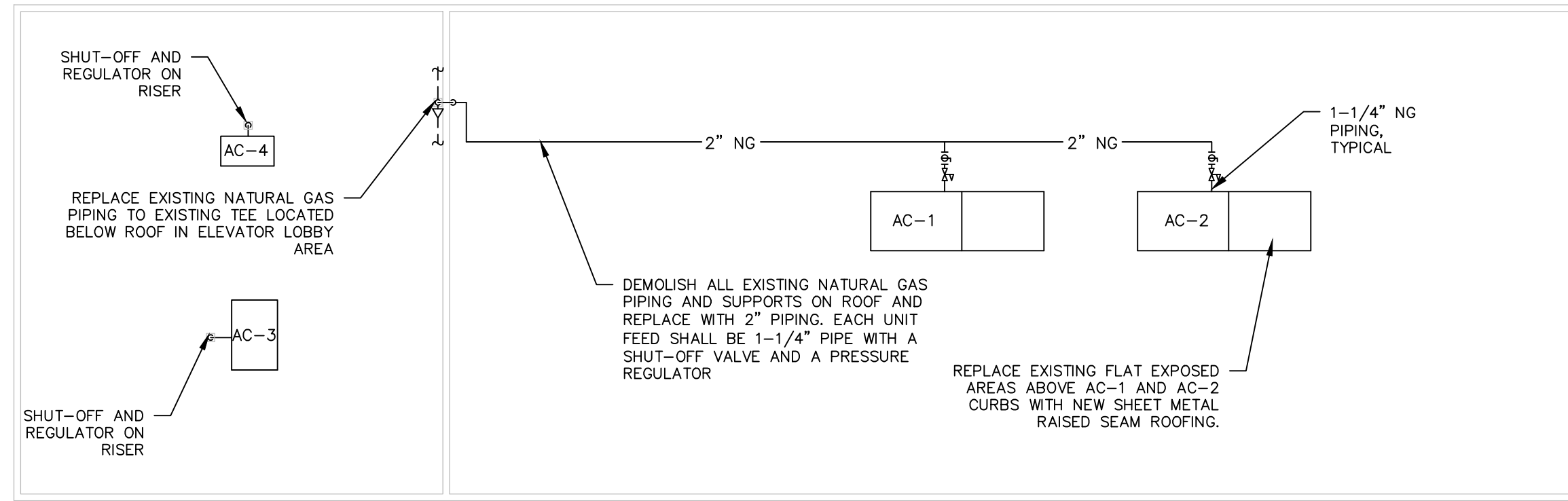
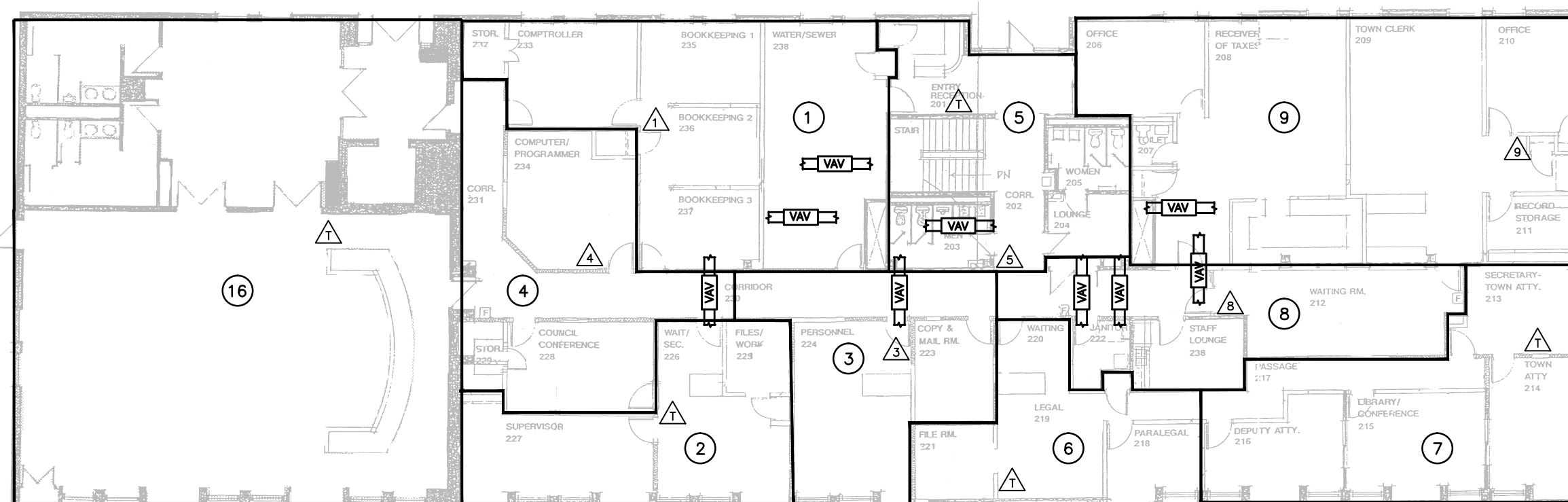


