

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

CONSTRUCTION DOCUMENTS
JANUARY 30, 2024

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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: DRE

COVER SHEET

G00-1

GENERAL NOTES:

- 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.
- CONTRACTOR SHALL REPORT ANY VARIATIONS FOUND AT THE SITE BEFORE PROCEEDING WITH THAT PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER ALL OF THE STRUCTURAL WORK 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 CONTRACTOR'S RESPONSIBILITY INCLUDING BUT NOT LIMITED TO SHORING, TEMPORARY BRACING, ETC.
- SECTIONS AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER.
- 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

- LIVE LOADS:**
ROOF LIVE LOAD = 20 PSF
ROOF FRAMING GOVERNED BY SNOW LOAD

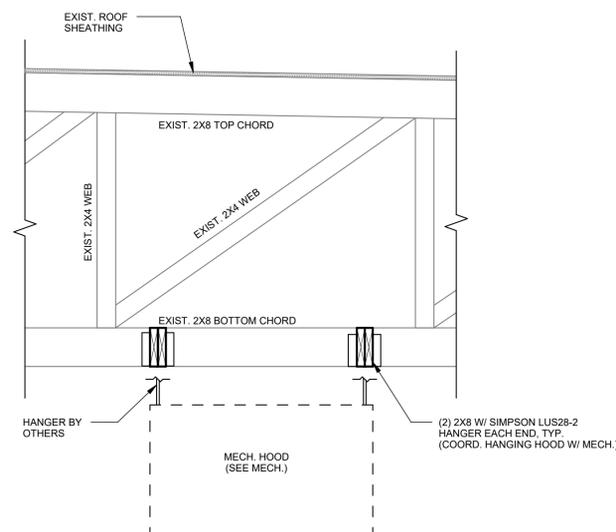
- SNOW LOAD:**
GROUND SNOW LOAD (P_g) = 50 PSF
EXPOSURE FACTOR (C_e) = 1.0
THERMAL FACTOR (C_t) = 1.0
IMPORTANCE FACTOR (I) = 1.1
FLAT ROOF SNOW LOAD (P_f) = 39 PSF + DRIFT LOADS
SNOW DRIFTS AND WIDTHS HAVE BEEN INCLUDED IN ACCORDANCE WITH ASCE 7-10 SECTION 7.7.

- WIND LOAD:**
NOT APPLICABLE

- SEISMIC LOAD:**
NOT APPLICABLE

WOOD FRAMING:

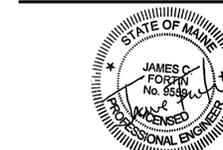
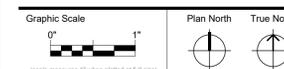
- ALL WOOD FRAMING SHALL CONFORM TO THE AF&PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) AND WOOD SHEATHING SHALL CONFORM TO THE AMERICAN PLYWOOD ASSOCIATION (APA).
- ALL WOOD MARKED SPF OR NOT MARKED ON THE DRAWINGS ARE TO HAVE THE FOLLOWING MINIMUM ALLOWABLE WORKING STRESSES:
F_v = 135 PSI HORIZONTAL SHEAR STRESS
F_b = 875 PSI BENDING STRESS SINGLE MEMBER USE
E = 1400000 PSI MODULUS OF ELASTICITY
F_c = 1150 PSI COMPRESSION PARALLEL TO GRAIN
F_c = 425 PSI COMPRESSION PERPENDICULAR TO GRAIN
- INDIVIDUAL WOOD FRAMING SHALL BE KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT UNLESS NOTED OTHERWISE ON DRAWINGS.
- 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.
- ALL FASTENING NOT SHOWN SHALL CONFORM WITH THE 2015 INTERNATIONAL BUILDING CODE TABLE 2304.10.1 FASTENING SCHEDULE.



B1 TYP. SECTION AT MECH. HOOD

SCALE: 3/4" = 1'-0"

Key Plan



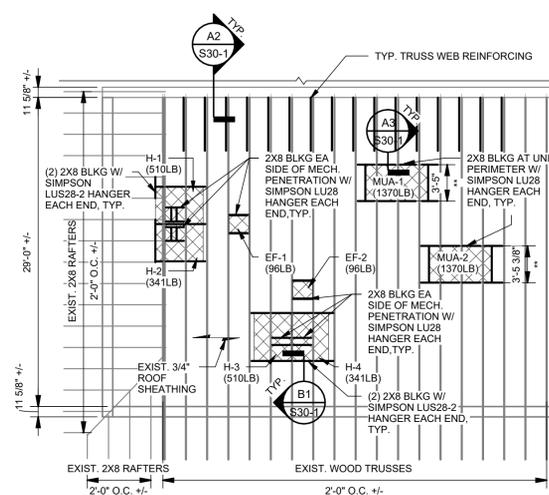
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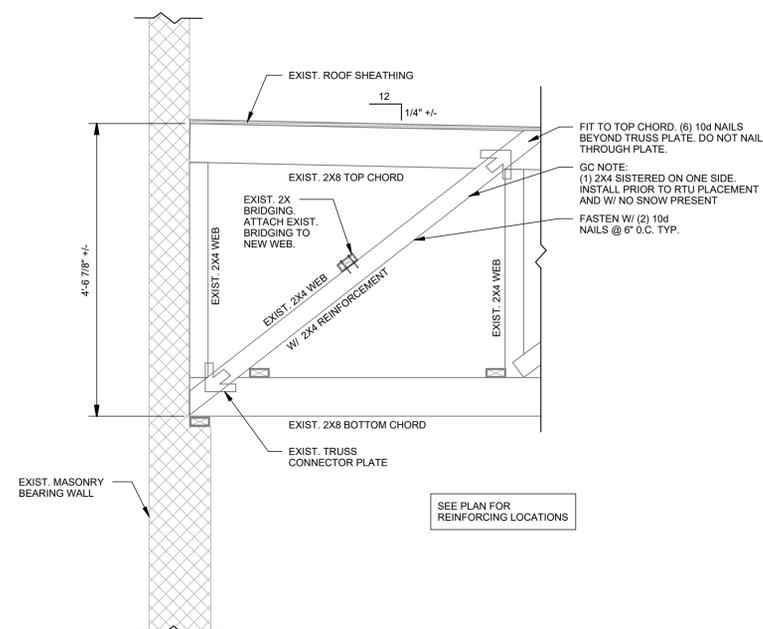
Drawn by: VMB

ROOF FRAMING PART PLAN, NOTES, AND DETAILS



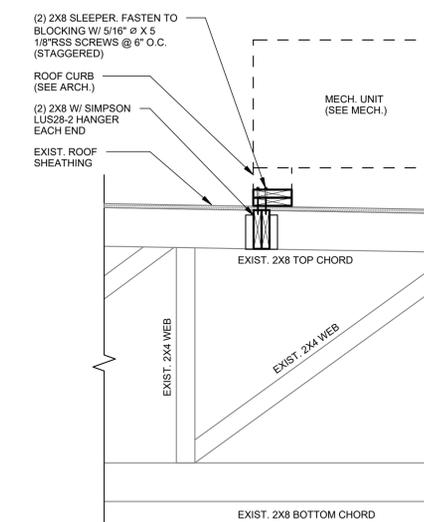
FRAMING PLAN NOTES:

- +/- 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. ALIGN SUPPORT FRAME WITH CENTER OF CURB.



A2 TYP. TRUSS WEB REINFORCING

SCALE: 3/4" = 1'-0"



A3 TYP. SECTION AT MECH. UNIT

SCALE: 3/4" = 1'-0"

A1 ROOF FRAMING PART PLAN

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

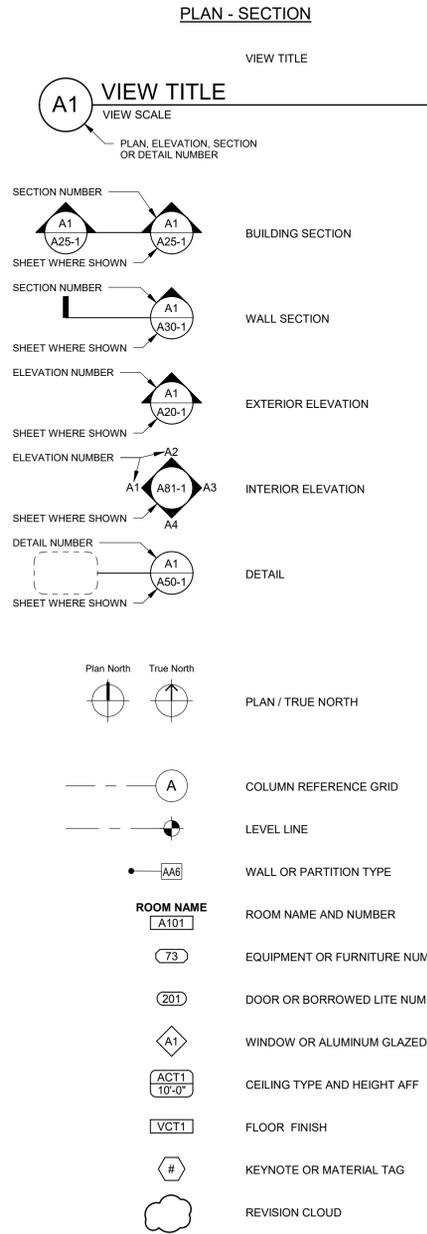
CONTRACT DRAWING ABBREVIATIONS

ABBRV	TERM	ABBRV	TERM
A/C	AIR CONDITIONING	HB	HOSE BIB
AB	ANCHOR BOLT	HD	HUB DRAIN
AC	ACOUSTICAL	HM	HOLLOW METAL
ACT	ACOUSTICAL TILE	HORIZ	HORIZONTAL
AD	ACCESS DOOR	HP	HIGH POINT
ADJ	ADJUSTABLE	HSS	HOLLOW STRUCTURAL SECTION
AFF	ABOVE FINISH FLOOR	HT	HEIGHT
AFG	ABOVE FINISH GRADE	HTG	HEATING
AL	ALUMINUM	HVAC	HEATING - VENTILATING - AIR CONDITIONING
ALT	ALTERNATE	HYD	HYDRANT
AP	ACCESS PANEL	ID	INSIDE DIAMETER
APX	APPROXIMATE	INS	INSULATE (D) (ION)
ARCH	ARCHITECT (URAL)	INT	INTERIOR
AVB	AIR VAPOR BARRIER	INV	INVERT
BD	BOARD	JC	JANITOR'S CLOSET
BIT	BITUMINOUS	JT	JOINT
BJ	BAR JOIST	KIT	KITCHEN
BLDG	BUILDING	LAB	LABORATORY
BLKG	BLOCKING	LAM	LAMINATE (D)
BM	BENCH MARK	LAV (L)	LAVATORY
BOD	BOTTOM OF DECK	LB (S)	POUNDS
BOT	BOTTOM	LD	LINEAR DIFFUSER
BP	BASE PLATE	LF	LINEAL FEET
BSMT	BASEMENT	LG	LONG
BTU	BRITISH THERMAL UNIT	LTG	LIGHTING
CAB	CABINET	LTL	LINTEL
CB	CATCHBASIN	LW	LIMIT OF WORK
CD	CEILING DIFFUSER	M	METER (S)
CEM	CEMENT (TIOUS)	MAS	MASONRY
CER	CERAMIC	MAT	MATERIAL
CF	CUBIC FEET	MAX	MAXIMUM
CG	CORNER GRILLE	MECH	MECHANICAL
CHBD	CHALKBOARD	MED	MEDIUM
CHT	CEILING HEIGHT	MET	METAL
CI	CONTINUOUS INSULATION	MFR	MANUFACTURE (R)
CJT	CONTROL JOINT	MH	MANHOLE
CL	CLOSET	MIN	MINIMUM
CLG	CEILING	MISC	MISCELLANEOUS
CMPST	COMPOSITE	MO	MASONRY OPENING
CMU	CONCRETE MASONRY UNIT	MR	MOP RECEPTOR
CO	CLEANOUT	MT	METAL THRESHOLD
COL	COLUMN	MTD	MOUNTED
CONC	CONCRETE	N	NORTH
CONN	CONNECT	NA	NOT APPLICABLE
CONST	CONSTRUCTION	NIC	NOT IN CONTRACT
CONT	CONTINUE (OUS)	No	NUMBER
CONTR	CONTRACT (OR)	NTS	NOT TO SCALE
CORR	CORRUGATED	OC	ON CENTER (S)
CPT	CARPET (ED)	OD	OUTSIDE DIAMETER
CT	CERAMIC TILE	OFF	OFFICE
CUH	CABINET UNIT HEATER	OH	OVERHEAD
CV	CONVECTOR	OPG	OPENING
CW	COLD WATER	OPH	OPPOSITE HAND
CY	CUBIC YARD	OPP	OPPOSITE
DF	DRINKING FOUNTAIN	P	PLATE
DG	DOOR GRILLE	PAR	PARALLEL
DH	DOUBLE HUNG	PERP	PERPENDICULAR
DIA	DIAMETER	PN	PREFINISHED
DIAG	DIAGONAL	PL	PROPERTY LINE
DIM	DIMENSION	PLAM	PLASTIC LAMINATE
DIV	DIVISION	PLUMB	PLUMBING
DN	DOWN	PNL	PANEL
DTL	DETAIL	PNT	PAINT (ED)
DWG	DRAWING	PT	PRESSURE TREATED
E	EAST	PTN	PARTITION
EB	EXPANSION BOLT	PVC	POLYVINYL CHLORIDE
EF	EXHAUST FAN	PWD	PLYWOOD
EIFS	EXTERIOR INSULATED FINISH SYSTEM	QT	QUARRY TILE
EJ	EXPANSION JOINT	R	RISER
EL	ELEVATION (S)	RAD	RADIUS
ELEC	ELECTRIC (AL)	RB	RUBBER BASE
EP	ELECTRIC PANEL	RD	ROOF DRAIN
EQ	EQUAL	REF	REFERENCE
ER	EXHAUST REGISTER	REFR	REFRIGERATOR
ES	EACH SIDE	REQ	REQUIRE (D)
EST	ESTIMATE	REV	REVISION (S)
EWC	ELECTRIC WATER COOLER	RL	ROOF LEADER
EXG	EXISTING	RM	ROOM
EXP	EXPANSION	RO	ROUGH OPENING
EXT	EXTERIOR	ROW	RIGHT OF WAY
FA	FIRE ALARM	S	SOUTH
FAI	FRESH AIR INTAKE	SAB	SOUND ATTENUATING BATTS
FC	FLEXIBLE CONNECTION	SD	STORM DRAIN
FCO	FLOOR CLEANOUT	SDMH	STORM DRAIN MANHOLE
FD	FLOOR DRAIN	SEC	SECTION
FDTN	FOUNDATION	SHT	SHEET
FE	FIRE EXTINGUISHER	SIM	SIMILAR
FEC	FIRE EXTINGUISHER CABINET	SK	SINK
FIN	FINISH (ED)	SMU	SOLID MASONRY UNIT
FLG	FLASHING	SPEC	SPECIFICATION (S)
FLR	FLOOR (ING)	SQ	SQUARE
FO	FACE OF	SS	STAINLESS STEEL
FOC	FACE OF CONCRETE	SSK	SERVICE SINK
FOS	FACE OF STUD	STD	STANDARD
FRP	FIBERGLASS REINFORCED PANEL	STL	STEEL
FTG	FOOTING	STOR	STORAGE
GA	GAGE, GAUGE	STRUC	STRUCTURAL
GALV	GALVANIZED	SYM	SYMMETRY (ICAL)
GB	GRAB BAR	SYS	SYSTEM
GC	GENERAL CONTRACT (OR)		
GL	GLASS		
GPDW	GYPSUM DRY WALL		

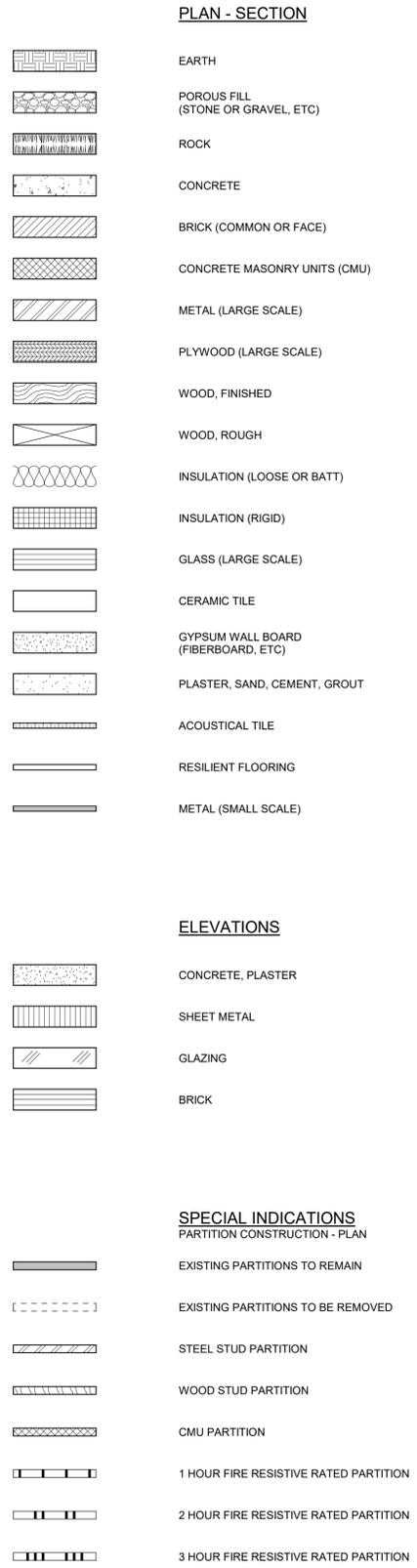
SYMBOLS USED AS ABBREVIATIONS

L	ANGLE
⊖	CENTERLINE
⊏	CHANNEL
∅	DIAMETER
⊞	PLATE
□	SQUARE

GRAPHIC SYMBOLS



MATERIAL INDICATIONS



Harriman

**YORK HIGH SCHOOL
FAMILY SCIENCES
CLASSROOM RENOVATION**

YORK, MAINE
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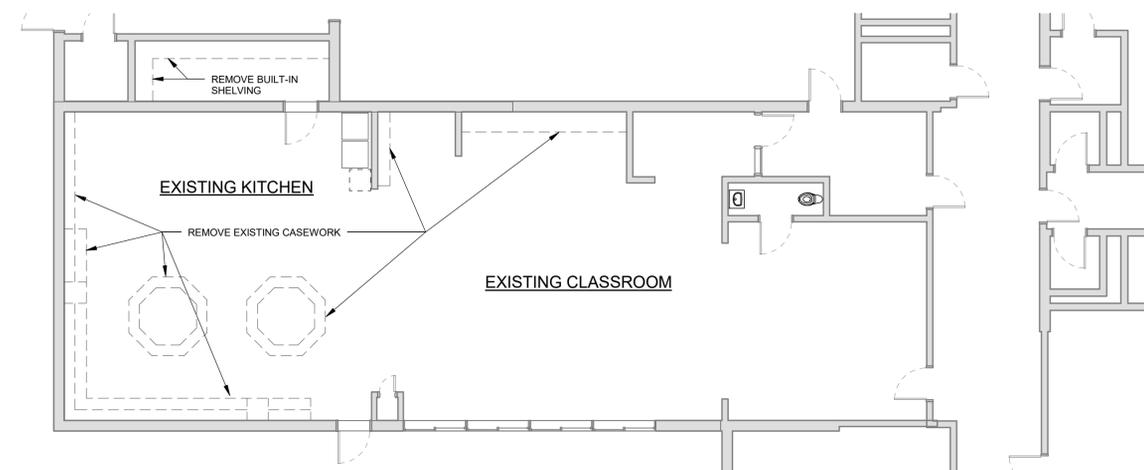
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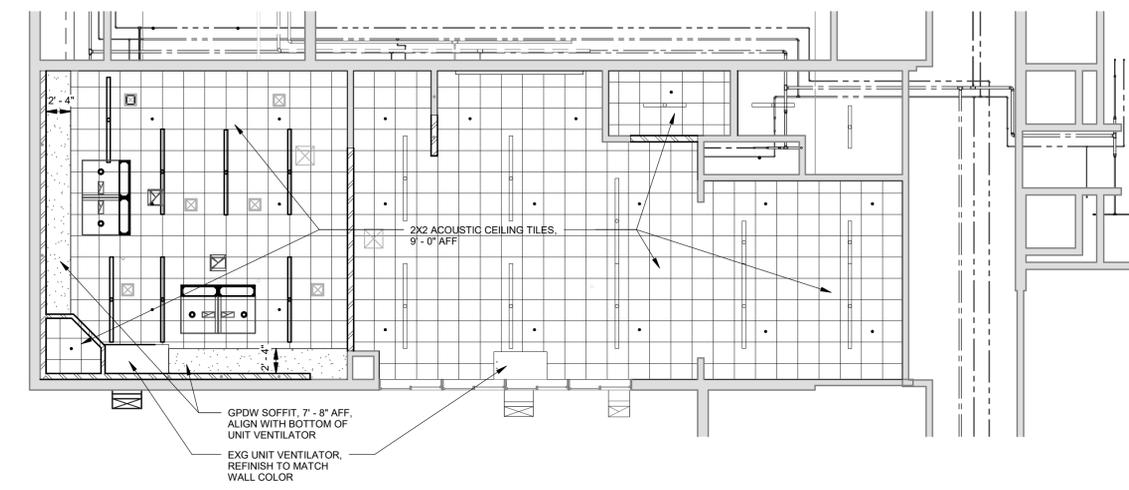
Drawn by: DRE

