# YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

## CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

#### LIST OF DRAWINGS

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S30-1 ROOF FRAMING PART PLAN, NOTES, AND DETAILS

ARCHITECTURAL DRAWINGS

A00-1 ABBREVIATIONS AND LEGENDS
A10-1 FLOOR PLAN, DEMOLITION PLAN, CEILING PLAN

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ELECTRICAL DRAWINGS
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### Harriman

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

22328

Harriman Project No.

Graphic Scale

0" 1"

CONSTRUCTION DOCUMENTS

JANUARY 30, 20

Revision Date Revision Description

Drawn by: DRE

COVER SHEET

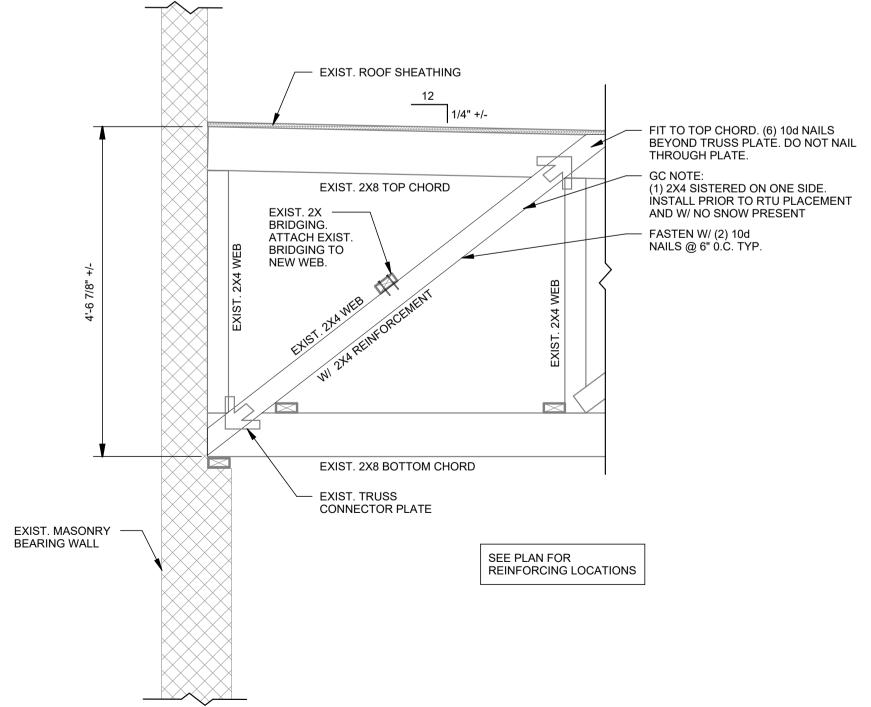
G00-1

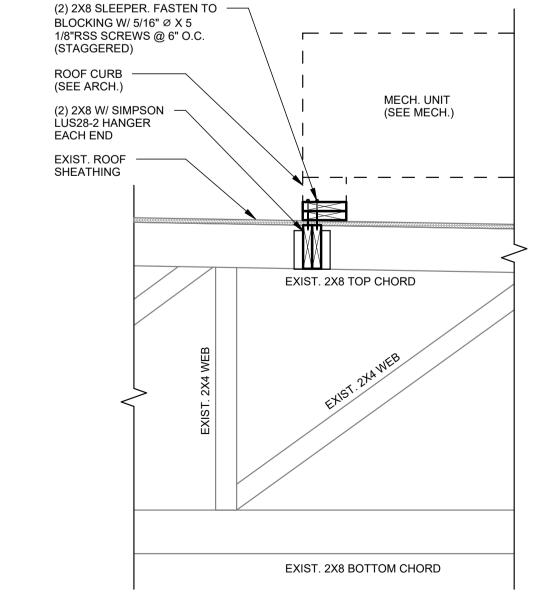
### EXIST. ROOF SHEATHING EXIST. 2X8 TOP CHORD EXIST. 2X8 BOTTOM CHORD HANGER BY - (2) 2X8 W/ SIMPSON LUS28-2 HÁNGER EACH END, TYP. OTHERS (COORD. HANGING HOOD W/ MECH.) MECH. HOOD (SEE MECH.)

#### - TYP. TRUSS WEB REINFORCING SIDE OF MECH. PERIMETER W/ (2) 2X8 BLKG W/ PENETRATION W/ SIMPSON LU28 SIMPSON | | SIMPSON LU28 \* | HANGER EACH LUS28-2 HANGER\_ HANGER EACH EACH END, TYP. (1370LB) 2X8 BLKG EA SIDE OF MECH. PENETRATION W/ SIMPSON LU28 ROOF (2) 2X8 BLKG W/ SIMPSON LUS28-2 HANGER EACH END, EXIST. 2X8 RAFTERS EXIST. WOOD TRUSSES 2'-0" O.C. +/-2'-0" O.C. +/-

### **FRAMING PLAN NOTES:**

- +/- DIMENSIONS SHALL BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY G.C. BEFORE PROCEEDING WITH WORK.
- \*\* INDICATES DIMENSION TO BE COORDINATED W/ APPROVED MECHANICAL EQUIPMENT CURB. ALLIGN SUPPORT FRAME WITH CENTER OF





TYP. SECTION AT MECH. UNIT

#### **GENERAL NOTES:**

- 1. STRUCTURAL DRAWINGS SHALL BE USED WITH ADDITION TO JOB SPECIFICATIONS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THESE DRAWINGS SHALL BE USED TO COORDINATE LOCATIONS AND DIMENSIONS OF ITEMS SUCH AS OPENINGS, CHASES, INSERTS, SLEEVES, DEPRESSIONS, AND OTHER INFORMATION NOT PROVIDED IN THE STRUCTURAL DRAWINGS. ANY INCONSISTENCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING THE WORK AFFECTED.
- 2. CONTRACTOR SHALL REPORT ANY VARIATIONS FOUND AT THE SITE BEFORE PROCEEDING WITH THAT PART OF THE WORK.
- 3. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER ALL OF THE STRUCTURAL WORKED PROVIDED IN THE STRUCTURAL DRAWINGS HAVE BEEN COMPLETED. ALL ERECTION PROCEDURES, SEQUENCES, SHORING, ETC. REQUIRED TO ENSURE THE SAFETY OF THE BUILDING AND ITEMS ASSOCIATED WITH THE BUILDING DURING THE ERECTION/CONSTRUCTION PHASE IS MEANS-AND-METHODS AND IS SOLELY THE CONTRACTORS RESPONSIBILITY INCLUDING BUT NOT LIMITED TO SHORING, TEMPORARY BRACING, ETC.
- 4. SECTIONS AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER.
- 5. ALL FEDERAL, STATE AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED AS APPLICABLE FOR THE PROJECT.

#### **DESIGN INFORMATION:**

 BUILDING CODE
 MAINE UNIFORM BUILDING AND ENERGY CODE INTERNATIONAL BUILDING CODE 2015 ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

2. <u>LIVE LOADS:</u> ROOF LIVE LOAD = UNIFORM ROOF FRAMING GOVERNED BY SNOW LOAD

SNOW LOAD:
GROUND SNOW LOAD (Pg) = 50 PSF EXPOSURE FACTOR (Ce) = THERMAL FACTOR (C<sub>i</sub>) = IMPORTANCE FACTOR (Is) = 39 PSF + DRIFT LOADS FLAT ROOF SNOW LOAD  $(P_f) =$ SNOW DRIFTS AND WIDTHS HAVE BEEN INCLUDED IN ACCORDANCE WITH ASCE 7-10 SECTION 7.7.

WIND LOAD: NOT APPLICABLE

SEISMIC LOAD: NOT APPLICABLE

#### **WOOD FRAMING:**

- ALL WOOD FRAMING SHALL CONFORM TO THE AF&PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) AND WOOD SHEATHING SHALL CONFORM TO THE AMERICAN PLYWOOD ASSOCIATION (APA).
- 2. ALL WOOD MARKED SPF OR NOT MARKED ON THE DRAWINGS ARE TO HAVE THE FOLLOWING MINIMUM ALLOWABLE WORKING STRESSES: Fv = 135 PSI HORIZONTAL SHEAR STRESS

Fb = 875 PSIBENDING STRESS SINGLE MEMBER USE E = 1400000 PSI MODULUS OF ELASTICITY COMPRESSION PARALLEL TO GRAIN Fc = 1150 PSI COMPRESSION PERPENDICULAR TO GRAIN

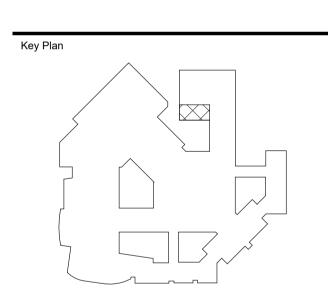
- 3. INDIVIDUAL WOOD FRAMING SHALL BE KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT UNLESS NOTED OTHERWISE ON DRAWINGS.
- 4. JOIST HANGERS SHALL BE INDICATED ON THE DRAWINGS AND MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, OR APPROVED EQUAL (SUBMIT PRODUCT DATA). REFER TO MANUFACTURER'S LITERATURE FOR PROPER HANDLING AND INSTALLATION GUIDELINES. ALL CONNECTION HARDWARE USED IN EXTERIOR APPLICATIONS OR USED WITH PRESSURE TREATED LUMBER SHALL BE GALVANIZED.
- 5. ALL FASTENING NOT SHOWN SHALL CONFORM WITH THE 2015 INTERNATIONAL BUILDING CODE TABLE 2304.10.1 FASTENING SCHEDULE.

YORK HIGH SCHOOL FAMILY SCIENCES **CLASSROOM RENOVATION** 

YORK, MAINE

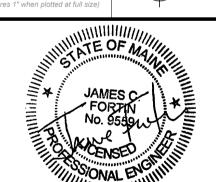
22328

Harriman Project No.



Graphic Scale

Plan North True North



### **CONSTRUCTION DOCUMENTS**

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Drawn by: VMB

**ROOF FRAMING PART** PLAN, NOTES, AND **DETAILS** 

S30-1

ROOF FRAMING PART PLAN

TYP. SECTION AT MECH. HOOD

TYP. TRUSS WEB REINFORCING

### **CONTRACT DRAWING ABBREVIATIONS**

<u>ABBRV</u>	<u>TERM</u>	<u>ABBRV</u>	<u>TERM</u>	<u>ABBRV</u>	<u>TERM</u>	
A/C	AIR CONDITIONING	НВ	HOSE BIB	Т	TREAD	
AB	ANCHOR BOLT	HD	HUB DRAIN	T&G	TONGUE & GROOVE	
	ACOUSTICAL			TD		
AC		HM	HOLLOW METAL		TRENCH DRAIN	
ACT	ACOUSTICAL TILE	HORIZ	HORIZONTAL	TEL	TELEPHONE	
AD	ACCESS DOOR	HP	HIGH POINT	THK	THICK (NESS)	
ADJ	ADJUSTABLE	HSS	HOLLOW STRUCTURAL SECTION	TKBD	TACKBOARD	
AFF	ABOVE FINISH FLOOR	HT	HEIGHT	TOC	TOP OF CONCRETE	
AFG	ABOVE FINISH GRADE	HTG	HEATING	TOF	TOP OF FOOTING	
AL	ALUMINUM	HVAC	HEATING - VENTILATING - AIR	TOS	TOP OF STEEL	
ALT	ALTERNATE	110710	CONDITIONING	TPTN	TOILET PARTITION	SEC
		HYD	HYDRANT			
AP	ACCESS PANEL	סוח	HIDRANI	TV	TELEVISION	
APX	APPROXIMATE			TYP	TYPICAL	
ARCH	ARCHITECT (URAL)	ID	INSIDE DIAMETER			
AVB	AIR VAPOR BARRIER	INS	INSULATE (D) (ION)	UH	UNIT HEATER	SHE
		INT	INTERIOR	UNO	UNLESS NOTED OTHERWISE	OHE
BD	BOARD	INV	INVERT	UR	URINAL	SEC
BIT	BITUMINOUS			UV	UNIT VENTILATOR	
BJ	BAR JOIST	JC	JANITOR'S CLOSET	O V	ONIT VENTIE/CON	
		JT	JOINT		VENT	
BLDG	BUILDING	01	301111	V	VENT	
BLKG	BLOCKING	1717	KITOLIEN	VB	VINYL BASE	SHE
BM	BENCH MARK	KIT	KITCHEN	VCT	VINYL COMPOSITION TILE	ELE\
BOD	BOTTOM OF DECK			VERT	VERTICAL	ELE
BOT	BOTTOM	LAB	LABORATORY	VF	VINYL FABRIC	
BP	BASE PLATE	LAM	LAMINATE (D)	VTR	VENT THRU ROOF	
BSMT	BASEMENT	LAV (L)	LAVATORY	• • • •		
BTU	BRITISH THERMAL UNIT	LB (S)	POUNDS	W	WEST, WIDTH, WIDE	SHE
טום	DIVITION THEIMMAL OWN	LD (O)	LINEAR DIFFUSER			
0.45	CARINET		LINEAR DIFFUSER LINEAL FEET	W/	WITH	ELE
CAB	CABINET	LF		W/O	WITHOUT	
CB	CATCHBASIN	LG	LONG	WC	WATER CLOSET	
CD	CEILING DIFFUSER	LTG	LIGHTING	WCH	WATER CLOSET HANDICAP	
CEM	CEMENT (ITIOUS)	LTL	LINTEL	WCO	WALL CLEANOUT	SHE
CER	CERAMIC	LW	LIMIT OF WORK	WD	WOOD	5
CF	CUBIC FEET			WG	WALL GRILLE	DET
CG	CORNER GRILLE	M	METER (S)	WH	WALL HUNG	
		MAS	MASONRY			
CHBD	CHALKBOARD			WIN	WINDOW	
CHT	CEILING HEIGHT	MAT	MATERIAL	WP	WORKING POINT	CLIE
CI	CONTINUOUS INSULATION	MAX	MAXIMUM	WWF	WELDED WIRE FABRIC	SHE
CJT	CONTROL JOINT	MECH	MECHANICAL			
CL	CLOSET	MED	MEDIUM			
CLG	CEILING	MET	METAL			
CMPST	COMPOSITE	MFR	MANUFACTURE (R)			
		MH	MANHOLE			
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM			
CO	CLEANOUT					
COL	COLUMN	MISC	MISCELLANEOUS	SYMBOLS	S USED AS ABBREVIATIONS	
CONC	CONCRETE	MO	MASONRY OPENING			
CONN	CONNECT	MR	MOP RECEPTOR	L	ANGLE	
CONST	CONSTRUCTION	MT	METAL THRESHOLD		CENTERLINE	
CONT	CONTINUE (OUS)	MTD	MOUNTED	Ę	CENTERLINE	
	• •	2		Γ	CHANNEL	
CONTR	CONTRACT (OR)	NI .	NORTH	<u>-</u>	DIAMETER	
CORR	CORRUGATED	N		Ø		
CPT	CARPET (ED)	NA	NOT APPLICABLE	ዊ	PLATE	
CT	CERAMIC TILE	NIC	NOT IN CONTRACT		SQUARE	
CUH	CABINET UNIT HEATER	No	NUMBER		COUNT	
CV	CONVECTOR	NTS	NOT TO SCALE			
CW	COLD WATER					
		OC	ON CENTER (S)			
CY	CUBIC YARD	OD	OUTSIDE DIAMETER			
DF	DRINKING FOUNTAIN	OFF	OFFICE			
DG	DOOR GRILLE	ОН	OVERHEAD			
DH	DOUBLE HUNG	OPG	OPENING			
DIA	DIAMETER	OPH	OPPOSITE HAND			
DIAG	DIAGONAL	OPP	OPPOSITE			
DIAG	DIMENSION	<del>-</del>				
		Р	PLATE			
DIV	DIVISION					
DN	DOWN	PAR	PARALLEL			
DTL	DETAIL	PERP	PERPENDICULAR			
DWG	DRAWING	PFN	PREFINISHED			
		PL	PROPERTY LINE			
E	EAST	PLAM	PLASTIC LAMINATE			
		PLUMB	PLUMBING			
EB ==	EXPANSION BOLT					
EF	EXHAUST FAN	PNL	PANEL PANE (ED)			
EIFS	EXTERIOR INSULATED FINISH	PNT	PAINT (ED)			
•	SYSTEM	PT	PRESSURE TREATED			

PT

PTN

PVC

PWD

REF

REV

RM

RO

SD

SDMH

SEC

SHT

SIM

SK

SQ

SS

SSK

STD

STL

STOR

SYS

STRUC

ROW

PRESSURE TREATED

POLYVINYL CHLORIDE

PARTITION

PLYWOOD

RISER

**RADIUS RUBBER BASE** 

QUARRY TILE

**ROOF DRAIN** 

REFERENCE

REVISION (S)

ROOM

SOUTH

ROOF LEADER

**ROUGH OPENING** 

SOUND ATTENUATING BATTS

STORM DRAIN MANHOLE

SOLID MASONRY UNIT

SPECIFICATION (S)

STAINLESS STEEL

SERVICE SINK

STANDARD

STORAGE

SYSTEM

STRUCTURAL

SYMMETRY (ICAL)

STEEL

RIGHT OF WAY

STORM DRAIN

SECTION

SHEET

SIMILAR

SQUARE

REFRIGERATOR REQUIRE (D)

SYSTEM

**EQUAL** 

EACH SIDE

**ESTIMATE** 

**EXISTING** 

**EXPANSION** 

**EXTERIOR** 

FIRE ALARM

FRESH AIR INTAKE

FLOOR CLEANOUT

FIRE EXTINGUISHER

FACE OF CONCRETE

FACE OF STUD

GAGE, GAUGE

GALVANIZED

GRAB BAR

GLASS

FIRE EXTINGUISHER CABINET

FIBERGLASS REINFORCED PANEL

GENERAL CONTRACT (OR)

GYPSUM DRY WALL

FLOOR DRAIN

FOUNDATION

FINISH (ED)

FLASHING

FACE OF

FOOTING

FLOOR (ING)

FLEXIBLE CONNECTION

ELEC

EP EQ

ES

EST

**EWC** 

EXG

EXP

EXT

FC

FCO

FD

FDTN

FIN

FLG

FLR

FO

FOS

FTG

GB

GL

**EXPANSION JOINT** 

ELECTRIC PANEL

EXHAUST REGISTER

ELECTRIC WATER COOLER

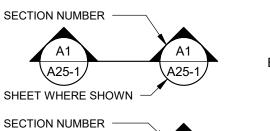
ELEVATION (S)

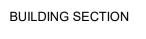
ELECTRIC (AL)

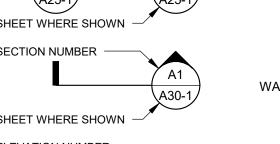
### **GRAPHIC SYMBOLS**

### PLAN - SECTION

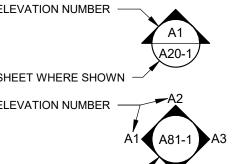
### VIEW TITLE VIEW TITLE VIEW SCALE PLAN, ELEVATION, SECTION OR DETAIL NUMBER





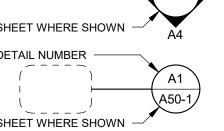


WALL SECTION

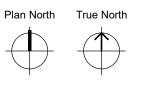


EXTERIOR ELEVATION

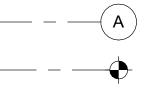
INTERIOR ELEVATION



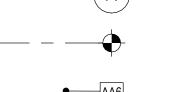
DETAIL



PLAN / TRUE NORTH



COLUMN REFERENCE GRID



WALL OR PARTITION TYPE

LEVEL LINE



ROOM NAME AND NUMBER



EQUIPMENT OR FURNITURE NUMBER



DOOR OR BORROWED LITE NUMBER



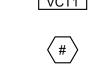
WINDOW OR ALUMINUM GLAZED FRAME TYPE



CEILING TYPE AND HEIGHT AFF

FLOOR FINISH

REVISION CLOUD



KEYNOTE OR MATERIAL TAG

### MATERIAL INDICATIONS

#### PLAN - SECTION

	<u> </u>
	EARTH
	POROUS FILL (STONE OR GRAVEL, ETC)
TATANIAN AMAWAMAYAYAWAMAYAYAWAMAYAYAYAYAYAYAYAYAY	ROCK
8 - 14 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	CONCRETE
	BRICK (COMMON OR FACE)
	CONCRETE MASONRY UNITS (CML
	METAL (LARGE SCALE)
	PLYWOOD (LARGE SCALE)
	WOOD, FINISHED
	WOOD, ROUGH

INSULATION (LOOSE OF			
INSULATION (RIGID)			
GLASS (LARGE SCALE)			

**CERAMIC TILE** 

INSULATION (LOOSE OR BATT)

GYPSUM WALL BOARD (FIBERBOARD, ETC)
PLASTER, SAND, CEMENT, GROUT
ACOUSTICAL TILE
RESILIENT FLOORING

### **ELEVATIONS**

METAL (SMALL SCALE)

CONCRETE, PLASTER
SHEET METAL
GLAZING





### SPECIAL INDICATIONS PARTITION CONSTRUCTION - PLAN

	EXISTING PARTITIONS TO REMAIN
[]]]	EXISTING PARTITIONS TO BE REMOVED
	STEEL STUD PARTITION

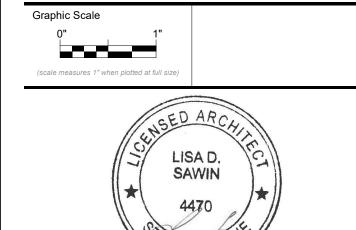
WOOD STUD PARTITION
CMU PARTITION

1 HOUR FIRE RESISTIVE RATED PARTITION
2 HOUR FIRE RESISTIVE RATED PARTITION

### Harriman

YORK HIGH SCHOOL FAMILY SCIENCES **CLASSROOM RENOVATION** 

YORK, MAINE	
Harriman Project No.	22328



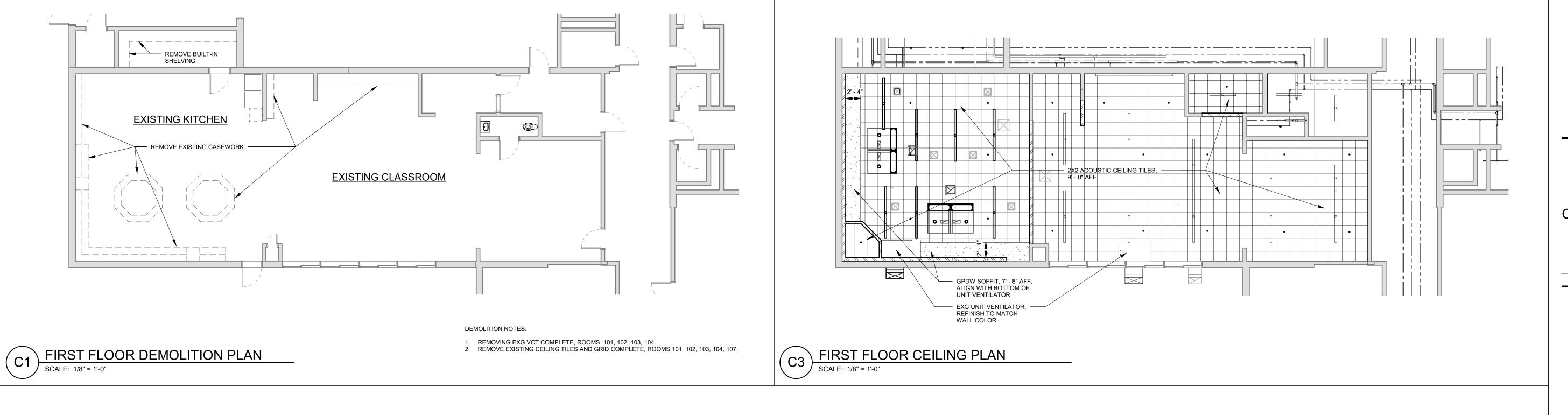
### CONSTRUCTION DOCUMENTS

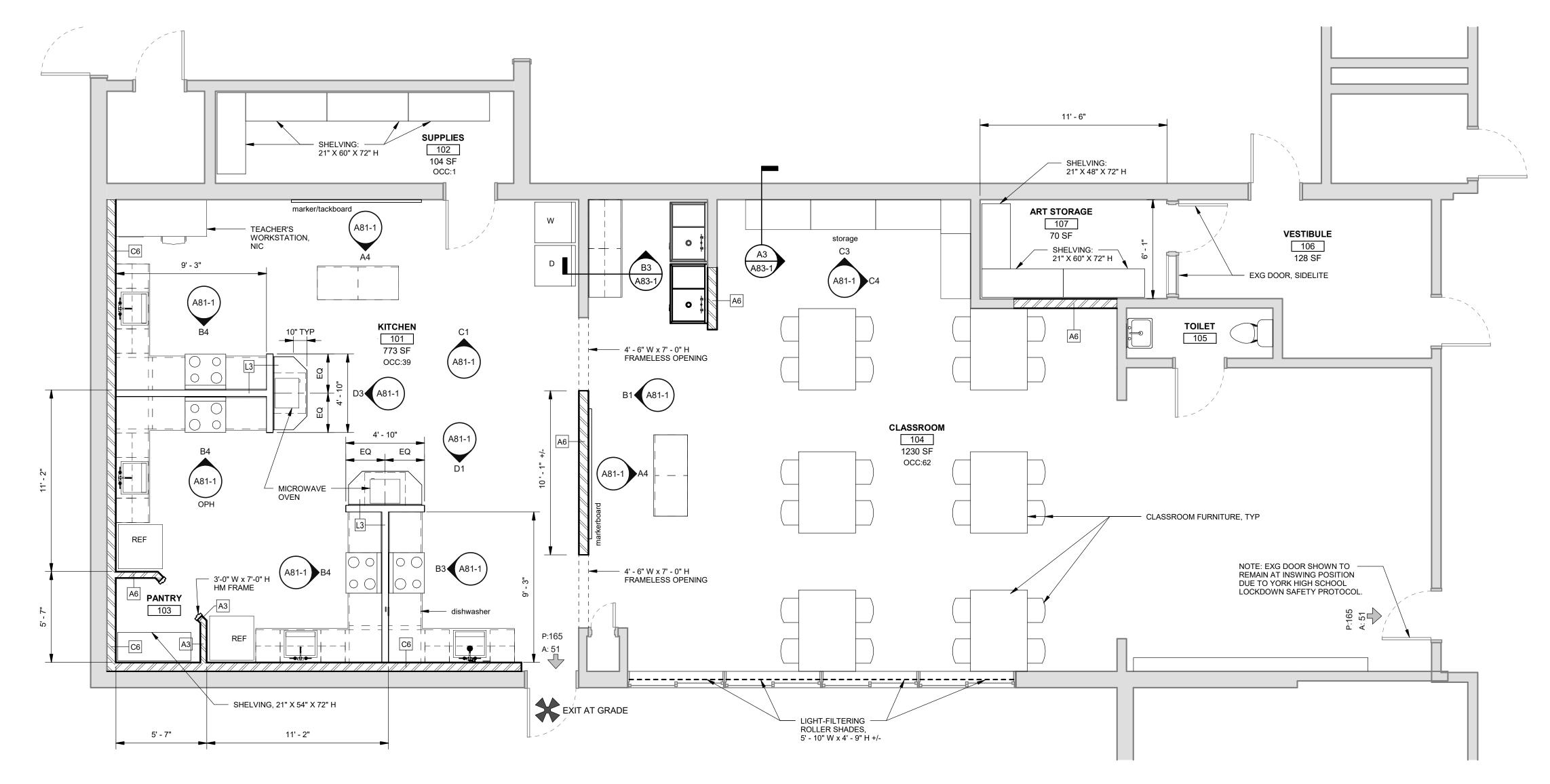
JANUARY 30, 2024

Revision Description

ABBREVIATIONS AND LEGENDS

Drawn by: DRE





FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"



### IBC 2015: CODE DATA

USE GROUP CLASSIFICATION: EDUCATIONAL GROUP E

TYPE VB (COMBUSTIBLE) TYPE OF CONSTRUCTION: RENOVATED FLOOR AREA: 2305 SF FIRE SUPPRESSION: FULLY SPRINKLERED, SUPERVISED SYSTEM FLAME SPREAD RATING, ROOMS OR ENCLOSED SPACES CLASS C INTERIOR FLOOR FINISH REQ. CLASS I OR CLASS II TRAVEL DISTANCE COMMON PATH OF TRAVEL OCCUPANT LOAD SPACE CLASSROOMS STORAGE TOTAL OCCUPANT LOAD GENERAL NOTES: ALL WORK SHALL CONFORM TO LOACL AND STATE CODES,

ORDINANCES AND REQUIREMENTS, ACCESSIBILITY PER A.D.A.A.G.

### NFPA 101 2018: CODE DATA

USE GROUP CLASSIFICATION: EXISTING EDUCATIONAL OCCUPANCY TYPE OF CONSTRUCTION: UNPROTECTED V (000) RENOVATED FLOOR AREA: FIRE SUPPRESSION: FULLY SPRINKLERED, SUPERVISED SYSTEM FLAME SPREAD RATING, ROOMS OR ENCLOSED SPACES CLASS C CLASS A OR CLASS B INTERIOR FLOOR FINISH REQ. NOT TO EXCEED 250' TRAVEL DISTANCE NOT TO EXCEED 75' COMMON PATH OF TRAVEL OCCUPANT LOAD FUNCTION CLASSROOM SPACE CLASSROOMS STORAGE STORAGE 104 SF TOTAL OCCUPANT LOAD GENERAL NOTES: ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES,

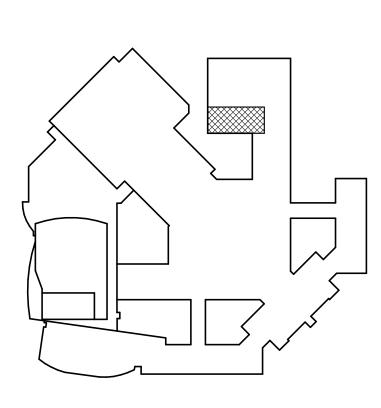
ORDINANCES AND REQUIREMENTS, ACCESSIBILITY PER A.D.A.A.G.



