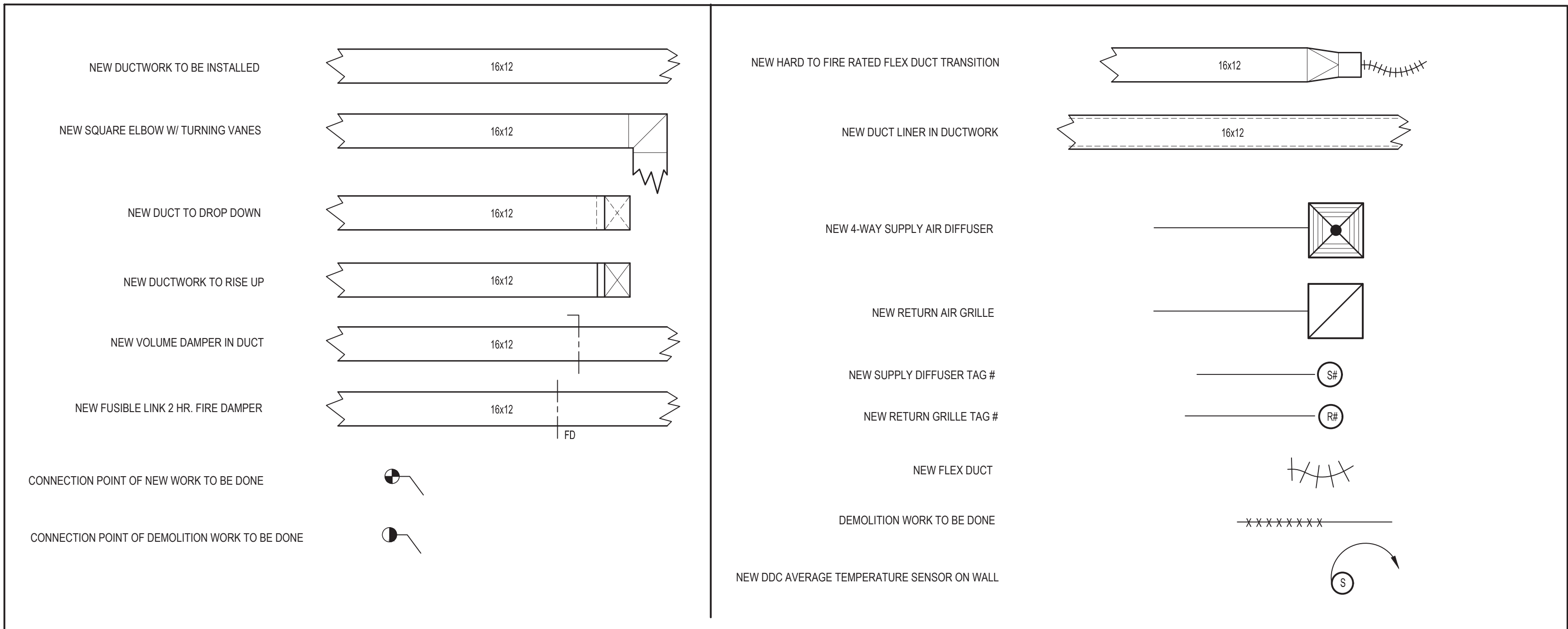


MECHANICAL FIRST FLOOR KEY PLAN

SCALE: 1/32" = 1'-0"

