

edm

architecture
•
engineering
•
management

East Windsor Middle School Nurse's Suite

38 Main Street
Broad Brook, CT 06016

issued for: permit & construction
date: february 11, 2014
project no. : ews-3612

Architect :

edm
45 south main street
second floor
unionville, ct 06085

contact: Tim Eagles, AIA
(860) 233-8282
(860) 404-0846 fax
teagles@edm-ae.com

Mechanical & Plumbing Engineer:

edm
166 east street
pittsfield, ma 01201

contact: Charles Stead, P.E.
(413) 443-2374
(413) 443-6057 fax
cstead@edm-ae.com

Electrical Engineer:

edm
166 east street
pittsfield, ma 01201

contact: Ernie Malafronte, P.E.
(413) 443-2374
(413) 443-6057 fax
emalafronte@edm-ae.com

A

B

C

D

abbreviations	graphic symbols	mounting heights	general notes																																																															
<p>A/C AIR CONDITIONING</p> <p>ACOUS. ACOUSTICAL</p> <p>A.C.T. ACOUSTICAL CEILING TILE</p> <p>A.C.P. ACOUSTICAL CEILING PANEL</p> <p>A.D. AREA DRAIN</p> <p>ADJ. ADJUSTABLE, ADJACENT</p> <p>A.F.F. ABOVE FINISH FLOOR</p> <p>AHU AIR HANDLING UNIT</p> <p>ALT. ALTERNATE</p> <p>ALUM. ALUMINUM</p> <p>APPROX. APPROXIMATE</p> <p>ARCH. ARCHITECTURAL</p> <p>ASPH. ASPHALT(TIC)</p> <p>B.C. BRICK COURSE</p> <p>BD. BOARD</p> <p>BIT. BITUMINOUS</p> <p>BLDG. BUILDING</p> <p>BLKG. BLOCKING</p> <p>B/. BOTTOM OF</p> <p>B.R. BED ROOM</p> <p>BRG. BEARING</p> <p>BSMT. BASEMENT</p> <p>BUR. BUILT-UP ROOFING</p> <p>C.B. CATCH BASIN</p> <p>C.F. CUBIC FOOT</p> <p>C.G. CORNER GUARD</p> <p>CIRC. CIRCUMFERENCE</p> <p>C. CENTERLINE</p> <p>C.J. CONTROL JOINT</p> <p>CLG. CEILING</p> <p>C.L.L. CONTRACT LIMIT LINE</p> <p>CLR. CLEAR(ANCE)</p> <p>CM. CENTIMETER(S)</p> <p>CMU. CONCRETE MASONRY UNIT</p> <p>C.O. CLEANOUT</p> <p>COL. COLUMN</p> <p>CONC. CONCRETE</p> <p>CONT. CONTINUOUS (CONTINUE)</p> <p>CPT. CARPET</p> <p>C. COURSE(S)</p> <p>C.T. CERAMIC TILE</p> <p>CTR. CENTER</p> <p>C.U.H. CABINET UNIT HEATER</p> <p>C.Y. CUBIC YARD</p> <p>DAT. DATUM</p> <p>DBL. DOUBLE</p> <p>DEPT. DEPARTMENT</p> <p>DET. DETAIL</p> <p>D.F. DRINKING FOUNTAIN</p> <p>DIAG. DIAGONAL</p> <p>DIAM. DIAMETER</p> <p>DIFF. DIFFUSER</p> <p>DIM. DIMENSION</p> <p>DISP. DISPENSER</p> <p>DN. DOWN</p> <p>DR. DOOR</p> <p>D.W. DISHWASHER</p> <p>DWG. DRAWING</p> <p>E. EAST</p> <p>EA. EACH</p> <p>E.F. EXHAUST FAN</p> <p>E.J. EXPANSION JOINT</p> <p>EL. ELEVATION</p> <p>ELEC. ELECTRIC(AL)</p> <p>ELEV. ELEVATOR</p> <p>EMERG. EMERGENCY</p> <p>E.P. ELECTRIC PANEL BOARD</p> <p>EQ. EQUAL</p> <p>EQUIP. EQUIPMENT</p> <p>E.W.C. ELECTRIC WATER COOLER</p> <p>EXIST. EXISTING</p> <p>EXP. EXPANSION</p> <p>EXT. EXTERIOR</p> <p>F.A. FIRE ALARM</p> <p>F.C. FIRE CODE</p> <p>F.D. FLOOR DRAIN</p> <p>F.E. FIRE EXTINGUISHER</p> <p>F.E.C. FIRE EXTINGUISHER CABINET</p> <p>F.F. FINISH FLOOR</p> <p>F.G. FLOAT GLASS</p> <p>FIN. FINISH(ED)</p> <p>FLR. FLOOR</p> <p>F/. FACE OF</p> <p>F.O.F. FACE OF FOUNDATION</p> <p>F.O.S. FACE OF STUD</p> <p>FRT. FIRE-RETARDANT</p> <p>FT. FEET, FOOT</p> <p>FTG. FOOTING</p> <p>FURR. FURRED(ING)</p> <p>GALV. GALVANIZED</p> <p>G.B. GRAB BAR</p> <p>GWB. GYPSUM WALL BOARD</p> <p>GYP. GYPSUM</p> <p>H.B. HOSE BIBB</p> <p>H/C. HANDICAPPED</p> <p>H.D. HEAVY DUTY</p> <p>H.D.W. HARDWOOD</p> <p>H.W.R. HARDWARE</p> <p>HT. HEIGHT</p> <p>H.M. HOLLOW METAL</p> <p>HORIZ. HORIZONTAL</p> <p>HR. HOUR(S)</p> <p>HTG. HEATING</p> <p>HVAC. HEATING, VENTILATION, AIR CONDITIONING</p> <p>H.W.H. HOT WATER HEATER</p> <p>I.D. INSIDE DIAMETER</p> <p>IG. INSULATED GLASS</p> <p>INSUL. INSULATE(ION)</p> <p>INT. INTERIOR</p> <p>JAN. JANITOR</p> <p>J.C. JANITOR'S CLOSET</p> <p>JT. JOINT</p> <p>K.D. KNOCK DOWN</p> <p>K.O. KNOCK OUT</p> <p>KPL. KICKPLATE</p> <p>LAM. LAMINATED</p> <p>LAV. LAVATORY</p> <p>LB. POUNDS</p> <p>LBL. LABEL</p> <p>L.F. LINEAR FEET</p> <p>L.G. LARGE</p> <p>L.H. LEFT HAND</p> <p>LKR. LOCKER(S)</p> <p>LSG. LAMINATED SAFETY GLASS LIGHT</p> <p>LTG. LIGHTING</p> <p>M. METER</p> <p>MACH. MACHINE</p> <p>MAINT. MAINTENANCE</p> <p>MATL. MATERIAL</p> <p>MAX. MAXIMUM</p> <p>MDO. MEDIUM DENSITY OVERLAY</p> <p>M.F. MECHANICAL/ELECTRICAL</p> <p>MECH. MECHANICAL</p> <p>MED. MEDIUM</p> <p>MEZZ. MEZZANINE</p> <p>MFG. MANUFACTURER</p> <p>MICRO. MICROWAVE</p> <p>MIN. MINIMUM</p> <p>MISC. MISCELLANEOUS</p> <p>MM. MILLIMETER</p> <p>M.O. MASONRY OPENING</p> <p>MTD. MOUNTED</p> <p>N. NORTH</p> <p>N/A. NOT APPLICABLE</p> <p>N.I.C. NOT IN CONTRACT</p> <p>NO. NUMBER</p> <p>NOM. NOMINAL</p> <p>N.T.S. NOT TO SCALE</p> <p>O.A. OUTSIDE AIR</p> <p>O.C. ON CENTER</p> <p>OCCUP. OCCUPANCY</p> <p>O.D. OUTSIDE DIAMETER</p> <p>O.H. OPPOSITE HAND</p> <p>OPNG. OPENING</p> <p>OZ. OUNCE</p> <p>P.A. PUBLIC ADDRESS</p> <p>P.B. PANIC BAR</p> <p>PBD. PARTICLE BOARD</p> <p>P.C.F. POUNDS PER CUBIC FOOT</p> <p>PERF. PERFORATED</p> <p>PERIM. PERIMETER</p> <p>P.L. PROPERTY LINE</p> <p>PLAM. PLASTIC LAMINATE</p> <p>P.L.F. POUNDS PER LINEAL FOOT</p> <p>PLUMB. PLUMBING</p> <p>PR. PAIR</p> <p>PREFAB. PREFABRICATE(D)</p> <p>P.S.F. POUNDS PER SQUARE FOOT</p> <p>P.T. PRESERVATIVE TREATED</p> <p>PTD. PAINTED</p> <p>PT. PAINT</p> <p>P.V.C. POLYVINYL CHLORIDE</p> <p>QT. QUARRY TILE</p> <p>R. RADIUS, RISER</p> <p>R.D. ROOF DRAIN</p> <p>REC. RECESSED</p> <p>REF. REFERENCE</p> <p>R.E.F. ROOF EXHAUST FAN</p> <p>REF. REFRIGERATOR</p> <p>REV. REVISION, REVISED</p> <p>R.H. RIGHT HAND</p> <p>RM. ROOM</p> <p>RO. ROUGH OPENING</p> <p>R.W.L. RAINWATER LEADER</p> <p>S. SOUTH</p> <p>S&P. SHELF AND POLE</p> <p>SAN. SANITARY</p> <p>S.C. SOLID CORE</p> <p>SCHED. SCHEDULE</p> <p>SECT. SECTION</p> <p>S.F.T. SQUARE FOOT</p> <p>S.H. SPRINKLER HEAD</p> <p>SIM. SIMILAR</p> <p>SM. SMALL</p> <p>S.O.G. SLAB ON GRADE</p> <p>SP. SPANDREL</p> <p>SPEC. SPECIFICATION</p> <p>SQ. SQUARE</p> <p>S.S. STAINLESS STEEL</p> <p>STD. STANDARD</p> <p>S.U.G.B. SWING UP GRAB BAR</p> <p>SUSP. SUSPENDED</p> <p>T. TREAD</p> <p>T/. TOP OF</p> <p>TEMP. TEMPORARY(ERATURE)</p> <p>TG. TEMPERED GLASS</p> <p>T&G. TONGUE AND GROOVE</p> <p>THRES. THRESHOLD</p> <p>TI. TEMPERED INSULATING</p> <p>TV. TELEVISION</p> <p>TYP. TYPICAL</p> <p>U/C. UNDER COUNTER</p> <p>U.O.N. UNLESS OTHERWISE NOTED</p> <p>VAR. VARIES</p> <p>VCT. VINYL COMPOSITION TILE</p> <p>V.I.F. VERIFY IN FIELD</p> <p>VENT. VENTILATION</p> <p>VERT. VERTICAL</p> <p>V.T.R. VENT THROUGH ROOF</p> <p>V.W.C. VINYL WALL COVERING</p> <p>W. WEST</p> <p>W/. WITH</p> <p>WD. WOOD</p> <p>W.F. WIDE FLANGE</p> <p>WM. WIRE MESH</p> <p>W/O. WITHOUT</p> <p>WP. WATERPROOF(ING)</p> <p>WSTRP. WEATHER-STRIP</p> <p>WT. WEIGHT</p> <p>W.T.W. WALL TO WALL</p> <p>W.W.M. WELDED WIRE MESH</p>	<p>ROOM NAME AND NUMBER</p> <p>ROOM ROOM XXX</p> <p>ELEVATION MARKER</p> <p>ELEVATION DESCRIPTION</p> <p>DETAIL REFERENCE</p> <p>DETAIL NO. X XXX</p> <p>DRAWING NO. X XXX</p> <p>DETAIL NO. X XXX</p> <p>DRAWING NO. X XXX</p> <p>DETAIL ON DRAWING</p> <p># title scale</p> <p>NUMBER & LETTER</p> <p>BUILDING SECTION</p> <p>SECTION LETTER X XXX</p> <p>DRAWING NO. X XXX</p> <p>WALL SECTION</p> <p>WALL SECTION NO. X XXX</p> <p>DRAWING NO. X XXX</p> <p>EXTERIOR ELEVATION</p> <p>ELEVATION LETTER X XXX</p> <p>DRAWING NO. X XXX</p> <p>INTERIOR ELEVATION</p> <p>DRAWING NO. X XXX</p> <p>ELEVATION NO. X XXX</p> <p>DEMOLITION KEYNOTE</p> <p>KEYNOTE #</p> <p>MILLWORK REFERENCE</p> <p>MATERIAL REFERENCE</p> <p>EQUIPMENT REFERENCE</p> <p>SEE SPECIFICATION 101</p> <p>DIMENSION (TO FACE) DIMENSION (TO CENTERLINE)</p> <p>M.O. (MASONRY OPENING) DIMENSION =</p> <p>NEW WALL</p> <p>EXISTING WALL</p> <p>NEW DOOR</p> <p>EXISTING DOOR</p> <p>PARTITION TYPE WALL TYPE</p> <p>TOILET ACCESSORY NUMBER</p> <p>WINDOW/LOUVER TYPE (LETTER & NUMBER DESIGNATION)</p> <p>W - WINDOW W1</p> <p>L - LOUVER L1</p> <p>HMF - HOLLOW METAL FRAME</p> <p>REVISION</p> <p>ALIGN</p> <p>WORKING POINT</p>	<p>TOILET / GRAB BARS</p> <p>SINK</p> <p>TRASH RECEPTACLE</p> <p>PAPER TOWEL DISPENSER</p> <p>URINAL</p> <p>TOILET PARTITION</p> <p>DOOR SIGNAGE</p> <p>CHANGING STATION</p> <p>FIRE EXTINGUISHER CABINET (40 lb MAX.)</p> <p>NOTES: 1. ALL DIMENSIONS ARE IN INCHES.</p>	<p>1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT A THOROUGH FIELD REVIEW OF THE PROJECT TO DETERMINE SCOPE OF NEW CONSTRUCTION REQUIRED TO COMPLETE THE WORK.</p> <p>2. THE CONTRACTOR IS TO NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING FIELD CONDITIONS AND THE CONTRACT DOCUMENTS PRIOR TO BID.</p> <p>3. ALL DIMENSIONS ARE FROM FACE OF STUD, FACE OF MASONRY, OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE.</p> <p>4. ALL NOTES AND DIMENSIONS DESIGNATED "TYPICAL" APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.</p> <p>5. DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED.</p>																																																															
<p>project location</p>			<p>list of drawings</p> <table border="1"> <thead> <tr> <th>no.</th> <th>name</th> <th>issue</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>COVER</td> <td>02.11.2014</td> </tr> <tr> <td>G-101</td> <td>GENERAL INFORMATION SHEET</td> <td>02.11.2014</td> </tr> <tr> <td colspan="3">ARCHITECTURAL</td> </tr> <tr> <td>A-101</td> <td>FLOOR PLANS</td> <td>02.11.2014</td> </tr> <tr> <td>A-901</td> <td>FINISH & DOOR SCHEDULES, NOTES, & DETAILS</td> <td>02.11.2014</td> </tr> <tr> <td colspan="3">MECHANICAL</td> </tr> <tr> <td>H-001</td> <td>HVAC NOTES AND SCHEDULES</td> <td>02.11.2014</td> </tr> <tr> <td>H-101</td> <td>NEW HVAC EQUIPMENT & DUCTWORK PLAN</td> <td>02.11.2014</td> </tr> <tr> <td>H-102</td> <td>HVAC REFRIGERANT & CONDENSATE DRAIN PIPING PLAN</td> <td>02.11.2014</td> </tr> <tr> <td>H-103</td> <td>EXHAUST HOOD AND EQUIPMENT PLAN</td> <td>02.11.2014</td> </tr> <tr> <td>H-104</td> <td>EXHAUST HOOD AND EQUIPMENT PLAN</td> <td>02.11.2014</td> </tr> <tr> <td>H-105</td> <td>EXHAUST HOOD AND EQUIPMENT PLAN</td> <td>02.11.2014</td> </tr> <tr> <td>H-106</td> <td>EXHAUST HOOD AND EQUIPMENT PLAN</td> <td>02.11.2014</td> </tr> <tr> <td>H-201</td> <td>HVAC DETAILS</td> <td>02.11.2014</td> </tr> <tr> <td colspan="3">PLUMBING</td> </tr> <tr> <td>P-101</td> <td>PLUMBING PLANS</td> <td>02.11.2014</td> </tr> <tr> <td>P-201</td> <td>PLUMBING NOTES, DETAILS & SCHEDULES</td> <td>02.11.2014</td> </tr> <tr> <td colspan="3">ELECTRICAL</td> </tr> <tr> <td>E-001</td> <td>ELECTRICAL NOTES & LEGEND</td> <td>02.11.2014</td> </tr> <tr> <td>E-101</td> <td>ELECTRICAL PLANS</td> <td>02.11.2014</td> </tr> </tbody> </table>	no.	name	issue	CO	COVER	02.11.2014	G-101	GENERAL INFORMATION SHEET	02.11.2014	ARCHITECTURAL			A-101	FLOOR PLANS	02.11.2014	A-901	FINISH & DOOR SCHEDULES, NOTES, & DETAILS	02.11.2014	MECHANICAL			H-001	HVAC NOTES AND SCHEDULES	02.11.2014	H-101	NEW HVAC EQUIPMENT & DUCTWORK PLAN	02.11.2014	H-102	HVAC REFRIGERANT & CONDENSATE DRAIN PIPING PLAN	02.11.2014	H-103	EXHAUST HOOD AND EQUIPMENT PLAN	02.11.2014	H-104	EXHAUST HOOD AND EQUIPMENT PLAN	02.11.2014	H-105	EXHAUST HOOD AND EQUIPMENT PLAN	02.11.2014	H-106	EXHAUST HOOD AND EQUIPMENT PLAN	02.11.2014	H-201	HVAC DETAILS	02.11.2014	PLUMBING			P-101	PLUMBING PLANS	02.11.2014	P-201	PLUMBING NOTES, DETAILS & SCHEDULES	02.11.2014	ELECTRICAL			E-001	ELECTRICAL NOTES & LEGEND	02.11.2014	E-101	ELECTRICAL PLANS	02.11.2014
no.	name	issue																																																																
CO	COVER	02.11.2014																																																																
G-101	GENERAL INFORMATION SHEET	02.11.2014																																																																
ARCHITECTURAL																																																																		
A-101	FLOOR PLANS	02.11.2014																																																																
A-901	FINISH & DOOR SCHEDULES, NOTES, & DETAILS	02.11.2014																																																																
MECHANICAL																																																																		
H-001	HVAC NOTES AND SCHEDULES	02.11.2014																																																																
H-101	NEW HVAC EQUIPMENT & DUCTWORK PLAN	02.11.2014																																																																
H-102	HVAC REFRIGERANT & CONDENSATE DRAIN PIPING PLAN	02.11.2014																																																																
H-103	EXHAUST HOOD AND EQUIPMENT PLAN	02.11.2014																																																																
H-104	EXHAUST HOOD AND EQUIPMENT PLAN	02.11.2014																																																																
H-105	EXHAUST HOOD AND EQUIPMENT PLAN	02.11.2014																																																																
H-106	EXHAUST HOOD AND EQUIPMENT PLAN	02.11.2014																																																																
H-201	HVAC DETAILS	02.11.2014																																																																
PLUMBING																																																																		
P-101	PLUMBING PLANS	02.11.2014																																																																
P-201	PLUMBING NOTES, DETAILS & SCHEDULES	02.11.2014																																																																
ELECTRICAL																																																																		
E-001	ELECTRICAL NOTES & LEGEND	02.11.2014																																																																
E-101	ELECTRICAL PLANS	02.11.2014																																																																
<p>design by: law</p> <p>drawn by: law</p> <p>checked by: tse</p> <p>approved by:</p>			<p>project location</p> <p>East Windsor Middle School Nurse's Suite</p> <p>38 Main Street Broad Brook, CT</p> <p>keynotes:</p> <p>general information</p> <p>date: 02.11.14</p> <p>project number: ews-3612</p> <p>scale: as noted</p> <p>drawing number:</p>																																																															



edm architecture engineering management

pittsfield, ma unionville, ct

(888) 336-6500 team@edm-ae.com

consultants:

design by: law

drawn by: law

checked by: tse

approved by:

East Windsor Middle School Nurse's Suite

38 Main Street Broad Brook, CT

keynotes:

project north

rev: date: issued for: initials:

general information

date: 02.11.14

project number: ews-3612

scale: as noted

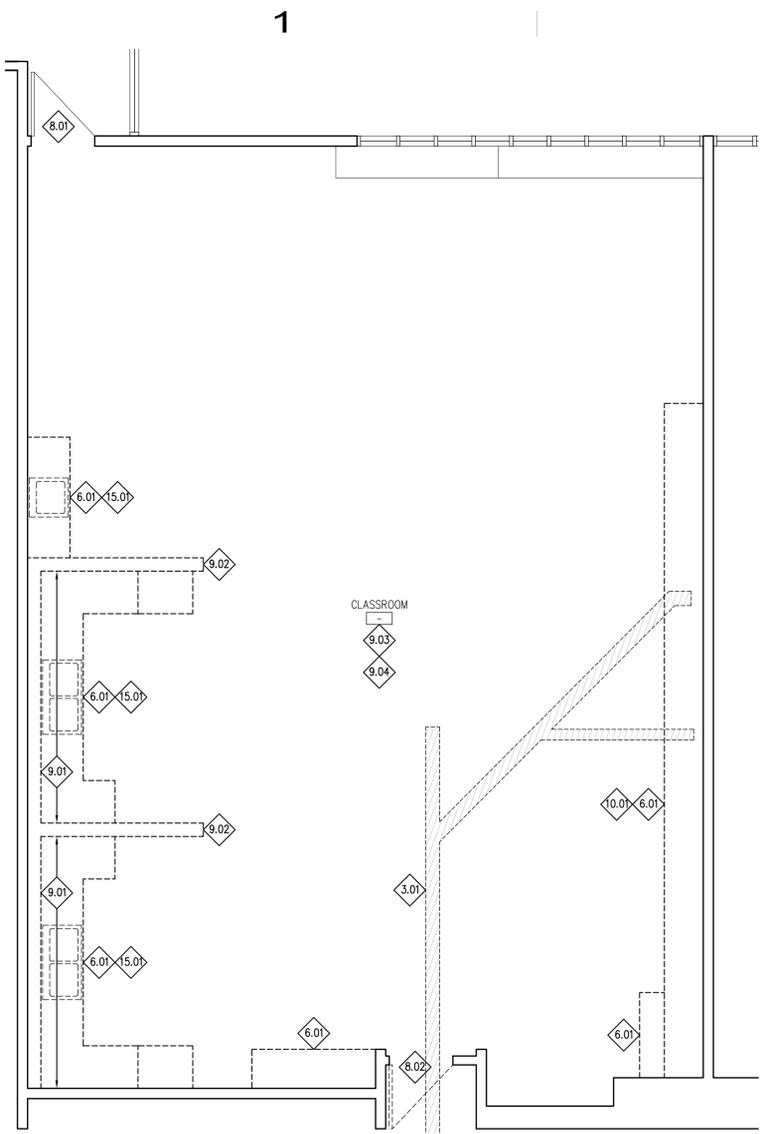
drawing number:

A

B

C

D



C1 demolition plan

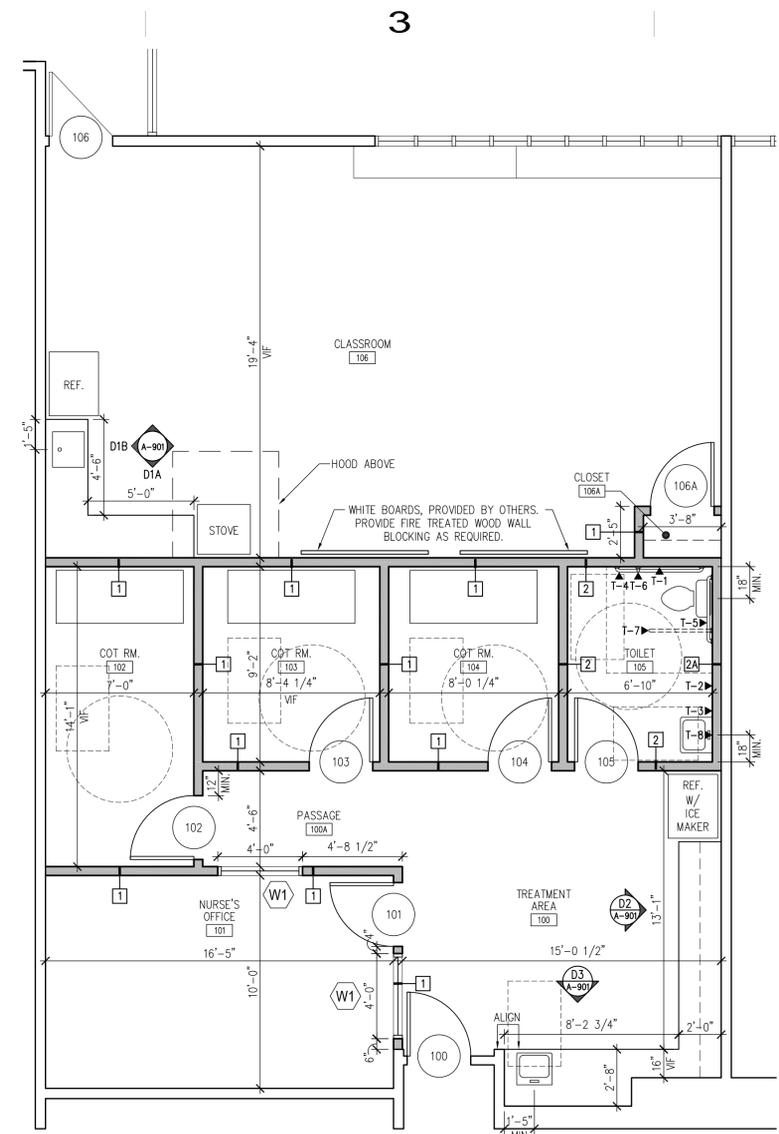
1/4"=1'-0"

general demolition notes:

1. AT ALL DEMOLITION LOCATIONS, PREPARE SURFACE AS REQUIRED FOR SCOPE OF WORK.
2. COORDINATE DEMOLITION WITH MECHANICAL, FIRE PROTECTION, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. REFER TO THESE FOR ADDITIONAL DEMOLITION SCOPE.
3. ITEMS TO BE REMOVED SHOWN DASHED, TYPICAL.
4. DEMOLITION PLAN IS TO PROVIDE A GENERAL PROJECT INTENT. ADDITIONAL DEMOLITION TO BE PERFORMED AT THE DISCRETION OF CONTRACTOR AS REQUIRED BY PROJECT SCOPE.
5. ALL AREAS DESIGNATED AS EXISTING TO REMAIN WITH DEMOLITION RELATING TO MECHANICAL, PLUMBING, AND ELECTRICAL SHALL BE PATCHED TO MATCH ADJACENT MATERIALS AND FINISHES AS REQUIRED.

demolition key

- 3.01** SAW CUT FLOOR AS REQUIRED TO INSTALL NEW PLUMBING. EXCAVATE AS REQUIRED TO CONNECT TO EXISTING PLUMBING. AREAS EXCAVATED BELOW THE FLOOR SLAB SHALL BE BACK FILLED WITH GRANULAR FILL MATERIALS. PLACE A MINIMUM OF 6" CONCRETE REINFORCED WITH WWF 4X4-W2.9XW2.9. APPLY BONDING AGENT TO EXISTING SLAB PRIOR TO PLACING NEW CONCRETE.
- 6.01** REMOVE EXISTING CASEWORK IN ITS ENTIRETY.
- 8.01** EXISTING DOOR, FRAME & HARDWARE TO REMAIN.
- 8.02** REMOVE DOOR, FRAME & HARDWARE IN THEIR ENTIRETY.
- 9.01** REMOVE EXISTING FURRED OUT WALL IN ITS ENTIRETY.
- 9.02** REMOVE EXISTING LOW WALL IN ITS ENTIRETY.
- 9.03** OWNER TO REMOVE EXISTING FLOOR FINISHES (HAZARDOUS MATERIALS). GC TO REMOVE BASE AND PREPARE SUB-FLOOR TO RECEIVE NEW FINISHES.
- 9.04** REMOVE EXISTING SUSPENDED CEILING TILE & GRID, LIGHTING, DIFFUSERS AND ALL CEILING MOUNTED ITEMS.
- 10.01** REMOVE EXISTING CHALKBOARD IN ITS ENTIRETY.
- 15.01** REMOVE EXISTING SINK IN ITS ENTIRETY. SEE PLUMBING DRAWINGS.



C3 floor plan

1/4"=1'-0"

floor plan notes:

1. SEE SHEET GI-101 FOR TYPICAL SYMBOLS AND DRAWING CONVENTIONS.
2. HINGE SIDE OF DOOR TO BE SET 4" OFF FINISH FACE OF ADJACENT WALL UNLESS OTHERWISE NOTED.
3. REPAIR/REPLACE ALL IMPACTED FINISHES TO MATCH EXISTING, WHERE DEVICES HAVE BEEN MOVED OR REMOVED, PATCH WALLS TO MATCH ADJACENT FINISHES AS REQUIRED.
4. SEE DETAIL C4 ON SHEET A-901 FOR WALL TYPES.
5. REFRIGERATORS, STOVE & COTS TO BE PROVIDED BY OWNER.

toilet accessory legend:

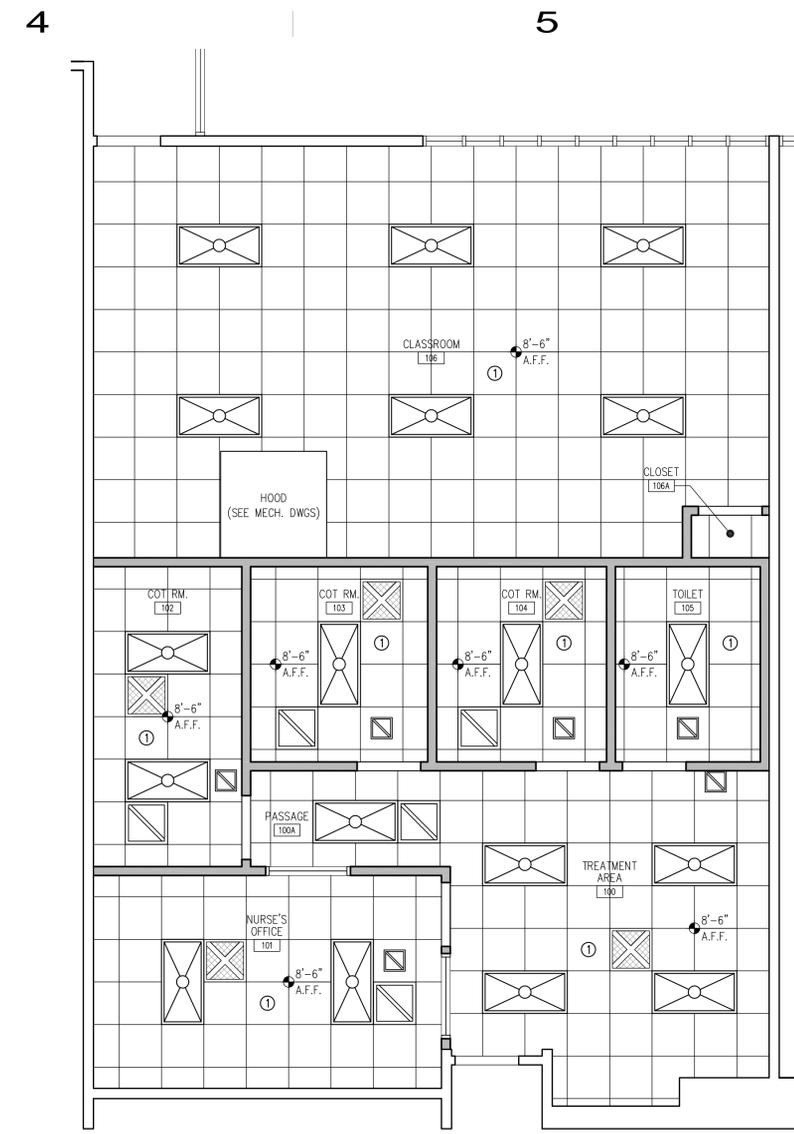
- SEE GI-101 FOR MOUNTING INFORMATION
ALL ACCESSORIES USE BRADLEY CORP. AS BASIS OF DESIGN.
- T-1** TOILET TISSUE DISPENSER MO. 508-32
 - T-2** LEVER OPERATED PAPER TOWEL DISPENSER MO. 2495
 - T-3** SURFACE MOUNTED TANK TYPE SOAP DISPENSER MO. 6562
 - T-4** 1 1/2" DIA 36" GRAB BAR W/CONCEALED MOUNTING, HEAVY DUTY STAINLESS STEEL AND SAFETY GRIP. MO. 812 SERIES.
 - T-5** 1 1/2" DIA 42" GRAB BAR W/CONCEALED MOUNTING, HEAVY DUTY STAINLESS STEEL AND SAFETY GRIP. MO. 812 SERIES.
 - T-6** 1 1/2" DIA 18" GRAB BAR W/CONCEALED MOUNTING, HEAVY DUTY STAINLESS STEEL AND SAFETY GRIP. MO. 812 SERIES.
 - T-7** SWING-UP GRAB BAR MO. 8370-101 W/SAFETY GRIP
 - T-8** 24"X36" MIRROR MO. 781-2436

ALL ACCESSORIES TO BE G.C. SUPPLIED AND INSTALLED UNLESS OTHERWISE NOTED.

PROVIDE CONCEALED FIRE TREATED WOOD WALL BLOCKING AT ALL ACCESSORY LOCATIONS AS REQUIRED.

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. PROVIDE EMERGENCY CALL FOR AID WITHIN THREE FEET OF WATER CLOSET WITH A PULL CHORD WHICH SHALL EXTEND TO WITHIN 1'-0" OF THE FLOOR IN SINGLE OCCUPANCY ACCESSIBLE TOILETS AS REQUIRED.



C4 reflected ceiling plan

1/4"=1'-0"

reflected ceiling plan notes:

1. SEE ELECTRICAL & MECHANICAL DRAWINGS FOR FULL SCOPE OF WORK.
2. REFER TO ELECTRICAL LIGHTING PLAN FOR FIXTURE TYPES.

ceiling symbol legend

	CEILING HEIGHT ABOVE FINISHED FLOOR		SMOKE DETECTOR-REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS
	CEILING TYPE - SEE CEILING TYPES AND SPECIFICATION		HVAC RETURN
	2X4 RECESSED LIGHT FIXTURE		HVAC SUPPLY
	6" RECESSED LIGHT FIXTURE		HVAC EXHAUST
	EMERGENCY LIGHTING		EXIT SIGN, SEE ELECTRICAL

ceiling types

REFER TO FINISH SCHEDULE / MATERIAL LIST

- 1** 2X2 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM, ACP-1



edm
architecture
engineering
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: law
drawn by: law

checked by: tse

approved by:

East Windsor
Middle School
Nurse's Suite

38 Main Street
Broad Brook, CT

keyplan:



rev: date: issued for: initials:

floor plans

date:

02.11.14

project number:

ews-3612

scale:

1/4"=1'-0"

drawing number:

A-111

1

2

3

4

5

finish schedule														
Room Number	Room Name	Floor	Walls				Ceiling		Base	Doors	Door Frame	Window	Trim	Remarks
			N	E	S	W	Material	Height						
100	TREATMENT AREA	VCT-1	P-1	P-1	P-1	P-1	ACP-1	8'-6"	WB-1	T-1	P-2	-	-	1
100A	PASSAGE	VCT-1	P-1	P-1	P-1	P-1	ACP-1	8'-6"	WB-1	T-1	P-2	-	-	1
101	NURSE'S OFFICE	VCT-1	P-1	P-1	P-1	P-1	ACP-1	8'-6"	WB-1	T-1	P-2	-	-	1
102	COT ROOM	VCT-1	P-1	P-1	P-1	P-1	ACP-1	8'-6"	WB-1	T-1	P-2	-	-	1
103	COT ROOM	VCT-1	P-1	P-1	P-1	P-1	ACP-1	8'-6"	WB-1	T-1	P-2	-	-	1
104	COT ROOM	VCT-1	P-1	P-1	P-1	P-1	ACP-1	8'-6"	WB-1	T-1	P-2	-	-	1
105	TOILET	CFT-1	VARIES	VARIES	VARIES	VARIES	ACP-1	8'-6"	CB-1	T-1	P-2	-	-	1
106	CLASSROOM	VCT-1	P-1	P-1	P-1	P-1	ACP-1	8'-6"	WB-1	T-1	P-2	-	-	1
106A	CLOSET	VCT-1	P-1	P-1	P-1	P-1	ACP-1	8'-6"	WB-1	T-1	P-2	-	-	1

materials list	
P-1	PAINT & PRIMER. TWO TOP FINISH COATS OF SHERWIN WILLIAMS LOW ODOR/VOC WITH EGG-SHELL FINISH. COLOR TBD.
P-2	PAINT & PRIMER. TWO TOP FINISH COATS OF SHERWIN WILLIAMS LOW ODOR/VOC WITH EGG-SHELL FINISH. COLOR TBD.
CFT-1	DALTILE 2X2 MOSAIC FLOOR TILE KEYSTONES, MARBLE D 325
VCT-1	ARMSTRONG STANDARD EXCELON 12" X 12" VCT, NOUGAT 57501
WB-1	4" JOHNSONITE WALL BASE; 45 SANDALWOOD
CB-1	DALTILE INTEGRAL COVE BASE 2X2 MOSAIC FLOOR TILE KEYSTONES, MARBLE D 325.
WT-1	DALTILE GLAZED 4X4 WALL TILE, ALMOND K165
WT-2	DALTILE GLAZED 4X4 WALL TILE, UPTOWN TAUPE 0132
ACP-1	ARMSTRONG CORTEGA 770 24"x24"x5/8" SQUARE LAY IN ACOUSTICAL CEILING TILE
PL-1	WILSONART LAMINATE 4783-60 WHITE TIGRIS
PL-2	WILSONART LAMINATE 4878-38 PEWTER MESH

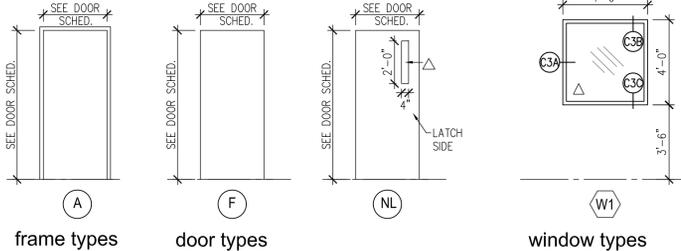
finish schedule remarks:

- PATCH & PAINT WALLS DAMAGED DUE TO NEW CONSTRUCTION TO MATCH EXISTING ADJACENT FINISH.

millwork specifications:

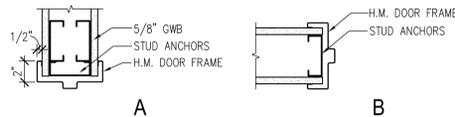
- A. PRODUCTS:
- MEDIUM-DENSITY FIBERBOARD: ANSI A208.2, GRADE MD, MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
 - PARTICLEBOARD: ANSI A208.1, GRADE M-2-EXTERIOR GLUE.
 - VENEER-FACED PANEL PRODUCTS (HARDWOOD PLYWOOD): HPVA HP-1, MADE WITH ADHESIVE CONTAINING NO UREA FORMALDEHYDE.
 - HIGH-PRESSURE DECORATIVE LAMINATE: NEMA LD 3.
- B. PLASTIC-LAMINATE CABINETS:
- CABINET CONSTRUCTION: FLUSH OVERLAY.
 - LAMINATE CLADDING FOR EXPOSED SURFACES: HIGH-PRESSURE DECORATIVE LAMINATE AS FOLLOWS:
 - HORIZONTAL SURFACES OTHER THAN TOPS: GRADE HGL.
 - VERTICAL SURFACES: GRADE VGS.
 - EDGES: GRADE VGS.
 - MATERIALS FOR SEMIEXPOSED SURFACES OTHER THAN DRAWER BODIES: HIGH-PRESSURE DECORATIVE LAMINATE, GRADE CLS.
 - COLORS, PATTERNS, AND FINISHES: SEE FINISH SCHEDULE.
- C. PLASTIC-LAMINATE COUNTERTOPS:
- HIGH-PRESSURE DECORATIVE LAMINATE GRADE: HGS.
 - COLORS, PATTERNS, AND FINISHES: SEE FINISH SCHEDULE.
 - EDGE TREATMENT: 3MM PVC EDGE, COLOR: TO MATCH LAMINATE.
- D. CABINET HARDWARE:
- FRAMELESS CONCEALED HINGES (EUROPEAN TYPE): BHMA A156.9, B01602, 135 DEGREES OF OPENING.
 - WIRE PULLS: BACK MOUNTED, SOLID METAL 4 INCHES LONG, 2-1/2 INCHES DEEP, AND 5/16 INCH IN DIAMETER.
 - CATCHES: ROLLER CATCHES, BHMA A156.9, B03071.
 - EXPOSED HARDWARE FINISHES: FOR EXPOSED HARDWARE, PROVIDE FINISH THAT COMPLIES WITH BHMA A156.18 FOR BHMA FINISH NUMBER INDICATED.
 - SATIN STAINLESS STEEL: BHMA 630.

door schedule															
Door No.	Door			Opening			Frame			Fire Rating	Glass	Hdwr Set No.	Remarks		
	Mat	Type	Thk	Core	Width	Height	Mat	Type	L. Jamb					R. Jamb	Head
100	WD	NL	1 3/4"	SC	3'-0"	6'-8"	HM	A	B3B	B3A	-	-	TG	1	2
101	WD	NL	1 3/4"	SC	3'-0"	6'-8"	HM	A	B3B	B3A	-	-	TG	4	-
102	WD	NL	1 3/4"	SC	3'-0"	6'-8"	HM	A	B3B	B3A	-	-	TG	4	-
103	WD	NL	1 3/4"	SC	3'-0"	6'-8"	HM	A	B3B	B3A	-	-	TG	4	-
104	WD	NL	1 3/4"	SC	3'-0"	6'-8"	HM	A	B3B	B3A	-	-	TG	4	-
105	WD	F	1 3/4"	SC	3'-0"	6'-8"	HM	A	B3B	B3A	-	-	-	3	-
106	EXISTING TO REMAIN														
106A	WD	F	1 3/4"	SC	3'-0"	6'-8"	HM	A	B3B	B3A	-	-	-	2	-

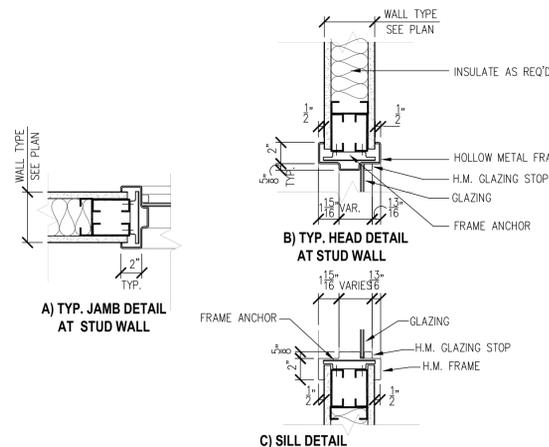


window legend

△ TEMPERED GLASS



B3 frame details 1 1/2"=1'-0"



C3 frame details 1 1/2"=1'-0"

list of abbreviations			
HM	HOLLOW METAL	TG	1/4" TEMPERED GLASS
WD	WOOD	ITG	INSULATED TEMPERED GLASS
AL	ALUMINUM		
SC	SOLID CORE		

door type notes

HM FRAMES 16 GAUGE HOLLOW METAL FRAME
 WOOD DOORS ALL DOORS TO BE 5-PLY SOLID CORE WOOD DOORS. VENEER AND FINISH TO MATCH EXISTING.

hardware

ALL HARDWARE TO MATCH EXISTING BUILDING STANDARD FOR MANUFACTURER, FINISH & KEYING (SARGENT LOCKSETS)

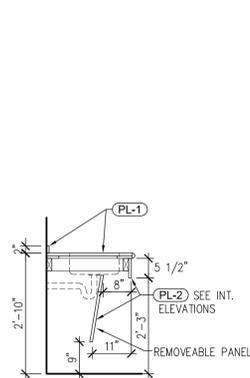
hardware sets

- 1 1/2 PAIR BUTTS
DOOR SILENCERS
LEVER STYLE OFFICE FUNCTION LOCK-SET
CLOSER
WALL MOUNTED STOP
- 1 1/2 PAIR BUTTS
DOOR SILENCERS
CLOSER
LEVER STYLE STORAGE FUNCTION LOCK-SET
WALL MOUNTED STOP
- 1 1/2 PAIR BUTTS
DOOR SILENCERS
LEVER STYLE PRIVACY FUNCTION LOCK-SET
CLOSER
WALL MOUNTED STOP
- 1 1/2 PAIR BUTTS
DOOR SILENCERS
LEVER STYLE PASSAGE FUNCTION LOCK-SET
CLOSER
WALL MOUNTED STOP

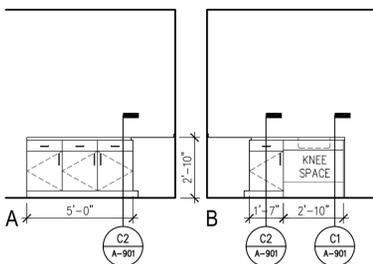
NOTE: CONTRACTOR TO MAKE PROVISIONS FOR A COMPLETE PROJECT HARDWARE SET & KEYING REVIEW MEETING WITH THE OWNER.

remarks

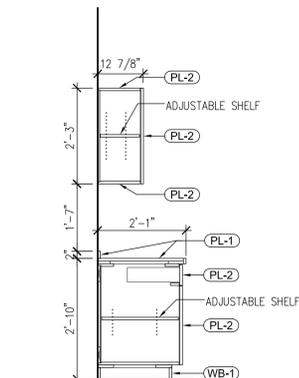
- REUSE EXISTING OPENING. VERIFY DIMENSIONS IN FIELD.



