ROOF & FURNACE REPLACEMENT
COS COB COMMUNITY CENTER

54 BIBLE STREET
GREENWICH, CONNECTICUT

Prepared For

TOWN OF GREENWICH

Building Construction and Maintenance
Department of Public Works
Town Hall
101 Field Point Road
Greenwich, Connecticut 06830

Pustola & Associates
ENGINEERS / CONSTRUCTORS
185 Meadow Street
Naugatuck, Connecticut 06770
Ph: (203) 729-6675 Fax (203) 720-2816

AREA MAP

FOR BIDDING PURPOSES ONLY - NOT FOR CONSTRUCTION

DRAWING LIST

February 20, 2013

ISSUED ○
REVISION ●
UNCHANGED ⊘

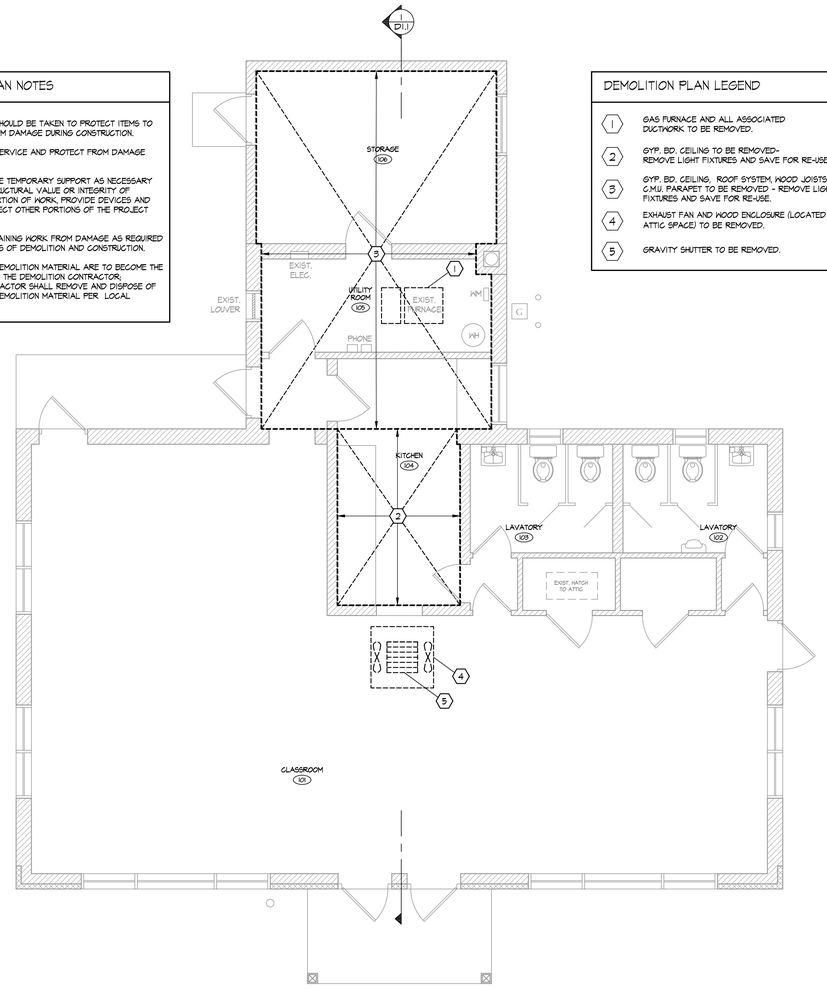
		DATE OF ISSUE
D1.1	DEMOLITION PLAN, ELEVATIONS & CROSS SECTION	2/20/13
A1.1	FLOOR PLAN, EXTERIOR ELEVATIONS	○
A2.1	REFLECTED CEILING PLAN, ROOF PLAN	○
A3.1	BUILDING SECTIONS, NOTES	○
		○
M1.1	HEATING & VENTILATION REHABILITATION	○

DEMOLITION PLAN NOTES

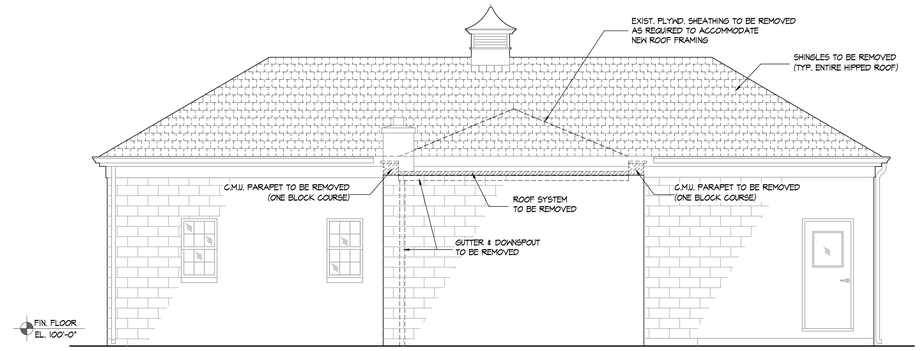
1. SUFFICIENT CARE SHOULD BE TAKEN TO PROTECT ITEMS TO BE SALVAGED FROM DAMAGE DURING CONSTRUCTION.
2. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE AS REQUIRED.
3. PROVIDE ACCURATE TEMPORARY SUPPORT AS NECESSARY TO ENSURE THE STRUCTURAL VALUE OR INTEGRITY OF THE AFFECTED PORTION OF WORK. PROVIDE DEVICES AND METHODS TO PROTECT OTHER PORTIONS OF THE PROJECT FROM DAMAGE.
4. PROTECT ALL REMAINING WORK FROM DAMAGE AS REQUIRED DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
5. ALL DEBRIS AND DEMOLITION MATERIAL ARE TO BECOME THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR. DEMOLITION CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS AND DEMOLITION MATERIAL PER LOCAL AND STATE LAWS.

