

3100 Brown Station Rd. Suite C
Columbia, MO. 65202
(573) 875-0045 Phone
(573) 875-0046 FAX
WWW.MOENGINEERING.COM
Midwest Engineering & Design
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:

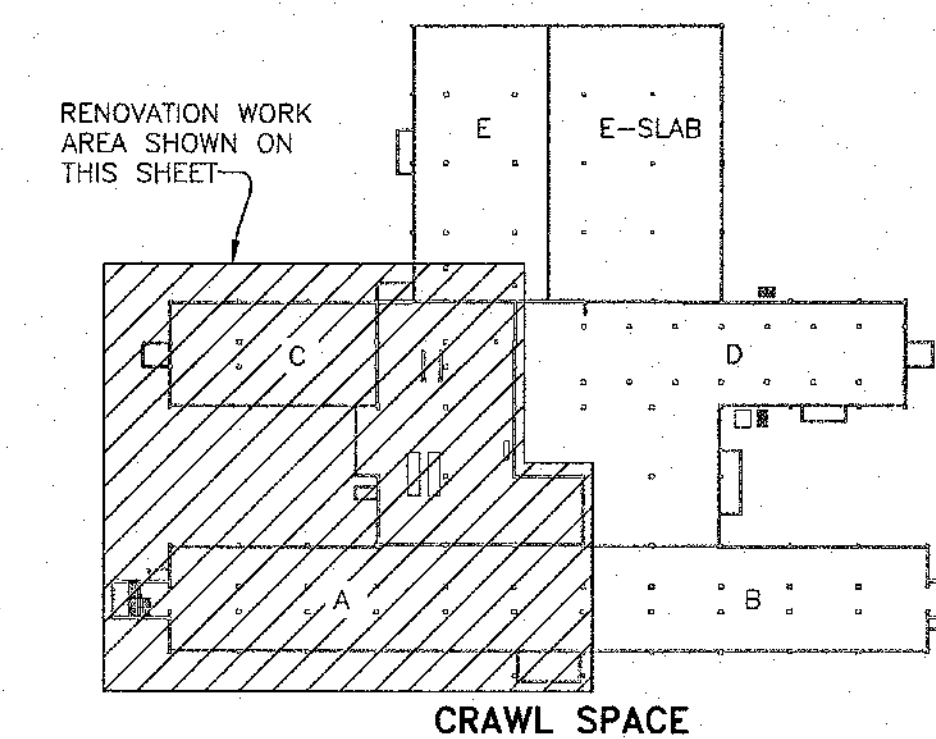
M-201

20 OF 30 SHEETS

SPECIFIC MECHANICAL CONSTRUCTION NOTES

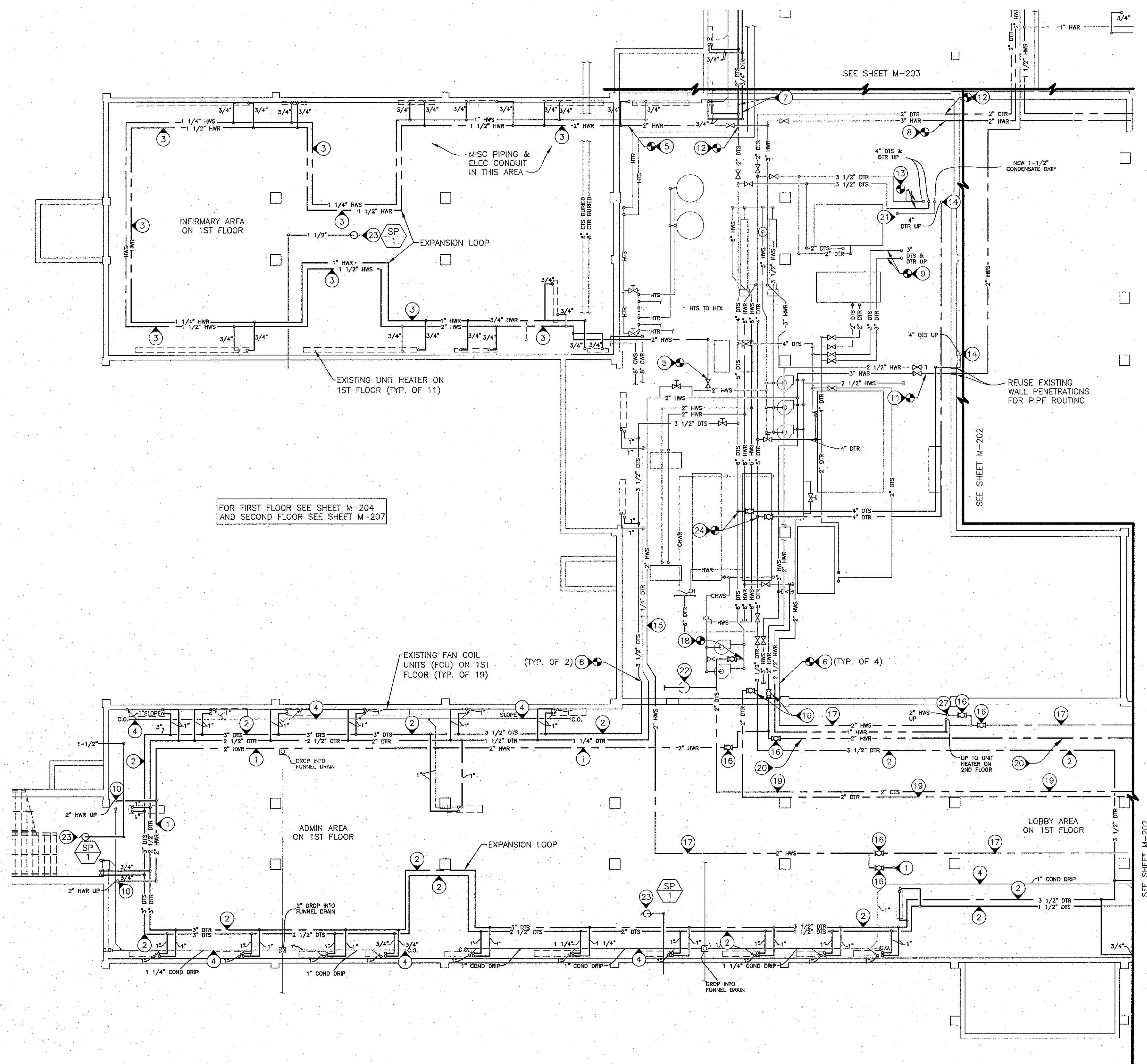
- 1 ZONE 5 WORK. ROUTE NEW HWS & HWR PIPING IN BASEMENT CRAWLSPACE. PROVIDE EXPANSION LOOPS AS SHOWN.
- 2 ZONE 5 WORK. ROUTE NEW DTS & DTR PIPING IN BASEMENT CRAWLSPACE UP TO 1ST FLOOR FCU'S. ROUTE UP THRU EXISTING FLOOR PENETRATIONS TO FCU'S ABOVE. PROVIDE EXPANSION LOOP AS SHOWN.
- 3 ZONE 1 WORK. ROUTE NEW HWS & HWR PIPING AS SHOWN. ROUTE UP THROUGH EXISTING FLOOR PENETRATIONS TO EXISTING HEATING UNITS ABOVE. PROVIDE EXPANSION LOOP AS SHOWN.
- 4 EXISTING CONDENSATE DRIP LINE TO REMAIN.
- 5 ZONE 1 WORK. CONNECT HWS & HWR AT THIS LOCATION INSIDE MECHANICAL ROOM.
- 6 ZONE 5 WORK. CONNECT NEW PIPING TO EXISTING PIPING AT THESE LOCATIONS.
- 7 ZONE 2 WORK. THIS WORK SPECIFIED ON SHEET M-204.
- 8 ZONE 2 & 3 WORK. CONNECT NEW 2" HWR TO 3" HWR PIPING AT THIS LOCATION.
