

YORK SCHOOL DEPARTMENT MECHANICAL UPGRADES

YORK, MAINE

CONSTRUCTION DOCUMENTS

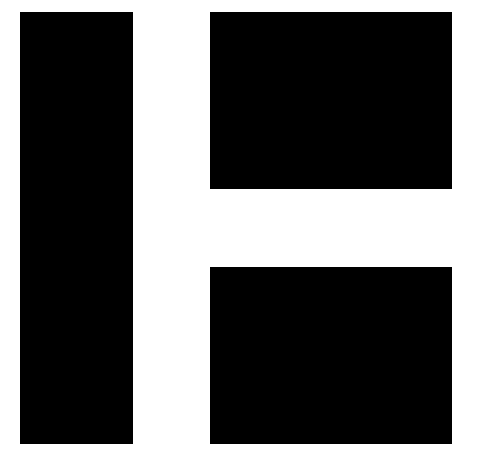
MAY 19, 2022

LIST OF DRAWINGS

G00-1 COVER SHEET

MECHANICAL DRAWINGS

M00-1 LEGEND & GENERAL NOTES
M05-1 MIDDLE SCHOOL GROUND FLOOR MECHANICAL DEMOLITION
M05-2 MIDDLE SCHOOL FIRST FLOOR MECHANICAL DEMOLITION
M05-3 MIDDLE SCHOOL SECOND FLOOR MECHANICAL DEMOLITION
M05-4 HIGH SCHOOL FIRST FLOOR MECHANICAL DEMOLITION PLAN NORTH
M05-5 HIGH SCHOOL FIRST FLOOR MECHANICAL DEMOLITION PLAN SOUTH
M05-6 HIGH SCHOOL SECOND FLOOR MECHANICAL DEMOLITION
M10-1 MIDDLE SCHOOL GROUND FLOOR MECHANICAL
M10-2 MIDDLE SCHOOL FIRST FLOOR MECHANICAL
M10-3 MIDDLE SCHOOL SECOND FLOOR MECHANICAL
M10-4 HIGH SCHOOL FIRST FLOOR MECHANICAL PLAN NORTH
M10-5 HIGH SCHOOL FIRST FLOOR MECHANICAL PLAN SOUTH
M10-6 HIGH SCHOOL SECOND FLOOR MECHANICAL



HARRIMAN

YORK SCHOOL
DEPARTMENT
MECHANICAL UPGRADES

YORK, MAINE

Harriman Project No. 21295

CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date	Revision Description

PA / PE: MJB	
Drawn By: DRE	

COVER SHEET

G00-1

ABBREV DESCRIPTION

ACV	AUTOMATIC CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALD	ACOUSTICAL LINED DUCT
AMS	AIRFLOW MEASURING STATION
APD	AIR PRESSURE DROP
ATC	AUTOMATIC TEMPERATURE CONTROL
B	BAROMETRIC DAMPER
BD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BPD	BYPASS DAMPER
BTU	BRITISH THERMAL UNITS
CBD	COUNTERBALANCED BACKDRAFT DAMPER
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CO	CLEANOUT
CTE	CONNECT TO EXISTING
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DCW	DOMESTIC COLD WATER
DEG.F	DEGREES FAHRENHEIT
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DN	DOWN
DTR	DUAL TEMPERATURE RETURN
DTS	DUAL TEMPERATURE SUPPLY
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXG	EXISTING
EXH	EXHAUST
F&T	FLOAT & THERMOSTATIC TRAP
F/S	FIRE AND SMOKE COMBINATION DAMPER
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FL	FINNED LENGTH OF RADIATION
FM	FLOW METER
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FPF	FINS PER FOOT
FPI	FINS PER/INCH
FPM	FEET PER MINUTE
FT	FEET
FT-HD	FEET OF HEAD
FT-WG	FEET WATER GAUGE
FTR	FIN TUBE RADIATOR
GAL	GALLONS
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPCR	HIGH PRESSURE CONDENSATE RETURN (OVER 30 PSIG)
HPS	HIGH PRESSURE STEAM (OVER 30PSIG)
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY

ABBREV DESCRIPTION

IN	INCHES
LAT	LEAVING AIR TEMPERATURE
LPCR	LOW PRESSURE CONDENSATE RETURN (LESS THAN 15 PSI)
LPS	LOW PRESSURE STEAM(LESS THAN 15 PSI)
LRA	LOCKED ROTOR AMPS
LSGV	LOCK & SHIELD GATE VALVE
LWT	LEAVING WATER TEMPERATURE
M	MOTORIZED DAMPER
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOPD	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
MPCR	MEDIUM PRESSURE CONDENSATE RETURN(16-30 PSIG)
MPS	MEDIUM PRESSURE STEAM (16-30 PSIG)
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OED	OPEN END DUCT
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
PD	PRESSURE DROP
PRD	PRESSURE RELIEF DAMPER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RET	RETURN
RL	REFRIGERANT LIQUID
RLA	RATED LOAD AMPERES
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
S	SMOKE DAMPER
SP	STATIC PRESSURE
SS	STAINLESS STEEL
SUP	SUPPLY
TEMP	TEMPERATURE
TT	THERMOSTATIC TRAP
TYP	TYPICAL
V	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
W/O	WITHOUT
WC	WATER COLUMN
WG	WATER GAUGE
WMS	WELDED WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
Z	ZONE DAMPER
PREFIX OF X	EXISTING

PIPING LEGEND

SYMBOL	DESCRIPTION
	EXISTING SUPPLY PIPING TO REMAIN
	EXISTING RETURN PIPING TO REMAIN
	NEW SUPPLY PIPING
	NEW RETURN PIPING
	ACV 2 - WAY
	ACV 3 - WAY
	BUTTERFLY VALVE
	CAP - PIPE
	CHECK VALVE
	COMBINATION BALANCING, FLOW MEASURING & TIGHT SHUT-OFF VALVE
	DIFFERENTIAL PRESSURE SENSOR
	FLOAT & THERMOSTATIC TRAP
	ISOLATION VALVE
	GLOBE VALVE
	INVERTED BUCKET TRAP
	LOCKSHIELD GATE VALVE
	MANUAL AIR VENT
	OS&Y GATE VALVE
	PETCOCK FOR GAUGE CONNECTION
	PIPE ANCHOR
	PIPE DOWN
	PIPE UP
	PIPE GUIDE
	PLUG VALVE
	PRESSURE GAUGE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	REDUCER - CONCENTRIC
	REDUCER - ECCENTRIC
	STRAINER
	TAKE - OFF FROM BOTTOM OF PIPE
	TAKE - OFF FROM TOP OF PIPE
	THERMOMETER
	THERMOMETER WELL
	THERMOSTATIC TRAP
	UNION
	RADIATION I.D. (TYPE A, 10'-0" FINNED LENGTH, BALANCED TO 1.2 GPM) WITH DAMPER
	RADIATION I.D. (TYPE A, 10'-0" FINNED LENGTH, BALANCED TO 1.2 GPM) WITHOUT DAMPER

DUCTWORK LEGEND

SYMBOL	DESCRIPTION
	EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK
	ACOUSTICALLY LINED DUCT
	AIRFLOW MEASURING STATION
	BACKDRAFT DAMPER
	COUNTERBALANCED DAMPER
	SPIRAL DUCT DIAMETER
	DUCT SECTION - SUPPLY/OUTDOOR AIR
	DUCT SECTION - RETURN AIR
	DUCT SECTION - EXHAUST AIR
	DUCT TURNING VANES
	FIRE DAMPER (1 1/2 HOUR RATED)
	FIRE AND SMOKE DAMPER (1 1/2 HOUR RATED)
	FIRE DAMPER (3 HOUR RATED)
	FLEXIBLE DUCT
	LOUVER
	MOTORIZED DAMPER
	PRESSURE RELIEF DAMPER
	RETURN OR EXHAUST AIR
	SMOKE DAMPER
	DUCT MOUNTED SMOKE DETECTOR
	STRAINER
	STATIC PRESSURE SENSOR
	SUPPLY OR OUTSIDE AIR
	VOLUME DAMPER
	S (SUPPLY) R (RETURN) E (EXHAUST) T (TRANSFER) SUPPLY DIFFUSER (TYPE 2) DIFFUSER DESCRIPTION (SEE REG., GRILLES & DIFF SCHEDULE) QUANTITY 400 400 CFM EA

CONTROLS LEGEND

SYMBOL	DESCRIPTION
	HUMIDISTAT
	HUMIDITY SENSOR
	TEMPERATURE SENSOR
	THERMOSTAT
	THERMOSTAT COOLING
	THERMOSTAT HEATING
	THERMOSTAT - NIGHT
	THERMOSTAT - HEATING/COOLING

GENERIC LEGEND

SYMBOL	DESCRIPTION
	CONNECT NEW TO EXISTING
	COMPLETELY REMOVE EQUIPMENT, DUCTWORK, OR PIPING
	EXISTING EQUIPMENT TO REMAIN
	NEW EQUIPMENT
	SECTION I.D. (SECTION A SHOWN ON DWG. M10.1)

GENERAL NOTES

- VISIT THE BUILDING SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS, AND TO TAKE MEASUREMENTS AS NECESSARY FOR COMPLETION OF THE WORK ASSOCIATED WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
- COORDINATE WORK OF MECHANICAL SUBCONTRACTOR WITH WORK OF OTHER TRADES.
- DUCTWORK, PIPING AND EQUIPMENT ARE INDICATED DIAGRAMMATICALLY. FIELD-VERIFY LOCATIONS.
- PROVIDE 16 GAUGE SINGLE-THICKNESS TURNING VANES AT MITERED DUCT ELBOWS. VANE EDGES (LEADING AND TRAILING) SHALL BE TANGENTIAL TO AIRFLOW.
- MOUNT THERMOSTATS AND TEMPERATURE AND HUMIDITY SENSORS AT 48 INCHES AFF TO TOP OF ITEM. PROVIDE ELECTRICAL WALL BOX ATTACHED TO FRAMING.
- WHERE THERMOSTATS/TEMPERATURE SENSORS ARE LOCATED NEAR LIGHT SWITCHES, INSTALL SO THAT LIGHT SWITCHES ARE NEARER TO THE DOOR JAMBS. THE INTENT IS TO LOCATE THERMOSTATS/ TEMPERATURE SENSORS SO THEY WILL NOT INTERFERE WITH ACCESSIBILITY OF LIGHT SWITCHES.
- PROVIDE ALL REQUIRED PENETRATIONS IN RATED ASSEMBLIES, INCLUDING BUT LIMITED TO WALLS AND FLOORS WITH A UL APPROVED FIRESTOPPING ASSEMBLY INCLUDING LISTING LABEL OF PENETRATION AFTER PASSING THROUGH UTILITIES.

