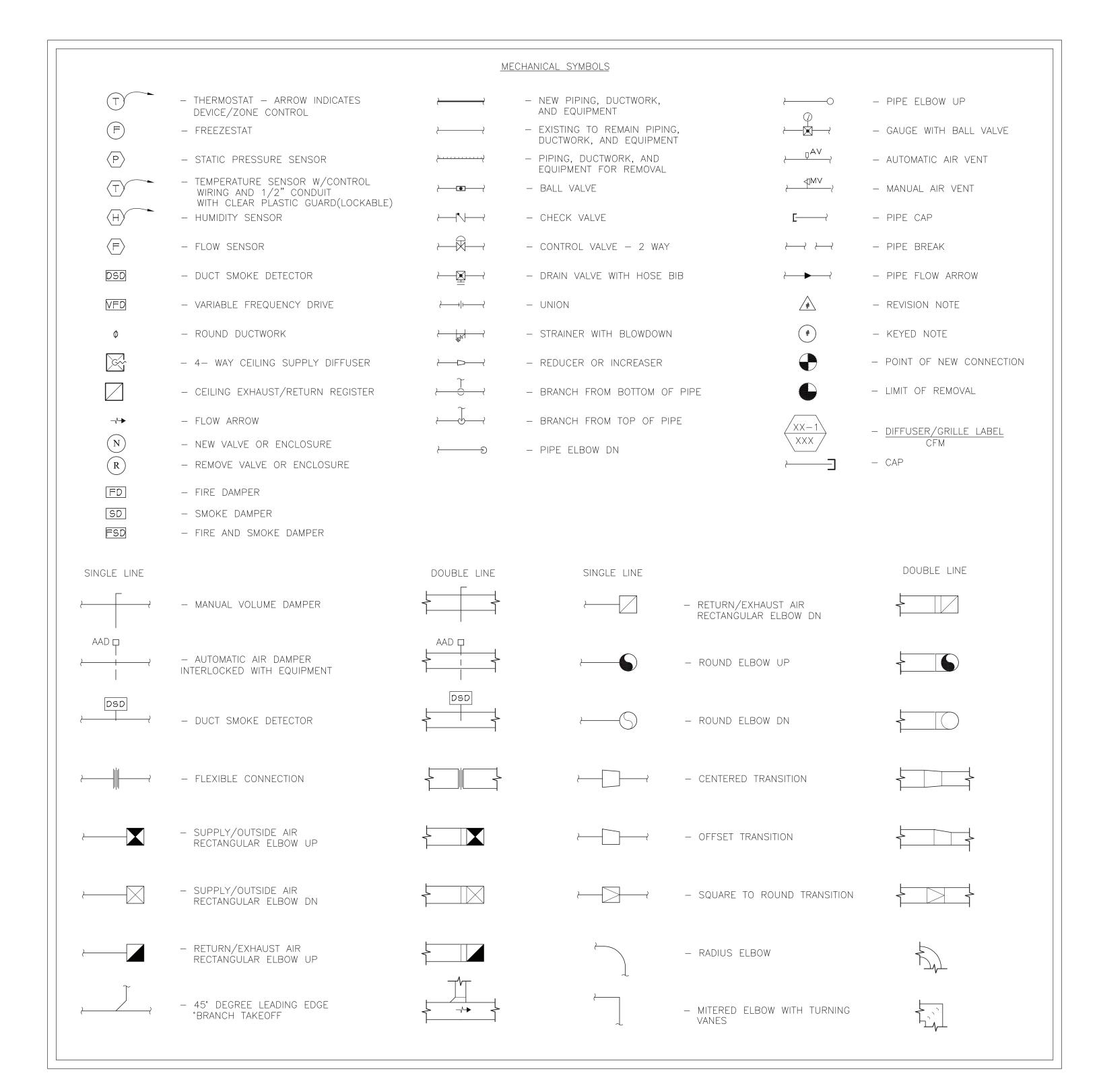
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT; HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFICALLY SPECIFIED TO MAKE THE SYSTEMS BEING INSTALLED COMPLETE, CODE COMPLIANT, TESTED AND OPERATIONAL.
- . CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- . ALL MATERIALS, EQUIPMENT, METHODS OF INSTALLATION, REMOVALS AND DISPOSAL SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
- 4. PERFORM WORK, PROVIDE MATERIALS AND EQUIPMENT FOR SYSTEMS SHOWN, SPECIFIED AND DESCRIBED ON DRAWINGS. COMPLETELY COORDINATE ALL TRADES OF THIS CONTRACT AND PROVIDE COMPLETE AND FULLY FUNCTIONAL INSTALLATION. ALL WORK IN THIS SET TO BE COMPLETED UNDER THIS CONTRACT, UNLESS OTHERWISE INDICATED.
- 5. PROTECT ALL EXISTING AND NEW BUILDING ELEMENTS (INSTALLED BY OTHER CONTRACTS) FROM DAMAGE. CONTRACTOR SHALL RESTORE ALL DAMAGED ELEMENTS TO ORIGINAL OR BETTER
- 6. WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES. DO NOT RUN PIPES, DUCTS, AND CONDUIT EXPOSED UNLESS SHOWN AND NOTED TO BE EXPOSED ON DRAWINGS.
- . MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT
- 8. CONTRACTOR IS RESPONSIBLE FOR ALL WORK RELATED TO ISOLATING, SHUTTING DOWN, DRAINING, FILLING AND TESTING SYSTEMS TO ALLOW FOR COMPLETION OF WORK. INTERRUPTIONS TO EXISTING SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE OWNER AND UTILITY AS APPLICABLE. INCLUDE ALL PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS. ALL SYSTEM INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER, UTILITY AND COORDINATED WITH OTHER TRADE WORK.
- 9. ALL EQUIPMENT PIPING, WIRING, INSULATION ETC. INSTALLED IN HVAC AIR PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
- 10. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS AND FLOORS WITH UL RATED MATERIALS/METHODS EQUIVALENT TO FIRE RATING OF ASSEMBLY.
- 11. COORDINATE ALL WALL/FOUNDATION PENETRATIONS WITH GENERAL CONTRACT AND SEAL WEATHERTIGHT. PROVIDE STAINLESS STEEL ESCUTCHEON PLATE/TRIM RING FOR EACH ABOVE GRADE PENETRATION (BOTH SIDES).
- 12. PROVIDE PROPER ACCESS TO EQUIPMENT THAT REQUIRES INSPECTION, REPLACEMENT OR REPAIR. ACCESS PANELS/DOORS SHALL BE A MINIMUM OF 12"x12", UNLESS OTHERWISE NOTED.
- 13. DO NOT SUPPORT EQUIPMENT FROM SUSPENDED CEILINGS. ALL SUPPORT SHALL BE FROM BUILDING STRUCTURE OR FROM CEILING SUSPENSION SYSTEM WHICH HAS BEEN REINFORCED. SUPPORTS SHALL BE SELECTED AND INSTALLED TO PROVIDE A VIBRATION FREE INSTALLATION.
- 14. CLEANING DURING MECHANICAL WORK: CLEAN THE MECHANICAL ROOM AND ROOMS WORK WILL BE DONE TO MINIMIZE DISTURBANCE IN THE BUILDINGS. WORKERS ARE TO USE PATHWAYS AND FACILITIES AGREED UPON WITH THE DISTRICT DESIGNEE IN WRITING. THE AREA OUTSIDE THE BUILDING WHERE CUTTING WELDING OR STORAGE IS ALLOWED IS TO BE FENCED AT ALL TIMES. THE CONTRACTOR WILL ON A DAILY BASIS CLEAN THE GROUNDS AND THE BUILDING OF ANY DEBRIS OR GARBAGE GENERATED BY THEIR WORK.
- 15. MODIFICATIONS TO CONTROLS WILL BE PROVIDED BY EMF CONTROLS. 581 N STATE ROAD, STE 6, BRIARCLIFFE MANOR NY 10510-1556