ABBREVIATIONS AND LEGENDS

A00-1

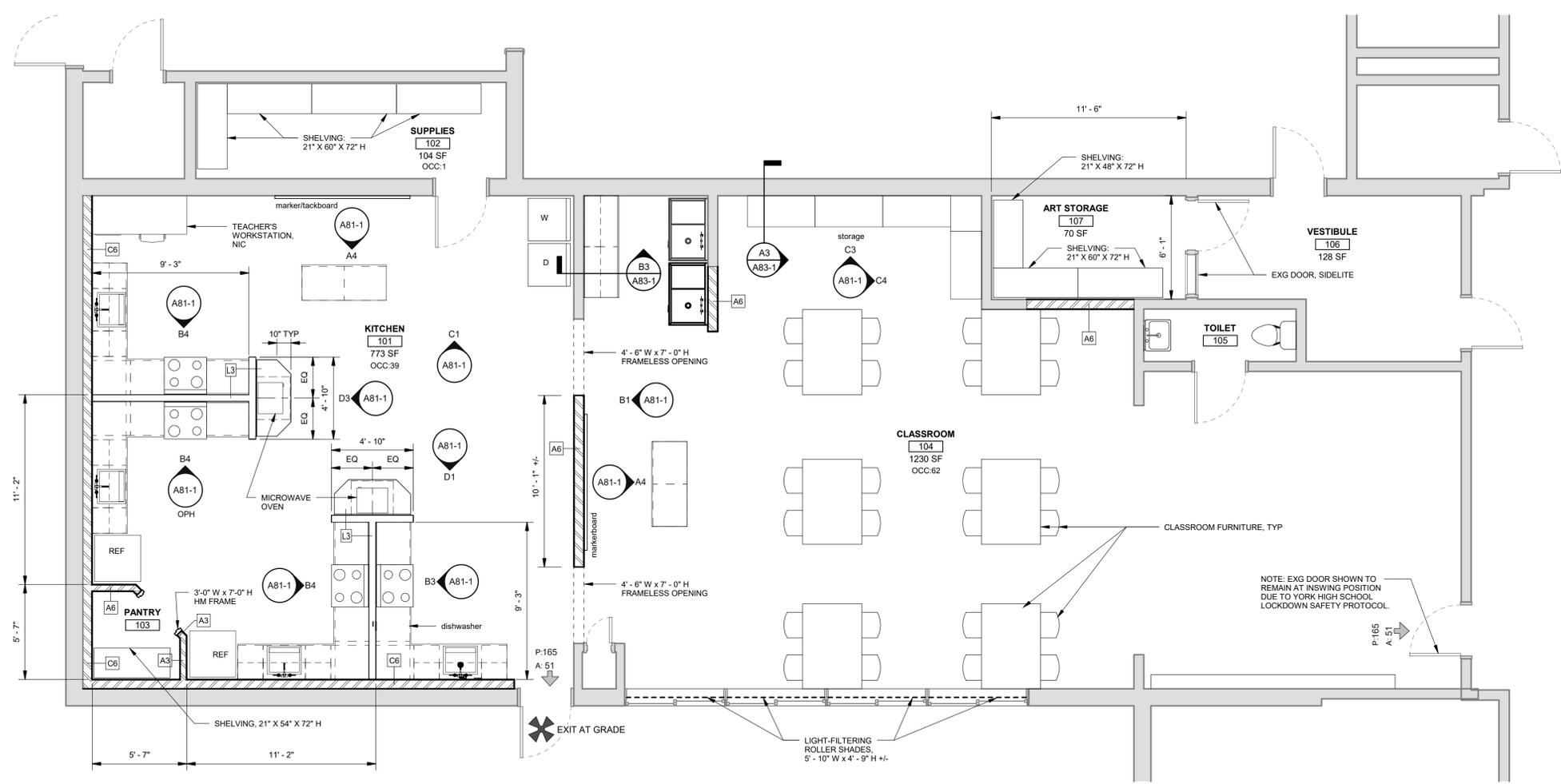


- DEMOLITION NOTES:
1. REMOVING EXG VCT COMPLETE, ROOMS 101, 102, 103, 104.
 2. REMOVE EXISTING CEILING TILES AND GRID COMPLETE, ROOMS 101, 102, 103, 104, 107.



C3 FIRST FLOOR CEILING PLAN
SCALE: 1/8" = 1'-0"

C1 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



- NOTES:**
1. HOLLOW METAL FRAME TO BE WELDED, 16-GAGE.
 2. APPLIANCES: DISHWASHER - AS SPECIFIED; REFRIGERATORS AND RANGES - OWNER PROVIDED.
- CLASSROOM FURNITURE:**
1. TABLES, SIX (6) TOTAL
MANUFACTURER: KI CONTRACT FURNITURE, (800) 424-2432
STOUT TABLE, 42 X 60, PHENOLIC RESIN TOP
ADJUSTABLE HEIGHT 27-40
 2. CHAIRS, TWENTY-FOUR (24) TOTAL
MANUFACTURER: KI CONTRACT FURNITURE, (800) 424-2432
KI, RUCKUS, STACK BASE, BAG STORAGE, SEAT: 18" H
COLOR: TBD
 3. STOOLS, SIXTEEN (16) TOTAL
MANUFACTURER: KI CONTRACT FURNITURE, (800) 424-2432
KI, 60 SERIES, SEAT: 14" DIA, ADJUSTABLE HEIGHT BASE: 25"-33"

IBC 2015: CODE DATA

USE GROUP CLASSIFICATION: EDUCATIONAL GROUP E
 TYPE OF CONSTRUCTION: TYPE VB (COMBUSTIBLE)
 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: 250'
 COMMON PATH OF TRAVEL: 75'

OCCUPANT LOAD

SPACE	AREA	FUNCTION	OCC LOAD FACTOR	TOTAL
CLASSROOMS	2003 SF	CLASSROOM	20	101
STORAGE	104 SF	STORAGE	300	1
TOTAL OCCUPANT LOAD				102

GENERAL NOTES: ALL WORK SHALL CONFORM TO LOCAL 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: 2305 SF
 FIRE SUPPRESSION: FULLY SPRINKLERED, SUPERVISED SYSTEM

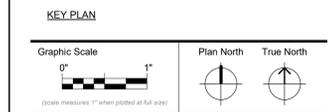
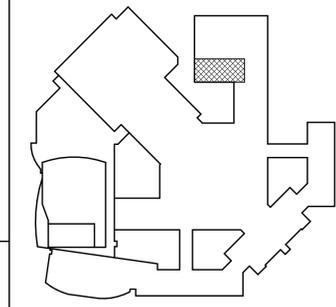
FLAME SPREAD RATING, ROOMS OR ENCLOSED SPACES: CLASS C
 INTERIOR FLOOR FINISH REQ.: CLASS A OR CLASS B

TRAVEL DISTANCE: NOT TO EXCEED 250'
 COMMON PATH OF TRAVEL: NOT TO EXCEED 75'

OCCUPANT LOAD

SPACE	AREA	FUNCTION	OCC LOAD FACTOR	TOTAL
CLASSROOMS	2003 SF	CLASSROOM	20	101
STORAGE	104 SF	STORAGE	300	1
TOTAL OCCUPANT LOAD				102

GENERAL NOTES: ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES, ORDINANCES AND REQUIREMENTS, ACCESSIBILITY PER A.D.A.A.G.



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**FLOOR PLAN,
DEMOLITION PLAN,
CEILING PLAN**

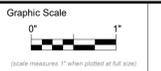
A1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

A5 CODES INFORMATION
SCALE: 1/8" = 1'-0"

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No. 22328



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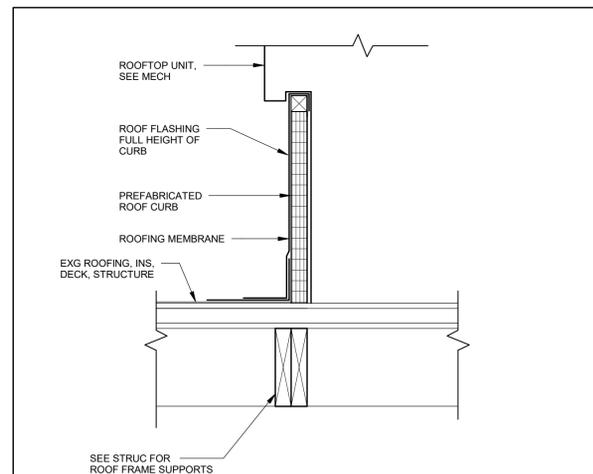
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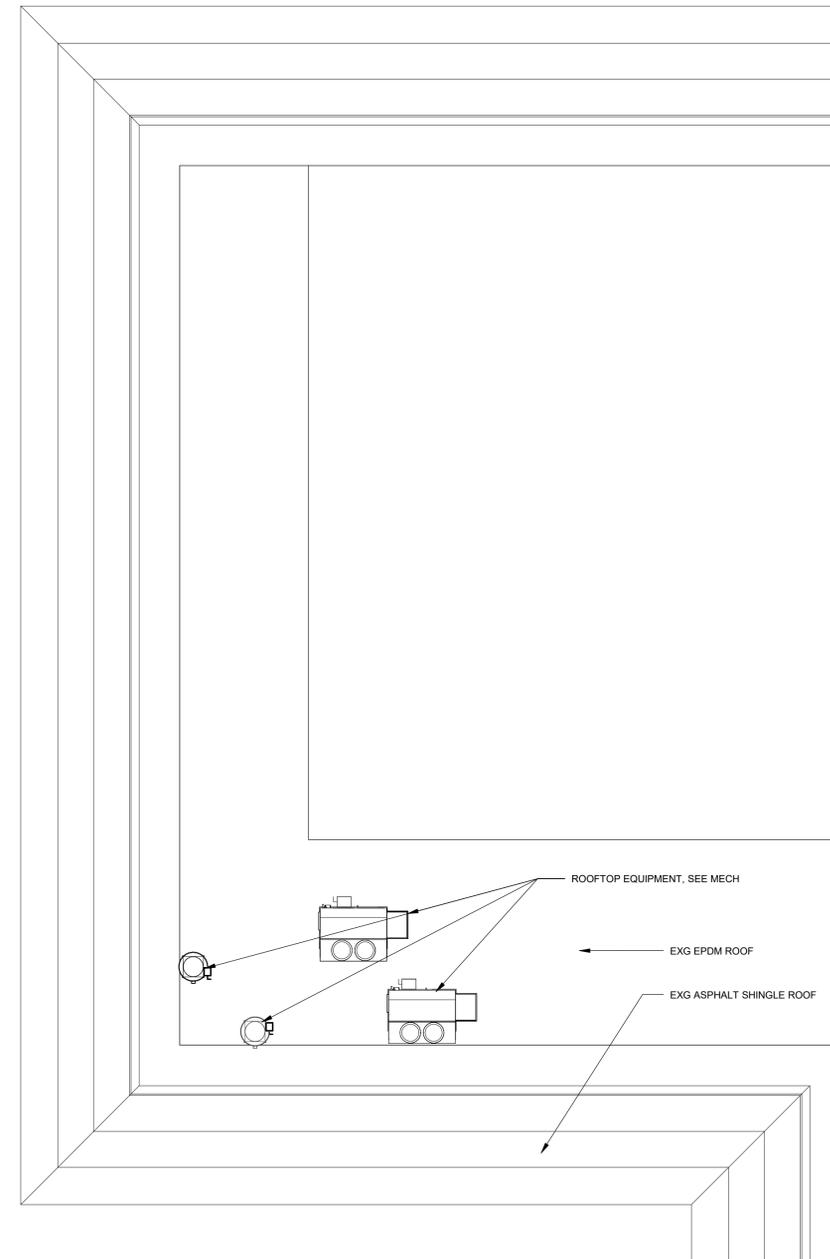
Drawn by: DRE

ROOF PLAN, ROOF DETAILS

A15-1



A3 ROOF CURB DETAIL
SCALE: 1 1/2" = 1'-0"



A4 PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"

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.
- DIVERSIFIED WOODCRAFTS STORAGE CABINETS: CONTACT: (800) 280-2776
 - MAPLE TOTE TRAY STORAGE CABINET
SKU: SHA-TTC-48
48" W X 84" H
 - ACCESS TOTE TRAY & SHELF STORAGE CABINET
SKU: DIV-351-4822M
48" W X 84" H
 - TALL WOOD STORAGE CABINET
SKU: SHA-GSC-22
48" W X 22" D X 84" H

CASEWORK LEGEND

PREFIX HEIGHT (NOMINAL)
XXWWHH
WIDTH

PREFIX:

A = ADA COMPLIANT
B = BASE
D = DRAWER
S = SINK
O = OPEN
T = TALL
H = HINGE DOOR
W = WALL

Graphic Scale



(Scale measures 1" when printed at full size)



CONSTRUCTION DOCUMENTS

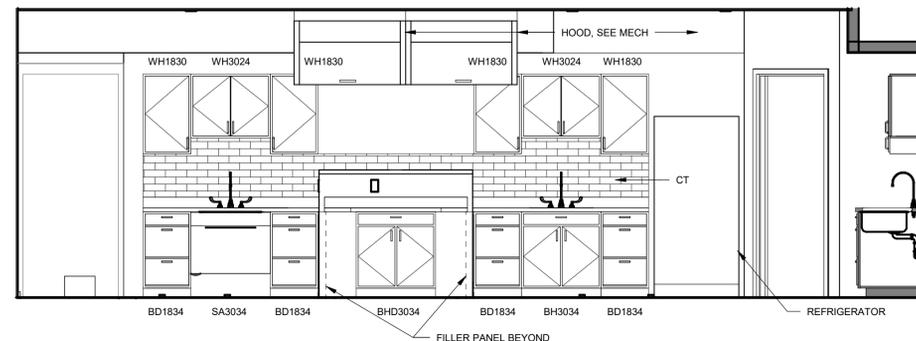
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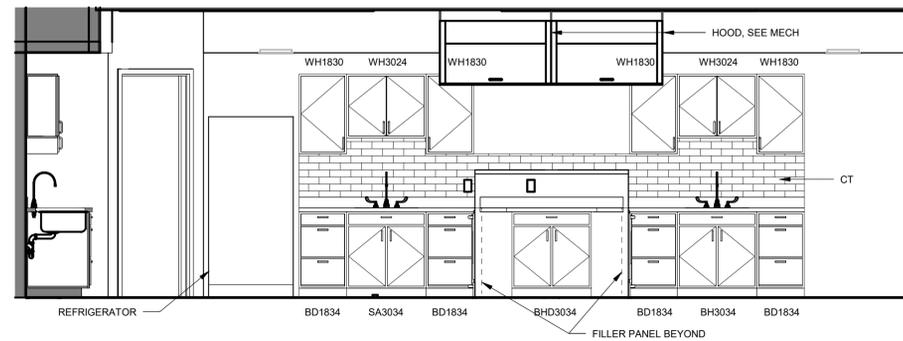
Drawn by: DRE

INTERIOR ELEVATIONS,
ROOM FINISH SCHEDULE

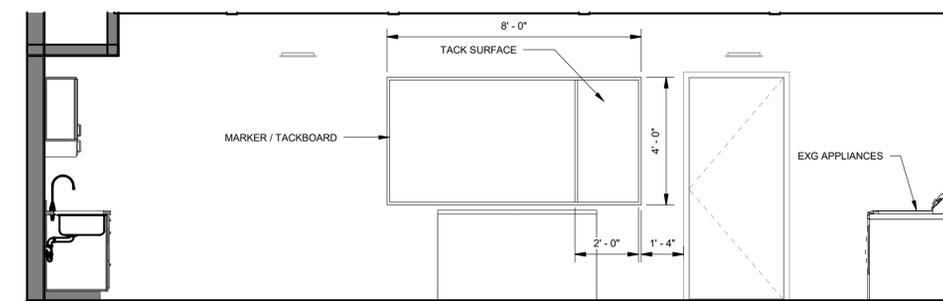
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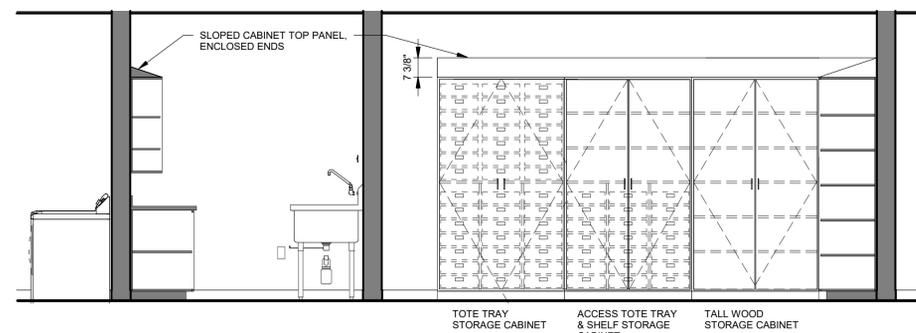
D1 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