- 9 ZONE 2 WORK. CONNECT NEW 2-1/2" DTS & DTR PIPING THAT ROUTES UP TO 1ST FLOOR VISITOR'S AREA AT THIS LOCATION. PIPING ROUTES UP THRU MECHANICAL CLOSET.
- 10 ZONE 5 WORK. ROUTE NEW HW PIPING UP THROUGH EXISTING FLOOR PENETRATIONS TO FIRST FLOOR.
- 11 ZONE 2 & 3 WORK. CONNECT NEW 2" HWS PIPING AT THIS LOCATION. ROUTE THROUGH MECHANICAL ROOM WALL AND UP THROUGH 1ST FLOOR. PROVIDE NEW CORE DRILLED HOLES IN CONCRETE FOR ROUTING.
- 12 ZONE 2 WORK. CONNECT NEW 2" DTS & 2" DTR PIPING AT THESE LOCATIONS.
- 13 ZONE 6 WORK. CONNECT NEW 4" DTS & DTR PIPING AT THIS LOCATION. ROUTE UP THROUGH 1ST FLOOR MECHANICAL CLOSET. INSULATE NEW PIPING AND AT TIE-IN.
- 14 ZONE 3 WORK. ROUTE NEW 4" DTS & DTR PIPING UP TO 1ST FLOOR AT THESE LOCATIONS.
- 15 ZONE 4 & 5 WORK. TIE NEW HWS PIPING INTO EXISTING AT THIS LOCATION.
- 16 INSTALL NEW BRANCH ISOLATION VALVE AT THIS LOCATION. LABEL ACCORDINGLY.
- 17 ZONE 4 & 5 WORK. ROUTE NEW HWS & HWR PIPING THRU CRAWLSPACE.
- 18 ZONE 4 WORK. TIE NEW DTS PIPING INTO SUPPLY SIDE OF PUMP. PROVIDE NEW BRANCH ISOLATION VALVE.
- 19 ZONE 4 WORK. ROUTE NEW DTS & DTR PIPING THRU CRAWLSPACE TO 1ST FLOOR AHU'S.