HVAC REMOVAL NOTES:

- THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWING IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE OR RELOCATE ANY RELATED MECHANICAL DEVICES/ITEMS EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMODATE NEW WORK.
- EQUIPMENT/ITEMS SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES/ITEMS REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT. THE CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
- EQUIPMENT, PIPING, ETC. REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS. NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
- ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.



COORDINATION NOTE: 1. COORDINATION— IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL AND MECHANICAL CONTRACTORS TO COORIDNATE THEIR WORK. THE HVAC CONTRACTOR SHALL TAKE THE LEAD IN THE COORDINATION EFFORT AND PRODUCE THE COORDINATION DRAWINGS. COORDINATION DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO STARTING ANY WORK. CEILING SPACE IS VERY LIMITED AND DUCTWORK/PIPING INSTALLATION AND LOCATION IS CRITIAL. THE PURPOSE OF THESE DRAWINGS IS TO COORDINATE THE LOCATIONS OF ALL PIPING, DUCTWORK, AND ASSOCIATED ELECTRICAL EQUIPMENT. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND LOCATED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC). MECHANICAL EQUIPMENT CANNOT INFILTRATE THE ELECTRICAL EQUIPMENTS WORKING CLEARANCE AND WORKING SPACE, NOR CAN IT BE INSTALLED DIRECTLY ABOVE OR BELOW TO THE STRUCTURE, AS IDENTIFIED WITHIN THE NEC, ARTICLE 110 -"REQUIREMENTS FOR ELECTRICAL INSTALLATION". THIS COORDINATION IS REQUIRED FOR ALL PHASES OF THIS PROJECT. FAILURE TO FOLLOW THIS PROCEDURE DOES NOT RELIEVE THE CONTRACTOR FROM THE DUTIES AND WILL NOT CONSTITUTE A

REASON FOR A CHANGE ORDER.

HVAC ABBREVIATIONS AAD AUTGMATIC AIR DAMPER ACCU AIR COOLED CONDENSING UNIT AD ACCESS DOOR AHU AIR HANDLING UNIT AMP AMPERAGE BOD BACKDRAFT DAMPER BHP BRAKE HORSEPOWER BMS BUILDING MANACEMENT SYSTEM BTU BRITISH THERMAL UNIT CFM CUBIC FEET PER MINUTE CLG CBILING C CONDENSATE DB DRYBULB TEMPERATURE DDC DIRECT DIGITAL CONTROL (SYSTEM) DEG DEGREE DIA DIAMETER DN DOWN DP DEWPOINT TEMPERATURE DX DIRECT EXPANSION EA EXHAUST AIR EAT ENTERING AIR TEMPERATURE EFF EFFICIENCY EG EXHAUST GRILLE ESP EXTERNAL STATIC PRESSURE EXH EXHAUST F FAHRENHEIT FD FIRE DAMPER FF FINAL FILTER FLR FLOOR FPM FEET PER MINUTE FSTAT FREEZESTA FT FEET FT HD FEET OF WATER GAUGE PV FACE VELOOTY G GAS GAL GALLON GPM GALLONS PER MINUTE MAT MINUML BRANCH CIRCUIT AMPACITY OA OUTSIDE AIR INLAKE PO PRESSURE DROP R REMOYE RA REFUGIEND AIR TEMPERATURE RAM MAKE-UP AIR UNIT MEH 1,000 BTU/HR MCA MINIMUM BRANCH CIRCUIT AMPACITY OA OUTSIDE AIR INLAKE PO PRESSURE DROP R REMOYE RA REFUGIEND AIR TEMPERATURE REF REFORE DROP R REMOYE RA REFUGIEND AIR TEMPERATURE REF REFORERATION AIR REMOVE RA REFUGIEND AIR TEMPERATURE RES REFRIGERANT SUCTION S SATISFACTORY SATI SUPPLY AIR TEMPERATURE		
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SEN

