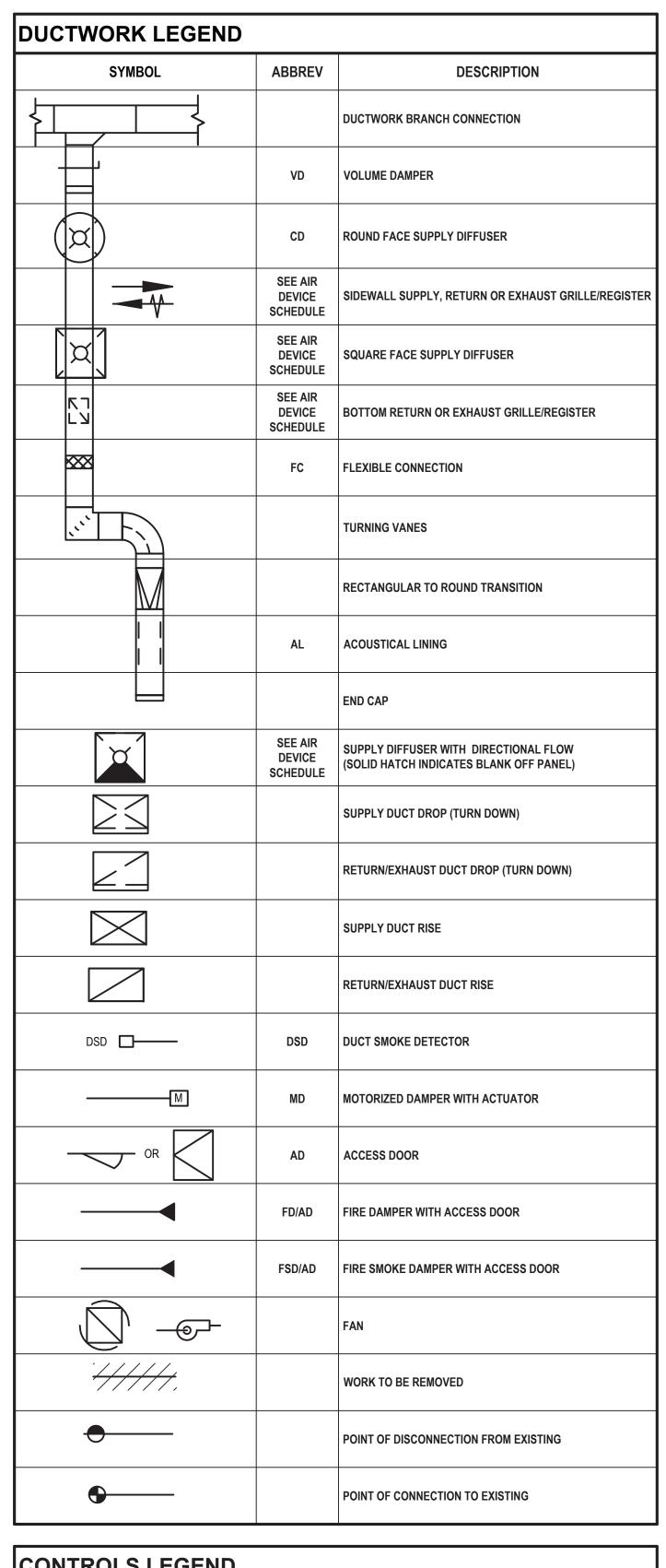
AFF ABOVE FINISHED FLOOR BCU BUILDING CONTROL UNIT BTU BRITISH THERMAL UNIT CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER HOUR CCFM CUBIC FEET PER MINUTE CLG CEILING COMM. COMMUNICATION CV CONTROL VALVE (D) DEMOLISH DB DRY BULB DCV DEMAND CONTROLLED VENTILATION DEG. F DEGREES FAHRENHEIT DIA DIAMETER DX DIRECT EXPANSION 'E' ELECTRICAL CONTRACTOR (E) EXISTING EA EACH EAT ENTERING AIR TEMPERATURE EER ENERGY EFFICIENCY RATING ESP EXTERNAL STATIC PRESSURE FAI FRESH AIR INTAKE FD FLOOR DRAIN FLA FULL LOAD AMPS FT. H20 FEET OF WATER 'G' GENERAL CONSTRUCTION CONTRACTOR GPM GALLONS PER MINUTE GPH GALLONS PER HOUR H HEIGHT 'H' HVAC CONTRACTOR HP HORSEPOWER IN. INCHES IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE) KW KILLOWATTS L LENGTH LAT LEAVING AIR TEMPERATURE LES POUNDS LCD LIQUID CRYSTAL DISPLAY LDB LEAVING WET BULB TEMPERATURE LWB LEAVING WATE TEMPERATURE LWB LEAVING WATER TEMPERATURE  N.C. NORMALLY CLOSED N.O. NORMALLY CLOSED N.O. NORMALLY CLOSED N.O. NORMALLY CLOSED N.O. NORMALLY CLOSED ON OUT OOR AIR INTAKE OD OUTER DIAMETER OD OUTER DIAM
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BTU BRITISH THERMAL UNIT  CFH CUBIC FEET PER HOUR  CFM CUBIC FEET PER MINUTE  CLG CEILING  COMM. COMMUNICATION  CV CONTROL VALVE  (D) DEMOLISH  DB DRY BULB  DCV DEMAND CONTROLLED VENTILATION  DEG. F DEGREES FAHRENHEIT  DIA DIAMETER  DX DIRECT EXPANSION  'E' ELECTRICAL CONTRACTOR  (E) EXISTING  EA EACH  EAT ENTERING AIR TEMPERATURE  EER ENERGY EFFICIENCY RATING  ESP EXTERNAL STATIC PRESSURE  FAI FRESH AIR INTAKE  FD FLOOR DRAIN  FLA FULL LOAD AMPS  FT. H20 FEET OF WATER  GPM GALLONS PER MINUTE  GPM GALLONS PER MINUTE  H HEIGHT  'H' HVAC CONTRACTOR  HP HORSEPOWER  IN. INCHES  IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE)  KW KILOWATTS  L LENGTH  LAT LEAVING AIR TEMPERATURE  LENGT HURD LEAVING WATER TURE  LENGT HURD LEAVING WATER TURE  LEWING DRY BULB TEMPERATURE  LUWI LEAVING WATER TEMPERATURE  MAX MAXIMUM  MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNFE MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY CLOSED  N.O. NORMALLY CLOSED  N.O. NORMALLY CLOSED  NOTO SCALE  OOD OUTER DIAMETER
CFH CUBIC FEET PER HOUR  CFM CUBIC FEET PER MINUTE  CLG CEILING  COMM. COMMUNICATION  CV CONTROL VALVE  (D) DEMOLISH  DB DRY BULB  DCV DEMAND CONTROLLED VENTILATION  DEG. F DEGREES FAHRENHEIT  DIA DIAMETER  DX DIRECT EXPANSION  'E' ELECTRICAL CONTRACTOR  (E) EXISTING  EA EACH  EAT ENTERING AIR TEMPERATURE  EER ENERGY EFFICIENCY RATING  ESP EXTERNAL STATIC PRESSURE  FAI FRESH AIR INTAKE  FD FLOOR DRAIN  FILA FULL LOAD AMPS  FT. H2O FEET OF WATER  'G' GENERAL CONSTRUCTION CONTRACTOR  GPM GALLONS PER MINUTE  GPH GALLONS PER HOUR  H HEIGHT  'H' HVAC CONTRACTOR  HP HORSEPOWER  IN. INCHES  IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE)  KW KILOWATTS  L LENGTH  LAT LEAVING AIR TEMPERATURE  LESS POUNDS  LCD LIQUID CRYSTAL DISPLAY  LOB LEAVING WET BULB TEMPERATURE  LWB LEAVING WET BULB TEMPERATURE  LWB LEAVING WET BULB TEMPERATURE  LWM METER  MAX MAXIMUM  MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNF MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY OLOSED  N.O. NORMALLY OLOSED  N.O. NORMALLY CLOSED  N.O. NORMALLY OLOSED  NOT O SCALE  OOL OUTER DAMINETER  OOL OUTER DAMINETER  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  REVOLUTIONS PER MINUTE
CFM CUBIC FEET PER MINUTE  CLG CEILING  COMM. COMMUNICATION  CV CONTROL VALVE  (D) DEMOLISH  DB DRY BULB  DCV DEMAND CONTROLLED VENTILATION  DEG. F DEGREES FAHRENHEIT  DIA DIAMETER  DX DIRECT EXPANSION  'E' ELECTRICAL CONTRACTOR  (E) EXISTING  EAT ENTERING AIR TEMPERATURE  EER ENERGY EFFICIENCY RATING  ESP EXTERNAL STATIC PRESSURE  FAI FRESH AIR INTAKE  FD FLOOR DRAIN  FLA FULL LOAD AMPS  FT. H20 FEET OF WATER  'G' GENERAL CONSTRUCTION CONTRACTOR  GPM GALLONS PER MINUTE  GPH GALLONS PER HOUR  H HEIGHT  'H' HYAC CONTRACTOR  HP HORSEPOWER  IN. INCHES  IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE)  KW KILOWATTS  L LENGTH  LAT LEAVING AIR TEMPERATURE  LEBS POUNDS  LCD LIQUID CRYSTAL DISPLAY  LDB LEAVING DRY BULB TEMPERATURE  LWB LEAVING WATER TEMPERATURE  NOT DOE DOE NORMALLY CLOSED  N.C. NORMALLY CLOSED  N.C. NORMALLY CLOSED  N.C. NORMALLY CLOSED  N.C. NORMALLY CLOSED  N.D. NORMALY CLOSED  N.D. N
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DCV DEMAND CONTROLLED VENTILATION  DEG. F DEGREES FAHRENHEIT  DIA DIAMETER  DX DIRECT EXPANSION  TE' ELECTRICAL CONTRACTOR  (E) EXISTING  EA EACH  EAT ENTERING AIR TEMPERATURE  EER ENERGY EFFICIENCY RATING  ESP EXTERNAL STATIC PRESSURE  FAI FRESH AIR INTAKE  FD FLOOR DRAIN  FLA FULL LOAD AMPS  FT. H20 FEET OF WATER  'G' GENERAL CONSTRUCTION CONTRACTOR  GPM GALLONS PER MINUTE  GPH GALLONS PER HOUR  H HEIGHT  'H' HVAC CONTRACTOR  HP HORSEPOWER  IN. INCHES  IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE)  KW KILOWATTS  L LENGTH  LAT LEAVING AIR TEMPERATURE  LBS POUNDS  LCD LIQUID CRYSTAL DISPLAY  LDB LEAVING WET BULB TEMPERATURE  LWB LEAVING WET BULB TEMPERATURE  LWH LEAVING WATER TEMPERATURE  LWH LEAVING WATER TEMPERATURE  MMAX MAXIMUM  MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNF MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY CLOSED  N.O. NORMALLY OPEN  NFPA NATIONAL FIRE PROTECTION ASSOCIATION  NPT NATIONAL PIPE THREAD  NTS NOT TO SCALE  OAI OUTDOOR AIR INTAKE  OD OUTER DIAMETER  OED OPEN ENDED DUCT  'P' PLUMBING CONTRACTOR  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
DEG. F DEGREES FAHRENHEIT  DIA DIAMETER  DX DIRECT EXPANSION  TE' ELECTRICAL CONTRACTOR  (E) EXISTING  EA EACH  EAT ENTERING AIR TEMPERATURE  EER ENERGY EFFICIENCY RATING  ESP EXTERNAL STATIC PRESSURE  FAI FRESH AIR INTAKE  FD FLOOR DRAIN  FLA FULL LOAD AMPS  FT. H20 FEET OF WATER  GPM GALLONS PER MINUTE  GPH GALLONS PER HOUR  H HEIGHT  TH HVAC CONTRACTOR  HP HORSEPOWER  IN. INCHES  IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE)  KW KILOWATTS  L LENGTH  LAT LEAVING AIR TEMPERATURE  LOB LEAVING WET BULB TEMPERATURE  LWB LEAVING WET BULB TEMPERATURE  LWB LEAVING WET BULB TEMPERATURE  LWB LEAVING WATER TEMPERATURE  M METER  MAX MAXIMUM  MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNF MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY OPEN  NFPA NATIONAL FIRE PROTECTION ASSOCIATION  NPT NATIONAL PIPE THREAD  NTS NOT TO SCALE  OAI OUTDOOR AIR INTAKE  OD OUTER DIAMETER  OED OPEN ENDED DUCT  TP' PLUMBING CONTRACTOR  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