GENERAL REQUIREMENTS/CONDITIONS

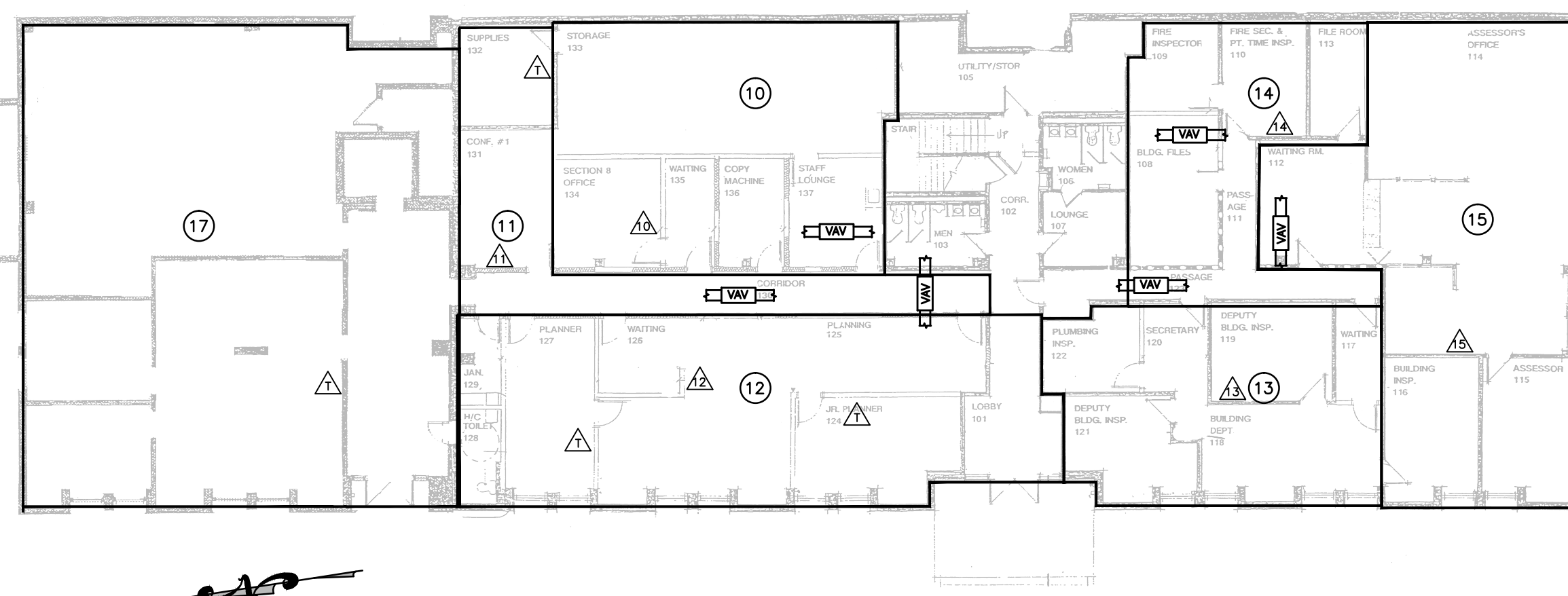
- THE GENERAL PROVISION OF THE PROJECT CONTRACT INCLUDING THE CONDITIONS OF THE CONTRACT (GENERAL, SUPPLEMENTARY AND OTHER CONDITIONS) AS APPROPRIATE, APPLY TO WORK SPECIFIED IN THIS DIVISION.
- THE INTENT OF THESE SPECIFICATIONS IS TO DESCRIBE WORK UNDER THE MECHANICAL SECTIONS CONSISTING OF PROVIDING ALL LABOR, MATERIAL AND EQUIPMENT TO COMPLETE WORK AS SHOWN ON THE DRAWINGS, AND HEREIN SPECIFIED, AND AS REASONABLY IMPLIED BY THE DRAWINGS, SCOPE OF WORK AND SPECIFICATIONS TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS.
- ALL WORK IS TO BE PROVIDED (FURNISHED & INSTALLED) AS PER THE NEW YORK STATE UNIFORM FIRE PREVENTION & BUILDING CODES AND ALL OTHER GOVERNING AUTHORITIES. THE RESPECTIVE CONTRACTOR SHALL PROVIDE ALL PERMITS AND FEES REQUIRED DRAWINGS AND FORMS, ARRANGE FOR INSPECTIONS AND OBTAIN ANY AND ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS TO ALL APPLICABLE CODES/STANDARDS/REQUIREMENTS.
- THE CONTRACTOR UNDER SHALL VISIT THE SITE REGULARLY DURING CONSTRUCTION AND FAMILIARIZE THEMSELVES WITH CONDITIONS AFFECTING THEIR WORK SINCE THEY ARE RESPONSIBLE FOR HAVING A CLEAR UNDERSTANDING OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. NO ADDITIONAL PAYMENTS WILL BE MADE TO CLAIMS THAT ARISE FROM A LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
- MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS. ALL DIMENSIONS SHALL BE TAKEN FROM CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE PERFORMING ANY WORK. DUE TO THE SMALL SCALE OF THE DRAWINGS IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, CHANGES IN ELEVATIONS, ETC., WHICH MAY BE REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION AND DIRECTION OF THE WORK PERFORMED BY THEIR EMPLOYEES AND SHALL AT ALL TIMES PROVIDE SUPERVISORY PERSONNEL TO CARRY OUT THIS RESPONSIBILITY. THE CONTRACTOR WILL INFORM THE OWNER OF THE NAME OF THE SUPERVISOR RESPONSIBLE FOR HIS WORK. THE SUPERVISOR SHALL HAVE AUTHORITY TO ACT AS AGENT FOR THE CONTRACTOR IN HIS ABSENCE.
- MATERIAL AND EQUIPMENT IN THIS SPECIFICATION AND ON THE DRAWINGS ARE SPECIFIED BY MANUFACTURER, AND EQUIPMENT SO SPECIFIED IS THE BASIS FOR THE DESIGN AND DRAWINGS. THESE ARE TO BE CONSIDERED AS THE "SPECIFIED STANDARD" AND SHALL SERVE TO ESTABLISH A STANDARD TO TYPE, DIMENSION, QUALITY AND OPERATIONAL CHARACTERISTICS FOR SUCH EQUIPMENT. ALTERNATE EQUIPMENT AND MATERIAL MAY BE SUBSTITUTED WITH THE OWNER'S APPROVAL. ANY ADDITIONAL MATERIAL OR WORK INCURRED AS A RESULT OF USING ALTERNATE EQUIPMENT SHALL BE PAID FOR BY THE CONTRACTOR.
