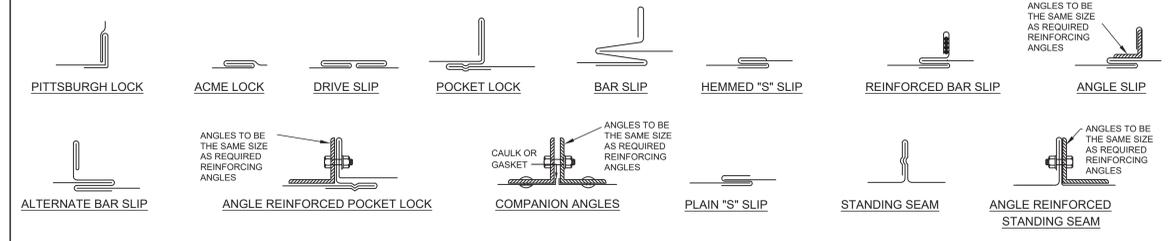


THICKNESS & REINFORCING SCHEDULE - * LOW PRESSURE DUCTWORK

* NOTE: LOW PRESSURE DUCTWORK SHALL BE DUCTWORK IN WHICH THE PRESSURE DOES NOT EXCEED 2" WATER GAUGE.

GREATEST DUCT DIMENSION	STEEL DUCTS U.S. STANDARD GAUGE	ALUMINUM DUCTS B & S GAUGE	LONGITUDINAL SEAM	TRANSVERSE JOINT SMALLEST DIMENSION	TRANSVERSE JOINT GREATEST DIMENSION	REINFORCING (ALL DUCTS 18" THRU 54" SHALL BE CROSSBROKEN)
12" OR LESS	26	24(0.020")	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR BAR SLIP	NONE REQUIRED
13" THRU 18"	24	22(0.025")	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
19" THRU 30"	24	22(0.025")	PITTSBURGH OR ACME LOCK	HEMMED "S" SLIP OR BAR SLIP OR DRIVE SLIP OR 1" POCKET LOCK	HEMMED "S" SLIP OR BAR SLIP OR 1" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
31" THRU 42"	22	20(0.032")	PITTSBURGH OR ACME LOCK	DRIVE SLIP 1/8" OR LESS BAR SLIP REINFORCED BAR SLIP OR POCKET LOCK	BAR SLIP OR REINFORCED BAR SLIP OR POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
43" THRU 54"	22	20(0.032")	PITTSBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
55" THRU 60"	20	18(0.040")	PITTSBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1"x1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
61" THRU 84"	20	18(0.040")	PITTSBURGH LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCE ALL SIDES OVER 60" WITH 1 1/2"x1 1/2"x3/16" ANGLES ON 2'-0" CENTERS. SIDES UNDER 60" NEED NO REINFORCING IF JOINTS ARE ON 4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 4'-0" CENTERS.
85" THRU 96"	18	16(0.051") (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PITTSBURGH LOCK	1 1/2" COMPANION ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	1 1/2" COMPANION ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 84" WITH 1 1/2"x1 1/2"x3/16" ANGLES ON 2'-0" CENTERS. SIDES 81" THRU 84" REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES UNDER 80" WITH 1 1/2"x1 1/2"x1/8" ANGLES IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 4'-0" CENTERS.
OVER 96"	18	16(0.051") (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PITTSBURGH LOCK	2" COMPANION ANGLE, OR 2"x2"x1/4" ANGLE SLIP, OR 2"x2"x1/4" ANGLE REINFORCED POCKET LOCK OR REINFORCED BAR SLIP	2" COMPANION ANGLE, OR 2"x2"x1/4" ANGLE SLIP, OR 2"x2"x1/4" ANGLE REINFORCED POCKET LOCK OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 96" WITH 2"x2"x1/4" ANGLES ON 2'-0" CENTERS REINFORCE ALL SIDES 85" THRU 96" WITH 1 1/2"x1 1/2"x3/16" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES 81" THRU 84" WITH 1 1/2"x1 1/2"x1/8" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES UNDER 80" WITH 1 1/2"x1 1/2"x1/8" ANGLES IF JOINTS ARE 8'-0" ON CENTER. NO REINFORCING IF JOINTS ARE 4'-0" ON CENTER.

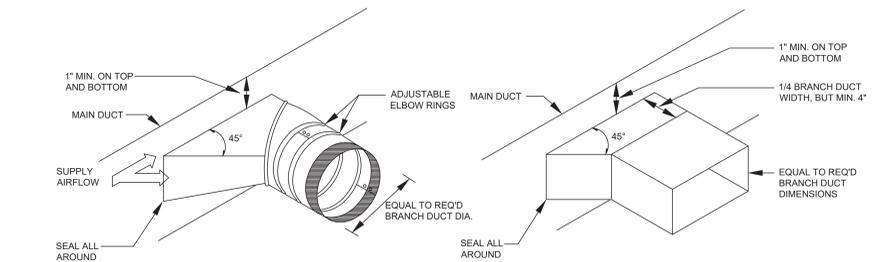


NOTE:
 1. ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
 2. WHEN W1 IS NOT EQUAL TO W2, VANE SHALL BE SINGLE VANE TYPE REGARDLESS OF W DIMENSION.
 3. ALL SINGLE VANES SHALL HAVE A 2" RADIUS, 1-1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
 4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

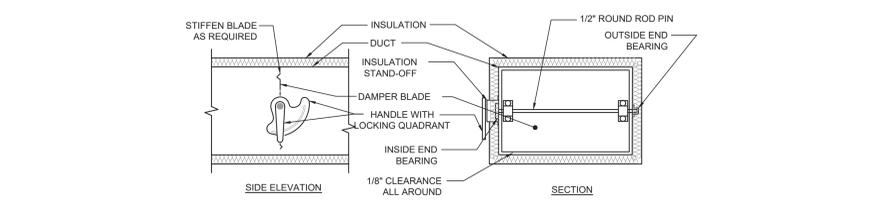
2 Ductwork Squared Elbow Detail
 M001 N.T.S.

NOTE:
 1. AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY.
 2. DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

3 Pipe Penetrations Detail
 M001 N.T.S.

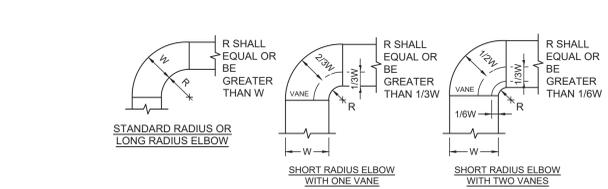


4 Typical Branch Take-Off Fitting Detail
 M001 N.T.S.



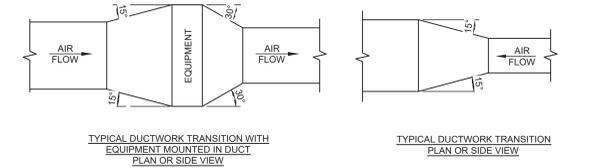
NOTE:
 1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
 2. DETAIL SHOWS SINGLE-BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

6 Ductwork Volume Damper Detail
 M001 N.T.S.



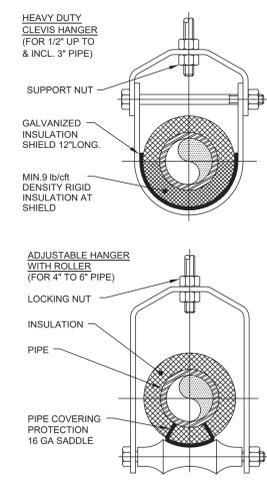
NOTE:
 1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

5 Ductwork Radius Elbow Detail
 M001 N.T.S.



NOTE:
 UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

7 Ductwork Transition Detail
 M001 N.T.S.

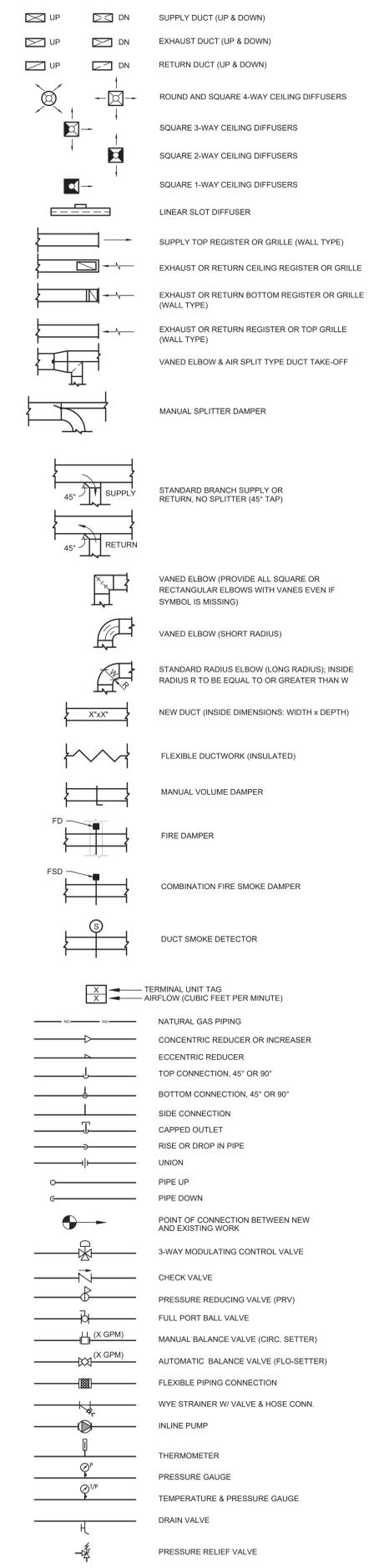


NOTES:
 1. PIPE 8" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS.
 2. FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

PIPE Ø (IN.)	MAX. SPACING BETWEEN HANGERS (FT.)			MIN. ROD SIZE (IN.)
	STEEL PIPE	COPPER PIPE	CPVC	
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

1 Pipe Hanger Support
 M001 N.T.S.

Mechanical Legend :



Mechanical Notes:

- ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 MECHANICAL CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- ALL PIPING SHALL BE PITCHED SUCH THAT AIR IN THE SYSTEM CAN BE VENTED THROUGH MANUAL AIR VENTS.
- TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS TO TWICE THE SYSTEM WORKING PRESSURE. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
- INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
- INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM. INSTALL MANUAL AIR VENT VALVE FACILITIES AT THE TOP OF ALL RISERS AND AT HIGH POINTS OF THE PIPING SYSTEM.
- INSTALL ALL HYDRONIC PIPING AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- THE ENTIRE HYDRONIC SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED WATER FLOWRATE REQUIREMENTS. A CERTIFIED BALANCING REPORT AND VERIFICATION IS TO BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
- ALL DUCTWORK IS TO BE CONSTRUCTED OF GALVANIZED SHEET STEEL (EXCEPT WHERE OTHERWISE SPECIFIED) WITH GAUGES, BRACING AND CONSTRUCTION IN ACCORDANCE WITH THE LATEST SMACNA DUCT MANUAL STANDARDS AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- PROVIDE MANUAL DAMPERS AT EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS FOR BALANCING PURPOSES WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. EACH DAMPER SHALL BE OF THE OPPOSED BLADE DAMPER TYPE INSTALLED WITH AN OPERATOR AND LOCKING DEVICE. ALL DAMPERS LOCATED ABOVE HARD OR INACCESSIBLE CEILINGS SHALL BE INSTALLED WITH REMOTE GEAR OPERATORS.
- FURNISH & INSTALL FUSIBLE LINK FIRE DAMPERS AT ALL LOCATIONS WHERE DUCT PENETRATES FIRE-RATED FLOOR OR CEILING ASSEMBLY WHETHER OR NOT SPECIFICALLY SHOWN. INSTALL DUCTWORK CASING ACCESS DOORS AND FRAMES AHEAD OF EACH FIRE DAMPER FOR INSPECTION AND MAINTENANCE. DOORS SHALL BE A MINIMUM OF 20 GA DOUBLE PANEL INSULATED TYPE.
- INSTALL TURNING VANES ON ALL RECTANGULAR TURNS. TURNING VANES SHALL BE DOUBLE THICKNESS TYPE CONSTRUCTED IN ACCORDANCE WITH SMACNA MANUAL.
- ROUND SHEET STEEL ELBOWS ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL SUPPLY AIR DIFFUSERS. SHEET STEEL PLENUM BOXES ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL RETURN AND EXHAUST AIR GRILLES. THE CONTRACTOR IS TO PAINT THE INSIDE OF THE SHEET STEEL PLENUM BOXES FLAT BLACK.
- INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- THE ENTIRE AIR DISTRIBUTION SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED AIRFLOW REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

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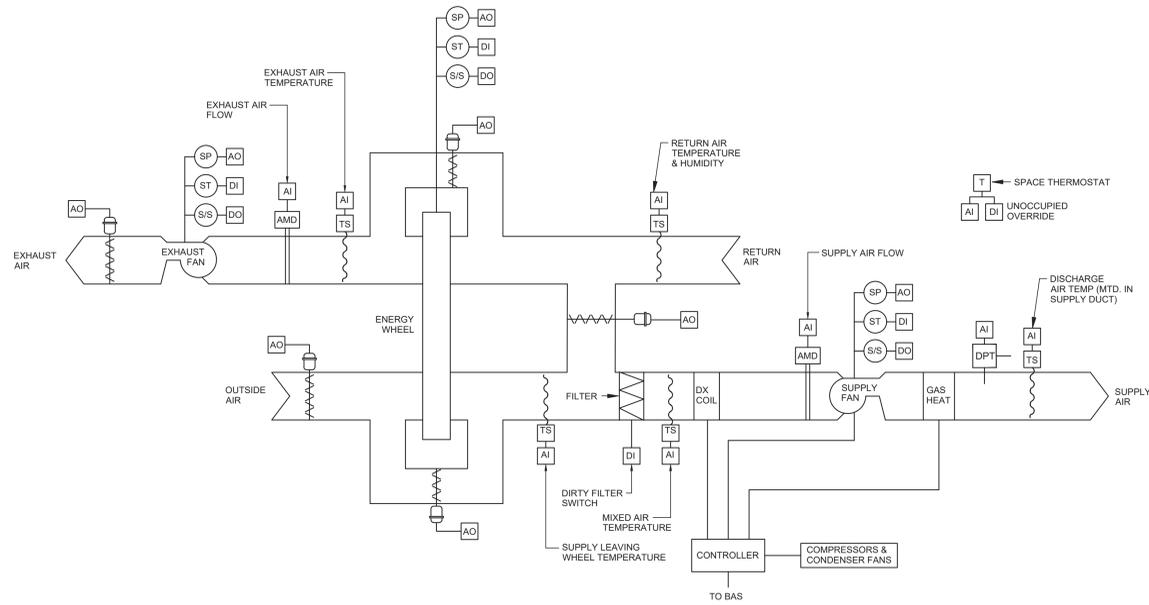


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Sheet Title
MECHANICAL NOTES, LEGEND, SCHEDULE & DETAILS

Sheet No.
IEYMS M001
 CONSTRUCTION DOCUMENTS



1 M003 Dedicated Outdoor Air System Control Schematic
N.T.S.

DDC Temperature Control Notes:

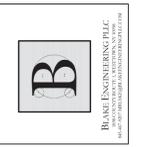
- HVAC CONTROLS SHALL BE FURNISHED & INSTALLED BY THE OWNER. ALL HARDWARE, WIRING AND PROGRAMMING TO BE PROVIDED BY OWNER. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER'S VENDOR THROUGHOUT THE PROJECT TO SUPPORT INSTALLATION, TESTING AND COMMISSIONING. MECHANICAL CONTRACTOR TO INSTALL ALL DEVICES MOUNTED IN OR ON THE PIPING AND/OR DUCTWORK INCLUDING BUT NOT LIMITED TO HYDRONIC CONTROL VALVES, TEMPERATURE SENSORS, FLOW SENSORS, ETC. MECHANICAL CONTRACTOR TO PROVIDE ALL NECESSARY PORTS/THERMOWELLS FOR SENSORS, GAUGES, ETC. COORDINATE WITH OWNER'S VENDOR FOR QUANTITY AND LOCATIONS.
- OWNER SHALL EXPAND EXISTING BUILDING AUTOMATION SYSTEM TO PROVIDE THE CONTROL SEQUENCES SPECIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS. THE SYSTEM SHALL PROVIDE CONTROL AND MONITORING OF THE EQUIPMENT INDICATED.
- OWNER SHALL PROVIDE CONTROLLERS AND COMMUNICATIONS INFRASTRUCTURE TO MATCH EXISTING CAMPUS-WIDE BUILDING AUTOMATION SYSTEM. PROVIDE SEAMLESS INTEGRATION WITH EXISTING CONTROL NETWORK AND USER INTERFACES. NETWORK GATEWAYS AND PROTOCOL INTERFACE EQUIPMENT ARE NOT ACCEPTABLE UNLESS OTHERWISE NOTED.
- OWNER SHALL PROVIDE INSTRUMENTATION, SENSORS, VALVES, DAMPERS, ACTUATORS AND WIRING AS REQUIRED TO PROVIDE SPECIFIED OPERATING SEQUENCES.
- OWNER SHALL MODIFY EXISTING GRAPHIC USER INTERFACES TO INCLUDE ALL EQUIPMENT AND SYSTEMS INCLUDED IN THIS PROJECT.
- OWNER SHALL REPLACE THE EXISTING BAS SERVER HARDWARE AND UPGRADE THE SOFTWARE TO THE LATEST VERSION OF WEB-ENABLED GRAPHICAL USER INTERFACE WITH A SEAMLESS INTEGRATION OF THE NEW AND EXISTING CONTROL POINTS.
- OWNER SHALL BE RESPONSIBLE FOR POWER THAT IS NOT SHOWN ON THE ELECTRICAL DRAWINGS. TO CONTROLS FURNISHED BY THIS CONTRACTOR. IF POWER CIRCUITS ARE SHOWN ON THE ELECTRICAL DRAWINGS, OWNER SHALL CONTINUE THE POWER RUN TO THE CONTROL DEVICE. IF POWER CIRCUITS ARE NOT SHOWN, OWNER SHALL PROVIDE BREAKERS AT DISTRIBUTION PANELS FOR POWER TO CONTROLS AND PROVIDE POWER FROM THE DISTRIBUTION PANEL TO THE CONTROL DEVICES.
- OWNER SHALL FURNISH & INSTALL ALL REQUIRED END DEVICES, POWER SUPPLY, LOW VOLTAGE TRANSFORMERS, CONTROL WIRING & CONDUITS, ETC. FOR A COMPLETE & OPERATIONAL DDC CONTROL SYSTEM.
- NEW WIRING & CONDUITS SHALL BE RUN CONCEALED ABOVE CEILING. ALL EXPOSED WIRING & CONDUITS SHALL BE RUN CONCEALED IN EMT IN UTILITY SPACES AND WIREMOLD IN FINISHED AREAS.
- OWNER TO FIELD INSTALL SENSORS, CONTROLLERS, ETC. WHICH ARE NOT FACTORY-INSTALLED BY EQUIPMENT MANUFACTURERS.
- ANY EQUIPMENT FURNISHED WITH FACTORY CONTROLS SHALL BE PROVIDED WITH BACNET MSTRP INTEGRATION CAPABILITIES AND INCLUDE ON-SITE FACTORY CONTROLS INTEGRATION START-UP IN COORDINATION WITH OWNER'S BUILDING AUTOMATION SYSTEM.