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DX DIRECT EXPANSION  'E' ELECTRICAL CONTRACTOR  (E) EXISTING  EA EACH  EAT ENTERING AIR TEMPERATURE  EER ENERGY EFFICIENCY RATING  ESP EXTERNAL STATIC PRESSURE  FAI FRESH AIR INTAKE  FD FLOOR DRAIN  FLA FULL LOAD AMPS  FT. H20 FEET OF WATER  'G' GENERAL CONSTRUCTION CONTRACTOR  GPM GALLONS PER MINUTE  GPH GALLONS PER HOUR  H HEIGHT  'H' HVAC CONTRACTOR  HP HORSEPOWER  IN. INCHES  IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE)  KW KILOWATTS  L LENGTH  LAT LEAVING AIR TEMPERATURE  LES POUNDS  LCD LIQUID CRYSTAL DISPLAY  LUB LEAVING WET BULB TEMPERATURE  LWB LEAVING WET BULB TEMPERATURE  LWT LEAVING WET BULB TEMPERATURE  M METER  MAX MAXIMUM  MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNF MANUFACTURER  N.C. NORMALLY CLOSED  N.O. OUTER DIAMETER  OD OUTER DIAMETER
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EA EACH  EAT ENTERING AIR TEMPERATURE  EER ENERGY EFFICIENCY RATING  ESP EXTERNAL STATIC PRESSURE  FAI FRESH AIR INTAKE  FD FLOOR DRAIN  FLA FULL LOAD AMPS  FT. H20 FEET OF WATER  'G' GENERAL CONSTRUCTION CONTRACTOR  GPM GALLONS PER MINUTE  GPH GALLONS PER HOUR  H HEIGHT  'H' HVAC CONTRACTOR  HP HORSEPOWER  IN. INCHES  IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE)  KW KILOWATTS  L LENGTH  LAT LEAVING AIR TEMPERATURE  LBS POUNDS  LCD LIQUID CRYSTAL DISPLAY  LUBB LEAVING WET BULB TEMPERATURE  LWB LEAVING WATER TEMPERATURE  LWT LEAVING WATER TEMPERATURE  M METER  MAX MAXIMUM  MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNF MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY OPEN  NFPA NATIONAL FIRE PROTECTION ASSOCIATION  NPT NATIONAL PIPE THREAD  NTS NOT TO SCALE  OAI OUTDOOR AIR INTAKE  OD OUTER DIAMETER  OD OPEN ENDED DUCT  'P' PLUMBING CONTRACTOR  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
EAT ENTERING AIR TEMPERATURE  EER ENERGY EFFICIENCY RATING  ESP EXTERNAL STATIC PRESSURE  FAI FRESH AIR INTAKE  FD FLOOR DRAIN  FLA FULL LOAD AMPS  FT. H20 FEET OF WATER  'G' GENERAL CONSTRUCTION CONTRACTOR  GPM GALLONS PER MINUTE  GPH GALLONS PER HOUR  H HEIGHT  'H' HVAC CONTRACTOR  HP HORSEPOWER  IN. INCHES  IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE)  KW KILOWATTS  L LENGTH  LAT LEAVING AIR TEMPERATURE  LBS POUNDS  LCD LIQUID CRYSTAL DISPLAY  LUBB LEAVING WET BULB TEMPERATURE  LWB LEAVING WATER TEMPERATURE  LWB LEAVING WATER TEMPERATURE  M METER  MAX MAXIMUM  MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNF MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY OPEN  NFPA NATIONAL FIRE PROTECTION ASSOCIATION  NPT NATIONAL PIPE THREAD  NTS NOT TO SCALE  OAI OUTDOOR AIR INTAKE  OD OUTER DIAMETER  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
EER ENERGY EFFICIENCY RATING  ESP EXTERNAL STATIC PRESSURE  FAI FRESH AIR INTAKE  FD FLOOR DRAIN  FLA FULL LOAD AMPS  FT. H20 FEET OF WATER  'G' GENERAL CONSTRUCTION CONTRACTOR  GPM GALLONS PER MINUTE  GPH GALLONS PER HOUR  H HEIGHT  'H' HVAC CONTRACTOR  HP HORSEPOWER  IN. INCHES  IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE)  KW KILOWATTS  L LENGTH  LAT LEAVING AIR TEMPERATURE  LBS POUNDS  LCD LIQUID CRYSTAL DISPLAY  LDB LEAVING DRY BULB TEMPERATURE  LWB LEAVING WATER TEMPERATURE  LWT LEAVING WATER TEMPERATURE  LWT LEAVING WATER TEMPERATURE  M METER  MAX MAXIMUM  MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNF MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY OPEN  NFPA NATIONAL FIRE PROTECTION ASSOCIATION  NPT NATIONAL PIPE THREAD  NTS NOT TO SCALE  OAI OUTDOOR AIR INTAKE  OD OUTER DIAMETER  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
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FLA FULL LOAD AMPS  FT. H20 FEET OF WATER  'G' GENERAL CONSTRUCTION CONTRACTOR  GPM GALLONS PER MINUTE  GPH GALLONS PER HOUR  H HEIGHT  'H' HVAC CONTRACTOR  HP HORSEPOWER  IN. INCHES  IN. W.C. (W.G.) INCHES WATER COLUMN (WATER GAUGE)  KW KILOWATTS  L LENGTH  LAT LEAVING AIR TEMPERATURE  LBS POUNDS  LCD LIQUID CRYSTAL DISPLAY  LDB LEAVING WATER SULB TEMPERATURE  LWB LEAVING WATER TEMPERATURE  LWH LEAVING WATER TEMPERATURE  M METER  MAX MAXIMUM  MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNF MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY OPEN  NFPA NATIONAL FIRE PROTECTION ASSOCIATION  NPT NATIONAL PIPE THREAD  NTS NOT TO SCALE  OAI OUTDOOR AIR INTAKE  OD OUTER DIAMETER  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
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LAT LEAVING AIR TEMPERATURE  LBS POUNDS  LCD LIQUID CRYSTAL DISPLAY  LDB LEAVING DRY BULB TEMPERATURE  LWB LEAVING WET BULB TEMPERATURE  LWT LEAVING WATER TEMPERATURE  M METER  MAX MAXIMUM  MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNF MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY OPEN  NFPA NATIONAL FIRE PROTECTION ASSOCIATION  NPT NATIONAL PIPE THREAD  NTS NOT TO SCALE  OAI OUTDOOR AIR INTAKE  OD OPEN ENDED DUCT  'P' PLUMBING CONTRACTOR  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
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MBH 1,000 BTU PER HOUR  MCA MINIMUM CIRCUIT AMPACITY  MIN MINIMUM  MNF MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY OPEN  NFPA NATIONAL FIRE PROTECTION ASSOCIATION  NPT NATIONAL PIPE THREAD  NTS NOT TO SCALE  OAI OUTDOOR AIR INTAKE  OD OUTER DIAMETER  OED OPEN ENDED DUCT  'P' PLUMBING CONTRACTOR  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
MIN MINIMUM CIRCUIT AMPACITY  MANUFACTURER  N.C. NORMALLY CLOSED  N.O. NORMALLY OPEN  NATIONAL FIRE PROTECTION ASSOCIATION NPT NATIONAL FIRE PROTECTION ASSOC
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OD OUTER DIAMETER OED OPEN ENDED DUCT 'P' PLUMBING CONTRACTOR PD PRESSURE DROP PSIG LBS / SQUARE INCH (GAUGE PRESSURE) RD ROOF DRAIN RPM REVOLUTIONS PER MINUTE
OED OPEN ENDED DUCT  'P' PLUMBING CONTRACTOR  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
'P' PLUMBING CONTRACTOR  PD PRESSURE DROP  PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
PD PRESSURE DROP PSIG LBS / SQUARE INCH (GAUGE PRESSURE) RD ROOF DRAIN RPM REVOLUTIONS PER MINUTE
PSIG LBS / SQUARE INCH (GAUGE PRESSURE)  RD ROOF DRAIN  RPM REVOLUTIONS PER MINUTE
RD ROOF DRAIN RPM REVOLUTIONS PER MINUTE
RD ROOF DRAIN RPM REVOLUTIONS PER MINUTE
RPM REVOLUTIONS PER MINUTE
RPZ REDUCED PRESSURE ZONE
CAT CURRLY AIR TEMPER (TURE
SAT SUPPLY AIR TEMPERATURE
SEER SEASONAL ENERGY EFFICIENCY RATING
TEMP TEMPERATURE
TG TRANSFER GRILLE
TYP TYPICAL
VFD VARIABLE FREQUENCY DRIVE
W WIDTH
WB WET BULB
115 1151 5025
WMS WIRE MESH SCREEN