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TYPICAL

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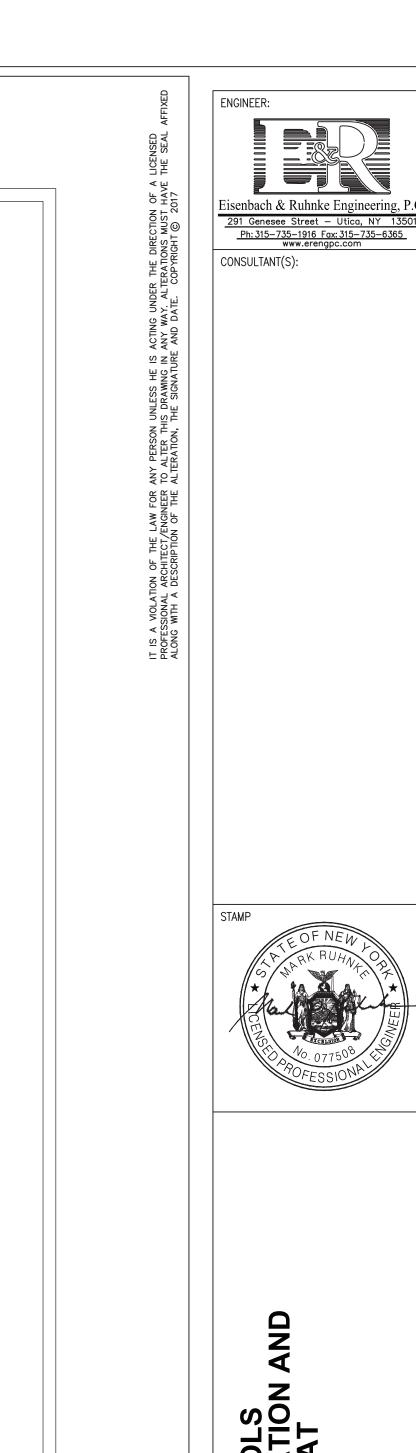
WATER GAUGE