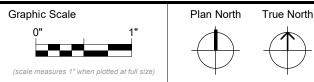
### Harriman

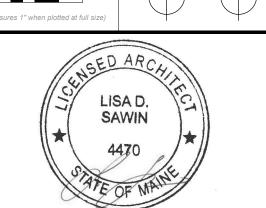
YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK,	MAINE
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KEY PLAN





### **CONSTRUCTION DOCUMENTS**

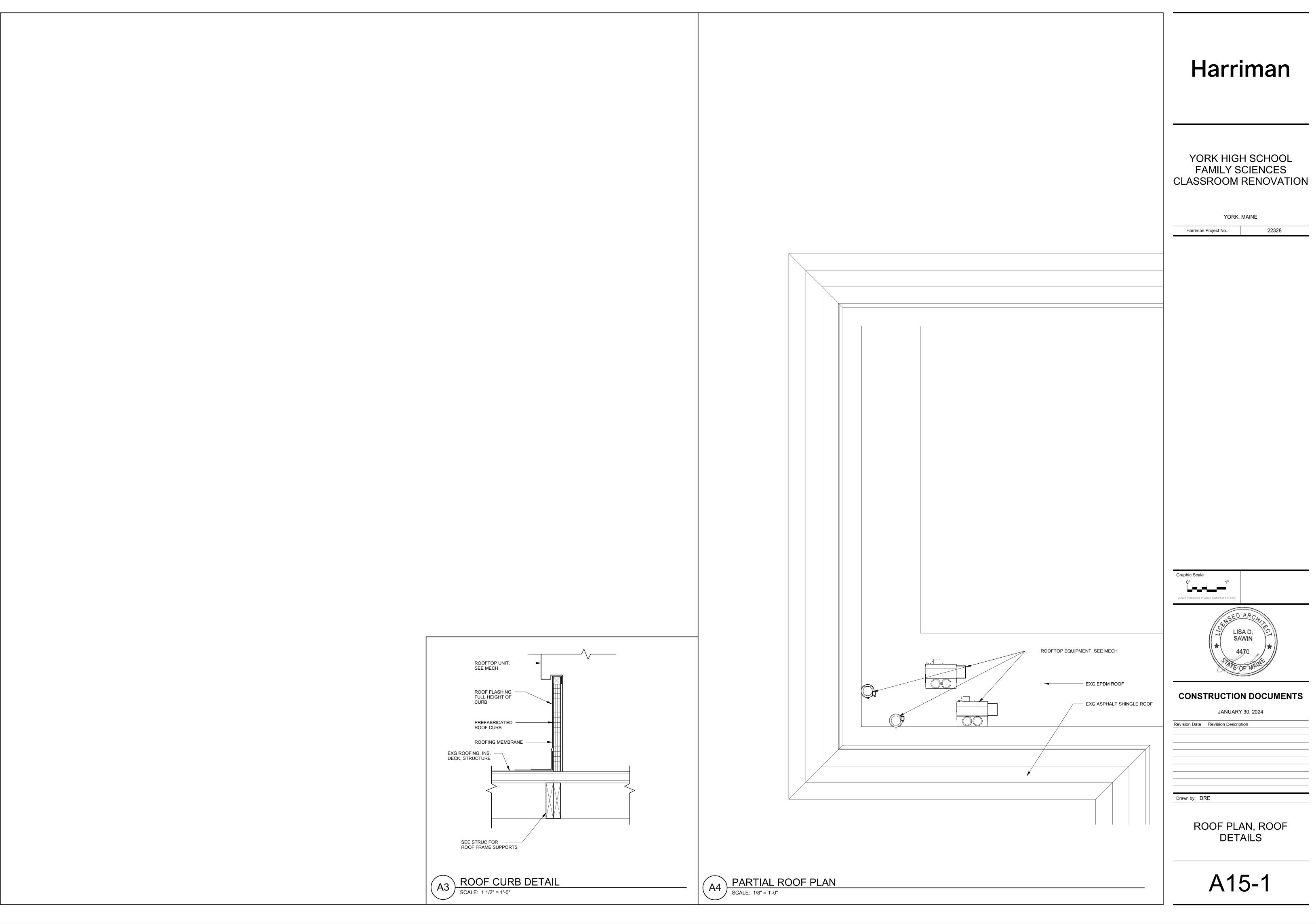
JANUARY 30, 2024

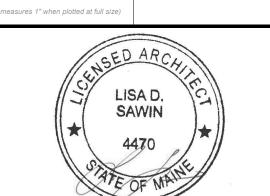
Revision Date Revision Description

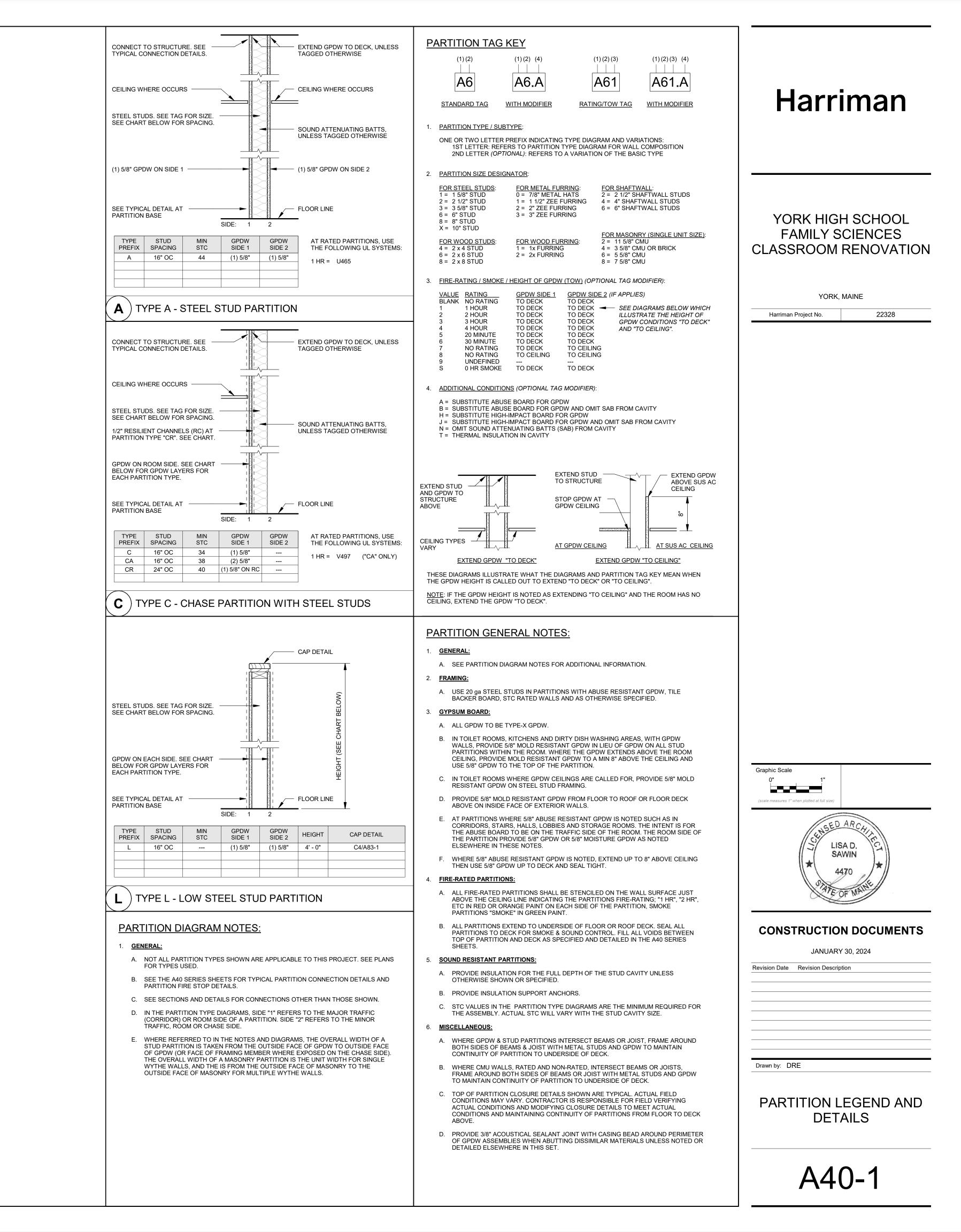
Drawn by: DRE

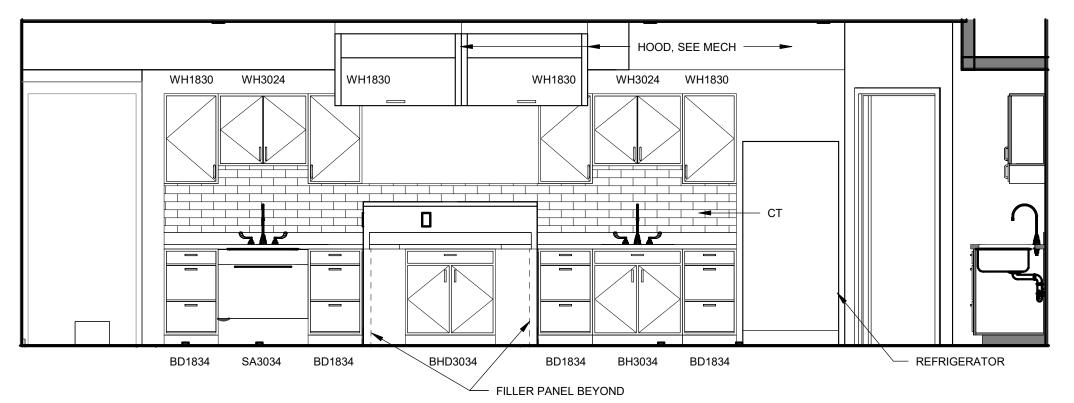
FLOOR PLAN, DEMOLITION PLAN, CEILING PLAN

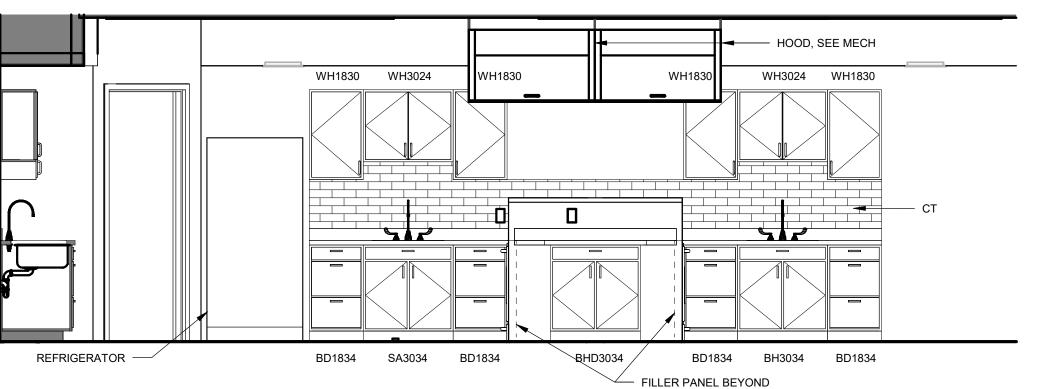
A10-1











YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No. 22328

### **GENERAL NOTES**

- PROVIDE FILLER PANELS AND SCRIBES
- RESILIENT WALL BASE TO BE INSTALLED AT ALL KNEE HOLES, SIDES, AND AROUND ALL PENINSULA UNITS.
- SEE SPECIFICATIONS FOR COUNTERS AND SHELVING TYPES.
- 4. DIVERSIFIED WOODCRAFTS STORAGE CABINETS: CONTACT: (800) 260-2776
- A. MAPLE TOTE TRAY STORAGE CABINET SKU: SHA-TTC-48 48" W X 84" H.
- B. ACCESS TOTE TRAY & SHELF STORAGE CABINET SKU: DIV-351-4822M 48" W X 84" H
- C. TALL WOOD STORAGE CABINET
- SKU: SHA-GSC-22 48" W X 22" D X 84" H

### CASEWORK LEGEND

PREFIX HEIGHT (NOMINAL)

XXWWHH

### PREFIX:

A = ADA COMPLIANT B = BASE D = DRAWER

D = DRAWER S = SINK O = OPEN T = TALL

O = OPEN T = TALL H = HINGE DOOR W = WALL

Graphic Scale

O"

1"

(scale measures 1" when plotted at full size)



### CONSTRUCTION DOCUMENTS

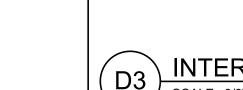
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INTERIOR ELEVATIONS, ROOM FINISH SCHEDULE

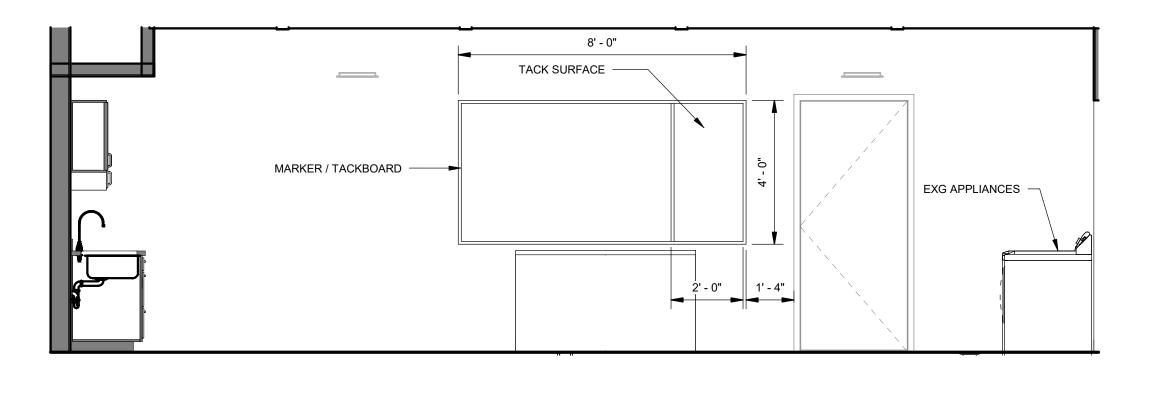
A81-1

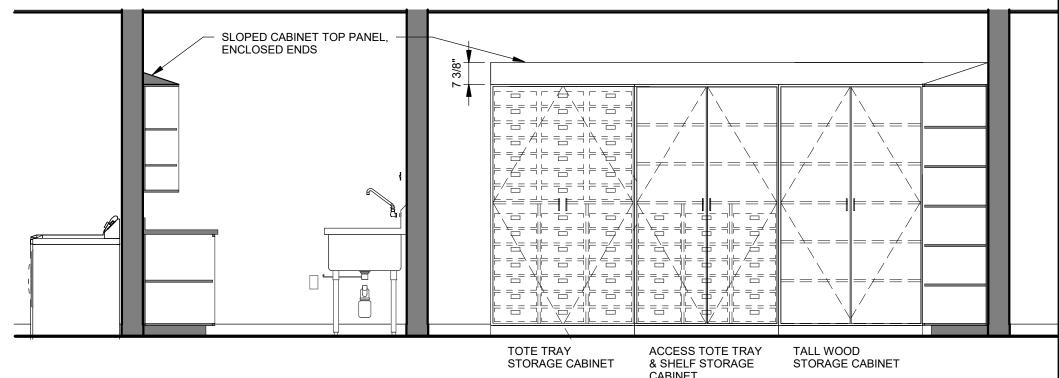




SCALE: 3/8" = 1'-0"

SCALE: 3/8" = 1'-0"







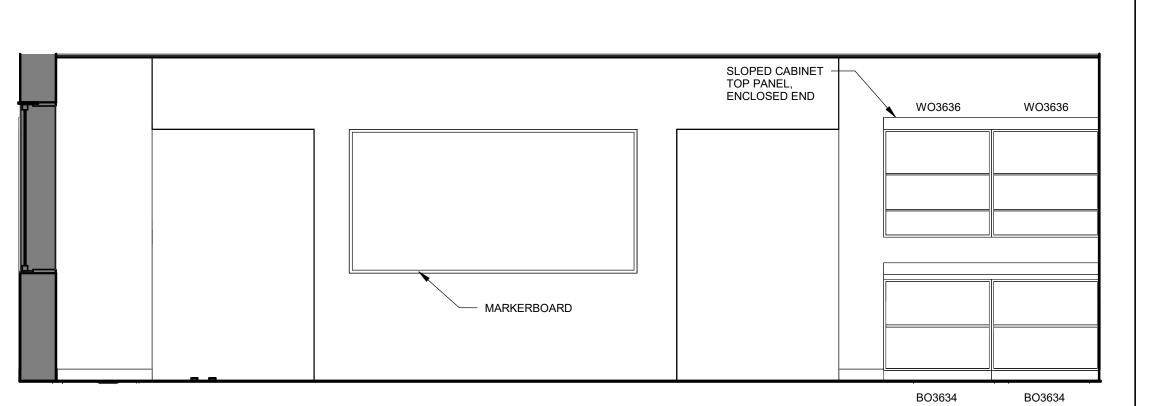
TALL WOOD

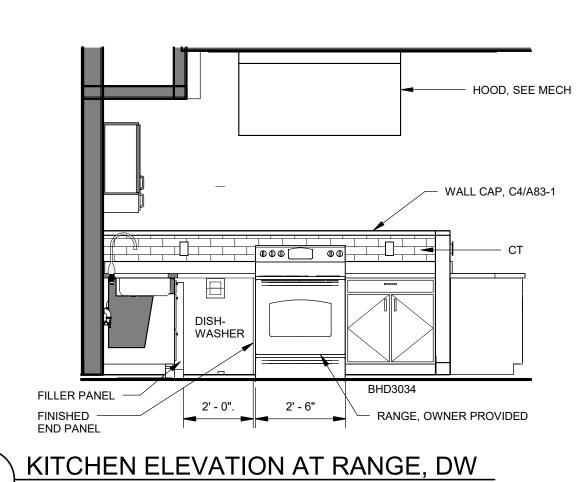
- SLOPED CABINET TOP PANEL, ENCLOSED ENDS



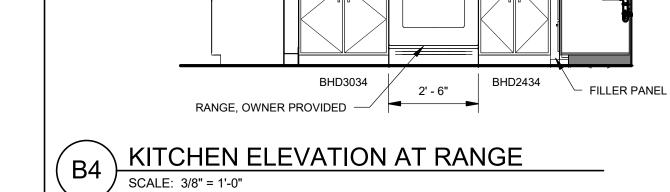
INTERIOR ELEVATION

SCALE: 3/8" = 1'-0"





CLASSROOM ELEVATION AT ART STORAGE



HOOD, SEE MECH -

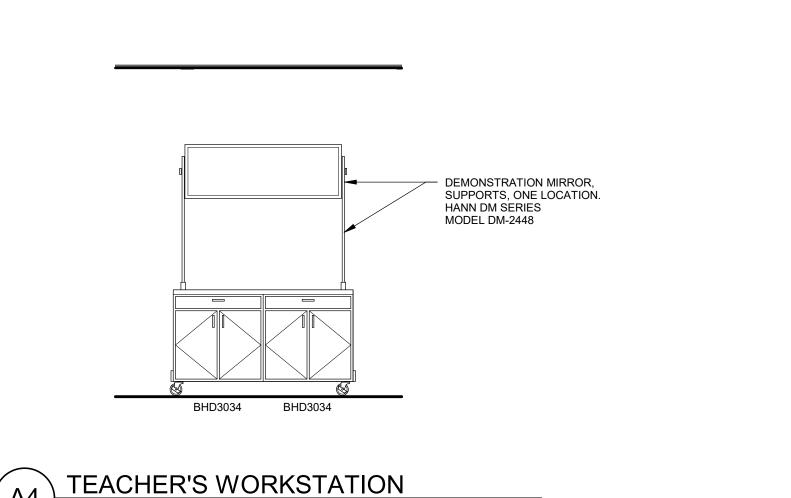
SCALE: 3/8" = 1'-0"

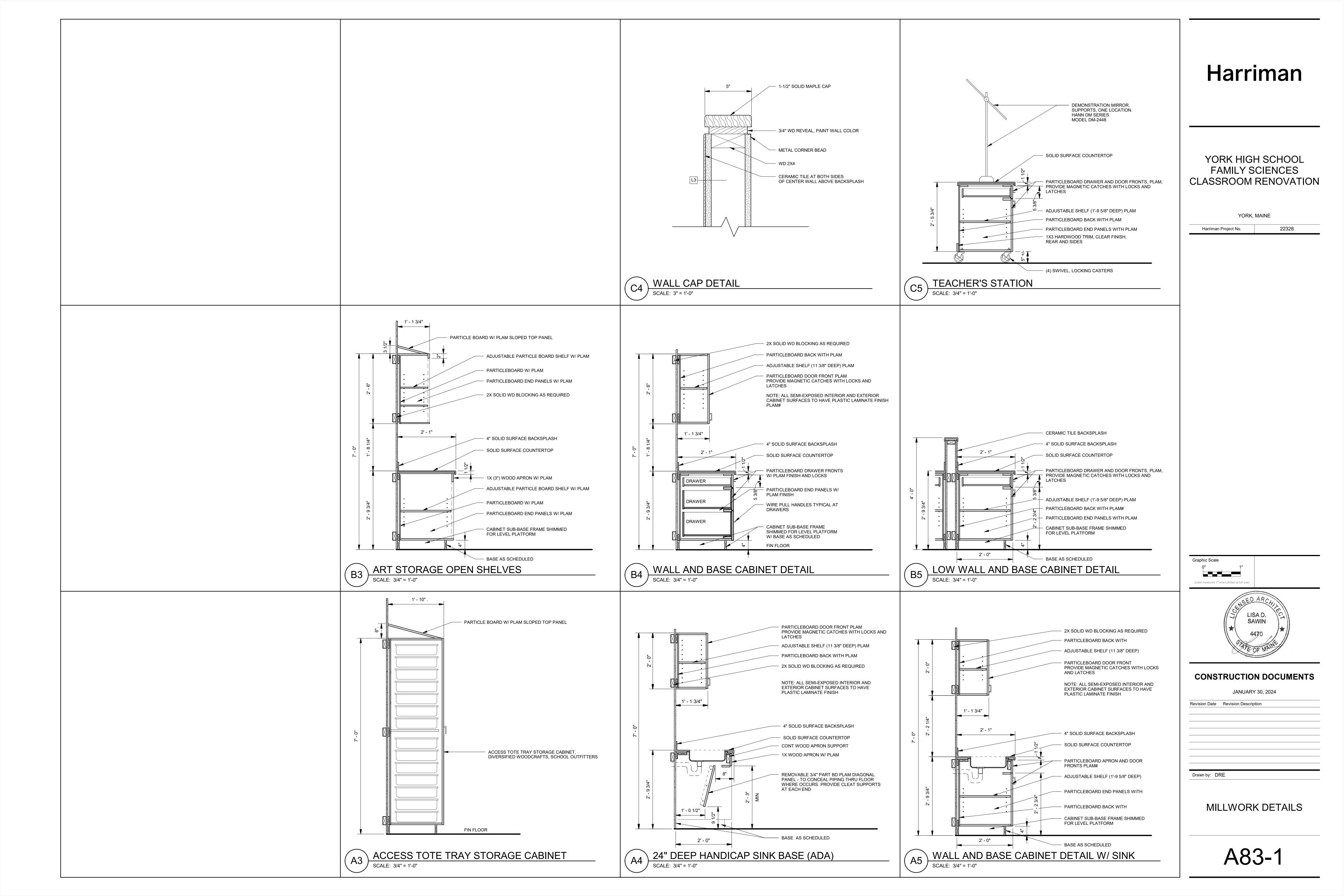
B1 CLASSROOM ELEVATION

SCALE: 3/8" = 1'-0"

ROOM FINISH SCHEDULE								
	ROOM	FLOOR	BASE E			VALLS		REMARKS
No.	NAME	FLC	ВА	N	Е	S	W	KLWAKKS
1ST FLO	1ST FLOOR							
101	KITCHEN	RES	RB	P1	P1	P1	P1	
102	SUPPLIES	RES	RB	P1	P1	P1	P1	
103	ART CLASSROOM	RES	RB	P1	P1	P1	P1	
103	PANTRY	RES	RB	P1	P1	P1	P1	
104	CLASSROOM	RES	RB	P1	P1	P1	P1	
105	TOILET	EXG	EXG	EXG	EXG	EXG	EXG	
106	VESTIBULE	EXG	EXG	EXG	EXG	EXG	EXG	
107	ART STORAGE	EXG	EXG	P1	P1	P1	P1	

		MATERIALS LEGE	
MATERIAL	CODE No.	MANUFACTURER / SERIES	COLOR / FINISH
CERAMIC TILE	СТ	EMSER RAKU 3" X 12"	TBD
PLASTIC LAMINATE	PL	PIONITE	HP HARDROCK MAPLE - CONFIRM
RESILIENT BASE	RB	TARKETT, TIGHTLOK	TBD
SOLID SURFACE	SS	CORIAN	ASH CONCRETE - TO BE CONFIRMED
TACK SURFACE	TS	FORBO	MUSHROOM MEDL
RESINOUS FLOORING	RES	DUR-A-FLEX HYBRI-FLEX AC	TBD





### **LEGEND**

SPRINKLER PIPING ABOVE FINISHED FLOOR CONCEALED PENDANT WET SPRINKLER SEMI RECESSED WET SPRINKLER SEMI RECESSED DRY SPRINKLER UPRIGHT SPRINKLER SIDEWALL WET SPRINKLER

SIDEWALL DRY SPRINKLER

CONNECT SPRINKLER TO EXISTING

BRANCH PIPING (TYP OF 6)

- HOOD WITH

- HOOD WITH ANSUL SYSTEM

ANSUL SYSTEM

CONNECT TO EXISTING

BRANCH PIPING (TYP OF 11)

- CONNECT TO EXISTING

TO REMAIN

 $oldsymbol{+}$  EXISTING SPRINKLER  $^{\sim}$ 

CAP ABOVE FINISHED FLOOR BELOW FINISHED FLOOR

CONNECT TO EXISTING BRANCH PIPING (TYP OF 4)

1.) CONTRACTOR SHALL PROVIDE SPRINKLER LAYOUT TO PROVIDE FIRE PROTECTION FOR FLOOR PLAN LAYOUT. COORDINATE SPRINKLER HEAD TYPES REQUIRED WITH NEW CEILING CONSTRUCTION. COORDINATE LOCATON OF SPRINKLER HEADS WITH ALL OTHER TRADES. PROVIDE SPRINKLER HEADS WITHIN ALL COMBUSTABLE CEILING CAVITIES. SPRINKLER SYSTEM SHALL COMPLY WITH NFPA-13

2.) FLAT BLACK CONCEALED PLATE SPRINKLERS SHALL BE UTILIZED IN PROPOSED WOOD CEILINGS

3.) REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS & DETAILS OF SKYLIGHTS THROUGHT THE BUILDING

#### FIRE PROTECTION NOTES

- 1. SPRINKLERS & PIPING SHALL BE PROVIDED WITHIN THE BUILDING IN ACCORDANCE WITH
- 2. PROVIDE SPRINKLER PROTECTION BELOW DUCTS OR OTHER OBSTRUCTIONS 48" WIDE OR WIDER PER NFPA 13, OR AT ANY OTHER LOCATION WHERE SPRINKLER DISCHARGE IS
- 3. THE FIRE SPRINKLER CONTRACTOR SHALL THOROUGHLY REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS THAT IMPACT THE FIRE SPRINKLER SYSTEMS PRIOR TO BID. ANY QUESTIONS THAT AFFECT THE DESIGN AND INSTALLATION OF THE FIRE
- SPRINKLER SYSTEM SHALL BE RESOLVED BEFORE CONTRACT IS AWARDED. 4. SPRINKLER CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS AS REQUIRED BY THE SPECIFICATIONS.
- 5. UNLESS SPECIFICALLY NOTED ON DRAWINGS PIPING SHALL ONLY BE ATTACHED TO TOP OF STEEL BAR JOISTS AT PANEL POINTS, TOP OR BOTTOM FLANGES OF STEEL BEAMS AND SIDE OF WODEN BEAMS. PIPING SHALL NOT BE ATTACHED TO STEEL DECK UNDER ANY CIRCUMSTANCES

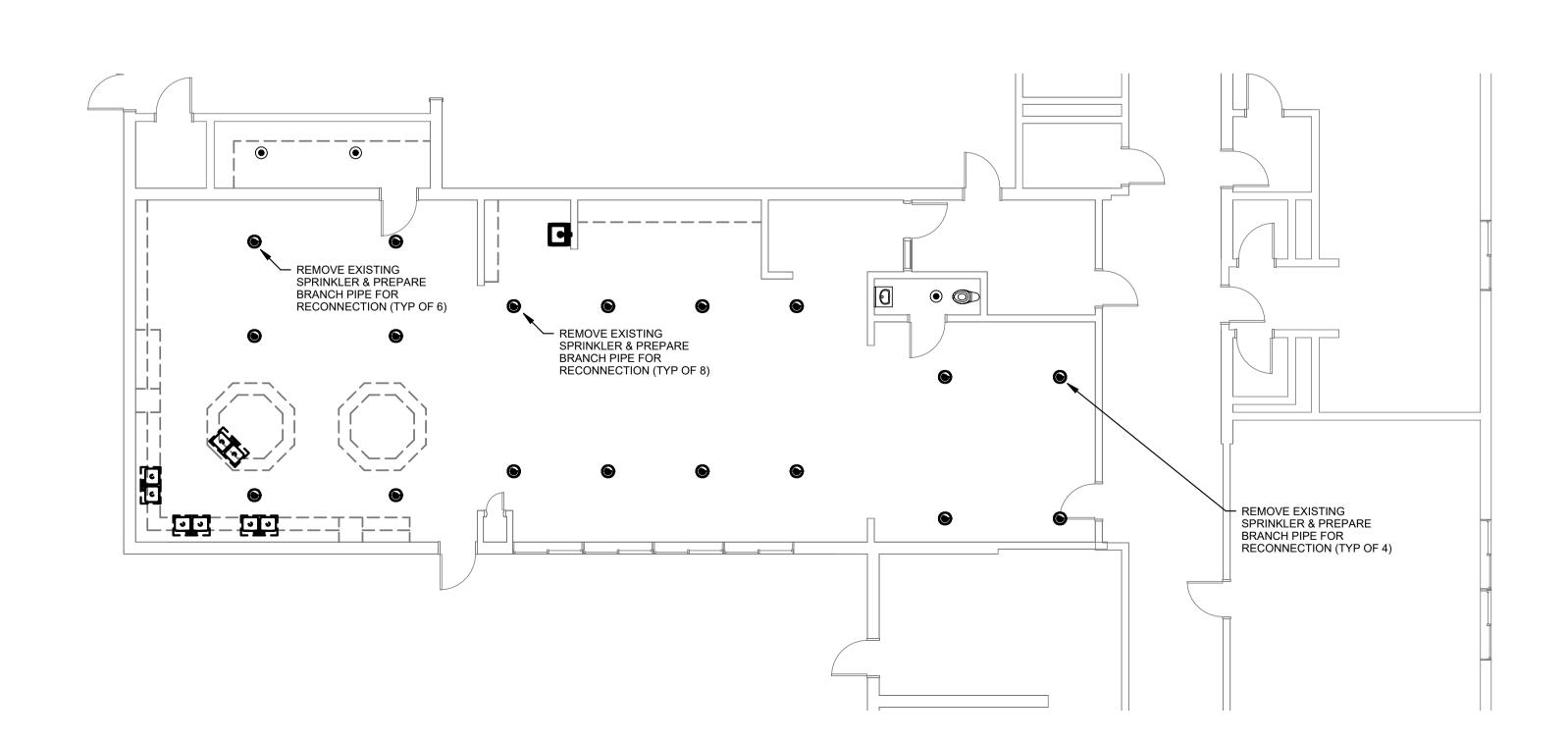
### Harriman

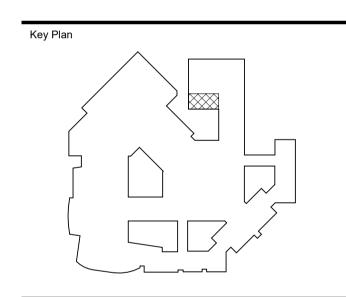
YORK HIGH SCHOOL FAMILY SCIENCES **CLASSROOM RENOVATION** 

YORK, MAINE

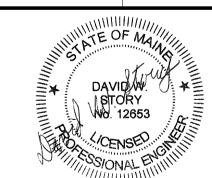
Harriman Project No. 22328

## C3 FIRST FLOOR FIRE PROTECTION SCALE: 1/8" = 1'-0"





(scale measures 1" when plotted at full size)