DEMOLITION PLAN LEGEND

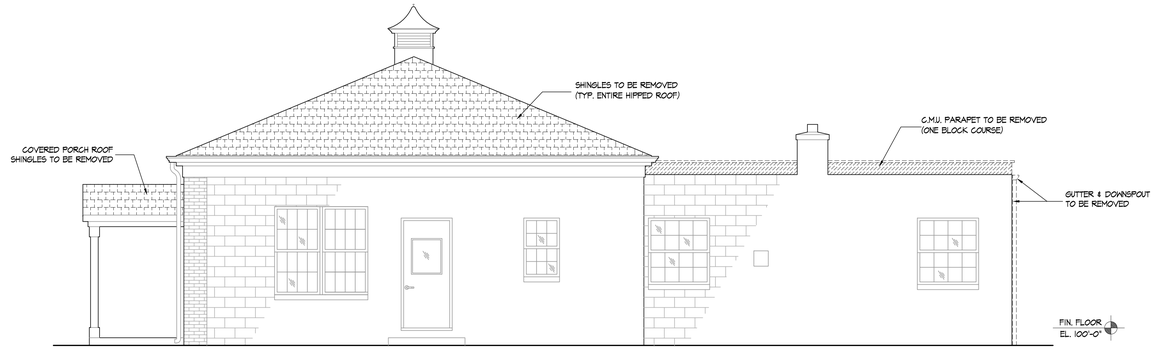
1. GAS FURNACE AND ALL ASSOCIATED DUCTWORK TO BE REMOVED.
2. GYP. BD. CEILING TO BE REMOVED- REMOVE LIGHT FIXTURES AND SAVE FOR RE-USE
3. GYP. BD. CEILING, ROOF SYSTEM, WOOD JOISTS, C.M.U. PARAPET TO BE REMOVED - REMOVE LIGHT FIXTURES AND SAVE FOR RE-USE.
4. EXHAUST FAN AND WOOD ENCLOSURE (LOCATED IN ATTIC SPACE) TO BE REMOVED.
5. GRAVITY SHUTTER TO BE REMOVED.



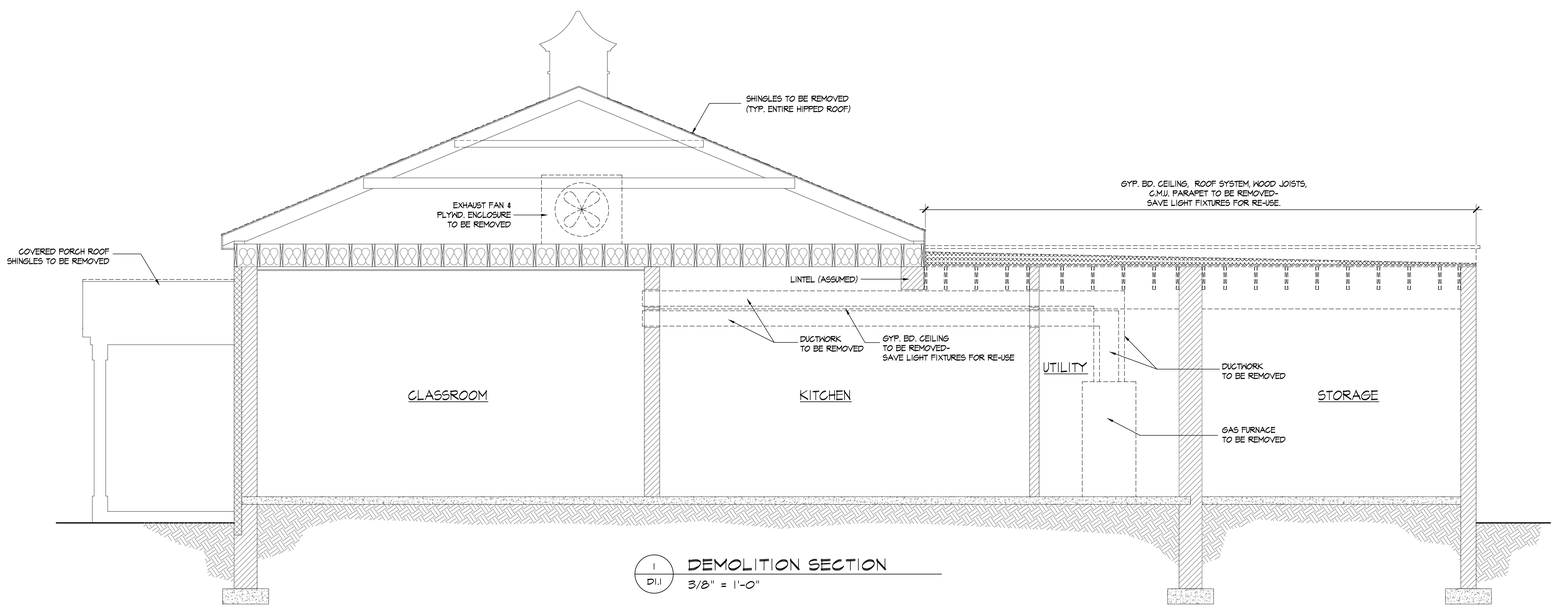
1 / D1.1 DEMOLITION PLAN
1/4" = 1'-0"



1 / D1.1 WEST (REAR) ELEVATION-DEMOLITION
1/4" = 1'-0"



2 / D1.1 NORTH (RIGHT) ELEVATION-DEMOLITION*
1/4" = 1'-0"
*SOUTH (LEFT) ELEVATION SIMILAR



1 / D1.1 DEMOLITION SECTION
3/8" = 1'-0"