DDC Temperature Control Legend:

AI	ANALOG INPUT
AO	ANALOG OUTPUT
AQ	AQUASTAT (SPDT)
AMD	AIR FLOW MEASUREMENT DEVICE (ANALOG)
FS	FLOW SWITCH (DIGITAL)
A	CONTROL ACTUATOR CONTROL DAMPER OR VALVE
DPS	DIFFERENTIAL PRESSURE SWITCH (SPDT)
DPT	DIFFERENTIAL PRESSURE TRANSDUCER (ANALOG)
IAQ	INDOOR AIR QUALITY
MS	MAGNETIC STARTER
VFD	VARIABLE FREQUENCY DRIVE
R	CONTROL RELAY (24VAC-SPDT)
CT	CURRENT TRANSDUCER (ANALOG)
CS	CURRENT SWITCH (DIGITAL)
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
ES	END SWITCH (SPST)
RH	RELATIVE HUMIDITY SENSOR
CO	CARBON-MONOXIDE SENSOR
CO2	CARBON-DIOXIDE SENSOR
SW	WALL-MOUNTED SWITCH
TS	TEMPERATURE SENSOR (PROBE/IMMERSION)
TS	TEMPERATURE SENSOR (AVERAGING)
LLS	LOW-LIMIT TEMPERATURE SWITCH (SPDT)
SD	SMOKE DETECTOR (DUCT)
TC	THERMOSTAT SWITCH (SPDT)
XFMR	120/24VAC TRANSFORMER

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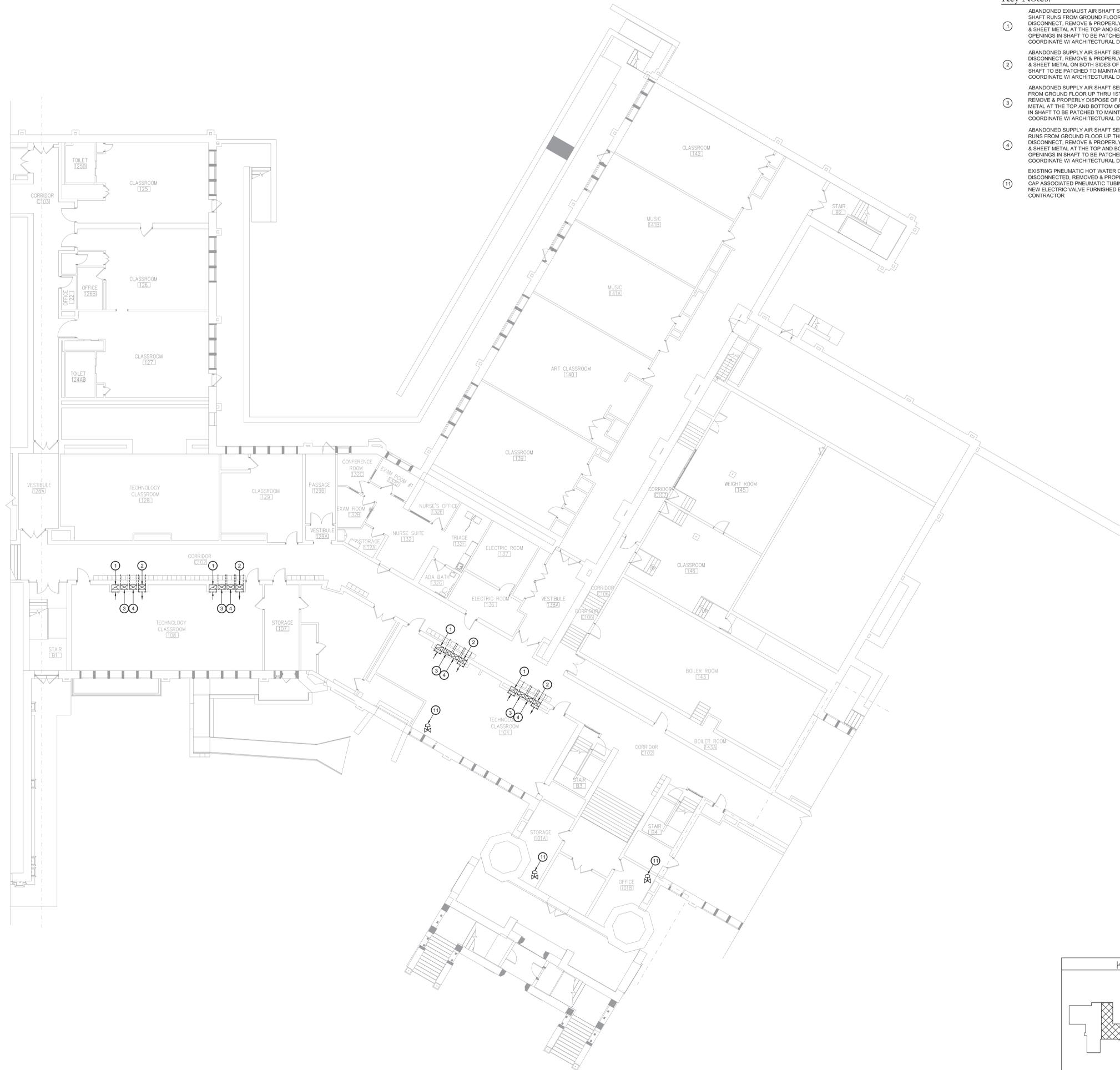


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Sheet Title
TEMPERATURE CONTROLS NOTES, LEGEND & SCHEMATICS

Sheet No.
IEYMS M003
CONSTRUCTION DOCUMENTS



Key Notes:

- ① ABANDONED EXHAUST AIR SHAFT SERVING GROUND FLOOR. SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST & 2ND FLOORS. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT. WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS. COORDINATE W/ ARCHITECTURAL DRAWINGS
- ② ABANDONED SUPPLY AIR SHAFT SERVING GROUND FLOOR. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL ON BOTH SIDES OF THE SHAFT. WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS. COORDINATE W/ ARCHITECTURAL DRAWINGS
- ③ ABANDONED SUPPLY AIR SHAFT SERVING 1ST FLOOR. SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST FLOOR. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT. WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS. COORDINATE W/ ARCHITECTURAL DRAWINGS
- ④ ABANDONED SUPPLY AIR SHAFT SERVING 2ND FLOOR. SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST & 2ND FLOORS. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT. WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS. COORDINATE W/ ARCHITECTURAL DRAWINGS
- ⑤ EXISTING PNEUMATIC HOT WATER CONTROL VALVE TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. REMOVE & CAP ASSOCIATED PNEUMATIC TUBING. VALVE TO BE REPLACED W/ NEW ELECTRIC VALVE FURNISHED BY OWNER & INSTALLED BY CONTRACTOR

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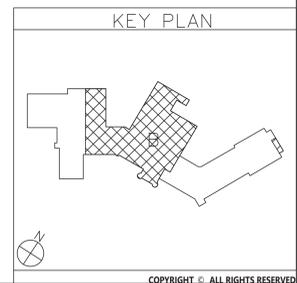
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1 Area B Ground Floor Mechanical Demolition Plan
Scale: 3/32" = 1'-0"

Sheet Title
**AREA B
GROUND
FLOOR
MECHANICAL
DEMOLITION
PLAN**

Sheet No.
**IYMS
MD102**

CONSTRUCTION DOCUMENTS



**CITY SCHOOL DISTRICT OF NEW ROCHELLE
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 2023 CAPITAL PROJECTS - PHASE 2B**

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Sheet Title
**AREA C
 GROUND
 FLOOR
 MECHANICAL
 DEMOLITION
 PLAN**

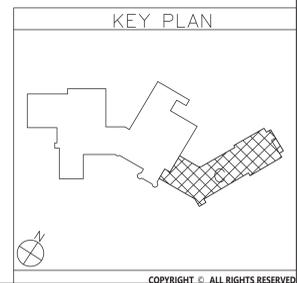
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 MD103**

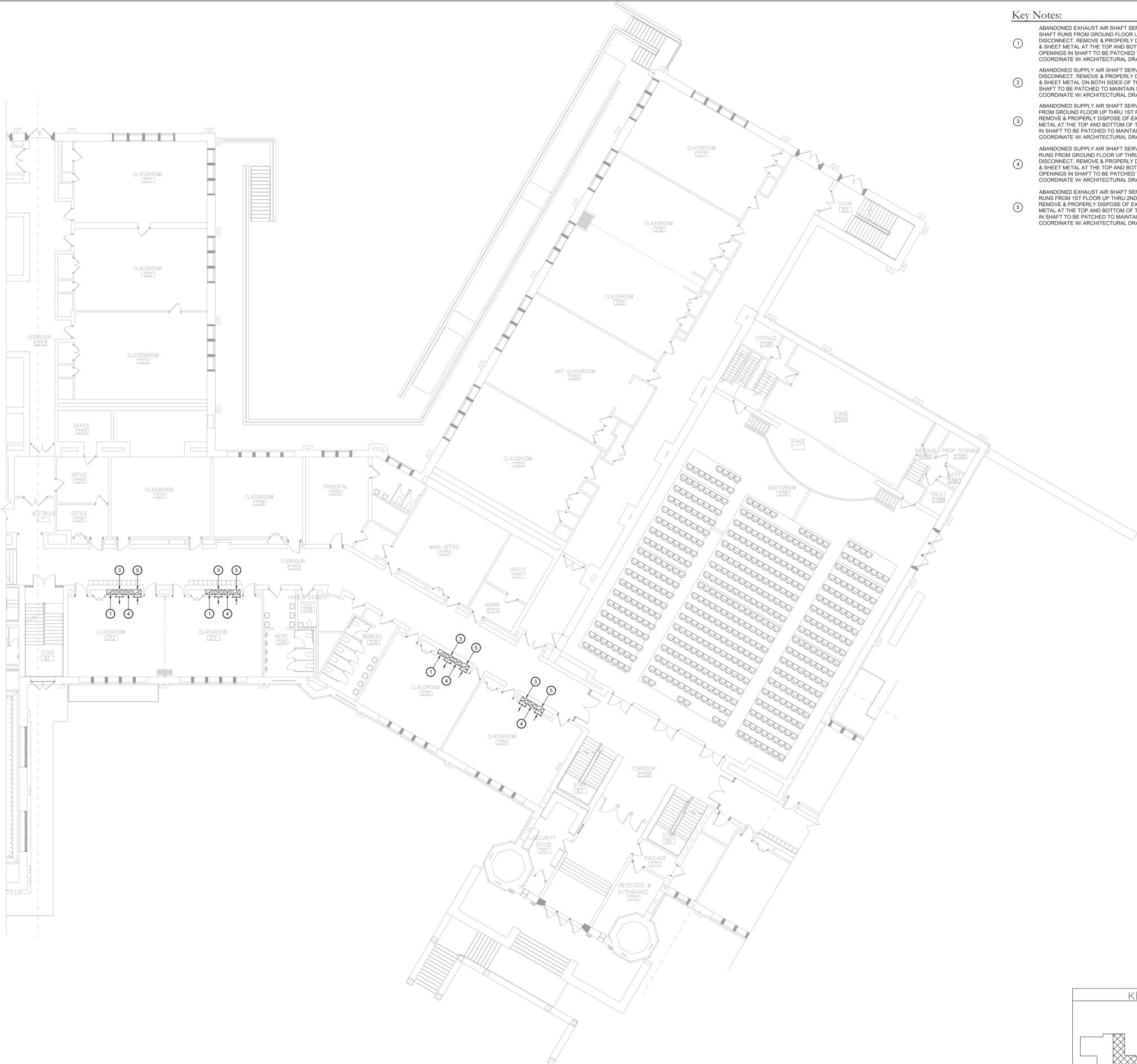
Key Notes:

- ① ABANDONED EXHAUST AIR SHAFT SERVING GROUND FLOOR. SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST & 2ND FLOORS. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT. WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS. COORDINATE W/ ARCHITECTURAL DRAWINGS
- ② ABANDONED SUPPLY AIR SHAFT SERVING GROUND FLOOR. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL ON BOTH SIDES OF THE SHAFT. WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS. COORDINATE W/ ARCHITECTURAL DRAWINGS
- ③ ABANDONED SUPPLY AIR SHAFT SERVING 1ST FLOOR. SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST FLOOR. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT. WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS. COORDINATE W/ ARCHITECTURAL DRAWINGS
- ④ ABANDONED SUPPLY AIR SHAFT SERVING 2ND FLOOR. SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST & 2ND FLOORS. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT. WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS. COORDINATE W/ ARCHITECTURAL DRAWINGS
- ⑤ EXISTING PNEUMATIC HOT WATER CONTROL VALVE TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. REMOVE & CAP ASSOCIATED PNEUMATIC TUBING. VALVE TO BE REPLACED W/ NEW ELECTRIC VALVE FURNISHED BY OWNER & INSTALLED BY CONTRACTOR



① Area C Ground Floor Mechanical Demolition Plan
 MD103 Scale: 3/32" = 1'-0"

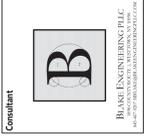




Key Notes:

- ① ABANDONED EXHAUST AIR SHAFT SERVING GROUND FLOOR; SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST & 2ND FLOORS; DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT; WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS; COORDINATE W/ ARCHITECTURAL DRAWINGS
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- ④ ABANDONED SUPPLY AIR SHAFT SERVING 2ND FLOOR; SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST & 2ND FLOORS; DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT; WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS; COORDINATE W/ ARCHITECTURAL DRAWINGS
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**CITY SCHOOL DISTRICT OF NEW ROCHELLE
ISAAC E YOUNG MIDDLE SCHOOL
2023 CAPITAL PROJECTS - PHASE 2B**

Project Title



Expiration Date: 05-31-2025

DATE	DESCRIPTION

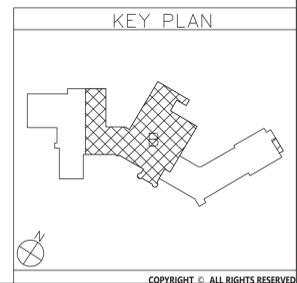
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Issued for Bid: 05/30/2025

Sheet Title
**AREA B
1ST FLOOR
MECHANICAL
DEMOLITION
PLAN**

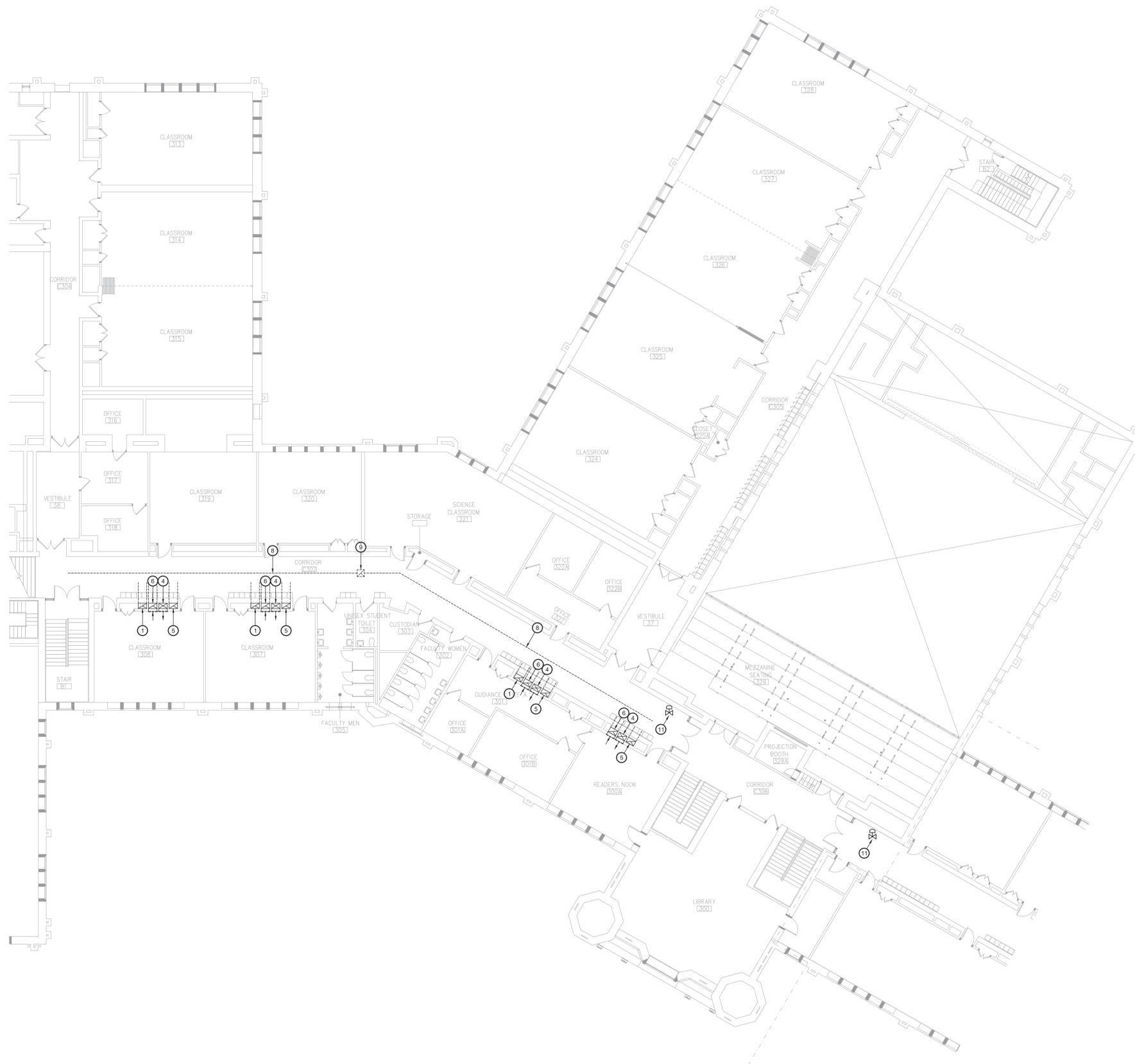
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**IYMS
MD112**

CONSTRUCTION DOCUMENTS

1 Area B 1st Floor Mechanical Demolition Plan
Scale: 3/32" = 1'-0"



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Key Notes:

- 1 ABANDONED EXHAUST AIR SHAFT SERVING GROUND FLOOR; SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST & 2ND FLOORS; DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT; WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS; COORDINATE W/ ARCHITECTURAL DRAWINGS
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- 4 ABANDONED SUPPLY AIR SHAFT SERVING 2ND FLOOR; SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST & 2ND FLOORS; DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT; WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS; COORDINATE W/ ARCHITECTURAL DRAWINGS
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- 7 EXISTING ENERGY RECOVERY VENTILATOR TO BE DISCONNECTED, REMOVED & TURNED OVER TO OWNER; REMOVE ALL ASSOCIATED DUCTWORK, HANGERS, CONTROLS, ACCESSORIES, ETC.; EXTERIOR WALL PANEL TO BE PATCHED
- 8 EXISTING EXHAUST DUCTWORK TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED INCLUDING ALL DAMPERS, ACCESSORIES, HANGERS, ETC.; THE MAJORITY OF THE DUCTWORK IS CONCEALED ABOVE HARD CEILING OR WITHIN CHASES; FIELD VERIFY EXACT ROUTING & EXTENTS OF DUCTWORK AFTER CEILING DEMOLITION & REMOVE DUCTWORK IN ENTIRETY
- 9 EXISTING DUCT DROP DN. FROM ROOF MOUNTED EXHAUST FAN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL DUCTWORK INCLUDING ALL DAMPERS, ACCESSORIES, HANGERS, ETC.
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- 11

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**CITY SCHOOL DISTRICT OF NEW ROCHELLE
ISAAC E YOUNG MIDDLE SCHOOL
2023 CAPITAL PROJECTS - PHASE 2B**

Project Title



Expiration Date: 05-31-2025

DATE	DESCRIPTION

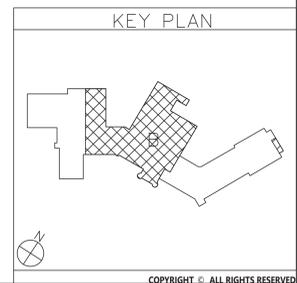
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CSArch Proj. #: 188-2301.02
Issued for Bid: 05/30/2023