- CONTRACTORS SHALL BE RESPONSIBLE FOR THE DELIVERY, HOISTING, STORAGE AND PROTECTION OF MATERIALS AND EQUIPMENT. STORE MATERIALS ONLY IN SUCH LOCATIONS AS APPROVED AND/OR DIRECTED BY THE OWNER. MOVE STORED MATERIALS WHEN, IN THE OPINION OF THE CONSTRUCTION MANAGER, JOB CONDITIONS REQUIRE.
- INSTALL PIPING, DUCTWORK AND EQUIPMENT TO AVOID INTERFERENCE WITH REMOVAL OF COILS, FILTERS, BELT GUARDS, OR ANY OPERATING PART OF ALL SYSTEMS. AVOID INTERFERENCE WITH THE OPERATION OF DOORS; PROVIDE EASY ACCESS TO VALVES, CONTROLLERS, MOTORS, STARTERS AND OTHER EQUIPMENT. MAINTAIN ADEQUATE CLEARANCE FOR THE OPENING OF ACCESS DOORS, SWITCH BOXES, MOTOR STARTER, PANEL BOARDS, ETC. THOROUGHLY COORDINATE WORK WITH THAT OF OTHER CONTRACTORS, MAINTAIN MAXIMUM HEAD ROOM, RAISE PIPING WHERE NECESSARY, AND CHANGE DUCT SIZES TO FIT CONDITIONS, KEEPING THE SAME CROSS SECTIONAL AREA. OBTAIN APPROVAL BEFORE MAKING CHANGES. VERIFY ALL CHANGES WITH THE CONSTRUCTION MANAGER.
- ALL ELECTRICAL EQUIPMENT FURNISHED UNDER THIS DIVISION OF THESE SPECIFICATIONS SHALL COMPLY WITH THE ELECTRICAL SYSTEM CHARACTERISTICS INDICATED ON THE PLANS. MOTORS SHALL BE HIGH EFFICIENCY TYPE.
- SEVEN (7) COPIES OF EQUIPMENT DRAWINGS AND CATALOGUE DATA, WHICH SUPPORT AND PROVE COMPLIANCE WITH THE DETAILS OF THE DRAWINGS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE OWNER FOR FINAL REVIEW BEFORE ORDERING AND INSTALLATION OF THESE ITEMS. FAILURE TO COMPLY SHALL BE CAUSE FOR REJECTION. SUBMITTALS SHALL BE MADE ON THE ITEMS AS LISTED IN THE SCHEDULES. VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS.
- THE WORK INCLUDED UNDER THIS SECTION SHALL CONSIST OF PROVIDING, ALL MATERIALS, SUPPLIES, EQUIPMENT, TOOLS, TRANSPORTATION AND FACILITIES, AND PERFORMING ALL LABOR AND SERVICES NECESSARY FOR, REQUIRED IN CONNECTION WITH, OR PROPERLY INCIDENTAL TO THE INSTALLATION OF THE WORK DESCRIBED IN THIS SECTION OF THE SPECIFICATIONS AND/OR SHOWN ON THE DRAWINGS, OR REASONABLY IMPLIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIT, LINES, ELEVATIONS, AND MEASUREMENTS OF THE WORK. HE MUST EXERCISE PROPER PRECAUTION BEFORE LAYING OUT THE WORK AND SHALL BE RESPONSIBLE FOR ANY ERROR RESULTING FROM HIS FAILURE TO EXERCISE SUCH PRECAUTION.
- THE CONTRACTOR MAY PROPOSE CHANGES BY SUBMITTING A REQUEST FOR CHANGE TO THE PROJECT MANAGER, DESCRIBING THE PROPOSED CHANGE AND ITS FULL EFFECT ON THE WORK, INCLUDE A STATEMENT DESCRIBING THE REASON FOR THE CHANGE, AND THE EFFECT ON THE CONTRACT SUM/PRICE AND CONTRACT TIME WITH FULL DOCUMENTATION.