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REVISIONS

REV	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	2/20/13

CONSULTANTS

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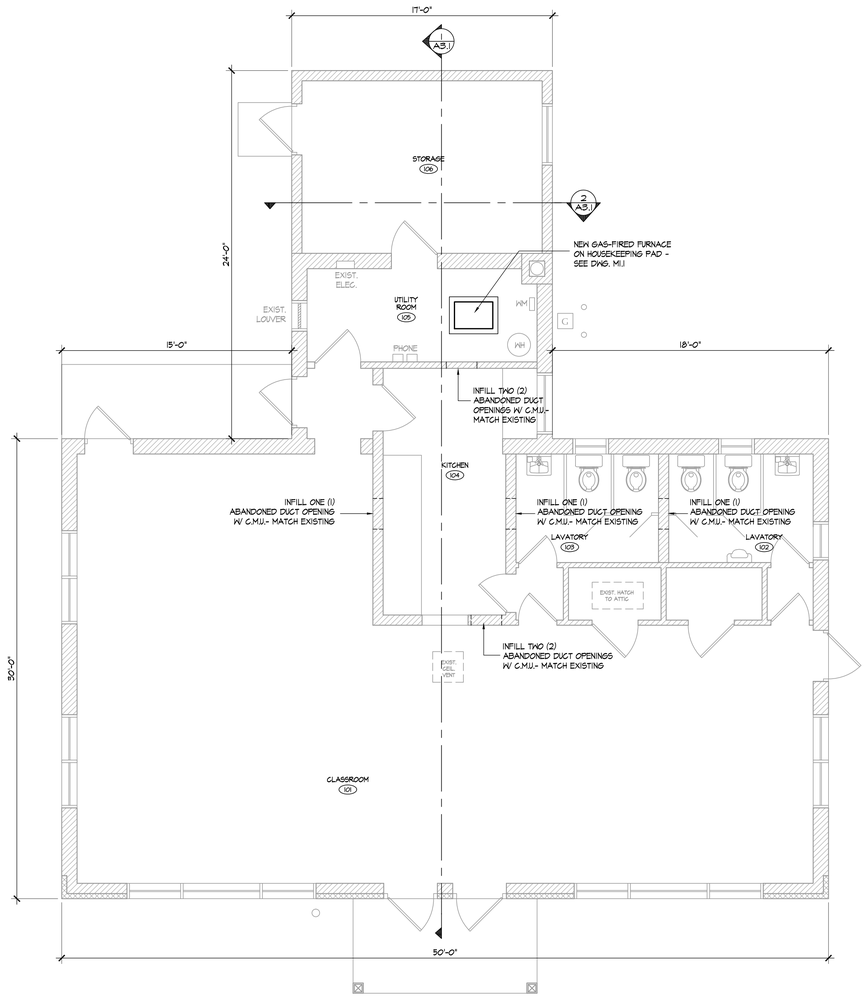
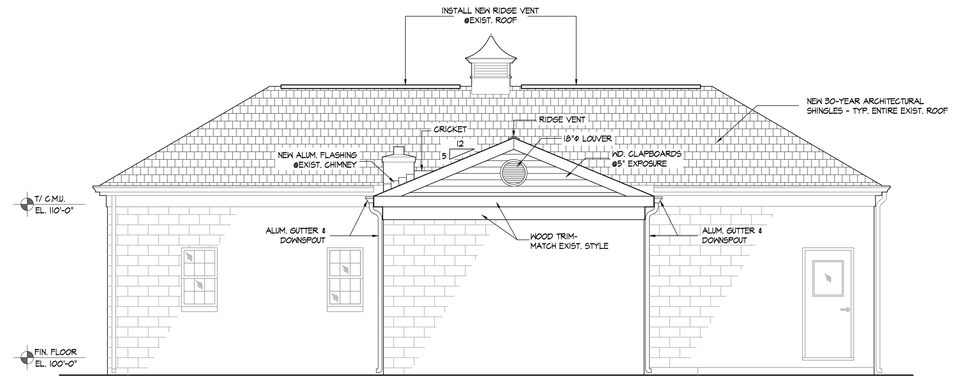
DEMOLITION PLAN, ELEVATIONS & CROSS SECTION

DATE: 2/20/13
SCALE: 1/4" = 1'-0"
PROJECT NO.: 10010.03
CHECKED BY:

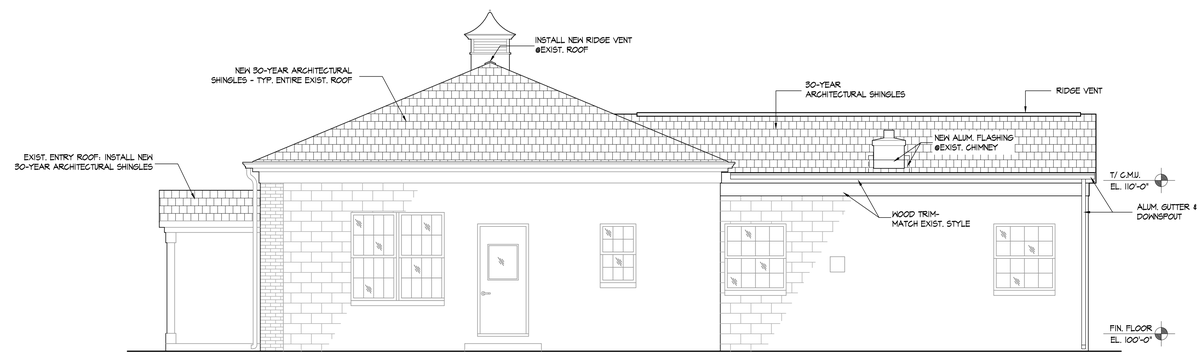
D1.1



1 / A1.1 FLOOR PLAN
1/4" = 1'-0"



1 / A1.1 WEST (REAR) ELEVATION
1/4" = 1'-0"



2 / A1.1 NORTH (RIGHT) ELEVATION*
1/4" = 1'-0"
*SOUTH (LEFT) ELEVATION SIMILAR

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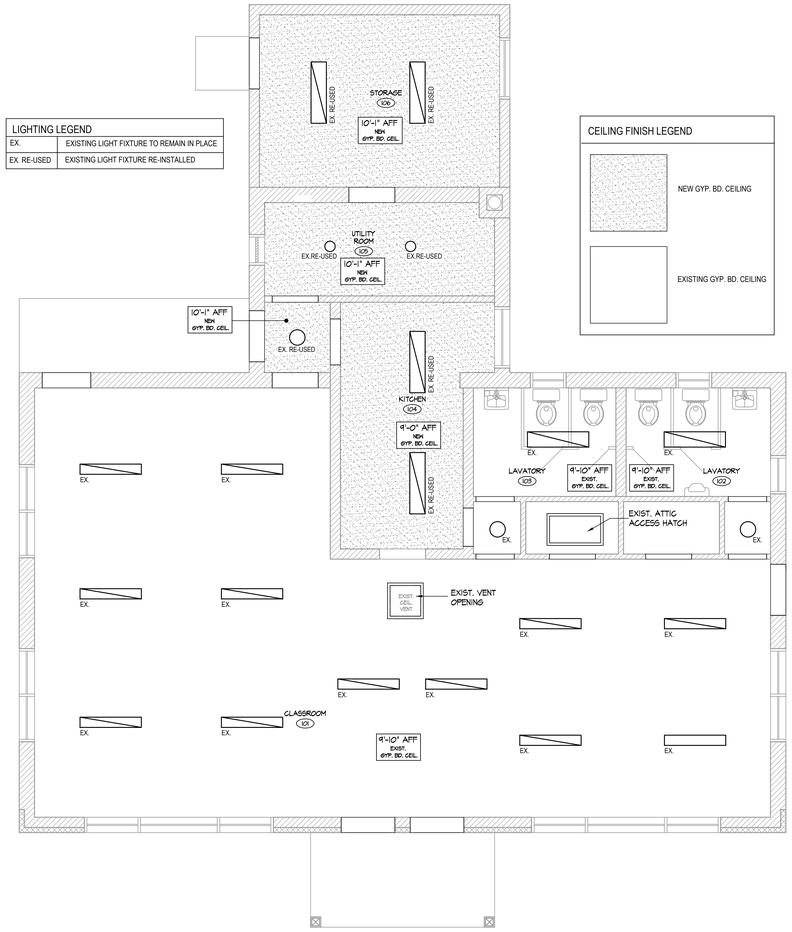
FLOOR PLAN, EXTERIOR ELEVATIONS