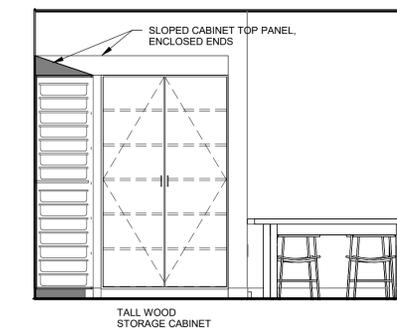
D3 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



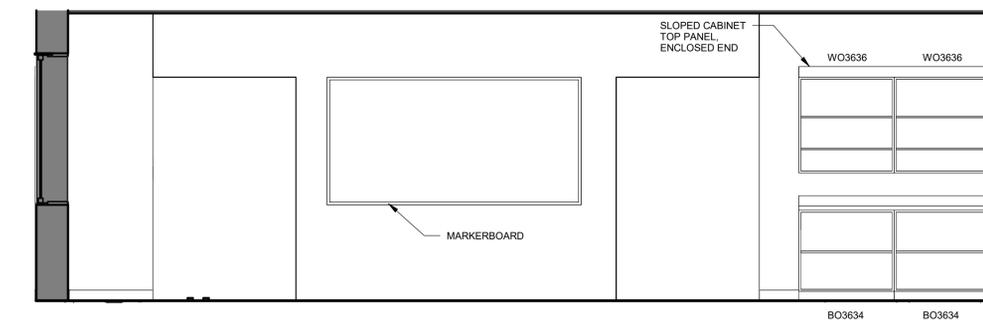
C1 KITCHEN ELEVATION
SCALE: 3/8" = 1'-0"



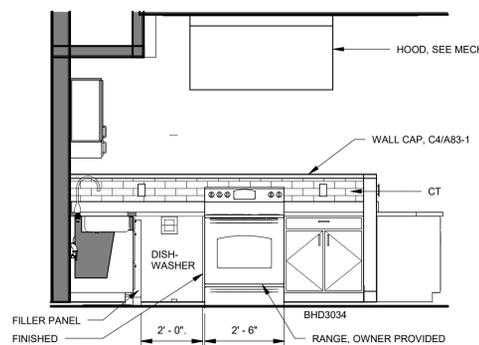
C3 CLASSROOM ELEVATION AT ART STORAGE
SCALE: 3/8" = 1'-0"



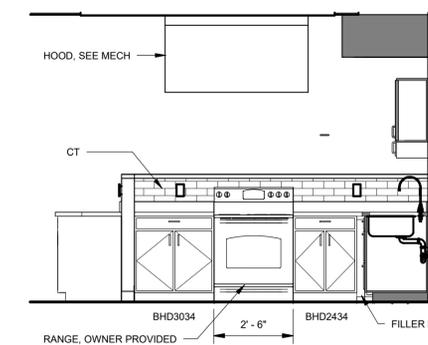
C4 ELEVATION AT ART STORAGE
SCALE: 3/8" = 1'-0"



B1 CLASSROOM ELEVATION
SCALE: 3/8" = 1'-0"



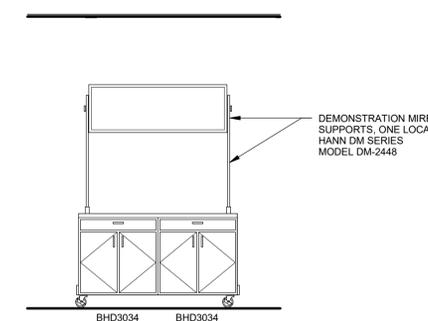
B3 KITCHEN ELEVATION AT RANGE, DW
SCALE: 3/8" = 1'-0"



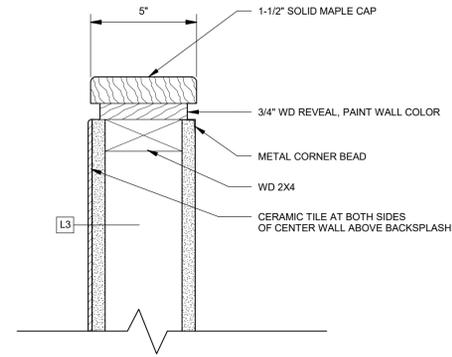
B4 KITCHEN ELEVATION AT RANGE
SCALE: 3/8" = 1'-0"

ROOM FINISH SCHEDULE								
No.	ROOM NAME	FLOOR	BASE	WALLS				REMARKS
				N	E	S	W	
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	

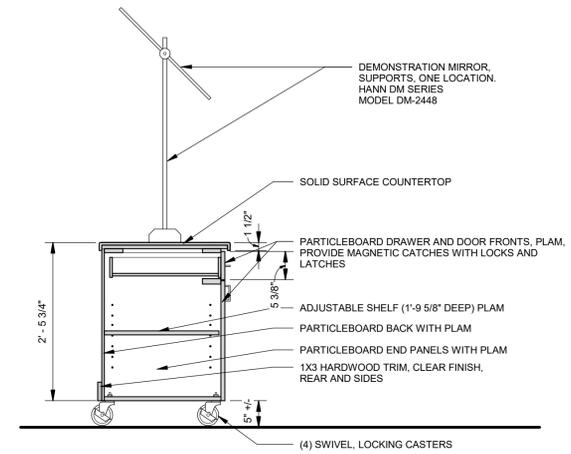
MATERIALS LEGEND			
MATERIAL	CODE No.	MANUFACTURER / SERIES	COLOR / FINISH
CERAMIC TILE	CT	EMSER RAKU 3" X 12"	TBD
PLASTIC LAMINATE	PL	PIONITE	HP HARDROCK MAPLE - CONFIRM
RESILIENT BASE	RB	TARKETT, TIGHTLOK	TBD
SOLID SURFACE	SS	CORIAN	ASH CONCRETE - TO BE CONFIRMED
TACK SURFACE	TS	FORBO	MUSHROOM MEDL
RESINOUS FLOORING	RES	DUR-A-FLEX HYBRI-FLEX AC	TBD
WALL PAINT	P1	SHERWIN WILLIAMS	STANDARD YHS WALL COLOR



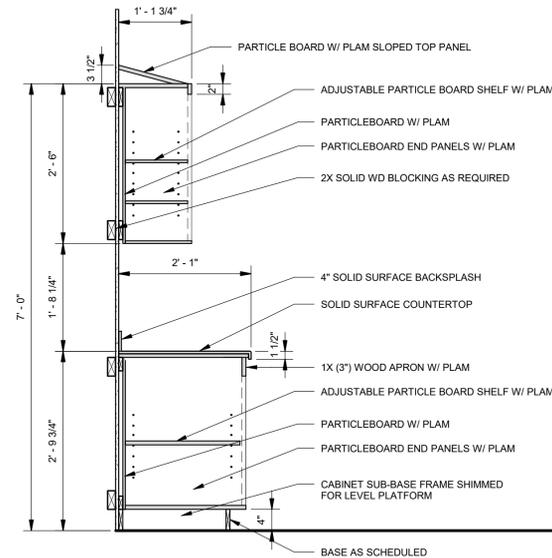
A4 TEACHER'S WORKSTATION
SCALE: 3/8" = 1'-0"



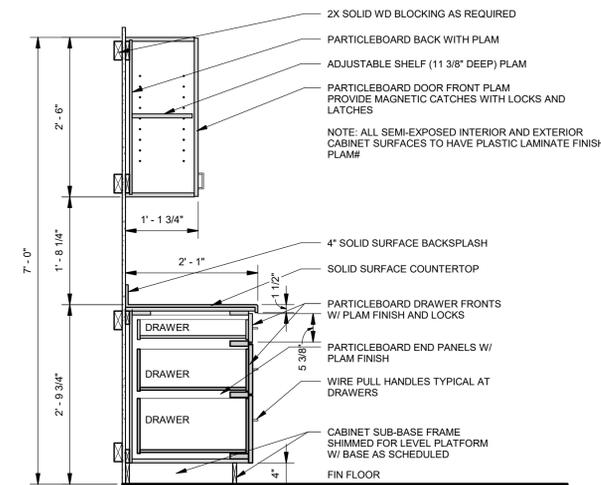
C4 WALL CAP DETAIL
SCALE: 3/4" = 1'-0"



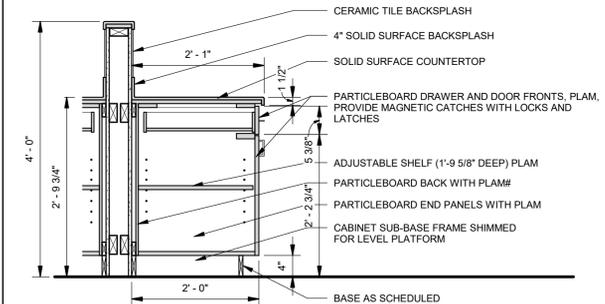
C5 TEACHER'S STATION
SCALE: 3/4" = 1'-0"



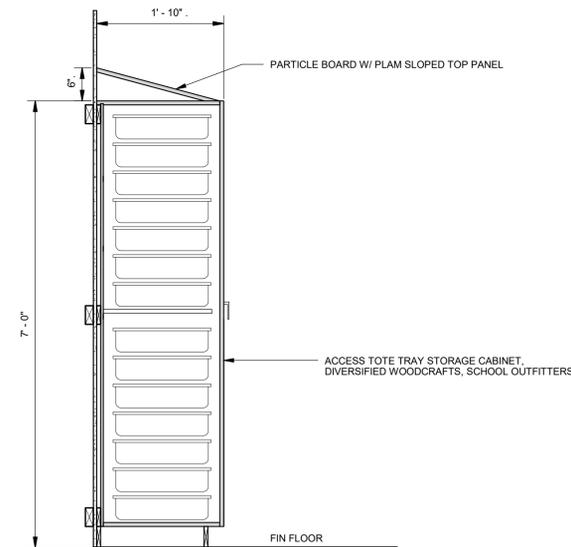
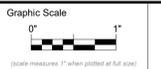
B3 ART STORAGE OPEN SHELVES
SCALE: 3/4" = 1'-0"



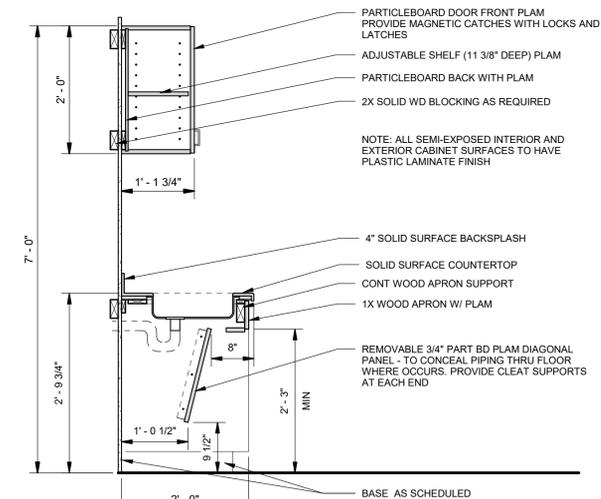
B4 WALL AND BASE CABINET DETAIL
SCALE: 3/4" = 1'-0"



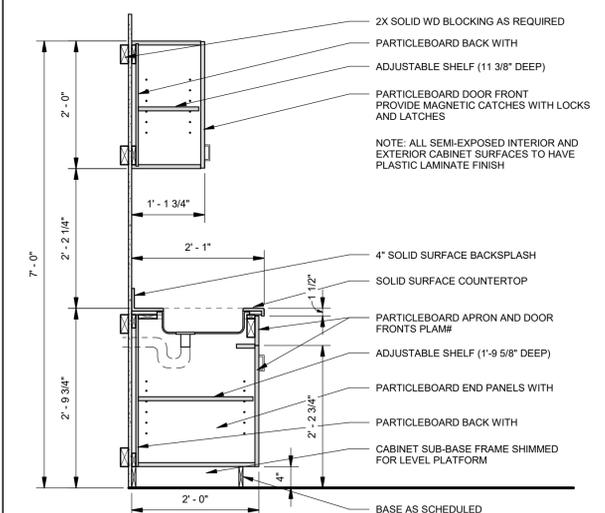
B5 LOW WALL AND BASE CABINET DETAIL
SCALE: 3/4" = 1'-0"



A3 ACCESS TOTE TRAY STORAGE CABINET
SCALE: 3/4" = 1'-0"



A4 24" DEEP HANDICAP SINK BASE (ADA)
SCALE: 3/4" = 1'-0"



A5 WALL AND BASE CABINET DETAIL W/ SINK
SCALE: 3/4" = 1'-0"



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: DRE

MILLWORK DETAILS

A83-1

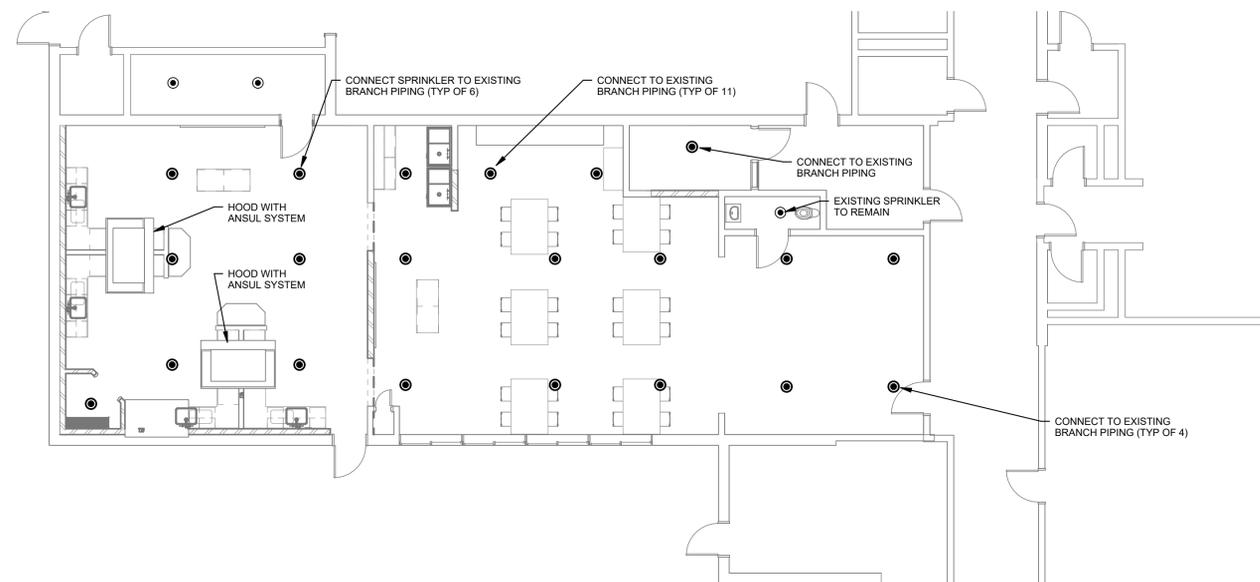
LEGEND

— F	SPRINKLER PIPING ABOVE FINISHED FLOOR	□	CAP
●	CONCEALED PENDANT WET SPRINKLER	DN	DOWN
○	SEMI RECESSED WET SPRINKLER	AFF	ABOVE FINISHED FLOOR
○	SEMI RECESSED DRY SPRINKLER	BFF	BELOW FINISHED FLOOR
○	UPRIGHT SPRINKLER	TYP.	TYPICAL
▽	SIDEWALL WET SPRINKLER		
▽	SIDEWALL DRY SPRINKLER		

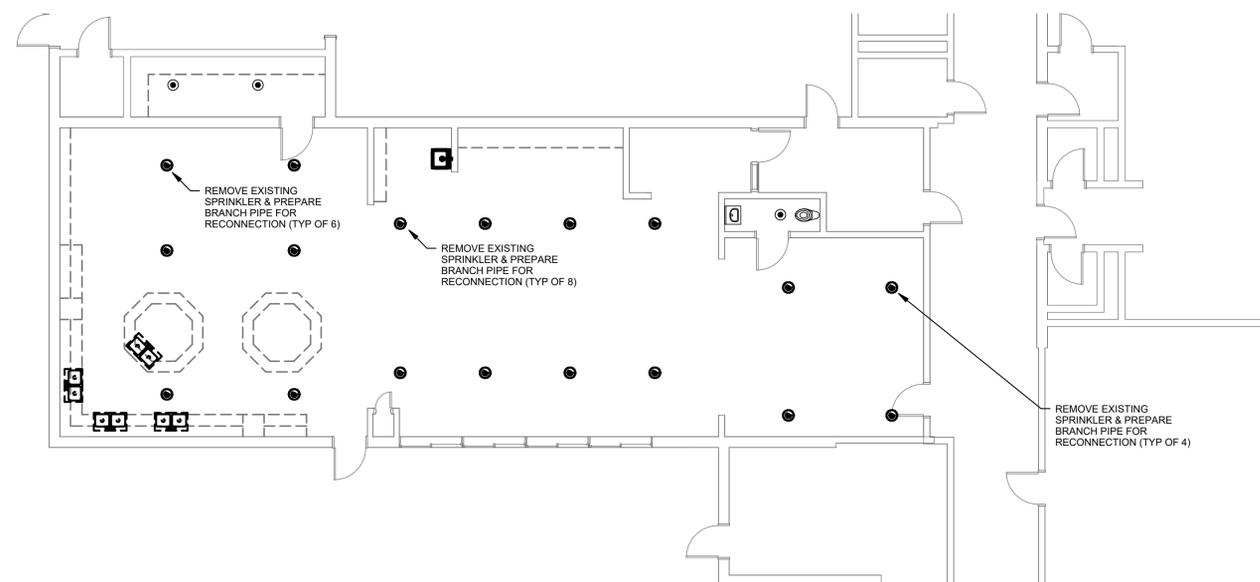
DESIGN NOTE:
 1.) CONTRACTOR SHALL PROVIDE SPRINKLER LAYOUT TO PROVIDE FIRE PROTECTION FOR FLOOR PLAN LAYOUT. COORDINATE SPRINKLER HEAD TYPES REQUIRED WITH NEW CEILING CONSTRUCTION. COORDINATE LOCATION OF SPRINKLER HEADS WITH ALL OTHER TRADES. PROVIDE SPRINKLER HEADS WITHIN ALL COMBUSTIBLE CEILING CAVITIES. 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 THROUGH THE BUILDING.

FIRE PROTECTION NOTES

1. SPRINKLERS & PIPING SHALL BE PROVIDED WITHIN THE BUILDING IN ACCORDANCE WITH NFPA 13.
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 OBSTRUCTED.
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 WOODEN BEAMS. PIPING SHALL NOT BE ATTACHED TO STEEL DECK UNDER ANY CIRCUMSTANCES.