- UNLESS OTHERWISE SPECIFIED, INCLUDE CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN AREAS OF THE ADDITION AND THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
- THE CONTRACTOR SHALL NOT UNREASONABLY ENCUMBER THE PREMISES WITH HIS MATERIALS. THE CONTRACTOR SHALL MAINTAIN THE PREMISES IN A NEAT AND ORDERLY CONDITION AND SHALL GATHER, REMOVE, CART AWAY AND DISPOSE OF HIS SUPERFLUOUS OR USELESS MATERIAL AS IT ACCUMULATES. MATERIALS STORED OUTSIDE OF BOILER ROOM MUST BE APPROVED BY SYDA.
- THE CONTRACTOR SHALL AT HIS OWN EXPENSE FURNISH AND MAINTAIN ALL POWER WIRING (EXTENSION CORDS, ETC.) NECESSARY TO SUPPLY POWER FOR HIS WORK AND UPON COMPLETION OF HIS WORK, HE SHALL REMOVE ALL TEMPORARY POWER LINES INSTALLED BY HIM.
- THE CONTRACTORS SHALL LOCATE ALL EQUIPMENT, WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO VALVES, ACTUATORS, GAUGES, THERMOMETERS, AIR VENTS, DRAIN POINTS, ETC.
- AT THE COMPLETION OF WORK, THE CONTRACTOR SHALL CLEAN-UP AND REMOVE FROM THE BUILDING AND PREMISES, ALL RUBBISH AND DEBRIS RESULTING FROM ITS OPERATIONS AND SHALL LEAVE ALL MATERIAL AND EQUIPMENT UNDER ITS JURISDICTION AND THE SPACE OCCUPIED BY IT BROOM-CLEAN AND READY FOR USE. ANY DAMAGE SHALL BE REPAIRED AND SURFACES OF PIPING AND EQUIPMENT SHALL BE PREPARED FOR SUBSEQUENT PAINTING.
- PRIOR TO ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL DEMONSTRATE TO THE OWNER OR HIS DESIGNATED REPRESENTATIVE ALL FEATURES AND FUNCTIONS OF ALL SYSTEMS AND SHALL INSTRUCT THE OWNER IN THE PROPER OPERATION OF THE SYSTEMS. EACH SYSTEM SHALL BE DEMONSTRATED ONCE. THE DEMONSTRATIONS SHALL CONSIST OF NOT LESS THAN THE FOLLOWING:
- AS WORK PROGRESSES DURING THE CONSTRUCTION PERIOD, THIS CONTRACTOR SHALL RECORD (ON A DEDICATED SET OF BID DRAWINGS) ANY DEVIATIONS FROM THE DESIGN DRAWINGS. THE COMPLETED RECORD SET OF AS-BUILT DRAWINGS SHALL BE DELIVERED TO THE OWNER PRIOR TO THIS CONTRACTOR'S REQUEST FOR FINAL PAYMENT.
- THE RESPECTIVE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, WORKMANSHIP AND THE SUCCESSFUL OPERATION OF ALL EQUIPMENT AND APPARATUS INSTALLED BY HIM FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE ENTIRE WORK AND SHALL GUARANTEE TO REPAIR OR REPLACE AT HIS OWN EXPENSE ANY PART OF THE APPARATUS WHICH MAY SHOW DEFECT DURING THAT TIME, PROVIDED SUCH DEFECT IS, IN THE OPINION OF THE OWNER, DUE TO IMPERFECT MATERIAL OR WORKMANSHIP AND NOT TO CARELESSNESS OR IMPROPER USE. THIS GUARANTEE IS TO BE IN WRITING TO THE OWNER.