DATE:	2/20/13
SCALE:	1/4" = 1'-0"
PROJECT NO.:	10010.03
CHECKED BY:	

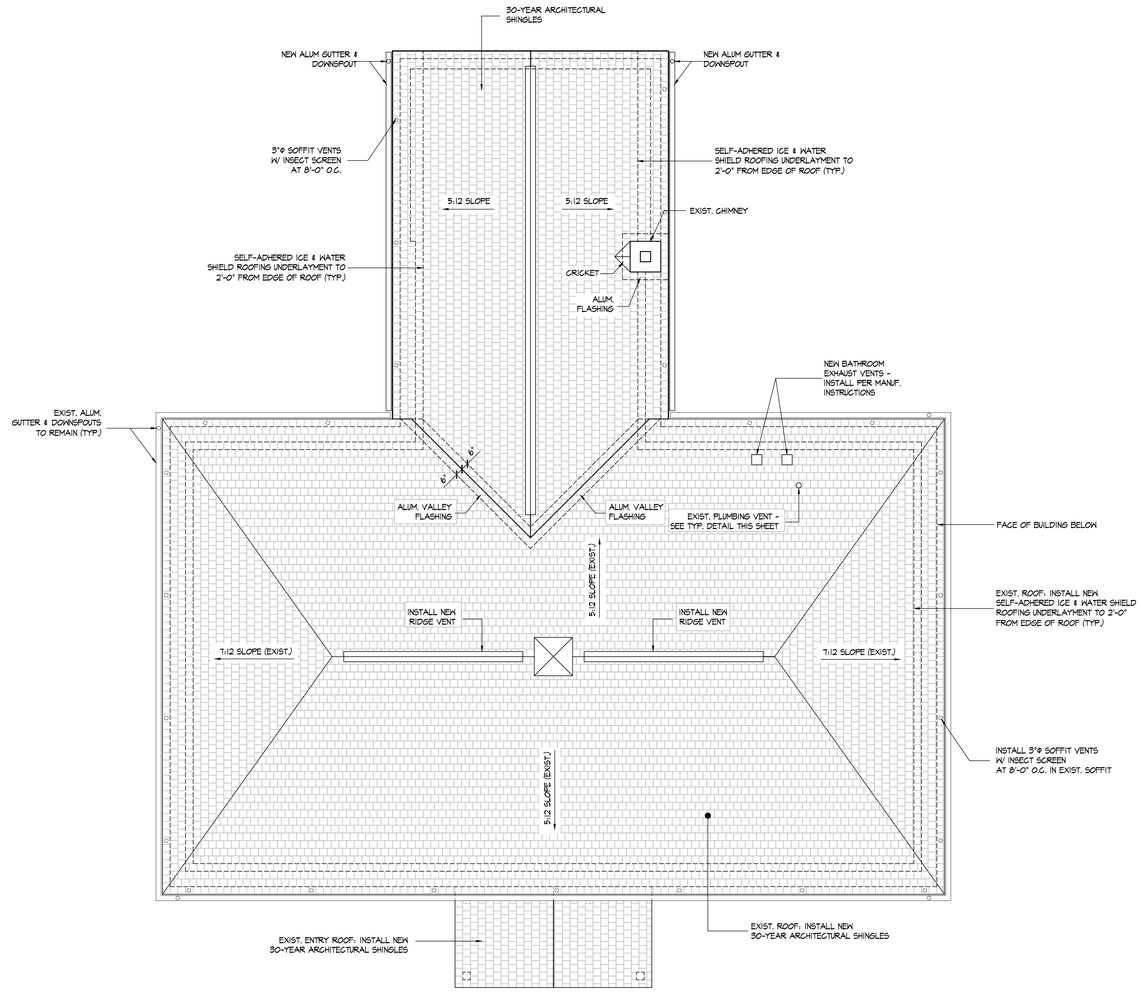
A1.1

LIGHTING LEGEND	
EX.	EXISTING LIGHT FIXTURE TO REMAIN IN PLACE
EX. RE-USED	EXISTING LIGHT FIXTURE RE-INSTALLED

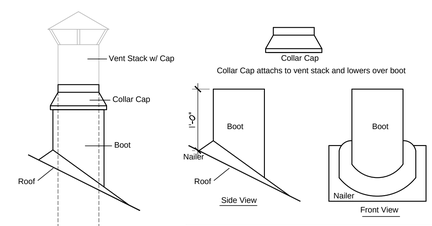
CEILING FINISH LEGEND
NEW GYP. BD. CEILING
EXISTING GYP. BD. CEILING



1 A2.1 REFLECTED CELING PLAN
1/4" = 1'-0"



2 A2.1 ROOF PLAN
1/4" = 1'-0"



NOTE:
Diameter of Boot to be 1" larger than the reqd. vent stack Dia.
Cap and Boot shall be made out of 20 gauge galv. sheet metal;
All vent stacks to be black, no exposed or galvanized metals permitted.

TYP. VENT STACK DETAIL
NO SCALE

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REFLECTED CEILING PLAN, ROOF PLAN