MECHANICAL LEGEND, SYMBOLS, AND ABBREVIATIONS



GENERAL NOTES

- REMOVAL & RELOCATION OF CERTAIN EXISTING WORK SHALL BE NECESSARY FOR THE PERFORMANCE OF THE NEW WORK SHOWN HEREIN. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE & MAKE ALL NECESSARY CHANGES BASED ON EXISTING CONDITIONS AS REQUIRED FOR PROPER DEMOLITION OF EXISTING WORK & SHALL INCLUDE ALL MATERIALS & LABOR FOR SAME IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE PREMISES OF THE PROPOSED WORK & SHALL CAREFULLY EXAMINE THE ENGINEERING DRAWINGS, EXISTING CONDITIONS & LIMITATIONS THEREOF. VERIFY ACTUAL LOCATIONS WHERE THE NEW PIPING WILL BE ROUTED, COORDINATE WITH NEW & EXISTING WORK & PROVIDE CLEARANCE W/ BUILDING STRUCTURE, OTHER SERVICES, ETC. THE CONTRACTOR SHALL INCLUDE ALL COSTS WHATSOEVER WHICH ARE INCURRED AS A RESULT OF LIMITATIONS OF THE EXISTING & NEW CONDITIONS. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT, MATERIALS, ETC. REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN WILL NOT BE CONSIDERED AS EXTRA WORK.
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE & REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH THE BUILDING.
- COORDINATE THE EXACT SIZE & LOCATION OF NEW OPENINGS WITH EXISTING STRUCTURE. PATCH / INSULATE AS REQUIRED. CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS FROM NEW PIPING, CONDUIT, DUCTWORK, ETC. THROUGH EXISTING OR NEW FIRE / SMOKE BARRIERS. REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS.
- IT IS THE INTENT OF THIS CONTRACT FOR REMAINING SYSTEMS TO BE LEFT IN GOOD WORKING ORDER, READY FOR OPERATION. COORDINATE ANY REQUIRED SYSTEM SHUTDOWNS WITH OWNER 48 HOURS IN ADVANCE. EXISTING SYSTEM SHUTDOWNS WILL NOT BE PERMITTED IF THEY INTERFERE WITH THE DAILY OPERATIONS OF THE BUILDING. CONTRACTOR WILL BE REQUIRED TO TAKE PROPER PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING, PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S COST AS A PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL REPAIR / RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OR MATERIALS DAMAGED IN THE PROCESS OF INSTALLATION, OR DEMOLITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL MAKE REPAIRS USING THE SAME OR EQUIVALENT MATERIALS. WORK WILL BE PERFORMED AT THE CONTRACTOR'S COST.
- CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
- DURING THE LIFE OF THE CONTRACT PERIOD, CONTRACTOR SHALL REMOVE ALL RUBBISH / EXCESS MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS ON A DAILY BASIS. ALL AREAS / EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE KEPT CLEAN OF DUST / DEBRIS. ALL AREAS SHALL RECEIVE A FINAL CLEANING PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
- PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO SCHEDULING THE WORK. WORK SHALL BE PERFORMED IN PROPER SEQUENCE, AS AGREED TO BY ALL TRADES. ANY COSTS INCURRED BY THE OWNER DUE TO IMPROPER SEQUENCING OF WORK WILL BE PAID FOR BY THIS CONTRACTOR.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
- PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.
- THE MECHANICAL CONTRACTOR SHALL REFER TO / REVIEW ALL OTHER TRADE DRAWINGS IN THE BID PACKAGE & SHALL BE RESPONSIBLE FOR PERFORM ALL WORK INDICATED AS (M.C.) MECHANICAL WORK AS A PART OF THE BASE BID UNLESS SPECIFICALLY NOTED OTHERWISE.
- SUBSTITUTED EQUIPMENT OF GREATER OR LARGER POWER, DIMENSIONS, CAPACITIES & RATINGS MAY BE FURNISHED PROVIDED THAT SAID EQUIPMENT IS APPROVED IN WRITING PRIOR TO ORDER. ANY CONNECTING MECHANICAL SERVICES, ELECTRICAL SERVICES, BASES, STRUCTURAL APPURTENANCES, ETC. REQUIRED TO BE INCREASED DUE TO THE USE OF SAID EQUIPMENT WILL BE PAID FOR IN FULL BY THE MECHANICAL CONTRACTOR, INCLUDING ANY ADDITIONAL REQUIRED ENGINEERING FEES.
- EACH PIECE OF EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT TYPE LAMINATED, BLACK FINISH, WHITE CORE, PHENOLIC NAMEPLATE. NAMEPLATES SHOULD INDICATE THE NAME & NUMBER OF THE UNIT, UNIT VOLTAGE, & ANY INTERLOCK REFERENCE. STARTERS / DISCONNECT SWITCHES SHOULD ALSO BE EQUIPPED WITH AN IDENTICAL NAMEPLATE WITH THE SAME INFORMATION.
- "ATTIC STOCK" - UPON COMPLETION OF THE PROJECT, MECHANICAL CONTRACTOR SHALL COMPLETELY REMOVE / DISPOSE OF FILTERS USED DURING CONSTRUCTION & START-UP PROCEDURES. INSTALL NEW FILTERS IN ALL EQUIPMENT, MERV-8 OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PIECE OF EQUIPMENT & TURN OVER TO OWNER.
- MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EACH SIZE MOTOR USED ON THE PROJECT. IN INSTANCES WHERE MORE THAN TEN OF THE SAME MOTOR ARE USED, MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EVERY TEN MOTORS OF A GIVEN SIZE USED ON THE PROJECT.
- MAINTENANCE MANUAL: UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PIECE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL CONTAIN A LIST OF EACH PIECE OF EQUIPMENT, COMPLETE WITH INFORMATION SHOWING APPROPRIATE REPLACEMENT FILTER SIZES / TYPES, APPROPRIATE REPLACEMENT BELT SPECIFICATIONS, REPLACEMENT MOTOR SPECIFICATIONS, REPLACEMENT BEARING SPECIFICATIONS, VOLTAGES OF UNIT, ETC. THIS SHALL SERVE AS A WRITTEN DATABASE DESCRIBING ALL MAINTENANCE INFORMATION FOR EACH NEW PIECE OF EQUIPMENT USED.

