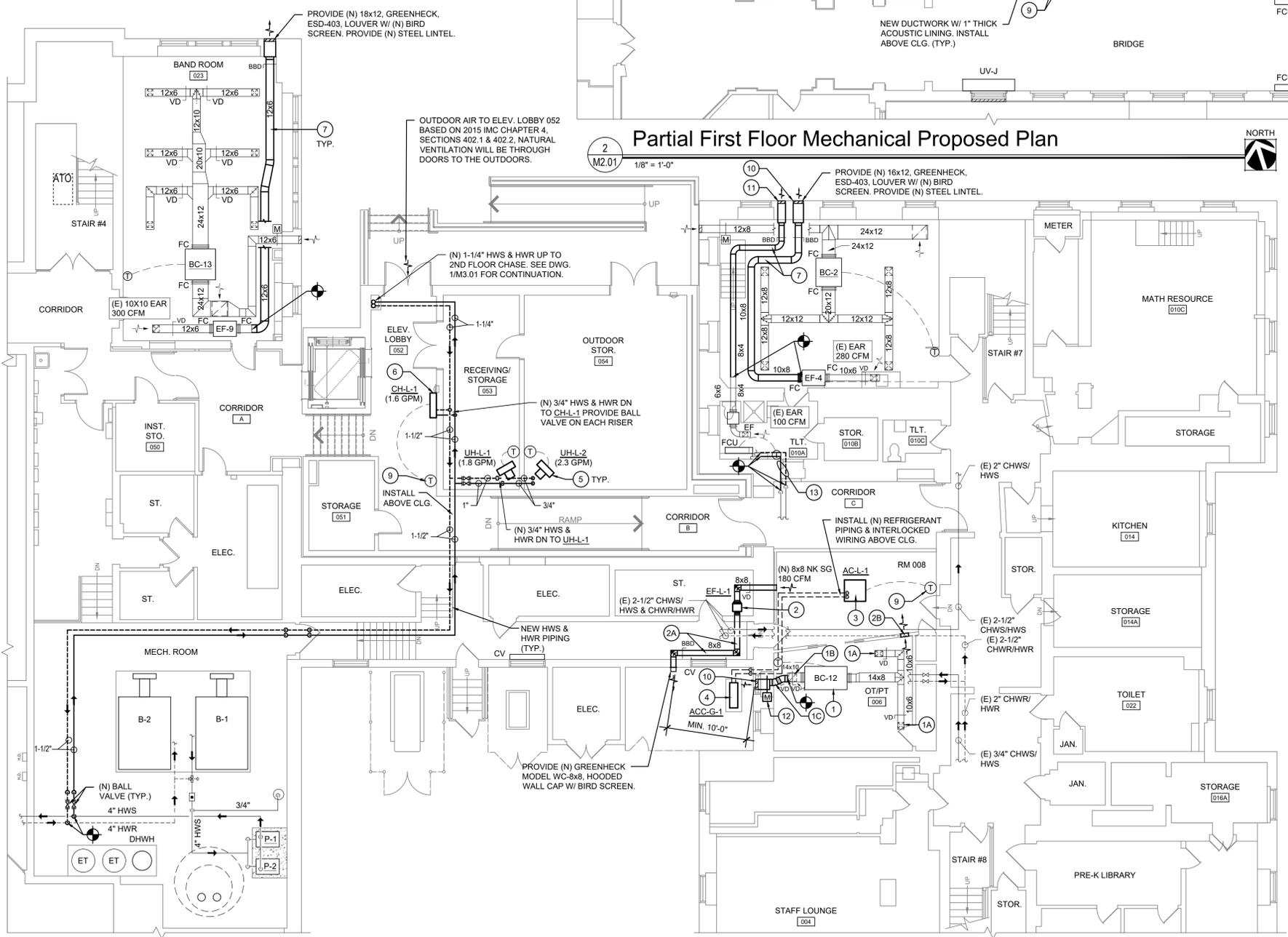
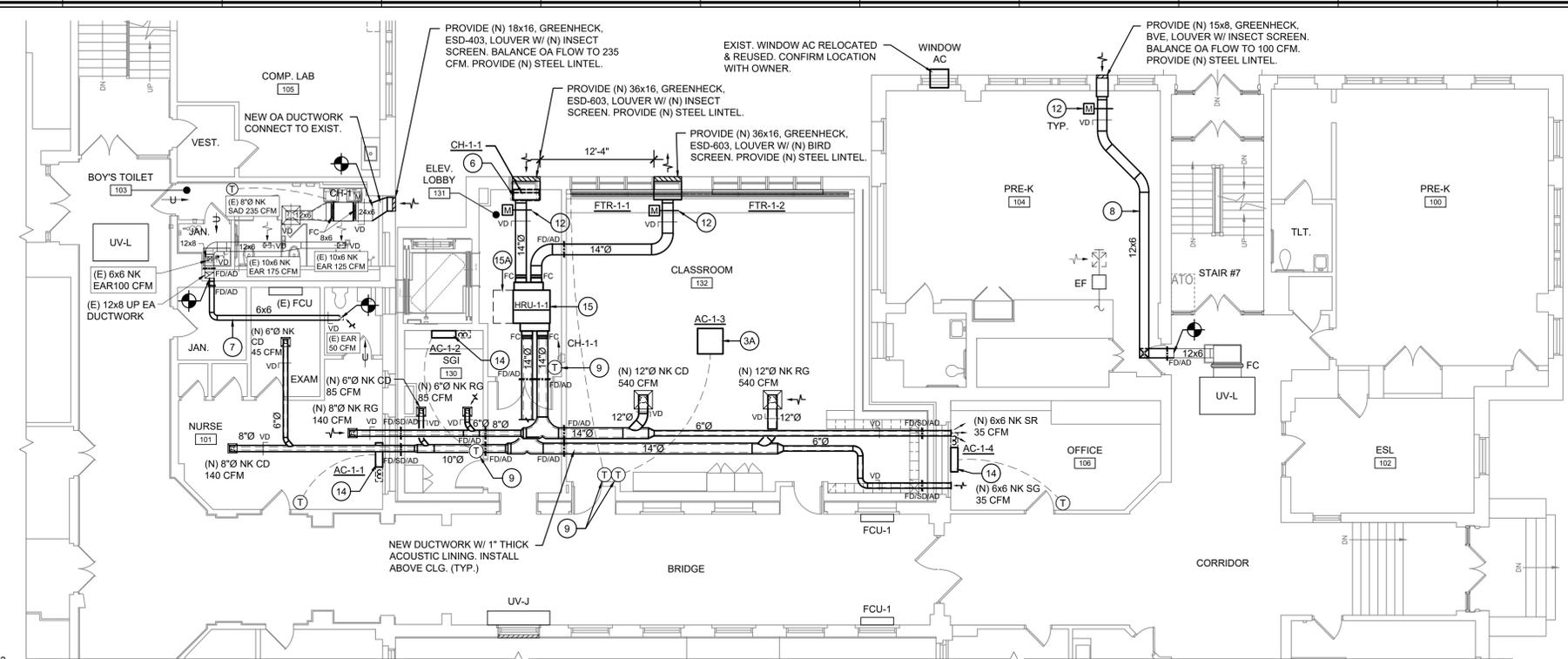