CONTROLS LEGEND		
SYMBOL	ABBREV	DESCRIPTION
©		CARBON MONOXIDE SENSOR
(T)		THERMOSTAT
S		DIGITAL TEMPERATURE SENSOR
Н		HUMIDITY SENSOR
©2		CARBON DIOXIDE SENSOR
P		PRESSURE SENSOR

PIPING LEGEND		
SYMBOL	ABBREV	DESCRIPTION
		NEW WORK
C— O—		PIPING DOWN/ PIPING UP
<b>6</b> -C		BALL VALVE WITH HOSE END CONNECTION
<u> </u>	тн	THERMOMETER
<b>→</b>   <b>⊢</b>	U	UNION
	FPC	FLEXIBLE PIPE CONNECTION
		DIRECTION OF FLOW
—————————————————————————————————————	PSR	PRESSURE SAFETY AND RELIEF VALVE
_\$	PRV	PRESSURE REDUCING VALVE
<u> </u>	BV	BALL VALVE
<b>──©─ ♦</b>	ВА	BALANCING VALVE
<b>□</b>	BFV	BUTTERFLY VALVE
<b></b>		TEMPERATURE SENSOR WITH THERMOWELL
<b>→</b>	GA	GATE VALVE
₩————————————————————————————————————	GB	GLOBE VALVE
<u></u>	AV	AUTOMATIC AIR VENT
——————————————————————————————————————	cv	2-WAY ELECTRONIC CONTROL VALVE
<b>────</b>	cv	3-WAY ELECTRONIC CONTROL VALVE
— <del>—</del> ——————————————————————————————————	cv	2-WAY PNEUMATIC CONTROL VALVE
<b>────────</b>	cv	3-WAY PNEUMATIC CONTROL VALVE
	STR	STRAINER WITH BLOW OFF VALVE WITH HOSE END CONNECTION
	FD	FLOOR DRAIN
S		AIR SEPARATOR
——⊗ <sup>F&amp;T</sup>		STEAM TRAPS (INDICATE TYPE)
<b>→ → →</b>	СН	CHECK VALVE
<u> </u>	PG	PRESSURE GAUGE WITH GAUGE COCK
	RED	REDUCER
ı <u> </u>	СО	CLEANOUT END CAP
		PIPE GUIDE
<del></del>		PIPE ANCHOR
		CAPPED PIPE
		PUMP
·/////		WORK TO BE REMOVED
<del>-</del>		POINT OF DISCONNECTION FROM EXISTING
•		POINT OF CONNECTION TO EXISTING
4/4	TDV	TRIPLE DUTY VALVE

#### GENERAL NOTES

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- 2. THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF BIDS.
- 3. PERFORM ALL WORK IN ACCORDANCE WITH THE PLUMBING CODE, FIRE CODE, MECHANICAL CODE, ENERGY CONSERVATION CONSTRUCTION CODE, AND FUEL GAS CODE OF NEW YORK STATE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- 4. COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL
- 5. FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, DUCTWORK, CONDUIT, ETC. PROVIDE FIRE DAMPERS AND ACCESS DOORS IN ALL OPENINGS IN FIRE RATED FLOORS, PARTITIONS, AND WALLS FOR DUCTWORK AS PER THE MECHANICAL CODE OF NEW YORK STATE. (SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED CONSTRUCTION.)
- 6. DO NOT SCALE DRAWINGS. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS, PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S REQUIREMENTS TO PROVIDE PROPER CLEARANCE FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTOR'S FABRICATED ITEMS SHALL ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY
- 7. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- 8. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
- 9. PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.
- 10. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.
- 11. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.
- 12. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING AND DUCT TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
- 13. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION
- 14. COORDINATE INSTALLATION OF SUPPLY AND RETURN GRILLES WITH INSTALLATION OF FINISHED CEILINGS.
- 15. COMPLETE ALL PRESSURE TESTS BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING INSULATION IS
- 16. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PERFORM ALL TESTING, ADJUSTING, AND BALANCING IN ACCORDANCE WITH THE SPECIFICATIONS.
- 17. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
- 18. PROVIDE CONCRETE PADS A MINIMUM OF 6 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
- 19. INTERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS WITH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE PROVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS. SEE SPECIFICATION SECTION 230719 FOR ADDITIONAL REQUIREMENTS.
- 20. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS, AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIR STREAM. PROVIDE TRAP AT CONNECTION, WATER SEAL DEPTH 1 INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT/ENGINEER.
- 21. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

### WORK IN EXISTING AREAS

- 1. EXISTING CONDITIONS, INCLUDING EQUIPMENT, DUCT AND PIPE SIZES AND LOCATIONS, INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- 2. CUT AND ROUGH PATCH EXISTING CONSTRUCTION AS REQUIRED FOR THE PERFORMANCE OF THE WORK. PERFORM ALL CUTTING AND PATCHING WORK IN A MANNER SUCH THAT ANY EXISTING WARRANTEES/GUARANTEES ARE NOT VOIDED. USE QUALIFIED PERSONNEL IN PERFORMANCE OF THE WORK.

### CONTRACT 'H' SCOPE NOTES

- 1. FURNISH AND INSTALL ALL NECESSARY CONTROL WIRING, CONDUIT, AND ACCESSORIES AS REQUIRED TO PROVIDE FULLY FUNCTIONING SYSTEMS AND SEQUENCES OF OPERATION.
- 2. REMOVE CHASE ENCLOSURE COVER WHEN PERFORMING WORK IN ANY CHASE, AND REINSTALL THE CHASE ENCLOSURE COVER WHEN WORK IS COMPLETE.
- 3. PERFORM ALL CUTTING AND PATCHING AS REQUIRED IN THE EXECUTION OF THE WORK.

### LEGENDS/ABBREVIATIONS NOTES

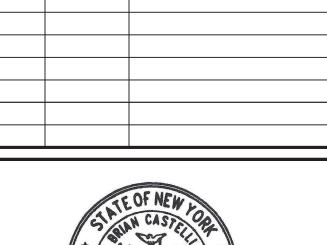
1. ABBREVIATIONS AND SYMBOLS ON THIS SHEET DO NOT DEFINE THE SCOPE OF WORK.



architects + engineers

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PROJECT No.: WPSD 220	6	DATE: JULY	2023	SCALE:	AS SHOWN

## White Plains City School District

WHITE PLAINS HIGH SCHOOL UPGRADES AND TURF FIELD



550 North Street White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

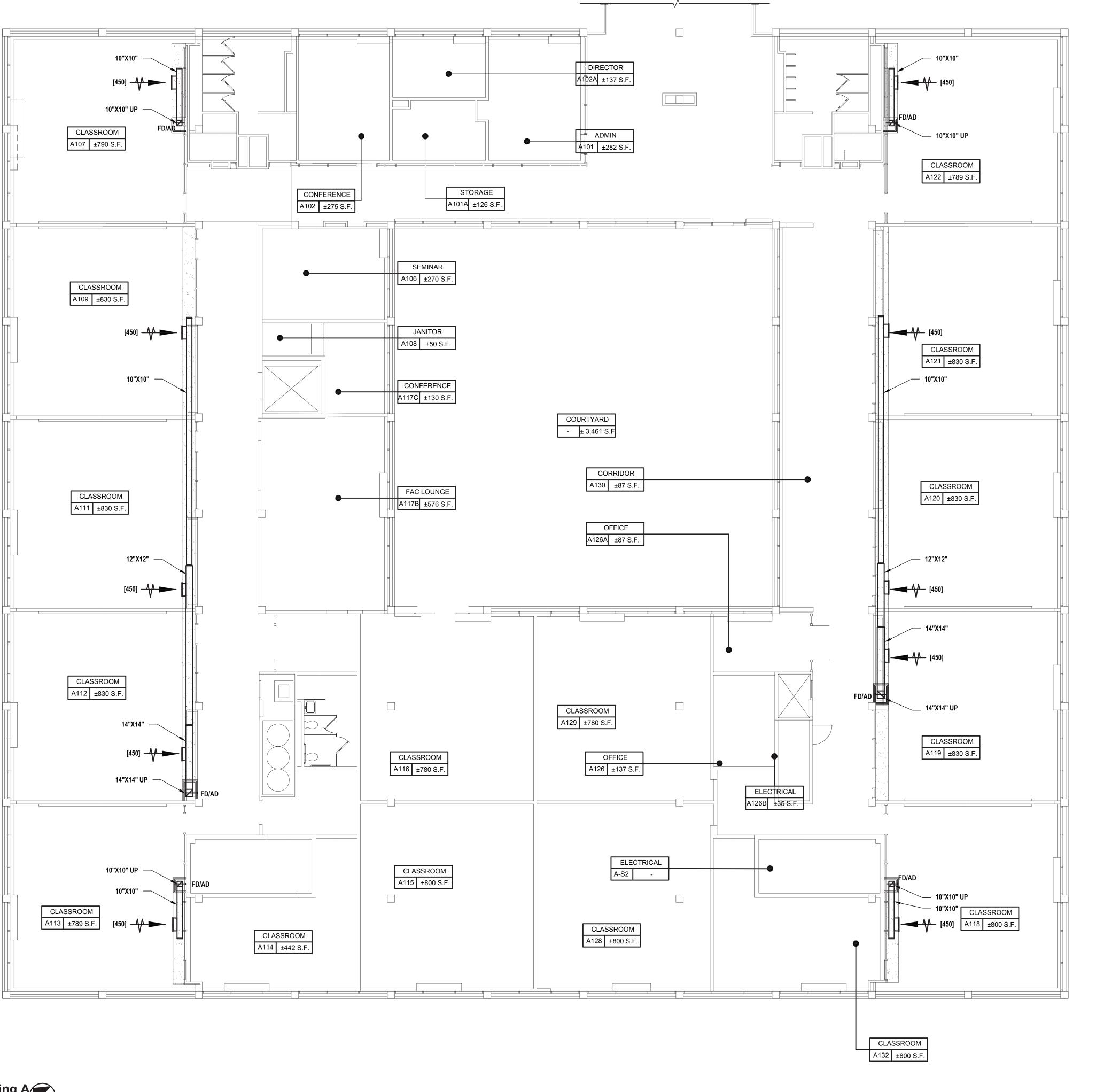
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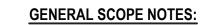
SHEET TITLE

HVAC GENERAL NOTES AND LEGENDS

WING No.