- 20 ZONE 4 WORK. ROUTE NEW HWR PIPING THRU CRAWLSPACE. INSULATE NEW PIPING AND TIE-IN.
- 21 ROUTE 1-1/2" CONDENSATE DRIP LINE DOWN TO FLOOR DRAIN.
- 22 SEE POT FEEDER DETAIL 4, SHEET M-501
- 23 PROPOSED LOCATION OF NEW SUMP PUMPS. SEE NOTES ON H-101. ROUTE 1-1/2" DISCHARGE PIPING AS SHOWN. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL PUMP AND DRAIN.
- 24 PROVIDE NEW 4" DTS AND DTR TAPS INTO EXISTING 6" PIPING AS SHOWN. PROVIDE NEW ISOLATION VALVES. ROUTE 4" PIPING AS SHOWN.
- 25 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.
- 26 ROUTE NEW HWS UP TO 1ST FLOOR.
- 27 ROUTE HW PIPING UP TO 1ST FLOOR JUST OUTSIDE OF CHASE WALL. CORE DRILL NEW HOLES.

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
CB	NEW BALL VALVE
EV	EXISTING VALVE
GV	NEW GATE VALVE
EV	EXISTING GATE VALVE
CV	EXISTING CONTROL VALVE
EU	NEW ELBOW UP
EU	EXISTING ELBOW UP
ED	NEW ELBOW DOWN
ED	EXISTING ELBOW DOWN
TD	NEW TEE DOWN
TD	EXISTING TEE DOWN
TU	NEW TEE UP
TU	EXISTING TEE UP
●	TIE NEW TO EXISTING HERE



CRAWL SPACE

KEY PLAN



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

2 KEY PLAN
SCALE: NONE