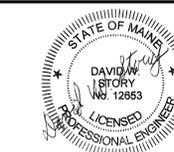
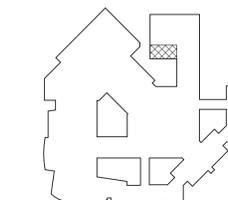


C3 FIRST FLOOR FIRE PROTECTION
 SCALE: 1/8" = 1'-0"



A1 FIRST FLOOR DEMOLITION FIRE PROTECTION
 SCALE: 1/8" = 1'-0"

Key Plan



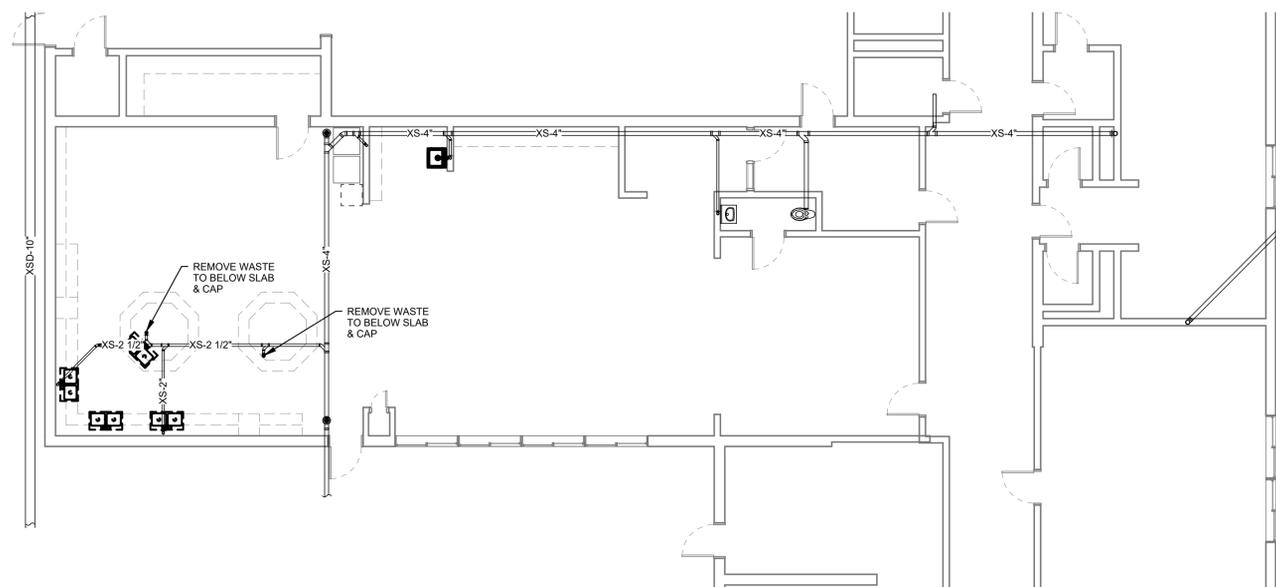
CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date	Revision Description

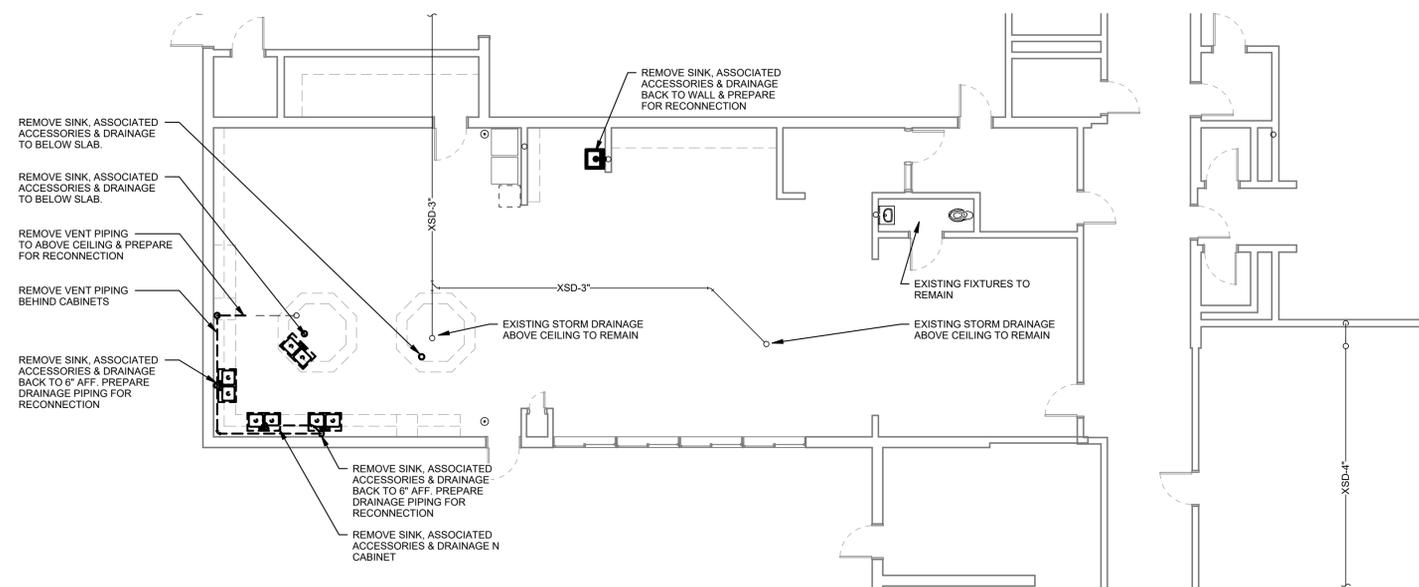
Drawn by: MAM

FIRE PROTECTION PLANS



C1 BELOW SLAB DRAINAGE DEMOLITION

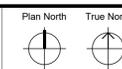
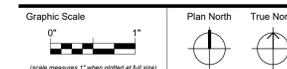
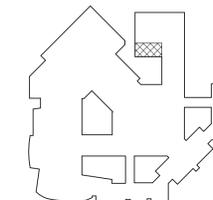
SCALE: 1/8" = 1'-0"



A1 ABOVE SLAB DRAINAGE DEMOLITION

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

Key Plan



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date	Revision Description

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DRAINAGE DEMOLITION

P05-1

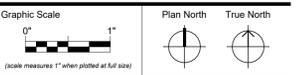
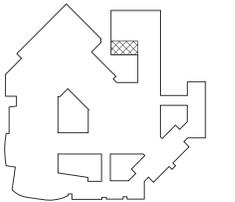
Harriman

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No. 22328

Key Plan



CONSTRUCTION DOCUMENTS

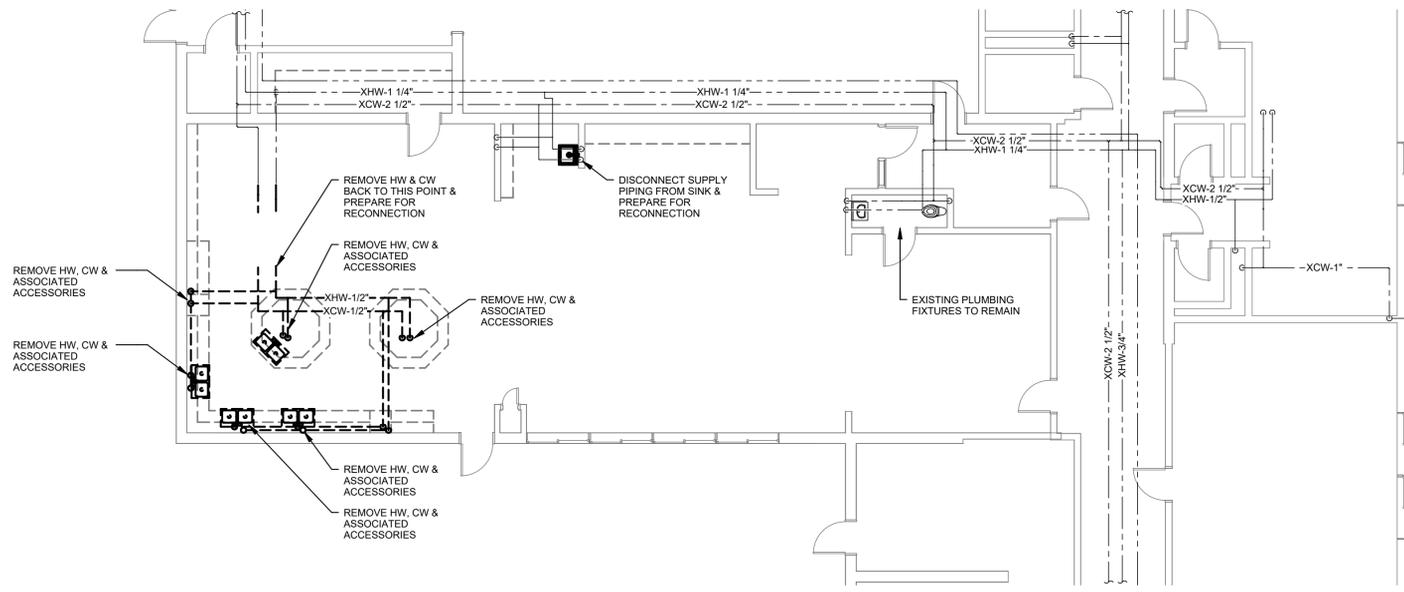
JANUARY 30, 2024

Revision Date	Revision Description

Drawn by: MAM

SUPPLY DEMOLITION

P06-1



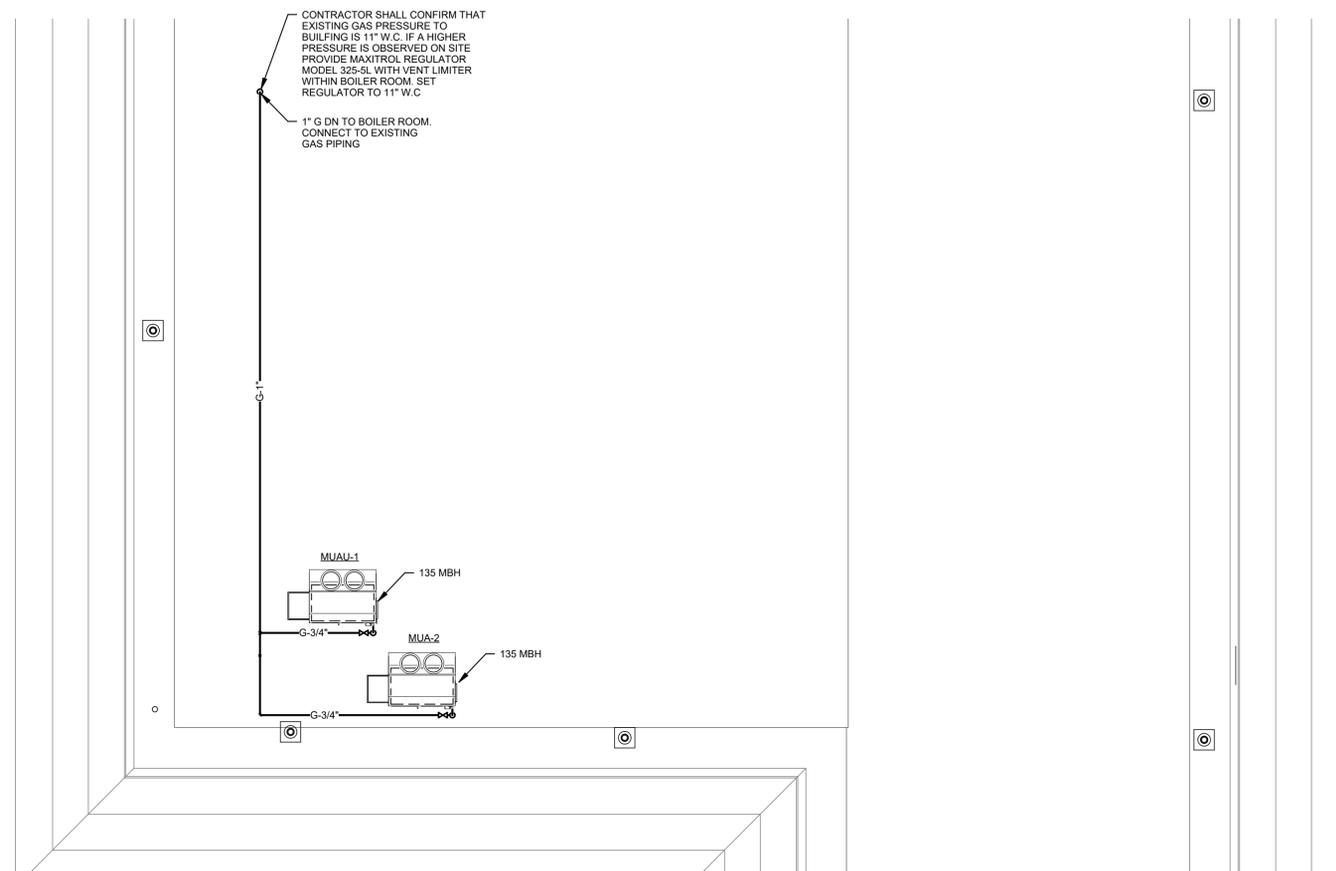
Harriman

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

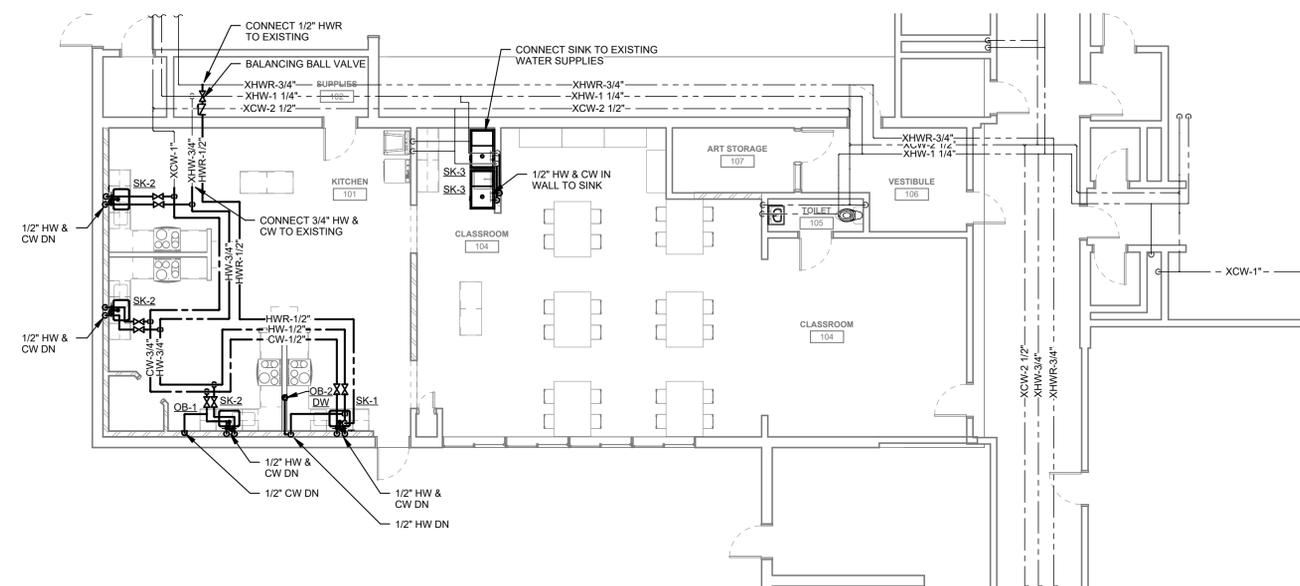
YORK, MAINE

Harriman Project No. 22328

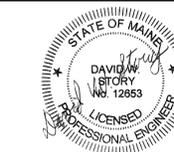
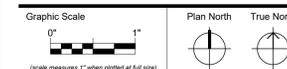
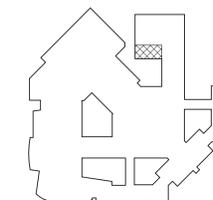
C1 ROOF PLAN
SCALE: 1/8" = 1'-0"



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



Key Plan



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date	Revision Description

Drawn by: MAM

SUPPLY PLANS

P20-1

PLUMBING FIXTURE INSTALLATION SCHEDULE

FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR

TAG	DESCRIPTION	BRANCH CONNECTION				BASIS OF DESIGN FIXTURE SPECIFICATIONS REFER TO THE SPECIFICATIONS FOR APPROVED EQUALS AND DETAILED DESCRIPTIONS	BASIS OF DESIGN FIXTURE SPECIFICATIONS REFER TO THE SPECIFICATIONS FOR APPROVED EQUALS AND DETAILED DESCRIPTIONS	MOUNTING HEIGHT TO RIM UNLESS NOTED OTHERWISE
		W	V	CW	HW			
SK-1	UNDERCOUNTER MOUNT SINK	2"	1 1/2"	1/2"	1/2"	JUST UNDERMOUNT SINK MODEL USNADA1824A5-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 DRAINBOARD	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

Harriman

YORK HIGH SCHOOL
FAMILY SCIENCES
CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No. 22328