DEMOLITION NOTES

- DURING DEMOLITION PROPERLY CAP AND PROTECT ALL PIPING & DUCTWORK THAT WILL REMAIN IN OPERATION
- WHERE EXISTING INSULATION TO REMAIN IS DAMAGED BY THE REQUIREMENTS OF WORK, REPLACE ANY DAMAGED INSULATION IN KIND
- MECHANICAL CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR DISTRIBUTION OF RESPONSIBILITY AMONGST CONTRACTORS FOR SPECIFIC PORTIONS OF CUTTING AND PATCHING WORK. PLUMBING CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING WORK WITH ALL OTHER CONTRACTORS INVOLVED AS DEFINED IN THE SPECIFICATIONS
- LOCATION OF EXISTING PIPING & DUCTWORK AS SHOWN ON DRAWINGS IS APPROXIMATE
- COMPLETELY REMOVE ALL EQUIPMENT AS INDICATED & OR MISCELLANEOUS ARTICLES IN THEIR ENTIRETY INCLUDING AUXILIARY EQUIPMENT, PIPING, WIRING & CONDUIT
- INCLUDE ALL DEMOLITION OF SYSTEMS AND COMPONENTS WHERE SYSTEMS SHALL BE REPLACED BY NEW WORK. REFER TO THE DRAWINGS & SPECIFICATIONS FOR SCOPE OF NEW & RECONNECTED WORK. THE INTENT OF THIS REQUIREMENT IS TO HAVE THE CONTRACTOR DISCONNECT, DEMOLISH & REMOVE ALL EXPOSED & CONCEALED WORK WHERE BEING REPLACED OR CONNECTED TO THE PROPOSED LAYOUTS
- COORDINATE ELECTRICAL POWER DISCONNECTION PRIOR TO DEMOLITION WITH ELECTRICAL CONTRACTOR
- CONTRACTOR SHALL CLEAN UP, REMOVE AND DISPOSE OF ALL DEBRIS AND DISCARDED ITEMS UPON COMPLETION OF CONSTRUCTION TO BE READY FOR A NEW OCCUPANCY CONDITION
- DEMOLISH & COMPLETELY REMOVE EXISTING CONDITIONS DESIGNATED BY A HEAVY DASHED LINE UNLESS NOTED OTHERWISE. REFER TO LEGEND AND DEMOLITION PLANS FOR SCOPE OF WORK

HARRIMAN

YORK SCHOOL DEPARTMENT MECHANICAL UPGRADES

YORK, MAINE

Harriman Project No. 21295

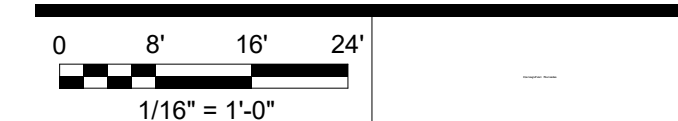
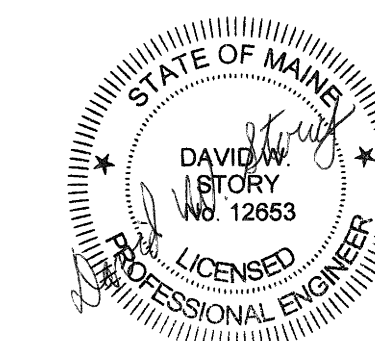
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CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date	Revision Description



PA / PE: DWS
Drawn By: MJJP

LEGEND & GENERAL NOTES

M00-1

CLARIFICATIONS AND EXCLUSIONS

1. SCOPE DOES NOT INCLUDE REPAIRS OR REPLACEMENT OF MECHANICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO: FANS, CONTROL DAMPERS, LOUVERS, BEARINGS, BOILERS, ETC UNLESS SPECIFICALLY CALLED OUT.
2. ALL EXISTING NON-DDC CONTROLLED HEATING EQUIPMENT SHALL REMAIN CONTROLLED AS IS UNLESS SPECIFICALLY CALLED OUT.

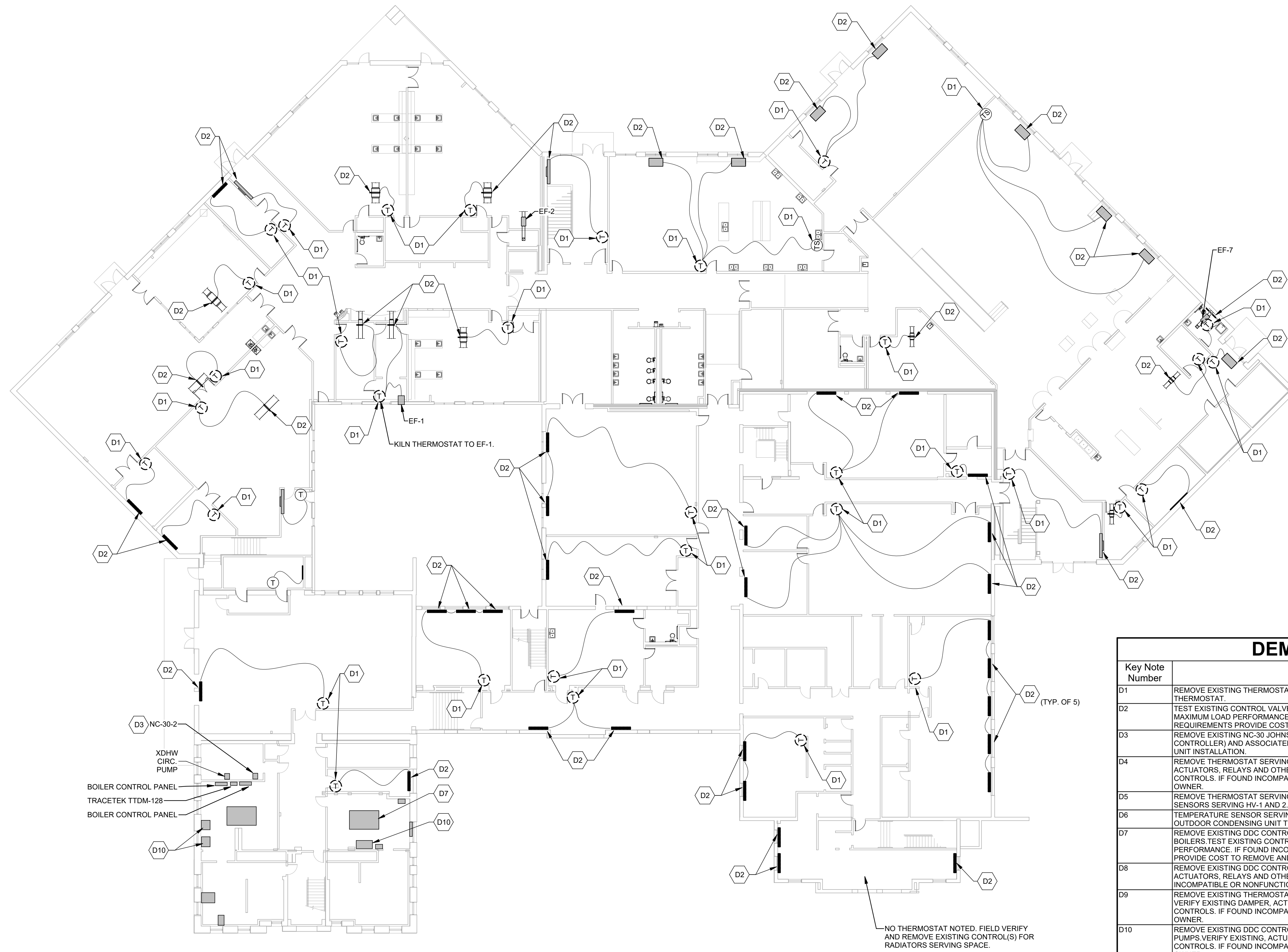
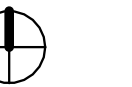
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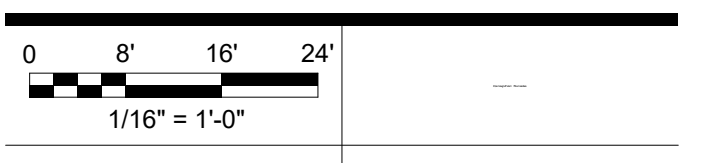
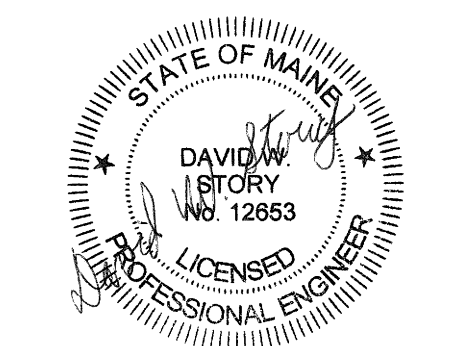


DEMO KEY NOTES	
Key Note Number	Key Note Description
D1	REMOVE EXISTING THERMOSTAT AND ASSOCIATED CONTROLS WIRING BACK TO EQUIPMENT SERVED BY THERMOSTAT.
D2	TEST EXISTING CONTROL VALVE(S) AND/OR DAMPER(S) TO ENSURE FULL FUNCTION AT MINIMUM AND MAXIMUM LOAD PERFORMANCE. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D3	REMOVE EXISTING NC-30 JOHNSON CONTROLS SUPERVISORY UNIT (BUILDING NETWORK COMMUNICATION CONTROLLER) AND ASSOCIATED WIRING AS REQUIRED TO PREPARE LOCATION FOR NEW SUPERVISORY UNIT INSTALLATION.
D4	REMOVE THERMOSTAT SERVING SPACE HEATING EQUIPMENT AS NOTED IN D1. VERIFY EXISTING ACTUATORS, RELAYS AND OTHER CONTROLS TO REMAIN ON EQUIPMENT ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE OR NONFUNCTIONING PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D5	REMOVE THERMOSTAT SERVING ROOM HEATING EQUIPMENT AS NOTED IN D1. REMOVE TEMPERATURE SENSORS SERVING HV-1 AND 2.
D6	TEMPERATURE SENSOR SERVING CHILLED WATER COIL, CHILLED WATER COIL, AND ASSOCIATED OUTDOOR CONDENSING UNIT TO REMAIN.
D7	REMOVE EXISTING DDC CONTROLLER AND ASSOCIATED SENSORS SERVING HEATING HOT WATER BOILERS. TEST EXISTING CONTROL VALVE(S) TO ENSURE FULL FUNCTION AT MINIMUM AND MAXIMUM LOAD PERFORMANCE. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D8	REMOVE EXISTING DDC CONTROLLERS AND SENSORS SERVING HV UNITS. VERIFY EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE OR NONFUNCTIONING PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D9	REMOVE EXISTING THERMOSTAT AND DDC CONTROLLER AND SENSORS SERVING AC-1 ON ROOF ABOVE. VERIFY EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE OR NONFUNCTIONING PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D10	REMOVE EXISTING DDC CONTROLLER AND ASSOCIATED SENSORS SERVING HEATING HOT WATER PUMPS. VERIFY EXISTING, ACTUATORS, RELAYS AND OTHER CONTROLS ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE OR NONFUNCTIONING PROVIDE COST TO REMOVE AND REPLACE TO OWNER.

CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date Revision Description



PA / PE: DWS
Drawn By: MJP

MIDDLE SCHOOL
GROUND FLOOR
MECHANICAL
DEMOLITION

M05-1

1 MIDDLE SCHOOL MECHANICAL REMOVAL - GROUND FLOOR
SCALE: 1/16" = 1'-0"

CLARIFICATIONS AND EXCLUSIONS

1. SCOPE DOES NOT INCLUDE REPAIRS OR REPLACEMENT OF MECHANICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO: FANS, CONTROL DAMPERS, LOUVERS, BEARINGS, BOILERS, ETC UNLESS SPECIFICALLY CALLED OUT.
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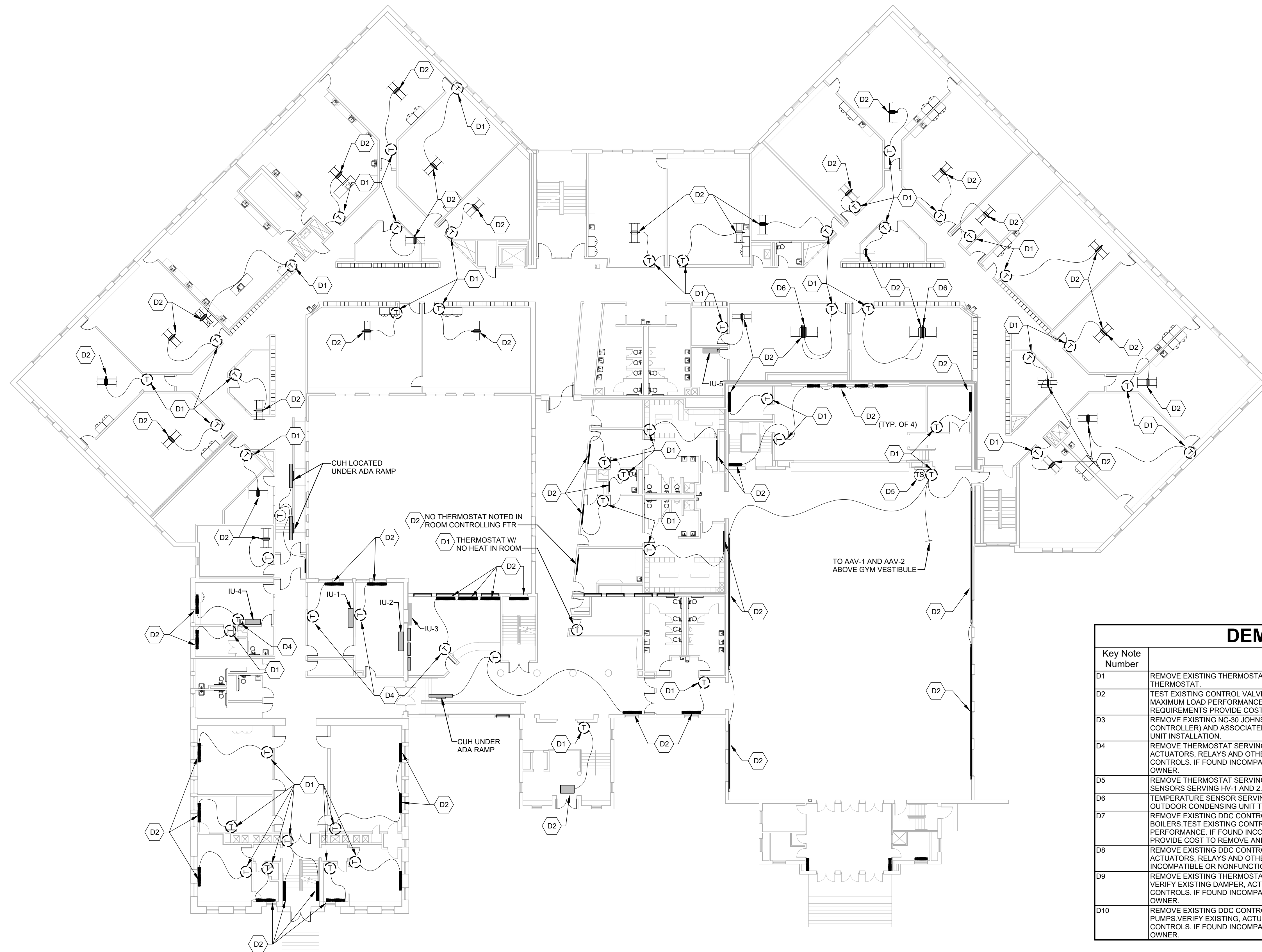
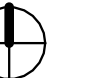
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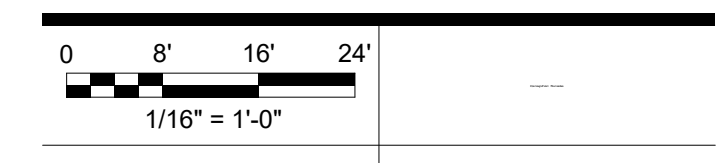
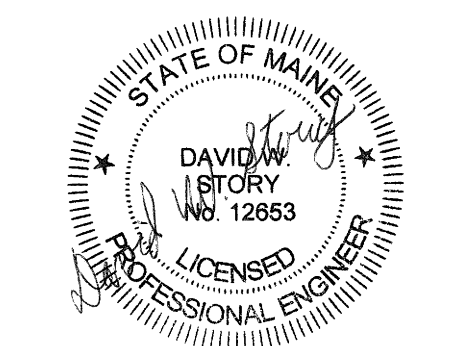
Proj North



DEMO KEY NOTES	
Key Note Number	Key Note Description
D1	REMOVE EXISTING THERMOSTAT AND ASSOCIATED CONTROLS WIRING BACK TO EQUIPMENT SERVED BY THERMOSTAT.
D2	TEST EXISTING CONTROL VALVE(S) AND/OR DAMPER(S) TO ENSURE FULL FUNCTION AT MINIMUM AND MAXIMUM LOAD PERFORMANCE. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D3	REMOVE EXISTING NC-30 JOHNSON CONTROLS SUPERVISORY UNIT (BUILDING NETWORK COMMUNICATION CONTROLLER) AND ASSOCIATED WIRING AS REQUIRED TO PREPARE LOCATION FOR NEW SUPERVISORY UNIT INSTALLATION.
D4	REMOVE THERMOSTAT SERVING SPACE HEATING EQUIPMENT AS NOTED IN D1. VERIFY EXISTING ACTUATORS, RELAYS AND OTHER CONTROLS TO REMAIN ON EQUIPMENT ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE OR NONFUNCTIONING PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D5	REMOVE THERMOSTAT SERVING ROOM HEATING EQUIPMENT AS NOTED IN D1. REMOVE TEMPERATURE SENSORS SERVING HV-1 AND 2.
D6	TEMPERATURE SENSOR SERVING CHILLED WATER COIL, CHILLED WATER COIL, AND ASSOCIATED OUTDOOR CONDENSING UNIT TO REMAIN.
D7	REMOVE EXISTING DDC CONTROLLER AND ASSOCIATED SENSORS SERVING HEATING HOT WATER BOILERS. TEST EXISTING CONTROL VALVE(S) TO ENSURE FULL FUNCTION AT MINIMUM AND MAXIMUM LOAD PERFORMANCE. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
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CONSTRUCTION DOCUMENTS
MAY 19, 2022

Rev Date	Revision Description



PA / PE: DWS
Drawn By: MJP

MIDDLE SCHOOL FIRST
FLOOR MECHANICAL
DEMOLITION

1 MIDDLE SCHOOL MECHANICAL REMOVAL - FIRST FLOOR
SCALE: 1/16" = 1'-0"

M05-2

CLARIFICATIONS AND EXCLUSIONS

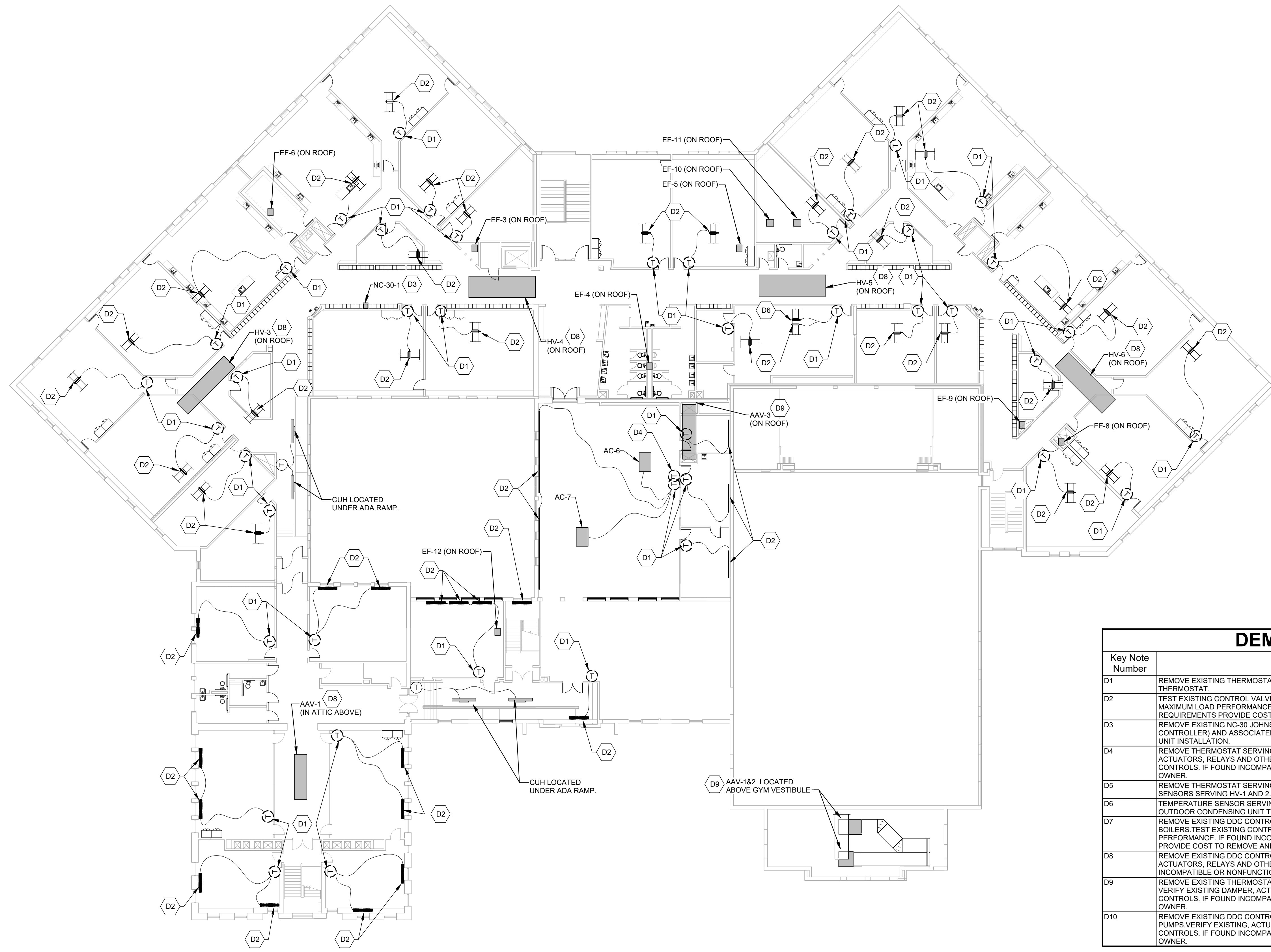
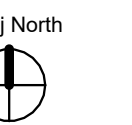
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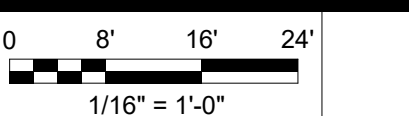
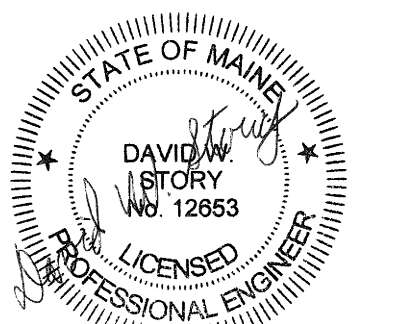
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PA / PE: DWS

