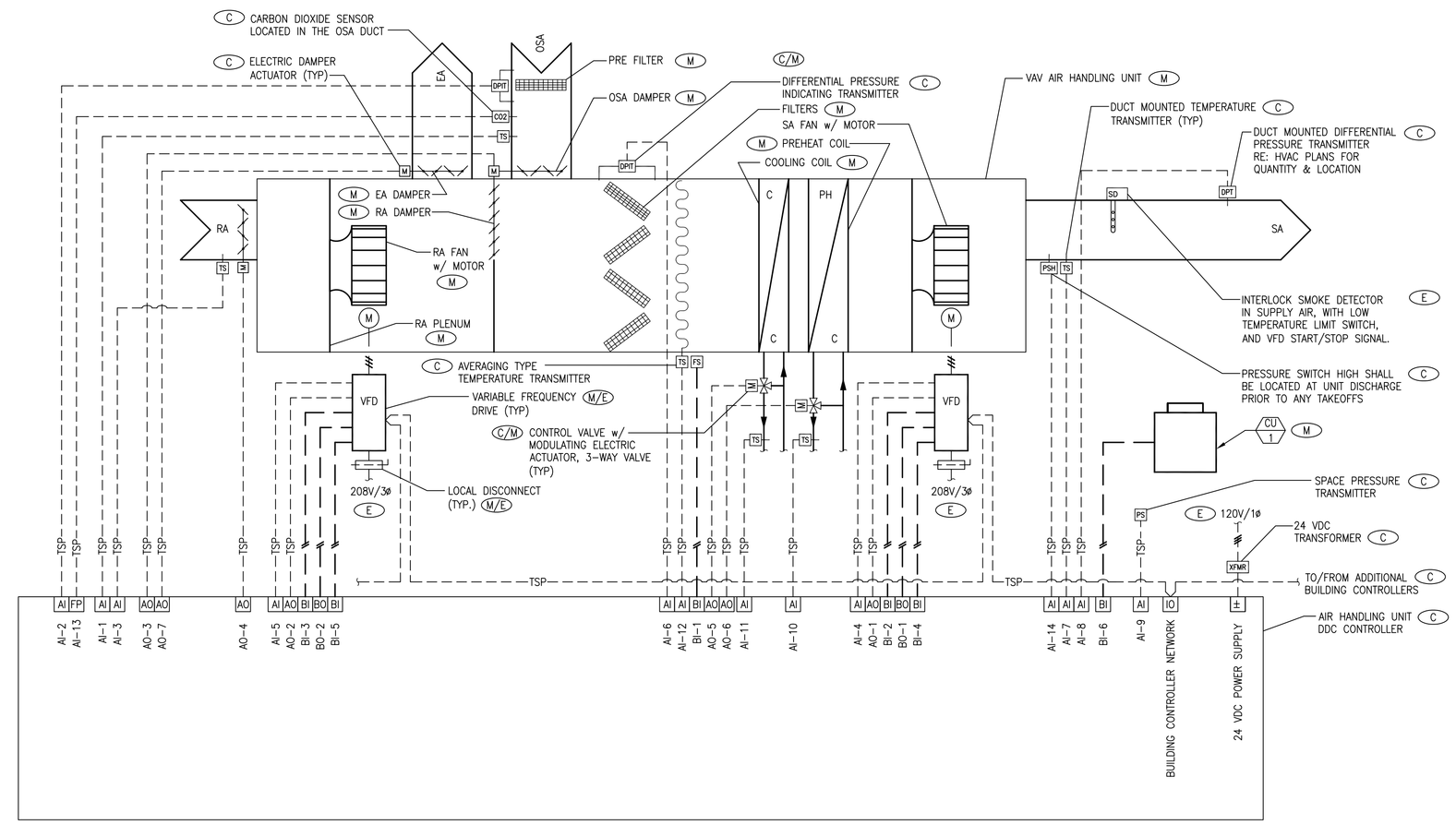
JOB: 531-10-114
BUILDING: 33

PAGE:

SYSTEM: VAV AIR HANDLER UNIT

| SYSTEM COMPONENT: | POINT ID | ABBREVIATION | POINT LEGEND: POINT ABC-ALPHANUMERIC REF. | POINT LEGEND: SYSTEM ABC-ALPHANUMERIC REF. | POINT LEGEND: OPERATIONS | SYSTEM OUTPUTS: BINARY: DRAFT CONTROL | SYSTEM OUTPUTS: BINARY: VALVE POSITION | SYSTEM OUTPUTS: ANALOG: FAN SPEED | SYSTEM INPUTS: BINARY: PRESSURE SWITCH | SYSTEM INPUTS: BINARY: FAN STATUS | SYSTEM INPUTS: BINARY: FREEZE STAT | SYSTEM INPUTS: ANALOG: HIGH TEMPERATURE (LT) | SYSTEM INPUTS: ANALOG: LOW TEMPERATURE | SYSTEM INPUTS: ANALOG: PRESSURE | SYSTEM INPUTS: ANALOG: DUCT PRESSURE | SYSTEM INPUTS: ANALOG: CARBON MONOXIDE | SYSTEM INPUTS: ANALOG: CARBON DIOXIDE | SYSTEM INPUTS: ANALOG: Long Term Trend | SYSTEM INPUTS: ANALOG: Long Term Trend | SYSTEM INPUTS: ANALOG: Long Term Trend | SYSTEM INPUTS: ANALOG: HIGH DRIFT | SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING: SYSTEM STARTUP | SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: FAN SCHEDULE (SCHEDULE) | SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: FAN SCHEDULE (SCHEDULE) | SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: FAN SCHEDULE (SCHEDULE) | SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: FAN SCHEDULE (SCHEDULE) | SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: FAN SCHEDULE (SCHEDULE) | SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: SPACE PRESSURE CONTROL | SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: SPACE TEMP CONTROL | SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: TRENDING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OUTSIDE AIR TEMPERAURE | AI-1 | OAT | | | | | | | | | | ● | | | | | | | | | | | | ● | | | | ● | | | | ● |
| PRE-FILTER PRESSURE DROP | AI-2 | PFDP | | | | | | ● | | | | | ● | | | ● | | | ● | ● | | | | | | | ● | ● | | | | ● |
| RETURN AIR TEMPERATURE | AI-3 | EAT | | | | | | ● | | | | ● | | | | | | | ● | | ● | | | | | | | ● | | | | ● |
| SUPPLY FAN VFD LOAD (%) | AI-4 | SF-VFD% | | | | ● | | | | | | | | | ● | | | | | | | | | | | | | ● | | | | ● |
| RETURN FAN VFD LOAD (%) | AI-5 | RF-VFD% | | | | ● | | | | | | | | | ● | | | | | | | | | | | | | ● | | | | ● |
| FINAL-FILTER PRESSURE DROP | AI-6 | FFDP | | | | | | ● | | | | | ● | | | ● | | | ● | ● | | | | | | | ● | ● | | | | ● |
| SUPPLY AIR TEMPERATURE | AI-7 | SAT | | | | | | ● | | | | ● | | | | | | | ● | ● | ● | | | ● | | | | ● | | | | ● |
| DUCT STATIC PRESSURE | AI-8 | DSP | | | | | | ● | | | | | ● | | | ● | | | ● | ● | | | | | | | ● | ● | | | | ● |
| SPACE STATIC PRESSURE | AI-9 | SSP | | | | | | | | | | | ● | | | ● | | | ● | ● | | | | | | | ● | ● | | | | ● |
| HW RETURN WATER TEMP. | AI-10 | HW-RWT | | | | | | ● | | | | ● | | | | | | | ● | | ● | | | | | | | ● | | | | ● |