M000.00





- 1. FURNISH AND INSTALL NEW EXHAUST DUCTWORK WITHIN ARCHITECTURAL SOFFITS IN AREAS SHOWN ON PLANS.
- 2. PRESCRIBED EXHAUST AIR VOLUMES CORRESPOND TO EXISTING OUTDOOR AIRFLOW RATES SUPPLIED BY UNIT VENTILATORS IN EACH CLASSROOM.
- 3. FURNISH AND INSTALL VOLUMES DAMPERS AS SHOWN ON DETAILS ON SHEET M500.00 FOR SYSTEM BALANCING.
- 4. FURNISH AND INSTALL SIDEWALL GRILLES, 18"X8", NAILOR MODEL 61FH OR APPROVED EQUAL.
- 5. FURNISH AND INSTALL ACCESS PANEL IN CHASE WALL TO PROVIDE ACCESS FOR ALL FIRE DAMPER ACCESS DOORS.
- 6. EXHAUST IS BEING ADDED TO AREAS WITHOUT EXISTING EXHAUST SYSTEMS. SUPPLY AND EXHAUST AIRFLOWS IN ALL OTHER AREAS SHALL REMAIN UNCHANGED AND IN ACCORDANCE WITH EXISTING AS-BUILT CONDITIONS.



engineers

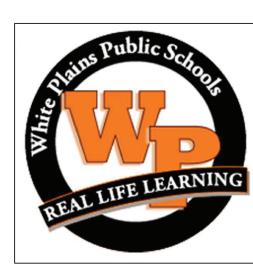
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## **White Plains City School District**

WHITE PLAINS HIGH SCHOOL **UPGRADES AND TURF FIELD** 



550 North Street White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

**CONTRACT H HEATING VENTILATION AND AIR** CONDITIONING

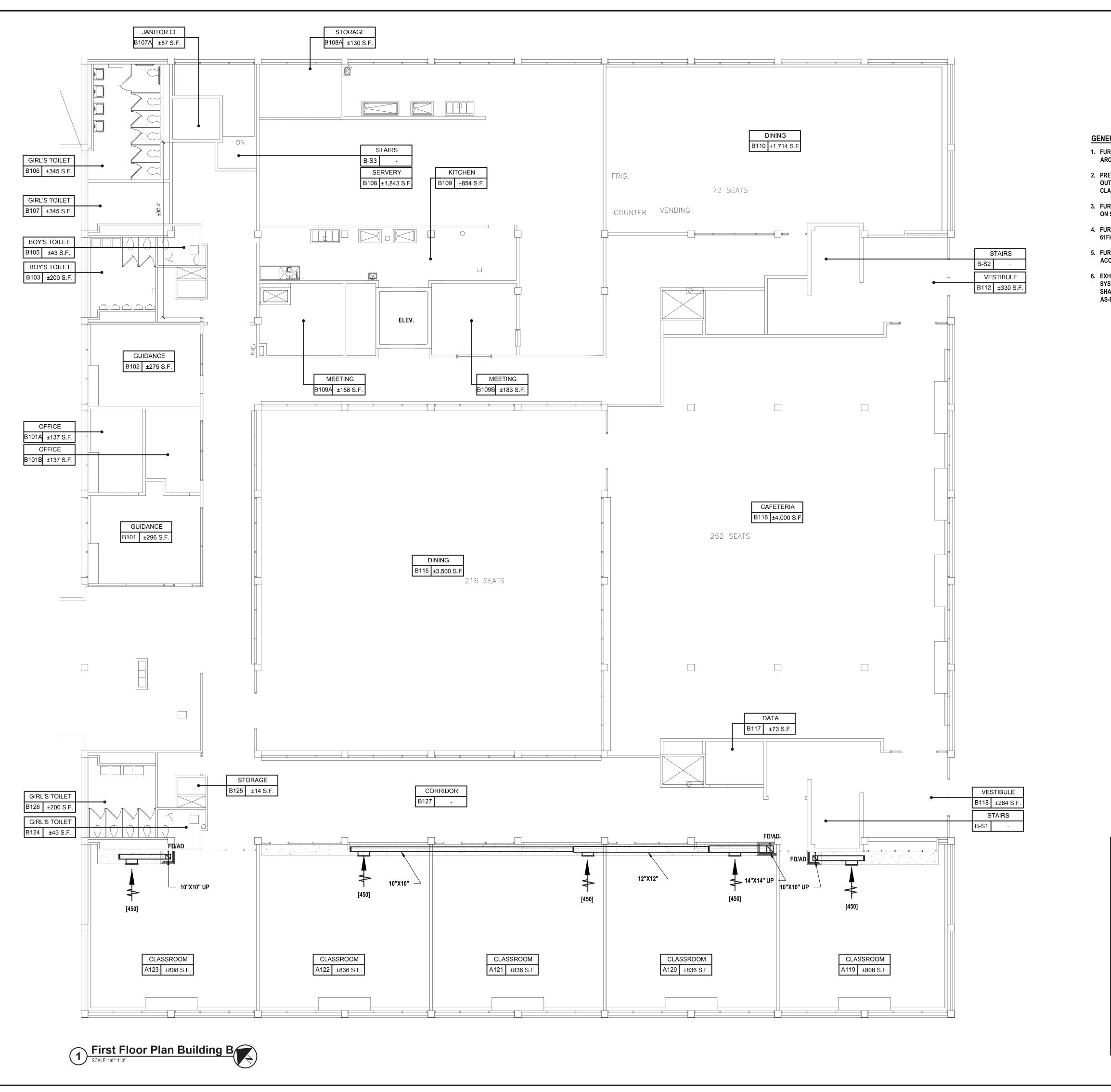
**FINAL BID SET** 

Key Plan
SCALE: N.T.S.

**MECHANICAL** FIRST FLOOR **PLAN BUILDING A** 

M110.00

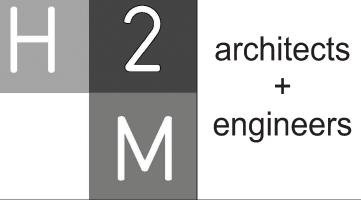
1 First Floor Plan Building A SCALE: 1/8"=1'-0"





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Key Plan
SCALE: N.T.S.



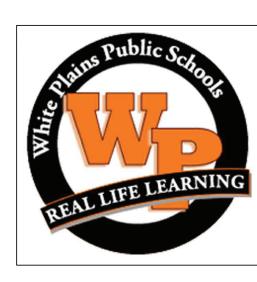
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# White Plains City School District

WHITE PLAINS HIGH SCHOOL UPGRADES AND TURF FIELD



550 North Street White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

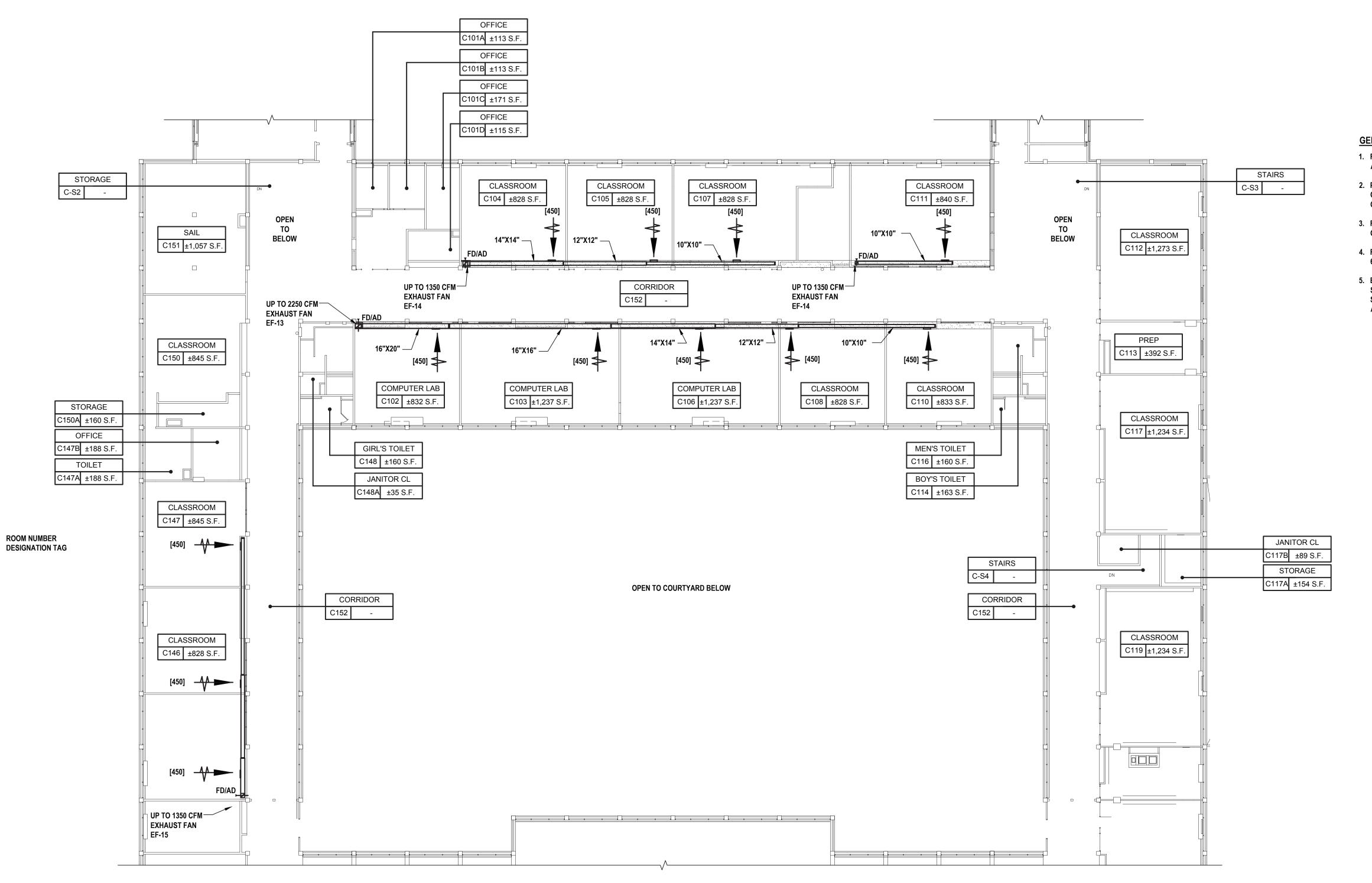
CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

