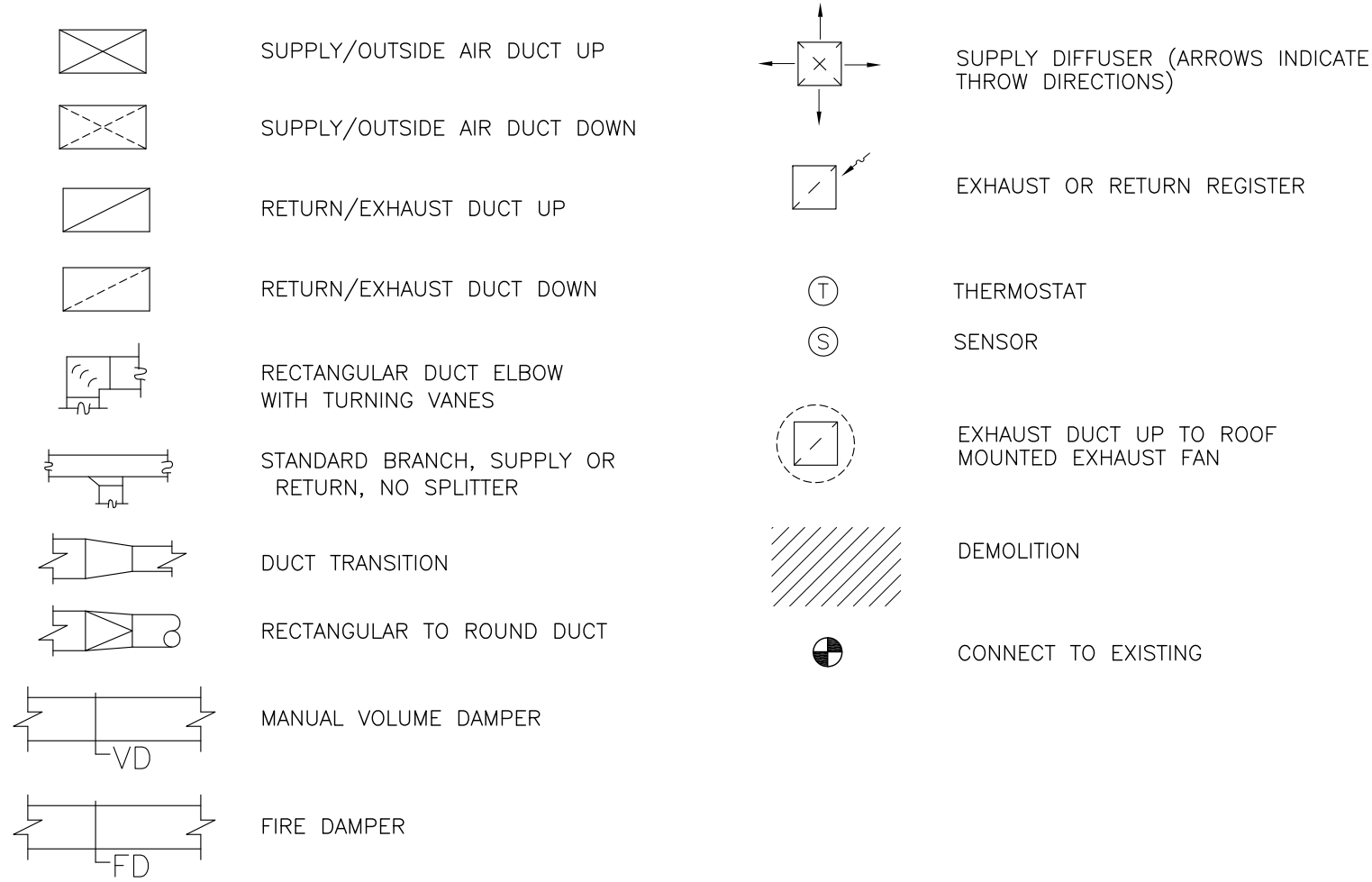


HVAC LEGEND:

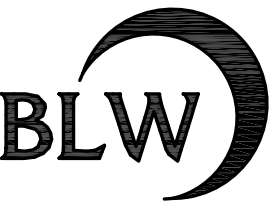


HVAC ABBREVIATIONS:

AC = AIR CONDITIONING	LAT = LATENT OR LEAVING AIR TEMPERATURE
AMP = AMPERE	LBS = POUNDS
APD = AIR PRESSURE DROP	LD = LOUVERED DOOR
ATC = AUTOMATIC TEMPERATURE CONTROL	LF = LINEAR FEET
BTU = BRITISH THERMAL UNIT	LRA = LOCKED ROTOR AMPS
BTUH = BTU PER HOUR	LWT = LEAVING WATER TEMPERATURE
CAP = CAPACITY	MAX = MAXIMUM
CF = CUBIC FEET	MBH = THOUSAND BTUH
CFH = CUBIC FEET PER HOUR	MCA = MAXIMUM CURRENT AMPS
CFM = CUBIC FEET PER MINUTE	MIN = MINIMUM
CONN = CONNECTION	MO = MOTOR-OPERATED
DB = DRY BULB	NIC = NOT IN CONTRACT
DEG = DEGREE	NO = NUMBER
DIA = DIAMETER	NTS = NOT TO SCALE
DIFF = DIFFERENCE OR DELTA	OA = OUTSIDE AIR
DM = DAMPER MOTOR	PH = PHASE (ELECTRICAL)
DN = DOWN	PS = PRESSURE SENSOR
Δ P = DELTA-P (PRESSURE DIFFERENTIAL)	PSI = POUNDS PER SQUARE INCH
Δ T = DELTA-T (TEMPERATURE DIFFERENTIAL)	PSIG = POUNDS PER SQUARE INCH GAGE
DX = DIRECT EXPANSION (REFRIGERANT) COOLING	R = RETURN
EA = EACH	RA = RETURN AIR
EAT = ENTERING AIR TEMPERATURE	RR = RETURN AIR REGISTER
EF = EXHAUST FAN	RLA = RUNNING LOAD AMPS
EL = ELEVATION, ELBOW	RPM = REVOLUTIONS PER MINUTE
ER = EXHAUST REGISTER	RTU = ROOFTOP UNIT
ESP = EXTERNAL STATIC PRESSURE	SA = SUPPLY AIR
EXIST'G = EXISTING	SD = SUPPLY AIR DIFFUSER
F = FAHRENHEIT	SC = SENSIBLE COOLING
FC = FLEXIBLE CONNECTOR	SEN = SENSIBLE
FLA = FULL LOAD AMPS	SF = SQUARE FEET OR SUPPLY FAN
FPM = FEET PER MINUTE	SP = STATIC PRESSURE
FPS = FEET PER SECOND	SR = SUPPLY REGISTER
FT = FEET	TA = TRANSFER AIR
GA = GAGE	TC = TOTAL COOLING
H = HIGH OR HEAT	TG = TRANSFER GRILLE
HC = HEATING COIL	TS = TEMPERATURE SENSOR
HP = HORSEPOWER	TYP = TYPICAL
HV = HEATING AND VENTILATING UNIT	W = WATT
HZ = FREQUENCY (CYCLES PER SECOND)	WB = WET BULB
KW = KILOWATT	WC = WATER COLUMN
	WPD = WATER PRESSURE DROP

HVAC NOTES:

- DUCTWORK SHOWN IS DIAGRAMMATIC ONLY. DETERMINE THE EXACT LOCATION IN THE FIELD.
- REFER TO REFLECTED CEILING DRAWINGS FOR AIR OUTLET LOCATIONS.
- REVIEW ALL ARCHITECTURAL, STRUCTURAL, PLUMBING, ELECTRICAL, AND SITE DRAWINGS BEFORE STARTING ANY WORK TO BECOME FAMILIAR WITH THE DETAILS OF CONSTRUCTION, AND COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS.
- OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES RELATED TO SAME.
- PROVIDE ALL NECESSARY PIPING, EQUIPMENT AND SUPPORTS AS WELL AS ANY ADDITIONAL EQUIPMENT, ETC. NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS BUT NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS.
- PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE.
- INSTALL ALL WORK IN ACCORDANCE WITH STATE AND LOCAL CODES.
- DO NOT SCALE THESE DRAWINGS. TAKE ALL MEASUREMENTS IN THE FIELD IN COORDINATION WITH ALL EQUIPMENT AS APPROVED AND WITH ALL OTHER TRADES.
- FOR EQUIPMENT SCHEDULES, SEE THIS DRAWING.
- ALL DUCTWORK SHALL BE INSTALLED ON ACCORDANCE WITH THE LATEST EDITION OF SMACNA.
- DETAILS SHOWN ARE APPLICABLE TO ALL DRAWINGS, EXCEPT WHERE INDICATED.
- CONTRACTOR SHALL VERIFY DUCT AND EQUIPMENT LOCATIONS FOR INTERFERENCES BEFORE INSTALLATION.
- COORDINATE NEW DIFFUSER LOCATIONS WITH LIGHTING LOCATIONS.



BLW Engineers, Inc.
 311 Great Road, Post Office Box 1551
 Littleton, Massachusetts 01460
 t: 978.486.4301 f: 978.428.0067

HVAC • Electrical • Plumbing • Fire Protection

Project:
Littleton Town Hall

37 Shattuck Road
 Littleton, MA 01460

Client:
 Littleton Parks & Recreation

Littleton, MA 01460
 Tel: (978) 952-2311

Project #: 07037

Scale: None

Issue:	Date:
Construction	12.14.07

Revisions:	Date:

Drawing Title:
 HVAC
 Legend and notes

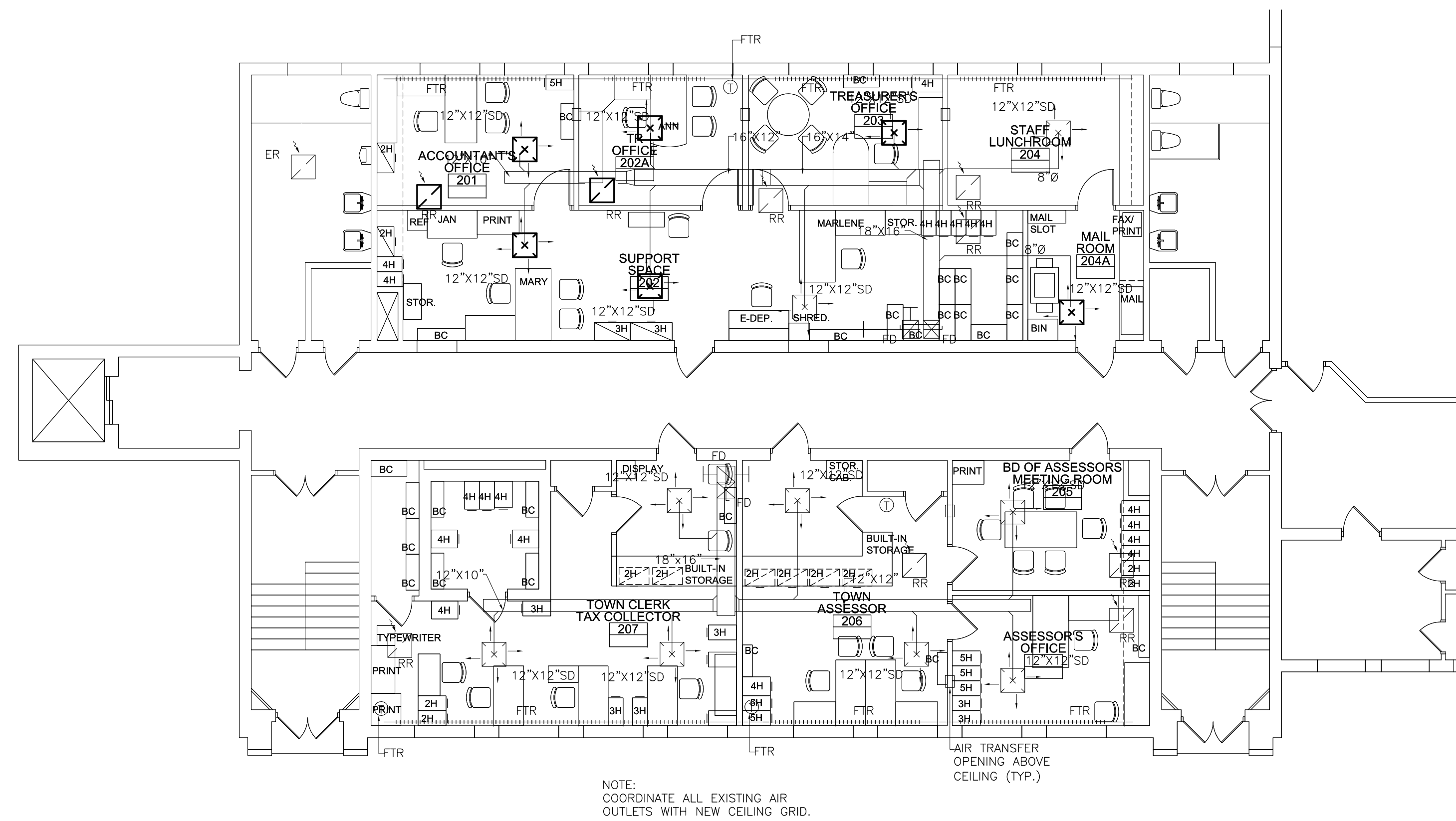
Sheet Number:

H001

200 Ayer Road
 Harvard, MA 01451
 Tel: (978) 456-2800
 Fax: (978) 456-2801
 www.maugel.com

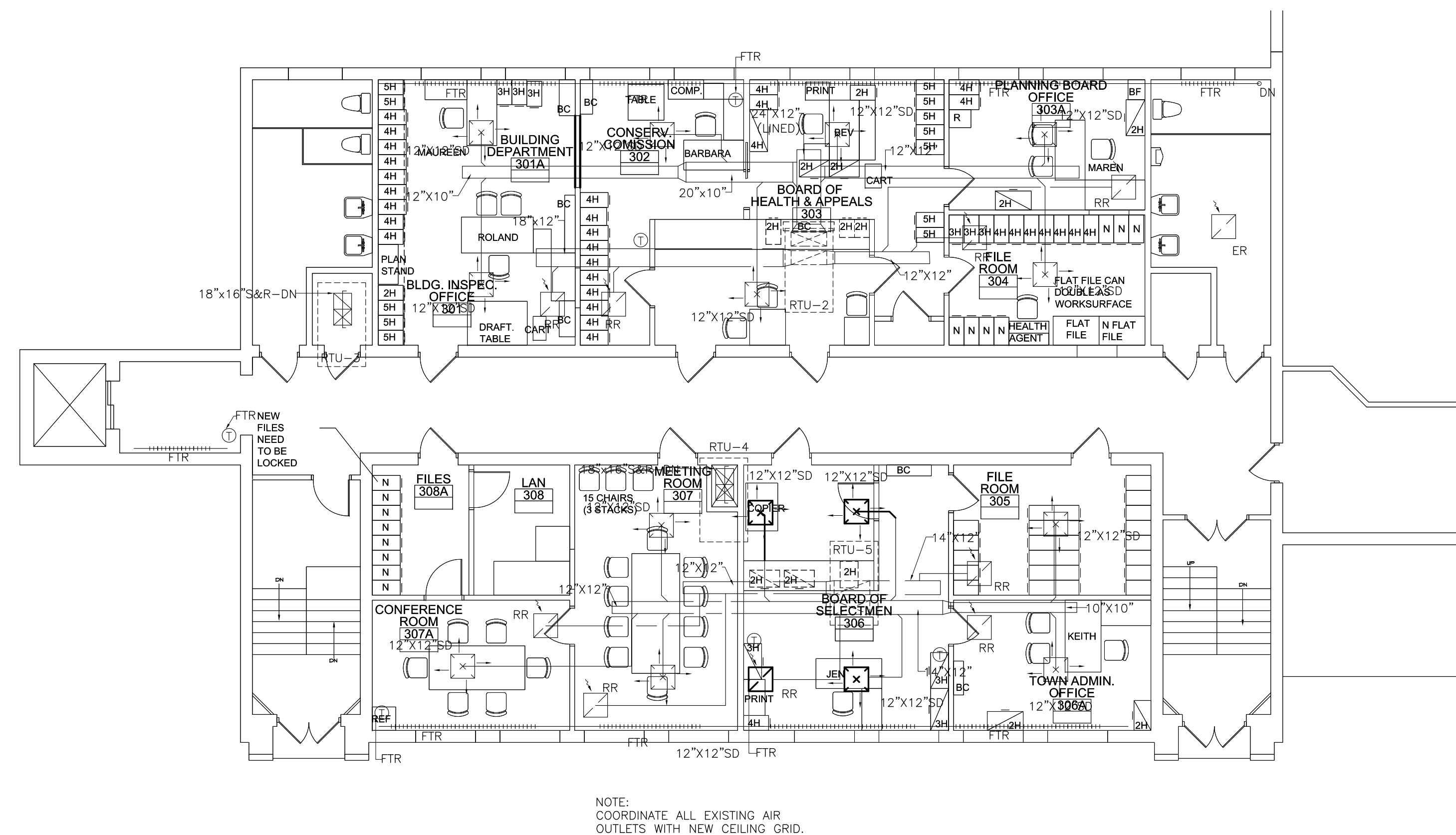
Maugel Architects, Inc.