TEMPERATURE DIFFERENCE

HEAT PUMP

SPECIFIC GRAVITY STATIC PRESSURE

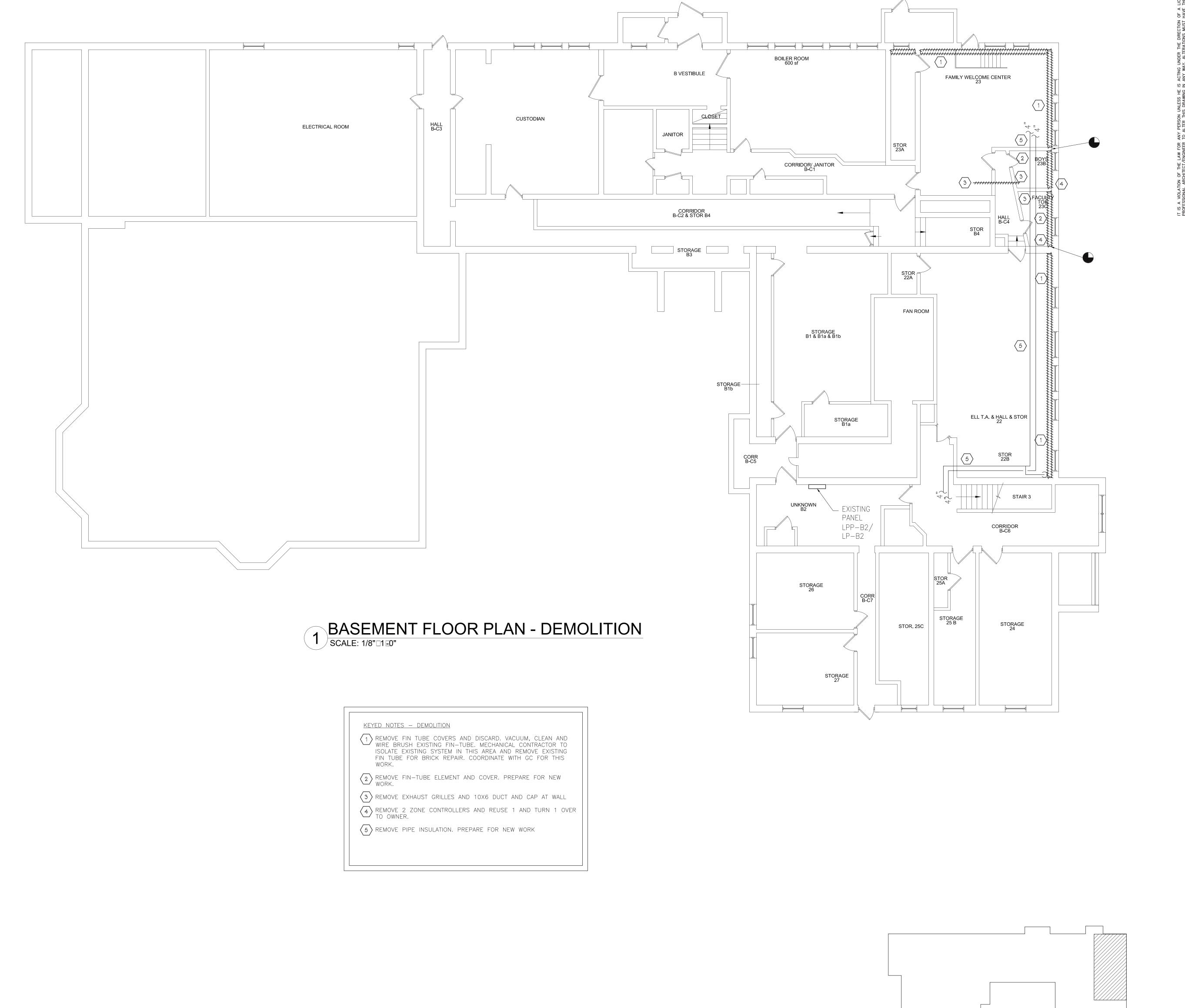
TESTING, ADJUSTING, BALANCE



OOWD 7 >m < S E&R PROJECT NO. Y170901 YPS NO.

DATE BY ISSUED FOR BID 10.20.2020 DRAWN BY JMJ CHECKED BY JIE ARCH E1 30" x 42" SHEET SIZE AS NOTED SCALE SHEET TITLE

ABBREVIATIONS AND SYMBOLS



Eisenbach & Ruhnke Engineering, P.

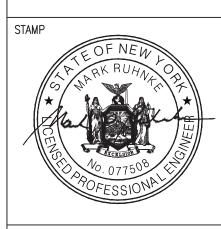
291 Genesee Street – Utica, NY 1350:

Ph: 315-735-1916 Fax: 315-735-6365

www.erengpc.com

CONSULTANT(S):

ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE



YONKERS PUBLIC SCHOOLS
BUILDING RENOVATIONS AND
SITEWORK AT
SCHOOL 9
63 FAIRVIEW STREET, YONKERS N.Y. 10703

E&R PROJECT NO. Y170901

YPS NO. 10816

REVISION DATE BY
ISSUED FOR BID 10.20.2020

DRAWN BY JMJ
CHECKED BY JIE
SHEET SIZE ARCH E1 30" x 42"