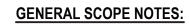
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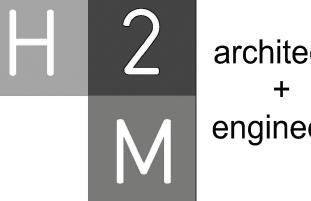
MECHANICAL FIRST FLOOR PLAN BUILDING B

M111.00





- FURNISH AND INSTALL NEW EXHAUST DUCTWORK WITHIN ARCHITECTURAL SOFFITS IN AREAS SHOWN ON PLANS.
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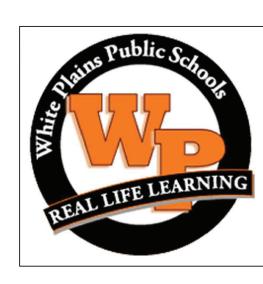
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## White Plains City School District

WHITE PLAINS HIGH SCHOOL UPGRADES AND TURF FIELD



550 North Street White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

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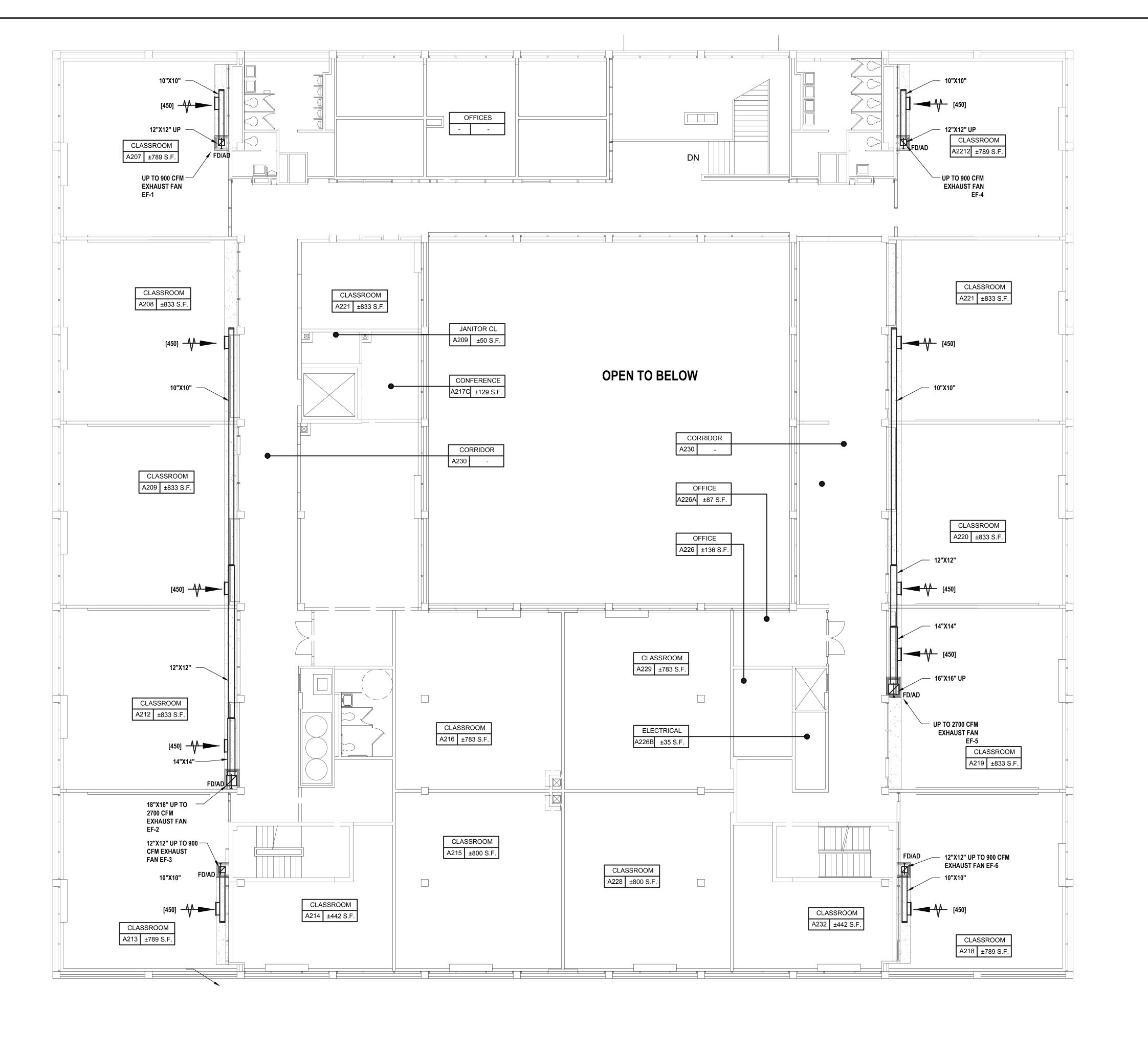
ET TITLE

MECHANICAL FIRST FLOOR PLAN BUILDING C

M112.00

Key Plan
SCALE: N.T.S.

First Floor Plan Building C
SCALE: 1/16"=1'-0"



### **GENERAL SCOPE NOTES:**

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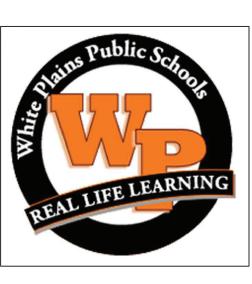
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## White Plains City School District

WHITE PLAINS HIGH SCHOOL UPGRADES AND TURF FIELD



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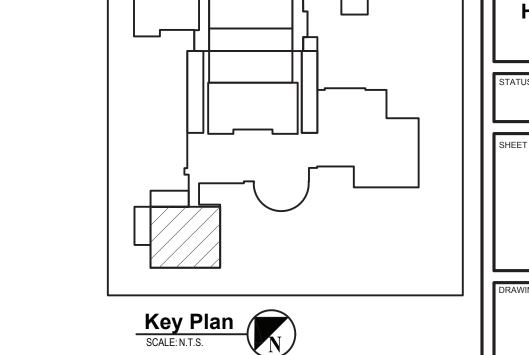
CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

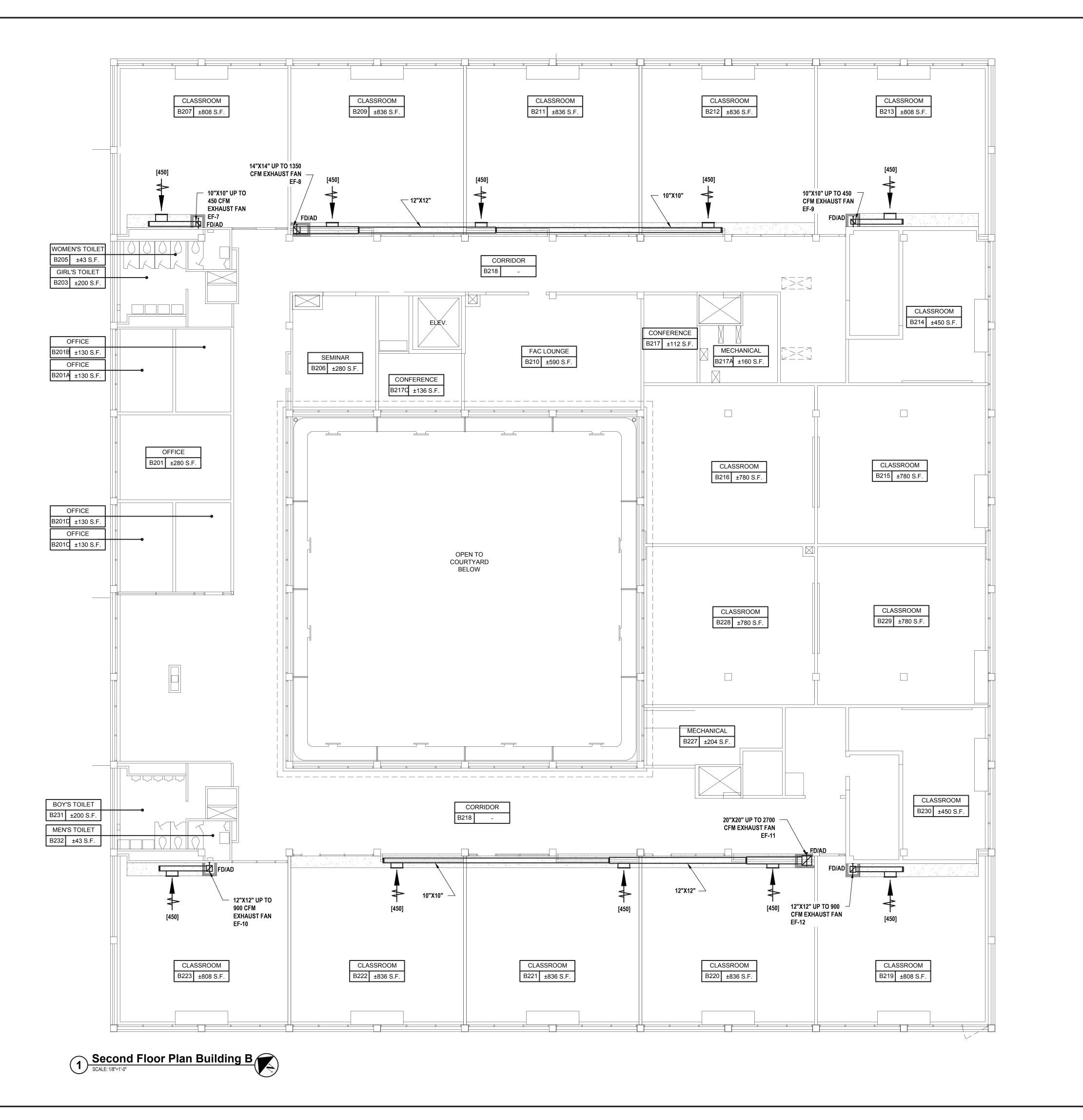
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TITLE