Sheet Title
**AREA B
2ND FLOOR
MECHANICAL
DEMOLITION
PLAN**

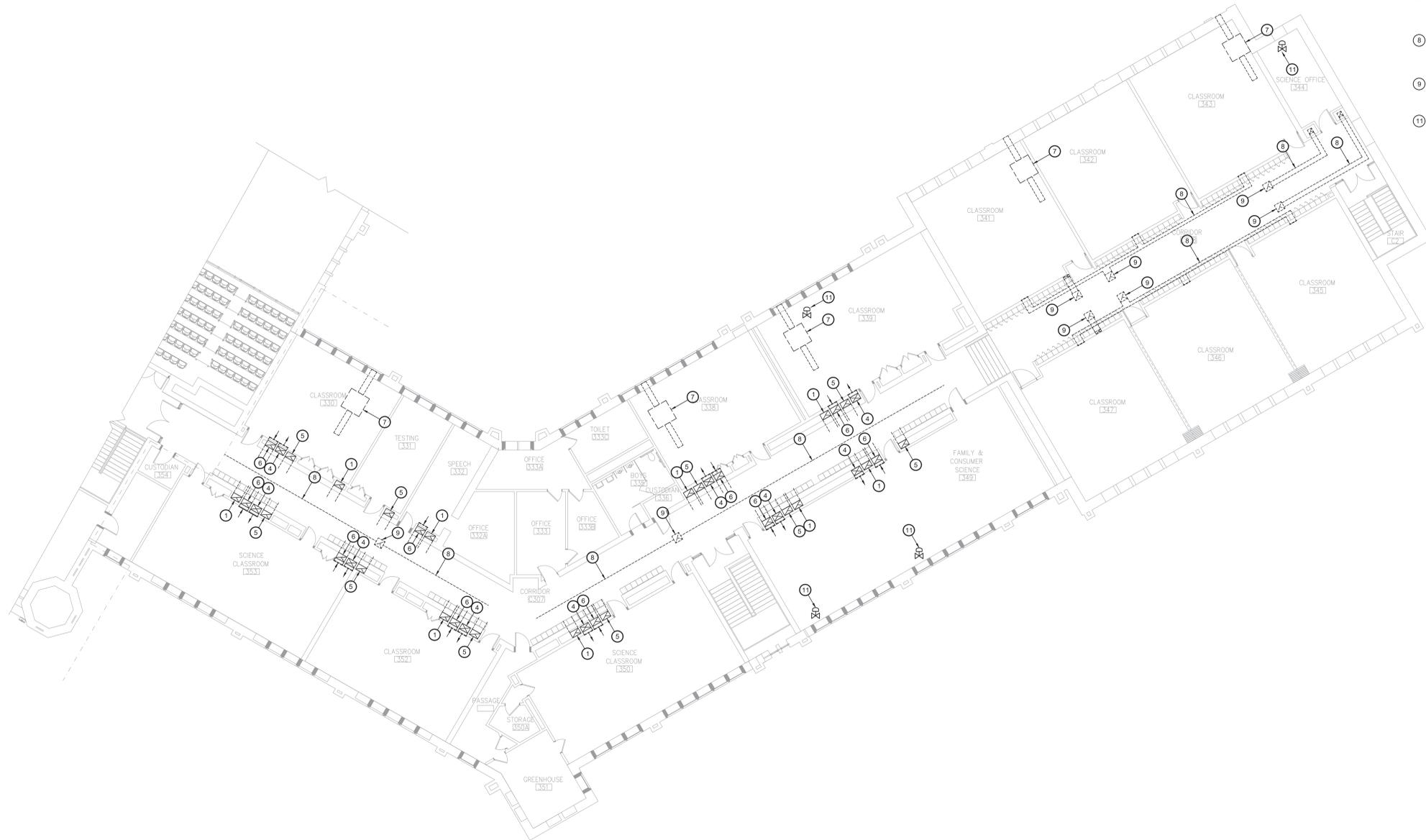
Sheet No.
**IYMS
MD122**

CONSTRUCTION DOCUMENTS

1 Area B 2nd Floor Mechanical Demolition Plan
MD122 Scale: 3/32" = 1'-0"



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Key Notes:

- 1 ABANDONED EXHAUST AIR SHAFT SERVING GROUND FLOOR. SHAFT RUNS FROM GROUND FLOOR UP THRU 1ST & 2ND FLOORS. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING GRILLE & SHEET METAL AT THE TOP AND BOTTOM OF THE SHAFT. WALL OPENINGS IN SHAFT TO BE PATCHED TO MAINTAIN SHAFT RATINGS. COORDINATE W/ ARCHITECTURAL DRAWINGS
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- 8 EXISTING EXHAUST DUCTWORK TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED INCLUDING ALL DAMPERS, ACCESSORIES, HANGERS, ETC. THE MAJORITY OF THE DUCTWORK IS CONCEALED ABOVE HARD CEILINGS OR WITHIN CHASES. FIELD VERIFY EXACT ROUTING & EXTENTS OF DUCTWORK AFTER CEILING DEMOLITION & REMOVE DUCTWORK IN ENTIRETY
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**CITY SCHOOL DISTRICT OF NEW ROCHELLE
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2023 CAPITAL PROJECTS - PHASE 2B**

Project Title



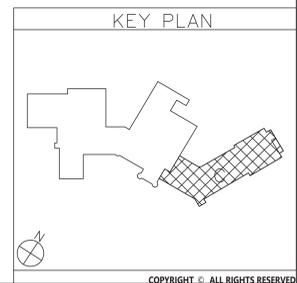
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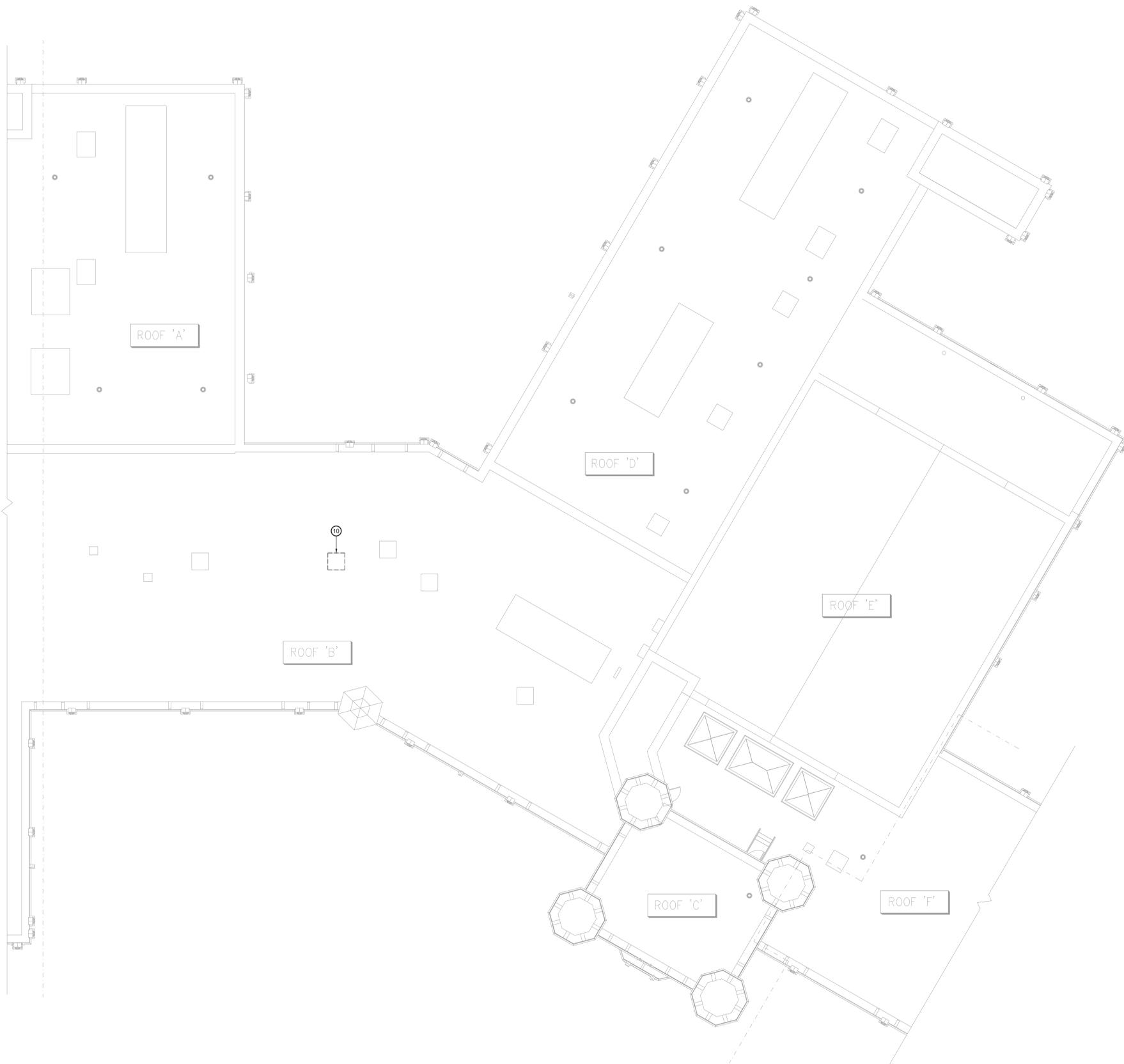
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CSArch Proj. #: 188-2301.02
Issued for Bid: 05/30/2023

Sheet Title
**AREA C
2ND FLOOR
MECHANICAL
DEMOLITION
PLAN**

Sheet No.
**IYMS
MD123**



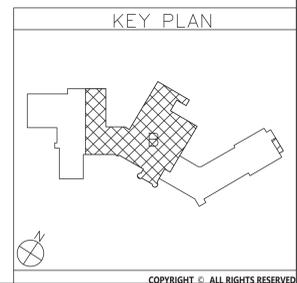
1 Area C 2nd Floor Mechanical Demolition Plan
MD123 Scale: 3/32" = 1'-0"



Key Notes:

10 EXISTING EXHAUST FAN TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY DUCTWORK, GRILLES, CONTROLS, ACCESSORIES, ETC.; ROOF CURB TO BE REMOVED & ROOF PATCHED

1 Area B Roof Mechanical Demolition Plan
 MD132 Scale: 3/32" = 1'-0"



**CITY SCHOOL DISTRICT OF NEW ROCHELLE
 ISAAC E YOUNG MIDDLE SCHOOL
 2023 CAPITAL PROJECTS - PHASE 2B**

Project Title



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Sheet Title
**AREA B
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 MECHANICAL
 DEMOLITION
 PLAN**