CONSTRUCTION DOCUMENTS

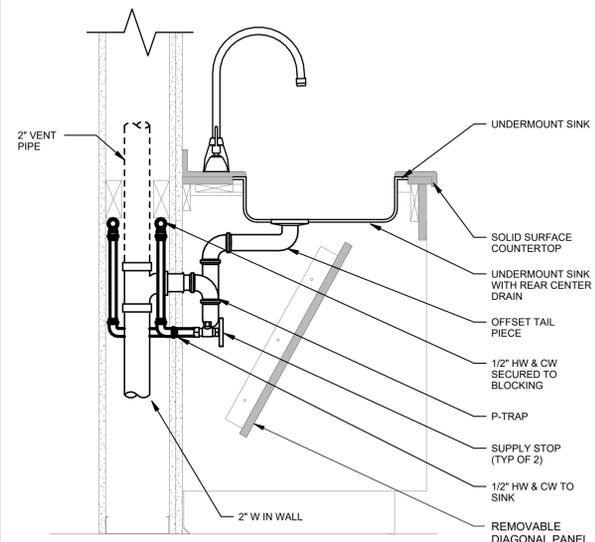
JANUARY 30, 2024

Revision Date Revision Description

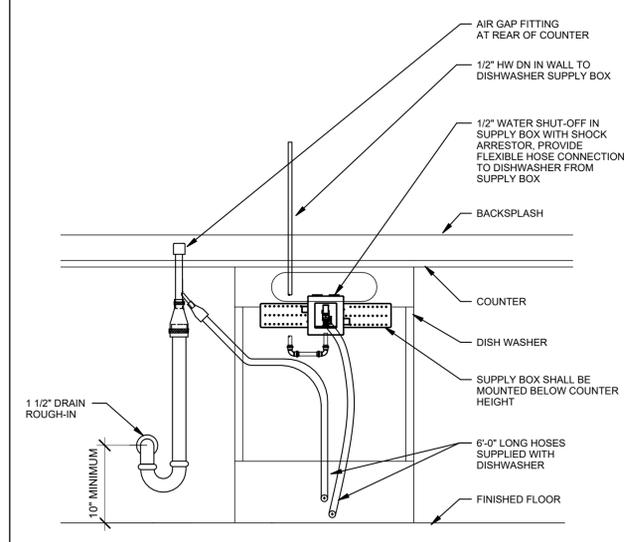
Drawn by: MAM

DETAILS & SCHEDULES

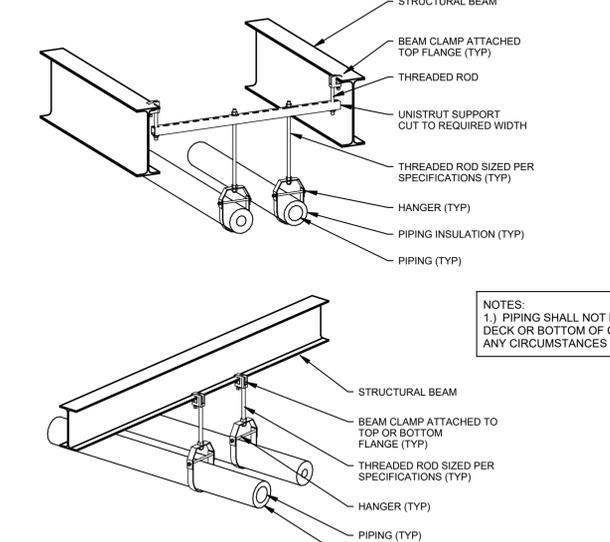
P50-1



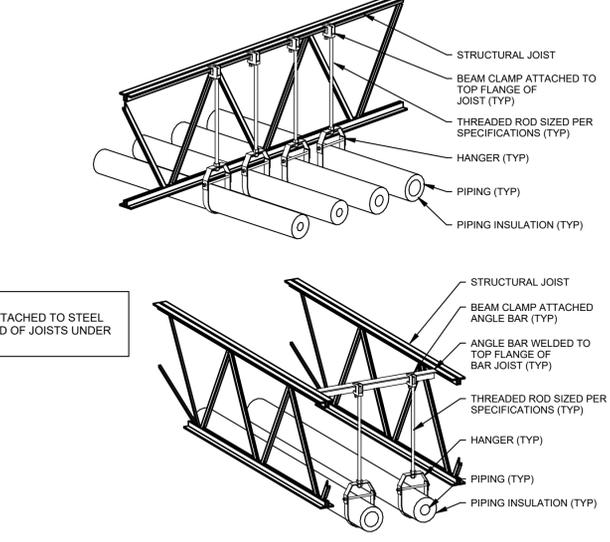
A1 TYPICAL PLUMBING AT ADA SINK
NO SCALE



A2 DISHWASHER AIRGAP FITTING
NO SCALE



A3 HANGER ATTACHMENTS TO STRUCTURES
NO SCALE



A3 HANGER ATTACHMENTS TO STRUCTURES
NO SCALE

NOTES:
1.) PIPING SHALL NOT BE ATTACHED TO STEEL DECK OR BOTTOM OF CHORD OF JOISTS UNDER ANY CIRCUMSTANCES

ABBREV DESCRIPTION

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

ABBREV DESCRIPTION

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

PIPING LEGEND

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

DUCTWORK LEGEND

SYMBOL	DESCRIPTION
	EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK
	ACOUSTICALLY LINED DUCT
	AIRFLOW MEASURING STATION
	BACKDRAFT DAMPER
	COUNTERBALANCED DAMPER
	SPIRAL DUCT DIAMETER
	DUCT SECTION - SUPPLY/OUTDOOR AIR
	DUCT SECTION - RETURN AIR
	DUCT SECTION - EXHAUST AIR
	DUCT TURNING VANES
	FIRE DAMPER (1 1/2 HOUR RATED)
	FIRE AND SMOKE DAMPER (1 1/2 HOUR RATED)
	FIRE DAMPER (3 HOUR RATED)
	FLEXIBLE DUCT
	LOUVER
	MOTORIZED DAMPER
	PRESSURE RELIEF DAMPER
	RETURN OR EXHAUST AIR
	SMOKE DAMPER
	DUCT MOUNTED SMOKE DETECTOR
	STATIC PRESSURE SENSOR
	SUPPLY OR OUTSIDE AIR
	VOLUME DAMPER

CONTROLS LEGEND

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

GENERIC LEGEND

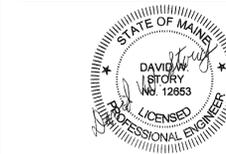
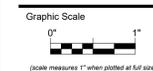
SYMBOL	DESCRIPTION
	CONNECT NEW TO EXISTING
	COMPLETELY REMOVE EQUIPMENT, DUCTWORK, OR PIPING
	EXISTING EQUIPMENT TO REMAIN
	NEW EQUIPMENT
	SECTION I.D. (SECTION A SHOWN ON DWG. M10.1)

GENERAL NOTES

- VISIT THE BUILDING SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS, AND TO TAKE MEASUREMENTS AS NECESSARY FOR COMPLETION OF THE WORK ASSOCIATED WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
- COORDINATE WORK OF MECHANICAL SUBCONTRACTOR WITH WORK OF OTHER TRADES.
- DUCTWORK, PIPING AND EQUIPMENT ARE INDICATED DIAGRAMMATICALLY. FIELD-VERIFY LOCATIONS.
- 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.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF CEILING DIFFUSERS AND REGISTERS.
- 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 VANES.
- PROVIDE 16 GAUGE SINGLE-THICKNESS TURNING VANES AT MITERED DUCT ELBOWS. VANE EDGES (LEADING AND TRAILING) SHALL BE TANGENTIAL TO AIRFLOW.
- FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 5'-0"
- PAINT DUCTWORK VISIBLE THRU CEILING OPENINGS, DUCT OPENINGS, AND REGISTERS, GRILLES, AND DIFFUSERS WITH BLACK PAINT IN ACCORDANCE WITH DIVISION 09 SECTION "PAINTING."
- MOUNT THERMOSTATS AND TEMPERATURE AND HUMIDITY SENSORS AT 48 INCHES AFF TO TOP OF ITEM. PROVIDE ELECTRICAL WALL BOX ATTACHED TO FRAMING.
- WHERE THERMOSTATS/TEMPERATURE SENSORS ARE LOCATED NEAR LIGHT SWITCHES, INSTALL SO THAT LIGHT SWITCHES ARE NEARER TO THE DOOR JAMBS. THE INTENT IS TO LOCATE THERMOSTATS/ TEMPERATURE SENSORS SO THEY WILL NOT INTERFERE WITH ACCESSIBILITY OF LIGHT SWITCHES.
- 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.
- PIPING SHALL BE CONCEALED EXCEPT IN MECHANICAL ROOMS AND AS INDICATED. WHERE PIPES DROP IN BLOCK WALLS, PROVIDE 1/2" THICK INSULATION MINIMUM.
- SEAL DUCTWORK AND PIPING THRU MECHANICAL ROOM FLOORS AND PARTITIONS, AND THRU FIRE-RATED ASSEMBLIES, WITH FIRESTOP MATERIAL AS SPECIFIED.
- 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.
- 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

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



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date	Revision Description

Drawn by: MSJ

LEGEND & GENERAL NOTES

Harriman

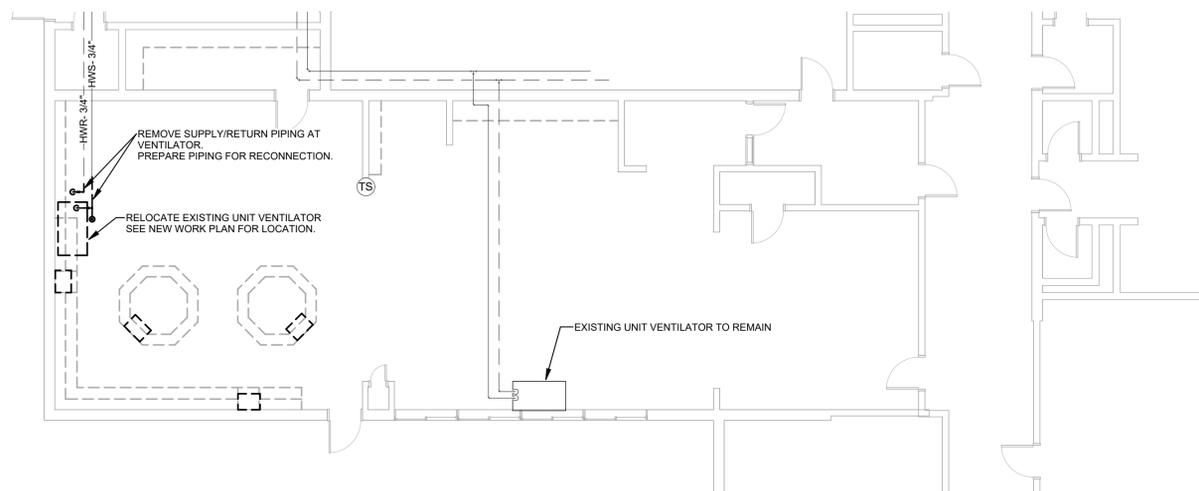
YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No. 22328

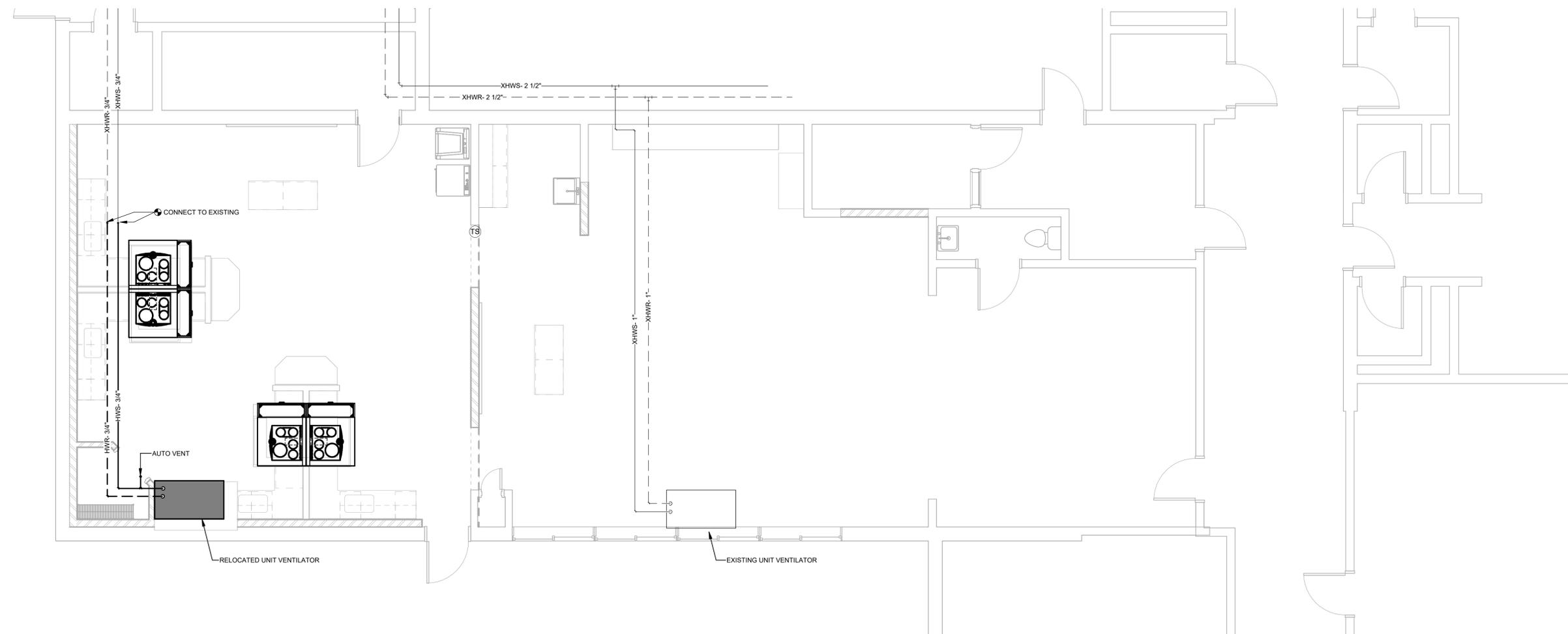
C1 FIRST FLOOR DEMOLITION PIPING

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



A1 FIRST FLOOR PIPING

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



Key Plan



CONSTRUCTION DOCUMENTS

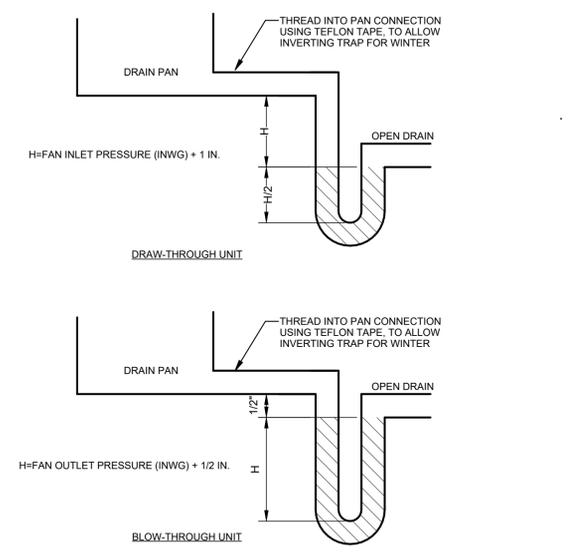
JANUARY 30, 2024

Revision Date Revision Description

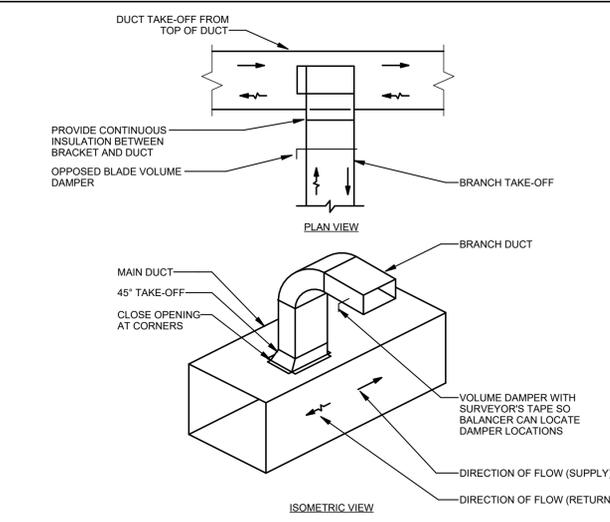
Drawn by: MSJ

FIRST FLOOR PIPING

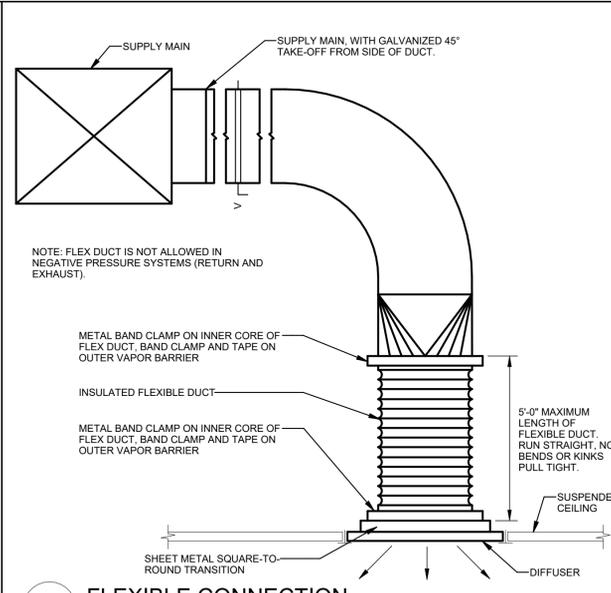
M20-1



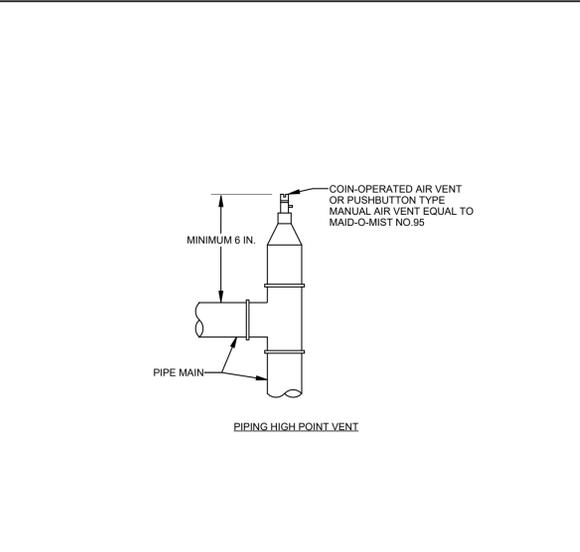
C2 CONDENSATE DRAIN TRAP ROOFTOP UNITS
NO SCALE



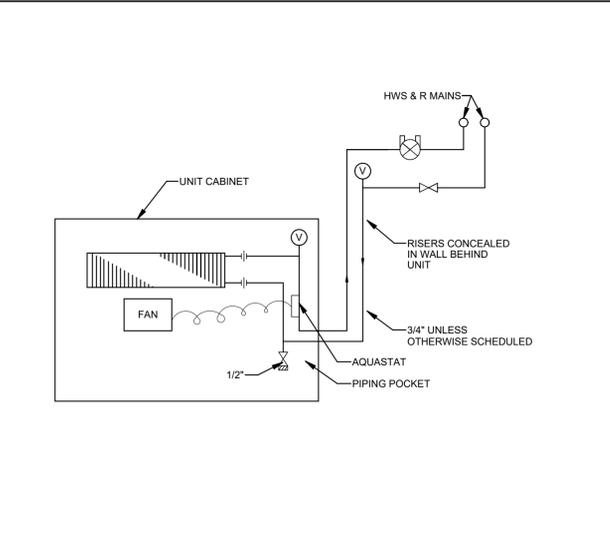
C3 TOP OR BOTTOM BRANCH TAKE-OFF
NO SCALE



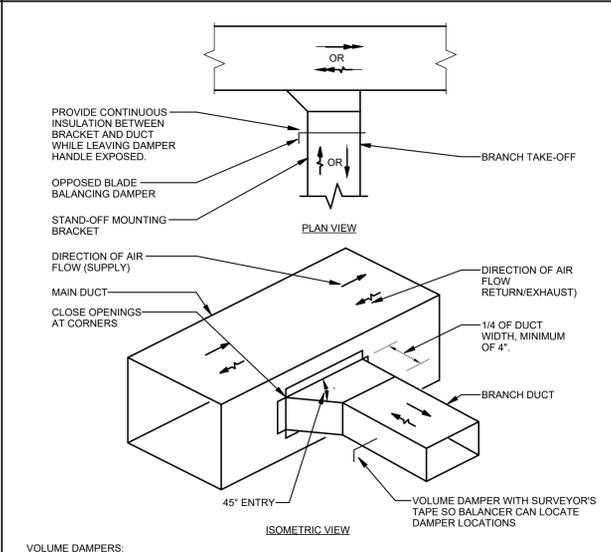
C4 FLEXIBLE CONNECTION
NO SCALE



B2 MANUAL AIR VENT
NO SCALE

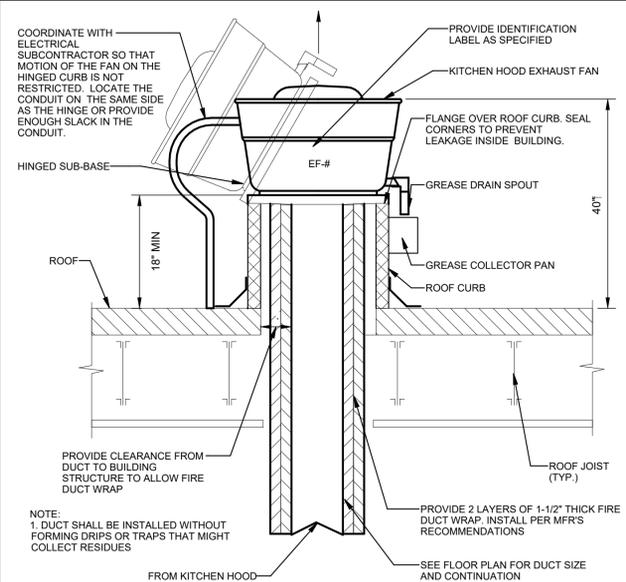


B3 HOT WATER UNIT VENTILATOR DOWN FEED
SCALE: 1/8" = 1'-0"