CONTROLS SUBCONTRACTOR, UNDER CONTRACT TO MECHANICAL CONTRACTOR

FIRE STOPPING NOTES

- ALL PENETRATIONS RELATED TO MECHANICAL WORK THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL BY MECHANICAL CONTRACTOR. IT IS ASSUMED THAT ALL WALLS IN THE CONSTRUCTION CARRY A MINIMUM FIRE RATING OF 1 HR. IT SHOULD BE ASSUMED THAT ALL MACHINE ROOM WALLS / BOILER ROOM WALLS / ELECTRIC ROOM WALLS CARRY A RATING OF 2 HR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A PRELIMINARY REVIEW OF THE ARCHITECTURAL DRAWINGS IN ORDER TO DETERMINE FIRE RATINGS OF ALL WALLS / PARTITIONS RELATED TO WORK UNDER THIS CONTRACT.
- MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS. DUCTS PENETRATING SAID RATED BARRIERS SHALL BE EQUIPPED WITH A UL LISTED FUSIBLE LINK TYPE FIRE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER, POSITIONED FOR EASY REPLACEMENT OF THE LINK.
- MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS OCCUR BETWEEN SEPARATE SMOKE ZONES. DUCTS PENETRATING SAID FIRE / SMOKE BARRIERS SHALL BE EQUIPPED WITH A UL LISTED COMBINATION FIRE / SMOKE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE / SMOKE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER. DAMPER ACTUATOR & RELATED WIRING SHALL BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE DAMPER INSTALLATIONS W/ E.C. TO VERIFY PROPER CLEARANCES TO ASSURE PROPER DAMPER OPERATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS, SHOWING EACH DAMPER LOCATION, TYPE OF DAMPER, ACCESS DOOR LOCATIONS, ETC.
- CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS REGARDING FIRESTOPPING MATERIALS & METHODS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED. FIRESTOP MATERIALS OTHER THAN THE PRODUCTS SPECIFIED SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRESTOPPING MATERIALS.

GENERAL INSTRUMENTATION NOTES

- AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS:
 - AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED)
 - AT INLET & OUTLET OF EACH HYDRONIC BOILER, CHILLER OR COOLING TOWER.
 - AT INLET & OUTLET OF EACH HYDRONIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
- AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS:
 - AT SUCTION & DISCHARGE OF EACH PUMP.
 - FOR EACH MAKEUP WATER LINE.
 - BEFORE & AFTER ALL PRESSURE REDUCING VALVES.
 - AT ACCESSIBLE HIGH POINT OF ALL HYDRONIC PIPING SYSTEMS.
 - AT ALL EXPANSION / COMPRESSION TANKS.

