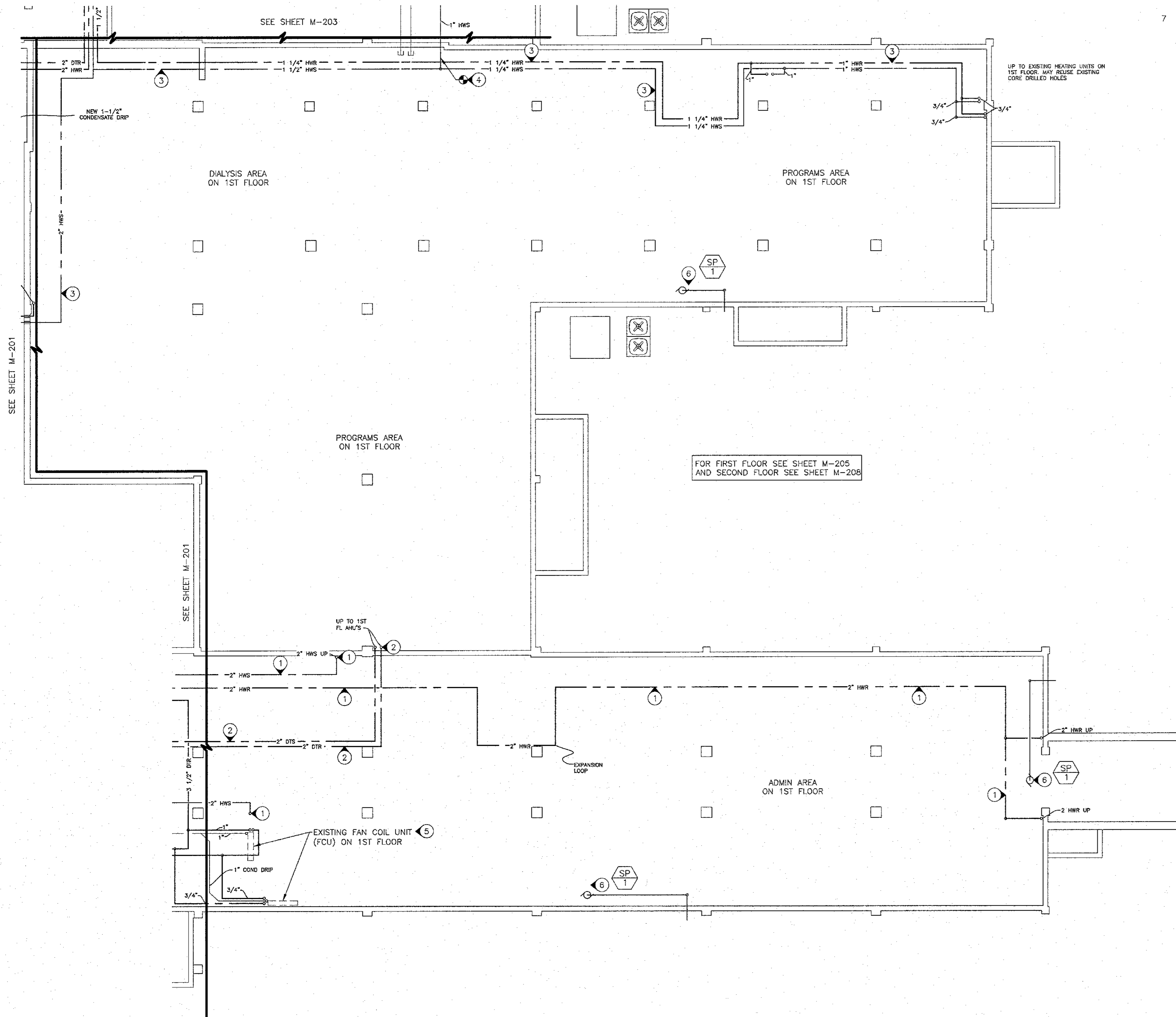
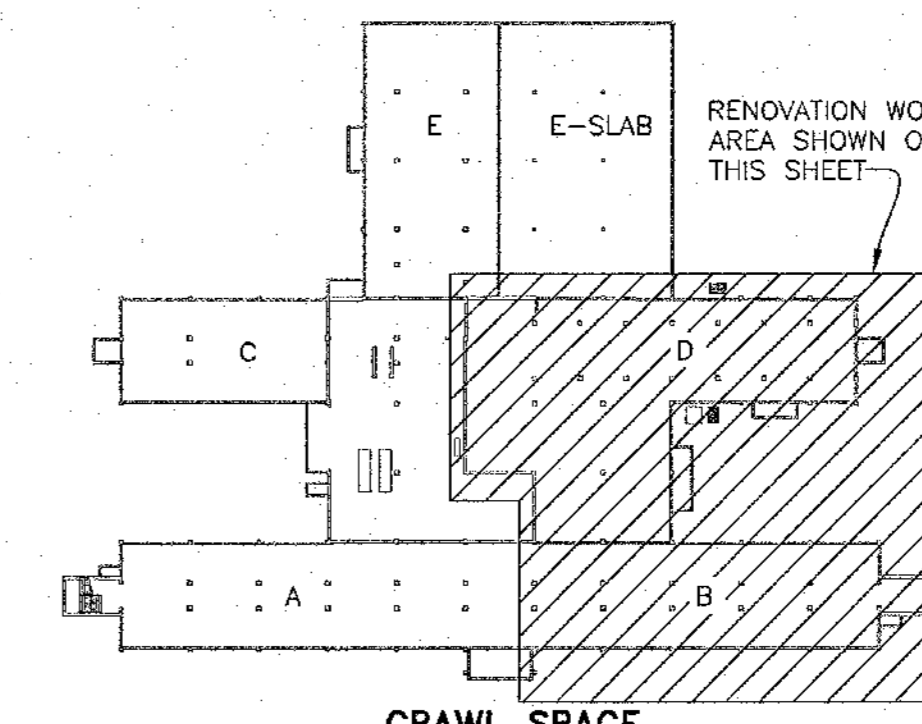