### **CONSTRUCTION DOCUMENTS**

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MAM

FIRE PROTECTION PLANS

F10-1

### **EXISTING PIPE LEGEND**

	XGW	EXISTING GREASE WASTE PIPING BELOW FINISHED FLOOR
	XGWV	EXISTING GREASE WASTE VENT PIPING BELOW FINISHED FLOOR
	XS	EXISTING SANITARY PIPING BELOW FINISHED FLOOR
	XSD	EXISTING STORM DRAIN PIPING BELOW FINISHED FLOOR
	XSG	EXISTING SOIL GAS PIPING BELOW FINISHED FLOOR
	XV	EXISTING VENT PIPING BELOW FINISHED FLOOR
	XCA	EXISTING COMPRESSED AIR PIPING ABOVE FINISHED FLOOR
	XCD	EXISTING CONDENSATE PIPING ABOVE FINISHED FLOOR
· · · · · · · · · · · · · · · · · · ·	XCD	EXISTING HEAT TRACED CONDENSATE PIPING ABOVE FINISHED FLOOR
	XCW	EXISTING COLD WATER PIPING ABOVE FINISHED FLOOR
	XG	EXISTING GAS PIPING ABOVE FINISHED FLOOR
	XGV	EXISTING GAS VENT PIPING ABOVE FINISHED FLOOR
	XGW	EXISTING GREASE WASTE PIPING ABOVE FINISHED FLOOR
	X85°TW	EXISTING 85°F TEMPID WATER PIPING ABOVE FINISHED FLOOR
	X120°HW	EXISTING 120°F HOT WATER PIPING ABOVE FINISHED FLOOR
	X140°HW	EXISTING 140°F HOT WATER PIPING ABOVE FINISHED FLOOR
	X120°HWR	EXISTING 120°F WATER RETURN PIPING ABOVE FINISHED FLOOR
	X140°HWR	EXISTING 140°F WATER RETURN PIPING ABOVE FINISHED FLOOR
	XOD	EXISTING OVERFLOW STORM DRAIN PIPING ABOVE FINISHED FLOOR
	XS	EXISTING SANITARY PIPING ABOVE FINISHED FLOOR
	XSD	EXISTING STORM DRAIN PIPING ABOVE FINISHED FLOOR
	XSG	EXISTING SOIL GAS PIPING ABOVE FINISHED FLOOR
	XTP	EXISTING TRAP PRIMER PIPING

### PIPE LEGEND

EXISTING VENT PIPING ABOVE FINISHED FLOOR

---- XV

	GW	PROPOSED GREASE WASTE PIPING BELOW FINISHED FLOOR
=====	GWV	PROPOSED GREASE WASTE VENT PIPING BELOW FINISHED FLOOR
	S	PROPOSED SANITARY PIPING BELOW FINISHED FLOOR
	SD	PROPOSED STORM DRAIN PIPING BELOW FINISHED FLOOR
	SG	PROPOSED SOIL GAS PIPING BELOW FINISHED FLOOR
=====	V	PROPOSED VENT PIPING BELOW FINISHED FLOOR
	CA	PROPOSED COMPRESSED AIR PIPING ABOVE FINISHED FLOOR
	CD	PROPOSED CONDENSATE PIPING ABOVE FINISHED FLOOR
······	CD	PROPOSED HEAT TRACED CONDENSATE PIPING ABOVE FINISHED FLOOR
	CW	PROPOSED COLD WATER PIPING ABOVE FINISHED FLOOR
	G	PROPOSED GAS PIPING ABOVE FINISHED FLOOR
	GV	PROPOSED GAS VENT PIPING ABOVE FINISHED FLOOR
	GW	PROPOSED GREASE WASTE PIPING ABOVE FINISHED FLOOR
	85°TW	PROPOSED 85°F TEMPID WATER PIPING ABOVE FINISHED FLOOR
	120°HW	PROPOSED 120°F HOT WATER PIPING ABOVE FINISHED FLOOR
	140°HW	PROPOSED 140°F HOT WATER PIPING ABOVE FINISHED FLOOR
	120°HWR	PROPOSED 120°F WATER RETURN PIPING ABOVE FINISHED FLOOR
	140°HWR	PROPOSED 140°F WATER RETURN PIPING ABOVE FINISHED FLOOR
	OD	PROPOSED OVERFLOW STORM DRAIN PIPING ABOVE FINISHED FLOOR
	S	PROPOSED SANITARY PIPING ABOVE FINISHED FLOOR
	SD	PROPOSED STORM DRAIN PIPING ABOVE FINISHED FLOOR
	SG	PROPOSED SOIL GAS PIPING ABOVE FINISHED FLOOR
	TP	PROPOSED TRAP PRIMER PIPING
	V	PROPOSED VENT PIPING ABOVE FINISHED FLOOR
	T	CAP
	1	CLEANOUT
	<u>C</u>	PIPE DROP
	0-	PIPE RISE

PIPE TEE

### PIPE ACCESSORY LEGEND

	BACKFLOW PREVENTER
	CIRCULATING PUMP
	CHECK VALVE
_	FLOW ARROW
丛	GAS SOLENOID VALVE
$ \bigcirc $	PRESSURE GAUGE
$\triangleright$	PRESSURE RELIEF VALVE
$\bowtie$	SHUT-OFF VALVE
	SHUT-OFF VALVE WITH THREADED HOSE END
$\odot$	THERMOMETER
ιþι	UNION
TFC	THERMOSTATIC FLOW CONTROL VALVE

#### PLUMBING FIXTURE LEGEND

•	FLOOR CLEANOUT
<b>\oint{\oint}</b>	FLOOR DRAIN
Ш	FLOOR SINK
+	FREEZE PROOF WALL HYDRANT
$\perp$	HOT WATER HOSE BIBB
0	SOIL GAS FAN
<b>&gt;</b>	SUMP PUMP
	ELECTRONIC TRAP PRIMER
<b> &amp; </b>	WATER METER
<b>-</b>	WALL CLEANOUT

### ABBREVIATIONS LEGEND

<u>AP</u>	ACCESS PANEL
BP-X	BOOSTER PUMP
<u>CW</u>	CLOTHES WASHER
CO	CLEANOUT
DCP-X	DOMESTIC CIRCULATING PUMP
<u>DW</u>	DISH WASHER
EEW-X	EMERGENCY EYEWASH
EEWS-X	EMERGENCY EYEWASH & SHOWER
ET-X	EXPANSION TANK
EWC-X	ELECTRIC WATER COOLER
FCO-X	FLOOR CLEANOUT
FD-X	FLOOR DRAIN
<u>FH</u>	FUME HOOD
FS-X	FLOOR SINK
HB-X	HOSE BIBB
HR-X	HOSE REEL
<u>L-X</u>	LAVATORY
LSK-X	LAB SINK
MB-X	MOP BASIN
RD-X	ROOF DRAIN
<u>SA "X"</u>	SHOCK ARRESTOR (P.D.I RATING)
SH-X	SHOWER
SI-X	SOLIDS INTERCEPTOR
SK-X	SINK
SOI-X	SAND & OIL INTERCEPTOR
SP-X	SUMP PUMP
<u>TP-X</u>	TRAP PRIMER
<u>UR-X</u>	URINAL
WC-X	WATER CLOSET
WCO	WALL CLEANOUT
WF-X	WASH FOUNTAIN
<u>WH-X</u>	WALL HYDRANT
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
CW	COLD WATER
DN	DOWN
GWVTR	GREASE WASTE VENT THROUGH ROOF
HW	HOT WATER
HWR	HOT WATER RETURN
INV. EL	INVERT ELEVATION
N.C	NORMALLY CLOSED
N.O	NORMALLY OPEN
S	SANITARY
SGTR	SOIL GAS THRU ROOF
TYP.	TYPICAL
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
•	CONNECT NEW TO EXISTING
	TO EXISTING

#### **GENERAL NOTES**

- 1 REFER TO INSTALLATION SCHEDULES FOR THE SIZE OF PIPING CONNECTIONS AND MOUNTING HEIGHTS OF EACH FIXTURE.
- 3 PLUMBING CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES AT ALL POINTS OF CONNECTION INDICATED ON DRAWINGS BEFORE START OF PROJECT.
- 4 PROVIDE ISOLATION VALVES ON BRANCH PIPING TO FIXTURE GROUPS & REMOTE FIXTURES AND WHERE INDICATED ON PLANS, VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- 5 PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH
- 6 COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED. PIPING INVERTS AND SLOPE SHALL BE CLOSELY COORDINATED TO AVOID CONFLICTS WITH ALL OTHER TRADES BELOW SLAB WORK.
- 7 CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.

2 SANITARY WASTE PIPING 4" & LARGER SHALL BE INSTALLED WITH A PITCH OF 1/4" PER 1'-0".

AS POSSIBLE AND TIGHT TO WALLS.

- 8 COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS.
- 9 ALL PLUMBING FIXTURE SHUT-OFF AND/OR BALANCING VALVES INSTALLED IN PIPE CHASES SHALL BE ACCESSIBLE FROM JUST ABOVE THE CEILING LINE OR ACCESS DOORS PROVIDED LOW IN CHASE WALL.ALL PLUMBING FIXTURE SHUT-OFF AND/OR BALANCING VALVES INSTALLED IN PIPE CHASES SHALL BE ACCESSIBLE FROM JUST ABOVE THE CEILING LINE OR ACCESS DOORS PROVIDED LOW IN CHASE WALL.
- 10 ALL UNDERSLAB PIPING SHALL BE INSTALLED TO PROVIDE NO LESS THAN 2" OF COVER BETWEEN THE PIPING AND THE FLOOR SI AR
- 11 OSHA RULES, REGULATIONS AND REQUIREMENTS, AND ANY STATE AND LOCAL REQUIREMENTS FOR SAFETY SHALL BE FOLLOWED BY THE CONTRACTOR
- 12 PROVIDE FIXTURE STOPS ON ANY WATER SUPPLY IMMEDIATELY ADJACENT TO PLUMBING FIXTURES.
- 13 THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY".
- 14 ENTIRE PLUMBING INSTALLATION SHALL BE IN COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL CODES AND STANDARDS.
- 15 INDIRECT WASTES SHALL HAVE AN AIR GAP OF AT LEAST TWICE THE DIAMETER OF THE PIPE BUT NOT LESS THAN 1"
- 16 THE CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND ARRANGE FOR INSPECTIONS IN ACCORDANCE WITH STATE & LOCAL ATHORITIES HAVING JURISDICTION
- 17 VOIDS BETWEEN PIPE SLEEVES AND PIPES SHALL BE FILLED WITH FIRE STOPPING WITH AN HOURLY RATING EQUAL TO THAT OF
- 18 PLUMBING CONTRACTOR SHALL CONFIRM EXISTING CONDITIONS PRIOR TO THE INSTALLATION OF SYSTEMS WHICH ARE INTENDED TO TIE INTO OR REUSE ANY PART OF THE EXISTING PIPING OR EQUIPMENT
- 19 PROVIDE VACUUM BREAKERS ON HOSE CONNECTIONS AND WHERE INDICATED ON PLANS AND DETAILS
- 20 DOMESTIC WATER PIPING ROUTED UNDER SLAB SHALL BE IN A CONTINUOUS NON METALLIC CONDUIT, SEALED AT THE TOP WITH NON SHRINK GROUT
- 21 ALL PROPOSED SUPPLY PIPING SHALL BE INSULATED, REFER TO SPECIFICATIONS FOR INSULATION THICKNESS & ACCEPTED PRODUCTS
- 22 STORM DRAINAGE PIPING ABOVE SLAB SHALL BE INSULATE, REFER TO SPECIFICATIONS FOR INSULALTION THICKNESS. EXPOSED STORM DRAINAGE SHALL BE PVC JACKETED
- 23 ISOLATION VALVES ON GAS PIPING SHALL BE AGA RATED BALL VALVES, PLUG VALVES WILL NOT BE ACCEPTED
- 24 DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- 25 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.
- 26 UNLESS SPECIFICALLY NOTED ON DRAWINGS PIPING SHALL ONLY BE ATTACHED TO TOP OF STEEL BAR JOISTS AT PANEL POINTS, TOP OR BOTTOM FLANGES OF STEEL BEAMS AND SIDE OF WODEN BEAMS. PIPING SHALL NOT BE ATTACHED TO STEEL DECK UNDER ANY CIRCUMSTANCES

### PLUMBING DEMOLITION NOTES

- 1 DURING DEMOLITION PROPERLY CAP AND PROTECT ALL PIPING THAT WILL REMAIN IN OPERATION
- 2 WHERE EXISTING INSULATION TO REMAIN IS DAMAGED BY THE REQUIREMENTS OF WORK, REPLACE ANY DAMAGED
- 3 PLUMBING 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
- 4 LOCATION OF EXISTING PIPING AS SHOWN ON DRAWINGS IS APPROXIMATE
- 5 COMPLETELY REMOVE ALL EQUIPMENT AS INDICATED, FIXTURES & OR MISCELLANEOUS ARTICLES IN THEIR ENTIRETY INCLUDING AUXILLARY EQUIPMENT, PIPING, WIRING & CONDUIT
- 6 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
- 7 COORDINATE ELECTRICAL POWER DISCONNECTION PRIOR TO DEMOLITION WITH ELECTRICAL CONTRACTOR
- 8 PROTECT ALL FIXTURES, PLUMBING AND WORK OF OTHER TRADES WHICH IS TO REMAIN, FROM DAMAGE DURING DEMOLITION
- 9 ALL PIPING TO REMAIN SHALL HAVE ENDS TERMINATED IN A NEAT MANNER READY FOR CONNECTION OF NEW WORK. ALL EXPOSED ENDS OF PIPING SHALL BE CAPPED
- 10 NO DEAD LEGS LONGER THAN 12" SHALL BE LEFT ON ANY PIPING UPON COMPLETION OF JOB
- 11 EXISTING PIPING NOT TO BE REUSED, NOT SUPPLYING ANY FIXTURE AND NOT SPECIFICALLY NOTED OR SHOWN ON DRAWINGS TO BE ABANDONED, SHALL BE COMPLETELY REMOVED
- 12 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
- 13 DEMOLISH & COMPLETLY REMOVE EXISTING CONDITIONS DESIGNATED BY A HEAVY DASHED LINE UNLESS NOTED OTHERWISE. REFER TO LEGEND AND DEMOLITION PLANS FOR SCOPE OF WORK

### Harrimar

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

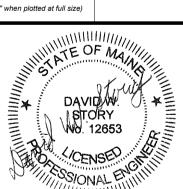
YORK, MAINE

Harriman Project No. 22328

Graphic Scale

0" 1"

(scale measures 1" when plotted at full size)



### **CONSTRUCTION DOCUMENTS**

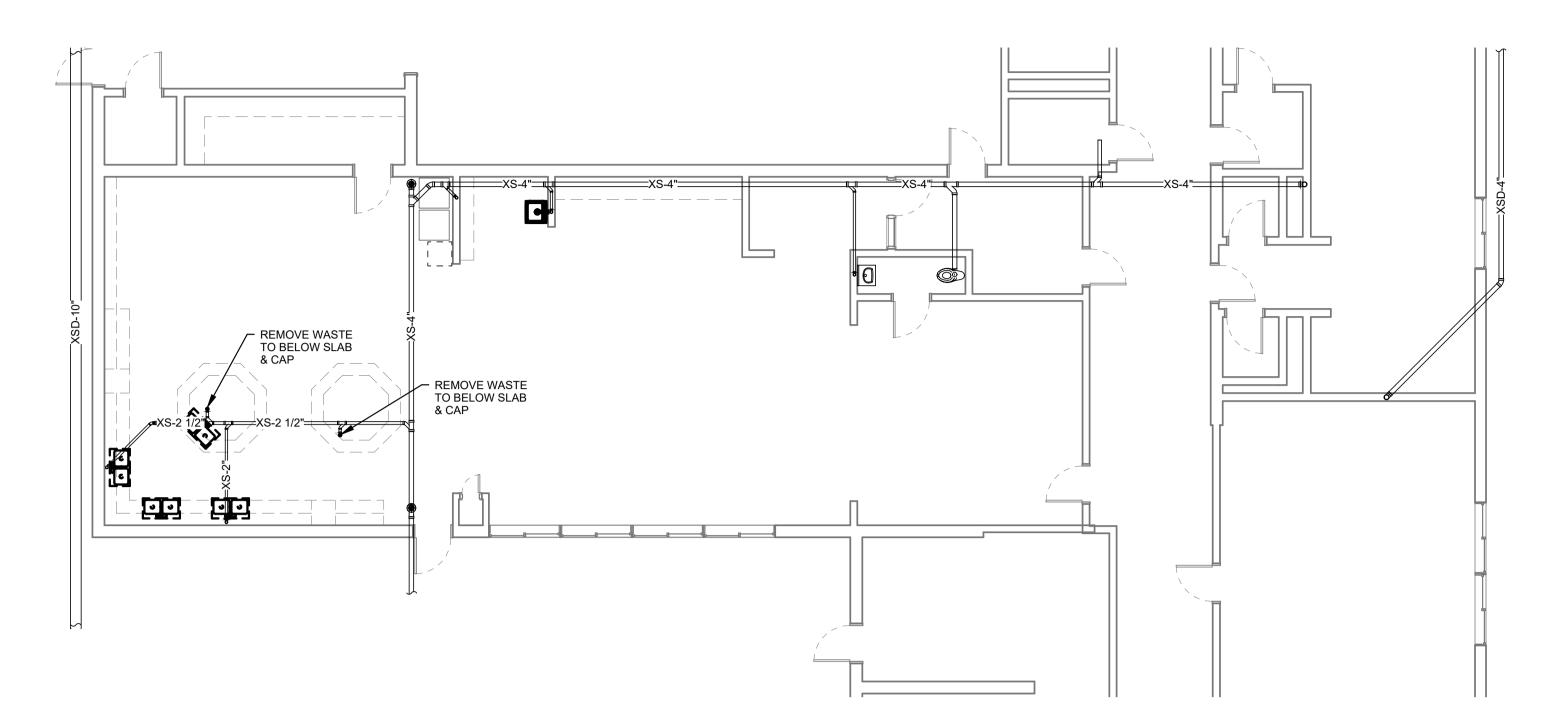
JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MAM

LEGEND & GENERAL NOTES

P00-1

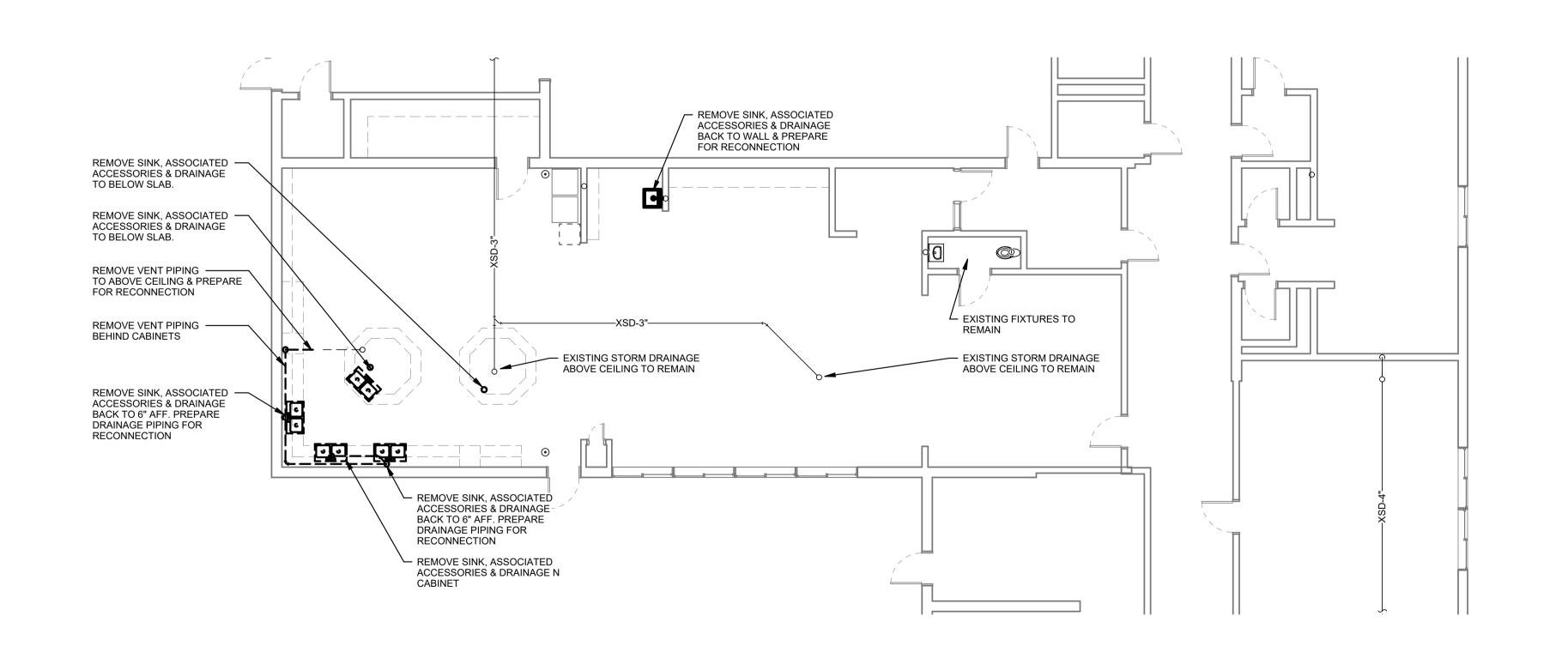


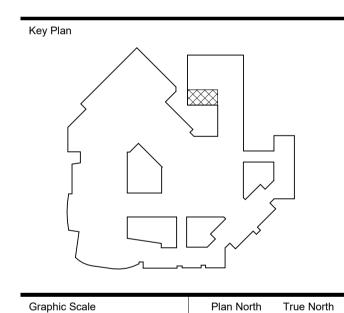
YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

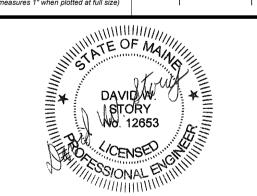
Harriman Project No. 22328

## C1 BELOW SLAB DRAINAGE DEMOLITION SCALE: 1/8" = 1'-0"





O" 1"
(scale measures 1" when plotted at full size)



### CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MAM

DRAINAGE DEMOLITION

P05-1

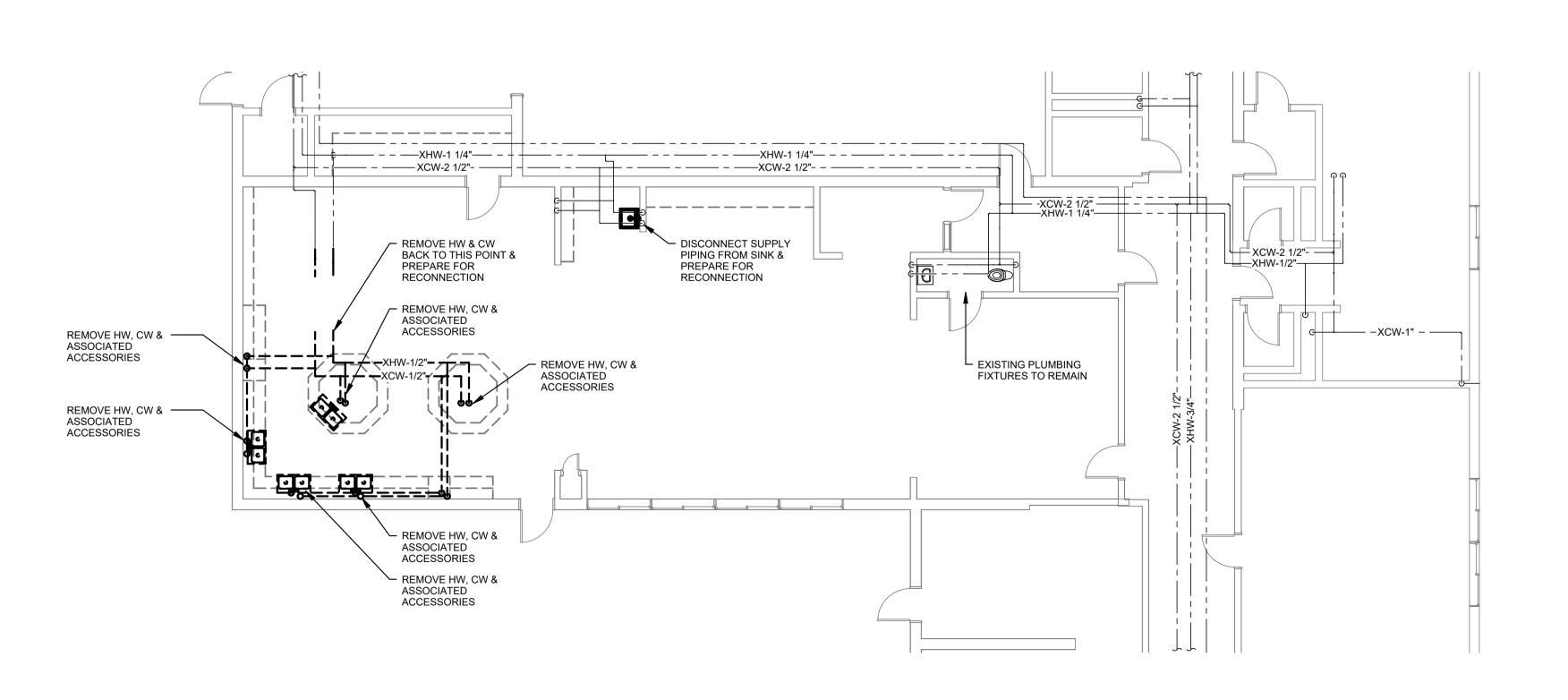
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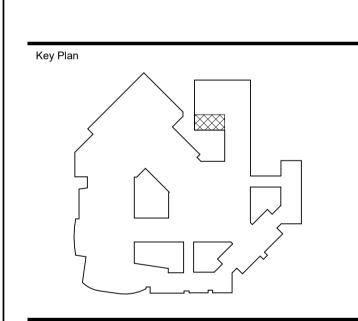
YORK, MAINE

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Harriman Project No.

22328



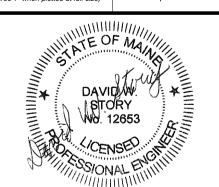


Graphic Scale

0" 1"

(scale measures 1" when plotted at full size)

Plan North True North



### CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MAM

SUPPLY DEMOLITION

P06-1

### CONNECT 2" W TO EXISTING WASTE IN WALL 2" W IN WALL & ¬ 1-1/2" V DN ART STORAGE VESTIBULE - 2" W IN WALL & 2" W IN WALL & — 1-1/2" V DN CLASSROOM 104 2" W IN WALL — 2" W IN WALL & — 1-1/2" V DN CONNECT 2" V TO EXISTING. CONTRACTOR SHALL VERIFY EXACT LOCATION IN FIELD CONNECT 2" W -TO EXISTING CONNECT 2" V TO EXISTING CLASSROOM 104 CONNECT 2" W -TO EXISTING 2" W IN WALL & 1-1/2" V DN - 2" W IN WALL 2" W IN WALL & 1-1/2" V DN 2" W IN WALL & 1-1/2" V DN

## Harriman

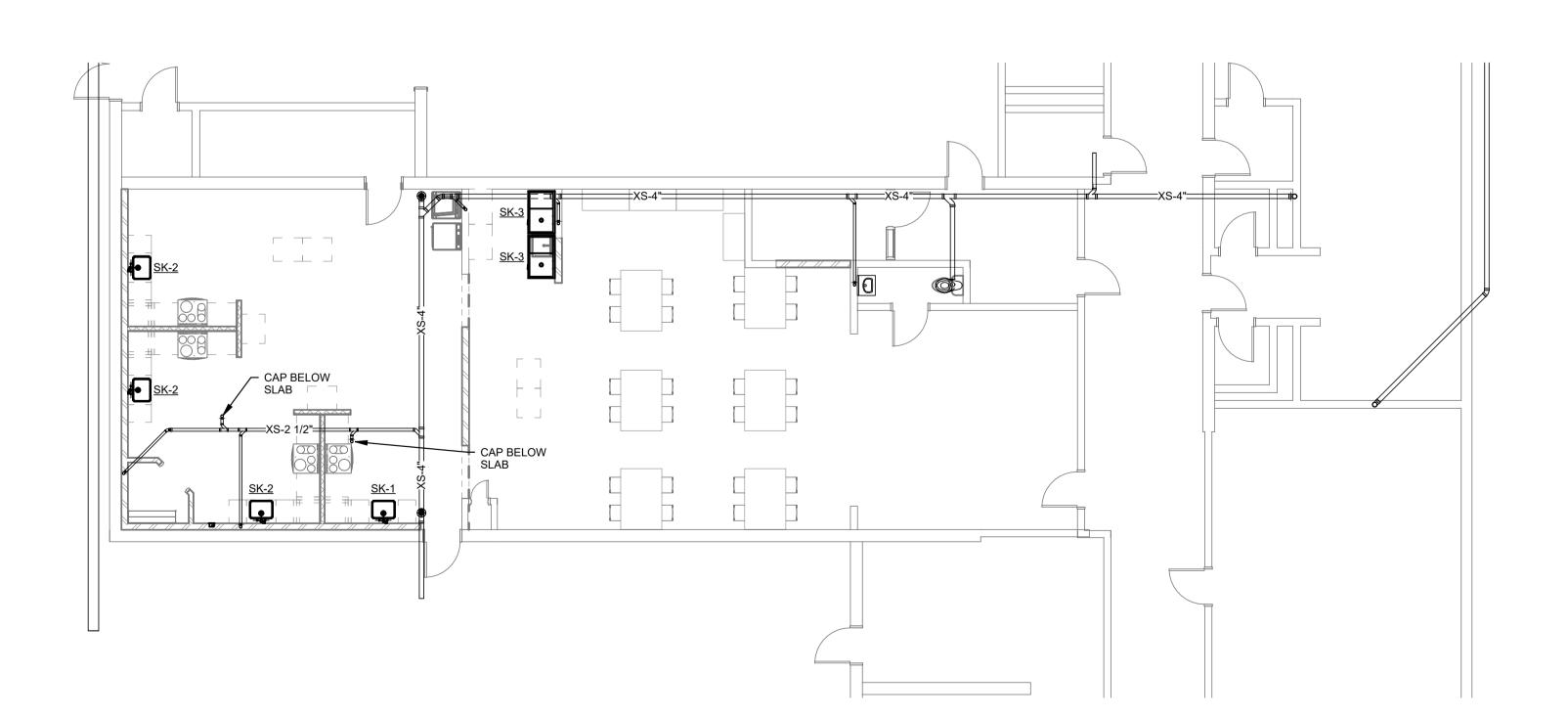
YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