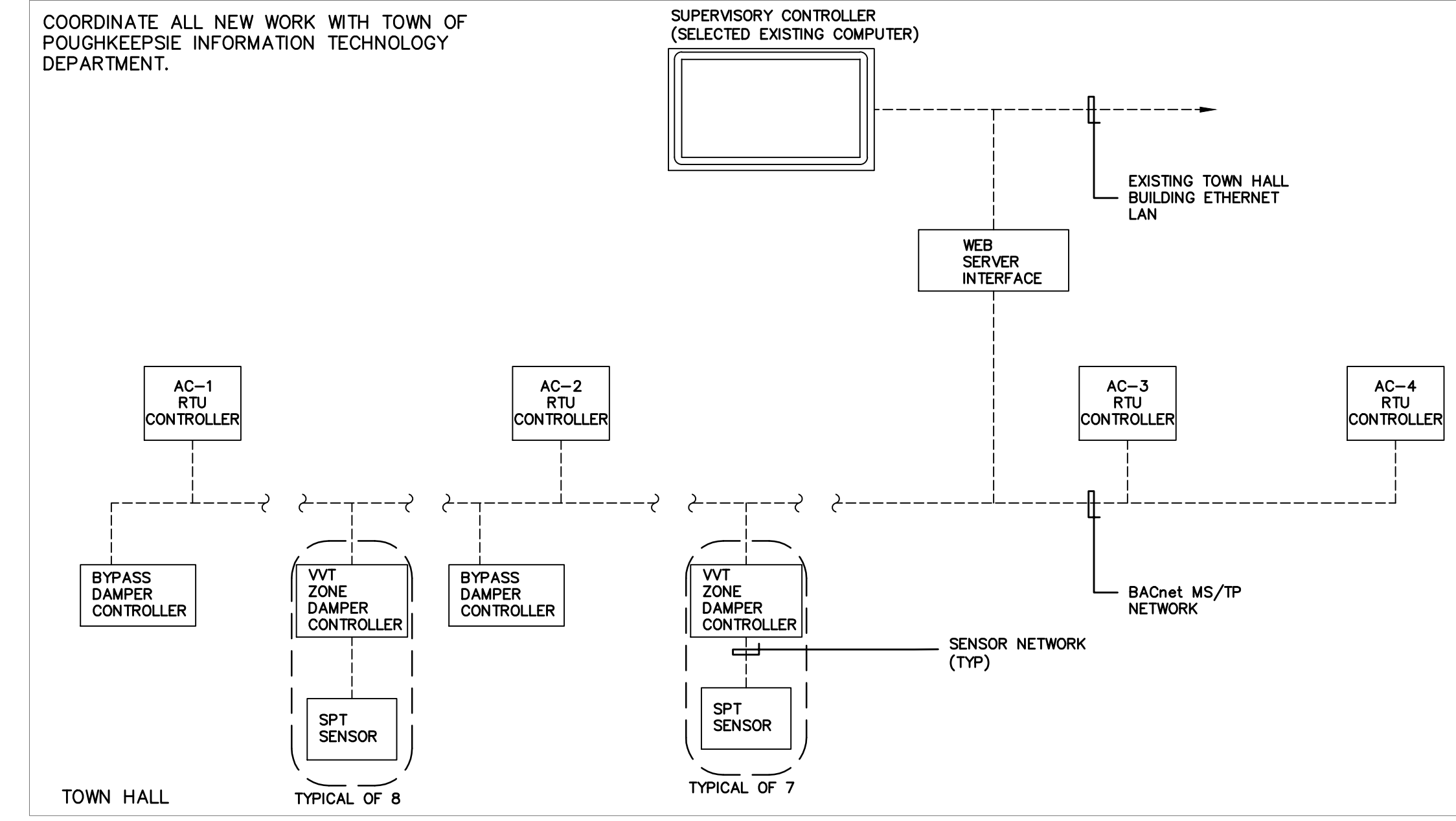
1 ROOF LEVEL
M1 N.T.S.