| CW RETURN WATER TEMP. | AI-11 | CW-RWT | | | | | | ● | | | | ● | | | | | | | ● | ● | | | | | | | | ● | | | | ● |
| MIXED AIR TEMP. | AI-12 | MAT | | | | | | ● | | | | ● | | | | | | | ● | | ● | | | | | | | ● | | | | ● |
| OUTSIDE AIR CO2 | AI-13 | OSA-CO2 | | | | | | | | | | | | | | | ● | | ● | ● | | | | | | | | | | | | ● |
| PRESSURE SWITCH HIGH | AI-14 | PSH | | | | | | | | | | | ● | | | ● | | | ● | ● | | | | | | | ● | ● | | | | ● |
| FREEZESTAT | BI-1 | FRZST | | | | | | ● | | | ● | ● | | | | | | | ● | | ● | | | | | | | ● | | | | ● |
| SUPPLY FAN STATUS (SF) | BI-2 | SF-STS | | | | | | ● | ● | | | | | | | | | | | | | | | | | | | ● | | | | ● |
| RETURN FAN STATUS (RF) | BI-3 | RF-STS | | | | | | ● | ● | | | | | | | | | | | | | | | | | | | ● | | | | ● |
| SUPPLY FAN VFD ALARM | BI-4 | SF-ALA | | | | | | | ● | | | | | | | | | | ● | | | | | | | | | ● | | | | ● |
| RETURN FAN VFD ALARM | BI-5 | RF-ALA | | | | | | | ● | | | | | | | | | | ● | | | | | | | | | ● | | | | ● |
| CONDENSING UNIT STATUS | BI-6 | CU-STS | | | | | | ● | | | | | | | | | | | | | | | | | | | | ● | | | | ● |
| SUPPLY FAN VFD (SF) | AO-1 | SF-SPD | | | | ● | | | | | | | | | | | | | | | | | | | | | | ● | | | ● | ● FULL COMMUNICATION |
| RETURN FAN VFD (RF) | AO-2 | RF-SPD | | | | ● | | | | | | | | | | | | | | | | | | | | | | ● | | | ● | ● FULL COMMUNICATION |
| OUTSIDE AIR DAMPER | AO-3 | OAD | | | | | ● | | | | | | | ● | | | | | | | | ● | | | | | | ● | | | | ● |
| RETURN AIR DAMPER | AO-4 | RAD | | | | | ● | | | | | | | ● | | | | | | | | ● | | | | | | ● | | | | ● |
| COOLING COIL VALVE | AO-5 | CLG-V | | | | | ● | | | | | | | ● | | | | | | | | | | | | | | ● | | | | ● |
| HEATING COIL VALVE | AO-6 | HTG-V | | | | | ● | | | | | | | ● | | | | | | | | | | | | | | ● | | | | ● |
| EXHAUST AIR DAMPER | AO-7 | EAD | | | | | ● | | | | | | | ● | | | | | | | | ● | | | | | | ● | | | | ● |
| SUPPLY FAN START/STOP | BO-1 | SF1-SST | | | ● | | | | | | | | | | | | | | | | | | ● | | | | | | | | | ● |
| RETURN FAN START/STOP | BO-2 | RF2-SST | | | ● | | | | | | | | | | | | | | | | | | ● | | | | | | | | | ● |




1 VAV AIR HANDLING UNIT CONTROL SCHEMATIC

NTS

95% SUBMISSION

REVISIONS | DATE

CSHQA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DRAWING TITLE: CONTROLS SCHEMATIC

PROJECT TITLE: VAMC ENERGY UPGRADES PHASE ONE BUILDING 33

DATE: 03/03/11

PROJECT NO. 531-10-114

APPROVED: DIVISION CHIEF

APPROVED: SERVICE DIRECTOR

BUILDING NUMBER: 33 | CHECKED: RME | DRAWN: RME

LOCATION: BOISE, IDAHO

DRAWING NO. M3.5

DWG. 23 OF 32

DEPARTMENT OF VETERANS AFFAIRS


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Mar 03, 2011 - 3:00pm
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