PIPING SYSTEMS AND EQUIPMENT VENTING NOTES

- MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER VENTING OF ALL NEWLY INSTALLED HYDRONIC PIPING SYSTEMS. AUTOMATIC AIR VENTS SHALL BE INSTALLED AT EVERY HIGH POINT IN THE PIPING SYSTEM WHERE AIR CAN COLLECT. PROVIDE COCK IN RISER PRIOR TO AUTOMATIC AIR VENT. NEW AIR VENTS SHALL BE "TACO" RHY-VENT OR EQUIVALENT.
- MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL NEW AUTOMATIC AIR VENT FOR EACH AIR HANDLING UNIT COIL OR DUCT MOUNTED COIL. INSTALL SHUT-OFF COCK PRIOR TO VENT TIE-IN.
- MECHANICAL CONTRACTOR SHALL PROVIDE NEW MANUAL AIR VENTS FOR ALL UNIT VENTILATOR COILS, CONVECTORS, FAN COIL UNITS, FIN TUBE RADIATORS, ETC. MANUAL VENTS SHALL BE "TACO" #417 COIL VENT OR EQUIVALENT. PROVIDE SHUT-OFF COCK PRIOR TO VENT. AIM COIL VENT DISCHARGE IN AN APPROPRIATE MANNER AS TO FACILITATE THE CAPTURE OF BLEED WATER WHILE PERFORMING SYSTEM BLEEDING OPERATIONS.

ELECTRICAL WORK UNDER MECHANICAL CONTRACT

- MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS & DISCONNECT SWITCHES REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT. STARTER / DISCONNECT SWITCH INSTALLATION TO BE PERFORMED UNDER THE ELECTRICAL CONTRACT. COORDINATE WORK W/ ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
- POWER WIRING REQUIRED FOR CONTROLS SHALL BE PERFORMED UNDER THE MECHANICAL CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED ELECTRICIAN (PER NEC REQUIREMENTS) TO PERFORM ALL ELECTRICAL WORK.

DUCTWORK NOTES

- PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891, AND IN CONFORMANCE WITH "SMACNA" SPECIFICATIONS.
- IF A DUCT ELBOW IS SHOWN TO BE RADIIUSED, THEN RADIIUSED ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIIUSED ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
- PROVIDE DUCT LINING IN ALL DUCTWORK THAT IS CONVEYING BELOW AMBIENT TEMPERATURE AIR & IS NOT INSULATED. PROVIDE LINING IN SUPPLY & RETURN AIR DUCTWORK FROM AIR HANDLING EQUIPMENT TO 20 FEET AWAY FROM THE UNITS). IN ADDITION, INCLUDE LINING IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 15891 & 15290 FOR FURTHER INFORMATION.
- WHERE FLEXIBLE DUCTWORK IS USED, LENGTHS MAY NOT EXCEED 4 FEET TOTAL IN ANY ONE RUN OF FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE RATED IN ACCORDANCE WITH UL 181, CLASS 1. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOCKING QUADRANT HANDLE PRIOR TO EACH AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREVER POSSIBLE.
- MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

TESTING and BALANCING NOTES

- MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15990 & 15997 FOR FURTHER DETAILS.
- UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING REPORT SUBMISSION. INDEPENDENT TESTING AGENCY SHALL SELECT A RANDOM NUMBER OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
- IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 2dB DIFFERENT THAN THAT ORIGINALLY MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. ALL SYSTEMS WILL THEN BE REQUIRED TO BE COMPLETELY RE-TESTED, WITH A SECOND REPORT SUBMITTED. IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE READJUSTED & TESTED, NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

CONTRACTOR ABBREVIATIONS:

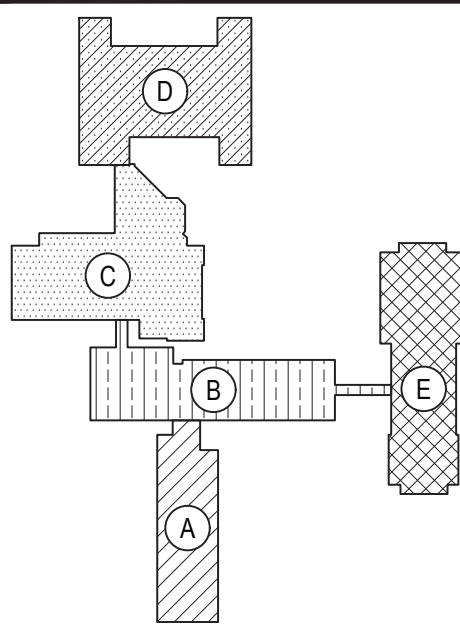
M.C. = MECHANICAL CONTRACTOR
C.C. = CONTROLS CONTRACTOR
R.C. = CERTIFIED ROOFING CONTRACTOR