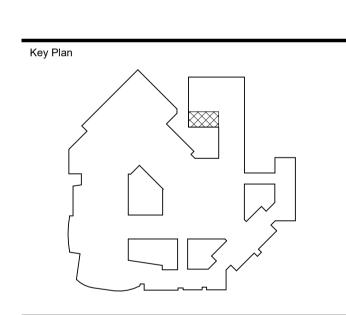
YORK, MAINE

Harriman Project No. 22328

C1 FIRST FLOOR DRAINAGE

SCALE: 1/8" = 1'-0"



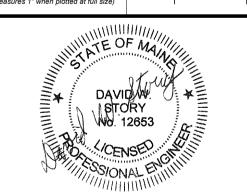


aphic Scale

O" 1"

True

ale measures 1" when plotted at full size)



CONSTRUCTION DOCUMENTS

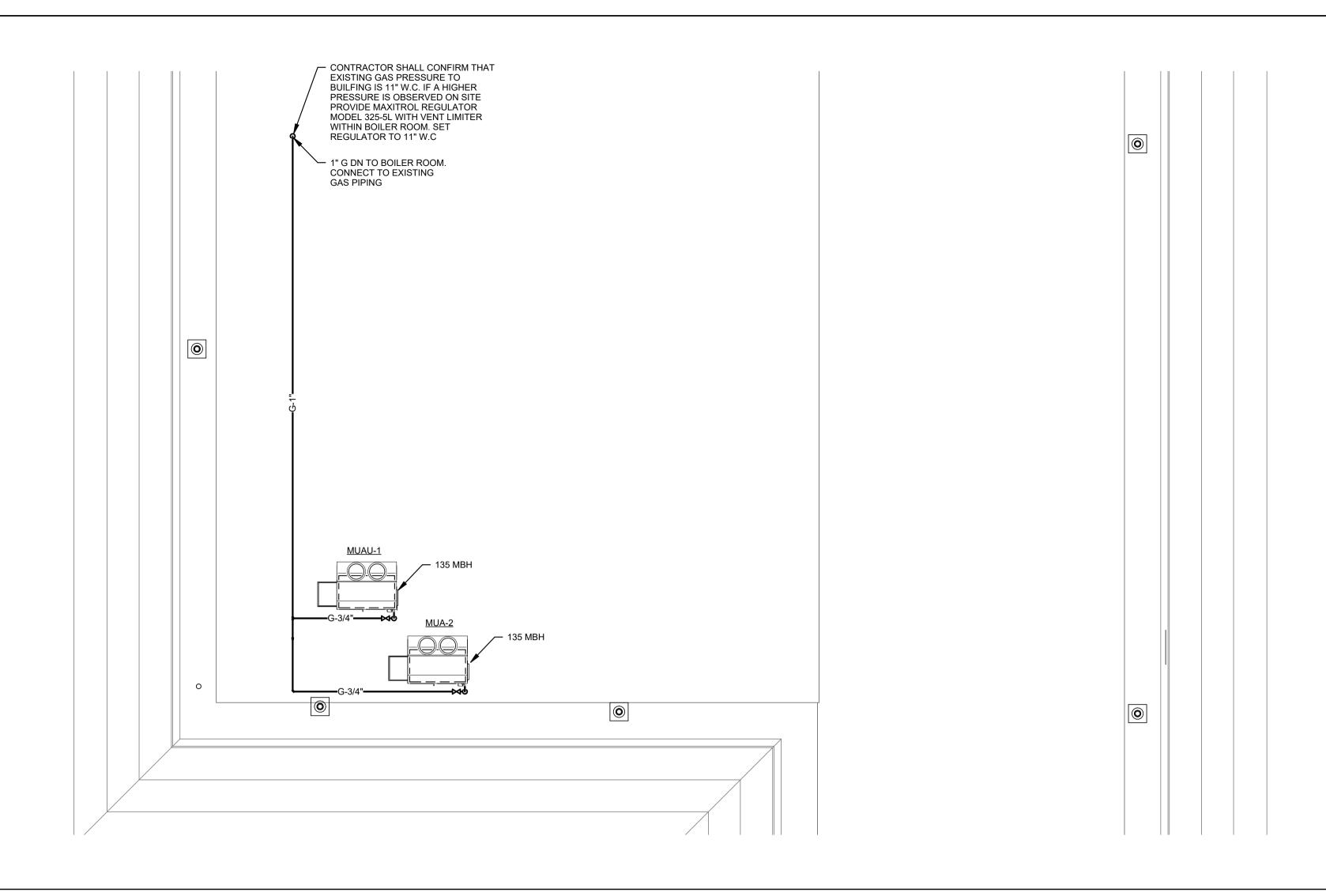
JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MAM

DRAINAGE PLANS

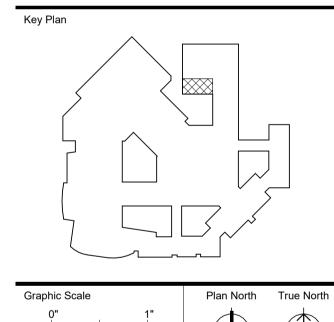
P10-1



YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No. 22328

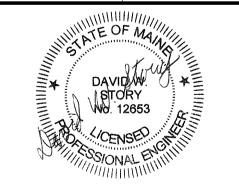


Graphic Scale

O"

1"

(scale measures 1" when plotted at full size)



### CONSTRUCTION DOCUMENTS

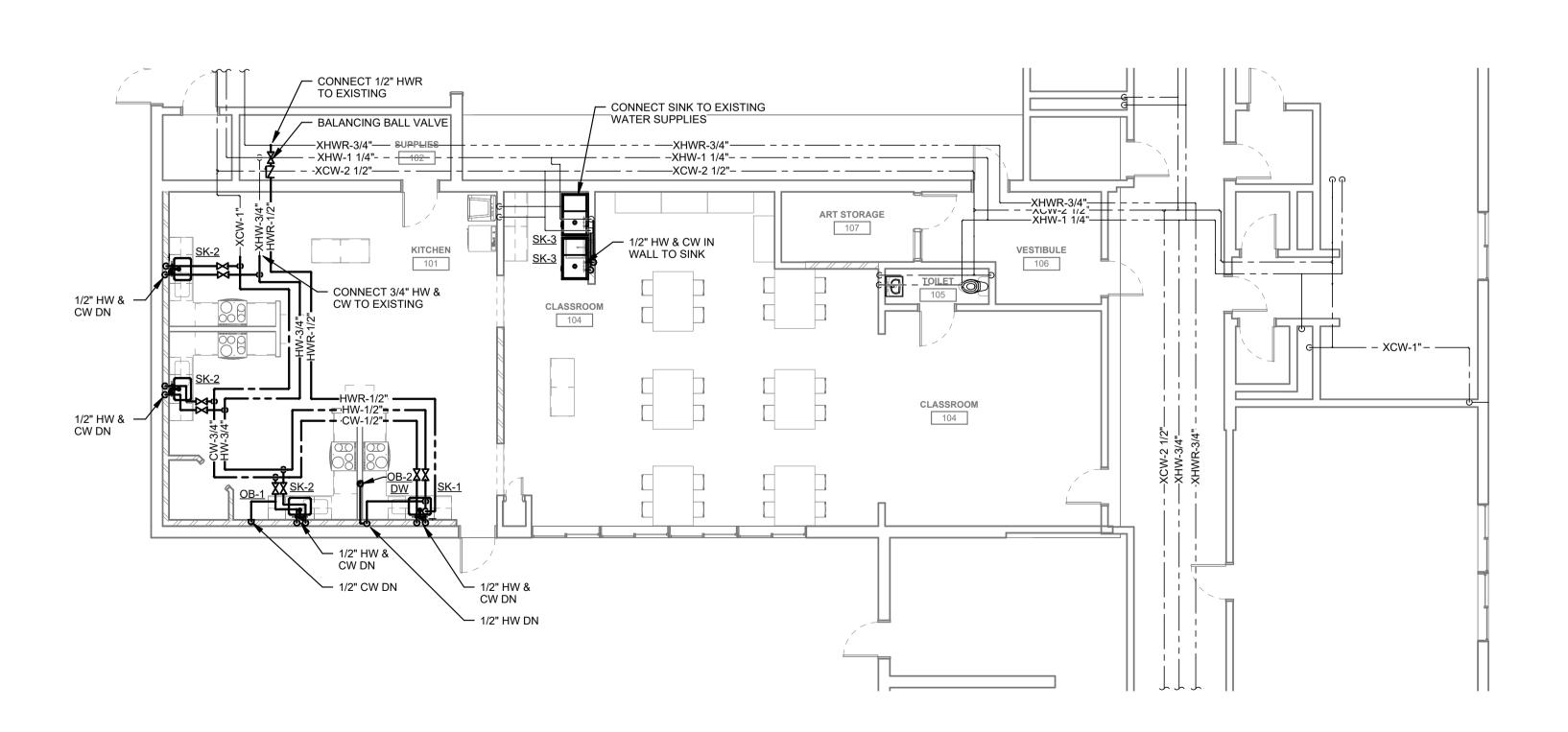
JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MAM

SUPPLY PLANS

P20-1



A1) FIRST FLOOR SUPPLY
SCALE: 1/8" = 1'-0"

ROOF PLAN

SCALE: 1/8" = 1'-0"

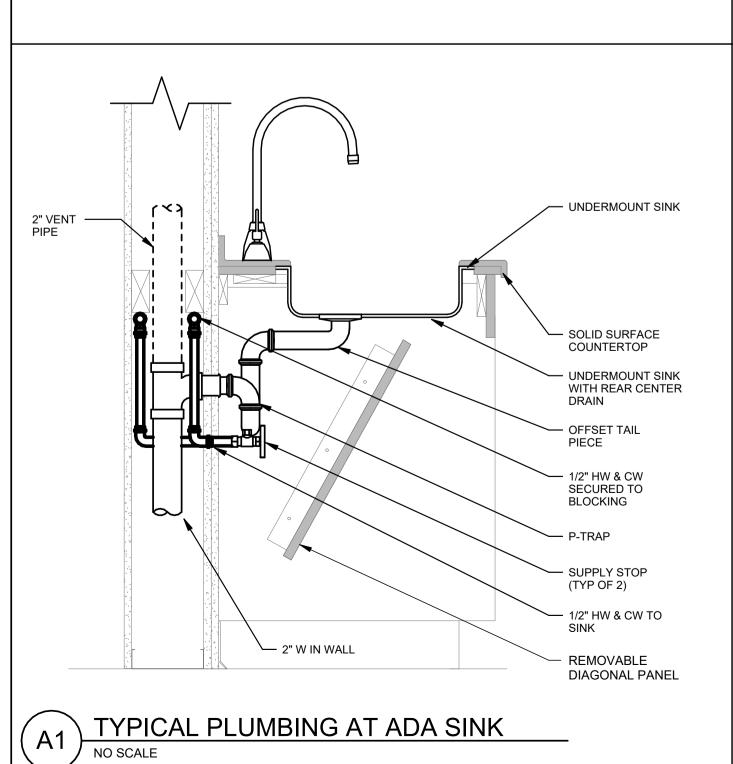
PLUMBING FIXTURE INSTALLATION SCHEDULE								
	FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR							
BRANCH CONNECTION				ONNECTION		BASIS OF DESIGN FIXTURE SPECIFICATIONS	BASIS OF DESIGN FIXTURE SPECIFICATIONS	MOUNTING HEIGHT
TAG	DESCRIPTION	W	v	cw	HW	REFER TO THE SPECIFICATIONS FOR APPROVED EQUALS AND DETAILED DESCRIPTIONS	REFER TO THE SPECIFICATIONS FOR APPROVED EQUALS AND DETAILED DESCRIPTIONS	TO RIM UNLESS NOTED OTHERWISE
SK-1	UNDERCOUNTER MOUNT SINK	2"	1 1/2"	1/2"	1/2"	JUST UNDERMOUNT SINK MODEL USNADA1824A55-J,PROVIDE CENTER REAR DRAIN	CHICAGO FAUCET MANUAL FAUCET MODEL 201-G8AE35-317XKAB	33 1/2" TO TOP OF COUNTER
SK-2	UNDERCOUNTER MOUNT SINK	2"	1 1/2"	1/2"	1/2"	JUST UNDERMOUNT SINK MODEL US1824A-J,PROVIDE CENTER REAR DRAIN	CHICAGO FAUCET MANUAL FAUCET MODEL 201-G8AE35-317XKAB	33 1/2" TO TOP OF COUNTER
SK-3	SINGLE BOWL ART SINK WITH DRAINBORD	2"	1 1/2"	1/2"	1/2"	AERO MODEL MF1-2424-18L	CHICAGO FAUCET 631-L12WXFABCP, TWO HANDLE, LEVER HANDLES, 12" SWING SPOUT	33 1/2" TO TOP OF COUNTER
SI-1	PLASTER TRAP	1 1/2"	1 1/2"	-	-	PRACTICON GLECO PLASTER SINK TRAP MODEL 7078713, PROVIDE MODEL 70-78712 64 O.Z REPLACEMENT BOTTLES	-	-
OB-1	MODULAR DISHWASHER OUTLET BOX	-	-	1/2"	-	OATEY DISHWASHER OUTLET BOX WITH FACE PLATE MODEL I2K-38583-38621	-	42"
OB-2	MODULAR DISHWASHER OUTLET BOX	-	-	-	1/2"	OATEY DISHWASHER OUTLET BOX WITH FACE PLATE MODEL I2K-38583-38621	-	24"

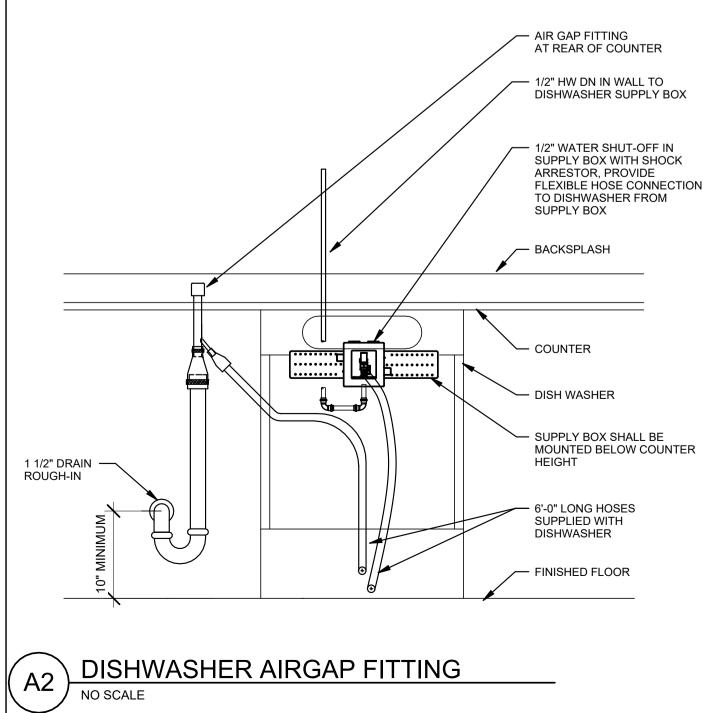
PLUMBING PIPING MATERIALS SCHEDULE			
SYSTEM	MATERIAL		
SANITARY WASTE & VENT (UNDERGROUND)	SCHEDULE 40 POLYVINYL CHLORIDE (PVC)		
SANITARY WASTE & VENT (ABOVE GROUND)	SCHEDULE 40 POLYVINYL CHLORIDE (PVC)		
DOMESTIC WATER SUPPLY (ABOVE GROUND)	TYPE "L" COPPER WITH PRESS FITTINGS		
PROPANE GAS PIPING	SCHEDULE 40 BLACK STEEL WITH MEGA PRESS, THREADED OR WELDED FITTINGS		

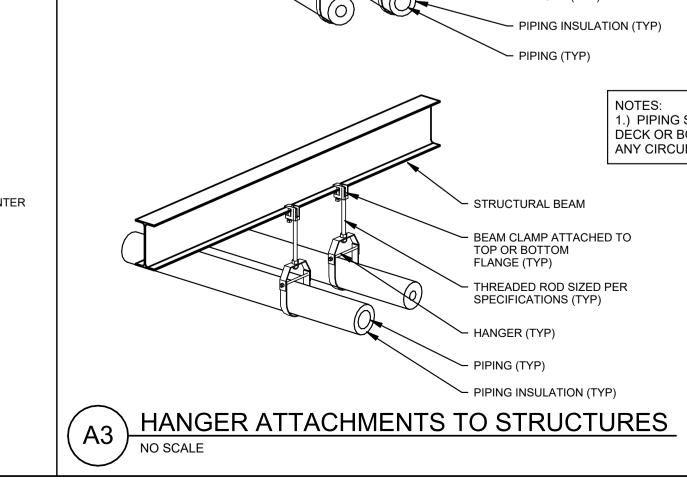
YORK HIGH SCHOOL FAMILY SCIENCES **CLASSROOM RENOVATION** 

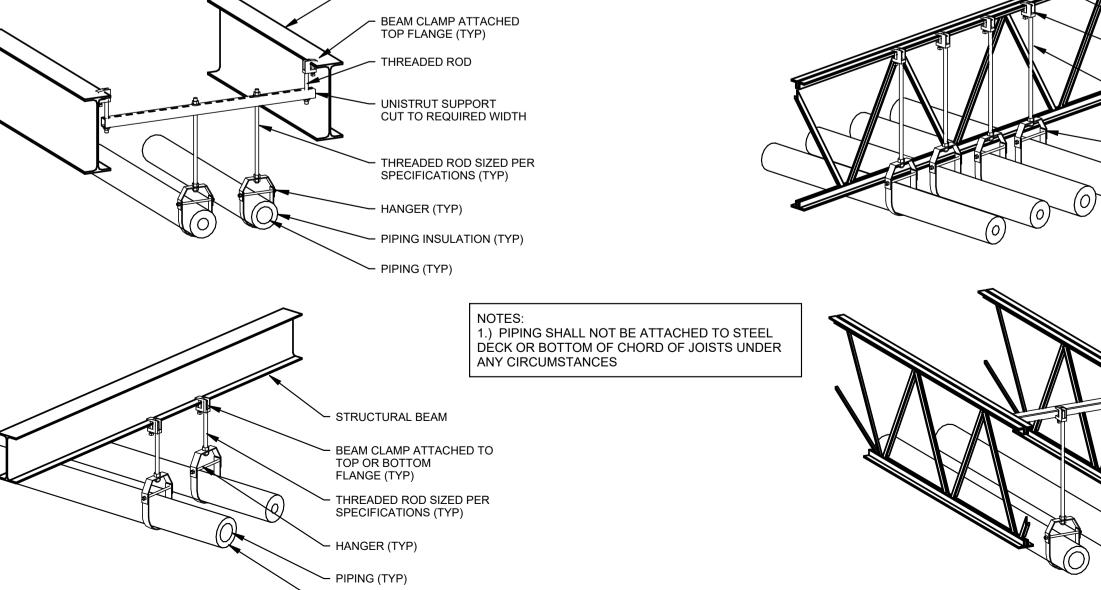
YORK, MAINE

Harriman Project No. 22328

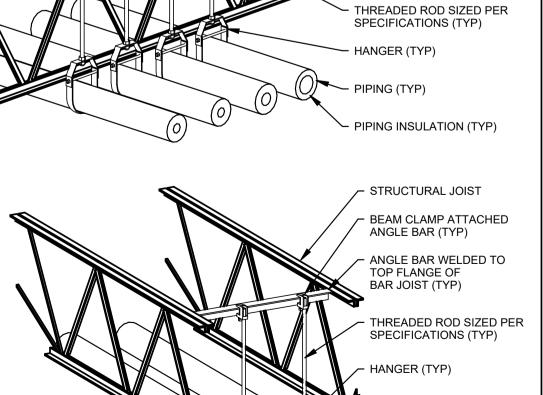








STRUCTURAL BEAM



- STRUCTURAL JOIST

BEAM CLAMP ATTACHED TO TOP FLANGE OF JOIST (TYP)

Revision Date Revision Description Drawn by: MAM

Graphic Scale

(scale measures 1" when plotted at full size)

**DETAILS & SCHEDULES** 

DAVIDW. STORY Wo. 12653

CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

P50-1

<u>ABBREV</u>	<b>DESCRIPTION</b>	<u>ABBREV</u>	<b>DESCRIPTION</b>
ACV	AUTOMATIC CONTROL VALVE		
AFF	ABOVE FINISHED FLOOR	IN	INCHES
AFG	ABOVE FINISHED GRADE		
ALD	ACOUSTICAL LINED DUCT	LAT	LEAVING AIR TEMPERATURE
AMS	AIRFLOW MEASURING STATION	LPCR	LOW PRESSURE CONDENSATE RETURN (LESS THAN 15 PSI)
APD	AIR PRESSURE DROP AUTOMATIC TEMPERATURE		LOW PRESSURE STEAM(LESS THAN
ATC	CONTROL	LPS	15 PSI)
	3	LRA	LOCKED ROTOR AMPS
В	BAROMETRIC DAMPER	LSGV	LOCK & SHIELD GATE VALVE
BD	BACKDRAFT DAMPER	LWT	LEAVING WATER TEMPERATURE
BHP	BRAKE HORSEPOWER		
BPD	BYPASS DAMPER	M	MOTORIZED DAMPER
BTU	BRITISH THERMAL UNITS	MAX	MAXIMUM
		MBH	1000 BRITISH THERMAL UNITS
CBD	COUNTERBALANCED BACKDRAFT	MCA	MINIMUM CIRCUIT AMPS
	DAMPER	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	MOPD	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
CHWR	CHILLED WATER RETURN		MEDIUM PRESSURE CONDENSATE
CHWS	CHILLED WATER SUPPLY	MPCR	RETURN(16-30 PSIG)
CO	CLEANOUT		MEDIUM PRESSURE STEAM (16-30
CTE	CONNECT TO EXISTING	MPS	PSIG)
CWR	CONDENSER WATER RETURN		,
CWS	CONDENSER WATER SUPPLY	NA	NOT APPLICABLE
DOW	DOMESTIC COLD WATER	NC	NOISE CRITERIA
DCW	DOMESTIC COLD WATER	NIC	NOT IN CONTRACT
DEG.F	DEGREES FAHRENHEIT	NO	NORMALLY OPEN
DHW	DOMESTIC HOT WATER	NTS	NOT TO SCALE
DIA	DIAMETER		
DN	DOWN	OA	OUTSIDE AIR
DTR	DUAL TEMPERATURE RETURN DUAL TEMPERATURE SUPPLY	OC	ON CENTER
DTS	DUAL TEMPERATURE SUPPLY	OED	OPEN END DUCT
EAT	ENTERING AIR TEMPERATURE	OS&Y	OUTSIDE SCREW & YOKE GATE
ESP	EXTERNAL STATIC PRESSURE	0301	VALVE
EWT	ENTERING WATER TEMPERATURE		
EXG	EXISTING	PD	PRESSURE DROP
EXH	EXHAUST	PRD	PRESSURE RELIEF DAMPER
		PRV	PRESSURE REDUCING VALVE
F&T	FLOAT & THERMOSTATIC TRAP	PSI	POUNDS PER SQUARE INCH
	FIRE AND SMOKE COMBINATION	PSIG	POUNDS PER SQUARE INCH GAUGE
F/S	DAMPER	DET	DETUDN
FC	FLEXIBLE CONNECTION	RET	RETURN
FD	FIRE DAMPER	RL	REFRIGERANT LIQUID RATED LOAD AMPERES
FL	FINNED LENGTH OF RADIATION	RLA RPM	REVOLUTIONS PER MINUTE
FM	FLOW METER	RS	REFRIGERANT SUCTION
FOR	FUEL OIL RETURN	NO	REPRISERANT SOCTION
FOS	FUEL OIL SUPPLY	S	SMOKE DAMPER
FPF	FINS PER FOOT	SP	STATIC PRESSURE
FPI	FINS PER/INCH	SS	STAINLESS STEEL
FPM	FEET PER MINUTE	SUP	SUPPLY
FT	FEET	001	001121
FT-HD	FEET OF HEAD	TEMP	TEMPERATURE
FT-WG	FEET WATER GAUGE	TT	THERMOSTATIC TRAP
FTR	FIN TUBE RADIATOR	TYP	TYPICAL
•			
GAL	GALLONS	V	VOLUME DAMPER
GPM	GALLONS PER MINUTE	VFD	VARIABLE FREQUENCY DRIVE
LID	HODOEDOWED		
HP	HORSEPOWER	W/	WITH
HPCR	HIGH PRESSURE CONDENSATE RETURN (OVER 30 PSIG)	W/O	WITHOUT
	HIGH PRESSURE STEAM (OVER	WC	WATER COLUMN
HPS	30PSIG)	WG	WATER GAUGE
HRR	HEAT RECOVERY RETURN	WMS	WELDED WIRE MESH SCREEN
HRS	HEAT RECOVERY SUPPLY	WPD	WATER PRESSURE DROP
HWR	HOT WATER RETURN		
HWS	HOT WATER SUPPLY	Z	ZONE DAMPER
		PREFIX OF X	EXISTING

### PIPING LEGEND

THERMOSTATIC TRAP

A 10'-0" FL/D 1.2 GPM RADIATION I.D. ( TYPE A, 10'-0" FINNED LENGTH, BALANCED TO 1.2 GPM) WITH DAMPER

PIN	<u>G LEGEND</u>	DUCTWORK		
<u>SYMBOL</u>	DESCRIPTION	SYMBOL	DESCRIPTIO	
	EXISTING SUPPLY PIPING TO REMAIN		EXISTING DUCTWO	
	EXISTING RETURN PIPING TO REMAIN		NEW DUCTWORK	
	NEW SUPPLY PIPING	<del></del>	ACOUSTICALLY LIN	
	NEW RETURN PIPING			
<b>—</b>	ACV 2 - WAY	(AMS)	AIRFLOW MEASUR	
<b>-</b> □ <b>↓</b>	ACV 3 - WAY	BD <del>·········</del>	BACKDRAFT DAMP	
	BUTTERELYMANA	CB <del>'</del> Ø	COUNTERBALANCE	
<b>-</b>  ∅ -	BUTTERFLY VALVE		SPIRAL DUCT DIAN  DUCT SECTION - S	
[——	CAP - PIPE	$\boxtimes$		
	CHECK VALVE		DUCT SECTION - R	
<del>-</del> \sqr	COMBINATION BALANCING, FLOW MEASURING & TIGHT SHUT-OFF VALVE	(Eg	DUCT SECTION - E	
			DUCT TURNING VA	
(DPS)	DIFFERENTIAL PRESSURE SENSOR	F '₩₩ F/S'₩₩	FIRE DAMPER (1 1/ FIRE AND SMOKE I	
	FLOAT & THERMOSTATIC TRAP	FD (3 HR) <del></del>	FIRE DAMPER (3 H	
$\rightarrow$	ISOLATION VALVE	11111	FLEXIBLE DUCT	
<u> </u>	GLOBE VALVE		LOUVER	
$-\otimes$	INVERTED BUCKET TRAP	М "	MOTORIZED DAMP	
	LOCKSHIELD GATE VALVE	PRD <del>□□</del>	PRESSURE RELIEF	
—(V)	MANUAL AID VENT	<b>-</b> √- <b>▶</b>	RETURN OR EXHA	
	MANUAL AIR VENT	s <del></del>	SMOKE DAMPER	
	OS&Y GATE VALVE	SD)+	DUCT MOUNTED S	
	PETCOCK FOR GAUGE CONNECTION	SPS	STATIC PRESSURE	
—×—	PIPE ANCHOR	<b>→</b>	SUPPLY OR OUTSI	
C—	PIPE DOWN	V <b></b>	VOLUME DAMPER	
0—	PIPE UP	V—	—S (SUPPLY) R (RET	
<del>-=</del> -	PIPE GUIDE		E (EXHAUST) T (TR SUPPLY DIFFUSER	
<del></del>	PLUG VALVE		—DIFFUSER DESCRI ( SEE REG., GRILLE	
(P)	PRESSURE GAUGE	\$2 4 400	—QUANTITY	
<b>→</b>	PRESSURE REDUCING VALVE	400	—400 CFM EA	
$\Delta$	PRESSURE RELIEF VALVE		400 CHWI EA	
— <u>&gt;</u>	REDUCER - CONCENTRIC	0011		
	REDUCER - ECCENTRIC	CON	<u> </u>	
<del>-   }  </del>	STRAINER	<u>SYMBOL</u>	DESCRIPTION	
<del></del>	TAKE - OFF FROM BOTTOM OF PIPE	$\bigcirc$	HUMIDISTAT	
<b>—</b> ү—	TAKE - OFF FROM TOP OF PIPE	HS	HUMIDITY SENSOR	
		TS	TEMPERATURE SE	
$\bigcirc$	THERMOMETER	T	THERMOSTAT	
<u> </u>	THERMOMETER WELL	To	THERMOSTAT COC	
		(T,,)	THERMOSTAT HEA	

### **DUCTWORK LEGEND**

SYMBOL	DESCRIPTION
<b>}</b>	EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK
	ACOUSTICALLY LINED DUCT
AMS	AIRFLOW MEASURING STATION
BD <del>□</del>	BACKDRAFT DAMPER
СВ≔	COUNTERBALANCED DAMPER
Ø	SPIRAL DUCT DIAMETER
$\boxtimes$	DUCT SECTION - SUPPLY/OUTDOOR AIR
	DUCT SECTION - RETURN AIR
$\boxtimes$	DUCT SECTION - EXHAUST AIR
(G	DUCT TURNING VANES
F₩	FIRE DAMPER (1 1/2 HOUR RATED)
F/S <del>·===</del>	FIRE AND SMOKE DAMPER (1 1/2 HOUR RATED)
FD (3 HR) <del>←</del>	FIRE DAMPER (3 HOUR RATED)
111111	FLEXIBLE DUCT
	LOUVER
М₩	MOTORIZED DAMPER
PRD <del>□</del>	PRESSURE RELIEF DAMPER
<b>-</b>	RETURN OR EXHAUST AIR
S -	SMOKE DAMPER
SDH	DUCT MOUNTED SMOKE DETECTOR
SPS	STATIC PRESSURE SENSOR
<b>→</b>	SUPPLY OR OUTSIDE AIR
V	VOLUME DAMPER
	—S (SUPPLY) R (RETURN) E (EXHAUST) T (TRANSFER) SUPPLY DIFFUSER ( TYPE 2 )
	-DIFFUSER DESCRIPTION (SEE REG., GRILLES & DIFF SCHEDULE)

<b>CONTROLS LEGEND</b>		
<u>SYMBOL</u>	DESCRIPTION	
$\bigcirc$ H	HUMIDISTAT	
HS	HUMIDITY SENSOR	
TS	TEMPERATURE SENSOR	
T	THERMOSTAT	
(L°)	THERMOSTAT COOLING	
(T,,)	THERMOSTAT HEATING	
(T <sub>w</sub> )	THERMOSTAT - NIGHT	
Twc	THERMOSTAT - HEATING/COOLING	
<u>GENI</u>	ERIC LEGEND	
SYMBOL	DESCRIPTION	