Drawn By: MJP

MIDDLE SCHOOL SECOND
FLOOR MECHANICAL
DEMOLITION

M05-3

1 MIDDLE SCHOOL MECHANICAL REMOVAL - SECOND FLOOR

SCALE: 1/16" = 1'-0"

DEMO KEY NOTES

Key Note Number	Key Note Description
D1	REMOVE EXISTING THERMOSTAT AND ASSOCIATED CONTROLS WIRING BACK TO EQUIPMENT SERVED BY THERMOSTAT.
D2	TEST EXISTING CONTROL VALVE(S) AND/OR DAMPER(S) TO ENSURE FULL FUNCTION AT MINIMUM AND MAXIMUM LOAD PERFORMANCE. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D3	REMOVE EXISTING DDC CONTROLLERS AND SENSORS SERVING AIR HANDLING UNITS. VERIFY EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D4	REMOVE EXISTING DDC CONTROLLER AND ASSOCIATED SENSORS SERVING HEATING HOT WATER BOILERS. TEST EXISTING CONTROL VALVE(S) TO ENSURE FULL FUNCTION AT MINIMUM AND MAXIMUM LOAD PERFORMANCE. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D5	REMOVE EXISTING DDC CONTROLLER AND ASSOCIATED SENSORS SERVING HEATING HOT WATER PUMPS. VERIFY EXISTING ACTUATORS, RELAYS AND OTHER CONTROLS ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D6	REMOVE EXISTING THERMOSTAT AND DDC CONTROLLER AND SENSORS SERVING AC-1 ON ROOF ABOVE. VERIFY EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D7	REMOVE EXISTING DDC CONTROLLER AND SENSORS SERVING HX-1 AND ASSOCIATED DHC-1 ON ROOF ABOVE. VERIFY EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.

CLARIFICATIONS AND EXCLUSIONS

- SCOPE DOES NOT INCLUDE REPAIRS OR REPLACEMENT OF MECHANICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO: FANS, CONTROL DAMPERS, LOUVERS, BEARINGS, BOILERS, ETC UNLESS SPECIFICALLY CALLED OUT.
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ALTERNATIVE 1

- ALL PROJECT SCOPE WITHIN YORK HIGH SCHOOL SHALL BE BID AS A SEPARATE ALTERNATIVE FROM THE YORK MIDDLE SCHOOL BASE SCOPE OF WORK.

HARRIMAN

YORK SCHOOL
DEPARTMENT
MECHANICAL
UPGRADES

YORK, MAINE

Harriman Project No. 21295

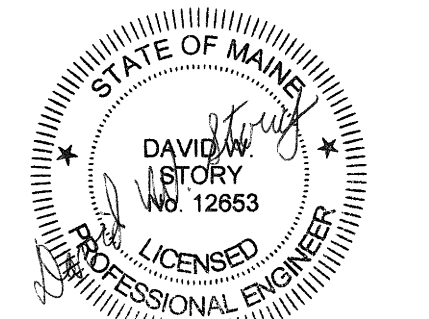
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CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date Revision Description

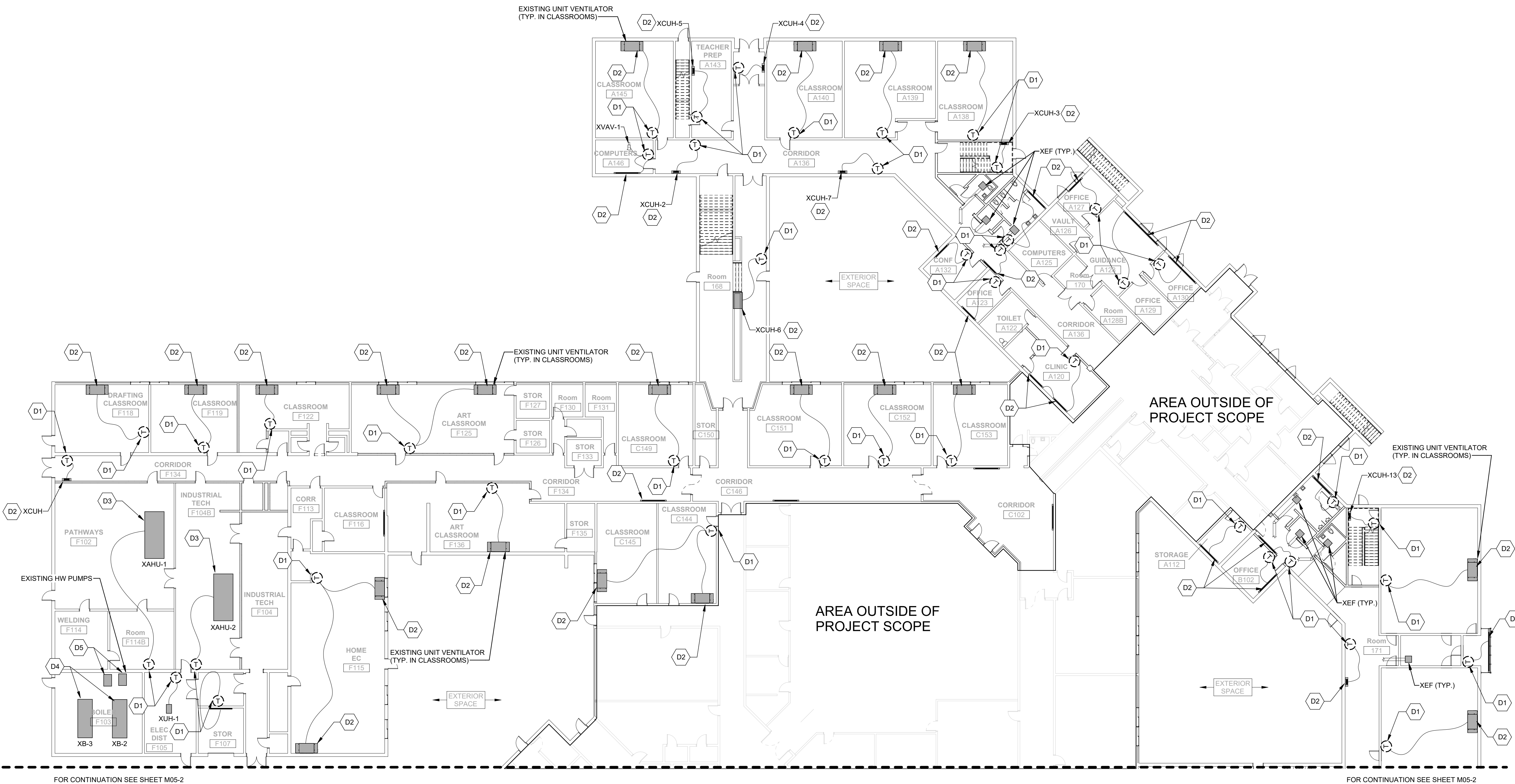


0 8' 16' 24'
1/16" = 1'-0"

PA/PE: DWS
Drawn By: MJP

HIGH SCHOOL FIRST
FLOOR MECHANICAL
DEMOLITION PLAN NORTH

M05-4



DEMO KEY NOTES

Key Note Number	Key Note Description
D1	REMOVE EXISTING THERMOSTAT AND ASSOCIATED CONTROLS WIRING BACK TO EQUIPMENT SERVED BY THERMOSTAT.
D2	TEST EXISTING CONTROL VALVE(S) AND/OR DAMPER(S) TO ENSURE FULL FUNCTION AT MINIMUM AND MAXIMUM LOAD PERFORMANCE. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D3	REMOVE EXISTING DDC CONTROLLERS AND SENSORS SERVING AIR HANDLING UNITS. VERIFY EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D4	REMOVE EXISTING DDC CONTROLLER AND ASSOCIATED SENSORS SERVING HEATING HOT WATER BOILERS TEST EXISTING CONTROL VALVE(S) TO ENSURE FULL FUNCTION AT MINIMUM AND MAXIMUM LOAD PERFORMANCE. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
D5	REMOVE EXISTING DDC CONTROLLER AND ASSOCIATED SENSORS SERVING HEATING HOT WATER PUMPS. VERIFY EXISTING ACTUATORS, RELAYS AND OTHER CONTROLS ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
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HARRIMAN

YORK SCHOOL
DEPARTMENT
MECHANICAL
UPGRADES

YORK, MAINE

Harriman Project No. 21295

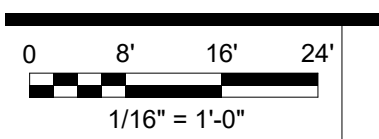
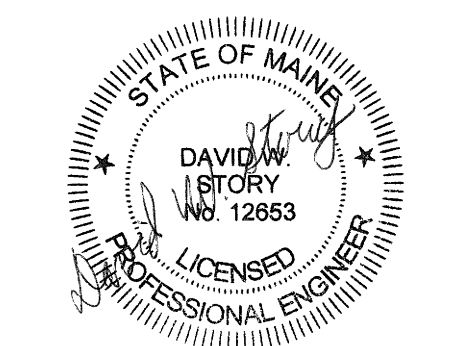
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CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date Revision Description