Sheet No.
**IEYMS
 MD132**

CONSTRUCTION DOCUMENTS



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ISAAC E YOUNG MIDDLE SCHOOL
2023 CAPITAL PROJECTS - PHASE 2B**

Project Title



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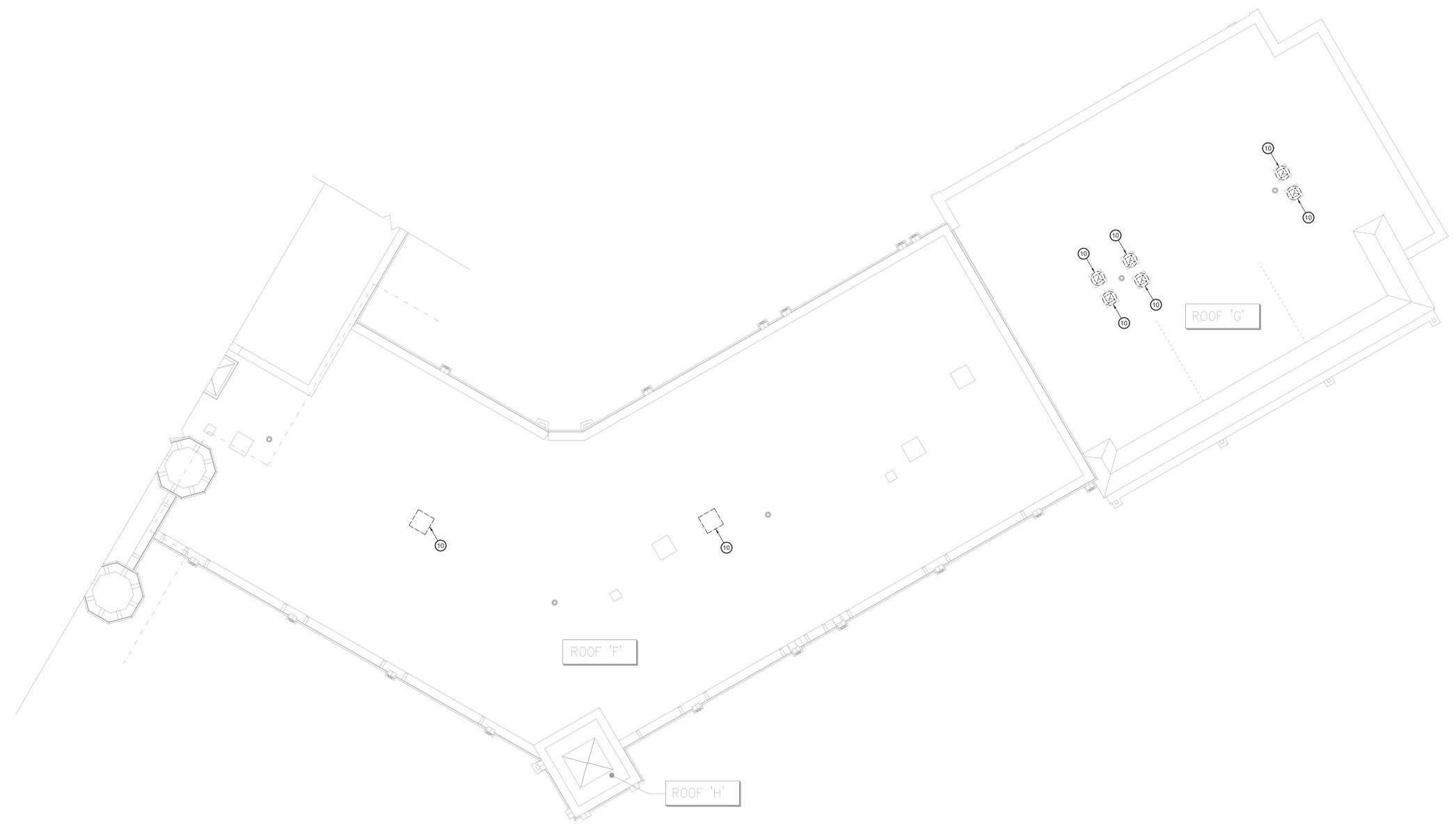
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Sheet Title
**AREA C
 ROOF
 MECHANICAL
 DEMOLITION
 PLAN**

Sheet No.
**IEYMS
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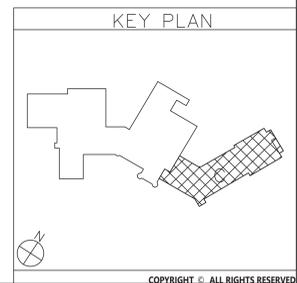
Key Notes:

- 10 EXISTING EXHAUST FAN TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY DUCTWORK, GRILLES, CONTROLS, ACCESSORIES, ETC.; ROOF CURB TO BE REMOVED & ROOF PATCHED



1 Area C Roof Mechanical Demolition Plan

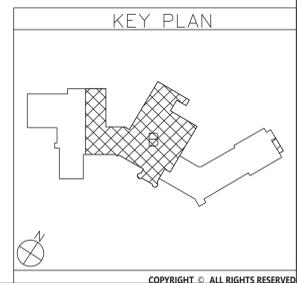
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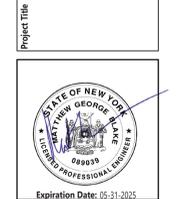


- Sheet Notes:**
- NEW DUCT RISERS TO BE INSTALLED INSIDE OF EXISTING AIR SHAFTS. COORDINATE W/ ARCHITECTURAL DRAWINGS REGARDING THE OPENING & CLOSING OF EXISTING WALLS AND CHASES.
 - DUCT PENETRATIONS OF SHAFTS SHALL INCLUDE A COMBINATION FIRE SMOKE DAMPER. PROVIDE 2 HOUR FIRE RATED ACCESS PANEL IN CHASE WALL & DUCT ACCESS DOOR TO PROVIDE FULL ACCESS TO FSD FOR INSPECTION AND MAINTENANCE. COORDINATE SIZES AND LOCATIONS WITH ARCHITECT AND ENGINEER BASED ON FIELD CONDITIONS.
 - EXISTING CEILINGS TO REMAIN IN CLASSROOMS. CONTRACTOR IS RESPONSIBLE TO REMOVE & REINSTALL CEILING TILES AND GRID AS REQUIRED TO COMPLETE THE SCOPE OF WORK.
- Key Notes:**
- NEW ELECTRIC HOT WATER CONTROL VALVE TO REPLACE EXISTING PNEUMATIC HOT WATER CONTROL VALVE FURNISHED & WIRED BY OWNER. VALVE INSTALLED IN HOT WATER PIPING BY CONTRACTOR.

1 Area B Ground Floor Mechanical Plan
 Scale: 3/32" = 1'-0"



**CITY SCHOOL DISTRICT OF NEW ROCHELLE
 ISAAC E YOUNG MIDDLE SCHOOL
 2023 CAPITAL PROJECTS - PHASE 2B**



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Sheet Title
**AREA B
 GROUND
 FLOOR
 MECHANICAL
 PLAN**

Sheet No.
**IYMS
 M102**

CONSTRUCTION DOCUMENTS



**CITY SCHOOL DISTRICT OF NEW ROCHELLE
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Sheet Title
**AREA C
 GROUND
 FLOOR
 MECHANICAL
 PLAN**

Sheet No.
**IYMS
 M103**
 CONSTRUCTION DOCUMENTS

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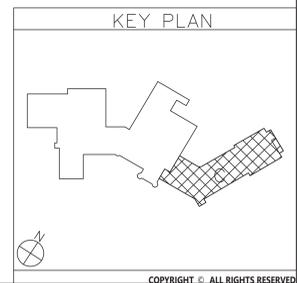
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Key Notes:

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1 Area C Ground Floor Mechanical Plan
 Scale: 3/32" = 1'-0"





**CITY SCHOOL DISTRICT OF NEW ROCHELLE
 ISAAC E YOUNG MIDDLE SCHOOL
 2023 CAPITAL PROJECTS - PHASE 2B**

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Sheet Title
**AREA C
 1ST FLOOR
 MECHANICAL
 PLAN**

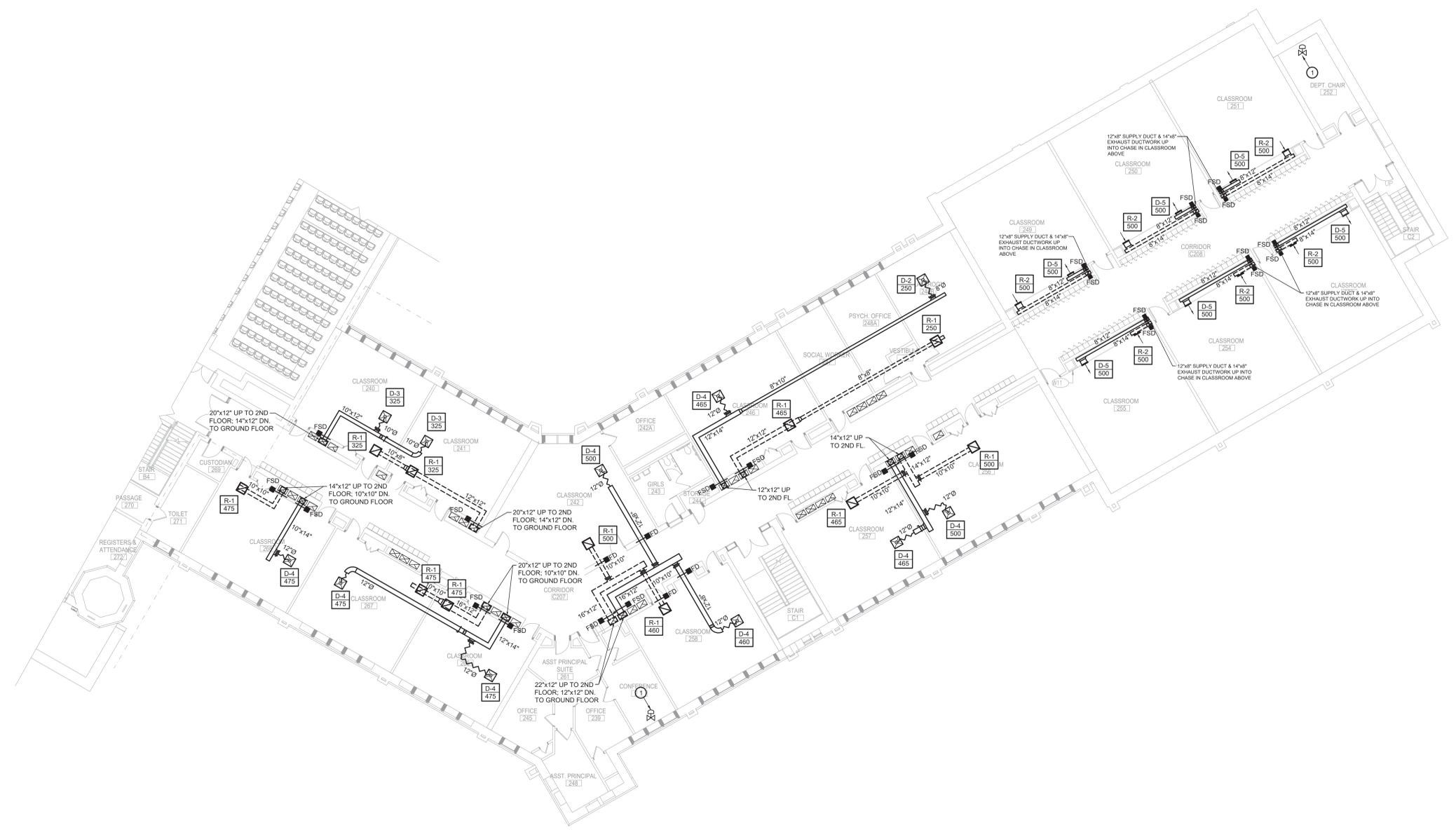
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 CONSTRUCTION DOCUMENTS