SCALE AS NOTED

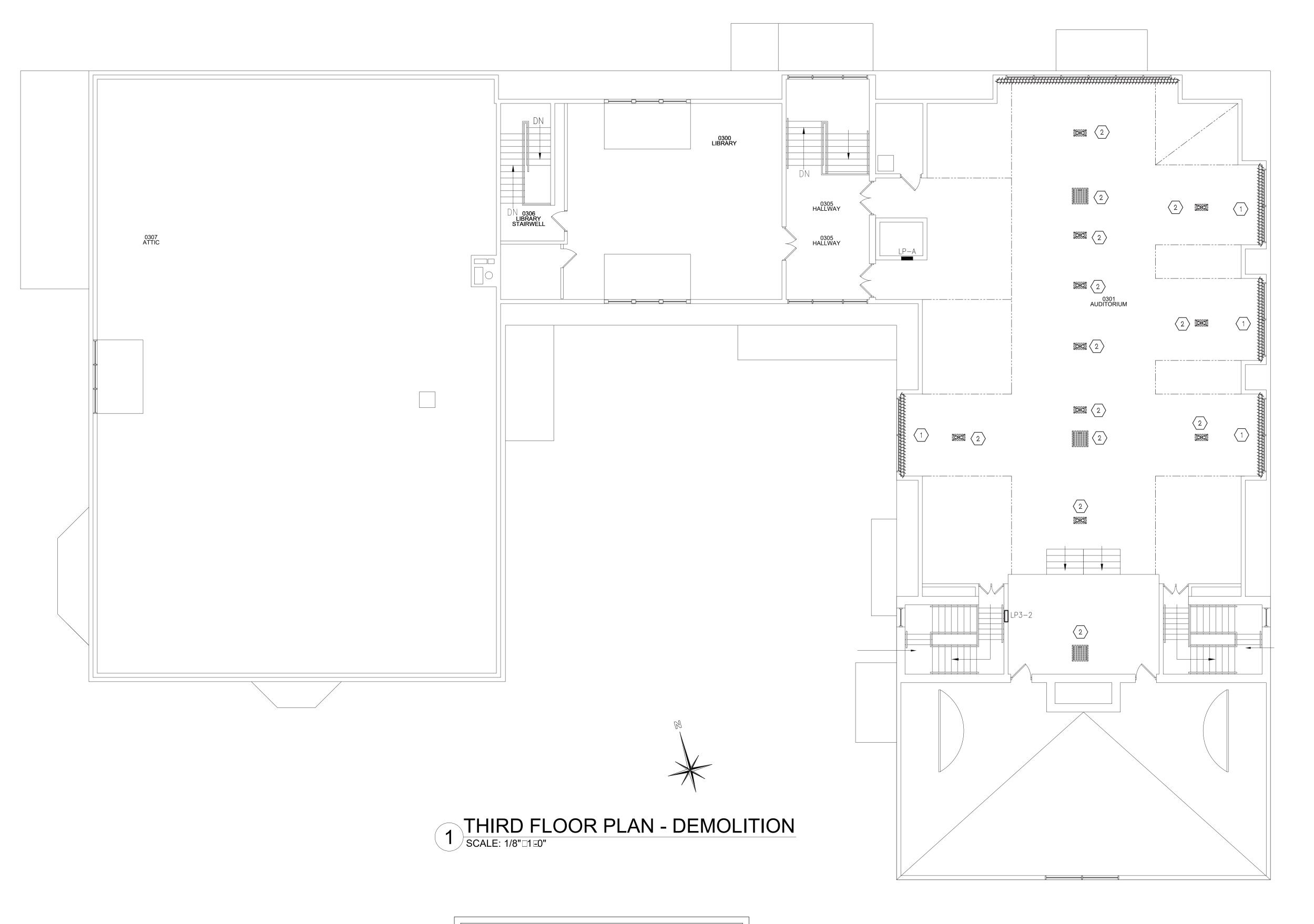
SHEET TITLE

BASEMENT
FLOOR PLAN DEMOLITION

SHEET NO

KEY-PLAN
SCALE: NONE

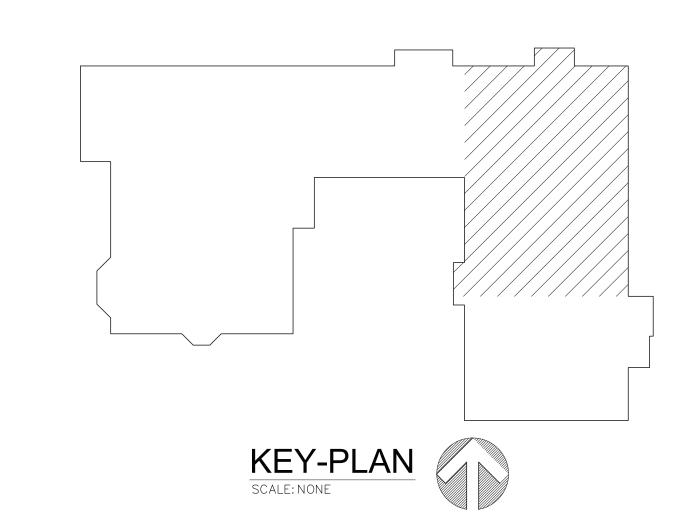
MD-100



<u>KEYED NOTES - DEMOLITION</u>

1) REMOVE FIN TUBE COVERS AND DISCARD. VACUUM AND