P.C. = PLUMBING CONTRACTOR
E.C. = ELECTRICAL CONTRACTOR

REV.	DATE	ITEM

NOTICE

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KEY PLAN
NOT TO SCALE

PROJECT
GREENBURGH CENTRAL SCHOOL DISTRICT
PHASE 1 - DISTRICT WIDE CAPITAL IMPROVEMENTS
WOODLANDS MIDDLE/ HIGH SCHOOL
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE
MECHANICAL GENERAL NOTES AND SYMBOLS

DRAWING BY: DS
CHECK BY: DS

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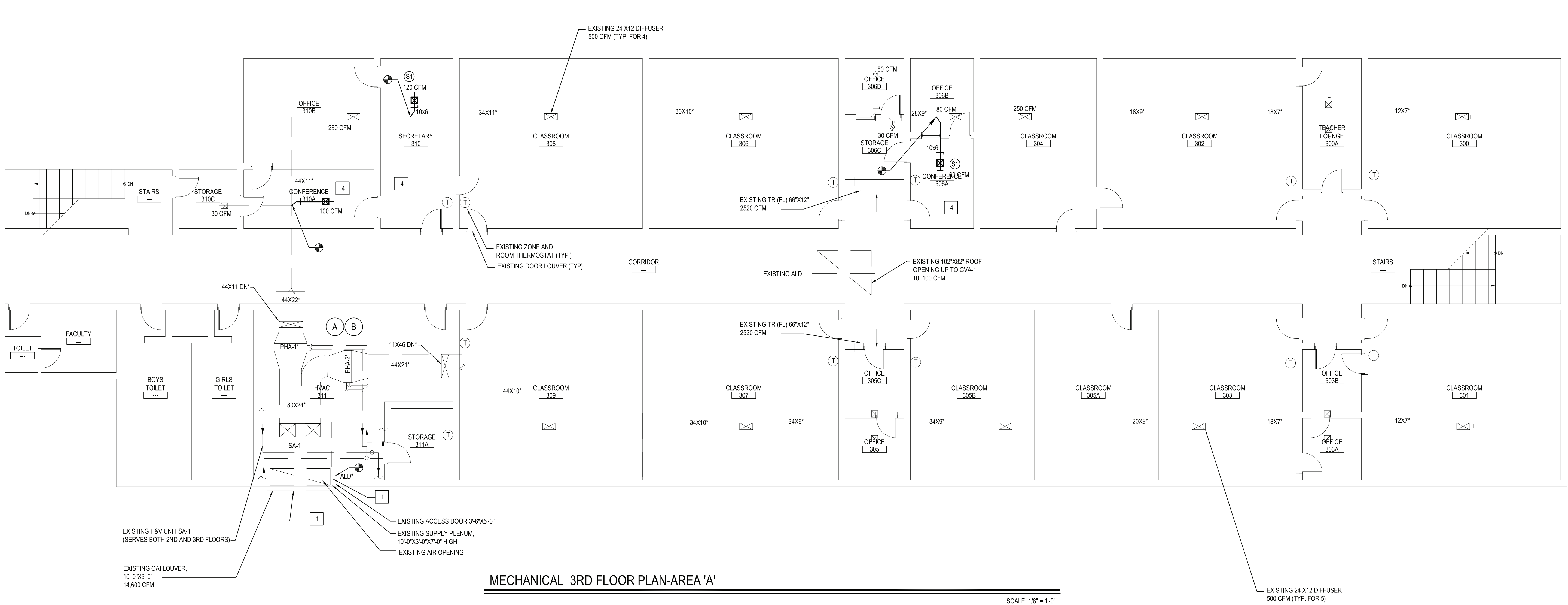
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LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET | 187 WOLF ROAD, STE. 205
PATCHOGUE, NEW YORK 11772 ALBANY, NEW YORK 12205
T. 631.475.0349 T. 518.621.7650
F. 631.475.0361 F. 518.621.7655