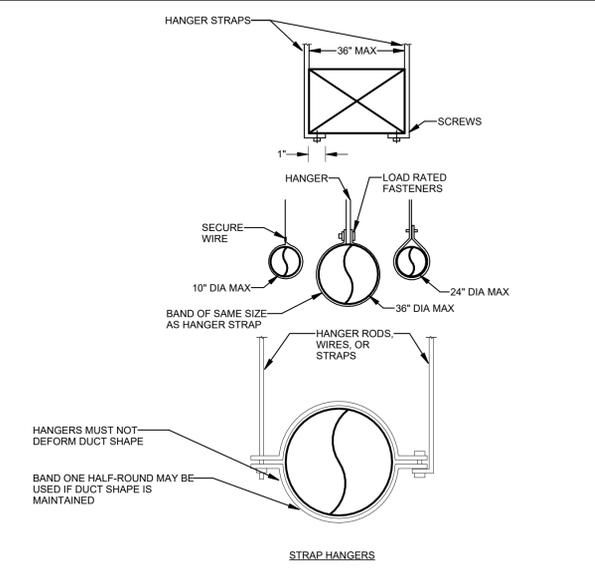


B4 SIDE BRANCH TAKE-OFF
NO SCALE

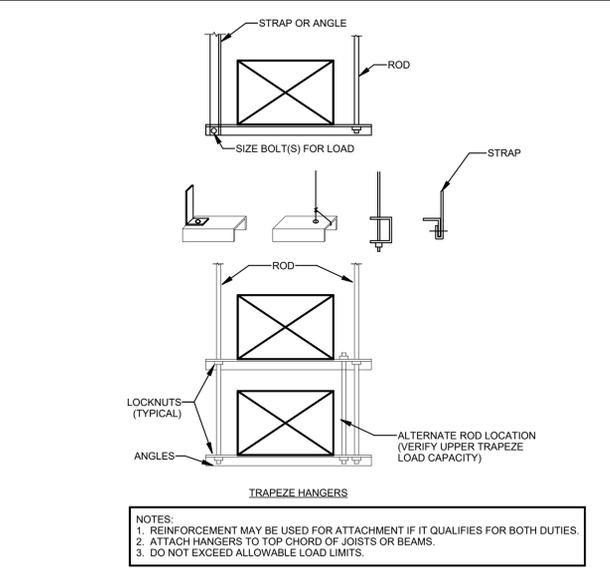
VOLUME DAMPERS:
1) PROVIDE STAND-OFF BRACKETS ON INSULATED DUCTS.
2) INSULATE UNDER BRACKETS, SEAL VAPOR BARRIER TO BRACKETS
3) PROVIDE LOCKING, INDICATING QUADRANTS.



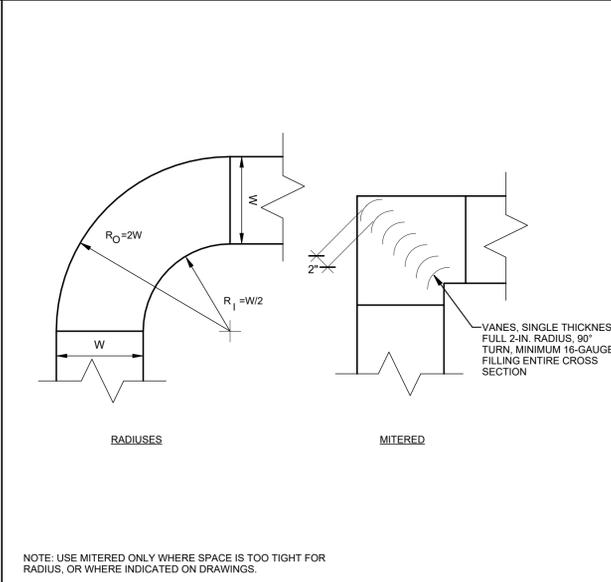
A1 KITCHEN EXHAUST FAN
NO SCALE



A2 LOWER HANGER ATTACHMENT
NO SCALE



TRAPEZE HANGERS
NOTES:
1. REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUTIES.
2. ATTACH HANGERS TO TOP CHORD OF JOISTS OR BEAMS.
3. DO NOT EXCEED ALLOWABLE LOAD LIMITS.



A4 DUCT ELBOW
NO SCALE

NOTE: USE MITERED ONLY WHERE SPACE IS TOO TIGHT FOR RADIUS, OR WHERE INDICATED ON DRAWINGS.



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

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Drawn by: MSJ

DETAILS

M50-1

FOR QUESTIONS, CALL THE
Maine Office
REGION 21
PHONE: (207) 796 - 2590
EMAIL: reg21@captiveaire.com

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

HOOD INFORMATION - JOB#6436463

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				HOOD CONSTRUCTION	HOOD CONFIG			
										WIDTH	LENG	HEIGHT	DIA		CFM	VEL	SP	END TO END
1	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
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

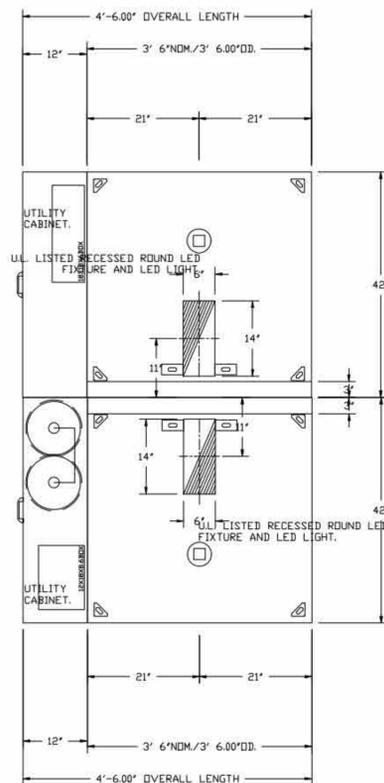
HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)			FIRE SYSTEM	ELECTRICAL	SWITCHES	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE						SIZE
1	Front	CAPTRATE SOLD FILTER	2	16"	20"	85% SEE FILTER SPEC	1	RECESSED ROUND	NO	LEFT	12"x42"x24"	TANK FS	4.0/4.0				YES	510 LBS
2	Back	CAPTRATE SOLD FILTER	2	16"	20"	85% SEE FILTER SPEC	1	RECESSED ROUND	NO	RIGHT	12"x42"x24"			SC-311110MA	1 LIGHT 1 FAN		YES	341 LBS
3	Front	CAPTRATE SOLD FILTER	2	16"	20"	85% SEE FILTER SPEC	1	RECESSED ROUND	NO	LEFT	12"x42"x24"	TANK FS	4.0/4.0				YES	510 LBS
4	Back	CAPTRATE SOLD FILTER	2	16"	20"	85% SEE FILTER SPEC	1	RECESSED ROUND	NO	RIGHT	12"x42"x24"			SC-311110MA	1 LIGHT 1 FAN		YES	341 LBS

HOOD OPTIONS

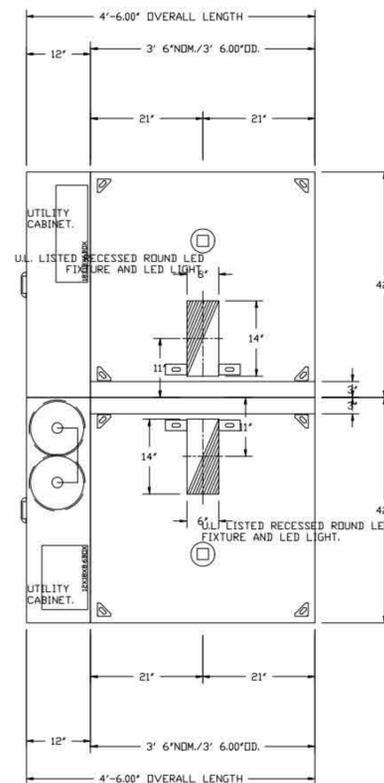
HOOD NO	TAG	OPTION
1	Front	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. ELEC COLD AIR BACKDRAFT DAMPRS. RISER SENSOR INSTALL 6IN PLEN. MIN 18 GAUGE HOOD.
2	Back	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. ELEC COLD AIR BACKDRAFT DAMPRS. RISER SENSOR INSTALL 6IN PLEN. MIN 18 GAUGE HOOD.
3	Front	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. ELEC COLD AIR BACKDRAFT DAMPRS. RISER SENSOR INSTALL 6IN PLEN. MIN 18 GAUGE HOOD.
4	Back	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. ELEC COLD AIR BACKDRAFT DAMPRS. RISER SENSOR INSTALL 6IN PLEN. MIN 18 GAUGE HOOD.

PLAN VIEW - HOOD #2 (Back)
3' 6.00" LONG 4224ND-2-100MC



PLAN VIEW - HOOD #1 (Front)
3' 6.00" LONG 4224ND-2-100MC

PLAN VIEW - HOOD #4 (Back)
3' 6.00" LONG 4224ND-2-100MC



PLAN VIEW - HOOD #3 (Front)
3' 6.00" LONG 4224ND-2-100MC

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLD FILTER

THE CAPTRATE GREASE-STOP SOLD 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.

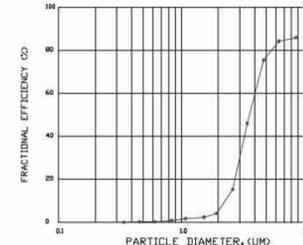
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

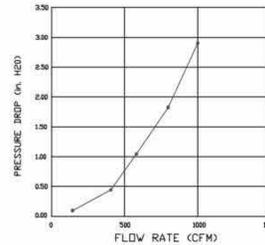
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLD WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

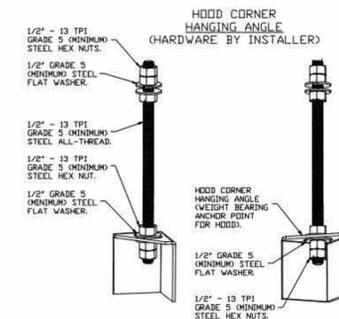
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE

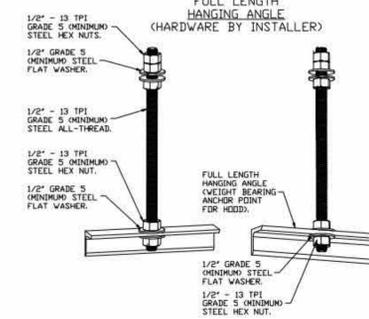


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



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" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

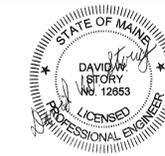
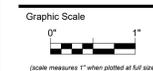
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE 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.

Harriman

YORK HIGH SCHOOL
FAMILY SCIENCES
CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No. 22328



CONSTRUCTION DOCUMENTS

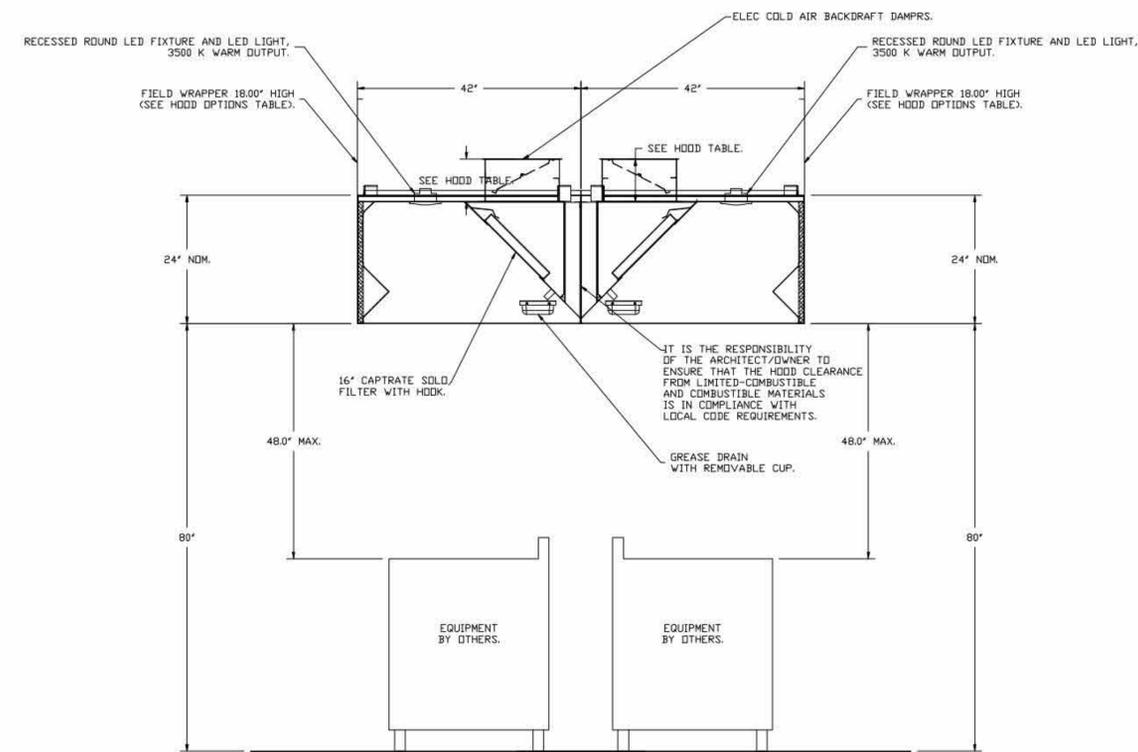
JANUARY 30, 2024

Revision Date Revision Description

Drawn by: MSJ

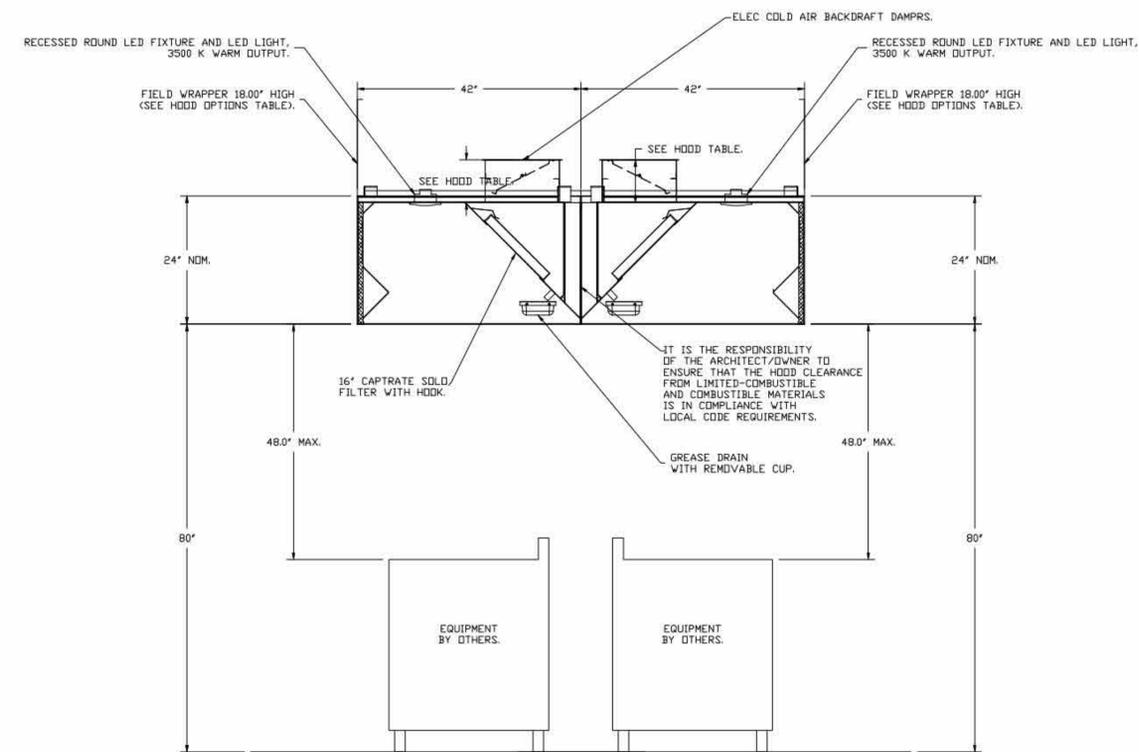
DETAILS

M50-2



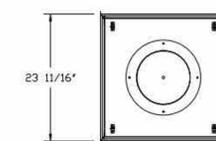
SECTION VIEW - MODEL 4224ND-2-100MC
HOOD - #2 (Back)

SECTION VIEW - MODEL 4224ND-2-100MC
HOOD - #1 (Front)

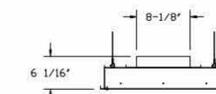
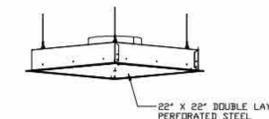


SECTION VIEW - MODEL 4224ND-2-100MC
HOOD - #4 (Back)

QTY 8-DROP-IN PERFORATED SUPPLY PLENUM DIFFUSER (DI-PSP)



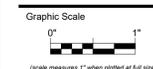
FEATURES:
STAINLESS STEEL PERFORATION AND TRIM
REMOVABLE PERFORATION FOR PLENUM CLEANING
DOUBLE PERFORATION FOR EVEN AIR DISTRIBUTION
1/2" THICK INSULATION ON EXTERIOR TOP AND SIDES
APPROX. WEIGHT = 20 lbs



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

VERTICAL THROW DATA (Ft)			
CFM	T150	T100	T50
600	1.25'	3.00'	7.75'
500	0.50'	2.50'	6.25'
400	---	1.25'	4.50'
300	---	---	3.75'
200	---	---	0.50'



CONSTRUCTION DOCUMENTS

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DETAILS

M50-3

FIRE SYSTEM INFORMATION - JOB#6436463

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	GROUP 1	TANK FS	4.0/4.0	40	36	FIRE CABINET LEFT	LEFT, HOOD 1
2	GROUP 2	TANK FS	4.0/4.0	40	36	FIRE CABINET LEFT	LEFT, HOOD 3