Sheet Notes:

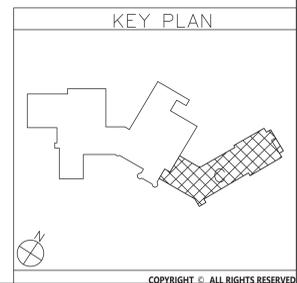
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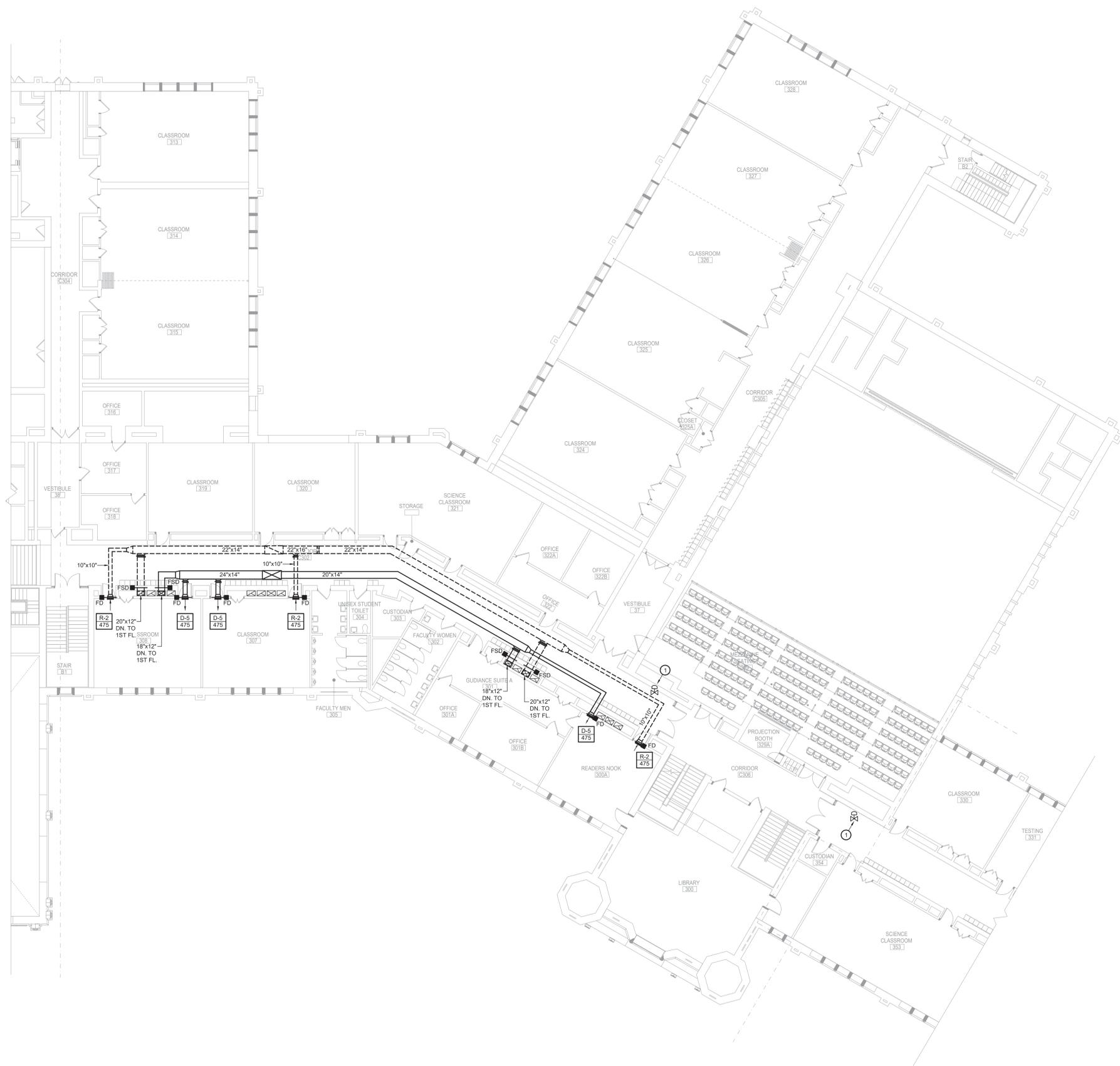
Key Notes:

1. NEW ELECTRIC HOT WATER CONTROL VALVE TO REPLACE EXISTING PNEUMATIC HOT WATER CONTROL VALVE FURNISHED & WIRED BY OWNER. VALVE INSTALLED IN HOT WATER PIPING BY CONTRACTOR.



1 Area C 1st Floor Mechanical Plan
 M113 Scale: 3/32" = 1'-0"





1 Area B 2nd Floor Mechanical Plan
 Scale: 3/32" = 1'-0"

Sheet Notes:

1. NEW DUCT RISERS TO BE INSTALLED INSIDE OF EXISTING AIR SHAFTS. COORDINATE W/ ARCHITECTURAL DRAWINGS REGARDING THE OPENING & CLOSING OF EXISTING WALLS AND CHASES.
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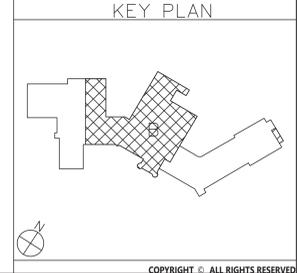


CITY SCHOOL DISTRICT OF NEW ROCHELLE
 ISAAC E YOUNG MIDDLE SCHOOL
 2023 CAPITAL PROJECTS - PHASE 2B



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 Checked By: BJK
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Sheet Title
**AREA B
 2ND FLOOR
 MECHANICAL
 PLAN**

Sheet No.
**IYMS
 M122**

CONSTRUCTION DOCUMENTS



**CITY SCHOOL DISTRICT OF NEW ROCHELLE
 ISAAC E YOUNG MIDDLE SCHOOL
 2023 CAPITAL PROJECTS - PHASE 2B**

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Sheet Title
**AREA C
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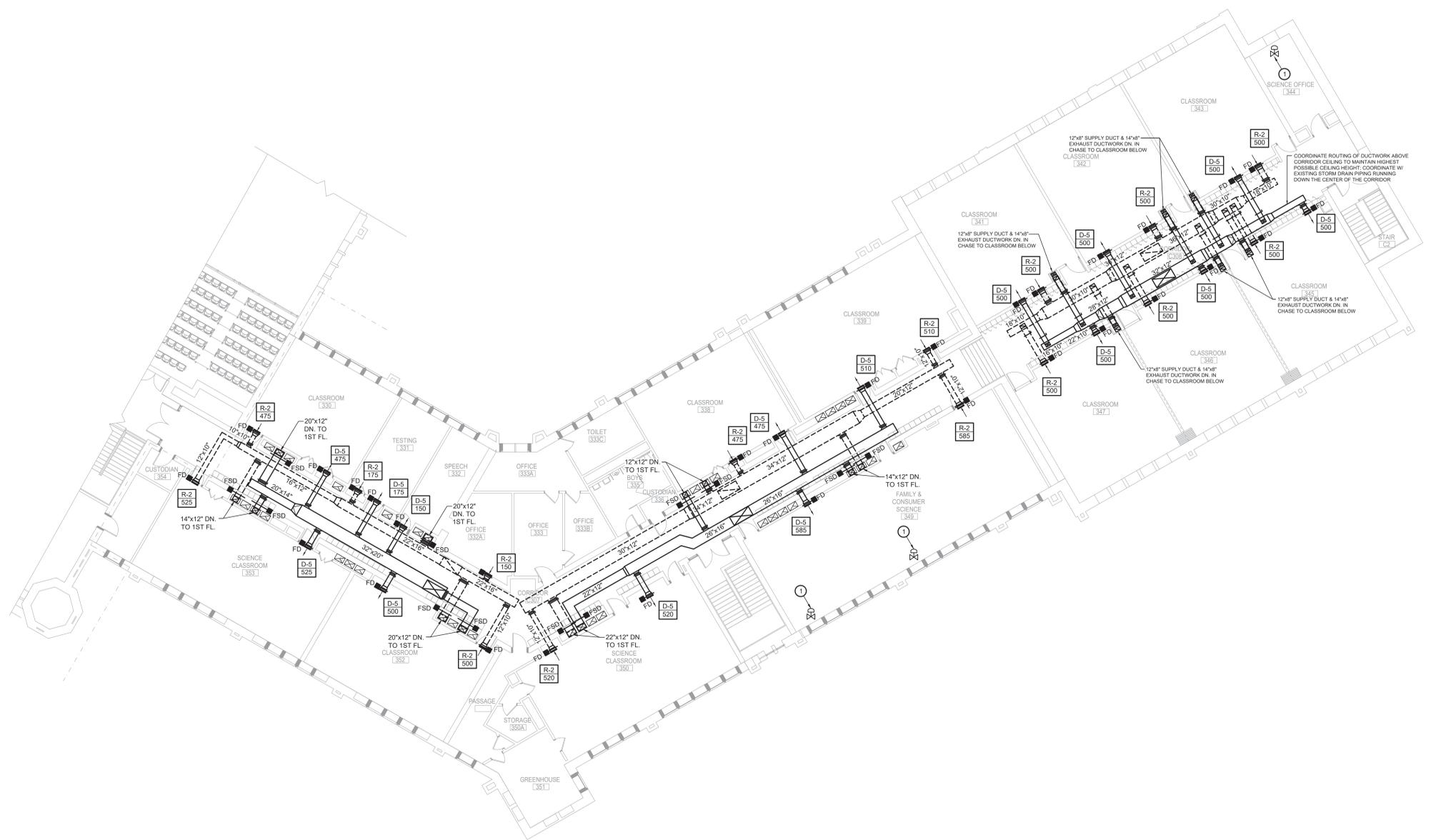
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**IYMS
 M123**
 CONSTRUCTION DOCUMENTS