CLEAN, WIRE BRUSH, EXISTING FIN—TUBE. PREPARE FOR NEW WORK

2 REMOVE EXISTING GRILLES AND DIFFUSERS AS SHOWN AND DISCARD. PREPARE FOR NEW WORK. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.



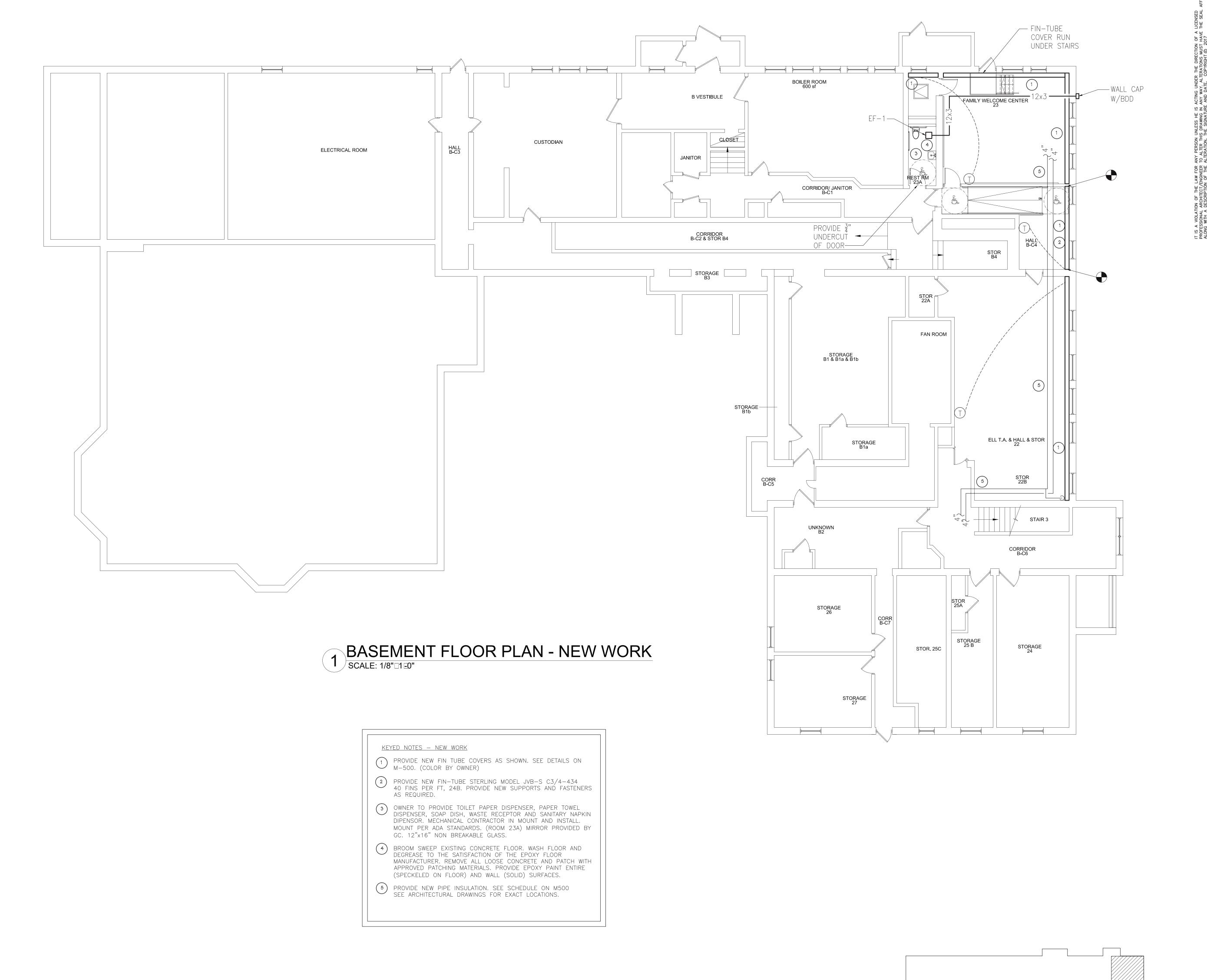
E&R PROJECT NO. Y170901 YPS NO.