MECHANICAL SECOND FLOOR PLAN BUILDING A

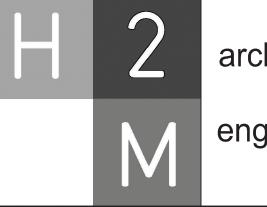
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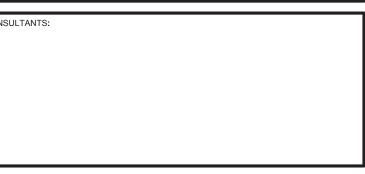


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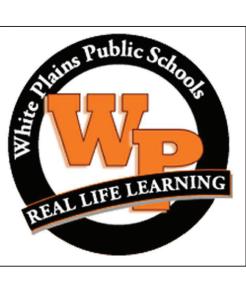


MARK	DATE	DESCRIPTION
-	07-24-2023	FINAL BID SET



## White Plains City School District

WHITE PLAINS HIGH SCHOOL UPGRADES AND TURF FIELD



550 North Street White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

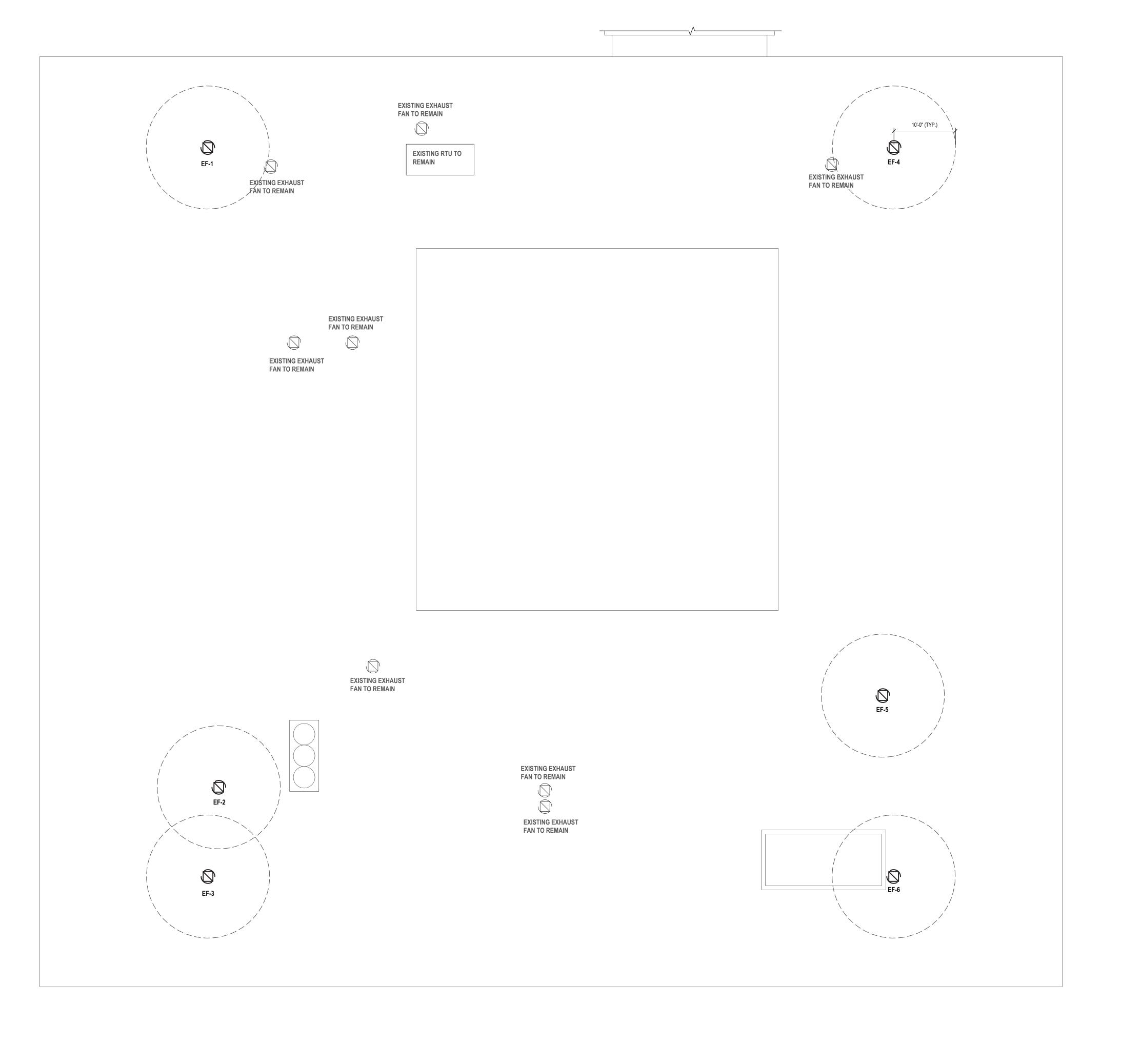
FINAL BID SET

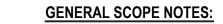
ET TITLE

MECHANICAL SECOND FLOOR PLAN BUILDING B

M121.00

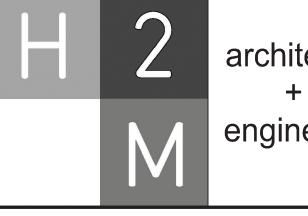
Key Plan
SCALE: N.T.S.





- 1. FURNISH AND INSTALL NEW ROOFTOP EXHAUST FANS AS SHOWN.
- ALL INSTALLED EQUIPMENT TO BE A MINIMUM OF 10'-0" AWAY FROM ROOF EDGE.
- 3. MAINTAIN 10'-0" DISTANCE FROM EXHAUST OUTLET TO THE OUTSIDE AIR INTAKE OF EXISTING ROOFTOP UNITS.
- 4. INSTALL ALL FANS IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH ALL PROVISIONS OF THE CURRENT NYS MECHANICAL CODE.

Key Plan
SCALE: N.T.S.



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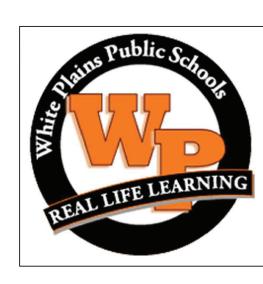
CONSULTANTS:

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# White Plains City School District

WHITE PLAINS HIGH SCHOOL UPGRADES AND TURF FIELD



550 North Street White Plains, NY 10605

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CONTRACT H
HEATING VENTILATION AND AIR
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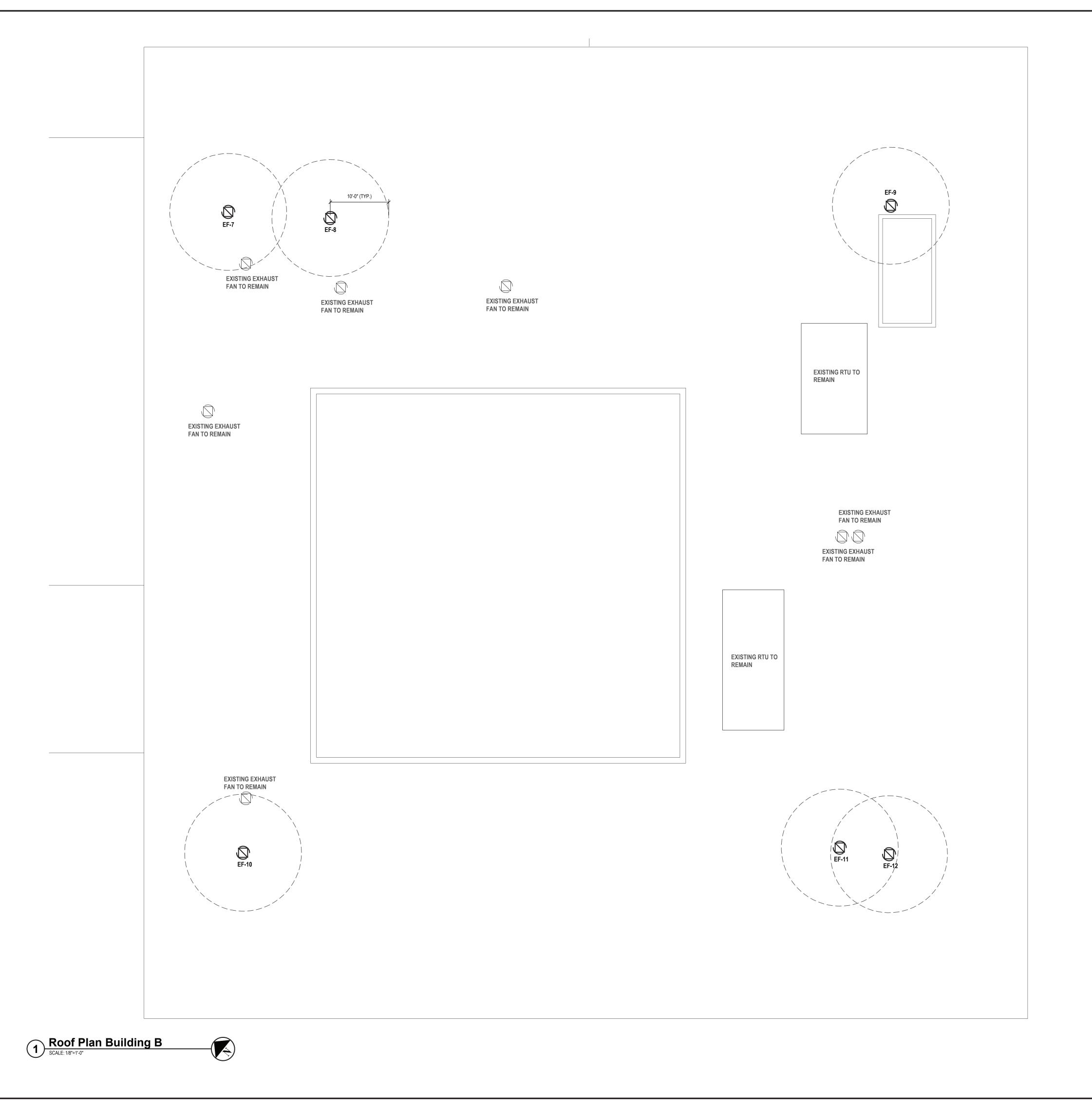
FINAL BID SET