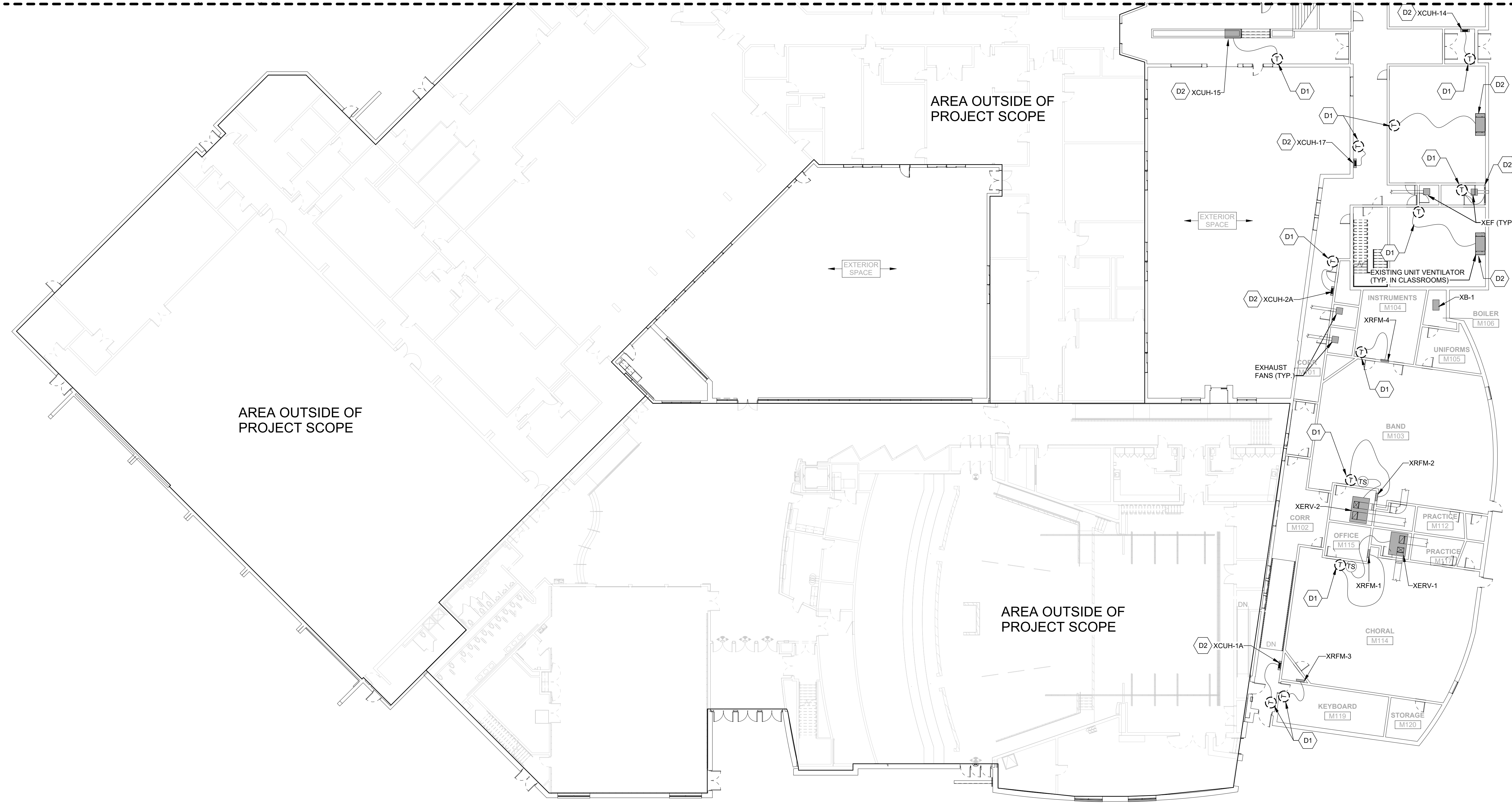
PA/PE: DWS
Drawn By: MJP

HIGH SCHOOL FIRST
FLOOR MECHANICAL
DEMOLITION PLAN SOUTH

M05-5

FOR CONTINUATION SEE SHEET M05-1

FOR CONTINUATION SEE SHEET M05-1



DEMO KEY NOTES

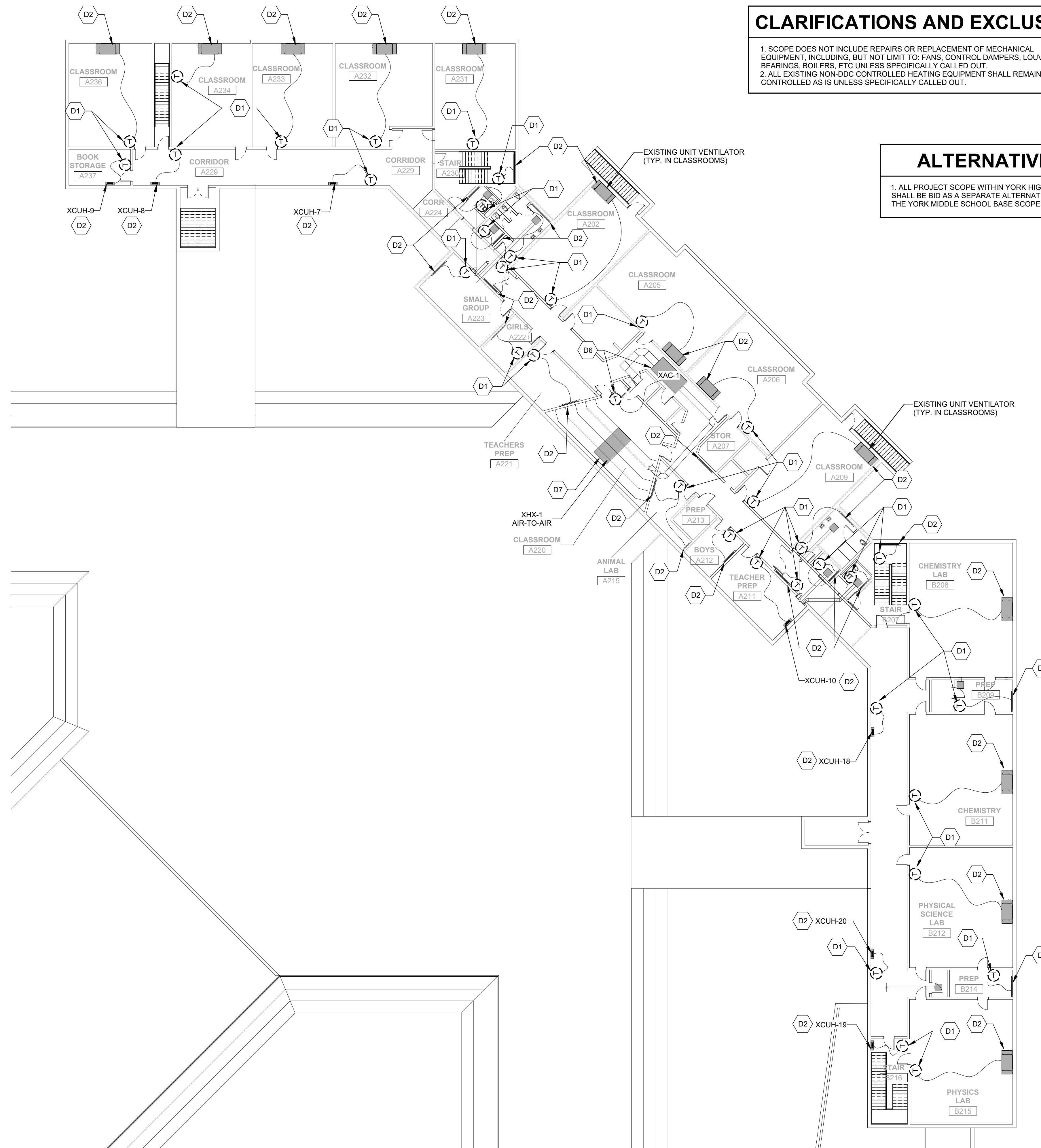
Key Note Number	Key Note Description
D1	REMOVE EXISTING THERMOSTAT AND ASSOCIATED CONTROLS WIRING BACK TO EQUIPMENT SERVED BY THERMOSTAT.
D2	TEST EXISTING CONTROL VALVE(S) AND/OR DAMPER(S) TO ENSURE FULL FUNCTION AT MINIMUM AND MAXIMUM LOAD PERFORMANCE. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.
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D7	REMOVE EXISTING DDC CONTROLLER AND SENSORS SERVING HX-1 AND ASSOCIATED DHC-1 ON ROOF ABOVE. VERIFY EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS ARE COMPATIBLE WITH NEW DDC CONTROLS. IF FOUND INCOMPATIBLE, NONFUNCTIONING, OR UNABLE TO MEET LOAD REQUIREMENTS PROVIDE COST TO REMOVE AND REPLACE TO OWNER.

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ALTERNATIVE 1

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HARRIMAN

YORK SCHOOL
DEPARTMENT
MECHANICAL
UPGRADES

YORK, MAINE

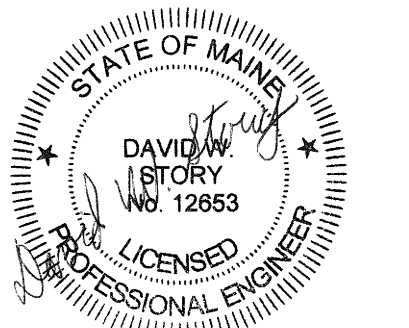
Harriman Project No. 21295



CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date Revision Description



0 8' 16' 24'
1/16" = 1'-0"

PA / PE: DWS

Drawn By: MJP

HIGH SCHOOL SECOND
FLOOR MECHANICAL
DEMOLITION

M05-6

CLARIFICATIONS AND EXCLUSIONS

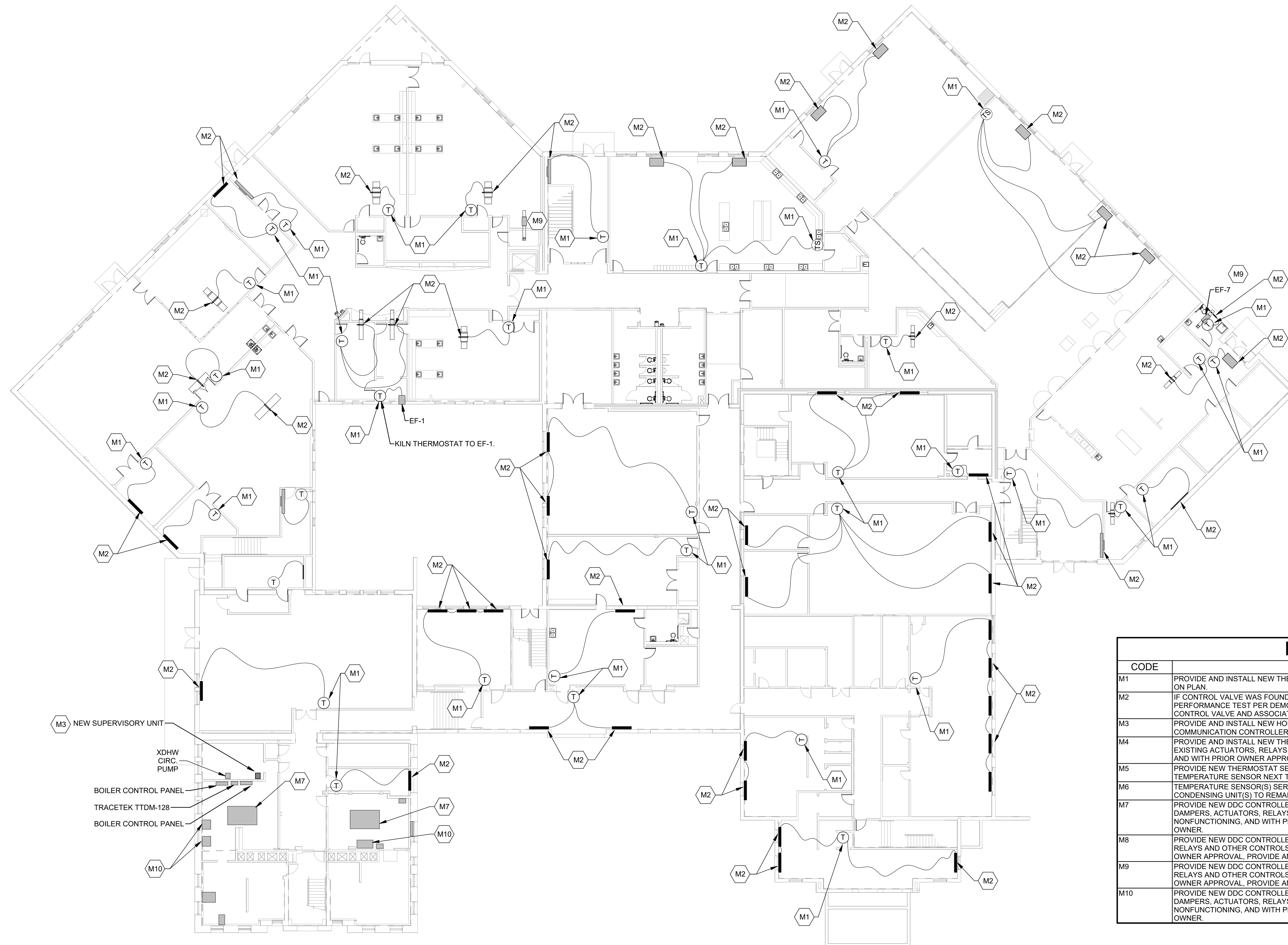
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HARRIMAN