**SPECIFIC MECHANICAL CONSTRUCTION NOTES**

- ① ZONE 4 WORK. PROVIDE NEW HWS AND HWR PIPING ROUTED THRU BASEMENT CRAWLSPACE UP TO 2ND FLOOR FIN TUBE HEATERS. INSULATE PIPING. REUSE EXISTING FLOOR PENETRATION. PROVIDE EXPANSION LOOP AS SHOWN.
- ② ZONE 4 WORK. CONTINUE ROUTING NEW DTS & DTR PIPING ROUTED THRU BASEMENT CRAWLSPACE UP TO 1ST FLOOR AHU'S. REUSE EXISTING FLOOR PENETRATION.
- ③ ZONE 3 WORK. CONTINUE ROUTING NEW HWS & HWR PIPING AS SHOWN THROUGH CRAWLSPACE UP TO 1ST FLOOR UNIT HEATERS. PROVIDE EXPANSION LOOP AS SHOWN.
- ④ ZONE 2 WORK. CONNECT NEW HWS TO EXISTING BRANCH AT THIS LOCATION.
- ⑤ ZONE 5 WORK. CONTINUE ROUTING DTS & DTR BRANCH PIPING THRU CRAWLSPACE UP TO 1ST FLOOR FCU'S.
- ⑥ PLUMBING CONTRACTOR TO SUPPLY ALL SUMP PUMP COMPONENTS. ABATEMENT CONTRACTOR TO INSTALL SLOTTED SUMP BASIN AND SEAL TO VAPOR BARRIER. PLUMBING CONTRACTOR TO INSTALL PUMP AND PVC DRAIN PIPING. INSTALL DRAIN DISCHARGE THROUGH FOUNDATION WALL AND ANGLE DOWN AT 90 DEG. TERMINATE ~12" ABOVE GRADE SUCH THAT PUMP DISCHARGE WILL BE NOTICEABLE. ANCHOR PIPING TO BUILDING STRUCTURE AND SEAL ALL PENETRATIONS TO MAKE WATER AND AIR TIGHT.
- 7 PIPING INSULATION TO BE A THERMAL INSULATING PAINT AND SHALL BE COMPLETED BY DEPARTMENT OF CORRECTIONS. PIPING SHALL BE INSULATED PRIOR TO INSTALLATION. FITTINGS AND CONNECTIONS SHALL BE INSULATED AFTER WORK IS COMPLETED. CONTRACTOR SHALL COORDINATE WITH DOC PERSONNEL REGARDING DELIVERY AND INSULATING PIPE PRIOR TO INSTALLATION.