THESE DOCUMENTS AND ALL IDEAS, ARRANGEMENTS, DESIGNS AND PLANS INDICATED THEREON OR REPRESENTED THEREON ARE OWNED BY AND REMAIN THE PROPERTY OF MAUGEL ARCHITECTS, INC. AND NO PART THEREOF SHALL BE REPRODUCED BY ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER EXCEPT WITH SPECIFIC WRITTEN PERMISSION © 2007 MAUGEL ARCHITECTS, INC.



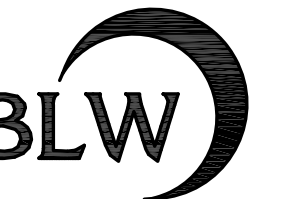
NOTE:
COORDINATE ALL EXISTING AIR
OUTLETS WITH NEW CEILING GRID.

PARTIAL SECOND FLOOR NEW WORK HVAC PLAN 1
SCALE: 1/8"=1'-0"



NOTE:
COORDINATE ALL EXISTING AIR
OUTLETS WITH NEW CEILING GRID.

PARTIAL THIRD FLOOR NEW WORK HVAC PLAN 2
SCALE: 1/8"=1'-0"



BLW Engineers, Inc.
311 Great Road, Post Office Box 1551
Littleton, Massachusetts 01460
t: 978.486.4301 f: 978.428.0067

HVAC • Electrical • Plumbing • Fire Protection

Project:
Littleton Town Hall

37 Shattuck Road
Littleton, MA 01460
Client:
Littleton Parks & Recreation

Littleton, MA 01460
Tel: (978) 952-2311

Project #: 07037

Scale: As Noted

Issue:	Date:
Construction	12.14.07

Revisions:	Date:

Drawing Title:
HVAC Second and Third
New Work HVAC Plans

Sheet Number:

H201

200 Ayer Road
Harvard, MA 01451
Tel: (978) 456-2800
Fax: (978) 456-2801
www.maugel.com
Maugel Architects, Inc.

THESE DOCUMENTS AND ALL KEYS, ARRANGEMENTS, DESIGNS AND PLANS INDICATED THEREON OR REFERENCED THEREIN ARE OWNED BY AND REMAIN THE PROPERTY OF MAUGEL ARCHITECTS, INC. AND NO PART THEREOF SHALL BE REPRODUCED BY ANY PERSON WITHOUT WRITTEN PERMISSION FOR ANY PURPOSE WHATSOEVER EXCEPT WITH SPECIFIC WRITTEN PERMISSION.
© 2007 MAUGEL ARCHITECTS, INC.