FIRE SYSTEM PARTS LIST KEY

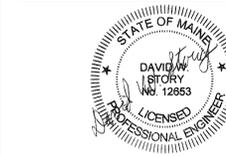
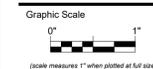
FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST		
1	Group 1	0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0		
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0		
		0 - 0 - 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO. CLOSE DN TEMP RISE AT 360°F.	2	0		
		0 - 0 - 32-00002 QUIK SEAL - 1/2" (UL).	2	0		
		0 - 0 - 361091 3/8" BRASS PLUG.	2	0		
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	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 PROPPRESS 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.	2	0		
		0 - 0 - 87-120042-001 SECONDARY 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 SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0		
		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 PRO PRESS PC611 1/2 PRESS TEE LD.	7	0		
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0		
		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" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0		
		0 - 0 - B1145 3/8" BLACK IRON 90 ELL.	4	0		
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0		
		0 - 0 - SLPDCN-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		
		0 - 0 - SLPDCN-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.	2	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 NDZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	8	0		
		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		
		2	Group 2	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.	1	0
				0 - 0 - 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO. CLOSE DN TEMP RISE AT 360°F.	2	0
0 - 0 - 32-00002 QUIK SEAL - 1/2" (UL).	2			0		
0 - 0 - 361091 3/8" BRASS PLUG.	2			0		
0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2			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 PROPPRESS 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.	2			0		
0 - 0 - 87-120042-001 SECONDARY 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 SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1			0		
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 PRO PRESS PC611 1/2 PRESS TEE LD.	7			0		
0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4			0		
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" MPT HALF UNION. USED ON TANK SERVICE PORT.	1			0		
0 - 0 - B1145 3/8" BLACK IRON 90 ELL.	4			0		
0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2			0		
0 - 0 - SLPDCN-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		
0 - 0 - SLPDCN-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.	2			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 NDZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	8			0		
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		

Harriman

YORK HIGH SCHOOL
FAMILY SCIENCES
CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No. 22328



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

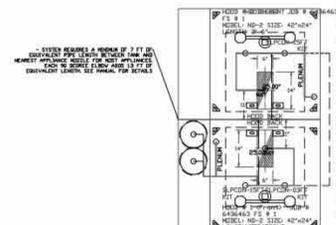
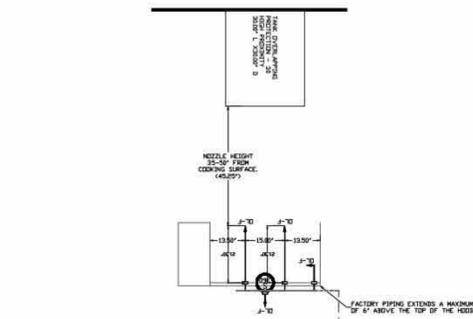
Revision Date Revision Description

Drawn by: MSJ

DETAILS

M50-4

INCLUDES FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLER ONLY FOR THE LOCATION NOTED ABOVE. TWO SITE VISITS (ON 2) ARE NECESSARY TO SET WALL, DUCTWORK & SYSTEM WIRING AND ONE CHARGE. ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2 1/2" PERMITTED AND SYSTEM TEST.
EXCLUDED: UNDER LABOR & MATERIALS WAGE LABOR & WAGES WILL BE ADDED IF APPLICABLE. GAS VALVE INSTALLATION, ELECTRICAL, HOOKUP AND CONSULTING, WIRING OF THE CHIMNEY, DUCTWORK, WIRING, EXTINGUISHERS, ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

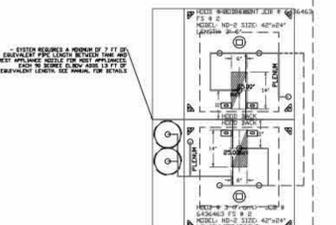
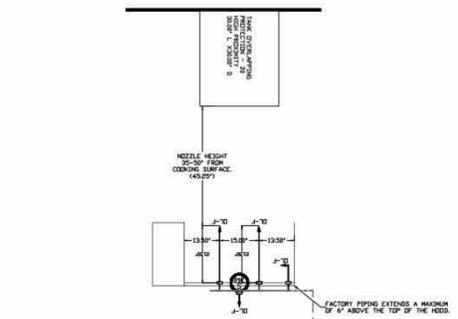


NOTES

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELIEFIC NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- DL-F NOZZLE PART NUMBER REPLACES 3070-3/BH-10-SS

JOB # 6436463
JOB NAME: YORK HIGH SCHOOL
SYSTEM SIZE: TANK-SP-2 DESIGN FP: 36, MAXIMUM FP: 40
HOOD # 1: 3' 6.00" LONG x 42" WIDE x 24" HIGH
RISER # 1: SIZE: 1 1/2" x 6'
HOOD # 2: 3' 6.00" LONG x 42" WIDE x 24" HIGH
RISER # 2: SIZE: 1 1/2" x 6'
HOOD # 3: 3' 6.00" LONG x 42" WIDE x 24" HIGH
RISER # 3: SIZE: 1 1/2" x 6'
HOOD # 4: 3' 6.00" LONG x 42" WIDE x 24" HIGH
RISER # 4: SIZE: 1 1/2" x 6'
HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25' IN LENGTH.
MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

- LEGEND - FIRE CABINET TANK SYSTEM**
- 1 4 GALLON TANK
 - 2 PRIMARY ACTUATOR RELEASE
 - 3 SECONDARY ACTUATOR RELEASE
 - 4 PRESSURE SUPERVISION SWITCH
 - 5 PRIMARY HOSE ASSEMBLY
 - 6 SECONDARY HOSE ASSEMBLY
 - 7 REMOTE MANUAL ACTUATION DEVICE

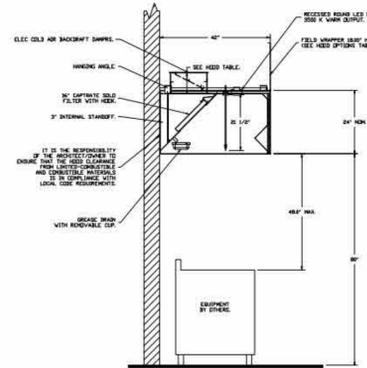


NOTES

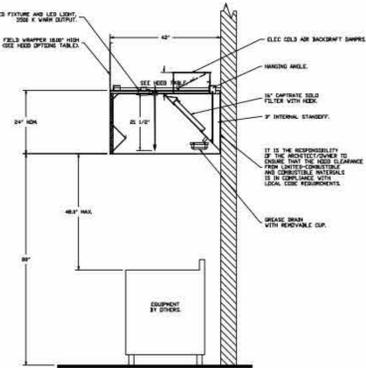
- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
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- DL-F NOZZLE PART NUMBER REPLACES 3070-3/BH-10-SS

JOB # 6436463
JOB NAME: YORK HIGH SCHOOL
SYSTEM SIZE: TANK-SP-2 DESIGN FP: 36, MAXIMUM FP: 40
HOOD # 3: 3' 6.00" LONG x 42" WIDE x 24" HIGH
RISER # 3: SIZE: 1 1/2" x 6'
HOOD # 4: 3' 6.00" LONG x 42" WIDE x 24" HIGH
RISER # 4: SIZE: 1 1/2" x 6'
HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25' IN LENGTH.
MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

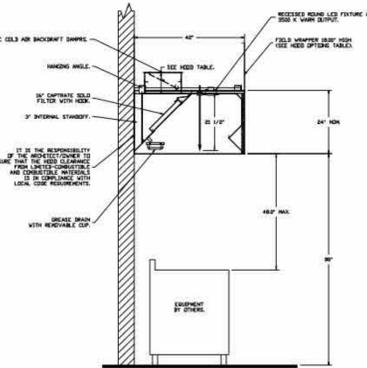
- LEGEND - FIRE CABINET TANK SYSTEM**
- 1 4 GALLON TANK
 - 2 PRIMARY ACTUATOR RELEASE
 - 3 SECONDARY ACTUATOR RELEASE
 - 4 PRESSURE SUPERVISION SWITCH
 - 5 PRIMARY HOSE ASSEMBLY
 - 6 SECONDARY HOSE ASSEMBLY
 - 7 REMOTE MANUAL ACTUATION DEVICE



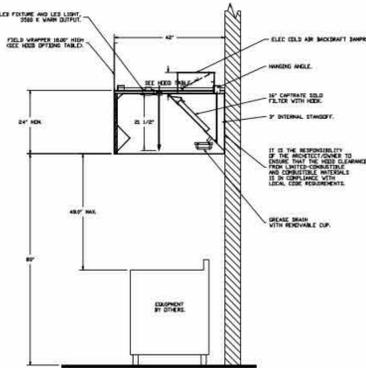
SECTION VIEW - MODEL 4242ND-2-100MC HOOD - 41



SECTION VIEW - MODEL 4242ND-2-100MC HOOD - 42



SECTION VIEW - MODEL 4242ND-2-100MC HOOD - 43



SECTION VIEW - MODEL 4242ND-2-100MC HOOD - 44



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date	Revision Description

Drawn by: MSJ

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	VOLTS	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	GROUP 1	1	DURSFA	CAPTIVEAIRE	1224	0.750	1051	TEAD-ECH	0.750	0.2290	1	115	8.9	387 FPM	96	6.9
2	GROUP 2	1	DURSFA	CAPTIVEAIRE	1224	0.750	1051	TEAD-ECH	0.750	0.2290	1	115	8.9	387 FPM	96	6.9

DOAS/RTU FAN SCHEDULE - JOB#6436463

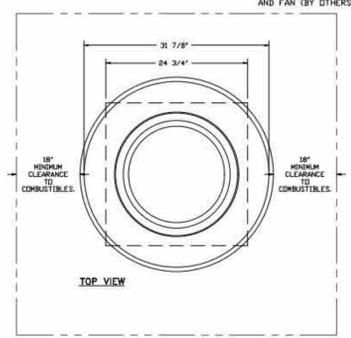
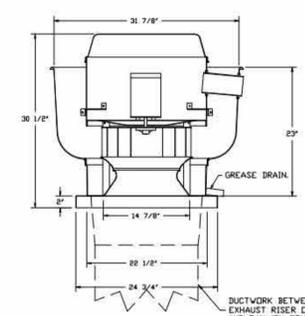
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLD/VER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	SDNES	ELECTRICAL INFORMATION		COOLING INFORMATION		REHEAT INFORMATION		GAS HEAT INFORMATION		HEAT PUMP INFORMATION		NOTES												
																	MCA	MOCP	DISCHARGE DB	DISCHARGE WB	DISCHARGE DB	DISCHARGE WB	DISCHARGE DB	DISCHARGE WB	DISCHARGE DB	DISCHARGE WB		DISCHARGE DB	DISCHARGE WB	DISCHARGE DB	DISCHARGE WB	DISCHARGE DB	DISCHARGE WB						
3	GROUP 1 MUA	1	CASRTU-1150-13-6T	CAPTIVEAIRE	13P-1	0	1150	1150	1369	0.500	1.00	3	208	30.5A	35A	89.6°F	72.7°F	49.9°F	49.6°F	49.4°F	79.9 MBH	48.2 MBH	19.5	9.2	70.0°F	58.7°F	26.1 MBH	56 MBH	28.9 LBS/HR	NATURAL	134864	109240	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 2 MUA	1	CASRTU-1150-13-6T	CAPTIVEAIRE	13P-1	0	1150	1150	1369	0.500	1.00	3	208	30.5A	35A	89.6°F	72.7°F	49.9°F	49.6°F	49.4°F	79.9 MBH	48.2 MBH	19.5	9.2	70.0°F	58.7°F	26.1 MBH	56 MBH	28.9 LBS/HR	NATURAL	134864	109240	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

NOTES:
 1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL.
 2. DIRECT DRIVE FLESH 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. ECM 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, LEVAP 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 CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDES THROUGH DIGITAL INTERFACE.
 12. FULLY MODULATING HOT GAS REHEAT.
 13. FACTORY INSTALLED COMPRESSOR SOUND BLANKET.
 14. 1" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-4.3 INSULATION-MINIMUM 24GA EXTERIOR W/ 18GA BASE.
 15. DOWN DISCHARGE/NO RETURN.

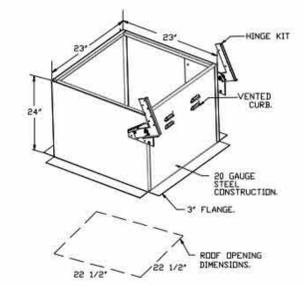
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION		
1	GROUP 1	1	GREASE BOX		
		1	UPBLAST FAN WHEEL ACCESS PORT		
		1	3 YEAR EXTENDED MOTOR WARRANTY		
		1	FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS		
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPND3 PREVIRE (TECLO MOTOR), CCV ROTATION		
		1	2 YEAR PARTS WARRANTY		
		2	GROUP 2	1	GREASE BOX
				1	UPBLAST FAN WHEEL ACCESS PORT
				1	3 YEAR EXTENDED MOTOR WARRANTY
				1	FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS
1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPND3 PREVIRE (TECLO MOTOR), CCV ROTATION				
1	2 YEAR PARTS WARRANTY				
3	GROUP 1 MUA			1	INLET PRESSURE GAUGE, 0-35"
				1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
				1	INTAKE FIRESTAT SET TO 135°F
				1	FREEZE/STAT
		1	DISCHARGE FIRESTAT SET TO 240°F		
		1	SHIP LOOSE GAS STRAINER 3/4"		
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED		
		1	2" MERV 13 FILTERS FOR RTU (QTY. 4)		
		1	2" MERV 8 FILTERS FOR RTU (QTY. 4)		
		1	DVERHEAT STAT		
4	GROUP 2 MUA	1	RTU DOWN DISCHARGE		
		1	RTU FIXED 100% DA INTAKE CONTROL		
		1	RTU NO RETURN - 100% DA		
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR		
		1	RTU CURB DUCT HANGER		
		1	24VAC FIRE INPUT		
		1	OCCUPIED SCHEDULING		
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI		
		1	RTU CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX		
		1	6 TON MODULATING COILING OPTION WITH HEAT PUMP, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS		

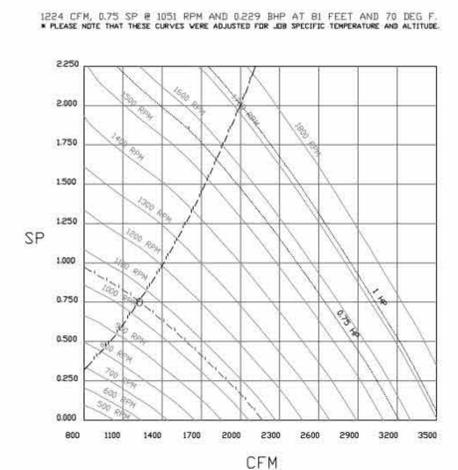
FANS #1 (GROUP 1) #2 (GROUP 2) - DURSFA EXHAUST FAN



- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
 - ROOF MOUNTED FANS.
 - RESTAURANT MODEL.
 - UL795 AND UL768 AND UL5-5645
 - VARIABLE SPEED CONTROL.
 - INTERNAL WIRING.
 - THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
 - HIGH HEAT OPERATOR SHIP (44PC).
 - GREASE CLASSIFICATION TESTING.
 - NEMA 3R SAFETY DISCONNECT SWITCH.
- NORMAL TEMPERATURE TEST:**
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETRIMENTARY EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.
- ABNORMAL FLAME-UP TEST:**
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 400°F (204°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.
- OPTIONS:**
- GREASE BOX.
 - UPBLAST FAN WHEEL ACCESS PORT.
 - 3 YEAR EXTENDED MOTOR WARRANTY.
 - FAN BASE CERAMIC SEAL - SHIP LOOSE.
 - FOR GREASE DUCTS.
 - ECM WIRING PACKAGE - PWM SIGNAL FROM ECPND3 PREVIRE (TECLO MOTOR), CCV ROTATION.
 - 2 YEAR PARTS WARRANTY.



FANS #1 (GROUP 1) #2 (GROUP 2) - EXHAUST PERFORMANCE CURVES.



FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST	SUPPLY
1	GROUP 1	YES	
2	GROUP 2	YES	

CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	GROUP 1	41 LBS	CURB	23,000\"/>
2	# 2	GROUP 1	41 LBS	CURB	23,000\"/>
3	# 3	GROUP 1 MUA	113 LBS	CURB	41,000\"/>
4	# 4	GROUP 1 MUA	113 LBS	CURB	41,000\"/>

FAN SOUND DATA

FAN UNIT NO	TAG	MOTOR	SOUND DATA				OCTAVE BAND SOUND DATA							
			LVA	SDNES # 5 FT	DBA # 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ
1	GROUP 1	EXHAUST	67.3	6.87621421135438	55.8	5	69	71.6	69.4	64.1	61.6	58.1	52.6	46.6
2	GROUP 2	EXHAUST	67.3	6.87621421135438	55.8	5	69	71.6	69.4	64.1	61.6	58.1	52.6	46.6

UNIT SOUND DATA

FAN UNIT NO	TAG	MOTOR	SOUND DATA				OCTAVE BAND SOUND DATA							
			LVA	SDNES # 5 FT	DBA # 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	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

Note: Sound data across operational range. Tested in accordance to AHRI Standard 270/370.