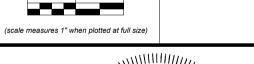
A 10'-0" FL RADIA 1.2 GPM BALAN	TION I.D. ( TYPE A, 10'-0" FINNED LENGTH, NCED TO 1.2 GPM) WITHOUT DAMPER	<u>GENI</u>	ERIC LEGEND
		SYMBOL	DESCRIPTION
		•	CONNECT NEW TO EXISTING
			COMPLETELY REMOVE EQUIPMENT, DUCTWORK, OR PIPING
			EXISTING EQUIPMENT TO REMAIN
			NEW EQUIPMENT
		A M10.1	SECTION I.D. ( SECTION A SHOWN ON DWG. M10.1)

### **GENERAL NOTES**

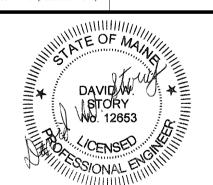
- 1 VISIT THE BUILDING SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS, AND TO TAKE MEASUREMENTS AS NECESSARY FOR COMPLETION OF THE WORK ASSOCIATED WITH THE DESIGN INTENT OF THE
- 2 COORDINATE WORK OF MECHANICAL SUBCONTRACTOR WITH WORK OF OTHER TRADES.
- 3 DUCTWORK, PIPING AND EQUIPMENT ARE INDICATED DIAGRAMMATICALLY. FIELD-VERIFY LOCATIONS. 4 PRIOR TO FABRICATING DUCTWORK, COORDINATE WITH OTHER TRADES TO ENSURE THAT THE DUCTWORK CAN BE INSTALLED WITH THE INDICATED SIZES AND LOCATIONS.FIELD-VERIFY EXISTING DUCT SIZES AND CONDITIONS.SUBMIT ANY DISCREPANCIES OR PROPOSED CHANGES.
- 5 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF CEILING DIFFUSERS AND REGISTERS. 6 DUCT ELBOWS SHALL BE LONG-RADIUS TYPE (THROAT RADIUS EQUAL TO OR GREATER THAN DUCT WIDTH IN THE PLANE OF THE TURN) WHEREVER SPACE ALLOWS. IF SPACE IS NOT ADEQUATE, PROVIDE MITERED ELBOWS WITH TURNING
- 7 PROVIDE 16 GAUGE SINGLE-THICKNESS TURNING VANES AT MITERED DUCT ELBOWS. VANE EDGES (LEADING AND
- TRAILING) SHALL BE TANGENTIAL TO AIRFLOW. 8 FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 5'-0"
- 9 PAINT DUCTWORK VISIBLE THRU CEILING OPENINGS, DUCT OPENINGS, AND REGISTERS, GRILLES, AND DIFFUSERS WITH BLACK PAINT IN ACCORDANCE WITH DIVISION 09 SECTION "PAINTING." 10 MOUNT THERMOSTATS AND TEMPERATURE AND HUMIDITY SENSORS AT 48 INCHES AFF TO TOP OF ITEM. PROVIDE
- ELECTRICAL WALL BOX ATTACHED TO FRAMING. 11 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. 12 PIPING INDICATED IN OUTSIDE WALLS SHALL BE RUN ON THE WARM SIDE OF BUILDING INSULATION AND VAPOR BARRIER. BUILDING INSULATION BEHIND SUCH PIPING SHALL BE CONTINUOUS, WITHOUT JOINTS OR GAPS.
- 13 PIPING SHALL BE CONCEALED EXCEPT IN MECHANICAL ROOMS AND AS INDICATED. WHERE PIPES DROP IN BLOCK WALLS, PROVIDE 1/2" THICK INSULATION MINIMUM.
- 14 SEAL DUCTWORK AND PIPING THRU MECHANICAL ROOM FLOORS AND PARTITIONS, AND THRU FIRE-RATED ASSEMBLIES, WITH FIRESTOP MATERIAL AS SPECIFIED.
- 15 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
- 16 UNLESS SPECIFICALLY NOTED ON DRAWINGS PIPING SHALL ONLY BE ATTACHED TO TOP OF STEEL BAR JOISTS AT PANEL POINTS, TOP OR BOTTOM FLANGES OF STEEL BEAMS AND SIDE OF WOODEN BEAMS. PIPING SHALL NOT BE ATTACHED TO STEEL DECK UNDER ANY CIRCUMSTANCES

### **DEMOLITION NOTES**

- 1 DURING DEMOLITION PROPERLY CAP AND PROTECT ALL PIPING & DUCTWORK THAT WILL REMAIN IN OPERATION
- 2 WHERE EXISTING INSULATION TO REMAIN IS DAMAGED BY THE REQUIREMENTS OF WORK, REPLACE ANY DAMAGED
- 3 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
- 4 LOCATION OF EXISTING PIPING & DUCTWORK AS SHOWN ON DRAWINGS IS APPROXIMATE
- 5 COMPLETELY REMOVE ALL EQUIPMENT AS INDICATED & OR MISCELLANEOUS ARTICLES IN THEIR ENTIRETY INCLUDING AUXILLARY EQUIPMENT, PIPING, WIRING & CONDUIT
- 6 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
- 7 COORDINATE ELECTRICAL POWER DISCONNECTION PRIOR TO DEMOLITION WITH ELECTRICAL CONTRACTOR
- 8 ALL PIPING & DUCTWORK TO REMAIN SHALL HAVE ENDS TERMINATED IN A NEAT MANNER READY FOR CONNECTION OF NEW WORK. ALL EXPOSED ENDS OF PIPING SHALL BE CAPPED
- 9 EXISTING PIPING NOT TO BE REUSED, NOT SUPPLYING ANY EQUIPMENT AND NOT SPECIFICALLY NOTED OR SHOWN ON DRAWINGS TO BE ABANDONED, SHALL BE COMPLETELY REMOVED
- 10 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
- 11 DEMOLISH & COMPLETELY REMOVE EXISTING CONDITIONS DESIGNATED BY A HEAVY DASHED LINE UNLESS NOTED OTHERWISE. REFER TO LEGEND AND DEMOLITION PLANS FOR SCOPE OF WORK



Graphic Scale



Harriman

YORK HIGH SCHOOL

FAMILY SCIENCES

**CLASSROOM RENOVATION** 

YORK, MAINE

22328

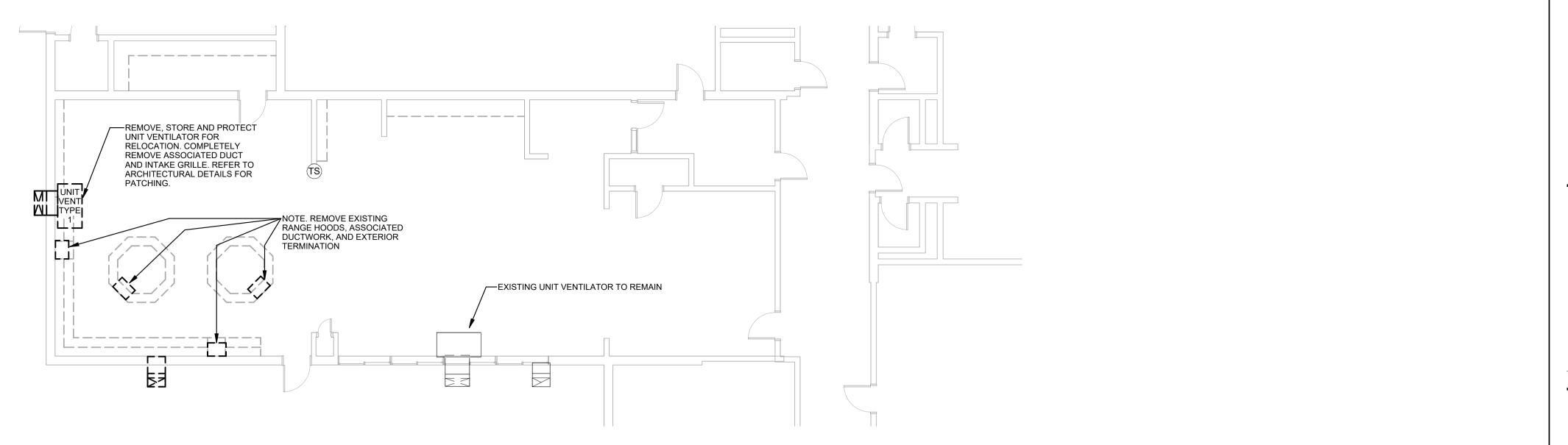
Harriman Project No.

### **CONSTRUCTION DOCUMENTS**

JANUARY 30, 2024 Revision Date Revision Description

Drawn by: MSJ

**LEGEND & GENERAL** NOTES



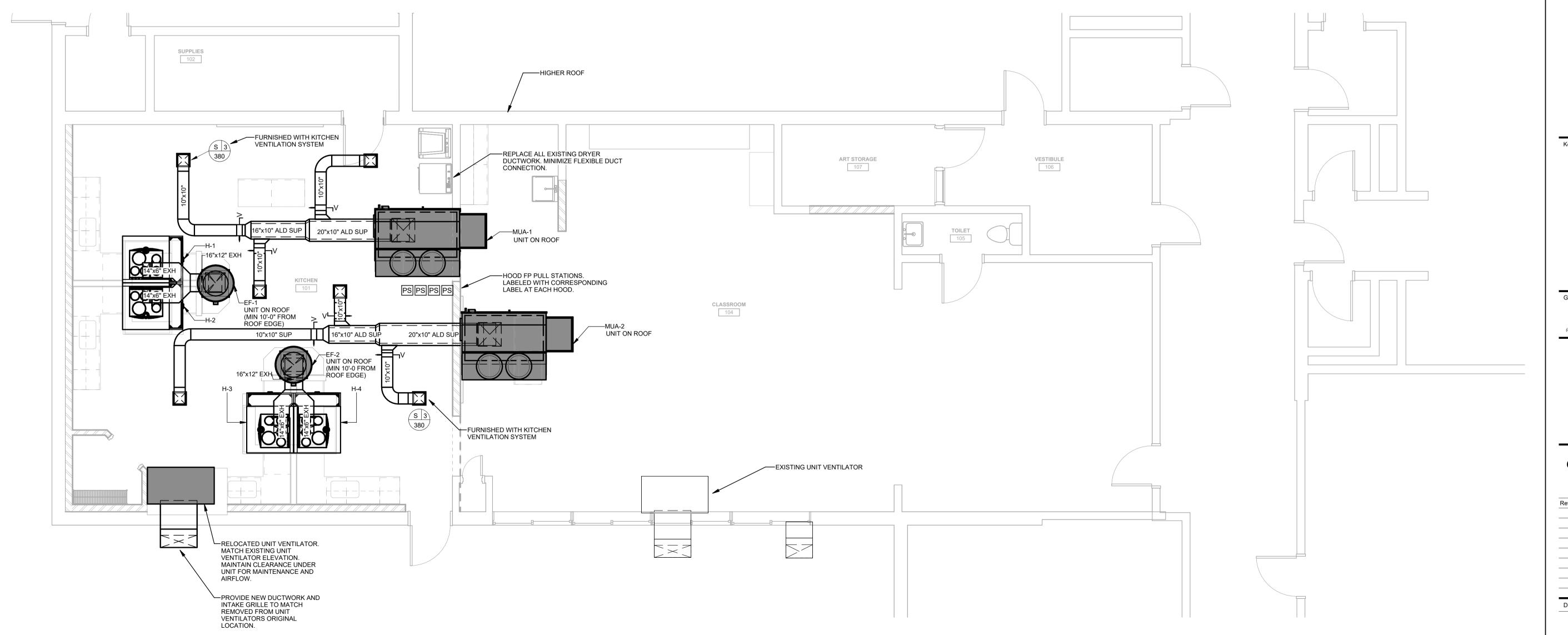
YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

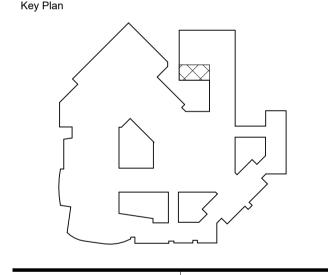
YORK, MAINE

Harriman Project No. 22328

FIRST FLOOR DEMOLITION DUCTWORK

SCALE: 1/8" = 1'-0"





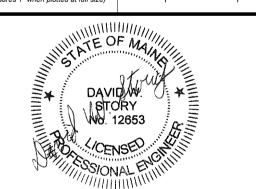
Graphic Scale

O"

(scale measures 1" when plotted at full size)

Plan North

True North



**CONSTRUCTION DOCUMENTS** 

JANUARY 30, 2024

Revision Date Revision Description

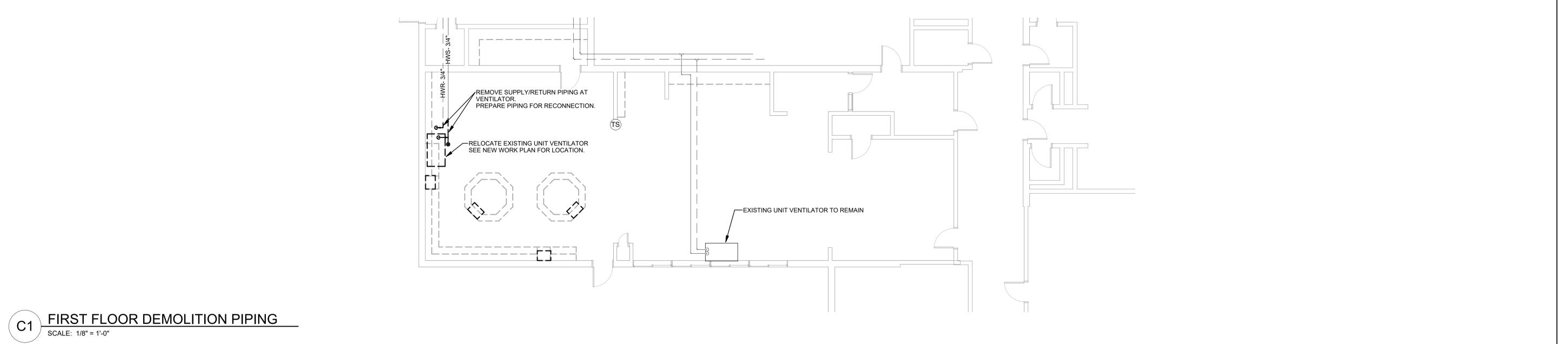
Drawn by: MSJ

FIRST FLOOR DUCTWORK

M10-1

A1 FIRST FLOOR DUCTWORK

SCALE: 1/4" = 1'-0"

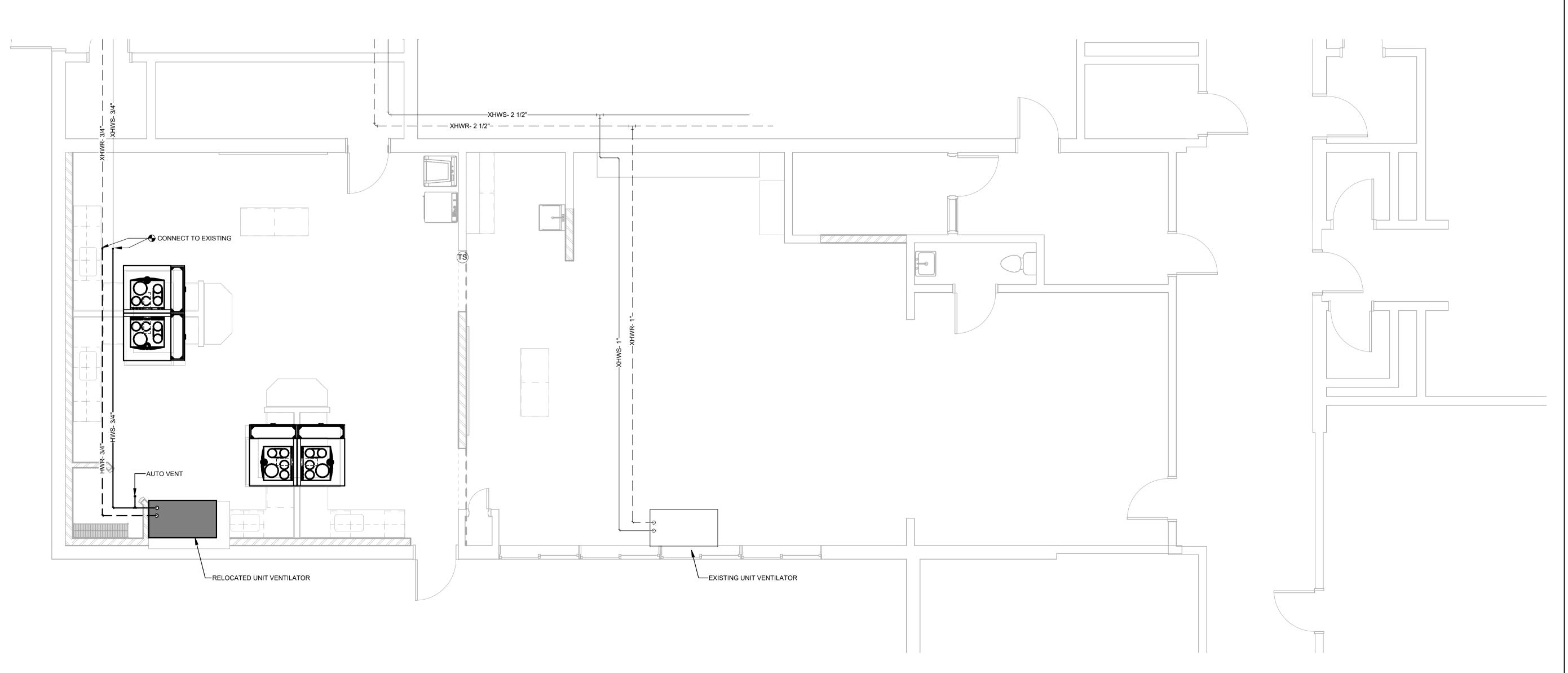


YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

22328

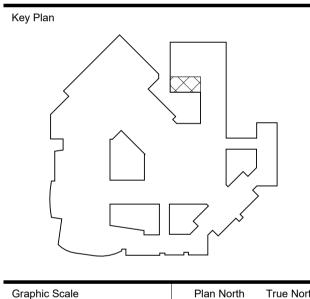
YORK, MAINE

Harriman Project No.



FIRST FLOOR PIPING

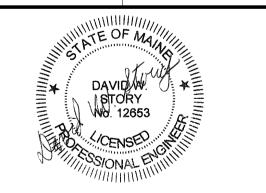
SCALE: 1/4" = 1'-0"



Graphic Scale

O"

(scale measures 1" when plotted at full size)



**CONSTRUCTION DOCUMENTS** 

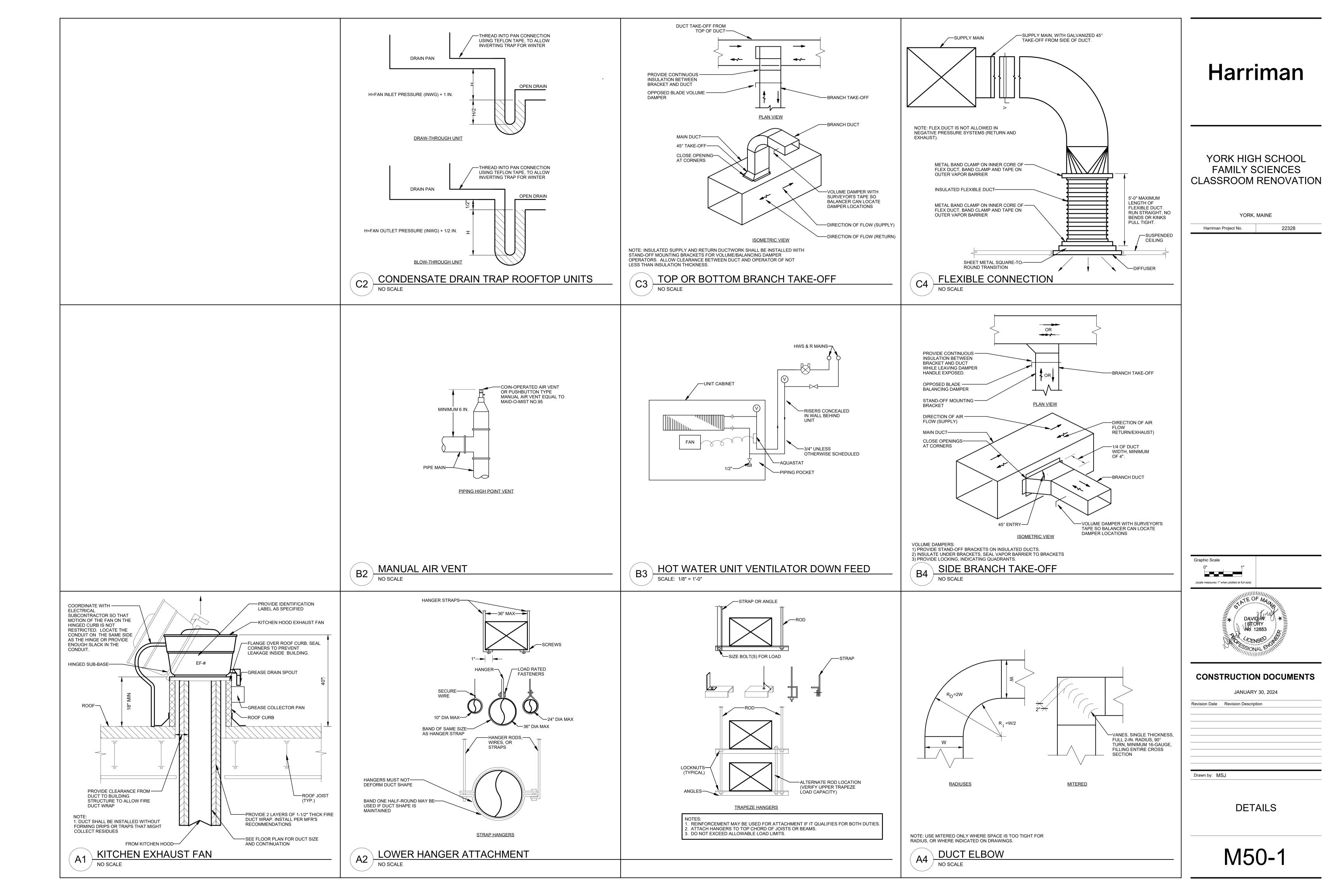
JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MSJ

FIRST FLOOR PIPING

M20-1



FOR QUESTIONS, CALL THE Maine Office REGION 21 PHONE: (207) 796 - 2590

PATENT NUMBERS

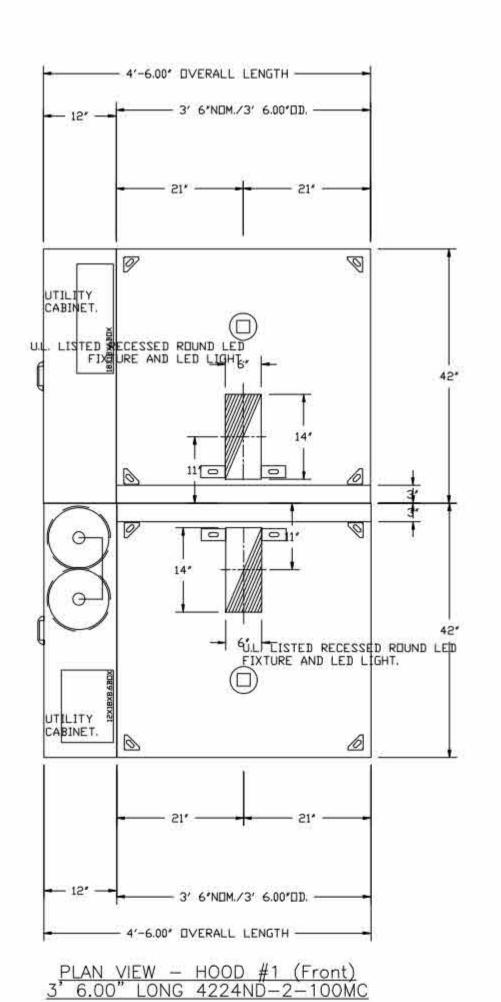
EXHAUST HODDS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

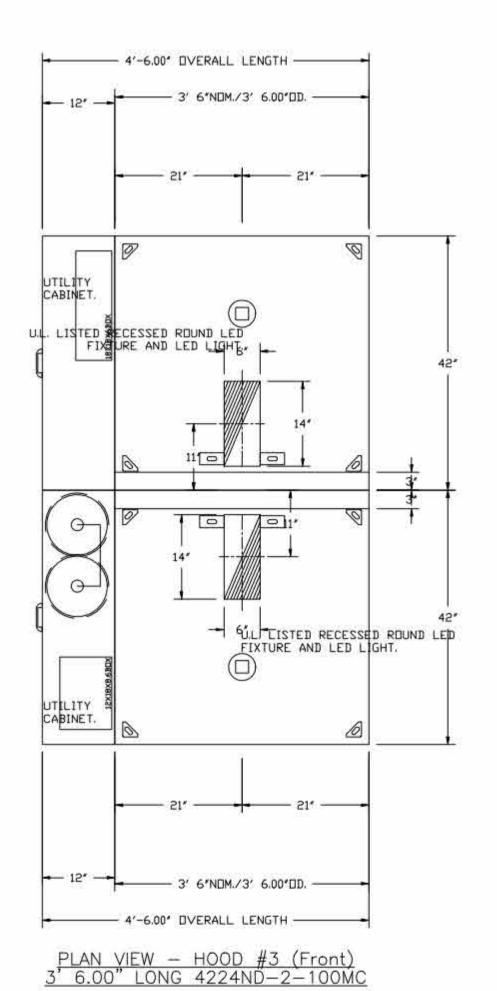
EMAIL: reg21@captiveaire.com

HOOL	D INFO	ORMATION	I - JOB#64	36463															
A. W. (240-400)			-		MAX		VOLUMENT STATES AND A	59563570757	5-2-4-0010 9			EXHA	UST P	LENUM	1		Warranie e	HOOD C	CONFIG
HDDD	TAG	MODEL	MANUFACTURER	LENGTH	COOKING	TYPE	APPLIANCE		TOTAL			F	RISER	(2)	-		HDDD	END TO	7-91-95/201
ND	1.110	Huber	HINOI HOTOKEK	LENGIN	TEMP	1.11.6	DUTY	CFM/FT	EXH CFM	WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	CONSTRUCTION	END	RDW
1	Front	4224 ND-2	CAPTIVEAIRE	3′ 6″	450 DEG	Ĭ	MEDIUM	175	612	14"	6*	8"		612	1049	-0.328*	304 SS 100%	ALONE	FRONT
2	Back	4224 ND-2	CAPTIVEAIRE	3′ 6″	450 DEG	I	MEDIUM	175	612	14"	6"	8*		612	1049	-0.328*	304 SS 100%	ALONE	BACK
3	Front	4224 ND-2	CAPTIVEAIRE	3′ 6″	450 DEG	I	MEDIUM	175	612	14"	6*	8"		612	1049	-0.328*	304 SS 100%	ALONE	FRONT
4	Back	4224 ND-2	CAPTIVEAIRE	3′ 6″	450 DEG	I	MEDIUM	175	612	14"	6*	8″		612	1049	-0.328*	304 SS 100%	ALONE	BACK

11001	11111	ORMATION		FILTER	(2			LIGHT(S)		8		U1	TILITY CABINET(S	)		FIDE	) innn
HDDD	TAG			100	6	EFFICIENCY @ 7			WIRE	1			SYSTEM	ELECTRICAL	SWITCHES	FIRE	HOOD HANGIN
ND	1,64	TYPE	QTY	HEIGHT	LENGTH	MICRONS	QTY	TYPE	GUARD	LOCATION	SIZE	TYPE	SIZE	MDDEL #	QUANTITY		WEIGHT
1	Front	CAPTRATE SOLO FILTER	2	16"	20*	85% SEE FILTER SPEC	1	RECESSED ROUND	ND	LEFT	12"×42"×24"	TANK FS	4.0/4.0			YES	510 LBS
2	Back	CAPTRATE SOLD FILTER	2	16*	20*	85% SEE FILTER SPEC	1	RECESSED ROUND	ND	RIGHT	12"×42"×24"			SC-311110MA	1 LIGHT 1 FAN	YES	341 LBS
3	Front	CAPTRATE SOLO FILTER	2	16"	20*	85% SEE FILTER SPEC	1	RECESSED ROUND	ND	LEFT	12"×42"×24"	TANK FS	4.0/4.0			YES	510 LBS
4	Back	CAPTRATE SOLD FILTER	2	16"	20*	85% SEE FILTER SPEC	1	RECESSED ROUND	ND	RIGHT	12"×42"×24"			SC-311110MA	1 LIGHT 1 FAN	YES	341 LBS

ND COOH	TAG	DPTION	
		FIELD WRAPPER 18.00" HIGH	FRONT, LEFT, RIGHT.
1	F4	ELEC COLD AIR BACKDRAFT DAMPRS.	155 100
1	Front	RISER SENSOR INSTALL 6IN PLEN.	
		MIN 18 GAUGE HOOD.	
		FIELD WRAPPER 18.00" HIGH	FRONT, LEFT, RIGHT.
- 0	D1.	ELEC COLD AIR BACKDRAFT DAMPRS.	
5	Back	RISER SENSOR INSTALL 6IN PLEN.	
		MIN 18 GAUGE HOOD.	
		FIELD WRAPPER 18.00" HIGH	FRONT, LEFT, RIGHT.
3	Format	ELEC COLD AIR BACKDRAFT DAMPRS.	
3	Front	RISER SENSOR INSTALL 6IN PLEN.	
		MIN 18 GAUGE HOOD.	
		FIELD WRAPPER 18.00" HIGH	FRONT, LEFT, RIGHT.
4	Back	ELEC COLD AIR BACKDRAFT DAMPRS.	
3.96	BUCK	RISER SENSOR INSTALL GIN PLEN.	
		MIN 18 GAUGE HOOD.	





SPECIFICATION: CAPTRATE GREASE-STOP SOLD FILTER

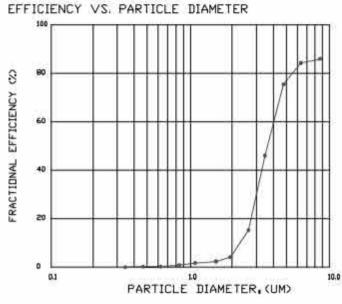
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER. PRESSURE DROP VS. FLOW RATE



FLOW RATE (CFM)

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH, NFPA #96. NSF STANDARD #2.

UL STANDARD #1046. INT. MECH. CODE (IMC). ULC-S649.









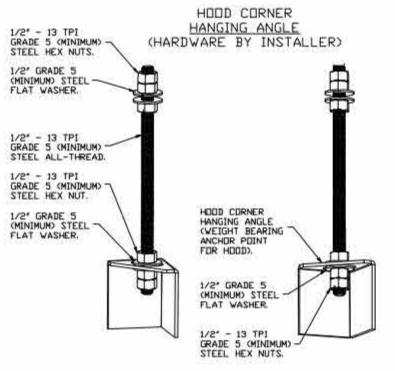
YORK HIGH SCHOOL FAMILY SCIENCES **CLASSROOM RENOVATION** 

22328

YORK, MAINE

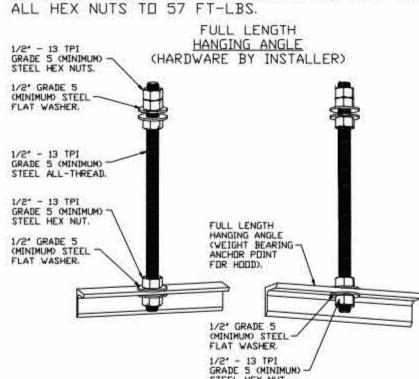
Harriman Project No.