Sheet Notes:

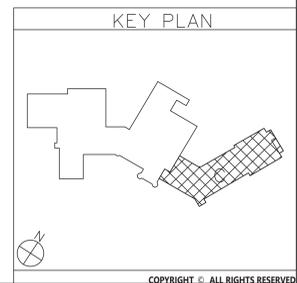
- NEW DUCT RISERS TO BE INSTALLED INSIDE OF EXISTING AIR SHAFTS. COORDINATE W/ ARCHITECTURAL DRAWINGS REGARDING THE OPENING & CLOSING OF EXISTING WALLS AND CHASES.
- DUCT PENETRATIONS OF SHAFTS SHALL INCLUDE A COMBINATION FIRE SMOKE DAMPER. PROVIDE 2 HOUR FIRE RATED ACCESS PANEL IN CHASE WALL & DUCT ACCESS DOOR TO PROVIDE FULL ACCESS TO FSD FOR INSPECTION AND MAINTENANCE. COORDINATE SIZES AND LOCATIONS WITH ARCHITECT AND ENGINEER BASED ON FIELD CONDITIONS.
- EXISTING CEILINGS TO REMAIN IN CLASSROOMS. CONTRACTOR IS RESPONSIBLE TO REMOVE & REINSTALL CEILING TILES AND GRID AS REQUIRED TO COMPLETE THE SCOPE OF WORK.

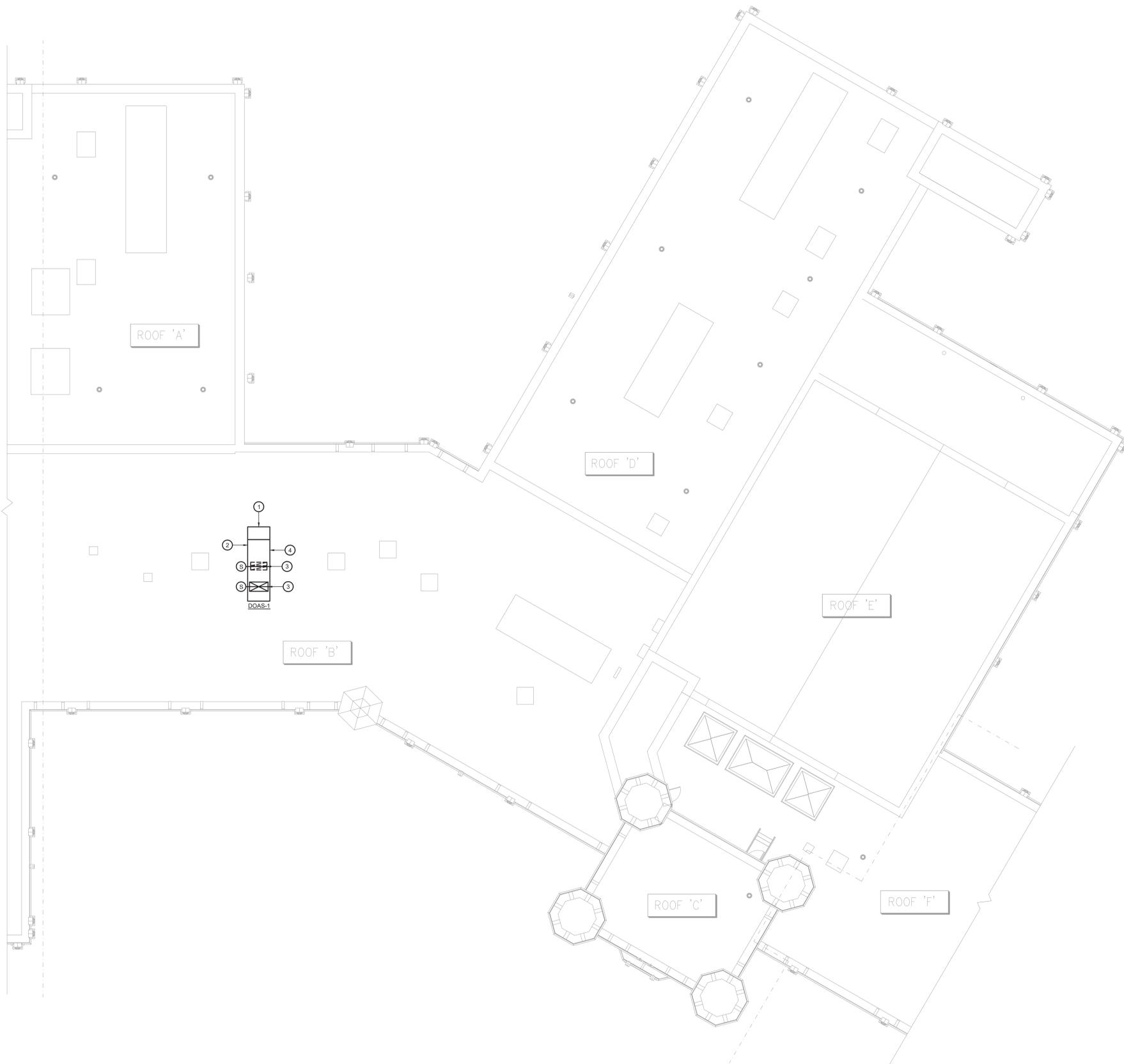
Key Notes:

- NEW ELECTRIC HOT WATER CONTROL VALVE TO REPLACE EXISTING PNEUMATIC HOT WATER CONTROL VALVE FURNISHED & WIRED BY OWNER. VALVE INSTALLED IN HOT WATER PIPING BY CONTRACTOR.



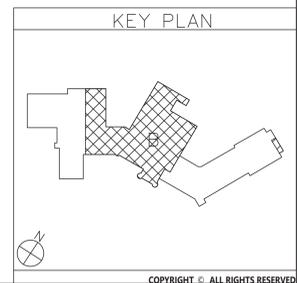
1 M123 Area C 2nd Floor Mechanical Plan
 Scale: 3/32" = 1'-0"





- Key Notes:**
- ① MAINTAIN A MIN. OF 10'-0" OF CLEARANCE FROM ANY EXHAUST DISCHARGE OR PLUMBING VENTS
 - ② PROVIDE 24" HIGH INSULATED ROOF CURB; PROVIDE W/ 2" CURB ISOLATION RAIL TYPICAL OF KINETICS NOISE CONTROL KSR 3.0 OR ACCEPTABLE EQUAL; SEE ARCHITECTURAL DRAWINGS FOR CURB DETAILS; PROVIDE IN CURB ACOUSTICAL TREATMENT TYPICAL OF KINETICS NOISE CONTROL RT-7 (STC 37) OR ACCEPTABLE EQUAL; 2" FIBERGLASS ABSORPTION PANELS & 5/8" ACOUSTICALLY DAMPENED SHEETROCK; FIELD INSTALL RT-7 PANELS AFTER CURB ASSEMBLY PER MANUFACTURER REQUIREMENTS
 - ③ FULL SIZE S.A. & R.A. PLENUM DN. FROM DOAS UNIT INTO CEILING SPACE BELOW THRU ROOF CURB; PROVIDE FLEXIBLE DUCT CONNECTORS AT UNIT OR WITHIN CURB
 - ④ PROVIDE UNIT W/ FACTORY INSTALLED SUPPLY & RETURN SMOKE DETECTORS

1 Area B Roof Mechanical Plan
 M132 Scale: 3/32" = 1'-0"



19 Front St. - Newburgh - New York 12550-7601
 845-501-3179 www.csarch.com



**CITY SCHOOL DISTRICT OF NEW ROCHELLE
 ISAAC E YOUNG MIDDLE SCHOOL
 2023 CAPITAL PROJECTS - PHASE 2B**



DATE	DESCRIPTION

Drawn By: BJK
 Checked By: BJK
 Proj. #: 66-11-00-01-0-003-018
 CSArch Proj. #: 188-2301.02
 Issued for Bid: 05/30/2025

Sheet Title
**AREA B
 ROOF
 MECHANICAL
 PLAN**

Sheet No.
**IYMS
 M132**

CONSTRUCTION DOCUMENTS

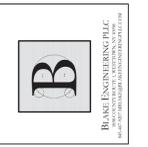
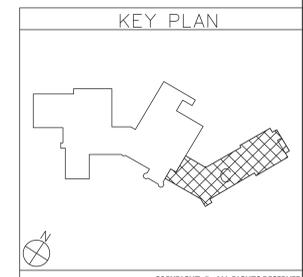
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Key Notes:

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- ④ PROVIDE UNIT W/ FACTORY INSTALLED SUPPLY & RETURN SMOKE DETECTORS

1 Area C Roof Mechanical Plan
 M133 Scale: 3/32" = 1'-0"



**CITY SCHOOL DISTRICT OF NEW ROCHELLE
 ISAAC E YOUNG MIDDLE SCHOOL
 2023 CAPITAL PROJECTS - PHASE 2B**

Project Title



Expiration Date: 05-31-2025

DATE	DESCRIPTION

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 CSArch Proj. #: 188-2301.02
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Sheet Title
**AREA C
 ROOF
 MECHANICAL
 PLAN**

Sheet No.
**IEYMS
 M133**