HMI 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



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date	Revision Description

Drawn by: MSJ

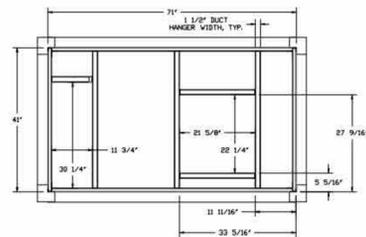
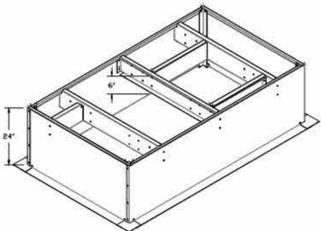
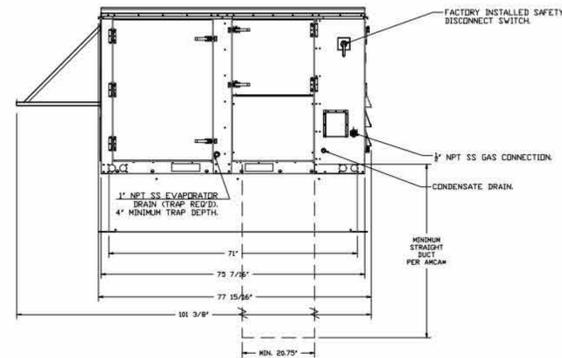
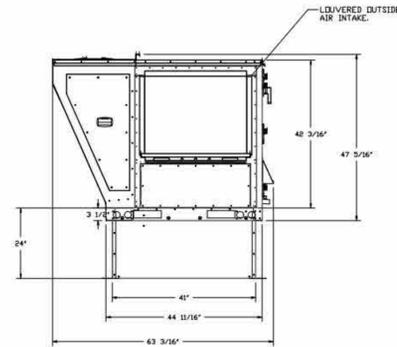
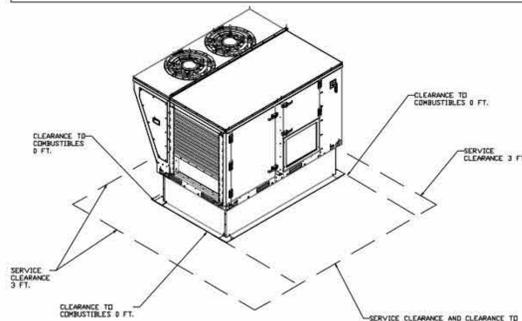
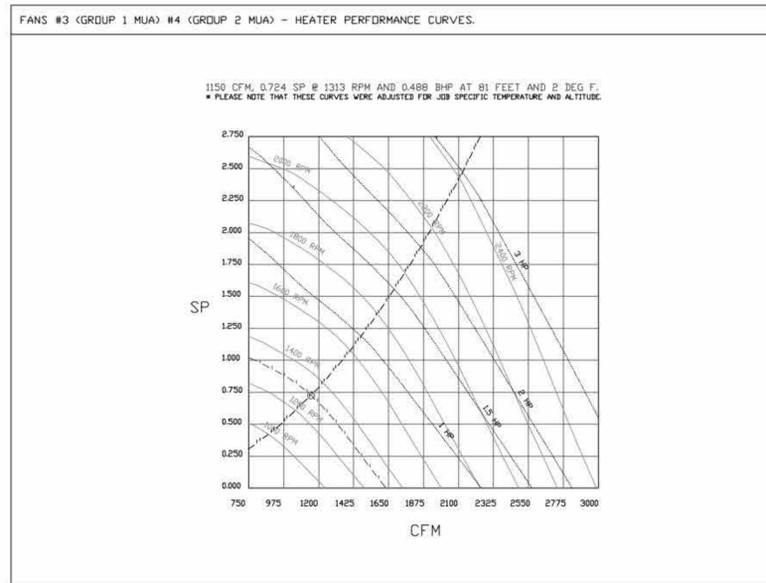
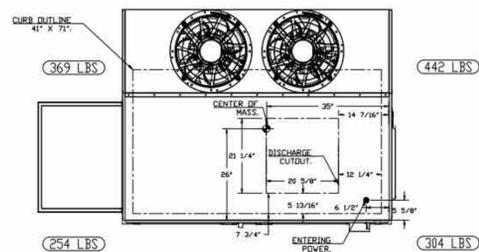
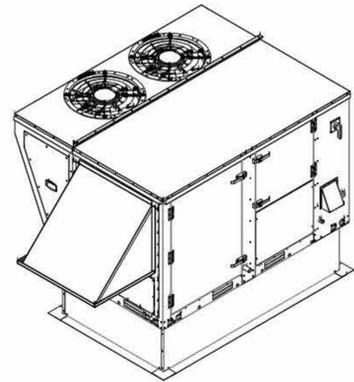
DETAILS

M50-6

FAN #3 (GROUP 1 MUA), #4 (GROUP 2 MUA) - CASRTU1-1150-13-6T HEATER

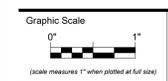
- NOTES:
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
 - (C) INDICATES CORNER WEIGHT.
 - ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
 - CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

*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" x 21.5".



TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

- 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.
- 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 PROVIDED FOR EACH SCREW LOCATION.



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date	Revision Description

Drawn by: MSJ

DETAILS

KITCHEN MAKE UP UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	SERVICE	SUPPLY AIRFLOW (CFM)	ESP (IN.WG)	GAS HEAT			COOLING INFORMATION				ELECTRICAL			WEIGHT (LBS)	NOTES			
						FUEL TYPE	TEMPERATURE RISE (DEG.F)	INPUT (MBH)	OUTPUT (MBH)	OUTSIDE AIR DB (DEG F)	OUTSIDE AIR WB (DEG F)	LEAVING DB (DEG F)	LEAVING WB (DEG F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)			POWER (HP)	VOLTAGE	PHASE
MUA-1	CaptiveAire	CASRTU1-150-13-6T	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	
MUA-2	CaptiveAire	CASRTU1-150-13-6T	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

TAG	MANUFACTURER	MODEL	SERVICE	AIR FLOW (CFM)	ESP (IN.WG)	RPM	SONES	DRIVE	ELECTRICAL				NOTES
									POWER (HP)	VOLTAGE	PHASE	FLA	
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

TAG	MANUFACTURER	MODEL	SERVICE	DIMENSIONS (WxHxD) (IN)	EXHAUST			MOUNTING HEIGHT AFF (IN)	MATERIAL	LIGHTS (QTY) TYPE	DAMPER AT HOOD COLLAR	NOTES
					COLLAR (QTY)	AIR FLOW (CFM)	APD (IN.WG)					
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	

Harriman

YORK HIGH SCHOOL
FAMILY SCIENCES
CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No.	22328
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CONSTRUCTION DOCUMENTS

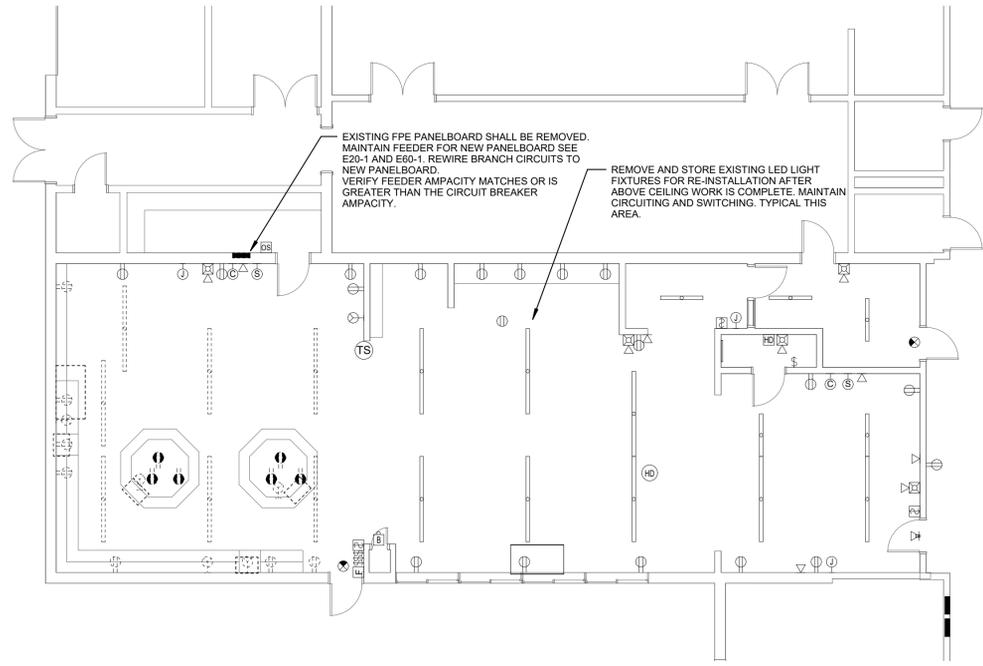
JANUARY 30, 2024

Revision Date	Revision Description

Drawn by: MSJ

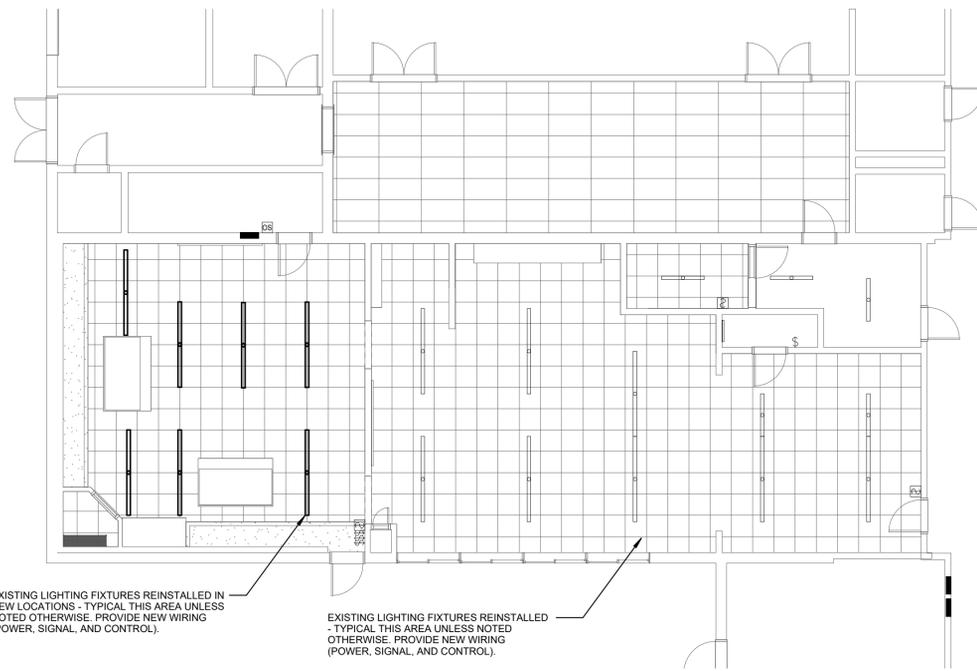
SCHEDULES

M60-1



A3 FIRST FLOOR - ELECTRICAL DEMO

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

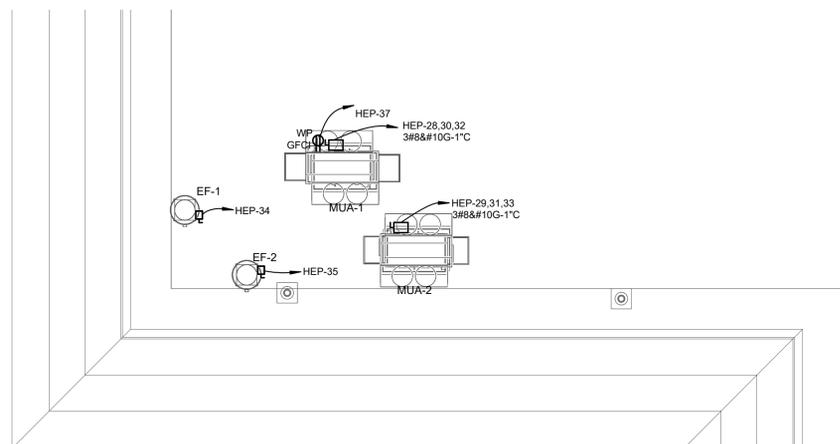


A4 FIRST FLOOR - LIGHTING PLAN

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

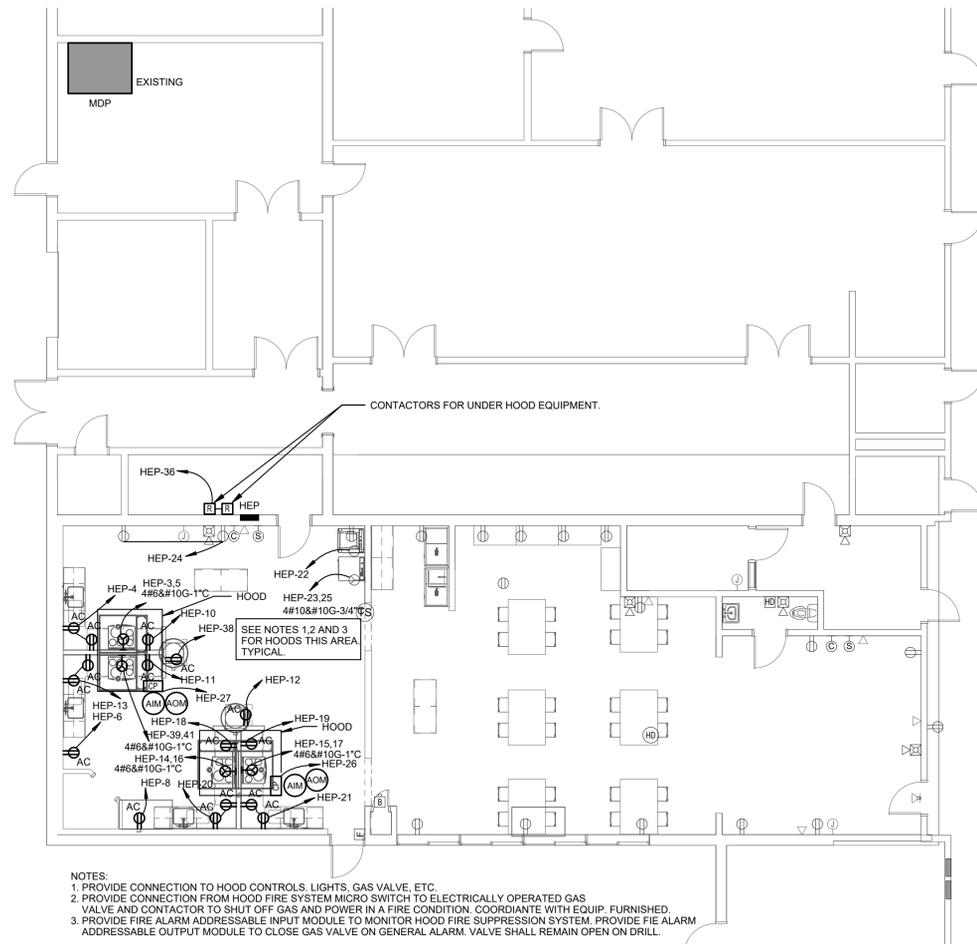
GENERAL NOTES

- 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.



A1 ROOF - POWER PLAN

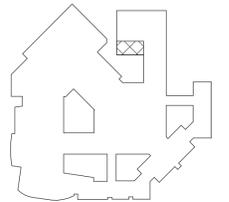
SCALE: 1/8" = 1'-0"



A2 FIRST FLOOR - POWER PLAN

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

Key Plan



Graphic Scale



(Scale measures 1" when plotted at full size)



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: PRA

FIRST FLOOR PLAN

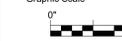
E10-1

YORK HIGH SCHOOL FAMILY SCIENCES CLASSROOM RENOVATION

YORK, MAINE

Harriman Project No. 22328

Graphic Scale



(Scale measures 1" when plotted at full size)



CONSTRUCTION DOCUMENTS

JANUARY 30, 2024

Revision Date Revision Description

Drawn by: PRA

ELECTRICAL SCHEDULES

E60-1

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

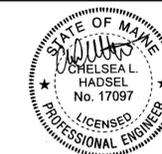
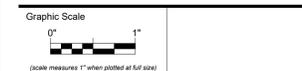
Legend:

ALL NEW OR MODIFIED 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:



CONSTRUCTION DOCUMENTS

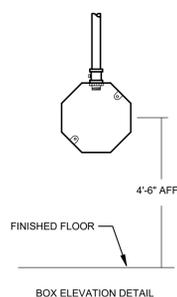
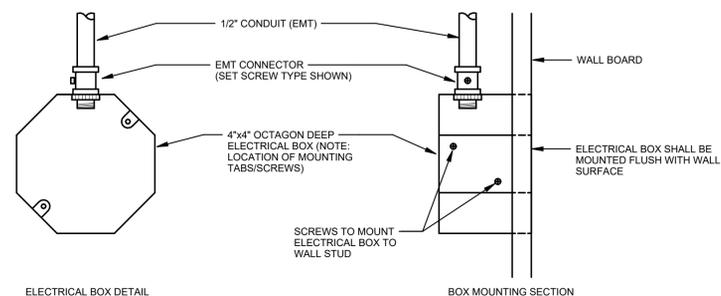
JANUARY 30, 2024

Revision Date Revision Description

Drawn by: PRA

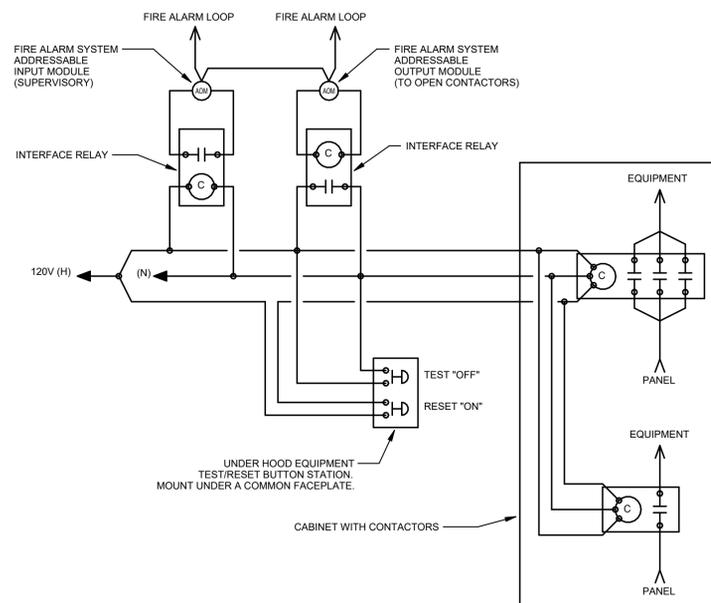
ELECTRICAL DETAILS

E70-1

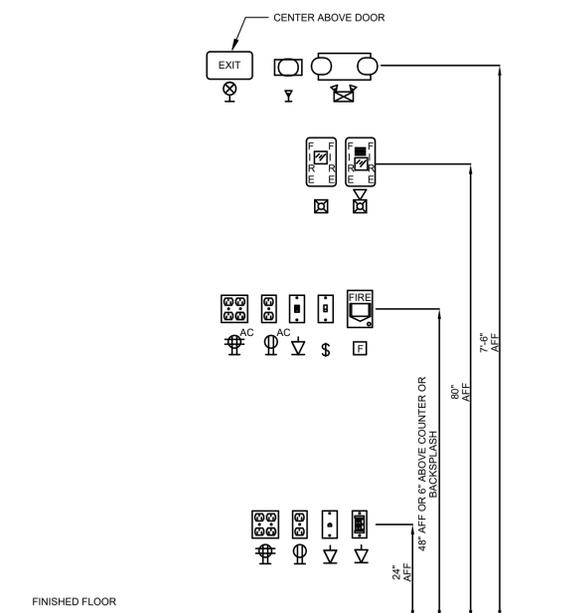


- NOTES:
1. BOX MUST BE A 4"x4" OCTAGON DEEP ELECTRICAL BOX, SECURELY FASTEN TO SIDE OF STUD.
 2. CONDUIT MUST BE 1/2" ELECTRIC METALIC TUBING (EMT).
 3. CONDUIT MUST BE STRAIGHT, CONTAIN ON BENDS AND BE STUBBED 6" ABOVE WALL FRAMING
 4. MOUNTING TABS/SCREWS ON ELECTRICAL BOX MUST BE POSITIONED AT APPROXIMATELY 2 AND 8 O'CLOCK (SEE DETAIL).
 5. PER BOCA INTERNATIONAL MECHANICAL CODE, BOX MUST BE LOCATED AT OR NEAR MEAN OF EGRESS AT A MINIMUM OF 10' AND A MAXIMUM OF 20' FROM THE EXHAUST SYSTEM. THE BOX SHALL BE MOUNTED AT A MINIMUM OF 4'-6" TO A MAXIMUM OF 5'-0" FROM THE CENTERLINE OF THE BOX TO THE FINISHED FLOOR.
 6. CONDUIT MUST BE SECURELY FASTENED TO THE ELECTRICAL BOX USING EMT CONNECTOR WITH SET SCREW OR COMPRESSION TYPE CONNECTION.

A1 ANSUL SYSTEM MANUAL PULL BOX DETAIL
SCALE: 1 1/2" = 1'-0"



A2 UNDER HOOD KITCHEN EQUIPMENT SHUTDOWN DETAIL
SCALE: 1 1/2" = 1'-0"



A3 TYPICAL INTERIOR MOUNTING HEIGHTS
SCALE: 1 1/2" = 1'-0"