DATE BY | ISSUED FOR BID | 10.20.2020 DRAWN BY CHECKED BY SHEET SIZE ARCH E1 30" x 42" AS NOTED SCALE

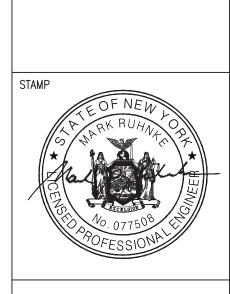
SHEET TITLE ន៍ | FLOOR PLAN -

DEMOLITION

MD-101







YONKERS PUBLIC SCHOOLS
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53 FAIRVIEW STREET, YONKERS N.Y. 10703

E&R PROJECT NO. Y170901

YPS NO.	10816			
REVISION	DATE	BY		
ISSUED FOR BID	10.20.2020			
DRAWN BY	JMJ			
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SHEET SIZE	ARCH E1 30" x 42"			
SCALE	AS NOTED			
SHEET TITLE				

SHEET TITLE

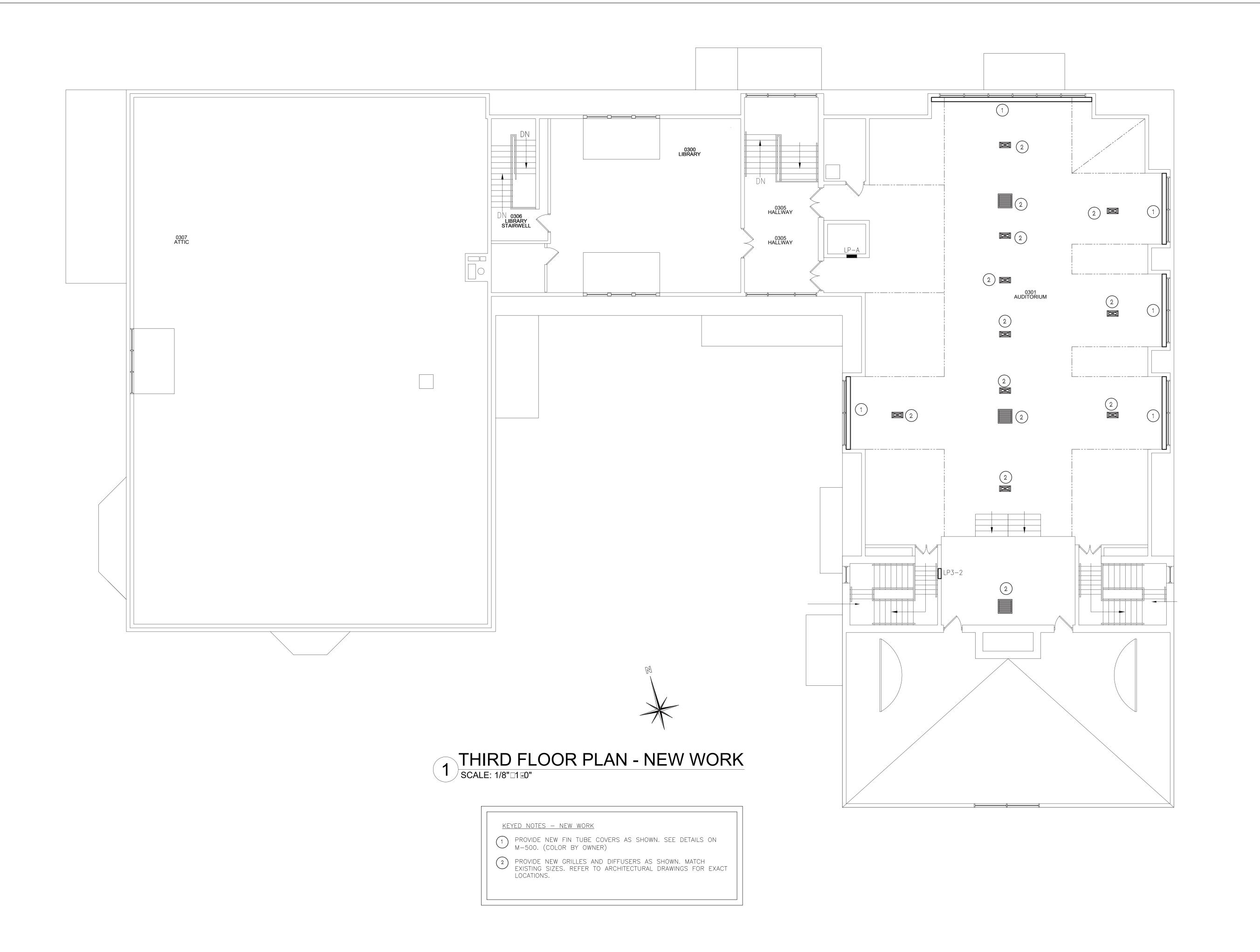
SHEET TITLE

BASEMENT
FLOOR PLAN NEW WORK

SHEET NO.

KEY-PLAN
SCALE: NONE

M-100



Eisenbach & Ruhnke Engineering, P.C

291 Genesee Street – Utica, NY 13501

Ph: 315–735–1916 Fax: 315–735–6365

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CONSULTANT(S):

STAMP

RK RUHNTAN

ROFESSIONA

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ASBESTOS ABATEMENT AT
SCHOOL 9
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REVISION DATE BY

ISSUED FOR BID 10.20.2020

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SHEET SIZE ARCH E1 30" x 42"

SCALE AS NOTED

SHEET TITLE

SHEET TITLE

THIRD
FLOOR PLAN NEW WORK

HEET NO.

M101

(d) BLANKET

(e) RIGID BOARD

(i) TWO LAYERS, 3 IN TOTAL

4 - - POLYVINYL CHLORIDE

5 - - STAINLESS STEEL

6 — — ALUMINUM

7 - - EPDM

ALL	INSULATION	TO	COMPLY	WITH	2015	NYS	ENERGY	CONSERVATION	CONSTRUCTION	CODE

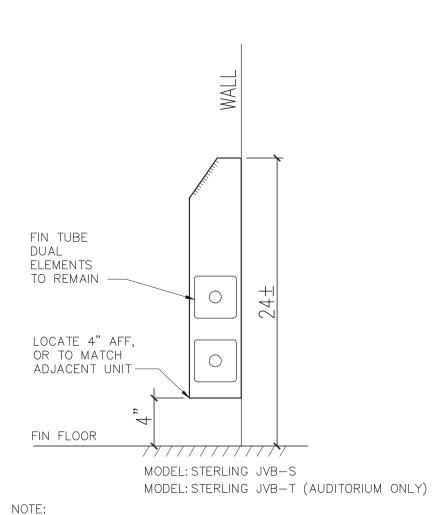
FR — — FIRE RATED

EXHAUST FAN SCHEDULE										
UNIT NO.	LOCATION /SERVICE	FAN TYPE	AIR FLOW CFM	STATIC PRESS. (IN WG.)	MAX. RPM	HP/WATTS	VOLT/PHASE	MODEL	MFG	REMARKS
EF 1	BATHROOM	CEILING	80	.25	1100	52.5	115/60/1	SP-A125	GREENHECK	(1)(2)(3)

REMARKS:

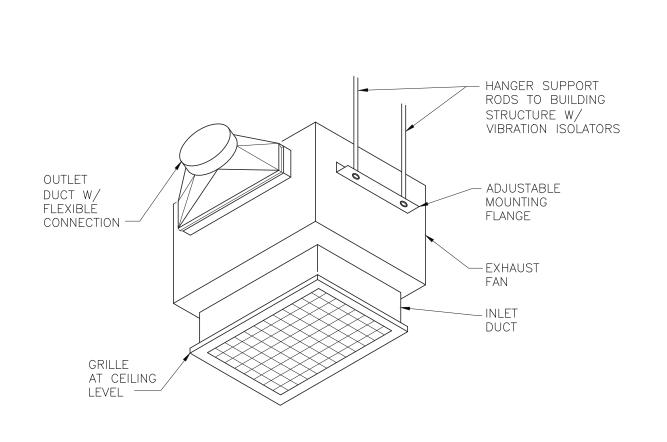
1. PROVIDE VIBRATION ISOLATORS. PROVIDE ANGLE SUPPORTS AND SUSPENSION RODS AS REQUIRED.

2. PROVIDE GREENHECK WALL CAP MODEL WC-6 (OR APPROVED EQUAL) SEAL WATERTIGHT 3. PROVIDE "VARI-SPEED" CONTROLS. MOUNT INTERNALLY

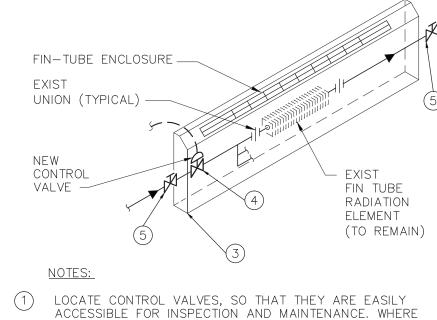


1. PROVIDE NEW MOUNTING BRACKETS AND HARDWARE AS REQUIRED. SECURELY ANCHOR TO WALL (TYPICAL) 2. MOUNT PER MANUFACTURERS RECOMMENDATIONS.

