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**ESTERLY SCHNEIDER & ASSOCIATES, INC.**  
 AIA architects & planners  
 COMM. # 4092

OFFICE OF ADMINISTRATION  
 DIVISION OF FACILITIES  
 MANAGEMENT,  
 DESIGN AND CONSTRUCTION

DEPARTMENT OF  
 PUBLIC SAFETY,  
 MISSOURI VETERANS  
 COMMISSION

HVAC REPLACEMENT  
 PROJECT

MISSOURI VETERANS  
 HOME

620 N. JEFFERSON  
 ST. JAMES, MO 65559

PROJECT # U1503-03  
 FAI # 29-051  
 SITE # 4700  
 FACILITY # 55019

REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 ISSUE DATE: 10-27-17

CAD DWG FILE: M-122.DWG  
 DRAWN BY: JMO  
 CHECKED BY: CJK  
 DESIGNED BY: JMO

SHEET TITLE:  
**HYDRONIC  
 PLAN**

SHEET NUMBER:  
**M-122**

26 OF 41 SHEETS

10-27-17

**NOTES:**

- ① NEW AIR HANDLING UNIT: REMOVE AND REPLACE PIPING AND VALVING. REMOVE AND REPLACE 1.5" HWS, 1.5" HWS, 2" CWS AND 2" CWS BRANCH PIPING BACK TO MAIN CONNECTION AND REPLACE ALL DIELECTRIC FITTINGS. PROVIDE NEW BRID-OFF VALVES AT MAIN PIPING CONNECTION AND RECONNECT TO MAIN PIPING. FIELD VERIFY EXISTING CONDITIONS AND LOCATION OF CONNECTIONS TO ALL EXISTING PIPING CONNECTIONS PRIOR TO SUBMITTAL OF AIR HANDLING UNIT. PROVIDE ALL REQUIRED ADJUSTMENTS TO EXISTING PIPING TO ACCOMMODATE NEW AIR HANDLING UNIT. PROVIDE 1.25" CONDENSATE DRAIN PIPING AND TERMINATE WITH AIR GAP OVER EXISTING FLOOR DRAIN.
- ② EXISTING HORIZONTAL 4-PIPE FAN COIL UNIT TO REMAIN.
- ③ EXISTING REHEAT COIL TO REMAIN.

**GENERAL NOTES:**

1. FOR ALL MECHANICAL QUESTIONS DURING BIDDING OR DURING CONSTRUCTION, CONTACT SCOTT VANDOREN AT MALONE FINKLE EDWARDS AND COLLINS, INC. (417-881-0020)
2. MECHANICAL HOT WATER HEATING SYSTEM SHALL BE DRAINED DOWN DURING THE COOLING SEASON. BOILER SYSTEM, HOT WATER PUMPS, AND ALL HOT WATER PIPING CHANGES SHALL BE PERFORMED DURING THE COOLING SEASON. ALL WORK SHALL BE PERFORMED, STARTING DECEMBER 1, 2017 AND SUBSTANTIALLY COMPLETE BY AUGUST 31, 2018.
3. MECHANICAL CHILLED WATER AND CONDENSER WATER SYSTEMS SHALL BE DRAINED DOWN DURING THE HEATING SEASON. CHILLED WATER PUMPS, CONDENSER WATER PUMPS AND ALL CHILLED WATER PIPING CHANGES SHALL BE PERFORMED DURING THE HEATING SEASON. ALL WORK SHALL BE PERFORMED, STARTING DECEMBER 1, 2017 AND SUBSTANTIALLY COMPLETE BY FEBRUARY 28, 2018.
4. CONTRACTOR SHALL COORDINATE WITH THE HVAC WATER TREATMENT CONTRACTOR PER SPECIFICATIONS SECTION 232200. ALL WATER TREATMENT SHALL BE COMPLETED BY THE SYSTEM SUBSTANTIAL COMPLETION DATE.
5. TEST, ADJUST AND BALANCE REPORT FOR THE WATER SYSTEMS SHALL BE COMPLETE AND APPROVED BY THE ENGINEER, PRIOR TO THE SUBSTANTIAL COMPLETION DATE OF EACH WATER SYSTEM.



TAB CONTRACTOR SHALL TEST THE CW AND HW FLOWRATE WITH THE EACH SYSTEM UNDER SIMULATED PEAK LOAD, PRIOR TO COMMENCING WITH ANY HYDRONIC DEQUALIFICATION WORK. REPORT FINDINGS TO ARCHITECT/ENGINEER AND OBTAIN APPROVAL PRIOR TO COMMENCING WITH ANY HYDRONIC DEQUALIFICATION WORK. BALANCE WHEN THE CHILLED WATER AND HOT WATER SYSTEMS ARE BALANCED

**1 MAIN LEVEL - WING 'F' - HYDRONIC PLAN**  
 SCALE: 1/8"=1'-0"  
 NORTH