2 UPPER LEVEL
M1 N.T.S.



3 LOWER LEVEL
M1 N.T.S.



4 HVAC NETWORK CONTROL SCHEMATIC
M1 N.T.S.

| UNIT LABEL | ZONE DESCRIPTION | | | | AREA (SF) | EXISTING EQUIPMENT | PROPOSED BASIS OF DESIGN EQUIPMENT | | | |
|------------|------------------|----------------------|--------------|---|------------------------------|--|--|------|--|--|
| | ZONE LABEL | ZONE VAV DAMPER SIZE | LEVEL SERVED | AREA SERVED | | | | | | |
| AC-1 | ZONE 1 | 16" DIA. | UPPER | COMPTROLLER/BOOKKEEPER | 1270 | LENNOX CGS11-2753-450A-SW NOMINAL 20 TONS COOLING 369 MBH HEATING VVT SYSTEM AND CONTROLS VVT SYSTEM AND CONTROLS VOLTAGE: 208-230 VOLTS MCA: 110 AMPS | CARRIER 48HCTD24BCA5-2H2CO NOMINAL 20 TONS COOLING 324 MBH HEATING OUTPUT VVT SYSTEM AND CONTROLS VVT SYSTEM AND CONTROLS VOLTAGE: 208-230 VOLTS MCA: 118.8 AMPS | | | |
| | ZONE 2 | 12" DIA. | UPPER | SUPERVISORS AREA | 700 | | | | | |
| | ZONE 3 | 12" DIA. | UPPER | PERSONNEL/CORRIDOR | 700 | | | | | |
| | ZONE 4 | 14" DIA. | UPPER | CONFERENCE/CORRIDOR | 700 | | | | | |
| | ZONE 5 | 8" DIA. | UPPER | ENTRY CORRIDOR | 700 | | | | | |
| | ZONE 10 | 16" DIA. | LOWER | SECTION 8/STORAGE AREA | 700 | | | | | |
| | ZONE 11 | 12" DIA. | LOWER | CONFERENCE/CORRIDOR | 700 | | | | | |
| | ZONE 12 | 16" DIA. | LOWER | PLANNING/ENGINEERING | 700 | | | | | |
| | A/C-1 BYPASS | | A/C-1 | | | | | | | |
| | AC-2 | ZONE 6 | 10" DIA. | UPPER | LEGAL ADMINISTRATIVE OFFICES | | | 575 | LENNOX CGS11-2753-450A-SW NOMINAL 20 TONS COOLING 369 MBH HEATING VVT SYSTEM AND CONTROLS VVT SYSTEM AND CONTROLS VOLTAGE: 208-230 VOLTS MCA: 110 AMPS | CARRIER 48HCTD24BCA5-2H2CO NOMINAL 20 TONS COOLING 324 MBH HEATING OUTPUT VVT SYSTEM AND CONTROLS VVT SYSTEM AND CONTROLS VOLTAGE: 208-230 VOLTS MCA: 118.8 AMPS |
| | | ZONE 7 | 14" DIA. | UPPER | LEGAL LAWYERS OFFICES | | | 1030 | | |
| | | ZONE 8 | 10" DIA. | UPPER | WAITING AREA | | | 525 | | |
| ZONE 9 | | 24"Wx13"Hx11"L | UPPER | TOWN CLERK/RECEIVER OF TAXES | 1850 | | | | | |