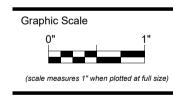
### ASSEMBLY INSTRUCTIONS

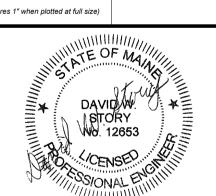
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN, MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS, MAINTAIN 1/4" DF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE



### ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN, MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS, SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.





### **CONSTRUCTION DOCUMENTS**

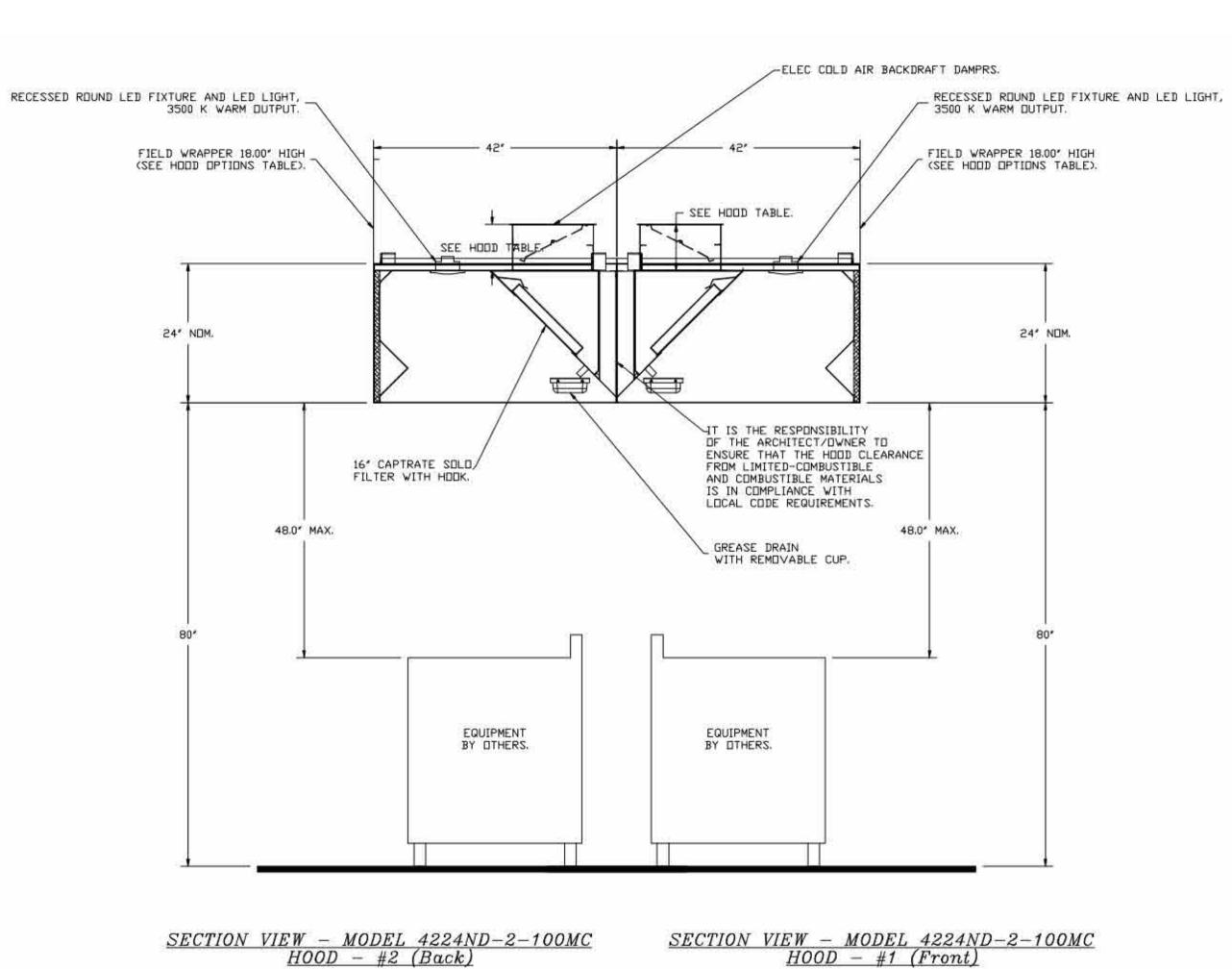
JANUARY 30, 2024

Revision Date Revision Description

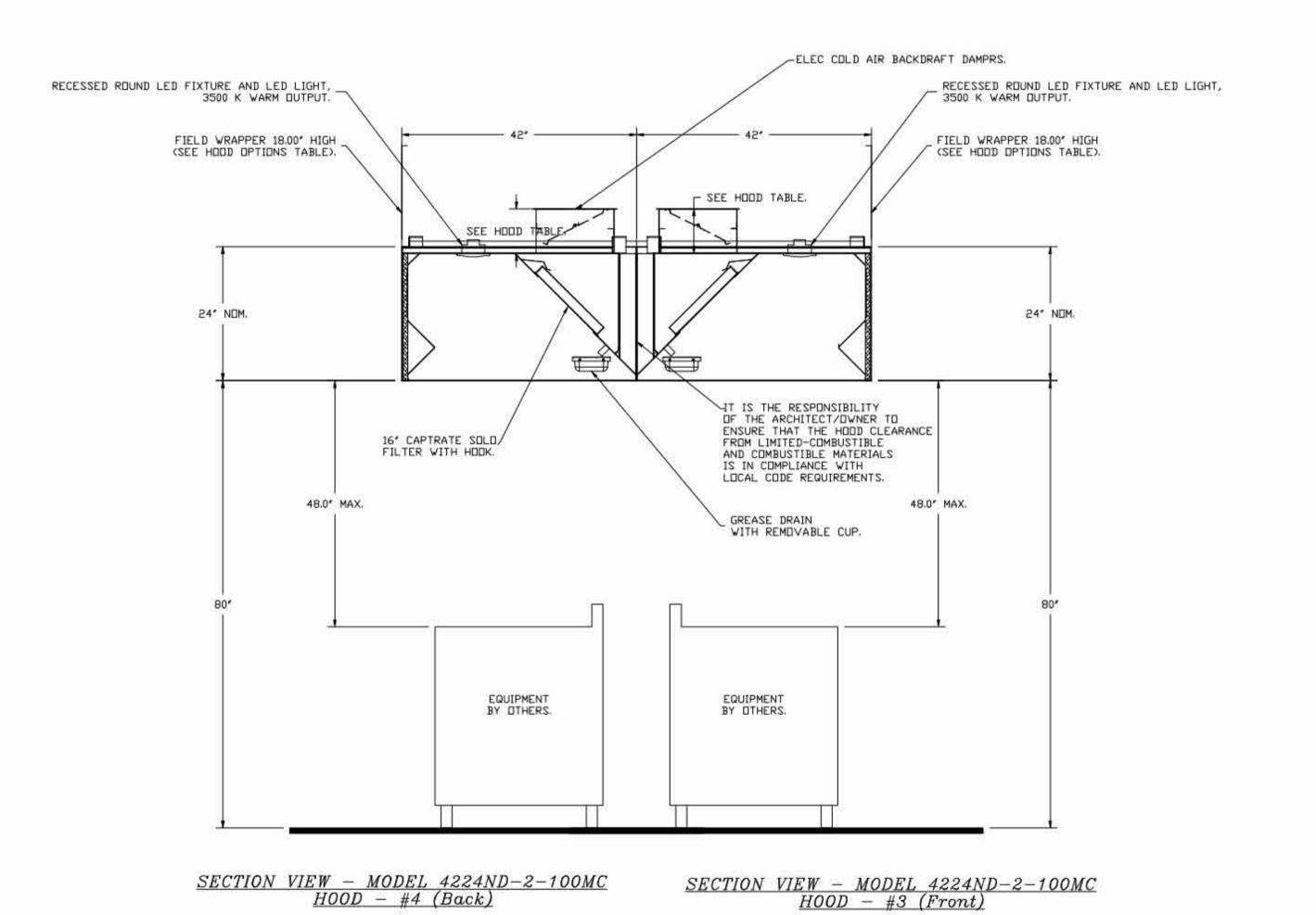
Drawn by: MSJ

**DETAILS** 

M50-2



QTY 8-DROP-IN PERFORATED SUPPLY PLENUM DIFFUSER (DI-PSP) FEATURES: STAINLESS STEEL PERFORATION AND TRIM REMOVABLE PERFORATION FOR PLENUM CLEANING DOUBLE PERFORATION FOR EVEN AIR DISTRIBUTION 1/2" THICK INSULATION ON EXTERIOR TOP AND SIDES APPROX. WEIGHT = 20 lbs -22" X 22" DOUBLE LAYER PERFORATED STEEL STEEL HANGING WIRE MINIMUM 2 PLACES, DIAGONAL CORNERS (BY OTHERS) INSTALLATION NOTES: INTENDED FOR INSTALLATION IN LAY IN (DROP) CEILINGS INSTALL SLIDING RADIAL DAMPER ON TOP SIDE OF COLLAR



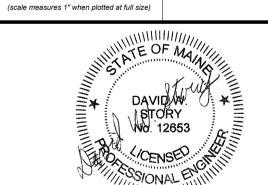
### Harriman

YORK HIGH SCHOOL FAMILY SCIENCES **CLASSROOM RENOVATION** 

YORK, MAINE

Harriman Project No. 22328

Graphic Scale 



### CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MSJ

**DETAILS** 

FIRE SYSTEM INFORMATION - JOB#6430	2 400
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	01011111	1111 011111111111	302#3133133	The state of the s	· 'T	CTNOTONICE	ACTOTICAL
FIRE				200000000000000000000000000000000000000	DESIGN -	INSTALL	ATILIN
SYSTEM NO	TAG	TYPE	SIZE	MAX FP	FP	SYSTEM	LOCATION ON HODD
1	GROUP 1	TANK FS	4.0/4.0	40	36	FIRE CABINET LEFT	LEFT, HODD 1
5	GROUP 2	TANK FS	4.0/4.0	40	36	FIRE CABINET LEFT	LEFT, HODD 3

FIRE SYSTEM PARTS LIST KEY

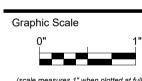
FIRE YSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.  0 - 0 - 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO.	1	0
		CLOSE ON TEMP RISE AT 360°F.	2	0
		0 - 0 - 32-00002 QUIK SEAL - 1/2" (UL). 0 - 0 - 361091 3/8" BRASS PLUG.	5	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	5	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 79425 3/8" NPT FEMALE TO 1/2" MALE PROPRESS ADAPTER.	2	0
		0 - 0 - 79525 1/2" 90 PRD-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.  0 - 0 - 79580 1/2" X 1/2" PRD-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	1 2	0
		0 - 0 - 87-120042-001 SECUNDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5° BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENDID	1.	0
		ASSEMBLY, DNE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.  0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	9	0
		0 - 0 - 9097200PC PRD PRESS PC611 1/2 PRESS TEE LD.	7	0
	825: 121	0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16° ZINC, TANK FIRE SUPPRESSION.	4	0
1	Group 1	0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION, 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4"	1-	0
		MPT HALF UNION, USED ON TANK SERVICE PORT.  0 - 0 - BI145 3/8" BLACK IRON 90 ELL.	4	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION	2	0
		IN UTILITY CABINETS, TANK FIRE SUPPRESSION.		U
		0 - 0 - SLPCON-03FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 2' GAP. KIT CONTAINS 5 FEET OF BLACK MG WIRE, 5 FEET OF TAN MG WIRE, 3 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		O - O - SLPCON-15FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 14' GAP OR BACK TO BACK HOODS. KIT CONTAINS 17 FEET OF BLACK MG WIRE, 17 FEET OF TAN MG WIRE, 15 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	5	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	8	0
		16 - 16 - DL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL	8	0
		BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).  26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	8	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION)		
		WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT, RED COLOR.	1.	0
		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.  0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1.	0
		0 - 0 - 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO.	040	-
		CLOSE ON TEMP RISE AT 360°F.	5	0
		0 - 0 - 32-00002 QUIK SEAL - 1/2" (UL). 0 - 0 - 361091 3/8" BRASS PLUG.	2	0
		0 - 0 - 361091 378 BRASS PLOG. 0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	5	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 79425 3/8" NPT FEMALE TO 1/2" MALE PROPRESS ADAPTER.	2	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.  0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES	2	0
		PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1,	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	100	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENDID	1.	0
		ASSEMBLY, DNE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.  0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	9	0
		0 - 0 - 9097200PC PRD PRESS PC611 1/2 PRESS TEE LD.	7	0
	NEW NA	0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16' ZINC, TANK FIRE SUPPRESSION.	4	0
2	Group 2	0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION, 1.5" DEEP BACK BOX, RED COLOR.	1.	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES 1/4" FLARE X 1/4"	1	0
		MPT HALF UNION, USED ON TANK SERVICE PORT.  0 - 0 - BI145 3/8" BLACK IRON 90 ELL.	4	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION	2	0
		IN UTILITY CABINETS, TANK FIRE SUPPRESSION.  0 - 0 - SLPCON-O3FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 2' GAP. KIT CONTAINS 5 FEET OF BLACK MG WIRE, 5 FEET OF TAN MG WIRE, 3 FEET OF FLEXIBLE CONDUIT,	1	0
		AND TWO 7/8" CONNECTORS.  0 - 0 - SLPCON-15FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 14' GAP OR BACK TO BACK HOODS. KIT CONTAINS 17 FEET OF BLACK MG WIRE, 17 FEET OF TAN MG WIRE,	2	0
		15 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.  0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TES-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY	1.50	
		CABINETS, TANK FIRE SUPPRESSION.	5	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	5	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.  16 - 16 - DL-F NDZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL	8	0
		BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	8	0
	1	26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	8	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION)		

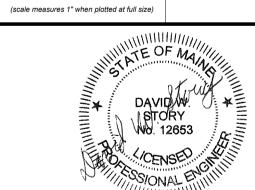
## Harriman

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No.	22328





### **CONSTRUCTION DOCUMENTS**

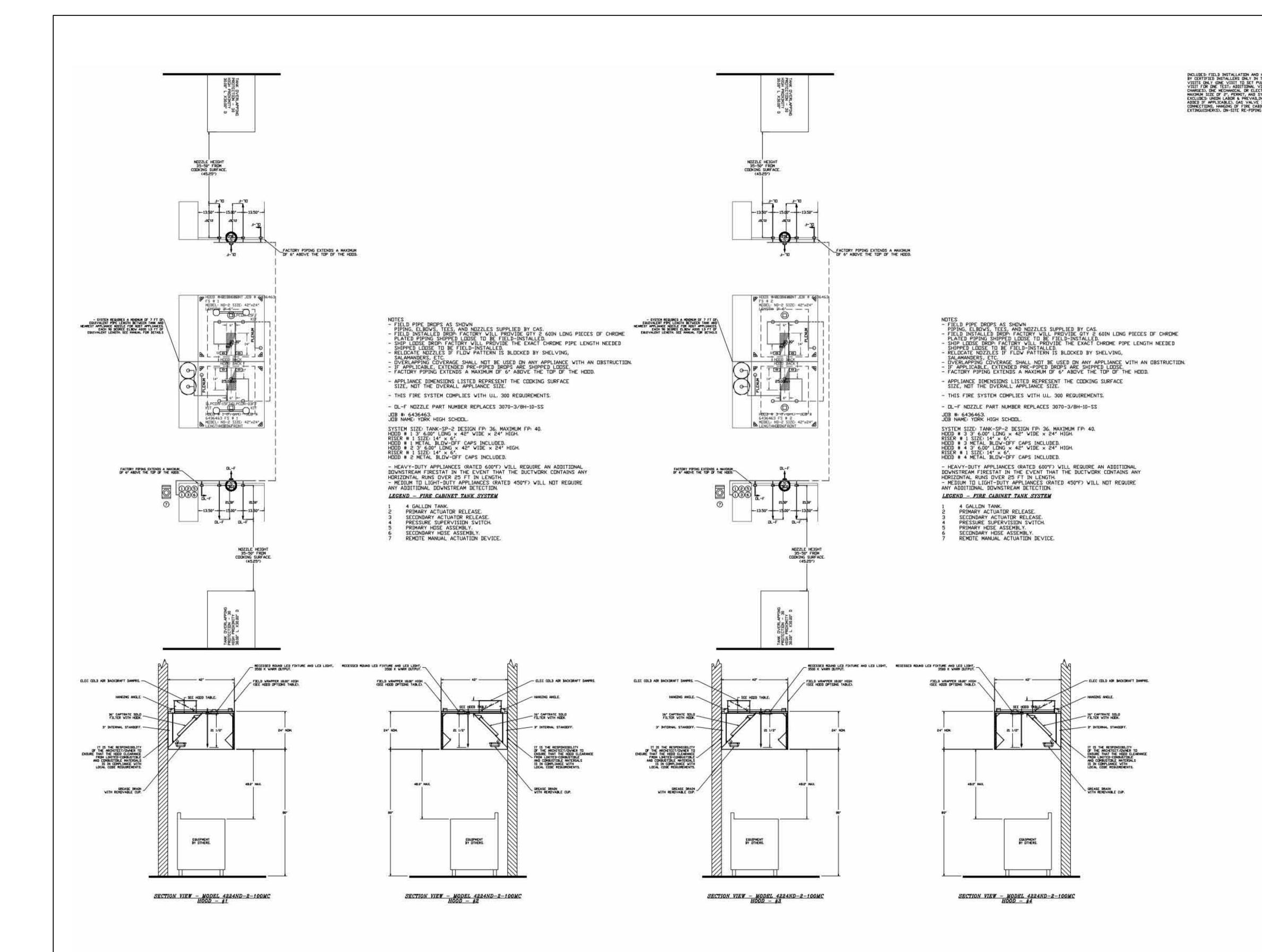
JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MSJ

DETAILS

M50-4



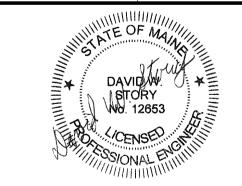
YORK HIGH SCHOOL FAMILY SCIENCES **CLASSROOM RENOVATION** 

YORK, MAINE

22328

Harriman Project No.

Graphic Scale (scale measures 1" when plotted at full size)



### CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date Revision Description

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**DETAILS** 

M50-5

#### EXHAUST FAN INFORMATION - JOB#6436463

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	VEIGHT (LBS)	SONES
1	GROUP 1	1	DU85HFA	CAPTIVEAIRE	1224	0.750	1051	TEAD-ECM	0.750	0.2290	1	115	8.9	387 FPM	96	6.9
2	GROUP 2	1	DU85HFA	CAPTIVEAIRE	1224	0.750	1051	TEAD-ECM	0.750	0.2290	1	115	8.9	387 FPM	96	6.9

#### DOAS/RTU FAN SCHEDULE - JOB#6436463 FAN INFORMATION

				FA	AN INFO	RMATION								ELEC	TRICAL	INFOR	ATION				CODLI	NG INF	DRMATION	4				REHEA	T INFORM	MATION						GAS HEAT INFORMATION	HE	AT PUMP IN	FORMATION		
FAN	TAC	5 6	270	DOAS (DTH MODE) #	MANU	EACTURE	DI MUCO	RETUR	N MAX	TO	TAL V	VEIGHT	622	UD DU	SE VE	T 40	A MOC	DUT	SIDE AIR	LE	EAVING A	IR	CAF	PACITY	IEER		DISCHARG	E	CAPACIT	TY	MDISTURE REMOVAL	GAS	INPUT	DUTPU	T TEMP	REQUIRED INPUT	ENTERING	MAX	DISCHARGE	CDB	NOTES
ND		an (15.86	et i	DDAS/RTU MDDEL #	Property	FACTURE	BLUNE	AIR C	M AIR C	FM C	FM	(LBS)	ESF	ne lene	2F AR	40.000	A MUC	DB	WB	DB	WB	DP	TOTAL	SENS	ILLE	TOWKE	DB W	B DES	IRED	MAX	RATE	TYPE	BTUs	BTUs	RISE	REQUIRED INPUT GAS PRESSURE	TEMP	TEMP RISE	TEMP	CUP	
3	GROUP	MUA	1	CASRTU1-I.150-13-6T	CAP	TIVEAIRE	13P-1	0	1150	0 11	150	1369	0.500	.00 3	20	8 30.	5A 35#	89.6	F 72.7*F	49.9*F	49.6*F	49.4*F	79.9 MB	H 48.2 M	BH 19.5	9.2	70.0°F 58.	7°F 26.1	MBH 56	6 мвн 2	8.9 LBS/HR	NATURA	L 134864	10924	0 77*F	7 IN. W.C 14 IN. W.C.	2.0*F	26.0°F	71.0*F	3.6	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15
4	GROUP 8	2 MUA	1	CASRTU1-I.150-13-6T	CAP	TIVEAIRE	13P-1	0	1150	0 11	150	1369	0.500	.00 3	20	8 30.	5A 35A	89.6	F 72.7*F	49.9°F	49.6°F	49,4°F	79.9 MB	H 48.2 M	BH 19.5	9.2	70.0°F 58.	7°F 26.1	MBH 56	6 мвн 5	8.9 LBS/HR	NATURA	L 134864	10924	0 77*F	7 IN. V.C 14 IN. V.C.	2.0*F	26.0°F	71.0°F	3.6	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

NOTES:

1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED DIL SENSOR. DIGITAL DR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
11. SUPPLY COFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
12. FOLLLY MODULATING HOT GAS REHEAT
13. FACTORY INSTALLED COMPRESSOR SOUND BLANKET
14. 1'E EXTERIOR DUAL—WALL CONSTRUCTION W/ R-4.3 INSULATION-MINIMUM 24GA EXTERIOR W/ 18GA BASE
15. DOWN DISCHARGE/ND RETURN

AN	OPTIONS		A SOCIETY AND THE PROPERTY OF
	TAG	QTY	DESCRIPTION
ND		-	COPACE DOV
		1	GREASE BOX
		1	UPBLAST FAN WHEEL ACCESS PORT
1	GROUP 1	1	3 YEAR EXTENDED MOTOR WARRANTY
	#6/200 F2	1	FAN BASE CERAMIC SEAL - SHIP LODSE - FOR GREASE DUCTS  ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMOS PREWIRE (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	GREASE BOX
		1	UPBLAST FAN WHEEL ACCESS PORT
	6809900000000	1	3 YEAR EXTENDED MOTOR WARRANTY
5	GROUP 2	i	FAN BASE CERAMIC SEAL - SHIP LODSE - FOR GREASE DUCTS
		i	ECM VIRING PACKAGE - PVM SIGNAL FROM ECPMO3 PREVIRE (TELCO MOTOR), CCV ROTATION
		1	2 YEAR PARTS WARRANTY
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10' WC, 1 FURNACE
		1	INTAKE FIRESTAT SET TO 135*F
		1	FREEZESTAT
	1	1	DISCHARGE FIRESTAT SET TO 240°F
	1	1	SHIP LODSE GAS STRAINER 3/4"
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	2" MERV 13 FILTERS FOR RTUI (QTY. 4)
		1	2' MERV 8 FILTERS FOR RTUI (QTY. 4)
	1	1	DVERHEAT STAT
		1	RTUI DOWN DISCHARGE
		1	RTU FIXED 100% DA INTAKE CONTROL
	1	1	RTU1 ND RETURN - 100% DA
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
	1	1	RTU1 CURB DUCT HANGER
***	Temperature (a to the second	1	24VAC FIRE INPUT
3	GROUP I MUA	1	DCCUPIED SCHEDULING
	5	1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
	1	- 2	RTUI CONVENIENCE DUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION.
		1	INCLUDES RECEPTACLE, COVER AND J BOX
		-	6 TON MODULATING COOLING OPTION WITH HEAT PUMP, 208/230V. R410A REFRIGERANT,
		1	VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	RTU SIZE 1 INTAKE HODD, SHIPPED LODSE
		1	RTUVZH044 COMPRESSOR SOUND BLANKET 230/460/575V - FACTORY INSTALLED
		-1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
		1	6 TON MODULATING REHEAT OPTION WITH HEAT PUMP - SPACE DEWPOINT CONTROL
		- 02	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV
		1	PREVIRE CONTROLS THIS UNIT, THE #28, #47, 'MA', OR 'E2' PREVIRE OPTION MUST
		-	BE SELECTED, DOES NOT PROVIDE SUPPLY STARTER IN PREVIRE
		1	UNIT MOUNTED VFD CONFIGURED FOR DCV
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE
			PARTS WARRANTY (SEE ADDITIONAL DETAILS)
		1	INLET PRESSURE GAUGE, 0-35*
		1	MANIFOLD PRESSURE GAUGE, 0 TD 10' WC, 1 FURNACE
		1	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TO 240°F
	5	1	SHIP LODSE GAS STRAINER 3/4"
	1	1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
	1	1	2' MERV 13 FILTERS FOR RTUI (QTY. 4)
		1	2' MERV 8 FILTERS FOR RTUI (QTY. 4)
		1	DVERHEAT STAT
	3	1	RTUI DOWN DISCHARGE
	I .	_	RTU FIXED 100% DA INTAKE CONTROL
		1	ADDRESS OF THE STATE OF THE STA
		1	RTUI NO RETURN - 100% DA
		1	RTU1 NO RETURN - 100% DA  REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
	5	1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR RTU1 CURB DUCT HANGER
4	GROUP 2 MUA	1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR RTU1 CURB DUCT HANGER 24VAC FIRE INPUT
4	GROUP 2 MUA	1 1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR RTU1 CURB DUCT HANGER 24VAC FIRE INPUT DCCUPIED SCHEDULING
4	GROUP 2 MUA	1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR  RTUI CURB DUCT HANGER  24VAC FIRE INPUT  DCCUPIED SCHEDULING  CLOGGED FILTER SWITCH - NOTIFICATION DN HMI
4	GROUP 2 MUA	1 1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR RTU1 CURB DUCT HANGER 24VAC FIRE INPUT DCCUPIED SCHEDULING
4	GROUP 2 MUA	1 1 1 1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR  RTUI CURB DUCT HANGER  24VAC FIRE INPUT  DCCUPIED SCHEDULING  CLOGGED FILTER SWITCH - NOTIFICATION DN HMI  RTUI CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX
4	GROUP 2 MUA	1 1 1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR  RTU1 CURB DUCT HANGER  24VAC FIRE INPUT  DCCUPIED SCHEDULING  CLOGGED FILTER SWITCH - NOTIFICATION DN HMI  RTU1 CONVENIENCE DUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION.
4	GROUP 2 MUA	1 1 1 1 1 1	REMDTE TEMPERATURE AND HUMIDITY SPACE SENSOR  RTUI CURB DUCT HANGER  24VAC FIRE INPUT  DCCUPIED SCHEDULING  CLOGGED FILTER SWITCH - NOTIFICATION ON HMI  RTUI CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION.  INCLUDES RECEPTACLE, COVER AND J BOX  6 TON MODULATING COOLING OPTION WITH HEAT PUMP, 208/230V. R410A REFRIGERANT,
4	GROUP 2 MUA	1 1 1 1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR  RTUI CURB DUCT HANGER  24VAC FIRE INPUT  DCCUPIED SCHEDULING  CLOGGED FILTER SWITCH - NOTIFICATION ON HMI  RTUI CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX  6 TON MODULATING COOLING OPTION WITH HEAT PUMP, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
4	GROUP 2 MUA	1 1 1 1 1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR  RTUI CURB DUCT HANGER  24VAC FIRE INPUT  DCCUPIED SCHEDULING  CLOGGED FILTER SWITCH - NOTIFICATION ON HMI  RTUI CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX  6 TON MODULATING COOLING OPTION WITH HEAT PUMP, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS  RTU SIZE 1 INTAKE HOOD, SHIPPED LODSE  RTUVZH044 COMPRESSOR SOUND BLANKET 230/460/575V - FACTORY INSTALLED
4	GROUP 2 MUA	1 1 1 1 1 1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR  RTUI CURB DUCT HANGER  24VAC FIRE INPUT  DCCUPIED SCHEDULING  CLOGGED FILTER SWITCH - NOTIFICATION ON HMI  RTUI CONVENIENCE DUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX  6 TON MODULATING COOLING OPTION WITH HEAT PUMP, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS  RTU SIZE 1 INTAKE HOOD, SHIPPED LODSE  RTUVZHO44 COMPRESSOR SOUND BLANKET 230/460/575V - FACTORY INSTALLED  VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
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4	GROUP 2 MUA	1 1 1 1 1 1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR  RTUI CURB DUCT HANGER  24VAC FIRE INPUT  DCCUPIED SCHEDULING  CLOGGED FILTER SWITCH - NOTIFICATION DN HMI  RTUI CONVENIENCE DUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION.  INCLUDES RECEPTACLE, COVER AND J BOX  6 TON MODULATING COOLING OPTION WITH HEAT PUMP, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS  RTU SIZE 1 INTAKE HOOD, SHIPPED LOOSE  RTUVZHO44 COMPRESSOR SOUND BLANKET 230/460/575V - FACTORY INSTALLED  VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)  6 TON MODULATING REHEAT OPTION WITH HEAT PUMP - SPACE DEWPOINT CONTROL  SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST
4	GROUP 2 MUA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR  RTUI CURB DUCT HANGER  24VAC FIRE INPUT  DCCUPIED SCHEDULING  CLOGGED FILTER SWITCH - NOTIFICATION DN HMI  RTUI CONVENIENCE DUTLET (GFCD), IS AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX  6 TON MODULATING COOLING OPTION WITH HEAT PUMP, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS  RTU SIZE 1 INTAKE HOOD, SHIPPED LODSE  RTUVZHO44 COMPRESSOR SOUND BLANKET 230/460/575V - FACTORY INSTALLED  VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)  6 TON MODULATING REHEAT OPTION WITH HEAT PUMP - SPACE DEVPOINT CONTROL  SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV
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### FAN ACCESSORIES

FAN			EXHAUST		SUPF	PLY	
ND	TAG	GREASE CUP	GRAVITY DAMPER	SIDE DISCHARGE		MOTORIZED DAMPER	WALL
1	GROUP 1	YES			Ų.		

### 2 GROUP 2 YES

NO FAN		TAG	VEIGHT	ITEM	SIZE						
1	# 1	GROUP I	41 LBS	CURB	23.000°W X 23.000°L X 24.000°H VENTED HINGE						
2	# 2	GROUP I	41 LBS	CURB	23.000°W X 23.000°L X 24.000°H VENTED HINGE						
3	# 3	GROUP 1 MUA	113 LBS	CURB	41.000°W X 71.000°L X 24.000°H INSULATED.						
4	# 4	GROUP 1 MUA	113 LBS	CURB	41.000°W X 71.000°L X 24.000°H INSULATED.						