TITI E

MECHANICAL ROOF PLAN -BUILDING A

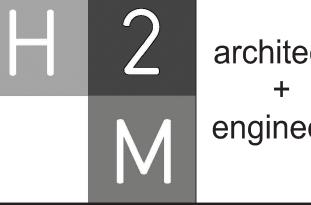
M140.00



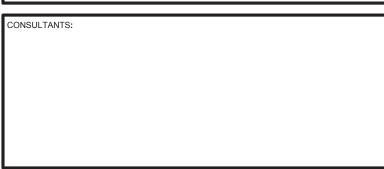


#### **GENERAL SCOPE NOTES:**

- 1. FURNISH AND INSTALL NEW ROOFTOP EXHAUST FANS AS SHOWN.
- 2. ALL INSTALLED EQUIPMENT TO BE A MINIMUM OF 10'-0" AWAY FROM ROOF EDGE.
- 3. MAINTAIN 10'-0" DISTANCE FROM EXHAUST OUTLET TO THE OUTSIDE AIR INTAKE OF EXISTING ROOFTOP UNITS.
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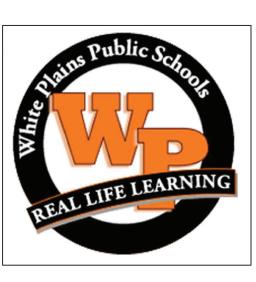


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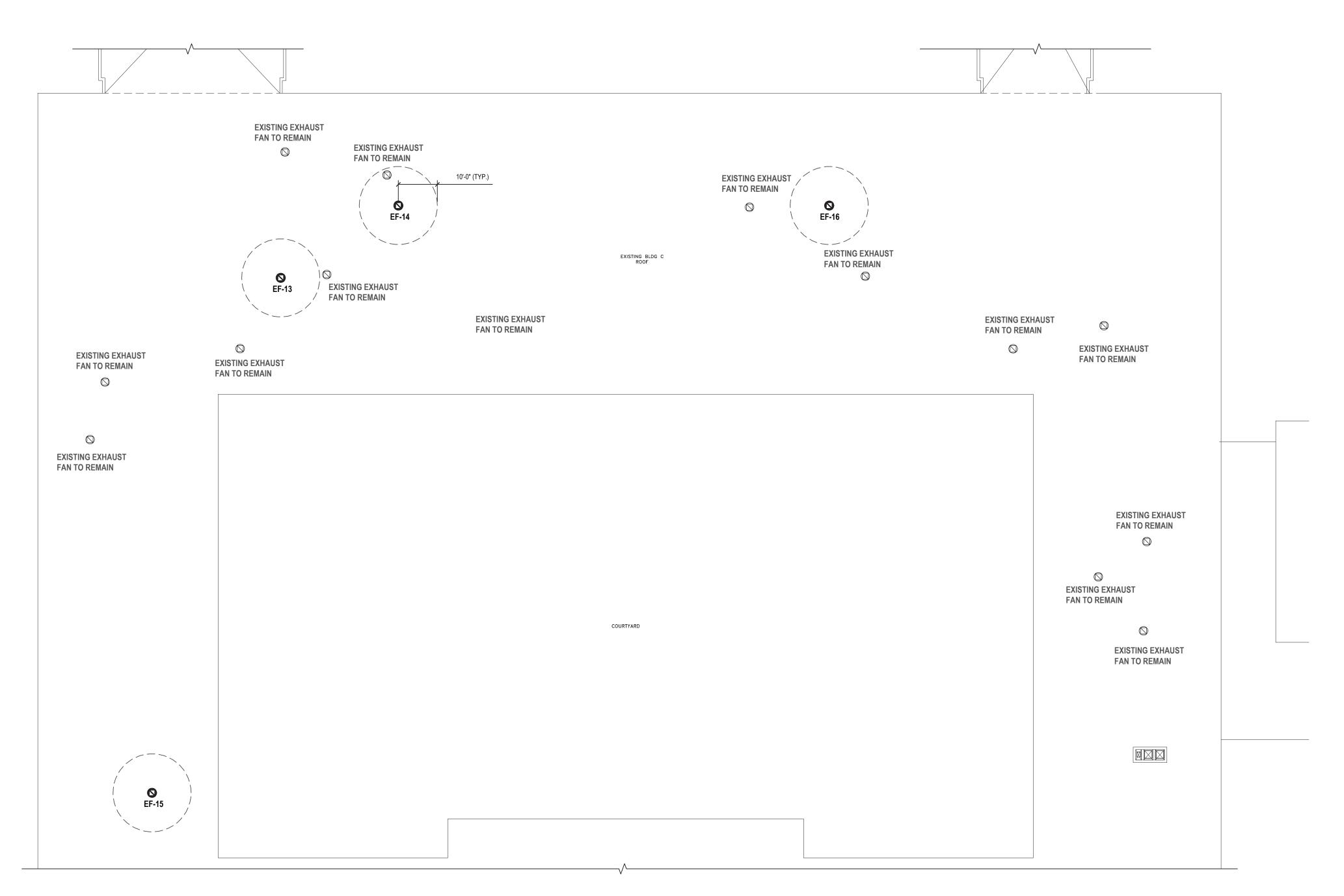
**CONTRACT H HEATING VENTILATION AND AIR** CONDITIONING

**FINAL BID SET** 

**MECHANICAL ROOF PLAN -BUILDING B** 

M141.00

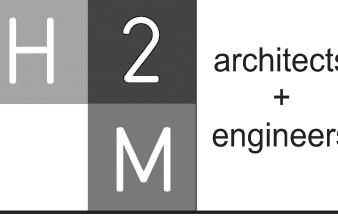








- 1. FURNISH AND INSTALL NEW ROOFTOP EXHAUST FANS AS SHOWN.
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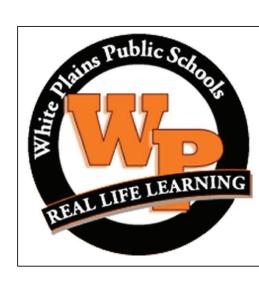
CONSULTANTS:

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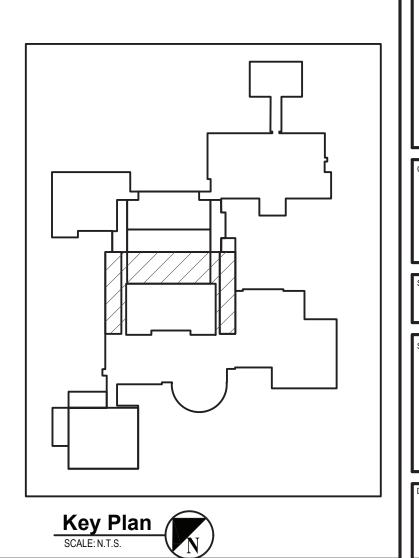
CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

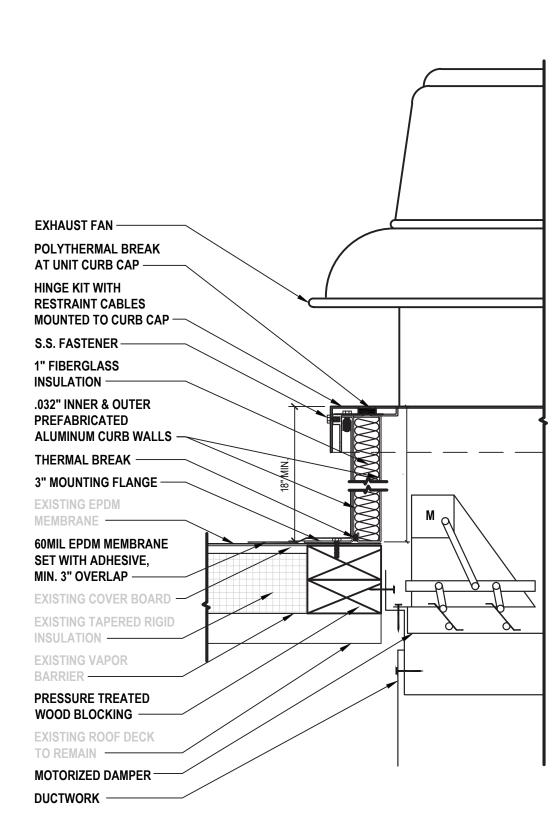
FINAL BID SET

ET TITLE

MECHANICAL ROOF PLAN -BUILDING C

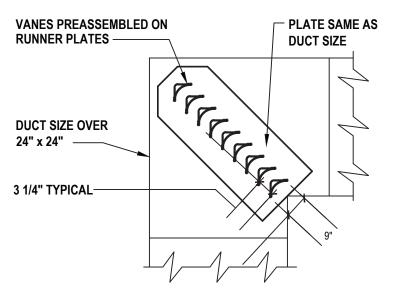
M142.00





- 1. CURBS AND FANS SHALL BE FROM THE SAME MANUFACTURER.
- 2. ROOF OPENING IN ACCORDANCE WITH MANUFACTURER'S APPROVED SHOP DRAWINGS.
- 3. CURB HEIGHT SHALL BE 18" ABOVE FINISHED ROOF.
- 4. ALL FLASHING AND ROOF WORK BY 'H' CONTRACTOR.
- 5. All ROOF PENETRATION WORK BY 'H' CONTRACTOR. 6. CONTRACTOR SHALL COORDINATE AND MAINTAIN EXISTING MANUFACTURER ROOFING WARRANTY.