YORK SCHOOL DEPARTMENT MECHANICAL UPGRADES

YORK, MAINE

Harriman Project No. 21295



- M3 NEW SUPERVISORY UNIT
- XDH-W CIRC. PUMP
- BOILER CONTROL PANEL
- TRACETEK TTDM-128
- BOILER CONTROL PANEL
- M7
- M10

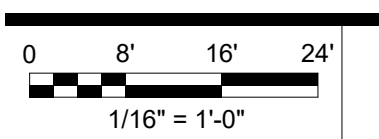
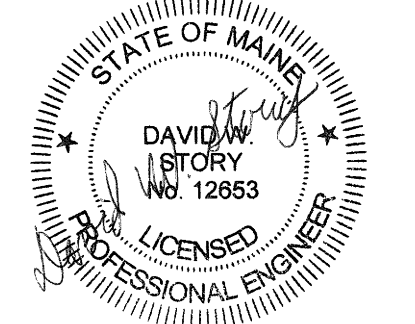
KILN THERMOSTAT TO EF-1

CODE	DESCRIPTION
M1	PROVIDE AND INSTALL NEW THERMOSTAT AND ASSOCIATED CONTROLS WIRING TO EQUIPMENT AS SHOWN ON PLAN.
M2	IF CONTROL VALVE WAS FOUND NONFUNCTIONAL OR PERFORMING OUTSIDE MINIMUM AND MAXIMUM LOAD PERFORMANCE TEST PER DEMO KEY NOTE D2, AND IF APPROVED BY OWNER, PROVIDE AND INSTALL NEW CONTROL VALVE AND ASSOCIATED CONTROL WIRING TO SERVE EQUIPMENT.
M3	PROVIDE AND INSTALL NEW HONEYWELL JACE 8000 CONTROLS SUPERVISORY UNIT (BUILDING NETWORK COMMUNICATION CONTROLLER) AND ASSOCIATED WIRING AS REQUIRED TO INTEGRATE INTO BMS.
M4	PROVIDE AND INSTALL NEW THERMOSTAT SERVING SPACE HEATING EQUIPMENT AS NOTED IN M1. IF EXISTING ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
M5	PROVIDE NEW THERMOSTAT SERVING ROOM HEATING EQUIPMENT AS NOTED IN M1. PROVIDE TEMPERATURE SENSOR NEXT TO THERMOSTAT SERVING HV-1 AND 2.
M6	TEMPERATURE SENSOR(S) SERVING DX COIL, CHILLED WATER COIL, AND ASSOCIATED OUTDOOR CONDENSING UNIT(S) TO REMAIN. INTEGRATE INTO NEW DDC CONTROLS.
M7	PROVIDE NEW DDC CONTROLLERS AND SENSORS SERVING HOT WATER HEATING BOILERS. IF EXISTING DAMPERS, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
M8	PROVIDE NEW DDC CONTROLLERS AND SENSORS SERVING HV UNITS. IF EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
M9	PROVIDE NEW DDC CONTROLLERS AND SENSORS SERVING AAV UNITS. IF EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
M10	PROVIDE NEW DDC CONTROLLERS AND SENSORS SERVING HOT WATER HEATING PUMPS. IF EXISTING DAMPERS, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.

CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date	Revision Description



PA / PE: DWS
 Drawn By: MJP

MIDDLE SCHOOL GROUND FLOOR MECHANICAL

M10-1

CLARIFICATIONS AND EXCLUSIONS

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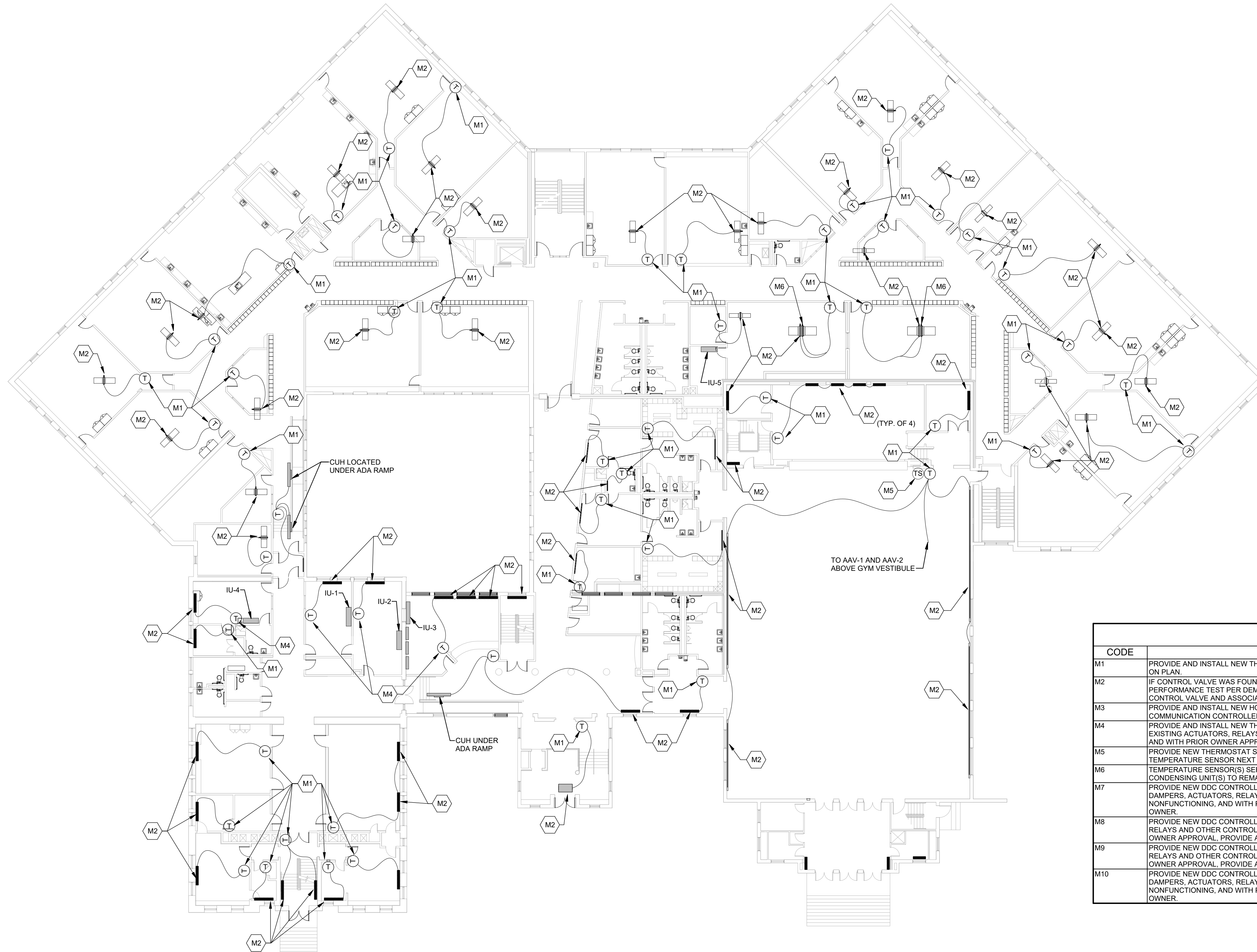
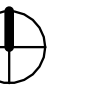
HARRIMAN

YORK SCHOOL
DEPARTMENT
MECHANICAL
UPGRADES

YORK, MAINE

Harriman Project No. 21295

Proj North

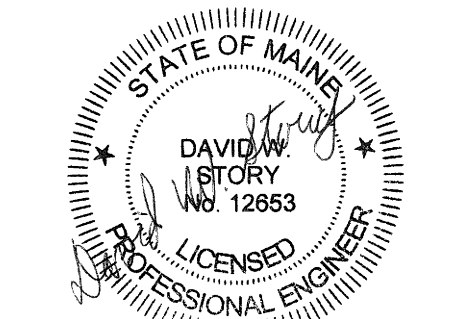


1 MIDDLE SCHOOL MECHANICAL - FIRST FLOOR
SCALE: 1/16" = 1'-0"

CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date Revision Description



0 8' 16' 24'
1/16" = 1'-0"

PA / PE: DWS

Drawn By: MJJP

MIDDLE SCHOOL FIRST
FLOOR MECHANICAL

M10-2

CLARIFICATIONS AND EXCLUSIONS

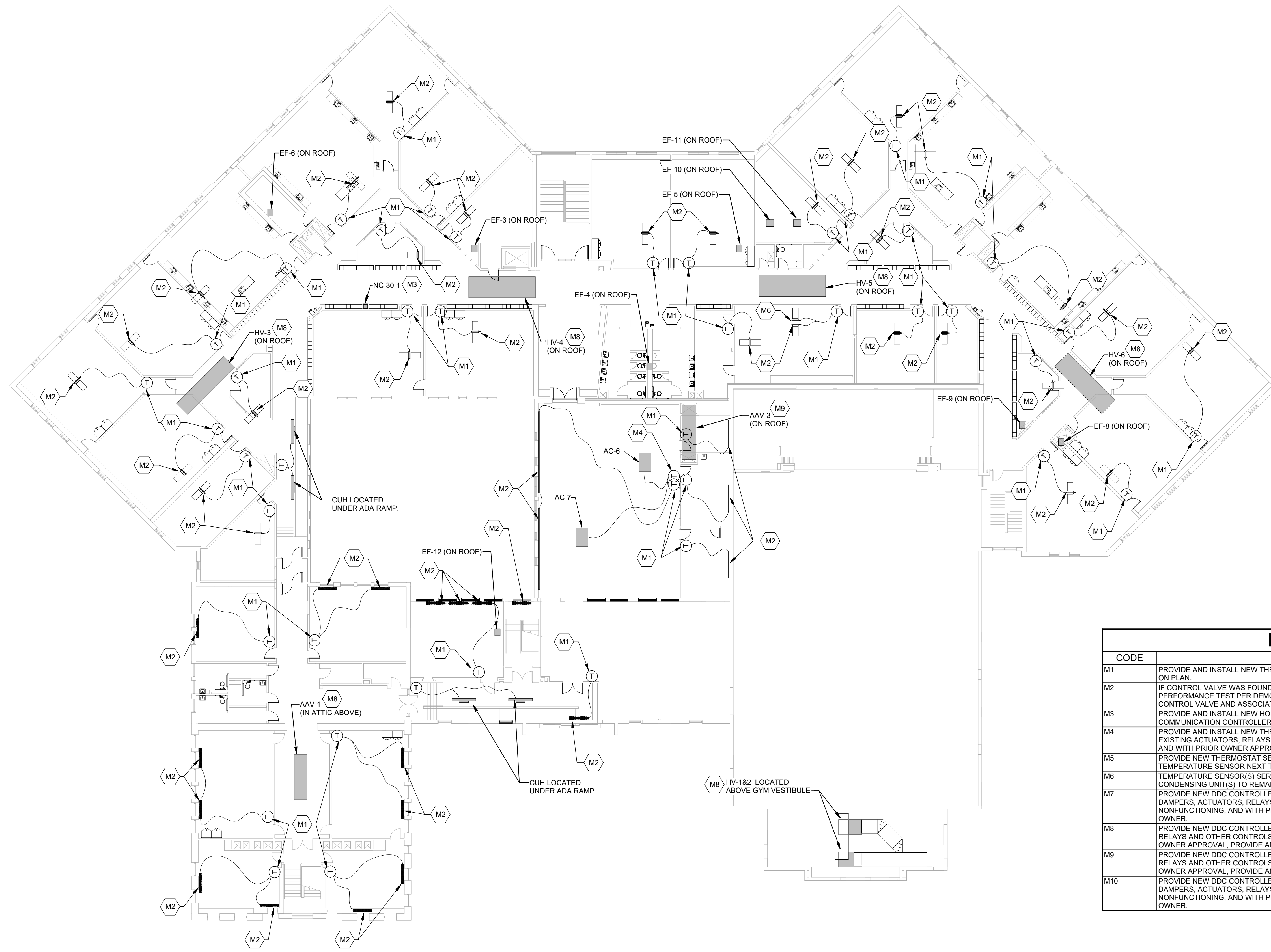
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HARRIMAN