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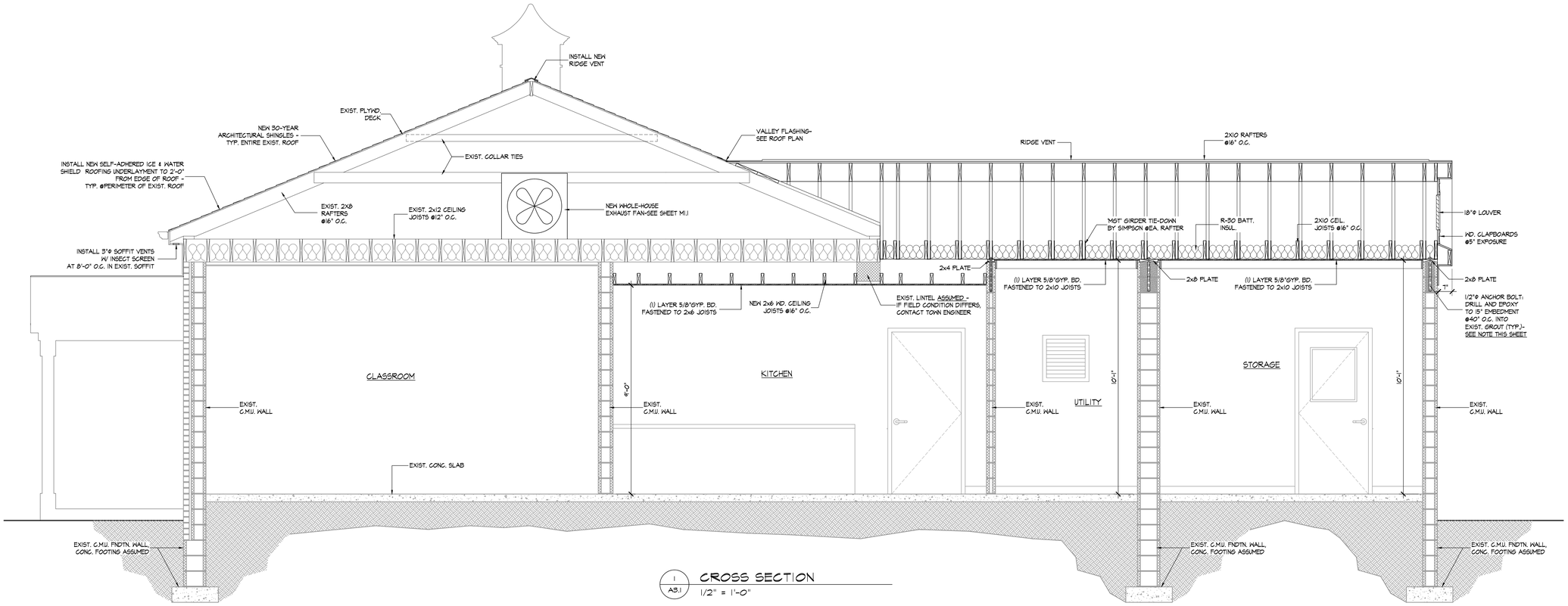
PROJECT NO.:	10010.03
CHECKED BY:	

A2.1



1 / A3.1 CROSS SECTION
1/2" = 1'-0"

GENERAL WOOD NOTES:

1 STUD BEARING WALLS, SHEARWALLS, AND ROOF AND FLOOR DECKS SHALL BE FRAMED WITH THE MEMBER SIZES AND/OR TYPES AT THE SPACINGS SHOWN ON PLAN. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PLUMBING PIPING, HVAC DUCTING AND RECESSED LIGHTING FIXTURES, ETC PRIOR TO LAYOUT TO MINIMIZE INTERFERENCE THAT MAY REQUIRE THE ALTERING OR STRENGTHENING OF THE INSTALLED FRAMING.

2 WALLS SHALL BE INSTALLED STRAIGHT AND PLUMB. FLOORS SHALL BE INSTALLED LEVEL AT THE PROPER ELEVATION. ROOFS SHALL BE INSTALLED AT THE PITCHES INDICATED ON THE ARCHITECTURAL DRAWINGS.

3 JOISTS AND RAFTERS SHALL BE INSTALLED DIRECTLY OVER BEARING STUDS UNLESS OTHERWISE DETAILED.

4 JOISTS SHALL BE SUPPORTED LATERALLY AT EACH SUPPORT BY FULL DEPTH SOLID BLOCKING TWO INCHES IN THICKNESS, EXCEPT WHERE JOISTS ARE SUPPORTED BY A FLUSH HEADER OR NAILED TO A RIM JOIST.

5 PROVIDE A MINIMUM OF TWO STUDS AT EACH END OF ALL FLUSH FRAMED HEADERS OR BEAM, UNLESS MORE ARE INDICATED ON PLAN. PROVIDE ONE JACK STUD AND ONE FULL KING STUD AT EACH END OF ALL DROPPED HEADERS OR BEAMS, UNLESS MORE JACK AND KING STUDS ARE INDICATED ON PLAN.

6 FLUSH FRAMED CONNECTIONS SHALL BE MADE WITH PREFABRICATED GALVANIZED STEEL HANGERS MADE BY SIMPSON STRONG-TIE, CO., INC. OR KANT-SAG CONNECTORS BY UNITED STEEL PRODUCTS CO. OF WIDTH AND DEPTH APPROPRIATE FOR THE SUPPORTED MEMBER. INSTALL WITH THE TYPE AND QUANTITY OF FASTENERS RECOMMENDED BY THE MANUFACTURER.

7 STRUCTURAL WOOD FRAMING USED IN EXTERIOR APPLICATIONS OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE SOUTHERN YELLOW PINE NO. 2 OR BETTER, CCA PRESERVATIVE PRESSURE TREATED WOOD.

DIMENSIONED WOOD FRAMING NOTES:

1 THE STRUCTURAL WOOD STRESS GRADE STAMPED LUMBER SHALL BE GRADED AS FOLLOWS:

JOISTS AND RAFTERS:

DOUGLAS FIR-LARCH OR DOUGLAS FIR-LARCH (NORTH), NO. 2.
FB (BASE) = 825 PSI,
E = 1,600,000 PSI

STUDS:

DOUGLAS FIR-LARCH OR DOUGLAS FIR-LARCH (NORTH), STUD GRADE.
FB (BASE) = 650 PSI,
E = 1,400,000 PSI

2 THE DESIGN OF THE DIMENSIONAL LUMBER MEMBERS AND THEIR CONNECTIONS IS BASED ON THE LUMBER HAVING A MOISTURE CONTENT AT THE TIME OF INSTALLATION OF 19% OR LESS.

3 JOISTS OR RAFTERS ARE TO BE INSTALLED WITH "CROWN" UP (I.E. POSITIVE CAMBER) AND WITHIN 1/2 INCH OF STRAIGHT, END-TO-END ALIGNMENT.

4 SEVERELY DISTORTED (TWISTED, BOWED, CUPPED, CHECKED, ETC.) LUMBER SHALL NOT BE USED.

5 NOTCHES IN THE TOP OR BOTTOM OF DIMENSIONED LUMBER JOISTS OR RAFTERS SHALL NOT EXCEED ONE-SIXTH THE MEMBER DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. END NOTCHES SHALL NOT EXCEED ONE-FOURTH THE MEMBER DEPTH. BORED HOLES SHALL NOT BE WITHIN TWO INCHES OF THE TOP AND BOTTOM OF THE MEMBER AND THEIR DIAMETER SHALL NOT EXCEED ONE-THIRD THE MEMBER DEPTH.

SHEATHING PANELS

1 SHEATHING PANELS, PLYWOOD OR ORIENTED STRAND BOARD ("OSB"), SHALL CONFORM TO U.S. PRODUCT STANDARD PS-1, AND BEAR THE APA GRADE-TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION. ONLY PLYWOOD SHALL BE USED ON FLOORS.