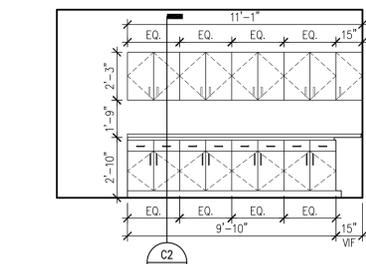
C1 casework section 1/2"=1'-0"



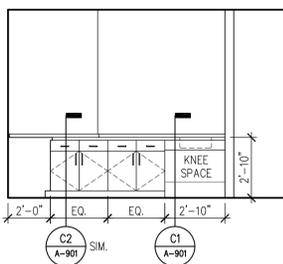
D1 casework elevations 1/4"=1'-0"



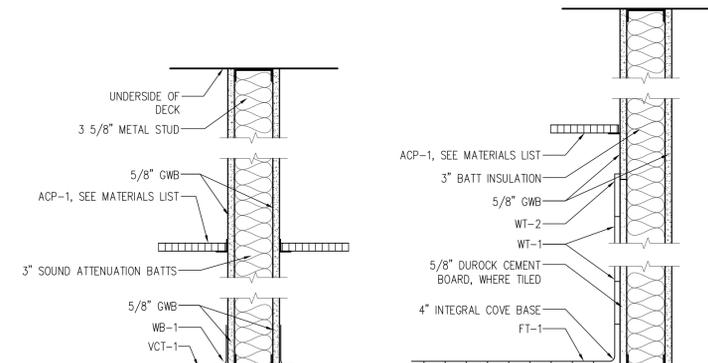
C2 casework section 1/2"=1'-0"



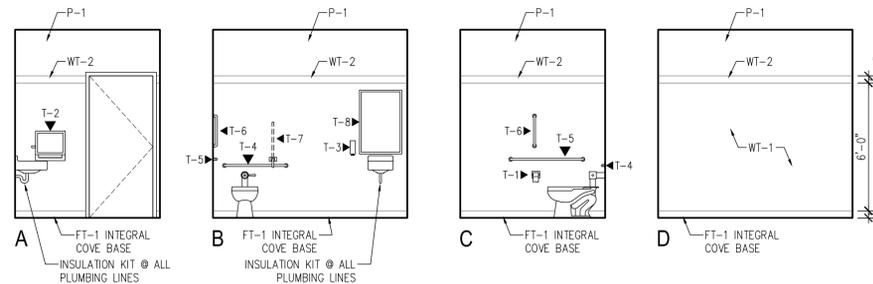
D2 casework elevation 1/4"=1'-0"



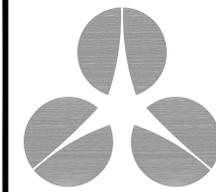
D3 casework elevation 1/4"=1'-0"



C4 wall types 1 1/2"=1'-0"



D4 toilet room elevations 1/4"=1'-0"



edm architecture engineering management

pittsfield, ma unionville, ct

(888) 336-6500 team@edm-ae.com

consultants:

design by: law drawn by: law

checked by: tse

approved by:

East Windsor Middle School Nurse's Suite

38 Main Street Broad Brook, CT

keyplans:

project north

rev: date: issued for: initials:

finish & door schedules details & notes

date: 02.11.14

project number: ews-3612

scale: as noted

drawing number:

A-901

2014 © COPYRIGHT edm

Diffuser Schedule						
TAG	MFGR.	CFM	MODEL	CORE STYLE	NECK SIZE	REMARKS
A	PRICE	200	AMD	3A	8"ø	3 WAY ① ② ④
B	PRICE	200-250	AMD	4A	9"ø	4 WAY ① ② ④
C	PRICE	160-210	800	CUBE CORE	12x12	ALUMINUM EGG CRATE ① ③ ④
D	PRICE	40	800	CUBE CORE	6x6	ALUMINUM EGG CRATE ① ③ ④

-FINISH ON ALL DIFFUSERS/GRILLES TO BE WHITE-

NOTE: LISTED MANUFACTURER USED AS BASELINE. OTHER MANUFACTURERS MAY BE USED BUT MUST BE APPROVED BY ENGINEER

- ① T-BAR MOUNTED
- ② SEE DETAIL #1 ON SHT. H-201
- ③ SEE DETAIL #2 ON SHT. H-201
- ④ PANEL SIZE FOR 24x24 GRID

Kitchen Hood Exhaust Ductwork Specs.

- EXHAUST DUCTWORK & SYSTEM SHALL BE IN ACCORDANCE LATEST EDITION OF NFPA 96.
- DUCTWORK SHALL BE CONSTRUCTED OF 16 GA STEEL.
- ALL DUCTWORK JOINTS SHALL BE CONTINUOUSLY WELDED.
- FIRE SUPPRESSION SYSTEM TO BE PROVIDED AND INSTALLED BY A PROPERLY TRAINED, QUALIFIED, AND CERTIFIED COMPANY OR PERSON(S) ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- PROVIDE A MINIMUM OF 2 ACCESS DOORS OR AS REQUIRED BY CODE IF GREATER THAN 2 IN EXHAUST DUCT FOR CLEANING OF GREASE.
- PROVIDE EXHAUST DUCT INSTALLATION/CONSTRUCTION ACCORDING TO STATE, LOCAL AND FEDERAL CODES THAT WILL ALLOW FOR PROPER CLEARANCES TO COMBUSTIBLE MATERIALS.
- CONTRACTOR TO FIELD VERIFY AND PROVIDE TRANSITIONS TO HVAC EQUIPMENT AND AROUND BUILDING STRUCTURES AS REQUIRED TO INSTALL DUCTWORK BETWEEN HOOD AND EF-1/MAU-1
- PROVIDE CLEAN OUT DOORS AT ALL CHANGES IN DIRECTION.
- GENERAL CONTRACTOR TO COORDINATE WHO FABRICATES AND INSTALLS KITCHEN HOOD EXHAUST DUCTWORK.
- INSULATE EXHAUST DUCT WITH INSULATION RATED FOR EXHAUST HOOD DUCTWORK APPLICATIONS AND TEMPERATURE. SUBMIT OF PRODUCT TO BE USED FOR APPROVAL.
- PROVIDE CLEARANCES FOR DUCTWORK AS REQUIRED FOR INSULATION TYPE BEING USED.

Exhaust Fan Schedule										
TAG	MFGR.	MODEL	SIZE	CFM	STATIC (IN.)	TYPE	FAN RPM	POWER	HP	REMARKS
EF-1	SEE DRAWINGS H-103, H-104, H-105 AND H-106 FOR MAKEUP AIR AND EXHAUST FAN EQUIPMENT SPECIFICATIONS AND INSATALLATION DETAILS GENERAL CONTRACTOR RESPONSIBLE TO COORDINATE WHO PURCHASES/INSTALLS EQUIPMENT. REFER TO CAPTIVE AIRE JOB#1941282									
EF-2	GREENHECK	SQ	85	275	.25	INLINE	1300	120/1/60	1/20	① ②
IF-1	GREENHECK	SQ	75	200	.25	INLINE	1550	120/1/60	1/30	① ②

NOTE: LISTED MANUFACTURER USED AS BASELINE. OTHER MANUFACTURERS MAY BE USED BUT MUST BE APPROVED BY ENGINEER

- ① BACK DRAFT DAMPER
- ② PROVIDE DISCONNECT SWITCH.

General HVAC Notes:

- ALL WIRING SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70).
- THE CONTRACTOR SHALL IDENTIFY POWER SOURCES IN THE FIELD.
- THE CONTRACTOR SHALL PROVIDE CONTROLS AND CONTROL WIRING AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL HVAC SYSTEM.
- PROVIDE WIRING, IN PROPER RACEWAY, FROM POWER PANEL TO ALL EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE EASILY VISIBLE VALVE TAGS AND POST VALVE SCHEDULE IN THE MECHANICAL ROOM.
- THE CONTRACTOR SHALL PROVIDE 8 HOURS OF MANUFACTURERS REPRESENTATIVE INSTRUCTION ON PROGRAMMING CONTROLS TO ALL EQUIPMENT.
- INSTALL ALL HVAC EQUIPMENT AND CONTROLS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL UNIT PLUMB, LEVEL, FIRMLY ANCHORED IN LOCATION INDICATED, AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
- INSTALL AND CONNECT ELECTRICAL CONTROL DEVICES FURNISHED BY THE MANUFACTURER, BUT NOT IF SPECIFIED TO BE FACTORY MOUNTED.
- ALL DUCTWORK SYSTEMS TO BE BALANCED BY A CERTIFIED BALANCING CONTRACTOR. A WRITTEN REPORT OF THE RESULTS ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW.

Refrigerant Piping Notes:

- ALL REFRIGERANT PIPING TO BE IN ACCORDANCE WITH MANUFACTURER'S PIPING CONNECTION DIAGRAMS.
- PIPING REQUIREMENTS:
 - DEHYDRATED COPPER TUBING TYPE ACR CONFORMING TO ASTM B88 & ASTM B280.
 - ALL FITTINGS ARE TO BE LONG RADIUS.
 - ALL COPPER-BRAZED JOINTS WILL BE BRAZED WITH 25% SILVER BRAZE CONFORMING TO AWS A5.8
- BRAZING TO BE PERFORMED USING INERT GAS TO PREVENT THE OXIDATION OF COPPER INSIDE OF THE TUBING.
- REFRIGERANT LINE DRYERS ARE TO BE INSTALLED IN BOTH LIQUID LINES. DRYERS TO BE SIZED FOR THE CAPACITY OF THE UNITS.
- ALL REFRIGERATION HOT GAS LINES AND CONDENSATE PIPING WILL BE INSTALLED WITH 1/2" FLEXIBLE ELASTOMERIC PIPE COVERING.

Kitchen Exhaust System Notes:

- KITCHEN EXHAUST FAN SYSTEM TO BE STAND ALONE CONTROL. HOOD EXHAUST FAN OPERATION INTERLOCKED WITH HOOD, MAKEUP AIR UNIT AND INDUCT ELECTRIC COIL HOOD OPERATION IS MANUAL. REFERENCE SHEETS H-103, H-104, H-105 AND H-106 (CAPTIVAIRE JOB #1941282).
- EXHAUST HOOD ANSUL SYSTEM TO TO INTERLOCKED TO FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS ELECTRICAL, MECHANICAL AND FIRE PROTECTION CONTRACTOR. REFERENCE SHEETS H-103, H-104, H-105 AND H-106 (CAPTIVAIRE JOB #1941282).

General Mechanical Notes:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DIMENSIONS AND FIELD CONDITIONS PRIOR TO STARTING WORK. REPORT ANY DISCREPANCIES FOUND TO THE ENGINEER BEFORE THE START OF WORK. NO EXTRA PAYMENT WILL BE ALLOWED DUE TO CONTRACTORS UNFAMILIARITY WITH THE SITE FIELD CONDITIONS.
- CONTRACTOR RESPONSIBLE TO MAKE HVAC MODIFICATIONS AS SHOWN ON DRAWINGS AND TO PROVIDE AND INSTALL THE REQUIRED COMPONENTS FOR A COMPLETE AND OPERATIONAL HVAC AND EXHAUST SYSTEM.
- INSTALL BALANCE DAMPERS AT EVERY BRANCH CONNECTION OF THE NEW AND EXIST. SUPPLY AND RETURN DUCTWORK.
- ALL DUCTWORK, FLEX CONNECTIONS, AND ASSEMBLIES TO CONFORM TO SMACNA STANDARDS.
- IT IS MECHANICAL CONTRACTOR RESPONSIBILITY FOR DAILY CLEANUP THE PROPER LEGAL DISPOSAL OF ALL DEMOLISHED EQUIPMENT AND DEBRIS CREATED BY THEIR WORK.
- CONTRACTOR RESPONSIBLE TO FIELD VERIFY AND PROVIDE PROPER TRANSITIONS OF SUPPLY/RETURN DUCTWORK TO ALL HVAC EQUIPMENT INSTALLED.
- ALL DUCTWORK INSTALLATION AND CONSTRUCTION TO BE DONE IN A MANNER TO PROVIDE THE MINIMAL AMOUNT OF STATIC PRESSURE.
- PROVIDE FULL SUBMITTAL AND SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL.
- INSULATE ALL SUPPLY/RETURN DUCTWORK WITH 1-1/2" FIBERGLASS BLANKET WITH FOIL FACING.
- INSTALL TURNING VANES IN DUCTWORK WHERE CHANGES IN DIRECTION OCCUR.
- CONTRACTOR TO INSTALL ALL HVAC EQUIPMENT, PIPING, DUCTWORK AND ACCESSORIES TO MEET ALL STATE, FEDERAL AND LOCAL CODES.
- DUCT SIZES ARE CALLED OUT WIDTH x HEIGHT. ALL DUCTWORK TO COMPLY WITH SMACNA STANDARD FOR PRESSURE CLASS 6 (1.5" W.G. STATIC) ELBOWS & TEES TO HAVE TURNING VANES.
- DUCT MATERIAL SHALL BE GALVANIZED METAL TO MEET SMACNA STANDARDS. ALL JOINTS TO BE SEALED WITH A LATEX DUCT SEALER.
- IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE A COMPLETE INSTALLATION INCLUDING ALL CONTROL WIRING, PIPING DRAINAGE CONNECTIONS, CONTROLS, DUCTWORK AND HANGERS FOR THE INSTALLATION OF THE HVAC EQUIPMENT.
- INSTALL ALL VOLUME DAMPERS AND DUCT ACCESSORIES IN A MANNER SO THAT FUTURE MAINTENANCE/ADJUSTMENT IS POSSIBLE.
- MECHANICAL CONTRACTOR RESPONSIBLE TO COORDINATE ALL REQUIRED PENETRATIONS IN WALLS, FLOORS AND ROOFS TO GENERAL CONTRACTOR.
- FLEXIBLE INSULATED DUCTWORK NOT TO EXCEED 8' IN LENGTH PER INSTALLED RUN AND SHALL NOT BE USED FOR RETURN DUCT.
- MECHANICAL CONTRACTOR RESPONSIBLE TO VERIFY FIELD DIMENSIONS REQUIRED FOR INSTALLATION OF SPECIFIED EQUIPMENT/FIXTURES BEFORE ORDERING/BUYING EQUIPMENT/FIXTURES SPECIFIED IN THE CONTRACT. NOTIFY ENGINEER OF ANY DISCREPANCIES, SO APPROPRIATE ACTION MAY BE TAKEN.
- CONTRACTORS TO VERIFY ALL DUCTWORK CONNECTION SIZES TO EQUIPMENT NEW AND EXISTING AND PROVIDE TRANSITION CONNECTIONS AS REQUIRED. ALL TRANSITIONS SHOULD BE SMOOTH AND PROVIDE MINIMAL STATIC PRESSURE DROP.
- PROVIDE SHOP DRAWINGS FOR ANY AND ALL FIELD CHANGES FOR HVAC PIPING, DUCTWORK, PIPING/DUCT ROUTING OR SIZING CHANGES TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION.

Exhaust Hood Schedule						
TAG	MFGR.	MODEL	SIZE	OUTLET	DESCRIPTION	REMARKS
H-1	SEE DRAWINGS H-103, H-104, H-105 AND H-106 FOR MAKEUP AIR AND EXHAUST FAN EQUIPMENT SPECIFICATIONS AND INSATALLATION DETAILS GENERAL CONTRACTOR RESPONSIBLE TO COORDINATE WHO PURCHASES/INSTALLS EQUIPMENT. REFER TO CAPTIVE AIRE JOB#1941282					

NOTE: LISTED MANUFACTURER USED AS BASELINE. OTHER MANUFACTURERS MAY BE USED BUT MUST BE APPROVED BY ENGINEER

- ① CAPTIVE AIRE TO PROVIDE STANDALONE ENERGY MANAGEMENT SYSTEM FOR CONTROL OF EF-1 AND MAU-1. EQUIPMENT UNDER HOOD HAVE STANDING PILOTS THAT ARE LIGHT 24 HR ADAY 7 DAYS AWEK.

HVAC Equipment Schedule									
UNIT NO.	MFGR.	MODEL NO.	COOLING HEATING	AIRFLOW CFM H/M/L	VOLTAGE	BREAKER	AMP	REMARKS	
CU-1	TRANE	YHD150	48,000 BTU/H 54,000 BTU/H	3884	208/1/60	50	29		
EV-1 EV-2 EV-3 EV-4 EV-5	TRANE	4TVL0007B100NB	7500 BTU/H 8500 BTU/H	282/247/212	208/1/60	15	1	① ② ③ ④	
MAU-1	SEE DRAWINGS H-103, H-104, H-105 AND H-106 FOR MAKEUP AIR AND EXHAUST FAN EQUIPMENT SPECIFICATIONS AND INSATALLATION DETAILS GENERAL CONTRACTOR RESPONSIBLE TO COORDINATE WHO PURCHASES/INSTALLS EQUIPMENT. REFERE TO CAPTIVE AIRE JOB#1941282								

LISTED MANUFACTURER USED AS BASELINE. OTHER MANUFACTURERS MAY BE USED BUT MUST BE APPROVED BY ENGINEER

- ① LOW AMBIENT PROTECTION PACKAGE.
- ② PROVIDE DISCONNECT
- ③ PURON (R-410A) REFRIGERANT.
- ④ PROVIDE OPTIONAL CONDENSATE DRAIN PUMP AND KIT
- ⑤ PROVIDE WIRED REMOTE CONTROLLER MODEL: TVCTRLTRWE10T FOR EACH EV-# UNIT

Electric Duct Heater

TAG	MFGR.	MODEL	CAPACITY	DUCT SIZE	POWER	CONTROLS	FEATURES
EDH-1	INDEECO TECH	TFXU	14 KW	24X14	208/60/3 45 AMPS	S.C.R. PROPORTIONAL CONTROL OPTION DUCT MOUNT	GALVANIZED STEEL CONSTRUCTION W/ DISCONNECT SWITCH, AIR FLOW SWITCH, FAN INTERLOCK RELAY W/ SLIP IN MOUNTING AND HINGED CONTROL PANEL COVER

NOTE: LISTED MANUFACTURER USED AS BASELINE. OTHER MANUFACTURERS MAY BE USED BUT MUST BE APPROVED BY ENGINEER



edm
architecture
engineering
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: **MDB** drawn by: **MDB**

checked by:

approved by:

East Windsor
Middle School
Nurse's Suite

38 Main Street
Broad Brook, CT

keyplan:



REV.	DATE	ISSUED FOR	BY

HVAC Notes
and Schedules

date:

02.11.14

project number:

ews-3612

scale:

scale: as noted

drawing number:

H-001

A

B

C

D

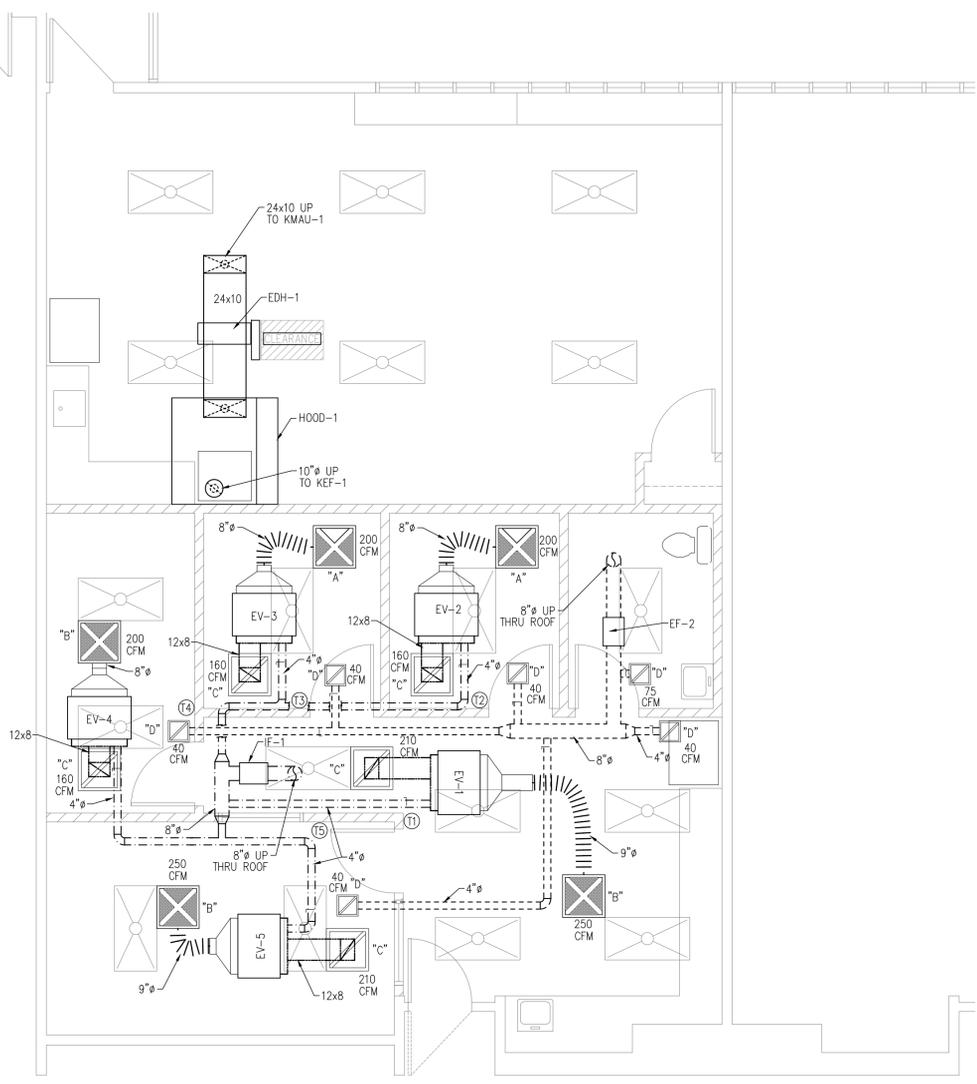
1

2

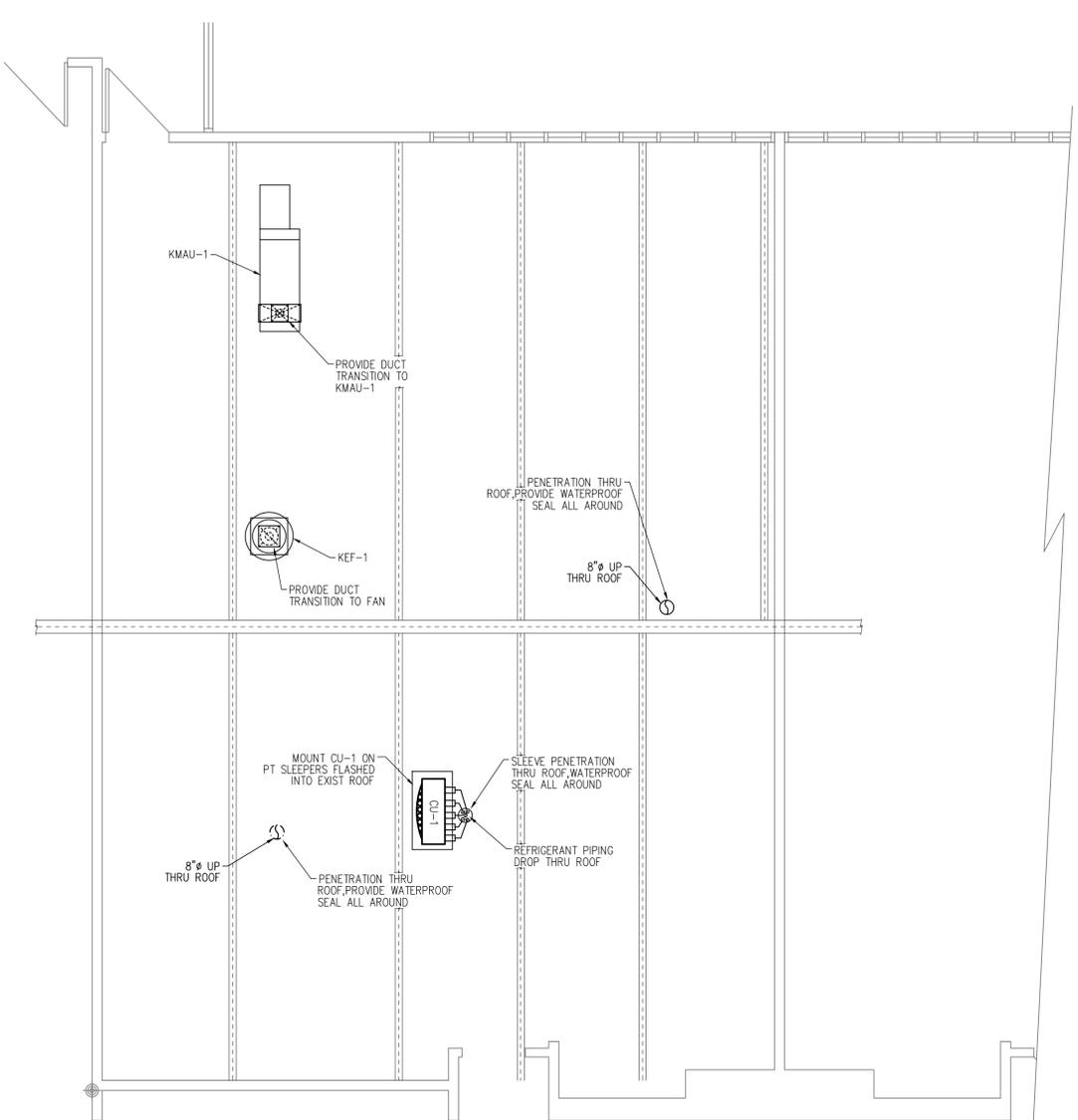
3

4

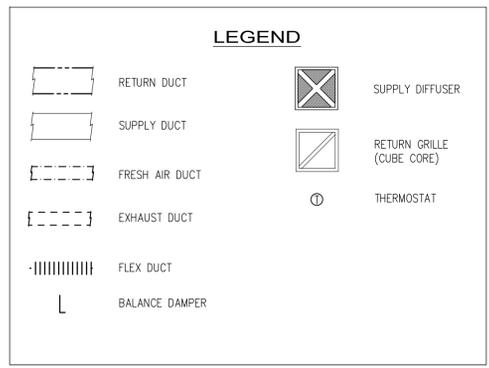
5



1 new HVAC plan
1/4"=1'-0"



2 new HVAC equipment and penetrations roof plan
1/4"=1'-0"



- NOTES:**
- CONTRACTOR TO PROVIDE ALL DUCTWORK TRANSITIONS TO EQUIPMENT, AND AROUND BUILDING OBSTRUCTIONS AS REQUIRED.
 - SUSPEND ALL EQUIPMENT AND DUCTWORK FROM STEEL WORK ABOVE USING PROPERLY SIZED HANGERS AND SUPPORTS. RESUPPORT ALL DISTURBED/MODIFIED EQUIPMENT AND DUCTWORK AS REQUIRED.
 - SEE DETAIL #2 ON SHEET H-201 FOR RETURN GRILLE INSTALLATION.
 - SEE DETAIL #1 ON SHEET H-201 FOR SUPPLY DIFFUSER INSTALLATION.
 - ALL NEW SUPPLY/RETURN AND FRESH AIR DUCTWORK TO BE INSULATED WITH 1-1/2" FACED FIBERGLASS INSULATION.
 - CONTRACTOR TO PROVIDE ALL MATERIALS TO SECURELY SUPPORT/HANG DUCTWORK AND EQUIPMENT FROM STEEL WORK ABOVE DROP CEILING.
 - SEE DETAILS #6-9 ON SHEET H-201 FOR KITCHEN EXHAUST HOOD DUCTWORK DETAILS.
 - CONTRACTOR TO FIELD VERIFY AND PROVIDE TRANSITIONS TO HVAC EQUIPMENT AND AROUND BUILDING STRUCTURES AS REQUIRED TO INSTALL DUCTWORK BETWEEN HOOD AND KEF-1/KMAU-1
 - PROVIDE BALANCE DAMPERS ON THE FRESH AIR, SUPPLY AND EXHAUST DUCTWORK AT EACH BRANCH CONNECTION FOR BALANCING OF THE SYSTEMS.
 - ALL DUCTWORK SYSTEMS TO BE BALANCED BY A CERTIFIED BALANCING CONTRACTOR AND PROVIDE A WRITTEN REPORT OF THE RESULTS.
 - EV-# UNITS TO BE INSTALLED ABOVE DROP CEILING.
 - FIELD VERIFY EXISTING STEEL BEAMS LOCATIONS AND COORDINATE LOCATION OF NEW EQUIPMENT AND PENETRATIONS BEING INSTALLED. IF INTERFERENCES ARE FOUND RELOCATE EQUIPMENT/PENETRATIONS AS REQUIRED AND COORDINATE WITH ALL DISCIPLINES INVOLVED NOTIFY ENGINEER/ARCHITECT OF CHANGE FOR APPROVAL BEFORE PERFORMING.
 - SEE DETAIL #10 ON SHEET H-201 FOR FRESH AIR INTAKE AND EXHAUST DUCT ROOFTOP GOOSE NECK INSTALLATION.
 - PROVIDE ALL SEISMIC SUPPORT/BRACING AS REQUIRED BY ALL APPLICABLE GOVERNING CODES.
 - EDH-1 OPERATION TO BE INTERLOCKED WITH KMAU-1. INDUCT SENSOR TO CONTROL SUPPLY AIR TEMPERATURE. SUPPLY AIR TEMPERATURE TO BE MAINTAINED AT 75F.



edm
architecture
•
engineering
•
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: **MDB** drawn by: **MDB**

checked by:

approved by:

East Windsor Middle School Nurse's Suite

38 Main Street
Broad Brook, CT

keyplan:



rev.	date	issued for	initials

New HVAC Equipment and Ductwork Plan

date: **02.11.14**

project number: **ews-3612**

scale: **scale: as noted**

drawing number:

H-101

2013 © COPYRIGHT edm

1 | 2 | 3 | 4 | 5

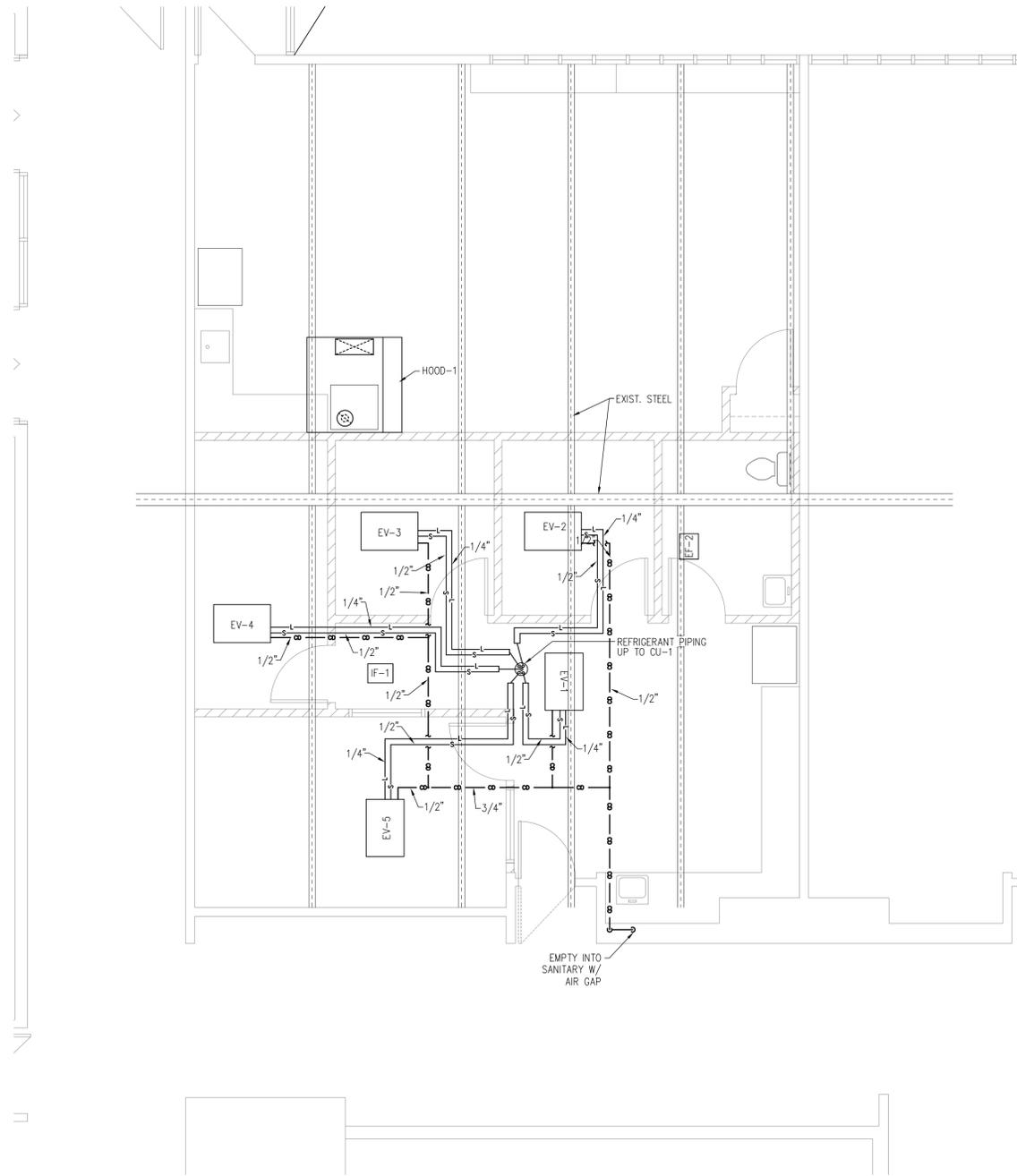
A

B

C

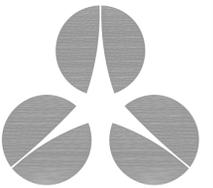
D

LEGEND	
	REFRIGERANT PIPING LIQUID LINE
	REFRIGERANT PIPING LIQUID LINE
	CONDENSATE DRAIN



- NOTES:**
1. CONTRACTOR TO PROVIDE ALL REFRIGERANT PIPING CONNECTIONS/TRANSITIONS TO EQUIPMENT, AND AROUND BUILDING OBSTRUCTIONS AS REQUIRED.
 2. SUSPEND ALL REFRIGERANT PIPING FROM STEEL WORK ABOVE USING PROPERLY SIZED HANGERS AND SUPPORTS. RESUPPORT ALL DISTURBED/MODIFIED EQUIPMENT AND PIPING AS REQUIRED.
 3. CONTRACTOR TO PROVIDE ALL MATERIALS TO SECURELY SUPPORT/HANG REFRIGERANT AND EQUIPMENT FROM STEEL WORK ABOVE DROP CEILING.
 4. ALL REFRIGERANT PIPING TO BE INSTALLED BETWEEN ROOF AND DROP CEILING.
 5. INSULATE ALL REFRIGERANT PIPING.
 6. ALL CONDENSATE DRAIN PIPING TO BE INSTALLED BETWEEN ROOF AND DROP CEILING.

1 refrigerant piping plan
1/4"=1'-0"



edm

architecture
•
engineering
•
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: MDB
drawn by: MDB

checked by:

approved by:

East Windsor
Middle School
Nurse's Suite

38 Main Street
Broad Brook, CT

keyplan:



rev.	date	issued for	submitted

HVAC Refrigerant
and condensate drain
Piping Plan

date: 02.11.14

project number: ews-3612

scale: as noted

drawing number:

H-102

1

2

3

4

5

HOOD INFORMATION - Job#1941282

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.		
					TOTAL EXH. CFM	WIDTH	LENG.	DIA.	CFM			S.P.	END TO END	ROW
1		4824 ND-2-PSP-F	4' 0.00'	450 Deg.	740			10"	740	-0.248'	600	430 SS Where Exposed	ALONE	ALONE

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S)			LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT		
		TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	WIRE GUARD	LOCATION	FIRE SYSTEM TYPE	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1		SS Baffle with Handles	3	16"	16"	2	Screw In Compact	NO	Left	Ansul R102	1.5	SC-21111002	1 Light 1 Fan	YES	335 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 4.00' High Front, Left, Right
		RIGHT QUARTER END PANEL 23' Top Width, 0' Bottom Width, 23' High 430 SS
		LEFT QUARTER END PANEL 23' Top Width, 0' Bottom Width, 23' High 430 SS

PERFORATED SUPPLY PLENUM(S)

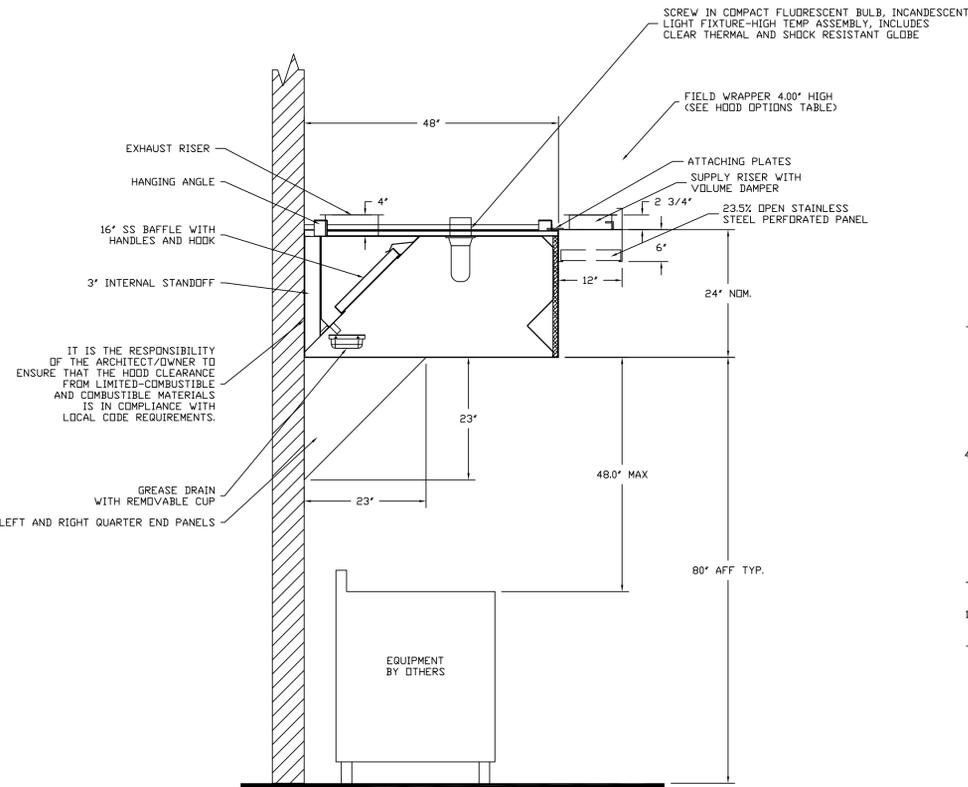
HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	60"	12"	6"	MUA	10"	24"		600	0.167'

CAPTIVE-AIRE HOODS AND FIRE SUPPRESSION SYSTEMS COMPLY WITH THE FOLLOWING AGENCIES

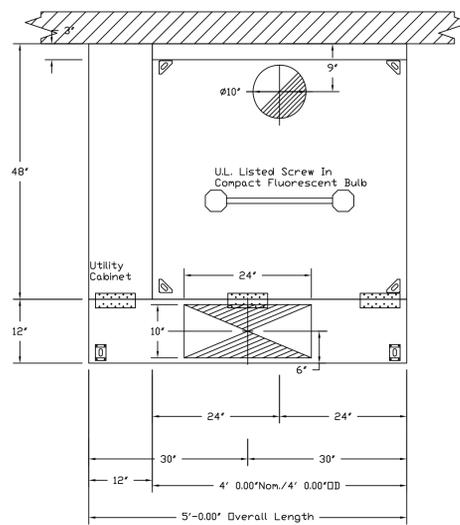
NFPA #96
NSF
UL710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

IMC 2009
SECTIONS 507, 508, & 509

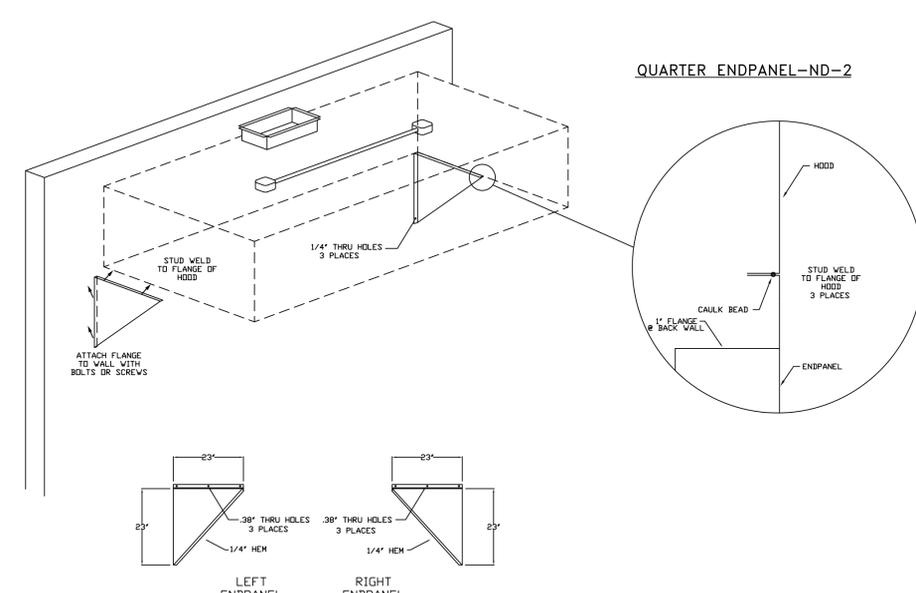
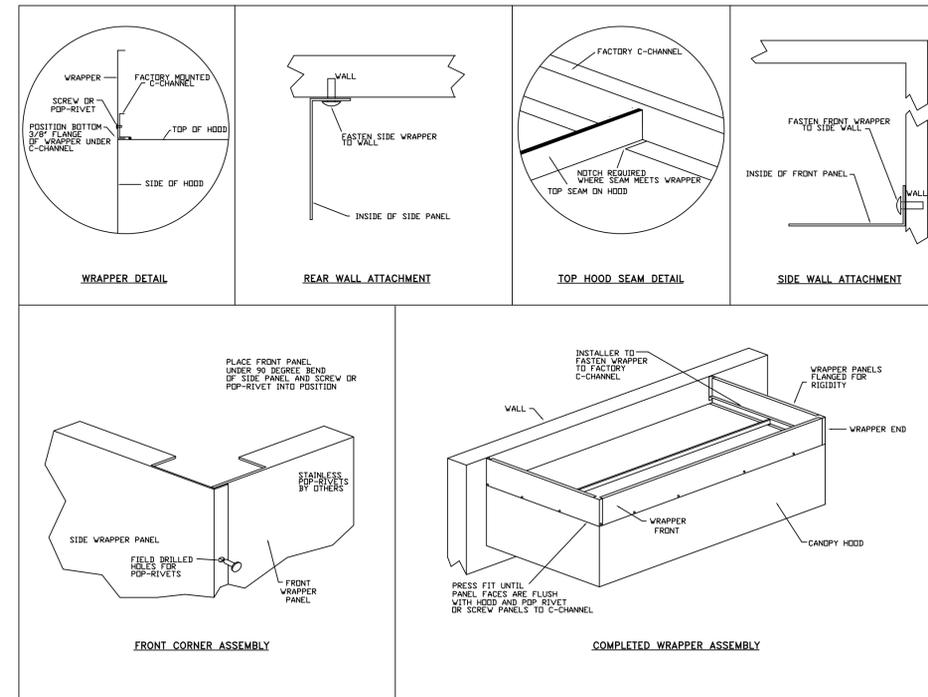
VERIFY CEILING HEIGHT
Height required to verify that the hood will fit and to size the enclosure panels