Roof Exhaust Fan & Curb



SQUARE ELBOW WITH TYPE "A" DOUBLE

THICKNESS VANES

- FLEXIBLE, NON-FLAMMABLE GLASS

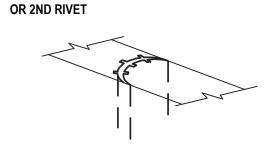
- UNIT HOUSING

OR DUCT

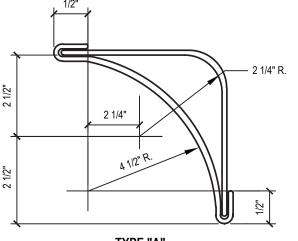
**FABRIC MATERIAL** 

- BOLT WITH NUT AND

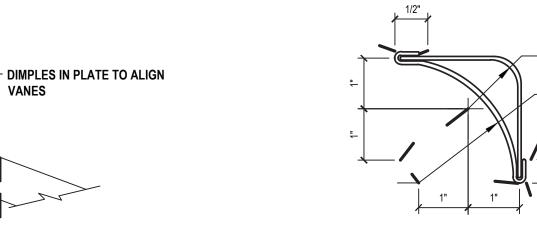
**WASHERS** 



PREFERENCE FOR SECURING EDGE 1ST WELD



TYPE "A" DOUBLE THICKNESS VANES FOR USE IN DUCTS GREATER THAN 24" x 24" IN SIZE. USE SAME GAUGE **GALVANIZED IRON AS DUCT NOT TO EXCEED 20 GAUGE.** 



DOUBLE THICKNESS VANES FOR USE IN DUCTS 24" x 24" AND UNDER

— LAPPED AND BUTTED

**ALL TRANSVERSE EDGES** TO BE COATED WITH

**ADHESIVE** 

Turning Vanes Detail
SCALE:NTS (DETAIL#

U-STRIP —

WASHER

DUCT

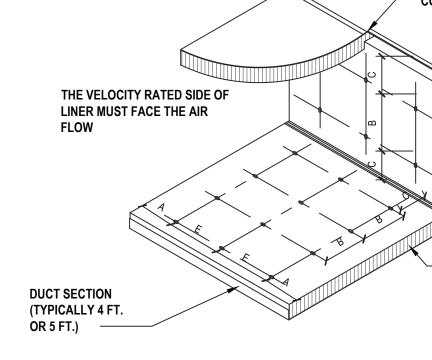
SHEET METAL

**SCREW WITH** 

SQUARE ELBOW WITH TYPE "B"

DOUBLE THICKNESS VANES.





MAXIMUM SPACING FOR FASTENERS. LINER ADHERED TO THE DUCT WITH ACTUAL INTERVALS ARE APPROXIMATE. 90% MIN. AREA COVERAGE OF

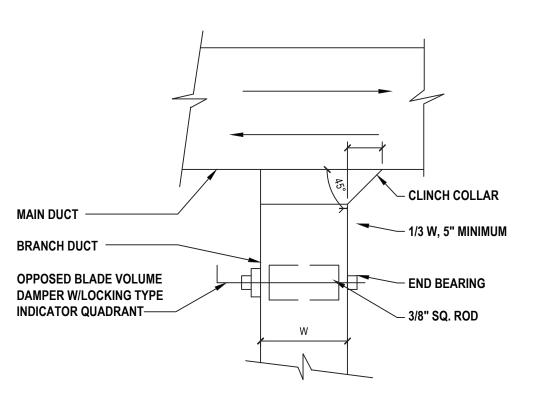
VELOCITY*	DIMENSIONS							
VELOCITI	Α	В	С	18" 16"				
0-1500 FPM	3"	12"	4"	18"				
1501-3500 FPM	3"	6"	4"	16"				

\* UNLESS A LOWER LEVEL IS SET BY MANUFACTURER OR LISTING AGENCY

Flexible Duct Connection

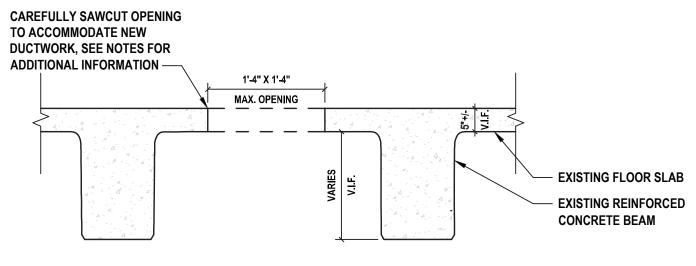
SCALE: NTS (DETAIL #)

Acoustical Liner Fastening Detail
SCALE: NTS (DETAIL #)



1. FURNISH THIS TYPE OF CONNECTION WHEN SINGLE LINE DUCTWORK IS INDICATED AS SHOWN FOR LOW PRESSURE BRANCHES WITH LESS THAN 33% CAPACITY OF MAIN DUCT.

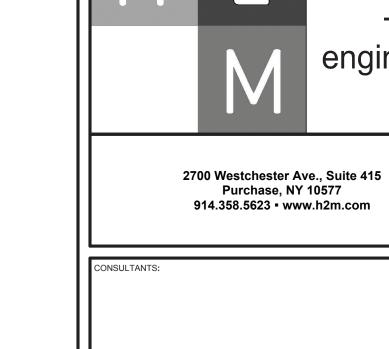
**Duct Branch Takeoff For Low Pressure Ductowrk**SCALE: NTS



- 1. LOCATIONS OF ALL DUCT AND CONDUIT PENETRATIONS THROUGH THE EXISTING ROOF AND FLOOR DECK SHALL BE COORDINATED IN THE FIELD SUCH THAT THE OPENINGS DO NOT COINCIDE WITH THE
- LOCATIONS OF THE REINFORCED CONCRETE DROPPED BEAMS. 2. OPENINGS SHALL BE LIMITED IN WIDTH TO THE CLEAR DIMENSION
- BETWEEN THE DROPPED BEAMS, AS SHOWN ABOVE.
- 3. MAXIMUM OPENING SHALL BE 1'-4" X 1'-4"
- 4. REFER 'H' DRAWINGS THROUGHOUT FOR APPROXIMATE SIZES AND LOCATIONS OF DUCT PENETRATIONS.
- 5. CONTRACTOR SHALL FIRE STOP ALL FLOOR, WALL AND ROOF
- PENETRATIONS, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Typical Roof / Floor Deck Penetration Detail

SCALE: NTS

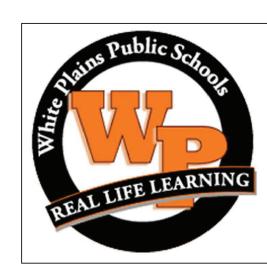


MARK	DATE	DESCRIPTION
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-	07-24-2023	FINAL BID SET



## **White Plains City School District**

WHITE PLAINS HIGH SCHOOL **UPGRADES AND TURF FIELD** 



**550 North Street** White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

**CONTRACT H HEATING VENTILATION AND AIR** CONDITIONING

**FINAL BID SET** 

**MECHANICAL DETAILS AND** SCHEDULES

M500.00

EQUIPMENT NO. LOCAT			PERFORMANCE/CONSTRUCTION REQUIREMENTS					BASIS OF DESIGN INFORMATION					
	LOCATION	QUANTITY	CINA	EXT S. P. (IN. W.C.)	FAN/MOTOR DUTY POINT RPM	FAN / MOTOR MAX RPM	ВНР	MNF	MODEL NO.	NOMINAL OPERATING WEIGHT (LBS.)	ELECTRICAL DATA		REMARKS
											VOLTS/PHASE	MOTOR HP	
EF-7, 9, 16	ROOFTOP	2	450	0.75	1488	1725	0.12	GREENHECK	G-098-VG	53	115 / 1	1/4	1-5
EF-1, 3, 4, 6, 10, 12	ROOFTOP	6	900	0.75	1677	1725	0.24	GREENHECK	G-099-VG	53	115 / 1	1/4	1-5
EF-8, 14, 15	ROOFTOP	2	1350	0.75	1472	1725	0.31	GREENHECK	G-120-VG	61	115 / 1	1/2	1-6
EF-14	ROOFTOP	1	1800	0.75	1560	1725	0.44	GREENHECK	G-130-VG	65	115 / 1	3/4	1-6
EF-13	ROOFTOP	1	2250	0.75	1486	1725	0.68	GREENHECK	G-140-VG	72	115 / 1	1	1-6
EF-2, 5, 11	ROOFTOP	3	2700	0.75	1215	1725	0.72	GREENHECK	G-160-VG	81	208 / 1	2	1-6

- 1. MOTOR SPEED CONTROLLER TO BE INTEGRAL / MOTOR MOUNTED TO BE USED FOR MANUAL SPEED ADJUSTMENT FOR BALANCING.
- 2. MANUFACTURER PROVIDED HOOD HASP
- 3. NEMA 3R DISCONNECT SWITCH 4. GALVANIZED MESH
- HINGED BASE 6. FIRE ALARM FAN SHUTDOWN REQUIRED