2 SHEATHING PANELS FOR FLOORS, ROOF, AND WALLS SHALL BE APA RATED SHEATHING, EXPOSURE 1, WITH A MINIMUM SPAN INDEX RATING OF 32/16. SEE ARCHITECTURAL PLANS FOR THICKNESS.

3 SHEATHING PANELS ON FLAT SURFACES SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR ACROSS TO SUPPORTS AND CONTINUOUS OVER TWO OR MORE SPANS.

WOOD FASTENERS NOTES:

1 WOOD COMPONENTS ARE TO BE FASTENED TOGETHER AS INDICATED IN THE FOLLOWING SCHEDULE UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE PLANS.

NAILING SCHEDULE

CONNECTION	NAIL SIZE/TYPE	QUANTITY OR SPACING
STUD TO SOLE PLATE	8D COMMON 16D COMMON	4 TOE-NAIL OR 2 END DIRECT
STUD TO CAP PLATE	8D COMMON 16D COMMON	4 TOE-NAIL OR 2 END DIRECT
DOUBLE STUDS	10D COMMON	9" O.C. DIRECT
CORNER STUDS	16D COMMON	9" O.C. DIRECT
SOLE PLATE TO JOIST OR BLOCKING	16D COMMON	8" O.C. DIRECT
DOUBLE CAP PLATE	10D COMMON	16" O.C. DIRECT
CAP PLATE LAPS	10D COMMON	2 DIRECT
RIM/BOX JOIST TO A JOIST END	16D COMMON	3 END DIRECT
ROOF RAFTER TO PLATE	10D COMMON	4 TOE-NAIL
ROOF RAFTER TO RIDGE	16D COMMON 10D COMMON	2 END DIRECT OR 4 TOE-NAIL
JACK RAFTER TO HIP	10D COMMON 16D COMMON	3 TOE-NAIL OR 2 DIRECT
FLOOR JOISTS TO SILL OR GIRDER	10D COMMON	4 TOE-NAIL
EDGE FLOOR JOIST TO SILL	10D COMMON	TOE-NAIL 8" O.C.
CEILING JOIST TO PLATE	16D COMMON	4 TOE-NAIL
CEILING JOISTS LAPS (OVER PARTITION)	10D COMMON	4 DIRECT
CEILING JOISTS TO RAFTER	10D COMMON	5 DIRECT
COLLAR BEAM TO RAFTER	10D COMMON	5 DIRECT
BRIDGING TO JOISTS	10D COMMON 8D COMMON	2 DIRECT 3 TOE-NAIL
PLYWOOD ROOF AND WALL SHEATHING	8D COMMON	6" O.C. EDGES 10" O.C. OTHER
PLYWOOD SUBFLOOR (3/4" OR LESS)	8D COMMON OR 6D ANNULAR	6" O.C. EDGES 10" O.C. OTHER
(GREATER THAN 3/4")	10D COMMON	6" O.C. EDGES AND 10" O.C. OTHER

2 NAILS AND SPIKES SHALL CONFORM TO THE NOMINAL SIZES SPECIFIED IN FEDERAL SPECIFICATIONS FF-N-105B. PNEUMATIC OR ELECTRIC POWERED HAMMERS TYPICALLY UTILIZE LIGHTER GAGE FASTENERS AND NORMALLY REQUIRE ADDITIONAL FASTENERS TO BE INSTALLED. FASTENER SPECIFICATIONS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION IF POWERED HAMMERS ARE TO BE USED.

3 LAG AND WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1 – 19.81.

4 BORED LEAD HOLES FOR FASTENERS SHALL BE AS FOLLOWS.

A NAIL AND SPIKE LEAD HOLES ARE NOT REQUIRED UNLESS TO PREVENT SPLITTING OF WOOD. IF REQUIRED, LEAD HOLE DIAMETER SHALL NOT EXCEED 75% OF NAIL/SPIKE DIAMETER.

B WOOD SCREWS – LEAD HOLE DIAMETER EQUALS 7/8 OF UNTHREADED SHANK DIAMETER IN CONNECTED WOOD PART AND 7/8 OF DIAMETER AT ROOT OF THREAD IN WOOD RECEIVING THREAD.

C LAG SCREWS – LEAD HOLE DIAMETER EQUALS SHANK DIAMETER FOR EXTENT OF UNTHREADED SHANK, AND 60% OF SHANK DIAMETER FOR THREADED PORTION OF SHANK.

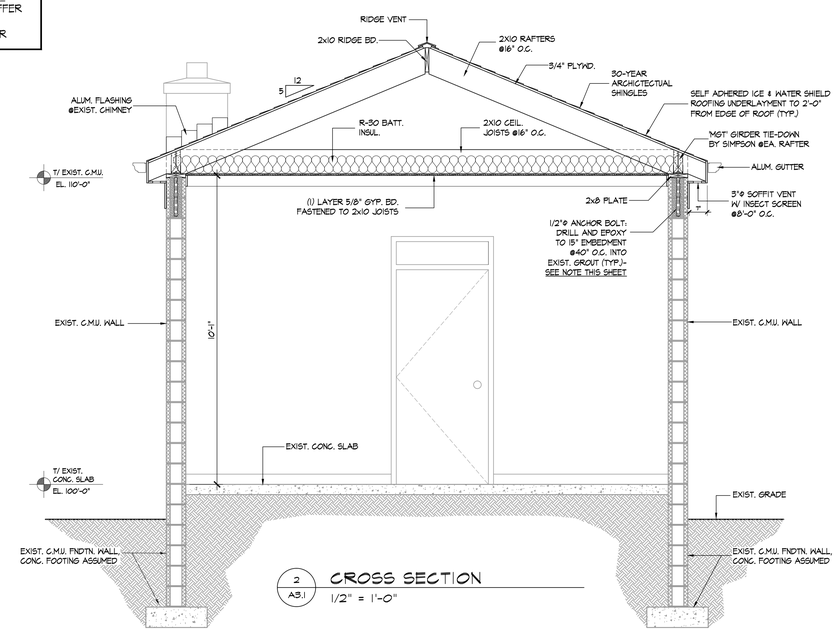
D THRU BOLTS – LEAD HOLE DIAMETER 1/32" TO 1/16" LARGER THAN NOMINAL BOLT DIAMETER.

5 INSERT THREADED SCREW TYPE FASTENERS BY TURNING WITH SCREWDRIVER OR WRENCH. DO NOT DRIVE BY HAMMERING. FACILITATE INSTALLATION BY PLACING SOAP OR OTHER LUBRICANT ON THREADS.

6 PROVIDE STANDARD ROUND WASHERS UNDER THE HEADS OF ALL THRU BOLTS AND LAG SCREWS AND UNDER ALL NUTS UNLESS OTHERWISE INDICATED ON THE PLANS. TIGHTEN FASTENERS WITHOUT CRUSHING WOOD FIBERS UNDER WASHERS.