SECTION VIEW - MODEL 4824ND-2-PSP-F HOOD - #1



PLAN VIEW - Hood #1 4' 0.00' LONG 4824ND-2-PSP-F



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

FOR QUESTIONS, CALL THE
NORTHEAST REGIONAL SALES OFFICE
105 EAST STREET, CHICOPEE, MA 01020
PHONE: (888) 594-8390
FAX: (413) 594-9774

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: **MDB** drawn by: **MDB**

checked by:

approved by:

East Windsor
Middle School
Nurse's Suite

38 Main Street
Broad Brook, CT

keyplan:

project north

rev: _____ date: _____ issued for: _____

Exhaust hood and
Equipment Plan

date: 02.11.14

project number: ews-3612

scale: as noted

drawing number: H-103

A

B

C

D

Fire System Information - Job#1941282

Table with columns: FIRE SYSTEM NO., Tag, TYPE, SIZE, FLOW POINTS, INSTALLATION (SYSTEM, LOCATION ON HOOD)

GAS VALVE(S)

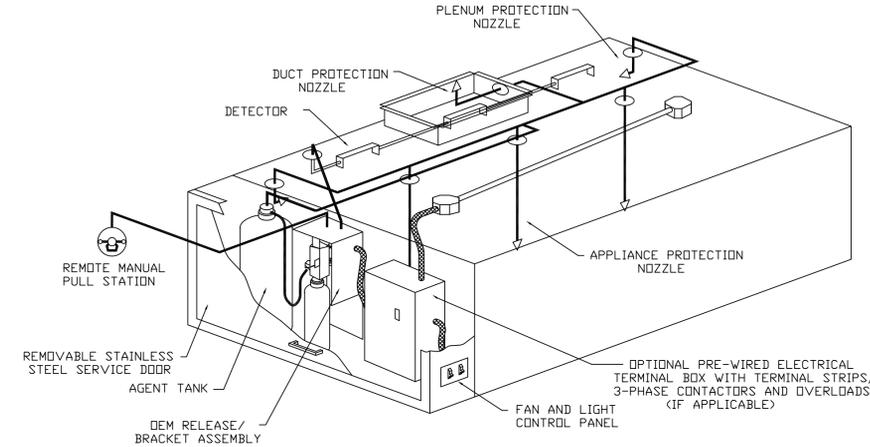
Table with columns: FIRE SYSTEM NO., TAG, TYPE, SIZE, SUPPLIED BY

Fire System Parts List Key

Table with columns: FIRE SYSTEM NO., TAG, KEY NUMBER - PART DESCRIPTION, QTY. BY FACTORY, QTY. BY DIST.

LEGEND - FIRE CABINET ANSUL SYSTEM

- 1A 1.5 GALLON TANK
1B 3 GALLON TANK
2 DEM AUTOMAN RELEASE
3 DEM REGULATED RELEASE
4 DEM REGULATED ACTUATOR
5 ANSULEX LIQUID AGENT (3 GAL.)
6 ANSULEX LIQUID AGENT (1.5 GAL.)
7 CARTRIDGE (101-20)
8 CARTRIDGE (101-10)
9 CARTRIDGE (101-30)
9A CARTRIDGE (LT-A-101-30)
9B DOUBLE TANK CARTRIDGE
10 TEST LINK
11 DOUBLE MICROSWITCH
12 HOSE ASSEMBLY
1100 DUCT NOZZLE (430913)
2W DUCT NOZZLE (419337)
1W NOZZLE ASSEMBLY (419336)
1F NOZZLE ASSEMBLY (419333)
1N NOZZLE ASSEMBLY (419335)
1/2N NOZZLE ASSEMBLY (419334)
3N NOZZLE ASSEMBLY (419338)
245 NOZZLE ASSEMBLY (419340)
230 NOZZLE ASSEMBLY (419339)
2120 NOZZLE ASSEMBLY (419343)
290 NOZZLE ASSEMBLY (419342)
260 NOZZLE ASSEMBLY (419341)
28 DETECTOR BRACKET
29 LOW TEMP FUSIBLE LINK
30 HIGH TEMP FUSIBLE LINK
MGV MECHANICAL GAS VALVE
EGV ELECTRICAL GAS VALVE
34 REMOTE MANUAL PULL STATION
S SWIVEL ADAPTOR



TYPICAL ANSUL R-102 SYSTEM LAYOUT

Job #: 1941282
Job Name: East Windsor Middle School
Drawn By:
System Size: ANSUL-1.5 Total FP required: 5
Hood # 1 4' 0.00' Long x 48' Wide x 24' High
Riser # 1 Size: 0' x 0'

NOTES

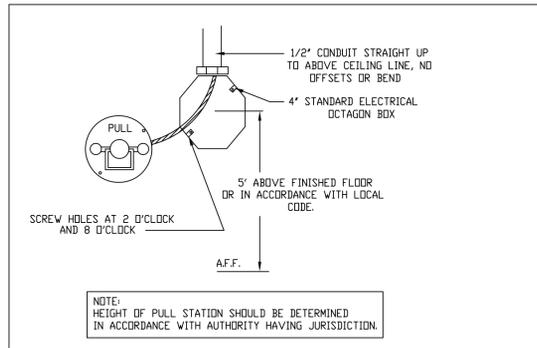
- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- IF APPLICABLE, PRE-PIPED CHARBROILER DRDPS ARE 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

Job #: 1941282
Job Name: East Windsor Middle School
Drawn By:
System Size: ANSUL-1.5 Total FP required: 5
Hood # 1 4' 0.00' Long x 48' Wide x 24' High
Riser # 1 Size: 10' Dia.

SPECIFICATIONS

- THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)
THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.
THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.
THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/LINKAGE ASSEMBLY.

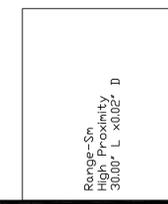
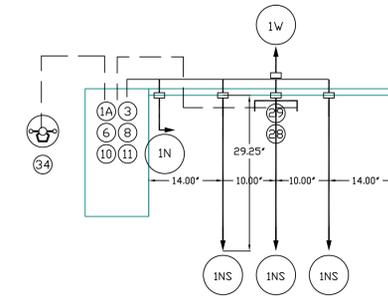
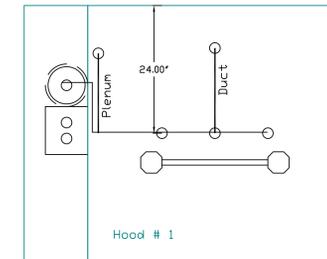
ANSUL PULL STATION DETAIL



HOOD AND ANSUL SYSTEM SEQUENCE OF OPERATION

THE HOOD WILL BE EQUIPPED WITH AN ANSUL R-102 SYSTEM THAT HAS FUSIBLE LINKS FOR AUTOMATIC DETECTION OF A FIRE. THESE LINKS ARE SET TO MELT AT A PREDETERMINED TEMPERATURE AND WILL ACTIVATE THE ANSUL SYSTEM ONCE THAT TEMPERATURE IS EXCEEDED. THE ANSUL SYSTEM CAN ALSO BE ACTIVATED BY PULLING THE REMOTE PULL STATION HANDLE. ONCE ONE OF THESE TWO EVENTS HAVE OCCURRED, THE FOLLOWING SEQUENCE WILL TAKE PLACE.

- 1. TENSION IN THE WIRE CABLE THAT CONNECTS THE FUSIBLE LINKS, REMOTE PULL STATION, AND THE MECHANICAL GAS VALVE TO THE ANSUL REGULATED RELEASE ASSEMBLY WILL BE RELEASED. AT THIS TIME THE FOLLOWING WILL TAKE PLACE
A. THE GAS VALVE WILL SHUT OFF THE FLOW OF GAS TO THE COOKING APPLIANCES.
B. THE REGULATED RELEASE ASSEMBLY WILL ALLOW THE SYSTEM TO START SPRAYING THE ANSULEX LOW PH LIQUID FIRE SUPPRESSANT INTO THE PLENUM AREA, THE FILTERS, COOKING SURFACE, AND THE EXHAUST DUCT SYSTEM AT A PREDETERMINED FLOW RATE TO SUPPRESS THE FIRE.
C. THE REGULATED RELEASE ASSEMBLY WILL CHANGE THE STATE OF A SET OF MICRO SWITCHES THAT ARE WIRED TO THE HOODS ELECTRICAL CONTROL PACKAGE.
2. ONCE THE MICRO SWITCHES CHANGE STATE THE FOLLOWING EVENTS WILL TAKE PLACE.
A. THE EXHAUST FAN WILL TURN ON IF IT WAS OFF OR REMAIN RUNNING IF IT WAS ON AT THE TIME THE FIRE OCCURRED.
B. THE MAKE UP AIR FAN WILL SHUT DOWN
C. THE SHUNT TRIP DEVICE WIRED TO THE ELECTRICAL CONTROL PACKAGE WILL RECEIVE A SIGNAL TO SHUT DOWN THE APPLIANCES WIRED TO IT SO THAT THERE IS NO ELECTRICAL APPLIANCE UNDER THE HOOD RECEIVING POWER FROM THE BUILDING.
D. ADDITIONAL EVENTS MAY ALSO OCCUR AT THIS TIME DEPENDING ON LOCAL CODES SUCH AS A SIGNAL BEING SENT TO ACTIVATE THE BUILDING ALARM OR SHUT DOWN OF THE LIGHTS IN THE HOOD.



CUSTOMER APPROVAL TO MANUFACTURE:
Approved as Noted
Approved with ND Exception Taken
Revise and Resubmit
SIGNATURE:
Your Title: Date:

FOR QUESTIONS, CALL THE
NORTHEAST REGIONAL SALES OFFICE
105 EAST STREET, CHICOPEE, MA 01020
PHONE: (888) 594-8390
FAX: (413) 594-9774



edm
architecture
engineering
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: MDB
drawn by: MDB

checked by:

approved by:

East Windsor Middle School Nurse's Suite

38 Main Street Broad Brook, CT

keyplan:



Table with columns: rev., date, issued for, status

Exhaust hood and Equipment Plan

date:

02.11.14

project number:

ews-3612

scale: as noted

drawing number:

H-104

1

2

3

4

5

EXHAUST FAN INFORMATION - Job#1941282

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1	KEF-1	NCABFA	740	0.650	1296	0.333	1	208	3.5	105	4.9

MUA FAN INFORMATION - Job#1941282

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	CFM	ESP.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
2	KMUA-1	A1-G10	G10	A1	600	0.300	526	0.333	1	208	3.5	241	7.2

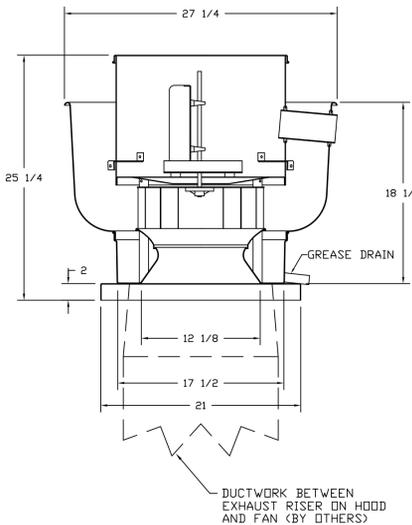
FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	KEF-1	1 - Grease Box
2	KMUA-1	1 - Gravity Backdraft Damper for Size 1 Housing

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	34 LBS	Curb	19.500"W x 19.500"L x 22.000"H Vented Hinged
2	# 2	29 LBS	Curb	21.000"W x 21.000"L x 20.000"H

FAN #1 NCABFA - EXHAUST FAN (KEF-1)



FEATURES:

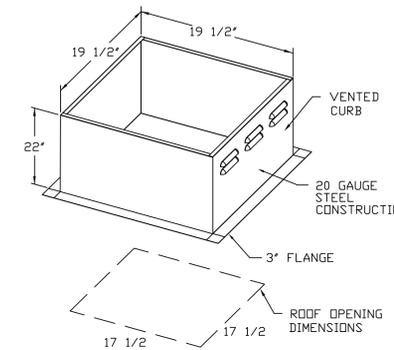
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

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 DETERIORATING EFFECTS TO THE FAN WHICH 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.

OPTIONS

- GREASE BOX

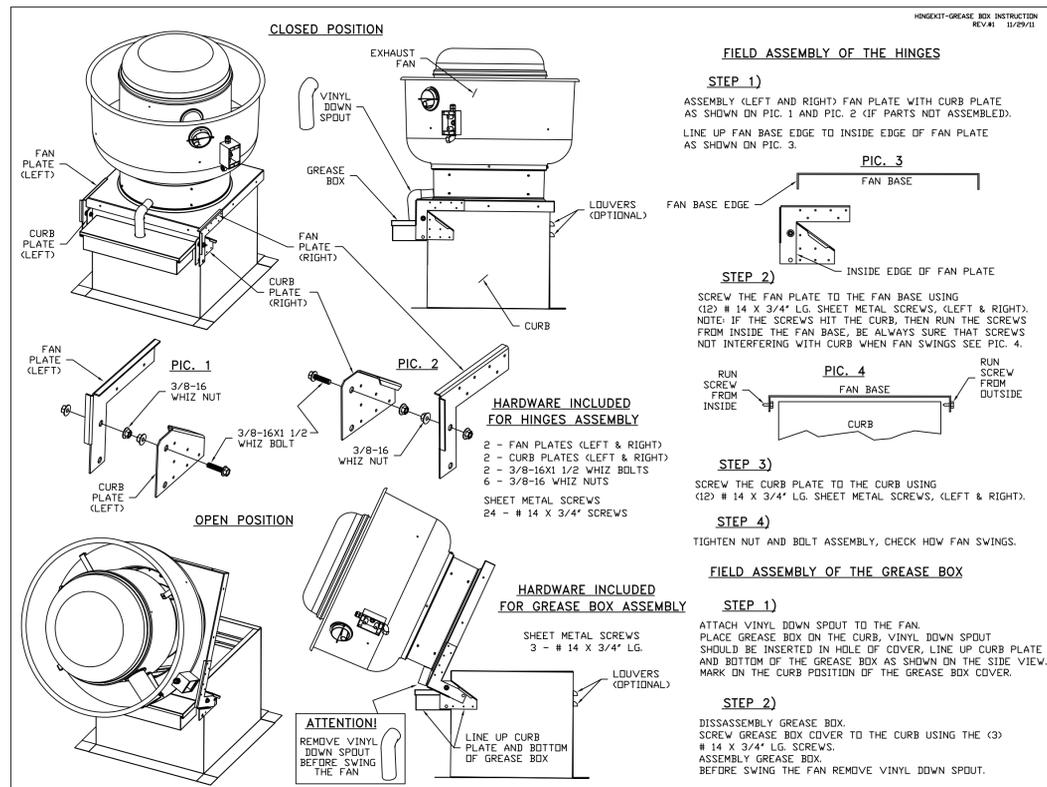


A

B

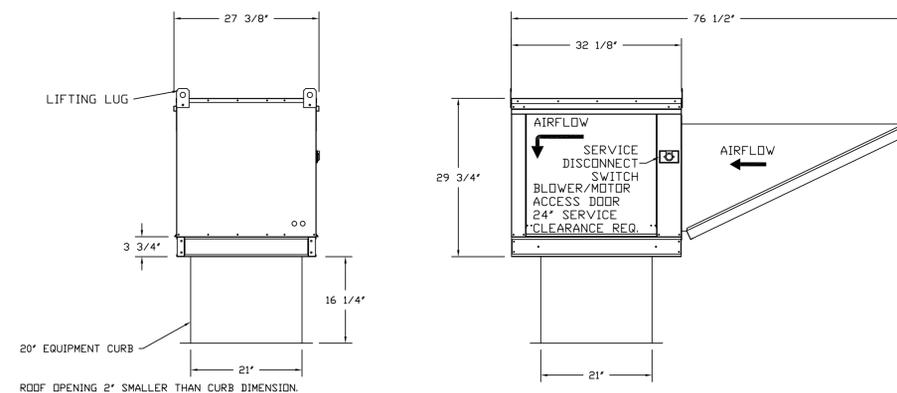
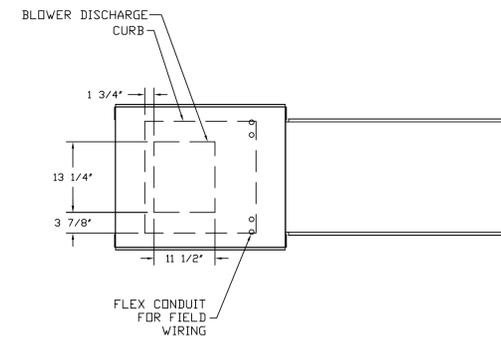
C

D



FAN #2 A1-G10 - SUPPLY FAN (KMUA-1)

1. UNTEMPERED SUPPLY UNIT WITH 10" BLOWER IN SIZE #1 HOUSING
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
4. GRAVITY BACK DRAFT DAMPER, 16" WIDE X 18" HIGH, STANDARD GALVANIZED CONSTRUCTION, 1 1/4" REAR FLANGE, FOR SIZE 1 UNTEMPERED FAN HOUSING (5181)



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

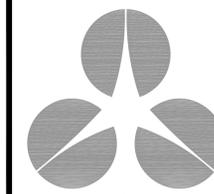
Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____ Date _____

Your Title _____

FOR QUESTIONS, CALL THE
NORTHEAST REGIONAL SALES OFFICE
105 EAST STREET, CHICOPEE, MA 01020
PHONE: (888) 594-8390
FAX: (413) 594-9774



edm
architecture
engineering
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: MDB
drawn by: MDB

checked by:

approved by:

keyplans:

project north

REV.	DATE	ISSUED FOR	BY

Exhaust hood and
Equipment Plan

date: 02.11.14

project number: ews-3612

scale: as noted

drawing number:

H-105

2013 © COPYRIGHT edm

1

2

3

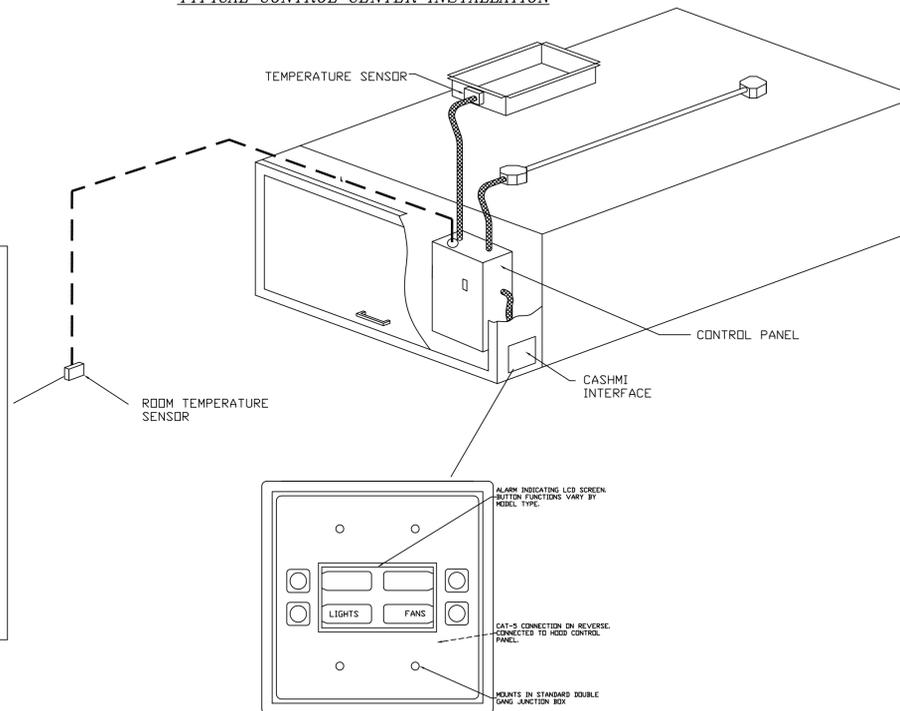
4

5

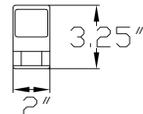
ELECTRICAL PACKAGES -- Job#1941282

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Ø	H.P.	VOLT	FLA
1		SC-211110FP	Utility Cabinet Left	Utility Cabinet Left Hood # 1	1 Light 1 Fan	Smart Controls Thermostatic Control	Exhaust	1	0.333	208	3.5
							Supply	1	0.333	208	3.5