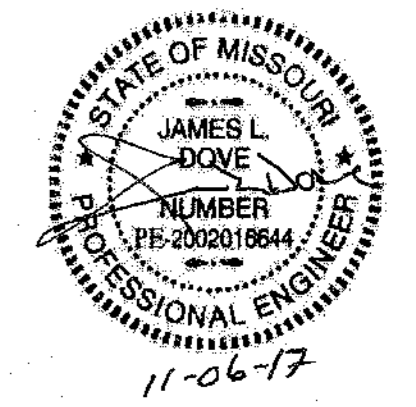
LEGEND	
HWS	NEW HOT WATER SUPPLY PIPE
HWR	NEW HOT WATER RETURN PIPE
HWS	EXISTING HOT WATER SUPPLY PIPE
HWR	EXISTING HOT WATER RETURN PIPE
DTS	NEW DUAL TEMP SUPPLY PIPE
DTR	NEW DUAL TEMP RETURN PIPE
DTS	EXISTING DUAL TEMP SUPPLY PIPE
DTR	EXISTING DUAL TEMP RETURN PIPE
CTS	EXISTING COOLING TOWER SUPPLY
CTR	EXISTING COOLING TOWER RETURN
COND DRIP	EXISTING CONDENSATE LINE
	NEW BALL VALVE
	EXISTING VALVE
	NEW GATE VALVE
	EXISTING GATE VALVE
	EXISTING CONTROL VALVE
	NEW ELBOW UP
	EXISTING ELBOW UP
	NEW ELBOW DOWN
	EXISTING ELBOW DOWN
	NEW TEE DOWN
	EXISTING TEE DOWN
	NEW TEE UP
	EXISTING TEE UP
	TIE NEW TO EXISTING HERE



**1 PARTIAL CRAWL SPACE HVAC PIPING RENOVATION PLAN**  
SCALE: 1/8"=1'-0"

**2 KEY PLAN**  
SCALE: NONE

STATE OF MISSOURI  
ERIC R. GREITENS,  
GOVERNOR



**Midwest Engineering & Design**  
3100 Brown Station Rd. Suite C  
Columbia, MO. 65202  
(573) 875-0045 Phone  
(573) 875-0046 FAX  
WWW.MOENGINEERING.COM  
Missouri State Certificate of Authority #2010032467

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

MISSOURI DEPARTMENT  
OF CORRECTIONS

ABATE AND REPLACE  
PIPING VARIOUS

MOBERLY CORRECTIONAL  
CENTER  
5201 S. MORLEY STREET  
MOBERLY, MO

PROJECT # C1601-01  
SITE # 2305  
FACILITY # 27250/27265

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 11/06/2017

CAD DWG FILE: MCC-m reno.dwg  
DRAWN BY: CJH/MDS/JDK  
CHECKED BY: JLD  
DESIGNED BY: CJH

SHEET TITLE:  
**ADMIN. BLDG. CRAWL  
SPACE HVAC PIPING  
RENOVATION PLAN**

SHEET NUMBER:

**M-202**

21 OF 30 SHEETS