NOTE:

PRESENCE OF EXISTING GROUT IN TOP COURSES OF EXISTING C.M.U. WALLS IS ASSUMED - IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN, CONTACT TOWN ENGINEER



2 / A3.1 CROSS SECTION
1/2" = 1'-0"

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BUILDING SECTIONS, NOTES

DATE:	2/20/13
SCALE:	1/2" = 1'-0"
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A3.1

GENERAL NOTES: (HV, HEATING & VENTILATION)

For this project, the "Owner" shall refer to the Town of Greenwich, Connecticut, or to the authorized personnel acting on behalf of the Owner, in this case the Superintendent of Building Construction, and Maintenance, 101 Field Point Road, Greenwich, CT.

1. This drawing shows the partial HV (Heating & Ventilating) system at the location shown.
2. ASBESTOS NOTE: This facility has undergone asbestos abatement, and is believed to be asbestos free. However, should asbestos bearing materials be suspected of being present in the work area, STOP WORK! Notify the Town Engineer immediately. The cost of any asbestos testing or removal work will be by the Owner at the Owner's expense.
3. The HV contractor shall be responsible for a "Turnkey" (complete, installed, tested, and operating) installation. That is, he shall furnish and install all labor, materials, equipment, etc. as is required to complete the work, including any and all required finish details to provide a clean, neat, safe, tested and finished system.
4. The HV contractor may slightly alter the equipment locations to suit the field conditions, with the permission of the Owner.
5. Voltages shown are preliminary. Coordinate final voltages with the Owner's Engineer.
6. All work shall be performed in accordance with the latest revision of the following Codes & Standards:
   - NFPA-54 The National Fuel Gas Code
   - NFPA-70 The National Electric Code
   - The International Mechanical Code
   - The International Building Code
   - State of CT. Building/Energy Code
   - NFPA-90A Installation of HVAC Systems
   - Local Codes & Regulations
   - Manufacturer's Recommendations
   - Good Quality Trade Practices
   - SMACNA Standards for low pressure duct
7. The contractor shall read, review and follow manufacturer's instruction as called out in the Carrier manual "59TN6A, INSTALLATION, START-UP, OPERATING, SERVICE AND MAINTENANCE INSTRUCTIONS".
8. All ductwork shall be galvanized sheet metal, fabricated in full conformance with applicable codes and SMACNA standards for low pressure duct. Insulated, listed, flexible duct may be used for final connections from supply mains to diffusers, not to exceed 10' in length.
9. Provide a lockable damper, with position indicator at each tap.
10. All diffusers shall be provided with internal throat dampers operable from the room.
11. All supply duct, and all return duct in the Attic shall be insulated with pre-formed fiberglass with vapor barrier, thickness and R-factor to be in conformance with State of CT Energy Code.
12. Equivalent duct sized may be used to suit field conditions.

SCOPE OF WORK: (HV)

1. The HV contractor shall remove and legally dispose of all materials and equipment made obsolete by this project. However, should the owner decide to retain any scrap, he may do so at his discretion.
2. The HV contractor shall obtain, furnish and install, test and start-up, any and all components shown herein, including but not limited to: gas furnace, humidifier, t'stats, heaters, fans, carbon monoxide detectors, gas piping, water piping, ductwork, duct insulation, housekeeping pad, hangers, etc., as is required to complete the HV installation. Wiring and electrical work shall be by the HV contractor.
3. The contractor shall include in his bid price 2 each, 2 hour service calls to review with the Owner's personnel proper maintenance, filter replacement and operation of the t'stat/h'stat, after completion of the work.
4. At the completion of the work, the HV contractor shall provide air balancing service, and provide a report to the owner showing measured CFM's. He shall provide three (3) each factory manuals for each independent piece of equipment. He shall provide six (6) each spare media filters & ten (10) each humidifier panel replacements.
5. He shall provide, as part of his bid price, a qualified technician to demonstrate to the owner operation of the Thermidistat, and proper service and maintenance procedure as required.

TG = TRANSFER GRILLE
S = SUPPLY
R = RETURN
G = GAS
O.A. = OUTSIDE AIR
S.A = SUPPLY AIR
R.A. = RETURN AIR
EX. A. = EXHAUST AIR
F.D. = FIRE DAMPER
DR. = DRAIN
PRV= PRESSURE REDCG. VALVE
RAG= RETURN AIR GRILLE
SAD= SUP. AIR DIFFSR.
EF = EXHAUST FAN
EH = ELECTRIC HEATER
HMD = HUMIDIFIER
EUH = ELEC. UNIT HEAT
MD = MOTORIZED DAMPER
GD = GRAVITY DAMPER
RTU = ROOF TOP UNIT
AHU= AIR HANDLING UNIT
CU = CONDENSING UNIT
CFM = CUBIC FEET/MIN.

H.W. = HOT WATER
C.W. = CITY WATER

DUCT
DUCT WITH DAMPER
DUCT REDUCER
DUCT
DUCT WITH DAMPER
FLEX DUCT
GAS METER
PRV
VALVE
CHECK VALVE
PRESS. RELIEF VLV.
VALVE, NORM. CLOSED

MD = MOTORIZED DAMPER
OAG = OUTSIDE AIR GRILL
THERMOMETER
STEAM PIPE
CONDENSATE
GAS PIPE
HPS = HIGH PRESS. STEAM
LPS = LOW PRESS. STEAM
HOT WTR. SUPPLY
HOT WTR. RET.
MOTORIZED DMPR.
FAN