TYPICAL CONTROL CENTER INSTALLATION



Room Override Thermostat



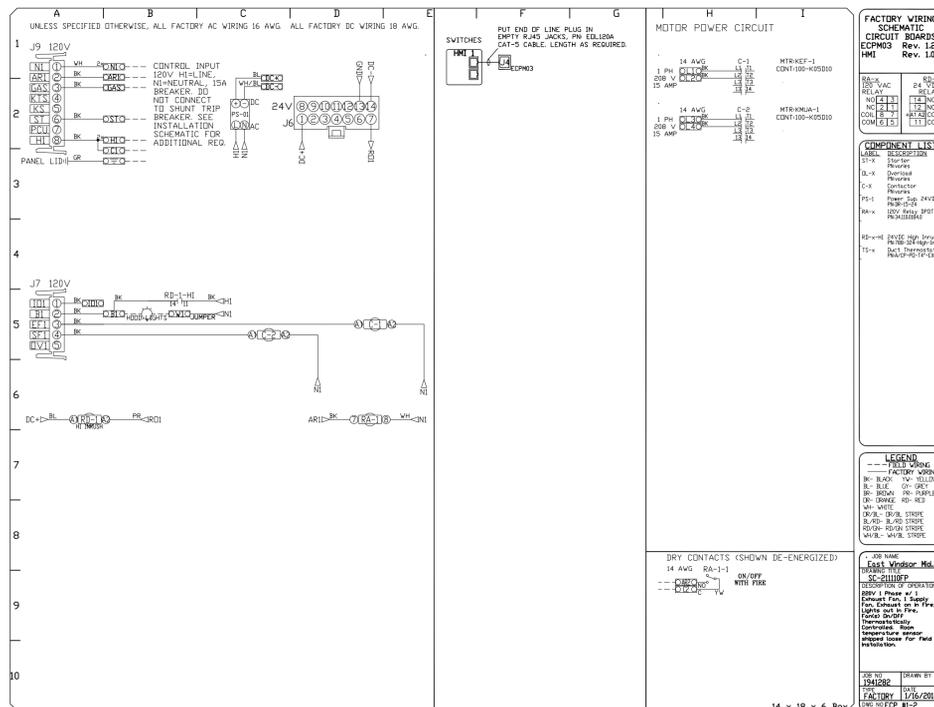
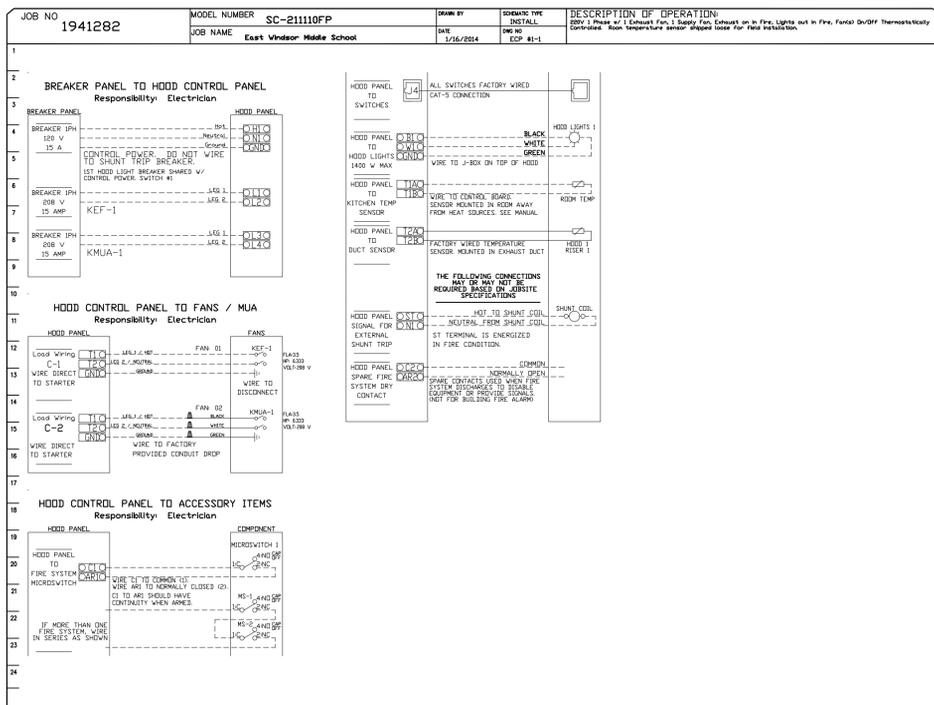
Provides room override based on temperature differential between the room and duct. Installed by electrician on a wall, 5'-6" off the finished floor, in the space but not directly under the hood or close to an appliance (including the control box) so the reading is accurate for space.

A

B

C

D



SC- SPECIFICATION:

THE ELECTRICAL PACKAGE, TYPICALLY FP, IS DESIGNED TO THERMOSTATICALLY ACTIVATE THE EXHAUST FANS FOR AN EXHAUST HOOD WHENEVER ELEVATED TEMPERATURES ARE SENSED IN THE EXHAUST SYSTEM. THIS OPTION WILL MEET THE REQUIREMENTS OF IMC 507.2.1.1 BY PROVIDING A THERMOSTAT(S) MOUNTED IN THE DUCT OR HOOD RISER TO SENSE INCREASED EXHAUST TEMPERATURES. CONTROLS SHALL BE LISTED BY ETL (UL 508A). THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.

TEMPERATURE PROBES(S) LOCATED IN THE DUCT RISER SHALL BE CONSTRUCTED OF STAINLESS STEEL. A ROOM TEMPERATURE SENSOR IS ALSO PROVIDED FOR FIELD INSTALLATION IN THE KITCHEN SPACE IN ORDER TO START THE FAN(S) BASED ON THE TEMPERATURE DIFFERENTIAL BETWEEN THE ROOM AND THE EXHAUST AIR IN THE DUCT, RATHER THAN FIXED SET-POINTS. THE SYSTEM IS FACTORY PRE-SET TO ACTIVATE THE FANS AT 10 DEG F ABOVE THE ROOM TEMPERATURE.

ONCE THE DUCT TEMPERATURE REACHES THE ACTIVATION POINT, THE EXHAUST FANS WILL BE ACTIVATED. THE CONTROLS ALSO PROVIDE HYSTERESIS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND THE HEAT IN THE EXHAUST SYSTEM IS REDUCED. THE HYSTERESIS IS FACTORY SET 2 DEGREES AND WILL KEEP THE EXHAUST RUNNING UNTIL THE TEMPERATURE FALLS 2 DEGREES BELOW THE ACTIVATION SET POINT. A HYSTERESIS TIMER ALSO EXISTS TO KEEP THE FANS RUNNING FOR AT LEAST 30 MIN AFTER BEING ACTIVATED BY THE TEMPERATURE RISE.

THE ACTIVATION AND HYSTERESIS SETTINGS MAY BE FIELD ADJUSTED ON THE BOARD LCD INTERFACE LOCATED INSIDE THE CONTROL ENCLOSURE TO MEET APPLICATION NEEDS. THE PANEL IS FACTORY CONFIGURED TO SHUT DOWN SUPPLY FANS, TURN ON THE EXHAUST FANS AND TURN OFF THE HOOD LIGHTS IN A FIRE CONDITION.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

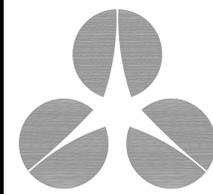
Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

FOR QUESTIONS, CALL THE
NORTHEAST REGIONAL SALES OFFICE
105 EAST STREET, CHICOPEE, MA 01020
PHONE: (888) 594-8390
FAX: (413) 594-9774



edm
architecture
engineering
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: MDB
drawn by: MDB

checked by:

approved by:

East Windsor
Middle School
Nurse's Suite

38 Main Street
Broad Brook, CT

keyplan:

project north

rev.	date:	issued for:	initials:

Exhaust hood and
Equipment Plan

date: 02.11.14

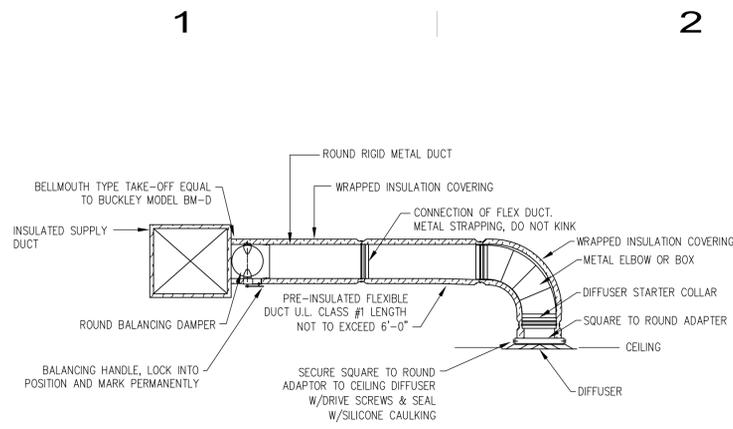
project number: ews-3612

scale: as noted

drawing number:

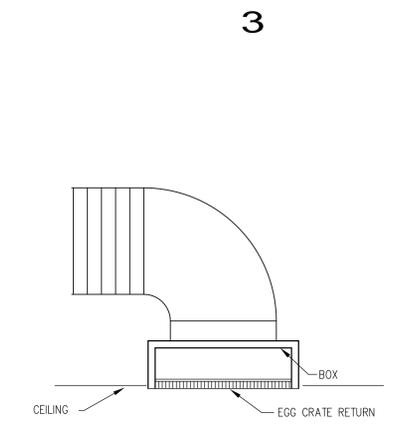
H-106

A



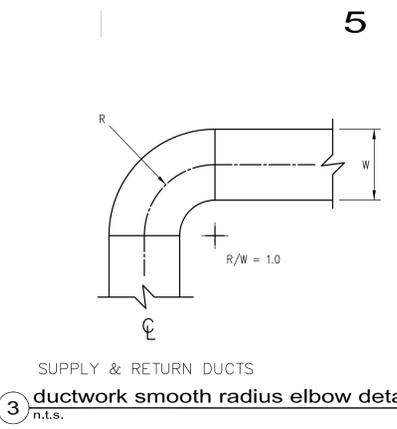
- NOTES:
1. PROVIDE AT FLEXIBLE DUCT CONNECTION METAL OR "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX. SECURE THE INSULATION OVER THE DRAW BAND WITH AN ADDITIONAL DRAWBAND.
 2. PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
 3. PROVIDE MINIMUM 2" COLLARS FOR ATTACHMENT OF THE FLEX DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
 4. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.
 5. PROVIDE 45° TAKE-OFF WHERE DUCT HEIGHT WILL NOT ACCOMMODATE A BELLMOUTH TYPE FITTING.

1 supply duct detail
n.t.s.

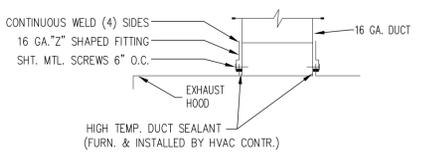


- NOTES:
1. INSTALL DUCTBOARD BOX OVER RETURN GRILLES. INSIDE COLOR TO BE BLACK.

2 return grille detail
n.t.s.

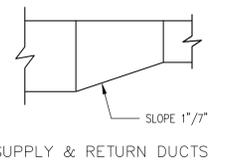


3 ductwork smooth radius elbow detail
n.t.s.

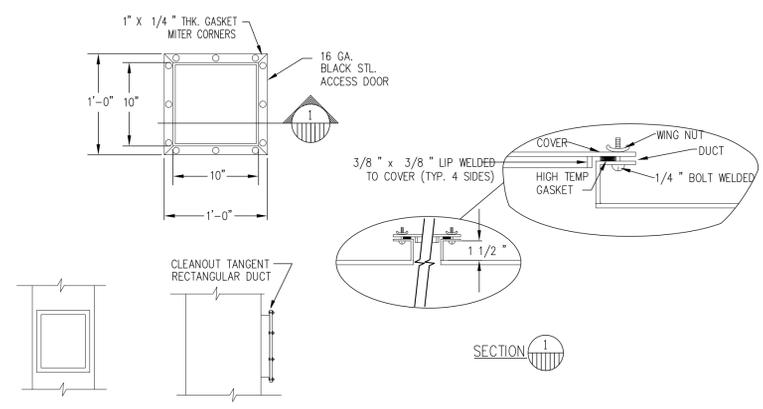


7 duct conn. to hood detail
n.t.s.

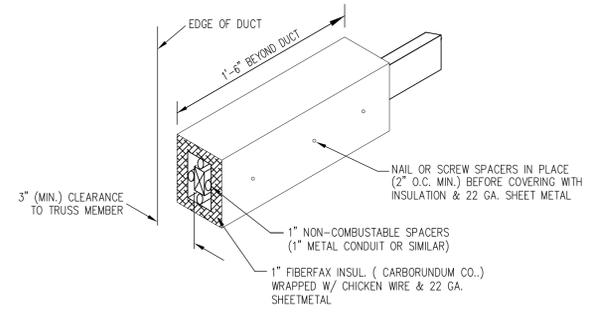
B



4 ductwork transition detail
n.t.s.

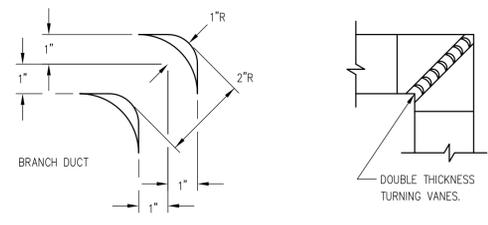


6 cleanout door detail
n.t.s.



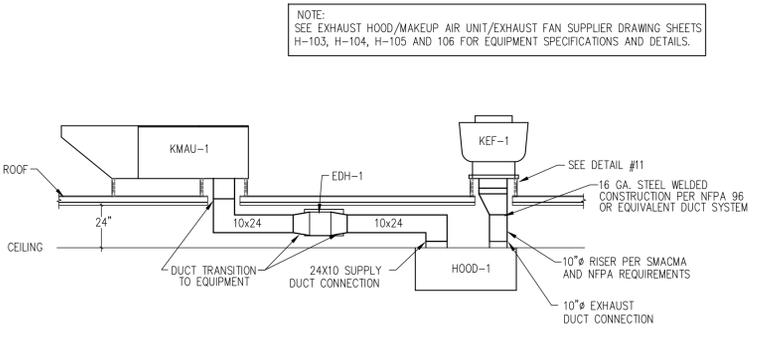
8 combustible material clearance reduction detail
n.t.s.

C



5 ductwork turning vane detail
n.t.s.

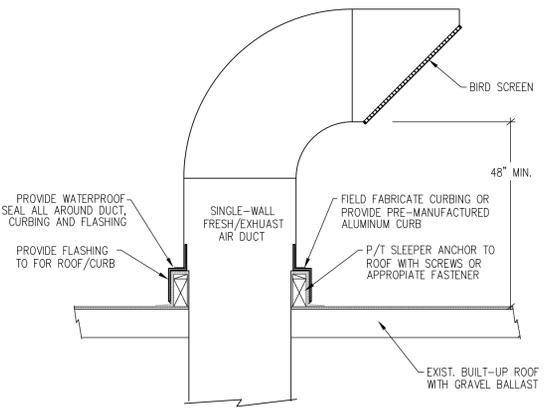
D



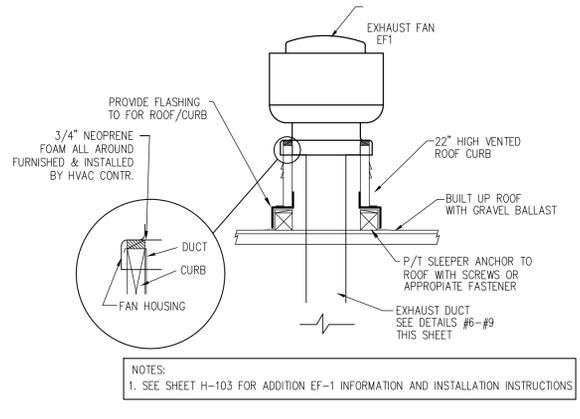
NOTE:
SEE EXHAUST HOOD/MAKEUP AIR UNIT/EXHAUST FAN SUPPLIER DRAWING SHEETS H-103, H-104, H-105 AND 106 FOR EQUIPMENT SPECIFICATIONS AND DETAILS.

9 hood equipment installation detail
n.t.s.

- Kitchen Hood Exhaust Ductwork Specs.**
1. EXHAUST DUCTWORK & SYSTEM SHALL BE IN ACCORDANCE LATEST EDITION OF NFPA 96.
 2. DUCTWORK SHALL BE CONSTRUCTED OF 16 GA STEEL.
 3. ALL DUCTWORK JOINTS SHALL BE CONTINUOUSLY WELDED.
 4. FIRE SUPPRESSION SYSTEM TO BE PROVIDED AND INSTALLED BY A PROPERLY TRAINED, QUALIFIED, AND CERTIFIED COMPANY OR PERSON(S) ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
 5. PROVIDE A MINIMUM OF 2 ACCESS DOORS OR AS REQUIRED BY CODE IF GREATER THAN 2 IN EXHAUST DUCT FOR CLEANING OF GREASE.
 6. PROVIDE EXHAUST DUCT INSTALLATION/CONSTRUCTION ACCORDING TO STATE, LOCAL AND FEDERAL CODES THAT WILL ALLOW FOR PROPER CLEARANCES TO COMBUSTIBLE MATERIALS.
 7. CONTRACTOR TO FIELD VERIFY AND PROVIDE TRANSITIONS TO HVAC EQUIPMENT AND AROUND BUILDING STRUCTURES AS REQUIRED TO INSTALL DUCTWORK BETWEEN HOOD AND EF-1/MAU-1
 8. PROVIDE CLEAN OUT DOORS AT ALL CHANGES IN DIRECTION.
 9. GENERAL CONTRACTOR TO COORDINATE WHO FABRICATES AND INSTALLS KITCHEN HOOD EXHAUST DUCTWORK.
 10. INSULATE EXHAUST DUCT WITH INSULATION RATED FOR EXHAUST HOOD DUCTWORK APPLICATIONS AND TEMPERATURE. SUBMIT OF PRODUCT TO BE USED FOR APPROVAL.
 11. PROVIDE CLEARANCES FOR DUCTWORK AS REQUIRED FOR INSULATION TYPE BEING USED.



10 intake exhaust gooseneck detail
n.t.s.



- NOTES:
1. SEE SHEET H-103 FOR ADDITION EF-1 INFORMATION AND INSTALLATION INSTRUCTIONS

11 exhaust fan installation detail
n.t.s.



edm
architecture
engineering
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: MDB
drawn by: MDB
checked by:

approved by:

East Windsor
Middle School
Nurse's Suite

38 Main Street
Broad Brook, CT

keyplans:



rev.	date	issued for	initials

HVAC Details

date: 02.11.14

project number: ews-3612

scale: as noted

drawing number:

H-201

2014 © COPYRIGHT edm



edm

architecture
engineering
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: MDB
drawn by: MDB

checked by:

approved by:

East Windsor
Middle School
Nurse's Suite

38 Main Street
Broad Brook, CT

keyplan:



rev.	date	issued for:	initials

Plumbing Plans

date: 02.11.14

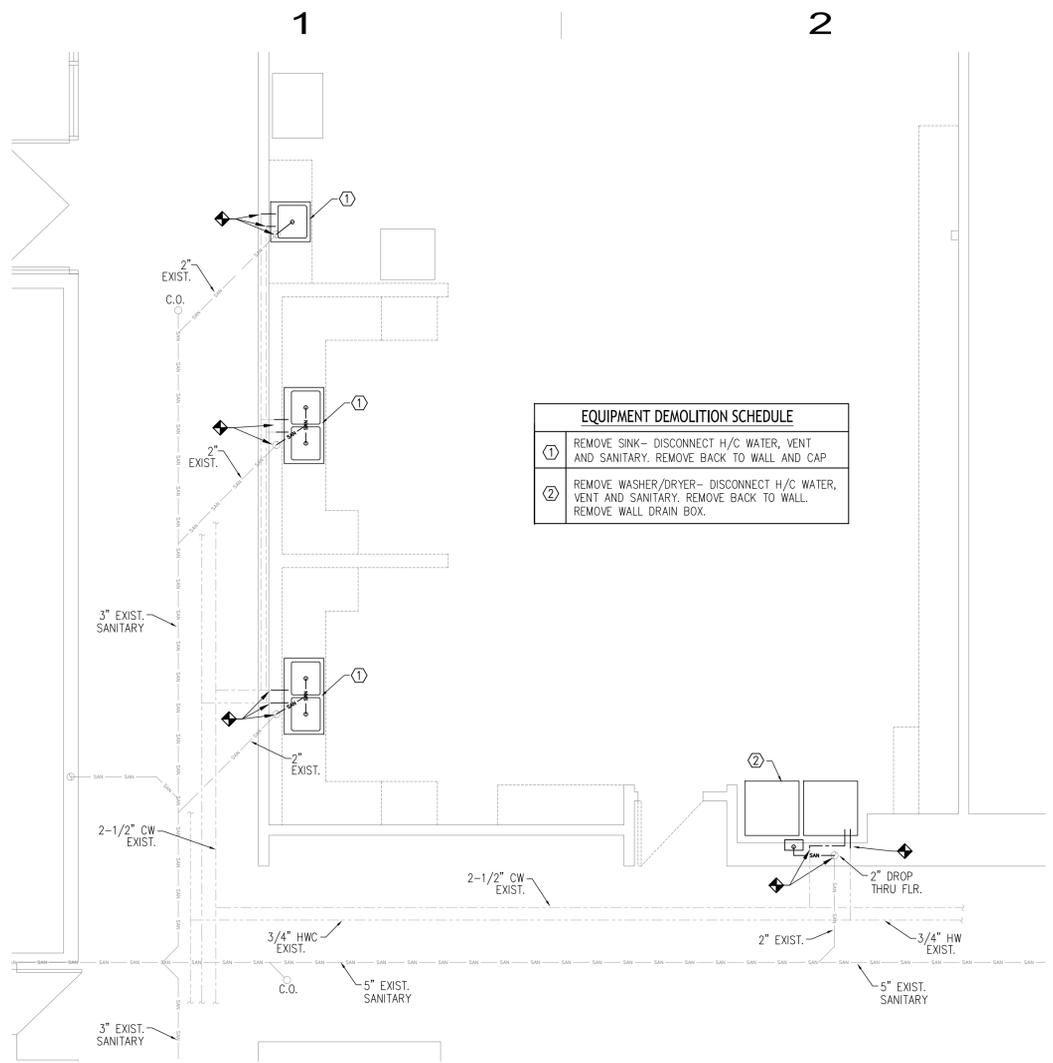
project number: ews-3612

scale: as noted

drawing number:

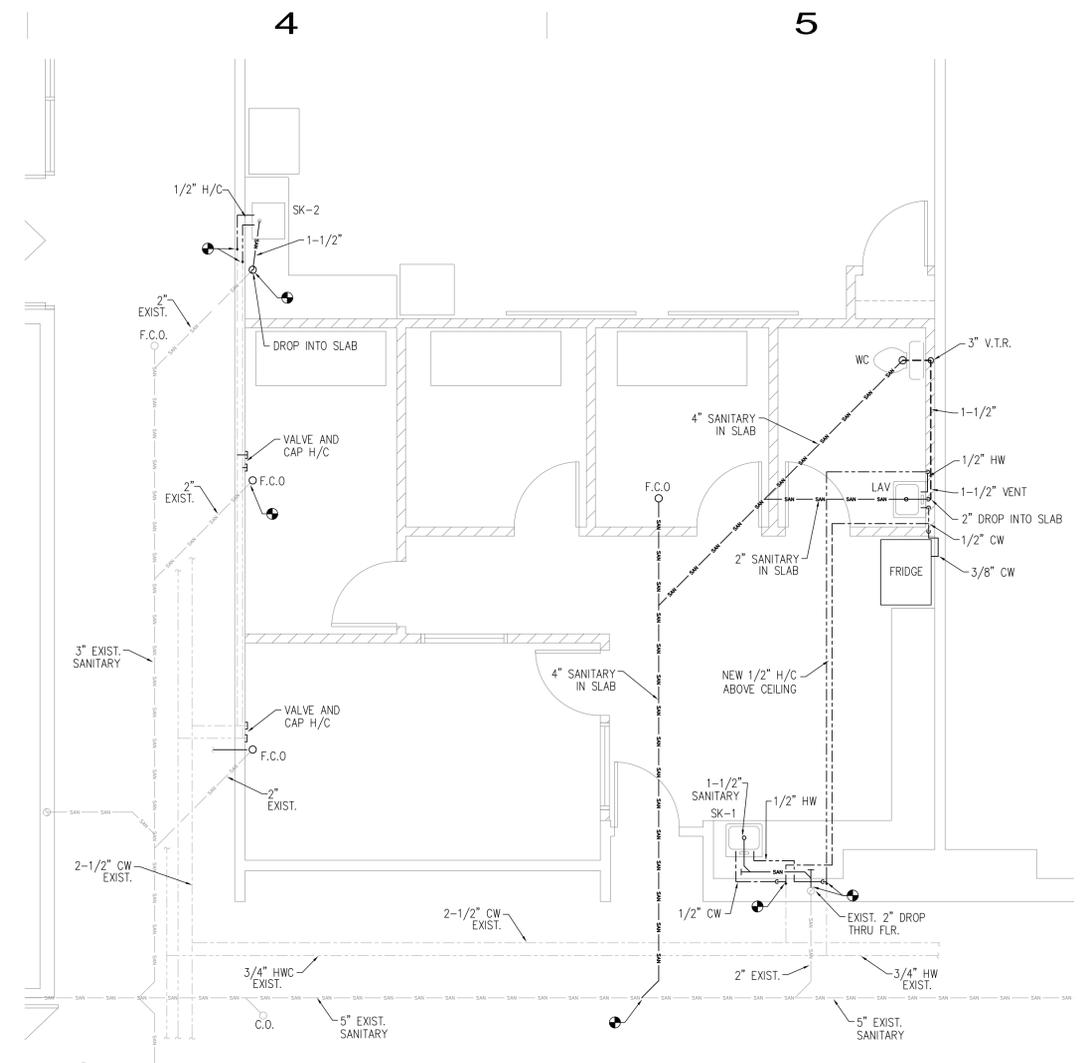
P-101

2013 © COPYRIGHT edm

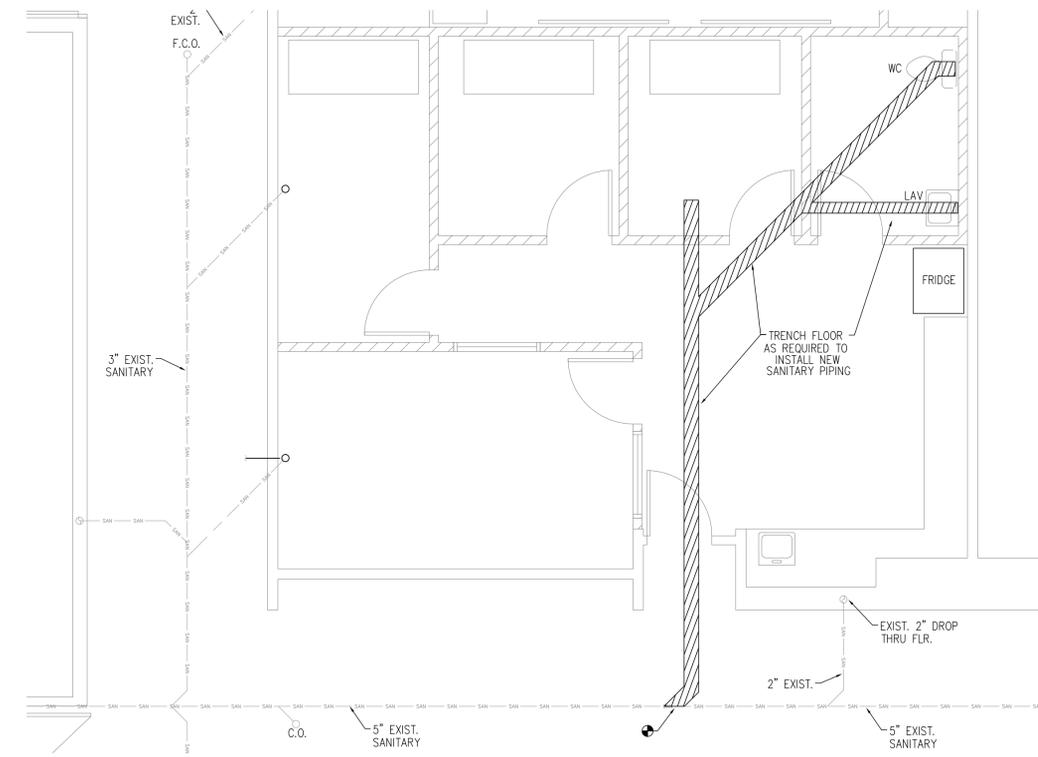


1 plumbing demolition plan
1/4"=1'-0"

— SAN —	SANITARY (EXIST.)	— HW —	HOT WATER
— SAN —	SANITARY	— HW —	HOT WATER (EXIST.)
- - - SAN - - -	SANITARY VENT BELOW SLAB	- - - GAS - - -	GAS PIPING (EXIST.)
- - - SAN - - -	SANITARY VENT ABOVE SLAB	- - - GAS - - -	GAS PIPING
- - - SAN - - -	SANITARY VENT (EXIST.)	C.O.	CLEAN OUT
- - - CW - - -	COLD WATER	F.C.O.	CLEAN OUT
- - - CW - - -	COLD WATER (EXIST.)	SK-#	SINK
		LAV	LAVATORY
		WC	WATER CLOSET



3 new plumbing plan
1/4"=1'-0"



2 plumbing trenching plan
1/4"=1'-0"

GENERAL DEMOLITION NOTES:

- REMOVE PIPING FROM ALL EQUIPMENT BEING REMOVED, REPLACED OR RELOCATED AS SHOWN ON DRAWINGS.
- CAPPED ALL UNUSED WATER DRAIN AND VENT PIPING RESULTING FROM EQUIPMENT REMOVAL AND OR RELOCATION.
- ANY PIPING REMOVED RESULTING FROM IDENTIFIED DEMOLITION THAT WILL INTERRUPT FUTURE OPERATION OF EXISTING FIXTURES TO BE REPAIRED/REPLACED AS REQUIRED.
- CONTRACTOR TO PROPERLY REMOVE AND DISPOSE OF ALL DEMOLITION MATERIALS IN ACCORDANCE WITH ALL STATE/FEDERAL CODES, LAW AND REGULATIONS.
- CONTRACTOR TO PROVIDE ALL EQUIPMENT AND DUMPSTERS AS REQUIRED FOR DEMOLITION IDENTIFIED ON THE CONTRACT DOCUMENTS. COORDINATE AVAILABLE AREAS FOR DUMPSTER LOCATION WITH OWNER.
- DEMOLITION LAYOUT IS DIAGRAMATIC AND LOCATIONS OF PLUMBING PIPING/EQUIPMENT MAY VARY SLIGHTLY. CONTRACTOR FIELD VERIFY AS REQUIRED.

TRENCHING NOTES:

- TRENCH FLOOR AS REQUIRED TO INSTALL NEW SANITARY/VENT PIPING AND CONNECT TO EXISTING SANITARY SYSTEM. FLOOR TO BE REPAIRED TO MATCH EXISTING ELEVATION AND MATERIAL OF EXISTING FLOOR.

1

2

3

4

5

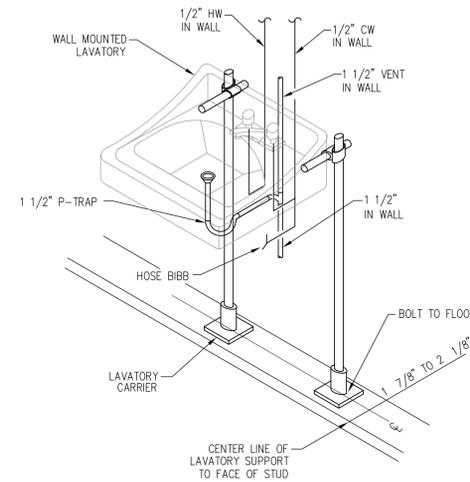
Plumbing Notes:

1. CONTRACTOR RESPONSIBLE FOR INSTALLING ALL DRAIN AND SANITARY PIPING AT PROPER ELEVATIONS TO OBTAIN PROPER PITCH AND CONNECTIONS TO NEW MAIN DRAIN AND SANITARY PIPING OUTSIDE OF BUILDING.
2. PLUMBING CONTRACTOR TO COORDINATE ALL PIPING AND VENT LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
3. ALL WORK TO BE DONE IN ACCORDANCE WITH FEDERAL, STATE & LOCAL BUILDING AND PLUMBING CODES.
4. THE SANITARY DRAINAGE SYSTEM IS NOT INTENDED FOR CORROSIVE OR HAZARDOUS WASTES.
9. PROVIDE BACKFLOW PREVENTORS ON ALL WATER CONNECTIONS TO EQUIPMENT AS REQUIRED BY ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES.
10. PLUMBING CONTRACTOR RESPONSIBLE TO FIELD VERIFY ACTUAL LOCATIONS OF EXISTING VENT AND HOT WATER PIPING LOCATIONS ABOVE CEILING/IN WALLS THAT ARE TO BE UTILIZED AS SHOWN ON DRAWINGS.
11. PROVIDE TRAP IN ALL INDIRECT WASTE PIPING IF PIPING EXCEEDS 2' IN DEVELOPED LENGTH MEASURED HORIZONTALLY OR 4' IN TOTAL DEVELOPED LENGTH.
12. PROVIDE ALL DIELECTRIC FITTINGS AS REQUIRED.
13. ALL GAS/PLUMBING PIPING CONNECTIONS/INSTALLATIONS TO BE DONE USING CODE APPROVED METHODS AND MATERIALS.
14. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
15. ALL PLUMBING TO BE DONE BY A CONTRACTOR LICENSED TO DO SUCH WORK IN THE LOCATION.
16. PLUMBING CONTRACTOR IS TO OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS
17. WATER PIPE TO BE COPPER, TYPE K OR L HARD DRAWN. FURNISH CHROME INDIVIDUAL FIXTURE VALVES, INSULATE ALL HOT AND COLD WATER SUPPLY PIPES WITH 1/2" ARMAFLEX OR EQUAL.
18. FURNISH ALL CHROME ESCUTCHEONS AND TRIM PLATES.
19. CONTRACTOR TO PROVIDE AND INSTALL ALL SANITARY/VENT PIPING AS REQUIRED BY THE EQUIPMENT MANUFACTURER AND BY STATE AND LOCAL CODES.
20. CONTRACTOR TO INSTALL SANITARY PIPING WITH PROPER PITCH TO MEET ALL LOCAL AND STATE CODES.
21. CONTRACTOR TO PROVIDE ALL TRAP PRIMERS AND ASSOCIATED PIPING FOR FLOOR DRAINS, FLOOR SINKS AND INDIRECT DRAINS AS REQUIRED.
22. CONTRACTOR RESPONSIBLE FOR INSTALLING ALL DRAIN AND SANITARY PIPING AT PROPER ELEVATIONS TO OBTAIN PROPER PITCH AND CONNECTIONS TO EXISTING SANITARY PIPING.
23. IT'S THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND INSTALL ALL THE REQUIRED COMPONENTS FOR A COMPLETE AND OPERATIONAL PLUMBING SYSTEM.
24. PROVIDE VACUUM BREAKER ON COLD WATER PIPING TO FIXTURES AS REQUIRED.
25. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
26. FURNISH WATER HAMMER ARRESTORS FOR EACH PIPING SYSTEM.
27. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.

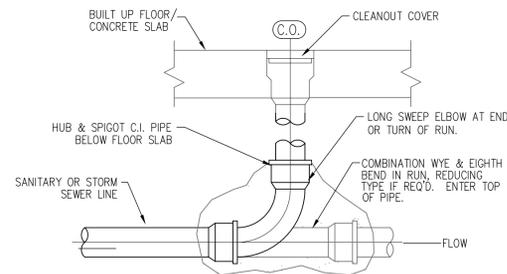
Plumbing Fixture Schedule					
ITEM	FIXTURE	MFGR.	MODEL #	DESCRIPTION	REMARKS
WC	WATER CLOSET	AMERICAN STANDARD	2386.012	A.D.A. HEIGHT, FLOOR MOUNTING TOILET WITH ELONGATED BOWL AND 1.6 GPF	①
LAV	LAVATORY	AMERICAN STANDARD	0958.000 -MURRO	A.D.A. W/0059.020 KNEE GUARD AND AMERICAN STANDARD FAUCET: 6501.170 W/ 8" CENTERS	
SK-1	SINK	ELKAY	LRAD1316	STAINLESS STEEL SINGLE BOWL SINK WITH 3 HOLES 4" O.C. , 5-1/2" DEPTH A.D.A. W/ELKAY FAUCET: LK02445BH WITH BLADE HANDLES AND 8" CENTERS TRUEBRO LAVGUARD 2	
SK-2	SINK	ELKAY	LRAD1918	STAINLESS STEEL SINGLE BOWL SINK WITH 4 HOLES 4" O.C. , 5-1/2" DEPTH A.D.A. W/ELKAY FAUCET: LK0231 WITH 8" CENTERS TRUEBRO LAVGUARD 2	

NOTE: LISTED MANUFACTURE USED AS A BASELINE. OTHER MANUFACTURES MAY BE USED BUT MUST BE APPROVED BY THE ENGINEER.

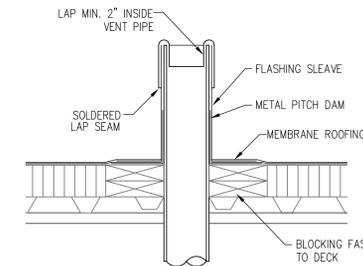
① ANTI-MICROBIAL AGENT TOILET SEAT



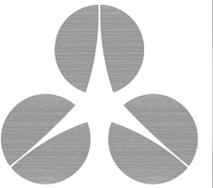
1 lavatory detail
n.t.s.



2 floor cleanout detail
n.t.s.



3 plumbing vent thru roof detail
n.t.s.



edm

architecture
•
engineering
•
management

pittsfield, ma
unionville, ct

(888) 336-6500

team@edm-ae.com

consultants:

design by: MDB

drawn by: MDB

checked by:

approved by:

East Windsor
Middle School
Nurse's Suite

38 Main Street
Broad Brook, CT

keyplan:

project north

rev: date: issued for: initials:

Plumbing Notes,
Details and Schedules

date:

02.11.14

project number:

ews-3612

scale:

scale: as noted

drawing number:

P-201

FIRE ALARM SYSTEM LEGEND

- FIRE ALARM MANUAL PULL STATION MOUNTED AT 42" AFF
FIRE ALARM HEAT DETECTOR - CEILING MOUNTED
HEAT DETECTOR - IN GENERAL AREAS 135' F.
HEAT DETECTOR - IN ATTIC AREAS 194' F.
CARBON MONOXIDE DETECTOR
FLOW SWITCH
MONITOR MODULE
SPRINKLER TAMPER SWITCH
FIRE ALARM NOTIFICATION HORN WALL MOUNTED AT 80-90" AFF
FIRE ALARM NOTIFICATION STROBE WALL MOUNTED AT 80-90" AFF
FIRE ALARM NOTIFICATION HORN/STROBE WALL MOUNTED AT 80-90" AFF
TEST STATION, MH = 78" AFF, UON
MAGNETIC DOOR HOLDER
RELAY MODULE
LOCKED BOX FOR KEY
CALL FOR AID SWITCH
FIRE ALARM CONTROL PANEL

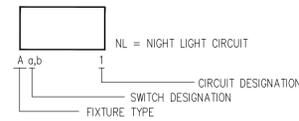
SWITCHING & WIRING LEGEND

- TOGGLE SWITCH, SINGLE POLE, SUBSCRIPT INDICATES TYPE
3 = THREE WAY
4 = FOUR WAY
M = MOMENTARY CONTACT SWITCH
D = DIMMER
K = KEY SWITCH
O = OCCUPANCY SENSOR
T = SPRING WOUND TIMER 6 HOUR
L = INDICATOR LAMP (ILLUMINATED WHEN ON)
a,b,c = SWITCHING DESIGNATION, NUMBER OF LETTERS EQUALS NUMBER OF GANGED SWITCHES
DAYLIGHT SENSOR, CEILING MOUNTED
OCCUPANCY SENSOR CEILING MOUNTED
DT = DUAL TECH, H = HALLWAY
HOMERUN TO DESIGNATED PANELBOARD, (#=NUMBERS INDICATE CIRCUIT NUMBERS)
DUPLEX TAMPER PROOF RECEPTACLE, SUBSCRIPT INDICATES TYPE
QUAD TAMPER PROOF RECEPTACLE, SUBSCRIPT INDICATES TYPE
WEATHERPROOF "IN USE" COVER
GROUND FAULT INTERRUPTING
SURGE SUPPRESSION
INSTALLED ABOVE COUNTER (48" AFF UON)
INSTALLED BELOW COUNTER
HOSPITAL GRADE
ISOLATED GROUND
SPECIAL PURPOSE RECEPTACLE - 14-50R
DISCONNECT SWITCH
FUSED DISCONNECT SWITCH
JUNCTION BOX - SURFACE MOUNTED
JUNCTION BOX - FLUSH MOUNTED
PANELBOARD

TELECOMMUNICATIONS SYSTEM LEGEND

- TELEPHONE/DATA OUTLET LOCATION, (T=TELEPHONE,D=DATA)
MH = 18" AFF, UON, DOUBLE GANG OUTLET BOX WITH 1-1" EMT TO CABLE TRAY OR SPACE ABOVE SUSPENDED CEILING. PROVIDE PLASTER RING. # INDICATES TOTAL NUMBER OF JACKS AND CABLES REQUIRED. IF NO NUMBER IS INDICATED #D=2, #T=2.
DATA OUTLET LOCATION, MH = 18" AFF, UON, DOUBLE GANG OUTLET BOX WITH (1) 1" EMT TO CABLE TRAY OR SPACE ABOVE SUSPENDED CEILING. PROVIDE PLASTER RING. # INDICATES TOTAL NUMBER OF JACKS AND CABLES REQUIRED. IF NO NUMBER IS INDICATED # = 2.
TELEPHONE OUTLET LOCATION, MH = 18" AFF, UON, DOUBLE GANG OUTLET BOX WITH (1) 1" EMT TO CABLE TRAY OR SPACE ABOVE SUSPENDED CEILING. PROVIDE PLASTER RING. # INDICATES TOTAL NUMBER OF JACKS AND CABLES REQUIRED. IF NO NUMBER IS INDICATED # = 1.
TELECOM NOTES:
W = WALL PHONE, MH = 48"
AC - ABOVE COUNTER (COORD. WITH ARCH.)
F - FLOOR MOUNTED
FOR VOIP PHONE SYSTEMS, FINISH AND INSTALL COMMUNICATIONS CABLE TO DATA CLOSET.
UON, FURNISH AND INSTALL CAT 6 DATA CABLES AND TERMINATE IN DATA CLOSET.

TYPICAL LIGHT FIXTURE



EMERGENCY FIXTURE

- EMERGENCY FIXTURE
EMERGENCY EGRESS FIXTURE, DUAL REMOTE HEAD

ONE LINE LEGEND

- DC WIRING
SWITCHED CIRCUIT
NEW WIRE OR DEVICE
CIRCUIT BREAKER
SHUNT-TRIP CIRCUIT BREAKER
FUSED DISCONNECT SWITCH
TRANSFORMER
UTILITY METER
GROUND
PANELBOARD (MAIN LUG)

DRAWING NOTES:

- *x = UNIT ID LISTED IN ELECTRICAL EQUIPMENT AND CONTROL SCHEDULE
DENOTES DRAWING REVISION

GENERAL NOTES

- THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS.
THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF THE ENGINEER WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.
ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, NFPA, IBC, UL, SMACNA, OSHA, AND NEC.
CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.
CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS, OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.
DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.
IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE RENDERED HARMLESS.