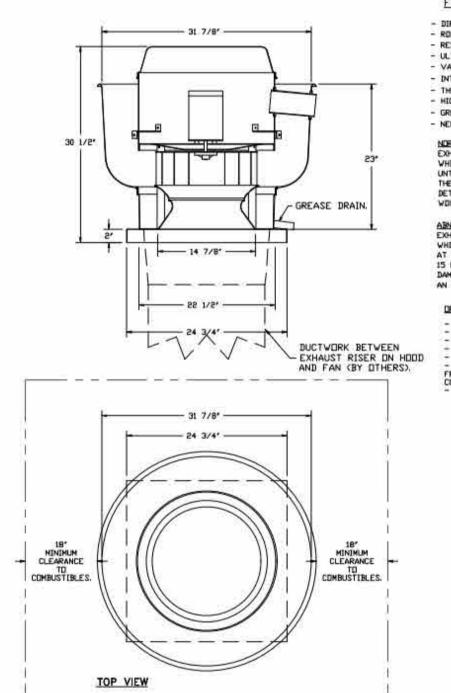
FAN UNIT	TAG	930608		ATA DAUGE		DCTAVE BAND SDUND DATA								
UNIT NO	TAG	MOTOR -	LWA	SDNES @ 5 FT	DBA @ 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 кнх	-	
1	GROUP 1	EXHAUST	67.3	6.87621421135438	55.8	5	69	71.6	69.4	64.1	61.6	58.1		
5	GROUP 2	EXHAUST	67.3	6.87621421135438	55.8	5	69	71.6	69.4	64.1	61.6	58.1	Г	

### UNIT SOUND DATA

FAN	N Annual					DCTAVE BAND SOUND DATA											
UNIT NO	TAG	MOTOR -	LVA	SONES @ 5 FT	DBA e 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	з кнх	4 KHZ	8 KHZ			
3	GROUP 1 MUA	SUPPLY	78.2	16.3	67.5	5	84.8	81.1	77.2	74.2	74.3	68.9	64.5	64.2			
4	GROUP 2 MUA	SUPPLY	78.2	16.3	67.5	5	84.8	81.1	77.2	74.2	74.3	68.9	64.5	64.2			

	н	MI SCHEDULE		
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #3	HMI #1 - UNIT HMI # 1	MOUNTED IN UNIT	NOT AVERAGED	55
FAN #3	HMI #2 - SPACE HMI # 1		AVERAGED	56
FAN #4	HMI #1 - UNIT HMI # 1	MOUNTED IN UNIT	NOT AVERAGED	55
FAN #4	HMI #2 - SPACE HMI # 1		AVERAGED	56

#### FANS #1 (GROUP 1), #2 (GROUP 2) - DUBSHFA EXHAUST FAN



FEATURES! - DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS. - RESTAURANT MODEL - UL705 AND UL762 AND ULC-\$645 - VARIABLE SPEED CONTROL. - INTERNAL WIRING

- THERMAL DIVERLIDAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING. - NEMA 3R SAFETY DISCONNECT SWITCH. NORMAL TEMPERATURE TEST
EXHAUST FAN NUST OPERATE CONTINUOUSLY
WHILE EXHAUSTING AIR AT 300°F (149°C)
UNTIL ALL FAN PARTS HAVE REACHED
THERMAL EQUILIBRIUM, AND VITHOUT ANY
DETERIORATING EFFECTS TO THE FAN VHICH
WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY
WHILE EXHAUSTING BURNING GREASE VAPORS
AT 600°F (316°C) FOR A PERIOD OF
15 MINUTES WITHOUT THE FAN BECOMING
DAMAGED TO ANY EXTENT THAT COULD CAUSE
AN UNSAFE CONDITION.

- GREASE BOX.

- UPBLAST FAN WHEEL ACCESS PORT.

- 3 YEAR EXTENDED HOTOR WARRANTY.

- FAN BASE CERAMIC SEAL - SHIP LODSE

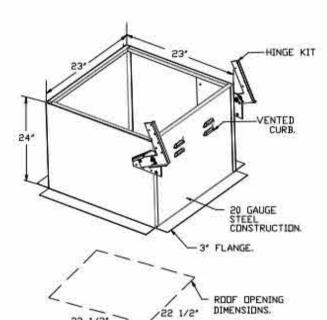
- FOR GREASE DUCTS.

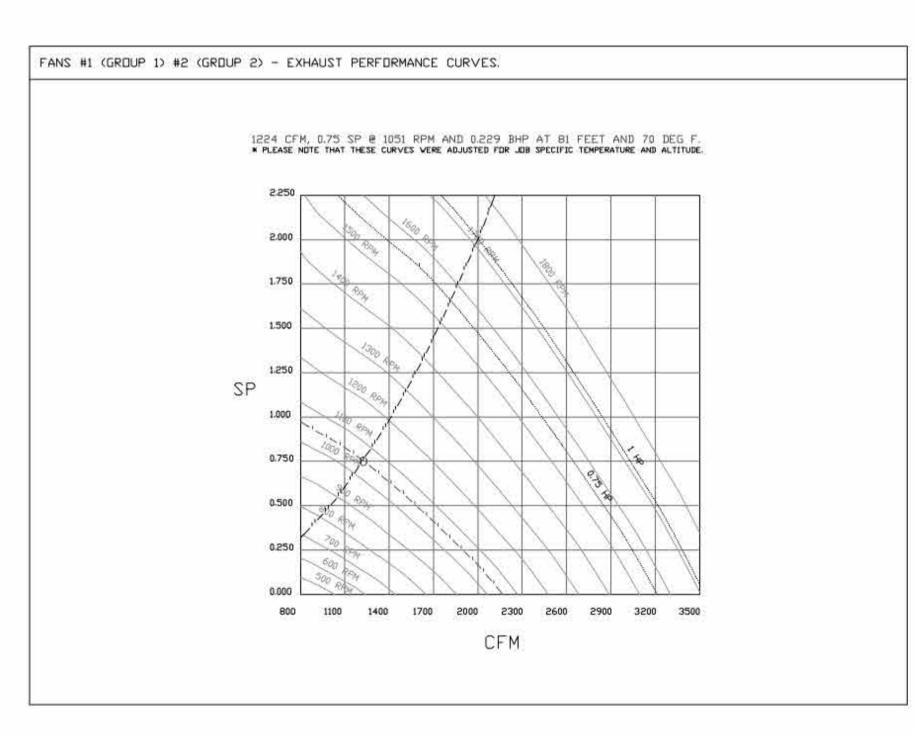
- ECM WIRING PACKAGE - PWM SIGNAL

FROM ECPMOS PREWIRE (TELCO MOTOR).

CCW ROTATION.

- 2 YEAR PARTS WARRANTY.

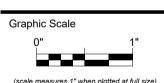


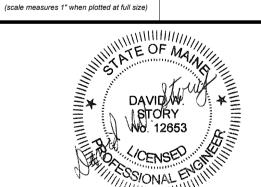


YORK HIGH SCHOOL FAMILY SCIENCES **CLASSROOM RENOVATION** 

YORK, MAINE

Harriman Project No. 22328





### **CONSTRUCTION DOCUMENTS**

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MSJ

**DETAILS** 

FAN #3 (GROUP 1 MUA), #4 (GROUP 2 MUA) - CASRIU1-I.150-13-6T HEATER NOTES:

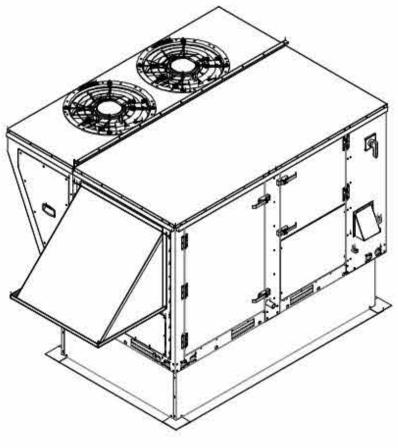
- 1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL
- DR DUTSIDE AIR FAN.

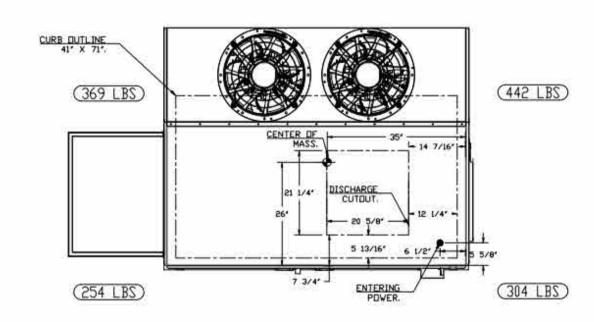
  2. DENOTES CORNER WEIGHT.
- 3. ROOF OPENING MUST BE 2" SMALLER THAN CURB
- DIMENSIONS IN BOTH DIRECTIONS.

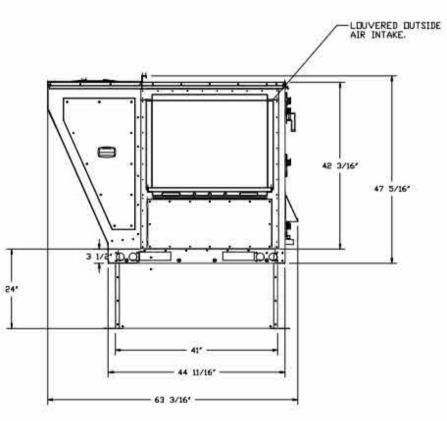
  4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

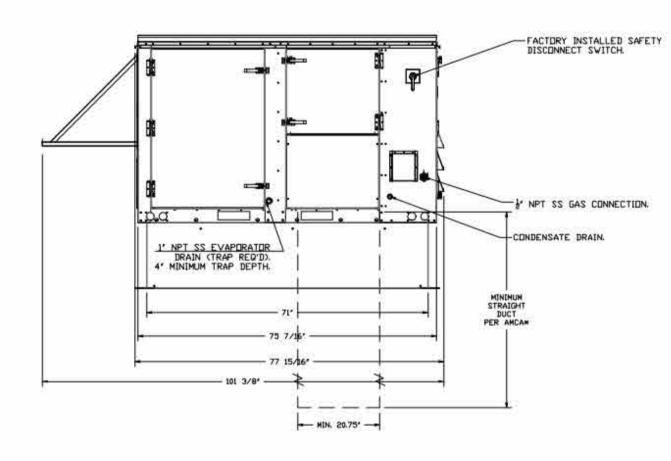
\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS, A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201, WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT, SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY, FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.

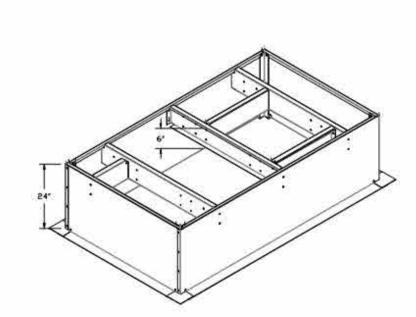
SUGGESTED STRAIGHT DUCT SIZE IS 20.75" × 21.5".

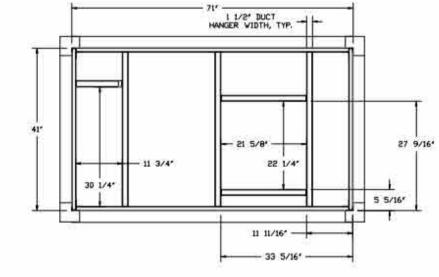


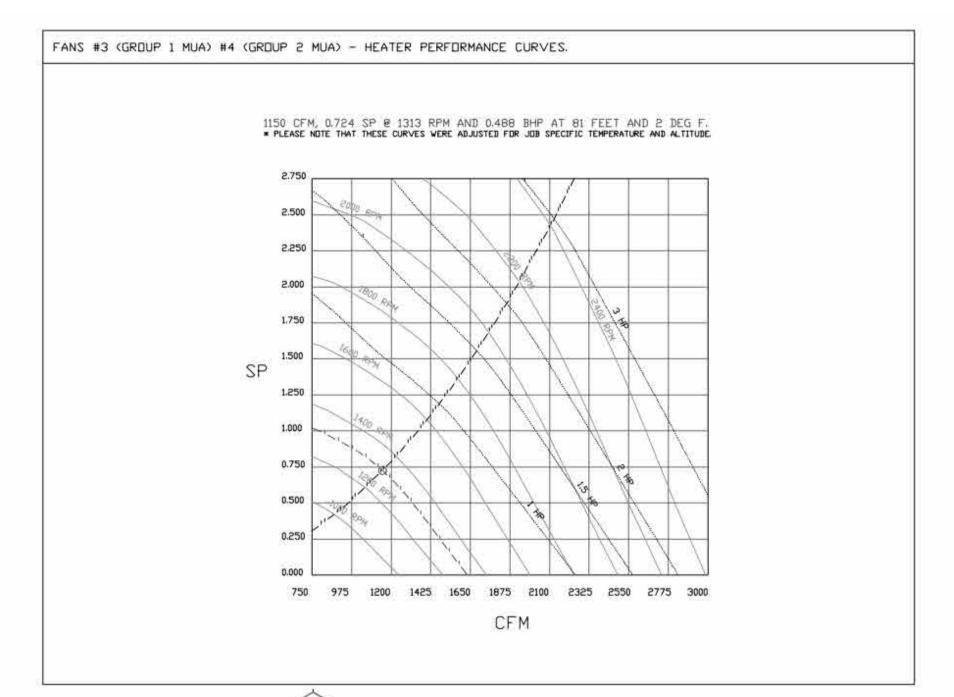


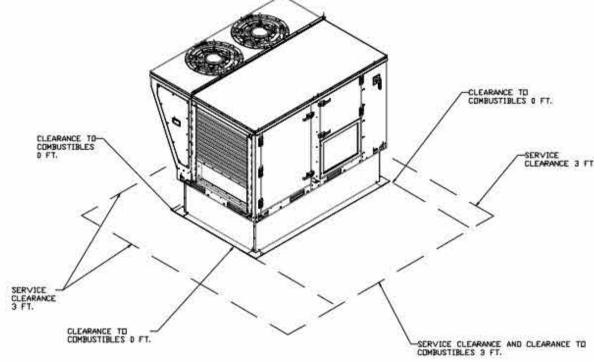






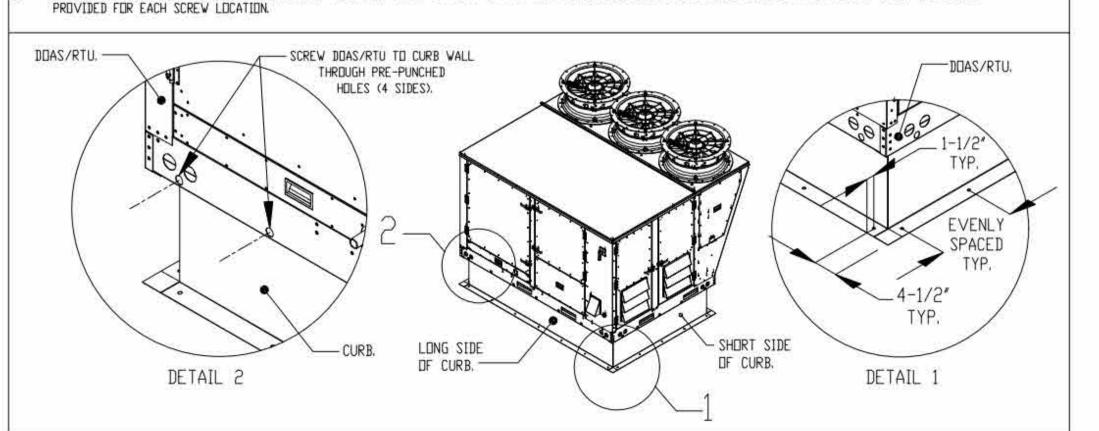






### TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

- 1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.
- 2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4'-14 X 2' SELF-DRILLING, STEEL ZINC PLATED SCREWS, PRE-PUNCHED HOLES HAVE BEEN



### Harriman

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

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22328

TOTAL, WATER

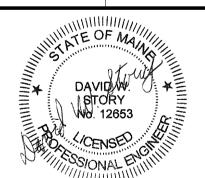
Harriman Project No.

Graphic Scale

0" 1"

(scale measures 1" when plotted at full size)

(SCALE MANUAL MAN



### CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MSJ

DETAILS

N/50-7

	KITCHEN MAKE UP UNIT SCHEDULE																			
							GAS HEAT					COOLING INF	ORMATION			E	LECTRICAL			
				SUPPLY			TEMPERATURE			OUTSIDE	OUTSIDE			TOTAL	SENSIBLE				]	1
				AIRFLOW	ESP	FUEL	RISE	INPUT	OUTPUT	AIR DB	AIR WB	LEAVING DB	LEAVING WB	CAPCITY	CAPACITY	<b>POWER</b>			WEIGHT	1
TAG	MANUFACTURER	MODEL	SERVICE	(CFM)	(IN.WG)	TYPE	(DEG.F)	(MBH)	(MBH)	(DEG F)	(DEG F)	(DEG F)	(DEG F)	(MBH)	(MBH)	(HP)	VOLTAGE	PHASE	(LBS)	NOTES
MUA-1	CaptiveAire	CASRTU1-I.150-13-6T	FAMILY & CONSUMER SCIENCES 101	1150	0.5	PROPANE	77	134.864	109.24	90	73	50	50	79.9	48.2	1	208	3	1369	1
MUA-2	CaptiveAire	CASRTU1-I.150-13-6T	FAMILY & CONSUMER SCIENCES 101	1150	0.5	PROPANE	77	134.864	109.24	90	73	50	50	79.9	48.2	1	208	3	1369	

	FAN SCHEDULE												
										ELECT	RICAL	_	
				AIR FLOW	ESP				POWER				
TAG	MANUFACTURER	MODEL	SERVICE	(CFM)	(IN.WG)	RPM	SONES	DRIVE	(HP)	VOLTAGE	PHASE	FLA	NOTES
EF-1	CaptiveAire	DU85HFA	FAMILY & CONSUMER SCIENCES 101	1224	0.75	1051	6.9	DIRECT	0.75	115	1	9 A	
EF-2	CaptiveAire	DU85HFA	FAMILY & CONSUMER SCIENCES 101	1224	0.75	1051	6.9	DIRECT	0.75	115	1	9 A	

	KITCHEN HOOD SCHEDULE											
				DIMENSIONS		<b>EXHAUST</b>		MOUNTING		LIGHTS	DAMPER	
				(WxHxD)	COLLAR	AIR FLOW	APD	HEIGHT AFF		(QTY)	AT HOOD	
TAG	MANUFACTURER	MODEL	SERVICE	(IN)	(QTY)	(CFM)	(IN.WG)	(IN)	MATERIAL	TYPE	COLLAR	NOTES
H-1	CaptiveAire	4224 ND-2	FAMILY & CONSUMER SCIENCES 101	42 X 24 X 54	1	612	0.328	80	304 SS	1	YES	
H-2	CaptiveAire	4224 ND-2	FAMILY & CONSUMER SCIENCES 101	42 X 24 X 54	1	612	0.328	80	304 SS	1	YES	
H-3	CaptiveAire	4224 ND-2	FAMILY & CONSUMER SCIENCES 101	42 X 24 X 54	1	612	0.328	80	304 SS	1	YES	·
H-4	CaptiveAire	4224 ND-2	FAMILY & CONSUMER SCIENCES 101	42 X 24 X 54	1	612	0.328	80	304 SS	1	YES	

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0" 1"

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JANUARY 30, 2024

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Drawn by: MSJ

SCHEDULES

M60-1

### **GENERAL ELECTRICAL NOTES**

- A. ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.
- B. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS
- C. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS
- D. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
- E. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.
- F. CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON DRAWINGS.
- G. TV OUTLETS, VOLUME CONTROLS, TELEPHONE OUTLETS, DATA OUTLETS, SHALL INCLUDE A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, SEE STUB UP DETAIL. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.
- H. FURNISH AND INSTALL CONDUIT FROM BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE:
  - 3/4"C TV OUTLETS
    3/4"C VOLUME CONTROLS
    3/4"C TELEPHONE OUTLETS
- I. ALL BRANCH WIRING SHALL BE MINIMUM #12 AWG COPPER IN EMT CONDUIT. FOR 120V-20A CIRCUITS, WIRE SIZE SHALL INCREASE TO #10 AWG FOR CIRCUITS OVER 120 FEET ONE WAY AND TO #8 AWG FOR CIRCUITS OVER 180 FEET ONE WAY. FOR 277V-20A CIRCUITS, WIRE SIZE SHALL INCREASE TO #10 AWG FOR CIRCUITS OVER 270 FEET ONE

INFORMATION OUTLETS FIRE ALARM DEVICES

### SPECIFIC CODE NOTES

#### FIRE PROTECTION REQUIREMENTS

- A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
- FIRESTOPPED WITH AN APPROVED MATERIAL.

  1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE
- OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
- 3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
- B. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.
- C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

			E	LECTRIC	AL ABBREVIATIONS	LIST			
AHU AIC AL ALT AMP AMPL	1 POLE (2P, 3P, 4P, ETC.) AMPERE ABOVE COUNTER OR AIR CONDITIONER AMP FRAME ABOVE FINISHED FLOOR ABOVE FINISHED GRADE I ARC FAULT CIRCUIT INTERRUPTER AIR HANDLING UNIT AMPERE INTERRUPTING CAPACITY ALUMINUM ALTERNATE AMPERE AMPLIFIER NUNCIATOR ARCHITECT, ARCHITECTURAL AMP TRIP AUTOMATIC TRANSFER SWITCH AUTOMATIC AUXILIARY AUDIO VISUAL AMERICAN WIRE GAUGE BATTERY BUILDING BUILDING MANAGEMENT SYSTEM CONDUIT CABINET CATALOG COMMUNITY ANTENNA TELEVISION CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CIRCUIT CEILING COMBINATION CONTINUATION OR CONTINUOUS CIRCULATING PUMP CATHODE-RAY TUBE CURRENT TRANSFORMER CENTER COPPER DECIBEL	DC DCP DEPT DIA DISC DIST DIA DISC DIST DIA DISC DIST DIA DISC EGC ELEV EM EMS EMT EQUIP EVIST/EX EXH FAPS FACP FCU FC FIXT FLA FLU FT GALV GC GEN GFI/P GRS GRS GFI/P GRS	DIRECT CURRENT DOMESTIC WATER CIRCULATING PUMP DEPARTMENT DETAIL DIAMETER DISCONNECT DISTRIBUTION DOWN DOUBLE THROW DRAWING ELECTRICAL CONTRACTOR ELECTRICAL GROUNDING CONDUCTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ENERGY MANAGEMENT SYSTEM ELECTRIC VEHICLE ELECTRIC WATER COOLER EXISTING EXHAUST FIRE ALARM FIRE ALARM PANEL, SUPERVISORY. FIRE ALARM CONTROL PANEL FAN COIL UNIT FOOT CANDLE FIXTURE FULL LOAD AMPS FLOOR FUSE FOOT GAUGE GALLON GALVANIZED GENERAL CONTRACTOR GROUND FAULT CIRCUIT INTERRUPTER GROUND GALVANIZED RIGID STEEL (CONDUIT)	GYP BD HDPG HOA HP HT HTG HTR HVAC HWP IC IG IMC IR IT I/W JB KCMIL KVA KVAR KWH LTG LV MCB MCC MDP MFR MI	GYPSUM BOARD HIGH DENSITY POLYETHYLENE HANDS-OFF-AUTOMATIC SWITCH HORSEPOWER HEIGHT HEATING HEATER HIGH VOLTAGE HEATING, VENTILATING AND AIR CONDITIONING HYDRONIC WATER PUMP INTERRUPTING CAPACITY ISOLATED GROUND INTERMEDIATE METAL CONDUIT INFRARED INFORMATION TECHNOLOGY INTERLOCK WITH JUNCTION BOX ONE THOUSAND CIRCULAR MILS KILOVOLT-AMPERE KILOVOLT-AMPERE REACTIVE KILOWATT KILOWATT KILOWATT KILOWATTHOUR LIGHTING LOW VOLTAGE MAXIMUM MECHANICAL CONTRACTOR MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MANUFACTURER MANUFACTURER MANHOLE MINERAL INSULATED MICROPHONE MINIMUM MISCELLANEOUS MAIN LUGS ONLY MAXIMUM OVER CURRENT PROTECTION MAIN SWITCHBOARD MOUNT EMPTY CONDUIT MANUAL TRANSFER SWITCH	MTR. NECMA NIC. OS NIC. NIC. NIC. NIC. NIC. NIC. NIC. NIC.	MOTOR, MOTORIZED NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICA MANUFACTURER'S ASSOCIATION NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN NOT TO SCALE OVERHEAD OVERLOADS PUBLIC ADDRESS PULL BOX OR PUSHBUTTON POWER FACTOR PHASE PANEL PAIR PRIMARY POWER ROOF VENTILATOR POTENTIAL TRANSFORMER POLYVINYL CHLORIDE (CONDUIT) POWER QUANTITY RECEPTACLE REQUIRED ROOM RIGID STEEL CONDUIT SUFFACE CONDUIT SUFFACE CONDUIT SECONDARY SHEET SIMILAR SPECIFICATION SPEAKER SPARE SURGE PROTECTION DEVICE STAINLESS STEEL STOP/START PUSHBUTTONS STATION STANDARD SWITCH SWITCHBOARD	SYM SYS TEL TR-STTVSP UEGHLSBUTTV UV V V V V V V V V V V V V V V V V V V	SYMMETRICAL SYSTEM TELEPHONE TWIST LOCK TAMPER RESISTANT THERMOSTAT TELEVISION TRANSIENT VOLT SURGE SUPRESSOR TYPICAL UNDER COUNTER UNDERGROUND ELECTRICAL UNDERGROUND UNIT HEATER UNDERWRITERS LABORATORY UNINTERRUPTIBLE POWER SUPPLY UNIVERSAL SERIAL BUS UNDERGROUND TELEPHONE UTILITY ULTRAVIOLET VOLT VOLT-AMPERES VERTICAL VARIABLE FREQUENCY DRIVE VOLUME WATT WITH WIRE GUARD WATER HEATER WITHOUT WEATHERPROOF TRANSFORMER EXPLOSION PROOF ANGLE AT DELTA WYE FEET INCHES NUMBER PHASE CENTER LINE PLATE