2 FIN TUBE ENCLOSURE DETAIL SCALE: NONE

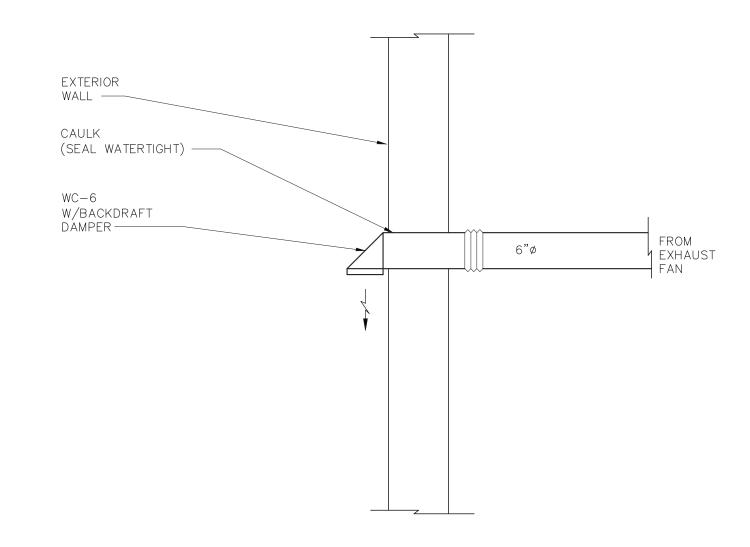




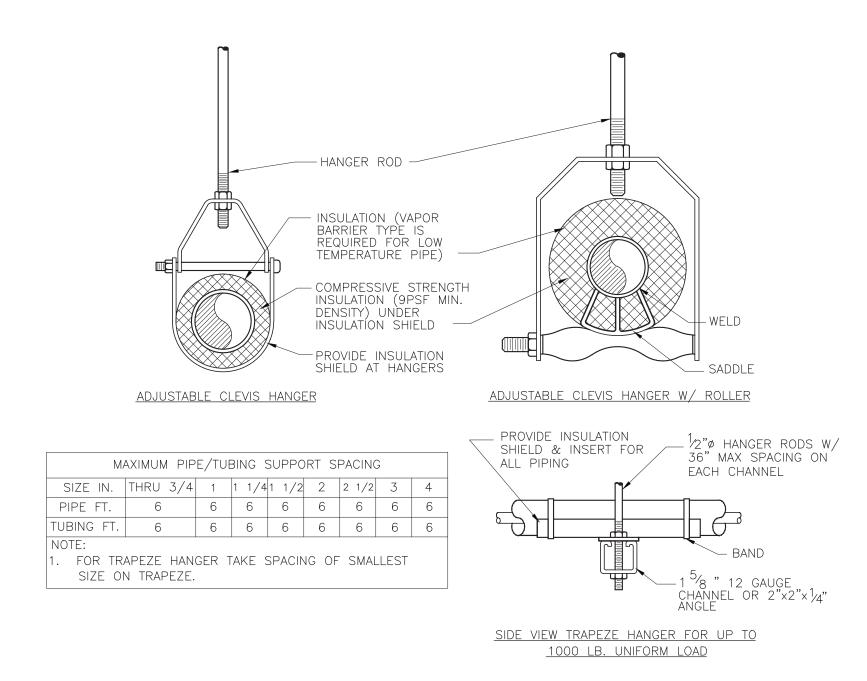


- 1 LOCATE CONTROL VALVES, SO THAT THEY ARE EASILY ACCESSIBLE FOR INSPECTION AND MAINTENANCE. WHERE INSTALLATIONS REQUIRE VALVES TO BE CONCEALED, PROVIDE ACCESS DOORS IN APPROPRIATE LOCATIONS.
- REFER TO PLANS FOR CIRCUITING OF MULTIPLE FIN TUBE SECTIONS WITH COMMON CONTROL VALVES FOR ZONING OF
- CONTRACTOR TO REMOVE FIN TUBE COVERS AS REQUIRED FOR INSTALLATION OF NEW CONTROL VALVES. (TYPICAL) 4 CONTROL VALVES SUPPLIED BY CONTROLS CONTRACTOR AND INSTALLED BY MECH CONTRACTOR
- 5) PROVIDE NEW SHUT OFF VALVES ON THE SUPPLY AND RETURN PIPING.
- 6 CONTRACTOR TO INCLUDE A UNIT PRICE FOR A ADDITIONAL 100 FEET OF EXTRA PIPE. UNIT PRICE IS FOR WORK THAT IS IN ADDITION TO THE WORK INDICATED ON THE CONSTRUCTION DOCUMENTS AND CAN BE UTILIZED AS A CREDIT OR A DEDUCT FOR WORK NOT NECESSARY.

FIN TUBE RADIATION PIPING DETAIL SCALE: NONE



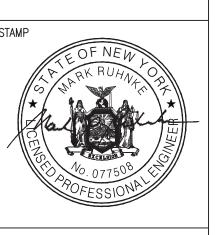
EXHAUST DUCT DETAIL



5 PIPE SUPPORT DETAIL SCALE: NONE

ENGINEER: CONSULTANT(S):

OF THE LAW FOR ANY PERSON UNLESS HE IS ACTINCHITECT/ENGINEER TO ALTER THIS DRAWING IN ANY SCRIPTION OF THE ALTERATION, THE SIGNATURE AND



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SHEET TITLE DETAILS AND SCHEDULES

M-500