YORK SCHOOL DEPARTMENT MECHANICAL UPGRADES

YORK, MAINE

Harriman Project No. 21295

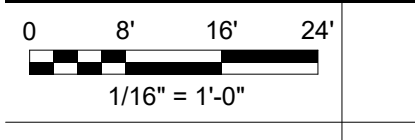
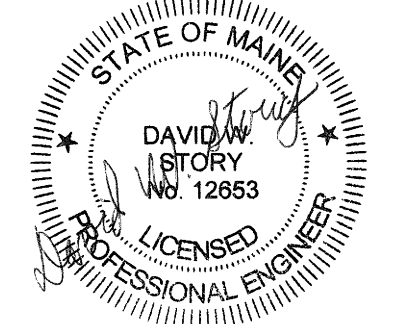


KEY NOTES	
CODE	DESCRIPTION
M1	PROVIDE AND INSTALL NEW THERMOSTAT AND ASSOCIATED CONTROLS WIRING TO EQUIPMENT AS SHOWN ON PLAN.
M2	IF CONTROL VALVE WAS FOUND NONFUNCTIONAL OR PERFORMING OUTSIDE MINIMUM AND MAXIMUM LOAD PERFORMANCE TEST PER DEMO KEY NOTE D2, AND IF APPROVED BY OWNER, PROVIDE AND INSTALL NEW CONTROL VALVE AND ASSOCIATED CONTROL WIRING TO SERVE EQUIPMENT.
M3	PROVIDE AND INSTALL NEW HONEYWELL JACE 8000 CONTROLS SUPERVISORY UNIT (BUILDING NETWORK COMMUNICATION CONTROLLER) AND ASSOCIATED WIRING AS REQUIRED TO INTEGRATE INTO BMS.
M4	PROVIDE AND INSTALL NEW THERMOSTAT SERVING SPACE HEATING EQUIPMENT AS NOTED IN M1. IF EXISTING ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
M5	PROVIDE NEW THERMOSTAT SERVING ROOM HEATING EQUIPMENT AS NOTED IN M1. PROVIDE TEMPERATURE SENSOR NEXT TO THERMOSTAT SERVING HV-1 AND 2.
M6	TEMPERATURE SENSOR(S) SERVING DX COIL, CHILLED WATER COIL, AND ASSOCIATED OUTDOOR CONDENSING UNIT(S) TO REMAIN. INTEGRATE INTO NEW DDC CONTROLS.
M7	PROVIDE NEW DDC CONTROLLERS AND SENSORS SERVING HOT WATER HEATING BOILERS. IF EXISTING DAMPERS, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
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CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date	Revision Description



PA / PE: DWS
 Drawn By: MJP

MIDDLE SCHOOL SECOND FLOOR MECHANICAL

M10-3

KEY NOTES

CODE	DESCRIPTION
M1	PROVIDE AND INSTALL NEW THERMOSTAT AND ASSOCIATED CONTROLS WIRING TO EQUIPMENT AS SHOWN ON PLAN AT 48" AFF.
M2	IF CONTROL VALVE WAS FOUND NONFUNCTIONAL OR UNABLE TO MEET PERFORMANCE TEST PER DEMO KEY NOTE D2, AND IF APPROVED BY OWNER, PROVIDE AND INSTALL NEW CONTROL VALVE AND ASSOCIATED CONTROL WIRING TO SERVE EQUIPMENT.
M3	PROVIDE NEW DDC CONTROLLERS AND SENSORS SERVING AIR HANDLING UNITS. IF EXISTING DAMPERS, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
M4	PROVIDE NEW DDC CONTROLLERS AND SENSORS SERVING HOT WATER HEATING BOILERS. IF EXISTING DAMPERS, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
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M6	PROVIDE THERMOSTAT AND DDC CONTROLLER AND SENSORS SERVING AC-1. IF EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
M7	PROVIDE NEW DDC CONTROLLER AND SENSORS SERVING HX-1 UNIT AND ASSOCIATED DHC-1. IF EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.

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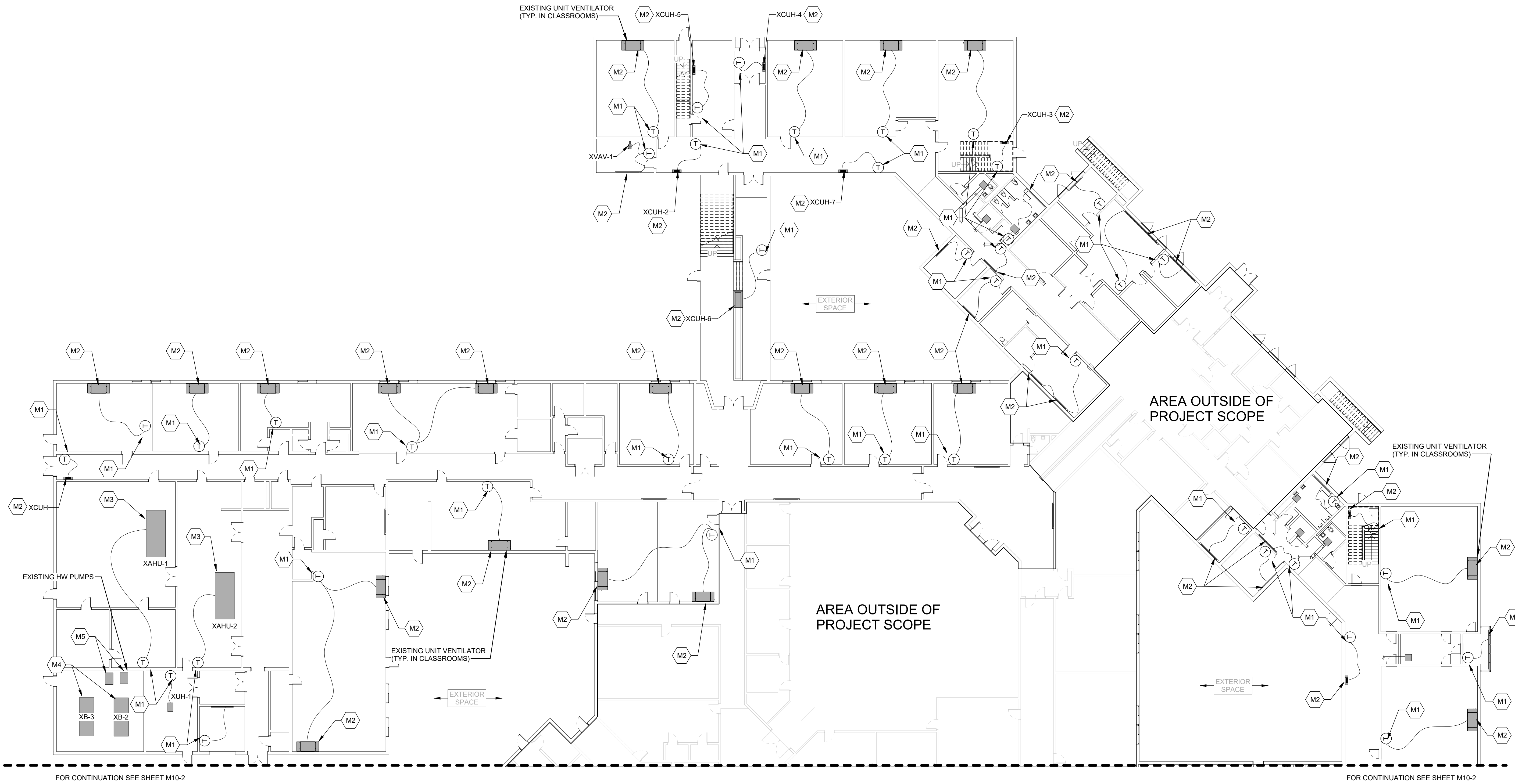
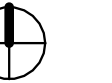
HARRIMAN

YORK SCHOOL
DEPARTMENT
MECHANICAL
UPGRADES

YORK, MAINE

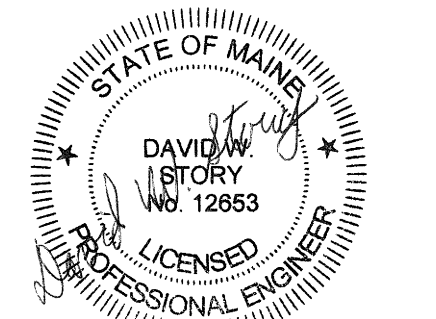
Harriman Project No. 21295

Proj North



MAY 19, 2022

Rev Date Revision Description



0 8' 16' 24'
1/16" = 1'-0"

PA / PE: DWS

Drawn By: MJJP

HIGH SCHOOL FIRST
FLOOR MECHANICAL
PLAN NORTH

KEY NOTES

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M3	PROVIDE NEW DDC CONTROLLERS AND SENSORS SERVING AIR HANDLING UNITS. IF EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
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M5	PROVIDE NEW DDC CONTROLLERS AND SENSORS SERVING HOT WATER HEATING PUMPS. IF EXISTING DAMPERS, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
M6	PROVIDE THERMOSTAT AND DDC CONTROLLER AND SENSORS SERVING AC-1. IF EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
M7	PROVIDE NEW DDC CONTROLLER AND SENSORS SERVING HX-1 UNIT AND ASSOCIATED DHC-1. IF EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.

CLARIFICATIONS AND EXCLUSIONS

- SCOPE DOES NOT INCLUDE REPAIRS OR REPLACEMENT OF MECHANICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO: FANS, CONTROL DAMPERS, LOUVERS, BEARINGS, BOILERS, ETC UNLESS SPECIFICALLY CALLED OUT.
- ALL EXISTING NON-DDC CONTROLLED HEATING EQUIPMENT SHALL REMAIN CONTROLLED AS IS UNLESS SPECIFICALLY CALLED OUT.

ALTERNATIVE 1

- ALL PROJECT SCOPE WITHIN YORK HIGH SCHOOL SHALL BE BID AS A SEPARATE ALTERNATIVE FROM THE YORK MIDDLE SCHOOL BASE SCOPE OF WORK.