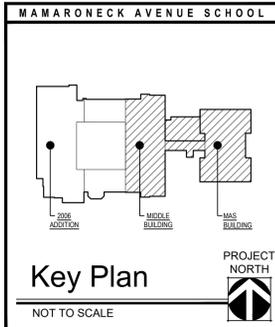
GENERAL MECHANICAL CONSTRUCTION NOTES

- SIZES & LOCATIONS OF EXIST. MECH. EQUIPMENT, DUCTWORK, PIPING, AIR INLETS/OUTLETS, ETC. SHOWN ON DRAWINGS ARE BASED ON EXIST. DRAWINGS & SITE OBSERVATIONS, & THEY ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE TO VERIFY EXACT LOCATIONS IN FIELD.
- NOT ALL EXIST. DUCTWORK, PIPING & UTILITIES ARE SHOWN ON DRAWINGS. VERIFY IN FIELD
- GC IS RESPONSIBLE TO REMOVE EXIST. SUSPENDED CEILING GRIDS, CEILING TILES, LIGHT FIXTURES, FIRE ALARM DEVICES, ETC. TO ACCOMMODATE DEMOLITION OF EXIST. HVAC/HV EQUIPMENT, DUCTWORK, PIPING, ETC. REINSTALL TO MATCH EXIST.
- GC IS RESPONSIBLE TO SAWCUT & CORE DRILL EXIST. WALLS / FLOORS / CLG. FOR NEW DUCTWORK / PIPING / CONDUIT PENETRATIONS. PATCH & CAULK W/ 2-HR RATED FIRESTOPPING MATERIALS.
- ANY CUTTING, PATCHING, OR FINISH REPAIR WORK REQUIRED FOR MECHANICAL INSTALLATION IS THE RESPONSIBILITY OF THE GC.
- MC IS RESPONSIBLE TO ISOLATE / SHUT-DOWN & DRAIN-DOWN EXIST. HEATING PIPING SYSTEMS TO ACCOMMODATE MECHANICAL DEMOLITION & NEW INSTALLATION. RESTORE THE SYSTEMS AFTER ALL WORK IS COMPLETE.
- ALL NEW DDC WIRING SHALL BE INSTALLED CONCEALED ABOUT EXIST. / NEW SUSPENDED CLG. WHEREVER NEW THERMOSTATS ARE INSTALLED ON NEW WALLS, ALL NEW DDC WIRING FROM MECH. EQUIPMENT TO NEW THERMOSTATS SHALL BE INSTALLED CONCEALED IN WALLS. WHEREVER NEW THERMOSTATS ARE INSTALLED ON EXIST. MASONRY WALL, ALL NEW DDC WIRING FROM HVAC EQUIPMENT TO NEW THERMOSTATS SHALL BE INSTALLED IN WIREMOLD (COLOR TO BE SELECTED BY OWNER).
- GC IS RESPONSIBLE TO PROPERLY PROTECT EXIST. FLOORS, WALLS, CEILING, FURNITURE, EQUIPMENT, ETC. DURING CONSTRUCTION. ALL DAMAGED ITEMS SHALL BE REPAIRED/REPLACED AT EXPENSE OF THE GC.
- ALL EXIST. DUCTWORK & AIR INLETS/OUTLETS THAT ARE SHOWN TO REMAIN & BE REUSED SHALL BE VACUUM-CLEANED THOROUGHLY TO BE FREE OF DUST & DEBRIS. PROVIDE PHOTO DOCUMENTATION BEFORE & AFTER CLEANING.



ITEM #	MECHANICAL CONSTRUCTION KEY NOTES
1	EXIST. BLOWER COIL UNIT (BC-12) TO BE BALANCED TO 500 SA CFM & OA FLOW TO 180 CFM.
1A	EXIST. SUPPLY AIR OUTLETS TO BE REUSED. PROVIDE & INSTALL NEW VOLUME DAMPERS ON EXIST DUCTWORK & BALANCE TO 250 CFM EACH.
1B	EXIST. RETURN AIR INLET TO BE REUSED. PROVIDE & INSTALL NEW VOLUME DAMPER ON EXIST DUCTWORK REGISTER & BALANCE TO 320 CFM.
1C	NEW OUTDOOR AIR DUCTWORK.
2	PROVIDE & INSTALL NEW CEILING-HUNG EXHAUST FAN (EF) OF SIZE & CAPACITIES SCHEDULED, COMPLETE W/ DUCTWORK, DAMPERS, SUPPORTS, ELECTRICAL, CONTROLS & ALL ASSOCIATED APPURTENANCES. INTERLOCK W/ EXIST. BC-12. INSTALL BELOW EXIST. ELECTRICAL CONDUITS & PIPING. BALANCE EA FLOW TO 180 CFM.