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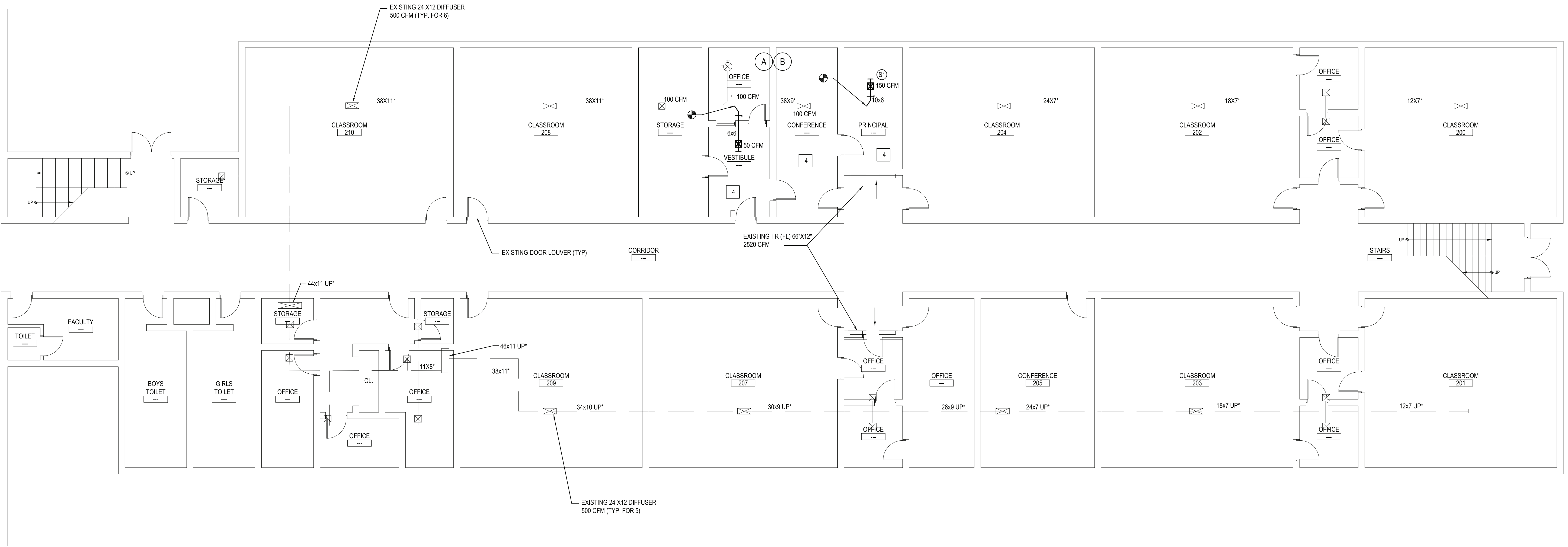
SED No: 66-04-07-06-0-007-022
DISTRICT: GREENBURGH CSD
PROJECT: PH 1 - DW CAP IMPROVEMENTS
WOODLANDS M.S.H.S.
DWG TITLE: MECHANICAL GENERAL
NOTES AND SYMBOLS
SCALE: AS NOTED
DATE: MAY 2022
BID PICK-UP: MAY 27, 2022
FILE No: 21-291

M0.01D



MECHANICAL 3RD FLOOR PLAN-AREA 'A'

SCALE: 1/8" = 1'-0"



MECHANICAL 2ND FLOOR PLAN-AREA 'A'

SCALE: 1/8" = 1'-0"

VENTILATION SCHEDULE

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbr (CFM)	Zone Air Distribution Effectiveness, Ex	Corrected Zone Outdoor Airflow CFM, Voz	OAI (CFM) Supplied
310 B	Office space	5	5	0.06	0	319	2	30	0.8	38	250
310A	Conference room	50	5	0.06	0	180	9	56	0.8	70	100
310C	Storage room	0	0	0.12	0	80	0	10	0.8	13	30
310	Office space	5	5	0.06	0	287	2	28	0.8	35	120
306A	Conference room	50	5	0.06	0	133	7	43	0.8	54	60
306B	Office space	5	5	0.06	0	109	1	12	0.8	15	80
306D	Office space	5	5	0.06	0	77	1	10	0.8	13	30
300C	Storage room	0	0	0.12	0	80	0	10	0.9	12	15
206 Storage	Office space	5	5	0.06	0	254	2	26	0.9	29	100
206 Office	Office space	5	5	0.06	0	105	1	12	0.9	14	100
206 Vestibule	Main entry lobby	10	5	0.06	0	130	2	18	0.9	20	50
206 Conf.	Conference/meeting	50	5	0.06	0	245	13	80	0.9	89	100
206 Principal	Office space	5	5	0.06	0	168	1	16	0.9	18	150