| ZONE 13 | | 14" DIA. | LOWER | BUILDING DEPARTMENT | 1100 | | | | | |
| ZONE 14 | | 16" DIA. | LOWER | FIRE INSPECTOR DEPARTMENT | 900 | | | | | |
| AC-3 | ZONE 15 | 16" DIA. | LOWER | ASSESSORS OFFICES | 1800 | TRANE YCD180B3H044 NOMINAL 15 TONS COOLING 284 MBH HEATING VOLTAGE: 208-230 VOLTS MCA: 81.5 AMPS | CARRIER 48HCTD17B3A5-2H2CO NOMINAL 15 TONS COOLING 284 MBH HEATING OUTPUT VOLTAGE: 208-230 VOLTS MCA: 92.4 AMPS | | | |
| | A/C-2 BYPASS | | A/C-2 | | | | | | | |
| AC-4 | ZONE 16 | N/A | UPPER | TOWN MEETING ROOM ENTRY LOBBY/REST ROOMS | 2090 1350 | TRANE YCD06A3H0AB NOMINAL 5 TONS COOLING 135 MBH HEATING VOLTAGE: 208-230 VOLTS MCA: 28.8 AMPS | CARRIER 48HCR06B3A5-2F0C1 NOMINAL 5 TONS COOLING 135 MBH HEATING OUTPUT VOLTAGE: 208-230 VOLTS MCA: 28.8 AMPS | | | |
| | ZONE 17 | N/A | LOWER | ZONING DEPARTMENT OFFICES | 1175 | | | | | |
| | | | | RECORD STORAGE ENTRY CORRIDOR | 1600 550 | | | | | |

NOTE: AC-1 AND AC-2 BYPASS DAMPERS WERE NOT READILY ACCESSIBLE AND COULD NOT BE LOCATED DURING SITE OBSERVATIONS. CONTRACTOR TO LOCATED AND REVISE AS BUILT DRAWINGS ACCORDINGLY.

LEGEND

- ZONE BOUNDARY AND DESIGNATION
- VARIABLE AIR VOLUME DAMPER AND DESIGNATION
- VAV BOX THERMOSTAT CONTROL
- ELECTRIC BASEBOARD THERMOSTAT CONTROL
- ROOFTOP A.C. UNIT
- PRESSURE REGULATING VALVE
- SHUT-OFF VALVE

| | | | |
|----------|----------------|----------|----|
| A | ISSUED FOR BID | 11-21-11 | MA |
| REV. No. | DESCRIPTION | DATE | BY |

**TOWN OF POUGHKEEPSIE
TOWN HALL HVAC REPLACEMENT**
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

**HVAC
PLANS AND SCHEDULES**

MORRIS ASSOCIATES
ENGINEERING CONSULTANTS, PLLC
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64 Green Street, Hudson, New York 12534
Phone No. (845) 454-3411 Phone No. (518) 828-2300
Fax No. (845) 473-1962 Fax No. (518) 828-3963

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| DATE | SCALE | DESIGNED BY: MA | FILE No. | DRAWING No. |
| 10-26-11 | AS SHOWN | CHECKED BY: MA | 211408.20 | M1 |