2A	INSTALL NEW 8x8 EA DUCTWORK MIN. 6'-10" A.F.F. & BELOW EXISTING CONDUITS & PIPING.
2B	(2) NEW 12x12 TRANSFER GRILLES, ONE ON EACH SIDE OF WALL. COORDINATE FINAL LOCATION WITH THE OPERATION OF THE SLIDING DOOR.
3	PROVIDE & INSTALL NEW CEILING-MOUNTED CASSETTE TYPE AC HEAT PUMP UNIT OF SIZE & CAPACITIES SCHEDULED, COMPLETE W/ ALL REFRIGERANT PIPING, VALVES, SUPPORTS, ELECTRICAL, CONTROLS, BUILT-IN CONDENSATE DRAIN PUMP & ALL ASSOCIATED APPURTENANCES.
3A	PROVIDE & INSTALL NEW VRF CEILING-MOUNTED CASSETTE TYPE AC HEAT PUMP UNIT OF SIZE & CAPACITIES SCHEDULED, COMPLETE W/ ALL REFRIGERANT PIPING, VALVES, SUPPORTS, ELECTRICAL, CONTROLS, BUILT-IN CONDENSATE DRAIN PUMP & ALL ASSOCIATED APPURTENANCES.
4	PROVIDE & INSTALL NEW AIR-COOLED CONDENSING UNIT OF SIZE & CAPACITIES SCHEDULED ON NEW 6" HIGH CONCRETE PAD, COMPLETE W/ ALL PIPING, VALVES, SUPPORTS, CONTROLS & ALL ASSOCIATED APPURTENANCES.
5	PROVIDE & INSTALL NEW HOT WATER UNIT HEATER OF SIZE & CAPACITIES SCHEDULED AT CEILING, COMPLETE W/ ALL PIPING, VALVES, INSULATION, SUPPORTS, ELECTRICAL, CONTROLS, & ALL ASSOCIATED APPURTENANCES. SEE PIPING DETAIL 5/M6.01.
6	PROVIDE & INSTALL NEW FLOOR-MOUNTED CABINET HEATER OF SIZE & CAPACITIES SCHEDULED, COMPLETE W/ PIPING, VALVES, SUPPORTS, ELECTRICAL, CONTROLS, & ALL ASSOCIATED APPURTENANCES.
7	INSTALL NEW EXHAUST AIR DUCTWORK ABOVE CEILING & CONNECT TO EXIST.
8	INSTALL NEW FRESH AIR INTAKE DUCTWORK ABOVE CEILING & CONNECT TO EXIST.
9	PROVIDE NEW THERMOSTAT IN LOCKABLE ENCLOSURE.
10	PROVIDE NEW GREENHECK, ESD-403, LOUVER W/ (N) INSECT SCREEN ON UPPER WINDOW PANEL. BALANCE OUTDOOR AIR FLOW TO 180 CFM.
11	PROVIDE (N) 12x8, GREENHECK, BVE, LOUVER W/ (N) BIRD SCREEN. PROVIDE (N) STEEL LINTEL.
12	NEW MOTORIZED DAMPER TO INTERLOCK W/ ASSOCIATED MECHANICAL EQUIPMENT.
13	NEW DUAL-TEMP PIPING (CHWS/HWS & CHWR/HWR) ROUTED TO ACCOMMODATE FOR NEW CONSTRUCTION.
14	PROVIDE & INSTALL NEW VRF WALL-MOUNTED DUCTLESS SPLIT AC HEAT PUMP UNIT OF SIZE & CAPACITIES SCHEDULED, COMPLETE W/ ALL REFRIGERANT PIPING, VALVES, SUPPORTS, ELECTRICAL, CONTROLS, CONDENSATE DRAIN PUMP & ALL ASSOCIATED APPURTENANCES.
15	PROVIDE & INSTALL NEW HEAT RECOVER UNIT (HRU) OF SIZE & CAPACITIES SCHEDULED, COMPLETE W/ ALL DUCTWORK, DAMPERS, LOUVERS, SUPPORTS, ELECTRICAL, CONTROLS & ALL ASSOCIATED APPURTENANCES.
15A	HRU EQUIPMENT SERVICE CLEARANCE. MINIMUM 24" SPACING FROM SERVICE COVER SIDE.