ELECTRICAL TRADE NOTES

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND THE CURRENT NATIONAL ELECTRICAL CODE (NEC) BY ELECTRICIANS LICENSED BY THE STATE IN WHICH THE WORK IS PERFORMED.
THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLING ANY CONDUIT AND/OR CABLE. IF ELECTRICAL REQUIREMENTS DIFFER FROM THOSE INDICATED, OR IF ADDITIONAL EQUIPMENT IS REQUIRED BY CODE, INFORM THE ENGINEER.
WIRING FOR ALL SINGLE PHASE CIRCUITS, 20A OR SMALLER, SHALL BE A MINIMUM OF 2#12~-1/2" FOR CIRCUIT LENGTHS UNDER 100FT, UNLESS OTHERWISE NOTED. SEE PANELBOARD SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES. SIZE CONDUIT USING NEC TABLES, UON. CIRCUITS FOR DOUBLE SWITCHED LIGHT FIXTURES SHALL INCLUDE ADDITIONAL SWITCHED CONDUCTOR(S) AS REQUIRED.
MOUNTING HEIGHTS GIVEN FOR ALL WIRING DEVICES (WALL SWITCHES, RECEPTACLES, ETC.), FIRE ALARM DEVICES, TELEPHONE EQUIPMENT, SPEAKERS AND LIGHT FIXTURES ARE TO THE CENTERLINE OF THE JUNCTION BOX USED TO MOUNT THE DEVICE, UNLESS OTHERWISE NOTED.
CIRCUIT WIRING AND CONDUIT ROUTING INDICATED ON DRAWINGS IS SCHEMATIC IN NATURE AND SHALL BE ROUTED IN THE FIELD, UNLESS OTHERWISE NOTED.
COORDINATE FINAL LOCATIONS OF CEILING LIGHT FIXTURES AND OTHER EQUIPMENT WITH REFLECTED CEILING PLANS AND ALL OTHER TRADE DRAWINGS PRIOR TO INSTALLATION.
WHERE LONG CIRCUIT LENGTHS ARE REQUIRED, ENSURE LESS THAN 3% VOLTAGE DROP UNDER FULL LOAD. INCREASE WIRE SIZE ON CIRCUITS 100 FEET LONG AND ABOVE.
PROVIDE AND ENSURE FIREPROOFING OF ALL CONDUIT, CABLING AND ANY OTHER ELECTRICAL DEVICES THROUGH FIRE RATED ASSEMBLIES.
PROVIDE PULL STRINGS IN ALL CONDUIT SYSTEMS LEFT FOR USE BY OTHERS.
PROVIDE EXPANSION FITTINGS IN CONDUIT RISERS FROM ALL EXTERIOR UNDERGROUND CONDUITS TO FIXED EQUIPMENT OR CONDUIT FITTINGS AND PROVIDE FLEXIBLE CONNECTIONS TO ANY EQUIPMENT SUBJECT TO SETTLEMENT OR FROST HEAVES.
CONNECT EXIT AND EMERGENCY LIGHTING UNITS TO LOCAL LIGHTING CIRCUIT, AHEAD OF SWITCHING, OR TO LOCAL NIGHT LIGHT CIRCUIT.
THE MODEL NUMBERS FOR LIGHTING FIXTURES ARE ABBREVIATED AND NOT COMPLETE AND DO NOT INCORPORATE ALL OPTIONS AND ACCESSORIES REQUIRED BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL VERIFY THROUGH THE SUPPLIER THE FIXTURE OPTIONS ARE INCLUDED WITH ALL FIXTURES.
ELECTRICAL DEVICES MOUNTED ON OPPOSING SIDES OF A COMMON WALL:
13.1. FIRE RATED WALL: DEVICES SHALL NOT LOCATED BE IN SAME STUD CAVITY.
13.2. SOUND RATED WALL: DEVICES SHALL NOT BE LOCATED IN SAME STUD CAVITY AND MAY REQUIRE ADDITIONAL SEPARATION. VERIFY WITH ARCHITECTURAL DRAWING.
ELECTRICAL GROUNDING SHALL BE MADE TO BUILDING STEEL WHEN AVAILABLE. WHERE BUILDING STEEL IS NOT AVAILABLE, GROUND RODS MAY BE REQUIRED AND/OR EQUIPMENT GROUNDED AT THE SERVICE ENTRANCE.

RENOVATION NOTES

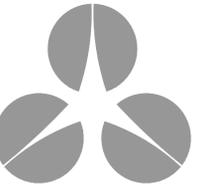
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE INTEGRITY AND CONDITION OF THE EXISTING BRANCH CIRCUIT WIRING WHICH IS TO BE REUSED FOR NEW EQUIPMENT CIRCUITING ACCORDING TO THE NATIONAL ELECTRIC CODE. ALL DAMAGED WIRING OR WIRING FOUND TO BE NONFUNCTIONAL SHALL BE REPLACED.
EXISTING BRANCH CIRCUITS SHALL BE EXTENDED AND CONNECTED TO ALL EXISTING RELOCATED EQUIPMENT, AS REQUIRED FOR A COMPLETE WORKING SYSTEM.
RECONNECT ALL EXISTING CIRCUITING WHICH ORIGINATES OR PASSES THROUGH THE RENOVATED AREAS BUT SERVES OTHER AREAS NOT BEING RENOVATED. EXTEND THESE CIRCUITS AS MAY BE NECESSARY TO THE EXISTING PANELBOARDS. UTILIZE SPARE CIRCUIT BREAKERS.
DEMOLITION WORK SHALL BE DONE BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK CONCERNING EXISTING EQUIPMENT AND SERVICES REMAINING IN THE BUILDING.
THE ELECTRICAL CONTRACTOR SHALL RETURN ALL REMOVED EXISTING EQUIPMENT TO THE OWNER AT A LOCATION DESIGNATED BY THE OWNER.
LIGHT SOLID LINE DENOTES EXISTING EQUIPMENT.
DARK SOLID LINE DENOTES NEW OR DEMOLITION EQUIPMENT.
EXISTING EQUIPMENT TO BE REMOVED AND DELIVERED TO OWNER. CIRCUIT SHALL BE PULLED BACK FROM NEXT ACTIVE OUTLET/BACK TO PANEL. REMOVE JUNCTION BOXES, AND PATCH WALL. BLANK PLATES NOT PERMITTED.
EXISTING EQUIPMENT TO REMAIN.
EXISTING EQUIPMENT TO BE REMOVED AND NEW EQUIPMENT AS SPECIFIED INSTALLED ON EXISTING CIRCUIT IN ORIGINAL LOCATION.
EXISTING DEVICE TO BE REMOVED, OUTLET BLANKED AND CIRCUIT EXTENDED TO NEW EQUIPMENT AS SHOWN.
EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED. REMOVE JUNCTION BOXES, AND PATCH WALL. BLANK PLATES NOT PERMITTED.
NEW LOCATION OF RELOCATED EXISTING EQUIPMENT.
IF APPLICABLE, ANY CHANGES TO THE ELECTRICAL SYSTEM WHICH NECESSITATE AN ARC-FLASH RE-CALCULATION/RE-CERTIFICATION SHALL BE THE RESPONSIBILITY OF THE OWNER.

ABBREVIATIONS

- AC COUNTER HEIGHT (INDICATED ADJACENT TO DEVICE)
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AHU AIR HANDLING UNIT *
CATV CABLE TV
CLG CEILING MOUNTED
DC DATA CONTRACTOR
DWG DRAWING
EC ELECTRICAL CONTRACTOR
EF EXHAUST FAN *
EHH ELECTRICAL HANDHOLE
FLR FLOOR MOUNTED DEVICE OR EQUIPMENT
FPTV FLAT PANEL TV
HP HORSEPOWER
MC MECHANICAL CONTRACTOR
MH MOUNTING HEIGHT
NTS NOT TO SCALE
OOS OUT OF SERVICE
RTU ROOF TOP UNIT *
SC SECURITY CONTRACTOR
TYP TYPICAL
UG UNDERGROUND
UON UNLESS OTHERWISE NOTED
WG WIRE GUARD
WP WEATHER PROOF
WUH WALL MOUNTED UNIT HEATER *
* EQUIPMENT PROVIDED BY MECHANICAL TRADE, WIRED BY ELECTRICAL TRADE
** EQUIPMENT PROVIDED BY DOOR HARDWARE TRADE, WIRED BY ELECTRICAL TRADE

MECHANICAL EQUIPMENT SCHEDULE

Table with columns: EQUIPMENT TAG, EQUIPMENT, CHARACTERISTICS, VOLTS, PH, PANEL, CIRCUIT BREAKER, FEEDER, CONNECTION, REMARKS. Rows include Condenser Unit, Evaporator(s), Make-up Air Unit, Exhaust Fan (Hood), Fresh Air Fan, Exhaust Fan, and Electric Duct Heater.



edm
architecture
engineering
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: EJM
drawn by: PHC

checked by:

approved by:

East Windsor Middle School Nurse's Suite

38 Main Street Broad Brook, CT

keyplan:

Table with columns: rev, date, issued for, install

electrical notes and legend

date: 02.11.14

project number: ews-3612

scale: no scale

drawing number:

E-001



edm
architecture
engineering
management

pittsfield, ma
unionville, ct

(888) 336-6500
team@edm-ae.com

consultants:

design by: EJM drawn by: PHC

checked by:

approved by:

**East Windsor
Middle School
Nurse's Suite**

38 Main Street
Broad Brook, CT

keyplan:

project
north

rev. date issued for initials

**electrical
power plan**

date:
02.11.14

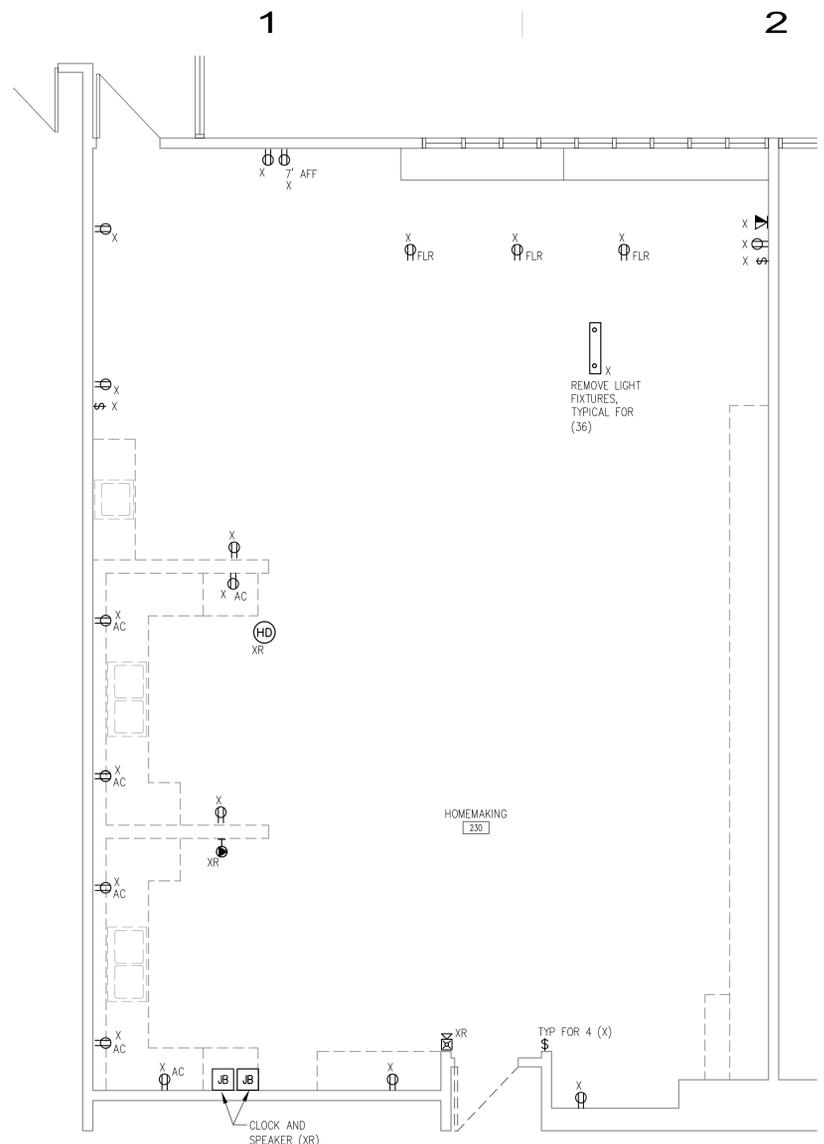
project number:
ews-3612

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

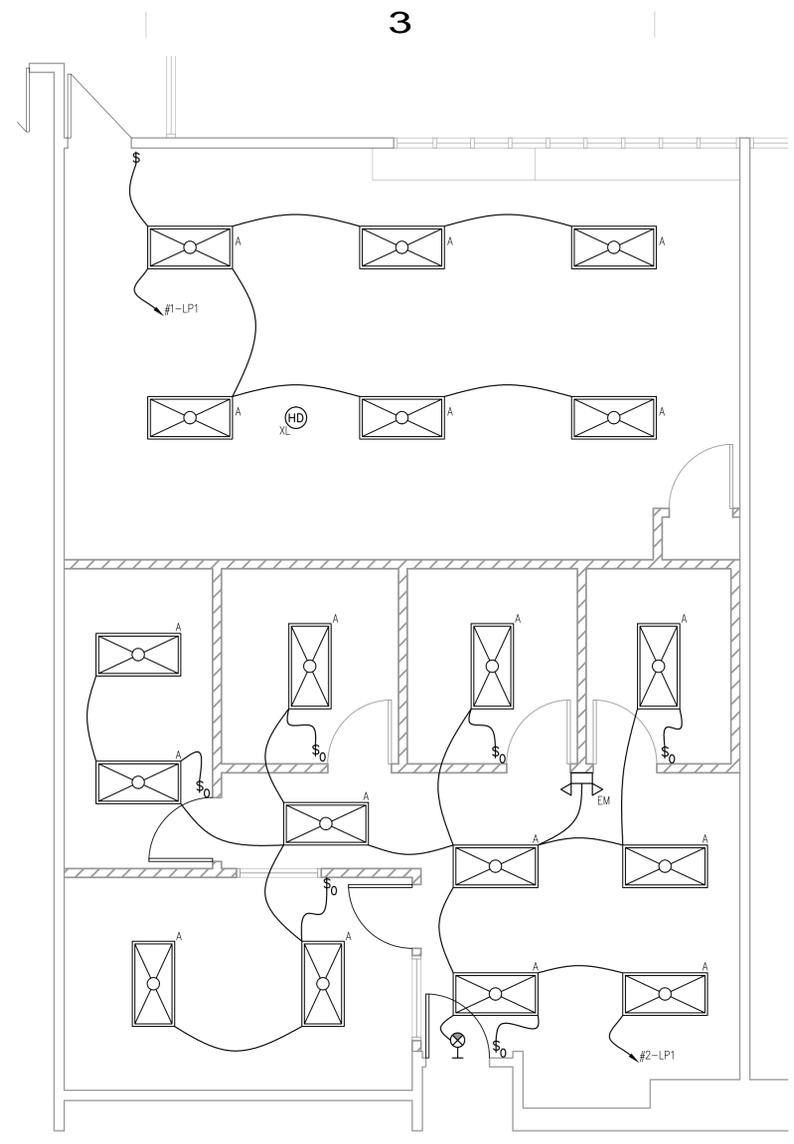
drawing number:

E-101

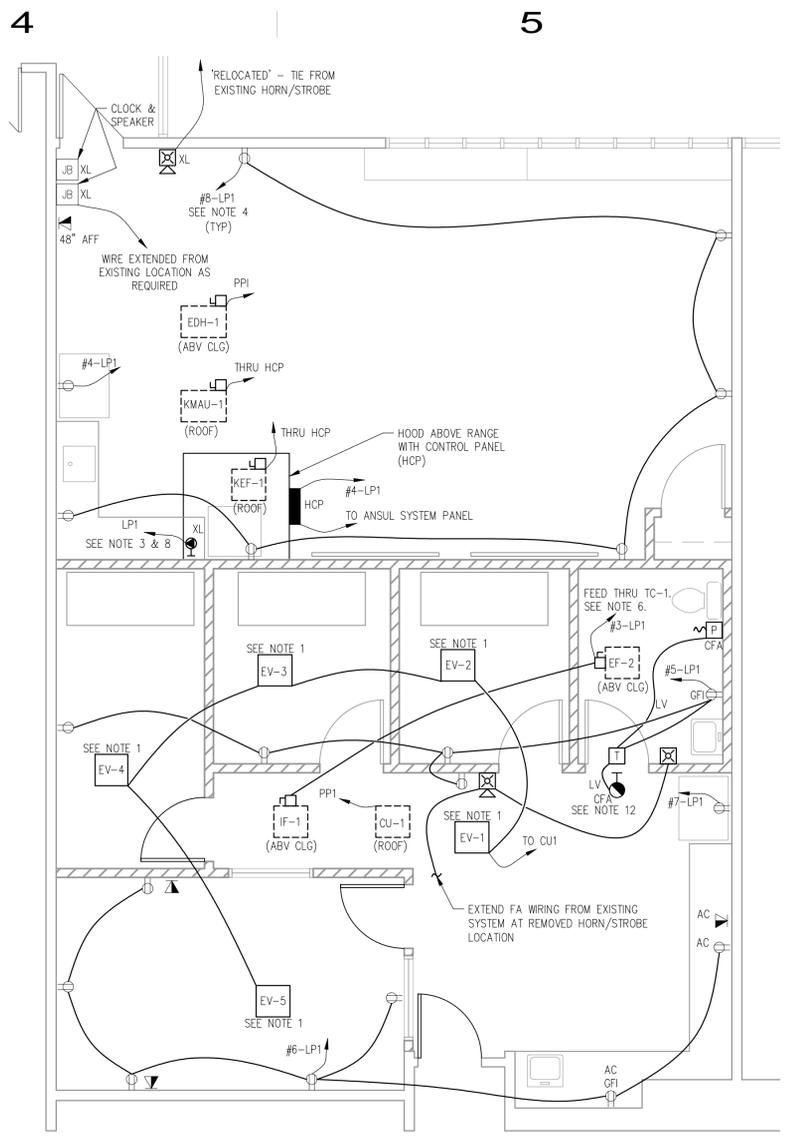
2019 © COPYRIGHT edm



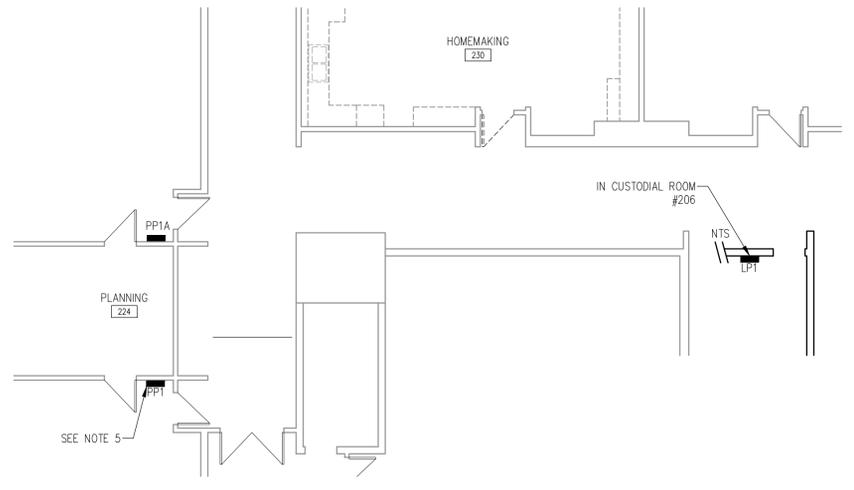
1 demolition plan
1/4"=1'-0"



2 lighting plan
1/4"=1'-0"



3 power plan
1/4"=1'-0"



4 panel location plan
1/8"=1'-0"

LIGHT FIXTURE SCHEDULE							
SYMBOL	TYPE	DESCRIPTION	MANUFACTURER / FIXTURE PART #	BULB QUAN	BULB TYPE	VOLTAGE	NOTES
	A	2X4 RECESSED FIXTURE, T8 FLUORESCENT, 120V BALLAST	LITHONIA: #2V78 -2-32-ADP-MVOLT-GEB10PS	2	32W, T8	120	-
	EXS	THERMOPLASTIC HOUSING LED ILLUMINATED UNIVERSAL MOUNTING EXIT SIGN WITH NICKEL-CADMIUM BATTERY, RED FACE, WHITE ENCLOSURE	LITHONIA: #LOM-S-W-3-R-120/277-ELN	-	LED	120	-
	EM	EMERGENCY LIGHTING BATTERY AND CHARGER WITH TWO INTEGRAL LED HEADS	LITHONIA: #ELM618-N	-	LED	120	-

NOTES:

- PROVIDE POWER FROM (1) CONDENSER UNIT (ON ROOF) TO EACH FAN UNIT (IN CEILING).
- FURNISH AND INSTALL (2) CAT 6 COMMUNICATIONS CABLES FROM EACH DATA JACK SHOWN TO EXISTING NETWORK PATCH PANEL LOCATED IN I.T. ROOM. FIELD LOCATE I.T. ROOM.
- RELOCATE RANGE OUTLET AND REFEED TO EXISTING CIRCUIT BREAKER IN LP1 (50A, 2P) (3#6 & 1#10G - 3/4" CONDUIT).
- NEW CIRCUITS INDICATED #1-9 LP1 ARE TO BE FED FROM 7 EXISTING 20A, 1P CIRCUIT BREAKERS MADE AVAILABLE BY DEMOLITION IN HOME ECONOMICS AREA. REMOVE 2P CIRCUIT BREAKER FEEDING REMOVED DRYER AND INSTALL 2 MORE 20A, 1P CIRCUIT BREAKERS FOR NEW CIRCUIT USE.
- IN EXISTING PANEL 'PP1': REMOVE FOUR (4) UNUSED 3P CIRCUIT BREAKERS, INSTALL THE FOLLOWING NEW CIRCUIT BREAKERS AND TYPE MATCH PANEL: (1) 50A, 2P FOR CU-1, (2) 20A, 2P FOR KMAU-1 AND KEF-1, AND (1) 60A, 3P FOR EDH-1.
- PROVIDE 7 DAY TIME SWITCH DPST, 20A, 1P, 120V FOR CONTROL OF IF-1 AND EF-2 (CIRCUIT #3-LP1). FANS TO RUN WHEN SCHOOL IS "IN SESSION".
- THERMOSTATS AND LV CONTROL WIRING FOR EV-1-5, CU-1, AND EDH-1 PROVIDED BY MECHANICAL CONTRACTOR.
- PROVIDE 60A, 2P CONTACTOR TO SHUT DOWN RANGE OUTLET ON SIGNAL FROM ANSUL SYSTEM PANEL. CONTACTOR TO BE 240V RATED WITH CONTROL COIL TO MATCH AVAILABLE ANSUL PANEL VOLTAGE IN NEMA 1 ENCLOSURE.
- WHERE NEW OUTLETS AND DEVICES ARE INDICATED ON 'EXISTING' CMU WALLS, INSTALL WIRING AND APPROPRIATE BOXES IN A SURFACE RACEWAY SYSTEM, WIREMOLD OR EQUAL, FINISH AS SELECTED BY ARCHITECT.
- INSTALL SURFACE RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE. INSTALL RACEWAYS TO MINIMIZE EXPOSED LENGTHS.
- WIRING IN NEW 'STUD' WALLS AND ABOVE CEILING TO BE RUN CONCEALED.
- PROVIDE "CALL-FOR AID" SYSTEM EQUAL TO LEE DAN COMMUNICATIONS KIT, INCLUDING EDWARDS #6538-G5 HORN STROBE, #592 TRANSFORMER, AND #6537 PULL CORD STATION.