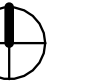
HARRIMAN

YORK SCHOOL
DEPARTMENT
MECHANICAL
UPGRADES

YORK, MAINE

Harriman Project No. 21295

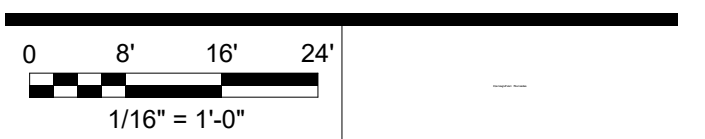
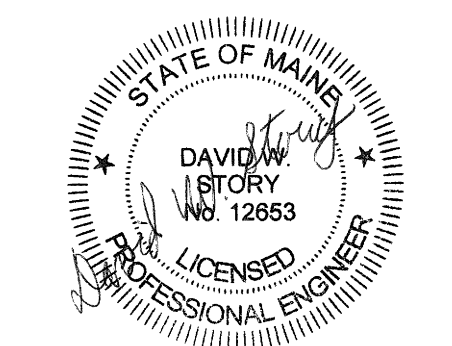
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CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date Revision Description



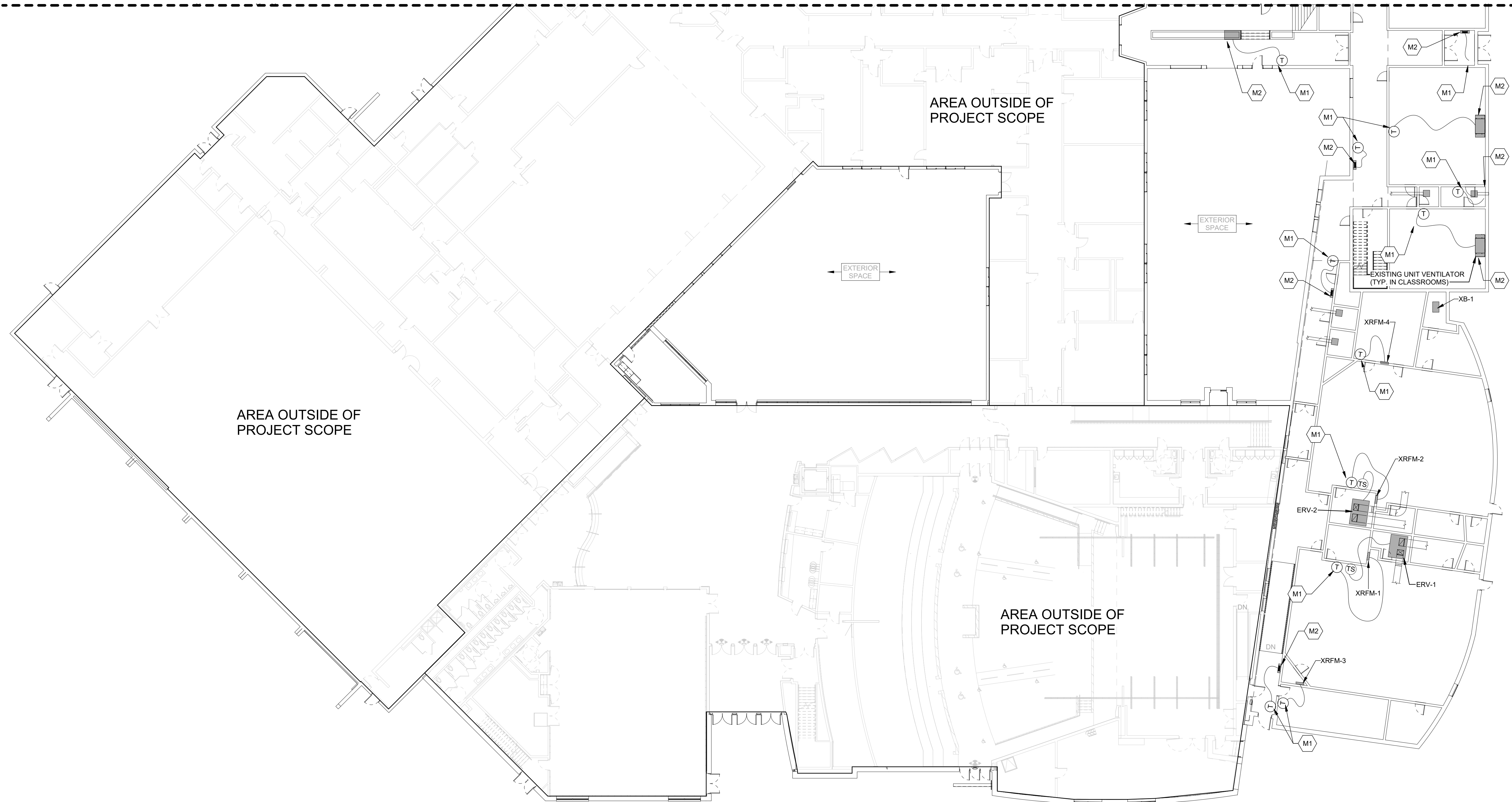
PA / PE: DWS
Drawn By: MJP

HIGH SCHOOL FIRST
FLOOR MECHANICAL
PLAN SOUTH

M10-5

FOR CONTINUATION SEE SHEET M10-1

FOR CONTINUATION SEE SHEET M10-1



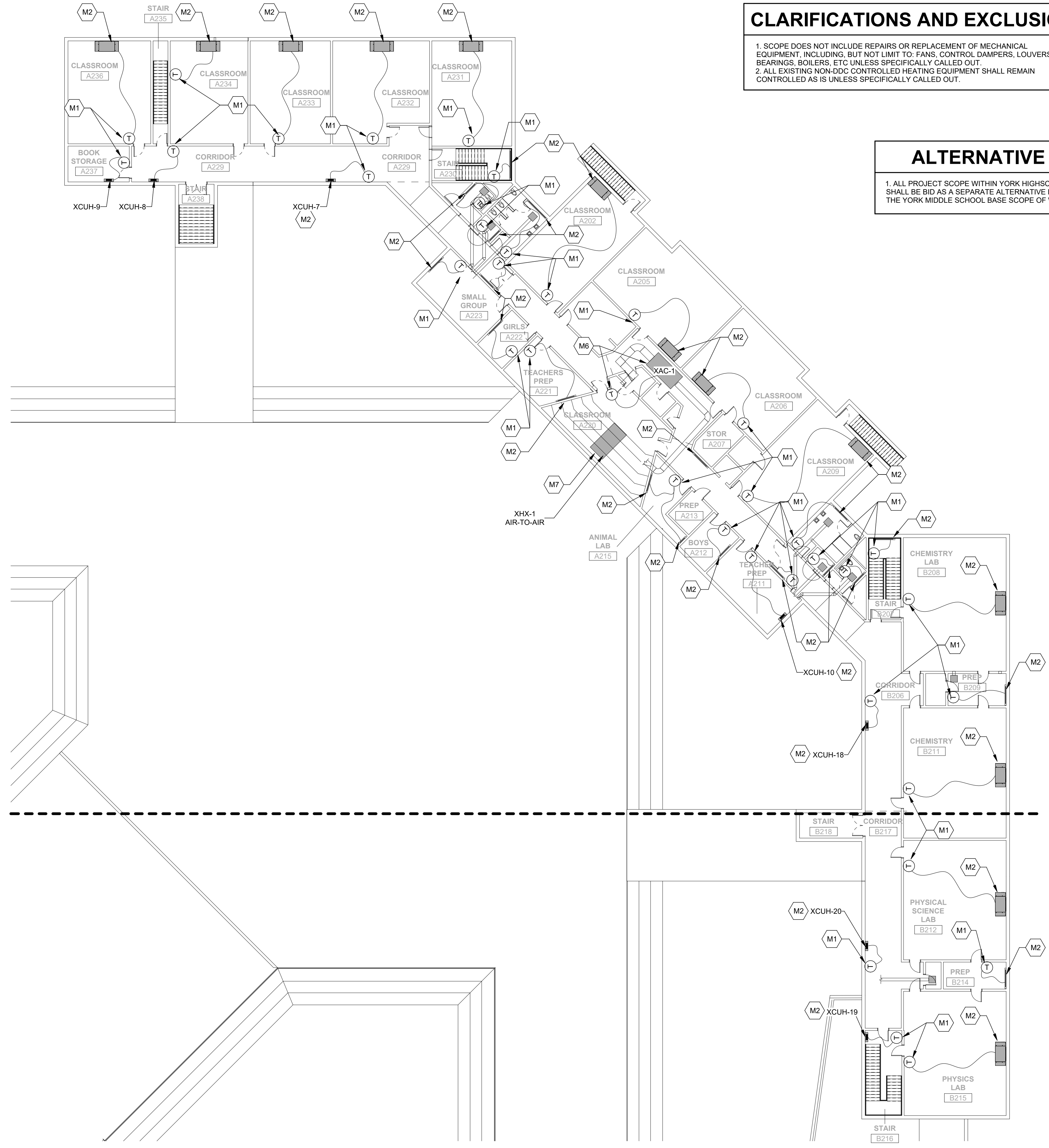
KEY NOTES	
CODE	DESCRIPTION
M1	PROVIDE AND INSTALL NEW THERMOSTAT AND ASSOCIATED CONTROLS WIRING TO EQUIPMENT AS SHOWN ON PLAN AT 48" AFF.
M2	IF CONTROL VALVE WAS FOUND NONFUNCTIONAL OR UNABLE TO MEET PERFORMANCE TEST PER DEMO KEY NOTE D2, AND IF APPROVED BY OWNER, PROVIDE AND INSTALL NEW CONTROL VALVE AND ASSOCIATED CONTROL WIRING TO SERVE EQUIPMENT.
M3	PROVIDE NEW DDC CONTROLLERS AND SENSORS SERVING AIR HANDLING UNITS. IF EXISTING DAMPER, ACTUATORS, RELAYS AND OTHER CONTROLS WERE FOUND INCOMPATIBLE OR NONFUNCTIONING, AND WITH PRIOR OWNER APPROVAL, PROVIDE AND INSTALL NEW AS QUOTED TO OWNER.
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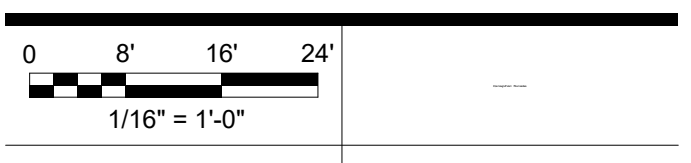
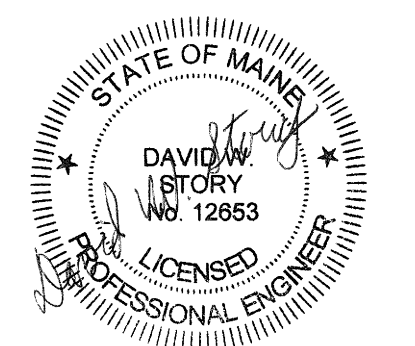
YORK SCHOOL DEPARTMENT MECHANICAL UPGRADES

YORK, MAINE
 Harriman Project No. 21295
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CONSTRUCTION DOCUMENTS

MAY 19, 2022

Rev Date	Revision Description



PA / PE: DWS
 Drawn By: MJP

HIGH SCHOOL SECOND FLOOR MECHANICAL

M10-6