**ELECTRICAL SYMBOL LEGEND** 

		ELECTRICA			
HEIGHT	SYMBOL	DESCRIPTION	HEIGHT	SYMBOL	DESCRIPTION
<u>AFF</u>		CIRCUIT HOMERUN TO PANELBOARD	<u>AFF</u>		
	1 1,0	CIRCUIT NUMBER(S)		HD	HAND DRYER ELECTRICAL POWER CONNECTION.
		— PANELBOARD NAME		B	BELL - 24VAC - MOUNT AT 7'-6" AFF. EDWARDS NO. 340-465 WITH ELEC PWR XFMR,120VAC PRI, 24VAC SEC, NO. 88-100.
				VFD	VARIABLE FREQUENCY DRIVE
		WIRING CONCEALED IN WALL OR CEILING		<del></del>	
		WIRING IN RACEWAY CONCEALED UNDER FLOOR / UNDERGROUND		СР	CONTROL PANEL - TYPE AS NOTED ON DRAWINGS.
		CABLE TRAY WITH FITTINGS AS SHOWN (TYPE AS DENOTED)		TVSS	TRANSIENT VOLTAGE SURGE SUPRESSOR DEVICE.
		SURFACE MOUNTED RACEWAY.		J	JUNCTION BOX (WALL MOUNTED)
48"	т	SINGLE POLE SWITCH. WHERE SHOWN SERVING EQUIPMENT, LOCATE ABOVE ACCESSIBLE CEILING DIRECTLY ABOVE EQUI	•	0	JUNCTION BOX (CEILING OR FLOOR MOUNTED, AS NOTED)
48"	Ψ	SINGLE POLE SWITCH - MOMENTARY STYLE. MOUNT C/L UP 46" UNLESS OTHERWISE NOTED.		СВ	ENCLOSED CIRCUIT BREAKER
48"	\$ <sup>P</sup>	SINGLE POLE SWITCH - PILOT LIGHT. MOUNT C/L UP 46" UNLESS OTHERWISE NOTED.		М	UTILITY METER. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY COMPANY.
48"	\$ <sup>K</sup>	SINGLE POLE SWITCH - KEY OPERATED. MOUNT C/L UP 46" UNLESS OTHERWISE NOTED.			DISTRIBUTION PANELBOARD - 208/120V (SEE PANEL SCHEDULES FOR DETAILS)
48"	\$ <sup>D</sup>	0-10V DIMMER SWITCH. MOUNT C/L UP 46" UNLESS OTHERWISE NOTED.			DISTRIBUTION PANELBOARD - 480/277V (SEE PANEL SCHEDULES FOR DETAILS)
48"	\$ <sup>3</sup>	3-WAY SWITCH. MOUNT C/L UP 46" UNLESS OTHERWISE NOTED.		(HP)	MOTOR - HORSE POWER AND EQUIPMENT SERVED AS NOTED ON PLANS
48"	\$ <sup>4</sup>	4-WAY SWITCH. MOUNT C/L UP 46" UNLESS OTHERWISE NOTED.		T Å	EMERGENCY SHUTDOWN PUSHBUTTON
48"	<u> </u>	WALL OCCUPANCY SENSOR AND SWITCH COMBO. MOUNT C/L UP 46" UNLESS OTHERWISE NOTED.		(AIM)	FIRE ALARM INTERFACE MODULE (ADDRESSABLE INPUT MODULE)
48"	<u> </u>	LIGHTING CONTROL WALL STATION. MOUNT C/L UP 46" UNLESS OTHERWISE NOTED.	48"	(AOM)	FIRE ALARM INTERFACE MODULE (ADDRESSABLE OUTPUT MODULE)
		3-WAY LIGHTING CONTROL WALL STATION, MOUNT C/L UP 46" UNLESS OTHERWISE NOTED.		FACP	
48"			48"		FIRE ALARM CONTROL PANEL
48"	^	4-WAY LIGHTING CONTROL WALL STATION. MOUNT C/L UP 46" UNLESS OTHERWISE NOTED.		FANN	FIRE ALARM REMOTE ANNUNCIATOR
		CEILING OCCUPANCY SENSOR AND POWER PACK. PROVIDE NUMBER OF POWER PACKS REQUIRED		F	FIRE ALARM PULL STATION
		TO ALLOW FOR NUMBER OF OCCUPANCY SENSORS AND SWITCHING SHOWN	48"	A	FIRE ALARM ANSUL PULL STATION
	<b>♦</b> \$	DAYLIGHT HARVESTING SENSOR - CEILING MOUNTED.	94"	⊠K√	FIRE ALARM SPEAKER STROBE (CANDELA POWER PER NFPA 72; 15/75 WHERE NOT OTHERWISE INDICATED)
	BATT	EXTERNAL LIGHTING BATTERY / INVERTER UNIT. CEILING OR WALL MOUNTED - SEE DRAWINGS.	94"		FIRE ALARM HORN STROBE (CANDELA POWER PER NFPA 72; 15/75 WHERE NOT OTHERWISE INDICATED)
	LC	LIGHTING ZONE CONTROLLER. MOUNTED ABOVE ACCESSIBLE CEILING.	94"	Ø	FIRE ALARM STROBE (CANDELA POWER PER NFPA 72; 15/75 WHERE NOT OTHERWISE INDICATED)
	LV-XX	LIGHTING CONTROL RELAY PANEL.	94"	E⋈	FIRE ALARM HORN
	тс	TIME CLOCK LIGHTING CONTROL UNIT.		<u></u>	FIRE ALARM SPEAKER
		EXIT SIGN WITH ARROWS AS INDICATED AND HATCH INDICATING FACE - CEILING MOUNTED		RT	FIRE ALARM REMOTE TEST STATION
	<u>+⊗</u> ‡	EXIT SIGN WITH ARROWS AS INDICATED AND HATCH INDICATING FACE - WALL MOUNTED C/L UP 18 " ABOVE DOOR		DH	DOOR HOLDER
		LIGHTING FIXTURE W/ EMERGENCY BACKUP (TYP ALL TYPES)		<b>₽</b>	
				(\$)	FIRE ALARM SYSTEM FLOW SWITCH
		SURFACE LIGHTING FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.		<u> </u>	FIRE ALARM SYSTEM TAMPER SWITCH
		PENDANT LIGHTING FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.		<b>®</b> √∞	FIRE ALARM SPEAKER STROBE - CEILING MOUNTED (CANDELA POWER PER NFPA 72; 15/75 WHERE NOT INDICATED)
		STRIP LIGHTING FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.		<b>◎</b> ✓	FIRE ALARM HORN STROBE - CEILING MOUNTED (CANDELA POWER PER NFPA 72; 15/75 WHERE NOT INDICATED)
		1 x 4 RECESSED LIGHTING FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.		(S)	FIRE ALARM STROBE - CEILING MOUNTED (CANDELA POWER PER NFPA 72; 15/75 WHERE NOT INDICATED)
		2 x 4 RECESSED LIGHTING FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.		GD	FIRE ALARM SYSTEM GAS DETECTOR (CEILING)
	0	2 x 2 RECESSED LIGHTING FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.			FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR (CEILING)
S NOTED	Ю	WALL PACK LIGHTING FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.		(H)	FIRE ALARM SYSTEM HEAT DETECTOR (CEILING)
S NOTED	Ω	SCONCE LIGHTING FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.		(2)	FIRE ALARM SYSTEM SMOKE DETECTOR (CEILING)
90"		EMERGENCY BATTERY PACK LIGHTING FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.			FIRE ALARM SYSTEM SMOKE DETECTOR (DUCT)
90"		EMERGENCY BATTERY REMOTE HEAD(S) - SINGLE OR DOUBLE AS SHOWN.		S	SPEAKER - CEILING MOUNTED
		EMERGENCY BATTERY PACK LIGHTING FIXTURE - CEILING MOUNTED.		<u>+</u> ⊚	
		RECESSED DOWNLIGHT FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.		10	SPEAKER - WALL MOUNTED
					CLOCK - WALL MOUNTED
	$\bigcirc$	SITE LIGHTING POLE FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.		И	VOICE AND DATA OUTLET. MOUNT AT MATCHING HEIGHT AS RECEPTACLE UNLESS OTHERWISE NOTED
24"	Ψ	STANDARD DUPLEX RECEPTACLE, WALL MOUNTED UNLESS NOTED WITH "C" FOR CEILING MOUNTING.		M AC	VOICE AND DATA OUTLET - ABOVE COUNTER.
24"		DUPLEX RECEPTACLE WITH USB.		Иw	WALL PHONE OUTLET. COORDINATE MOUNTING HEIGHT WITH PHONE UNIT
		STANDARD DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER.		ИР	PAGING SYSTEM OUTLET. COORDINATE MOUNTING HEIGHT WITH PAGING UNIT
	<b>₽</b> AC	GFCI DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER.		M	AV OUTLET - MOUNTING HEIGHT AS NOTED ON PLANS
24"	· ·	GFCI DUPLEX RECEPTACLE		V	DATA FLOOR BOX
24"	Ф	ISOLATED GROUND DUPLEX RECEPTACLE.		Ψ	SYSTEMS JUNCTION BOX - WALL
24"	<b>(</b>	CONTROLLED RECEPTACLE.			
24"		WEATHER PROOF DUPLEX RECEPTACLE.			
24"	₩	STANDARD DOUBLE DUPLEX RECEPTACLE			
24"		DOUBLE DUPLEX RECEPTACLE WITH USB			
24					
		STANDARD DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER.			
	<u>U</u>	GFCI DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER.			
24"		GFCI DOUBLE DUPLEX RECEPTACLE			
24"	<b>₽</b>	ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE.			
24"	<b>*</b>	DOUBLE DUPLEX CONTROLLED RECEPTACLE			
24"	₩P	WEATHER PROOF GFCI DOUBLE DUPLEX RECEPTACLE WITH CLEAR IN-USE COVER.			
24"	Φ	STANDARD SIMPLEX RECEPTACLE.			
24"	Ø EWC	STANDARD SIMPLEX RECEPTACLE SERVING WATER COOLER.			
NOTED	$\Diamond$	SPECIAL RECEPTACLE - COORDINATE NEMA CONFIG. AND MTG HEIGHT WITH EQUIP UNLESS OTHERWISE NOTED.			
5	<u>I</u>	FLOOR RECEPTACLE. (DUPLEX SHOWN)			
	_	CEILING RECEPTACLE. (DUPLEX SHOWN)			
				+	
		SAFETY DISCONNECT SWITCH (FUSED) - COORDINATE FUSES WITH EQUIPMENT FURNISHED.			
		SAFETY DISCONNECT SWITCH (NON-FUSED)			
		MOTOR RATED SWITCH WITH TIMER, 0-60 MIN RANGE. VOLTAGE/AMPS AS REQUIRED FOR APPLICATION.			
	Ψ	MOTOR RATED SWITCH WITH THERMAL OVERLOAD PROTECTION. VOLTAGE/AMPS AS REQUIRED FOR APPLICATION.			
	R	REFRIGERATION SYSTEM CASE / COOLER RELAY.			
		BUZZER - 24VAC - MOUNT AT 7'-6" AFF. GRANGER #3ZR09 WITH ELEC PWR XFMR, 120VAC PRI, 24VAC SEC, #4X743.			

### Harriman

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

22328

YORK, MA

Harriman Project No.

Graphic Scale	
0" 1" (scale measures 1" when plotted at full size)	
CHELS HAD NO. 1	

### CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date Revision Description

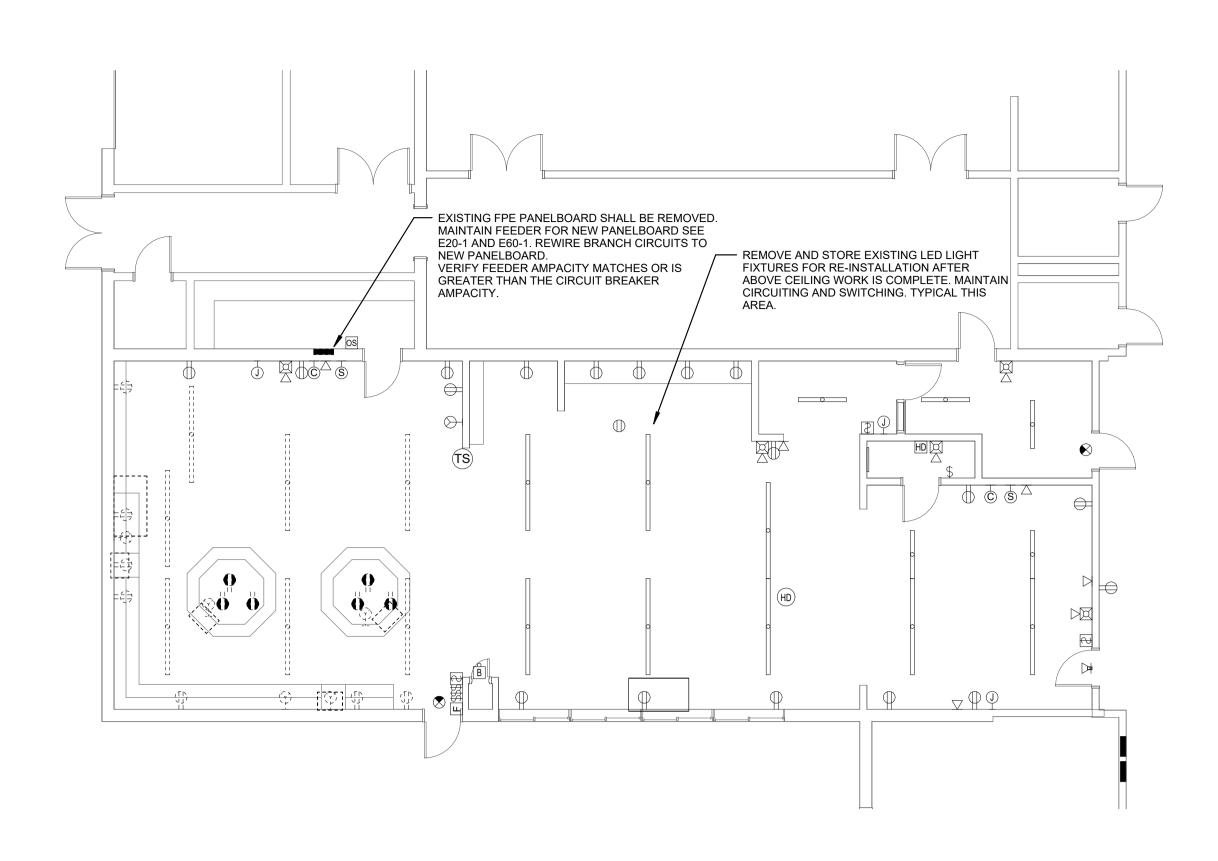
Drawn by: PRA

ELECTRICAL SYMBOLS AND ABBREVIATIONS

E00-1

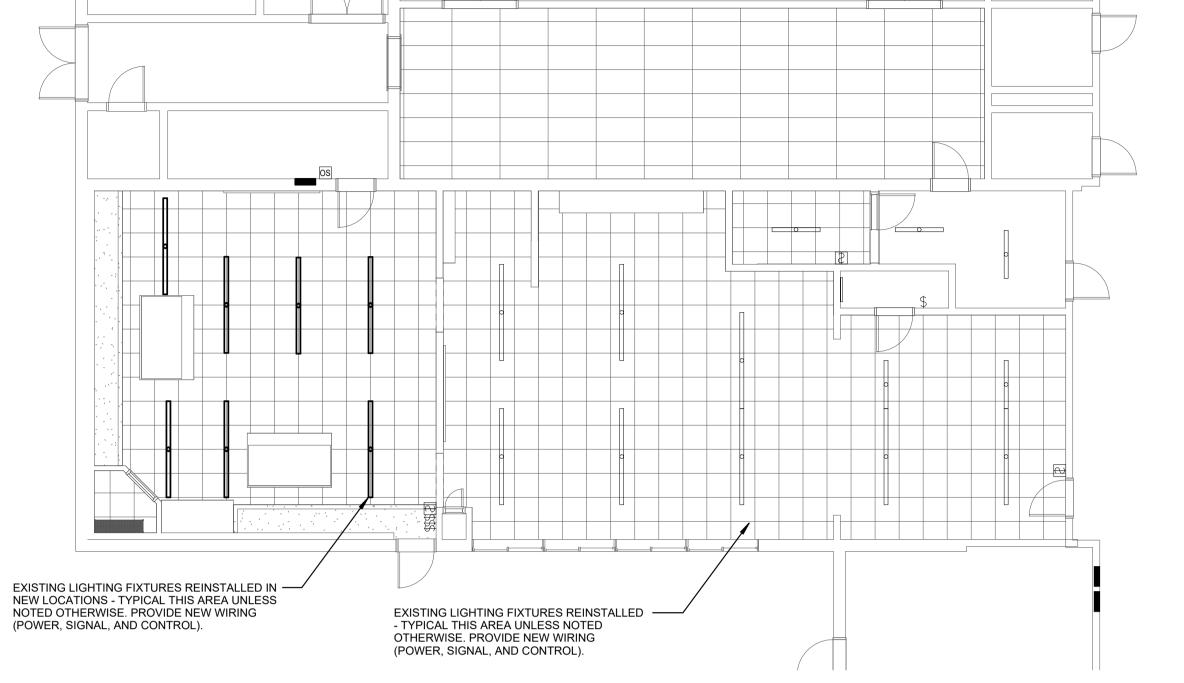
	ELECTRICAL SYMBOL NOTES
	THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.
A 	EXAMPLE 1: LIGHTING FIXTURE TYPE "A" IS CONNECTED TO CIRCUIT 12 AND CONTROLLED BY SWITCH "b".
* <u>P2D/l</u> * 2aba	EXAMPLE 2: THE FIXTURE TYPE SHOWN AS A NUMERATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE THE SAME TYPE. THE CIRCUIT NUMBER AND SWITCH DESIGNATION SHOWN AS A DENOMINATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE CONNECTED TO THE SAME CIRCUIT, CONTROLLED BY THE SAME SWITCHES, CENTER/OUTBOARD MULTILEVEL SWITCHING.
<b>∤⊗</b> ∱ E 14	EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 14.
<b>16</b> c	DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 16 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "c".
₩d	THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".
D600 <del>∵</del> e	WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: 600 WATT WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "e". SEE SPECIFICATIONS FOR WATTAGE IF NOT INDICATED.
<b>1</b> − <b>⊕</b> 1,3,5	SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. 1; 3 PHASE CONNECTION TO CIRCUITS 1, 3, 5.
SF-1 () 2,4,6	MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: MOTOR SF-1; 3 PHASE CONNECTION TO CIRCUITS 2, 4, 6.
7,9 H1	ELECTRIC HEATER CONNECTIONS. THE HEATER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "H". SEE THE HEATER SCHEDULE FOR ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE HEATER. EXAMPLE: ELECTRIC BASEBOARD HEATER TYPE "H1" CONNECTED TO CIRCUITS 7, 9.
T1	TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".
LPN-102	PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.
(P01)	SPECIAL NOTE. SEE THE SPECIAL NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE HEXIGON.
LPN-1,3,5	HOME RUN TO BRANCH CIRCUIT PANELBOARD. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD LPN; CIRCUITS 1, 3, 5.
⊕ <sup>LPN-1</sup>	DEVICE CIRCUIT DESIGNATION, TYPICAL ALL ELECTRICAL DEVICES. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: PANELBOARD LPN; CIRCUIT 1.
	LINEWEIGHT INDICATES EXISTING TO REMAIN.
	LINEWEIGHT INDICATES NEW WORK.

\_\_ \_ LINEWEIGHT INDICATES DEMOLISH.



FIRST FLOOR - ELECTRICAL DEMO

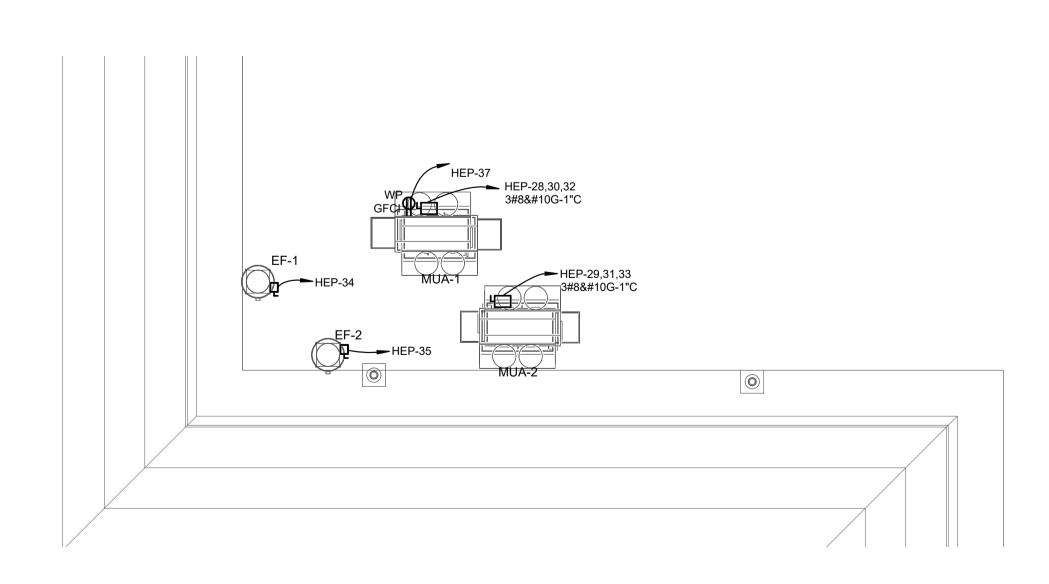
SCALE: 1/8" = 1'-0"

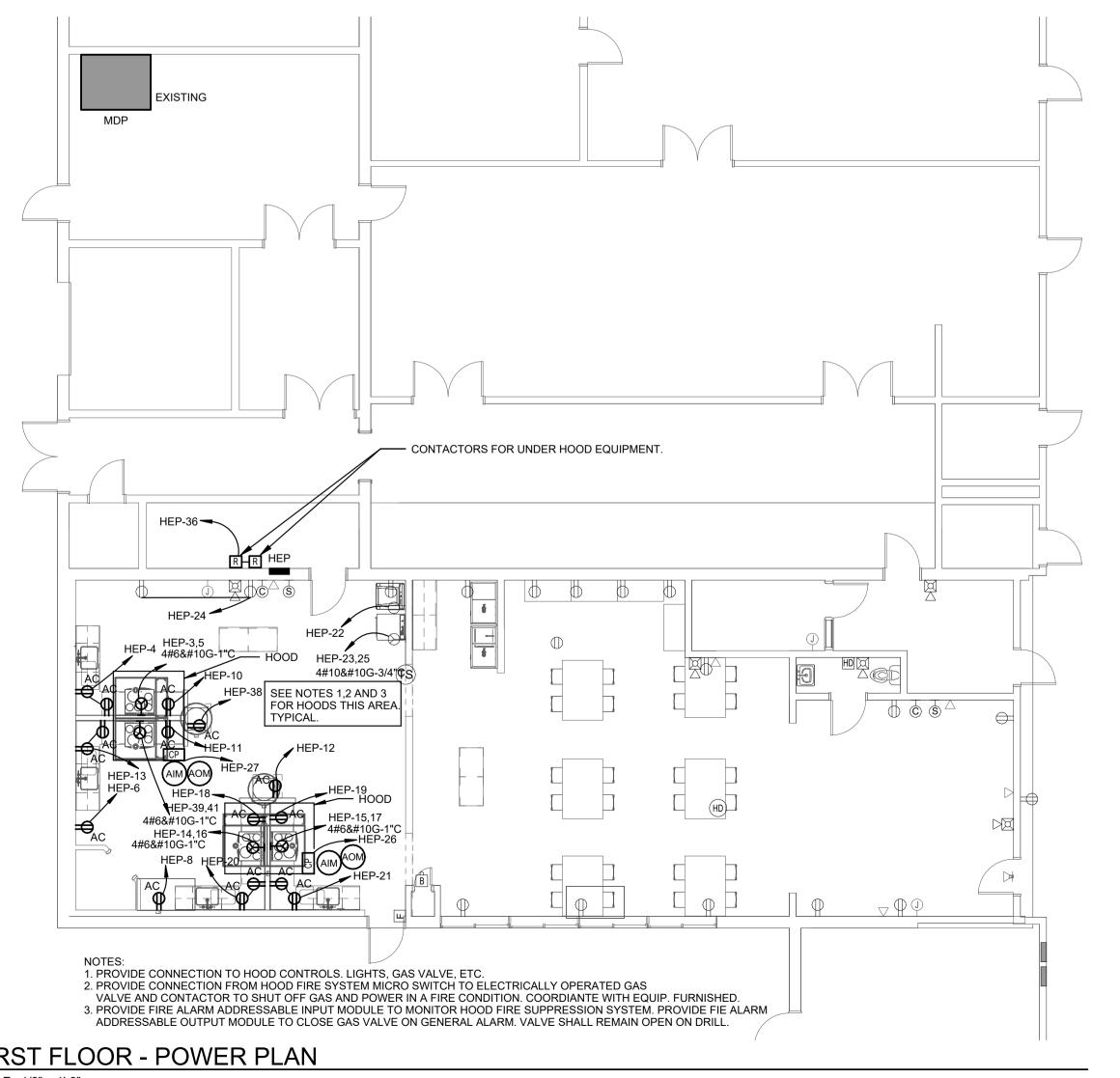


FIRST FLOOR - LIGHTING PLAN SCALE: 1/8" = 1'-0"

### **GENERAL NOTES**

- 1 WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- 2 MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED. THE SHARING OF NEUTRALS IS PROHIBITED.
- 3 CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
- 4 PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN. THE SHARING OF NEUTRALS IS PROHIBITED.
- 5 CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.





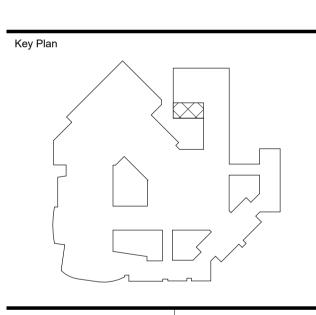
## Harriman

YORK HIGH SCHOOL FAMILY SCIENCES **CLASSROOM RENOVATION** 

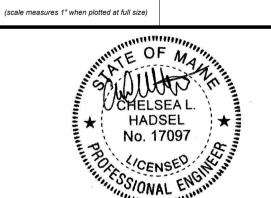
YORK, MAINE

Harriman Project No.

22328



Graphic Scale



### **CONSTRUCTION DOCUMENTS**

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: PRA

FIRST FLOOR PLAN

E10-1

ROOF - POWER PLAN

FIRST FLOOR - POWER PLAN

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No. 22328

Branch	Panel:	HEP

Location: SUPPLIES 102
Supply From: MDP
Mounting: Recessed
Enclosure: Type 1

Volts: 208Y/120 Phases: 3

Wires: 4

A.I.C. Rating: 22,000 Mains Type: MLO Mains Rating: 225 A

Notes: RECONNECT ALL EXISTING CIRCUITS UNLESS NOTED OTHERWISE.

CKT	Circuit Description	Trip	Poles	-	АВ		3	С		Poles	Trip	Circuit Description	СКТ
1	EXISTING FLOOR RCPT	20 A	1	0 VA	0 VA					1	20 A	EXISTING OUTSIDE RCPT	2
3	RANGE	50 A	2			4000	360 VA			1	20 A	RCPT	4
5								4000	180 VA	1	20 A	RCPT	6
7	EXISTING CIRCUIT	20 A	1	0 VA	180 VA					1	20 A	RCPT	8
9	EXISTING FAN ROOM 26	20 A	1			0 VA	180 VA			1	20 A	RCPT	10
11	RCPT	20 A	1					180 VA	180 VA	1	20 A	RCPT	12
13	RCPT	20 A	1	360 VA	4000					0	50 A	DANCE	14
15	RANGE	50 A	2			4000	4000			2	50 A	RANGE	16
17								4000	180 VA	1	20 A	RCPT	18
19	RCPT	20 A	1	180 VA	360 VA					1	20 A	RCPT	20
21	RCPT	20 A	1			360 VA	180 VA			1	20 A	RCPT	22
23	CLOTHES DRYER	30 A	2					2500	360 VA	1	20 A	RCPT	24
25				2500	0 VA					1	20 A	Other	26
27	Other	20 A	1			0 VA	0 VA						28
29	MUA-2	20 A	3					0 VA	0 VA	3	20 A	MUA-1	30
31				0 VA	0 VA								32
33						0 VA	0 VA			1	20 A	EF-1	34
35	EF-2	20 A	1					0 VA	0 VA	1	20 A	Other	36
37	RCPT	20 A	1	180 VA	180 VA					1	20 A	RCPT	38
39	RANGE	50 A				4000	0 VA			1	20 A	EXISTING CIRCUIT	40
41			2					4000	0 VA	1		EXISTING CIRCUIT	42
		al Load:	7821 VA		16979 VA		15479 VA		-				
		65 A 151 A			139 A								

Legen

ALL NEW OR MDIFIED CIRCUITS SHOWN IN BOLD.

Panel Totals

Total Conn. Load: 40271 VA
Total Est. Demand: 24291 VA
Total Conn.: 112 A
Total Est. Demand: 67 A

Notes:

ELECTRICAL SCHEDULES

CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Graphic Scale

(scale measures 1" when plotted at full size)

Revision Date Revision Description

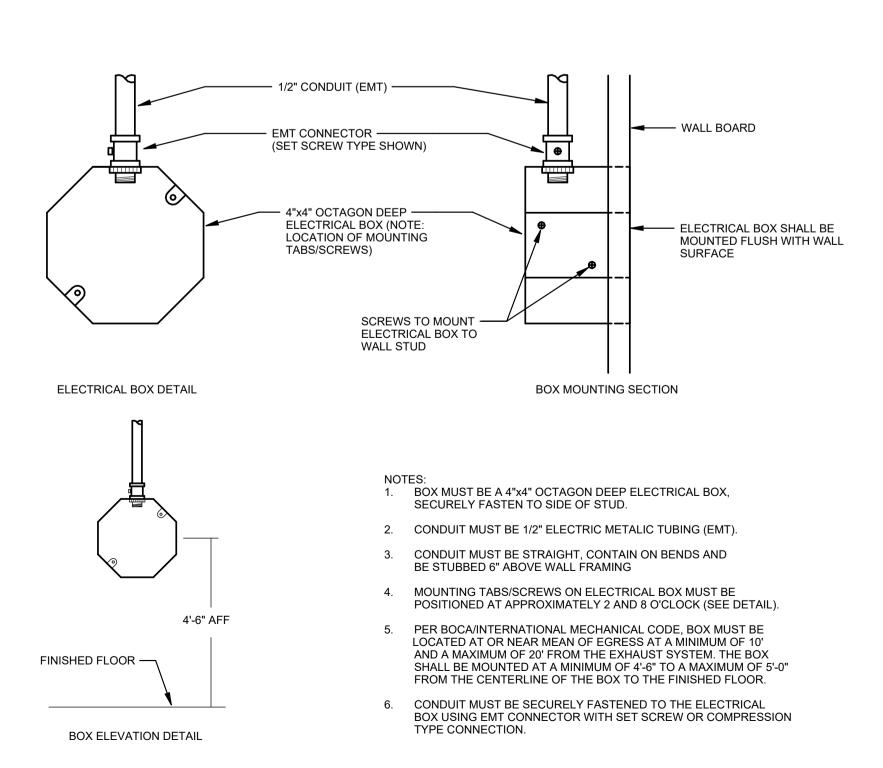
Drawn by: PRA

E60-

YORK HIGH SCHOOL FAMILY SCIENCES **CLASSROOM RENOVATION** 

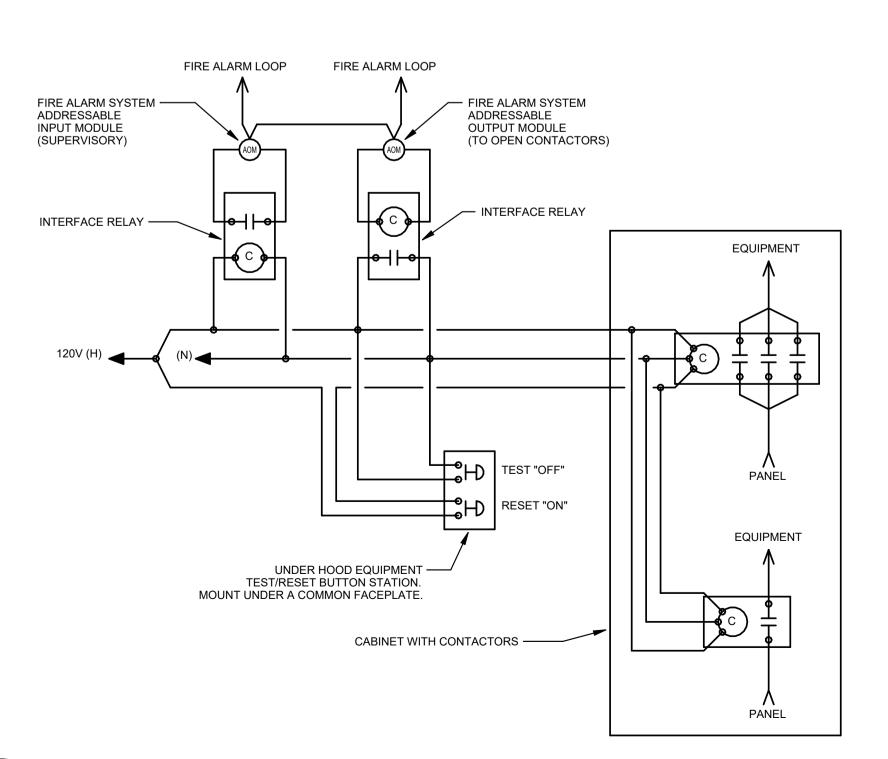
YORK, MAINE

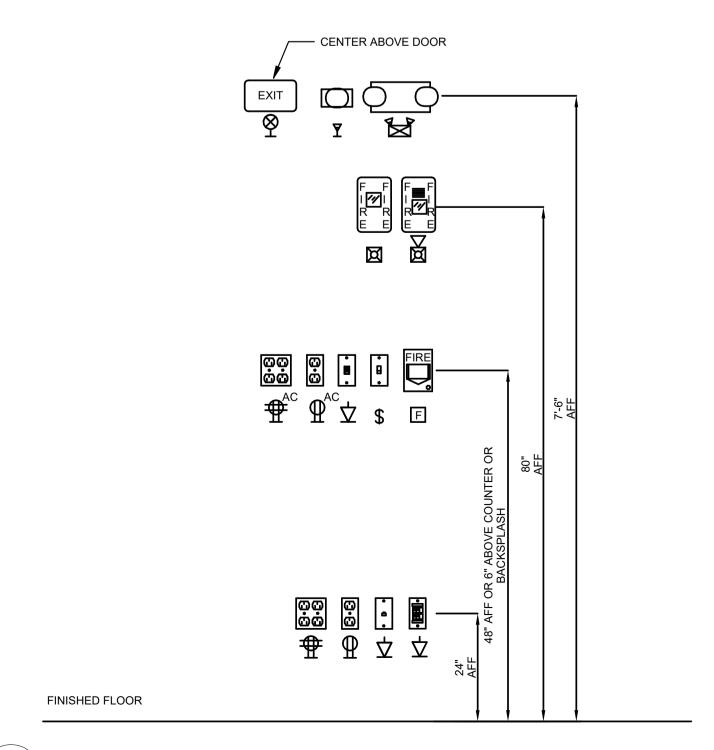
Harriman Project No. 22328

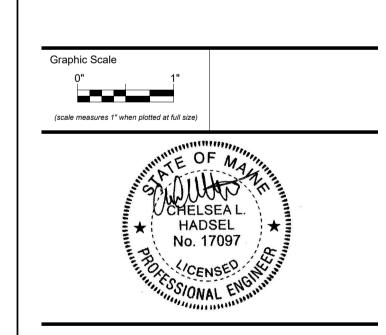


ANSUL SYSTEM MANUAL PULL BOX DETAIL

SCALE: 1 1/2" = 1'-0"







### **CONSTRUCTION DOCUMENTS**

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: PRA

**ELECTRICAL DETAILS** 

E70-1

A2 UNDER HOOD KITCHEN EQUIPMENT SHUTDOWN DETAIL

SCALE: 1 1/2" = 1'-0"

A3 TYPICAL INTERIOR MOUNTING HEIGHTS

SCALE: 1 1/2" = 1'-0"