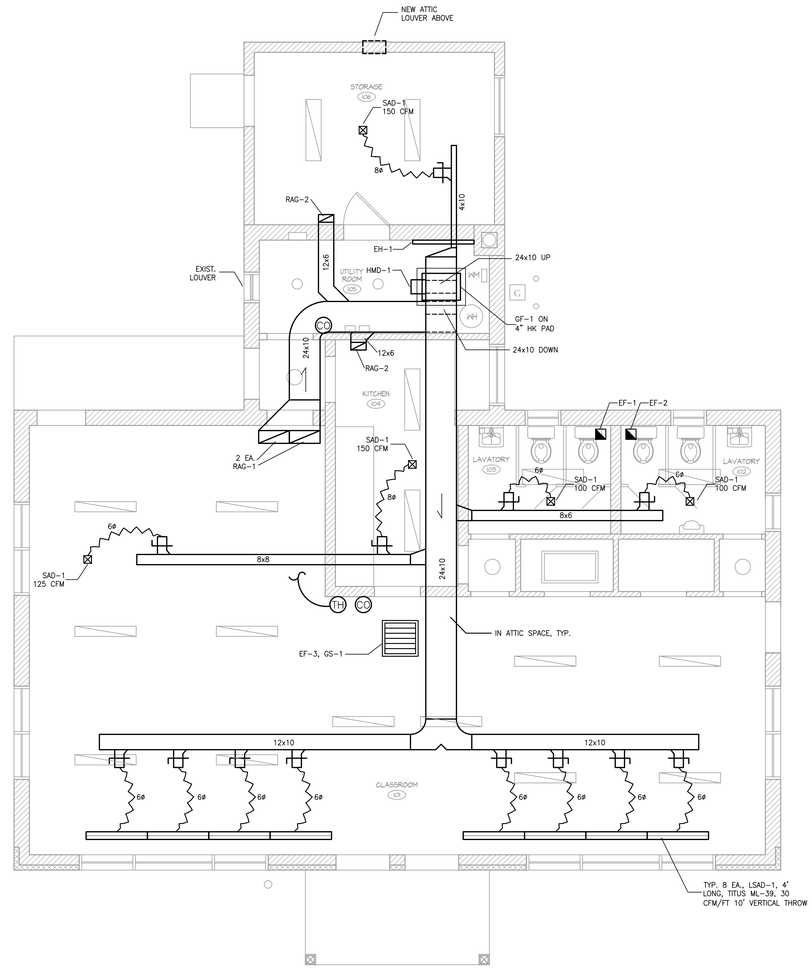
CC CIRCUIT SETTER, B&G
PUMP CONNECTOR, FLEX
BFP BACK FLOW PREVENTER
CO CARBON MONOXIDE DETECTOR/ALARM
T THERMOSTAT
TH THERMIDISTAT
PRESSURE GAUGE
THERMOMETER
SUPPLY AIR
EXHAUST AIR
RETURN AIR
CIRCULATOR
AIR VENT

HVAC SYMBOLS

LIST OF HV EQUIPMENT, BY THE HV CONTRACTOR

ITEM	LOCATION	DESCRIPTION
GF-1	UTILITY ROOM	GAS FURNACE, CONDENSING, HIGH EFFICIENCY, DIRECT VENT, GAS FIRED, CARRIER MODEL 56TN6A100V21-22, 35"H×30"D×21"W. 96.1% EFFICIENCY AFUE, 98K/63K BTUH OUTPUT @HIGH/LOW, 1,575/1,385 CFM @.20" ESP, 165 LBS., WITH 20" MEDIA CABINET. FURNISH WITH DISPOSABLE FACTORY AIR FILTER AND 6 SPARES TO REMAIN WITH THE OWNER. VENTING MAY BE 1 PIPE, 2 PIPE OR CONCENTRIC TO BEST SUIT FIELD CONDITIONS, IN STRICT COMPLIANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND APPLICABLE CODES. 115 VAC, 60 HZ 1 PH, 13.7 MAX UNIT AMPS, UNIT AMPACITY 18. MOUNT ON 4" HIGH HK PAD.
HMD-1	UTILITY ROOM	HUMIDIFIER, CARRIER MODEL SFP, 3.2 GAL/HR, 11-1/2"x11", 110 VAC, 1 PH, 1.9 AMPS, 11 LBS., FURNISH WITH ONE 10-PACK OF WATER PANEL REPLACEMENTS TO REMAIN WITH THE OWNER.
TH THERMIDISTAT	CLASSROOM	THERMIDISTAT, CARRIER MODEL TP-PRH-01A COMBINED DIGITAL THERMOSTAT/HUMIDISTAT, NON-PROGRAMMABLE.
EH-1	UTILITY ROOM	HEATER, ELECTRIC, HEAVY DUTY SLOPE TOP, 10"H, 48"L×3"D, 1,000W, 120 VAC, 1 PH, 8.3 AMP, DAYTON 3ENE4, WITH INTERNAL T'STAT, MOUNT 18" OFF FLOOR.
CO	CLASSROOM, UTILITY RM.	CARBON MONOXIDE/SMOKE DETECTOR ALARM, KIDDE MODEL KN-COSM-1B, 110 VAC WITH 9V BATTERY BACK-UP. UL-LISTED, 85 DB, GRAINGER #1XTH3, 2 REQUIRED.
EF-1,2	LAV.'S	EXHAUST FAN, 80 CFM @.1" SP, 120 VAC, .6 AMPS, BROAN MODEL HD-80, GRAINGER #5EB32.
EF-3* GS-1	CLASSROOM/ATTIC	EXHAUST FAN & GRAVITY SHUTTER, WHOLE HOUSE, HEAVY DUTY, BELT DRIVE, 2 SPEED, 24", 5,600/3,700 CFM, HI/LOW SPEED, 1/3 HP, 6.7/4.6 AMPS, 110 VAC, 1 PH, GRAINGER FAN #2EAX5, WITH PREMIUM SHUTTER #4CG24. XHAUST FAN, 80 CFM @.1" SP, 120 VAC, .6 AMPS, BROAN MODEL HD-80, GRAINGER #5EB32. LOCATE FAN IN ATTIC SPACE, LOCATE SHUTTER IN EXISTING CEILING OPENING.
LSAD-1	CLASSROOM	DIFFUSER, LINEAR SLOT, TITUS ML-39, 4' LONG, WITH 2 EA. 1" SLOTS, 30 CFM/FT, 10' VERTICAL THROW, NC<20.
RAG-1	CLASSROOM	RETURN AIR GRILLE, TITUS STYLE 350FL, ALUMINUM, 24"x10", 750 CFM, NC<20, 2 REQUIRED.
RAG-2	KITCHEN/STORAGE	RETURN AIR GRILLE, TITUS STYLE 350FL, ALUMINUM, 12"x6", 200 CFM, NC<20, 2 REQUIRED.

*NOTE: THIS FAN REQUIRES AN ATTIC LOUVER TO BE INSTALLED WITH THE INSTALLATION OF A NEW GABLE ROOF. DO NOT INSTALL UNTIL THE LOUVER INSATLLATION IS CONFIRMED.



1 / M1.1 FIRST FLOOR H&V PLAN
1/4" = 1'-0"

FOR BIDDING PURPOSES ONLY - NOT FOR CONSTRUCTION

REVISIONS

REV	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	2/20/13

CONSULTANTS

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GREENWICH, CONNECTICUT

HEATING & VENTILATION REHABILITATION

DATE: 2/20/13
SCALE: 1/4" = 1'-0"
PROJECT NO.: 10010.03
CHECKED BY:

M1.1