NOTE - FLOOR REPLACEMENT MECHANICAL PROPOSED WORK:
MECHANICAL EQUIPMENT (UNIT VENTILATORS (UVs), FAN COIL UNITS (FCUs), CABINET HEATERS (CHs), ETC.) & ASSOCIATED PIPE ENCLOSURES TO BE TEMPORARILY REMOVED AND SHALL BE REINSTALLED DURING FLOOR REPLACEMENT PROJECT ARE NOT SHOWN ON MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR (MC) SHALL REFER TO ARCHITECTURAL DEMOLITION PLANS DRAWINGS A1.02 THRU A1.05, ARCHITECTURAL PROPOSED PLANS DRAWINGS A2.02 THRU A2.05 AND PROPOSED FLOOR FINISH PLANS A2.20 THRU A2.25 AND REFER TO NOTES #106 ON DEMOLITION KEY NOTES DRAWING A1.00 AND #82 ON CONSTRUCTION KEY NOTES DRAWING A2.00 FOR SCOPE OF WORK REQUIRED BY THE MC ASSOCIATED WITH THE FLOOR REPLACEMENT PROJECT. MC IS RESPONSIBLE FOR THIS SCOPE OF WORK.



Date: 1/10/20
Checked: MAM
Drawn: IM

MICHAEL J. MCGOVERN, P.E.
REGISTERED ARCHITECT
License No. 022257-1

Revisions:
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11/23/20

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MECHANICAL PROPOSED PLANS
2019 BOND REFERENDUM
MAMARONECK AVENUE ELEMENTARY SCHOOL
MAMARONECK UNION FREE SCHOOL DISTRICT
850 MAMARONECK AVENUE, MAMARONECK, NY 10543

NYSED PROJECT # 66-07-01-03-0-004-030

Job No. 4.1092.72.2
File No. 10927202M201

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