DIFFUSER & REGISTER SCHEDULE (ANEMOSTAT AS STANDARD)						
TAG	MANUFACTURER MODEL NO.	MODULE SIZE	NECK SIZE	MAXIMUM NC LEVEL	CFM RANGE	SYMBOL/FLOW PATTERN
S1	CEILING DIFFUSER ANEMOSTAT MODEL DP T-BAR LAY-IN	12x12	6"	20 NC	UP TO 189	☒ ALL FLOW PATTERNS
R1	CEILING GRILLES ANEMOSTAT	24x24	22x22	26 NC	UP TO 1400	☑
R2	MODEL 36-45	12x12	10x10	20 NC	UP TO 415	☑
REMARKS						
1. COORDINATE BORDER TYPE TO ALL AIR OUTLETS WITH CEILING CONSTRUCTION. SEE DRAWINGS.						
2. ALL AIR OUTLETS TO BE WHITE FINISH.						

- NOTES:
- REPLACE BOTH AUTOMATIC OAI DAMPER AND RETURN PLENUM DAMPER WITH NEW TO MATCH EXISTING. REPLACE PNEUMATIC CONTROLS WITH NEW TO MATCH EXISTING. NEW OAI DAMPER TO BE OPENED TO BRING IN MIN. REQUIRED VENTILATION DURING ALL SEASONS. V.I.F. EXISTING DAMPERS SIZES AND EXACT LOCATION IN THE MIXING PLENUM
 - CONTROLS SUBCONTRACTOR, UNDER CONTRACT TO MECHANICAL CONTRACTOR
 - BALANCE NEW AND EXISTING DIFFUSERS FOR ROOMS 310, 306, 304 AND 206 AS INDICATED ON DWG
 - NC TO REPAIR CEILING GRID AFTER NEW HVAC WORK IS DONE

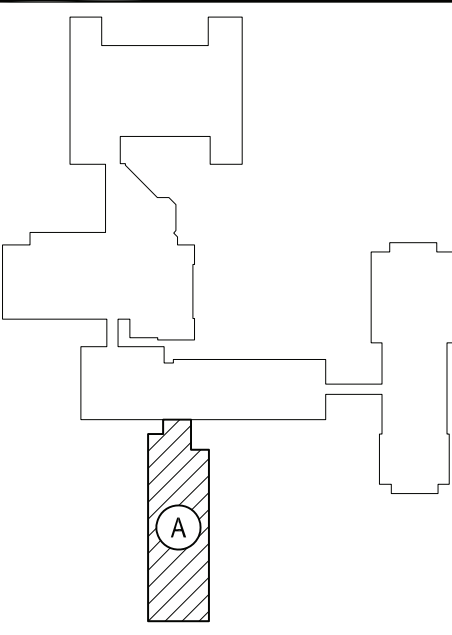
ABATEMENT NOTES

- (A) REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH CANVAS WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT. LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 96 AND SPECIFICATIONS.
- (B) REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH TAR CONTAINING WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT. LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 96 AND SPECIFICATIONS.
- (C) REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING DUCT INSULATION. AT ALL LOCATIONS BASED ON THIS PROJECT. LOCATED IN CAFETERIA MECHANICAL ROOM #1. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 96 AND SPECIFICATIONS.

NOTES:
REFER TO ENVIRONMENTAL CONSULTANTS' REPORT FOR PROJECT # 21018, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED ASBESTOS CONSTRUCTION MATERIALS. G.C. TO COORDINATE WITH ENVIRONMENTAL FOR PROJECT-SPECIFIC ABATEMENT & DISPOSAL PROTOCOL REQUIRED.

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS
WOODLANDS MIDDLE/HIGH SCHOOL
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

PROJECT
DRAWING BY: DS
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NOTICE
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ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

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SED No: 66-04-07-06-0-007-022

DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP IMPROVEMENTS
WOODLANDS M.S.H.S.

DWG TITLE: MECHANICAL 2ND AND 3RD FL.
PLAN - AREA 'A'

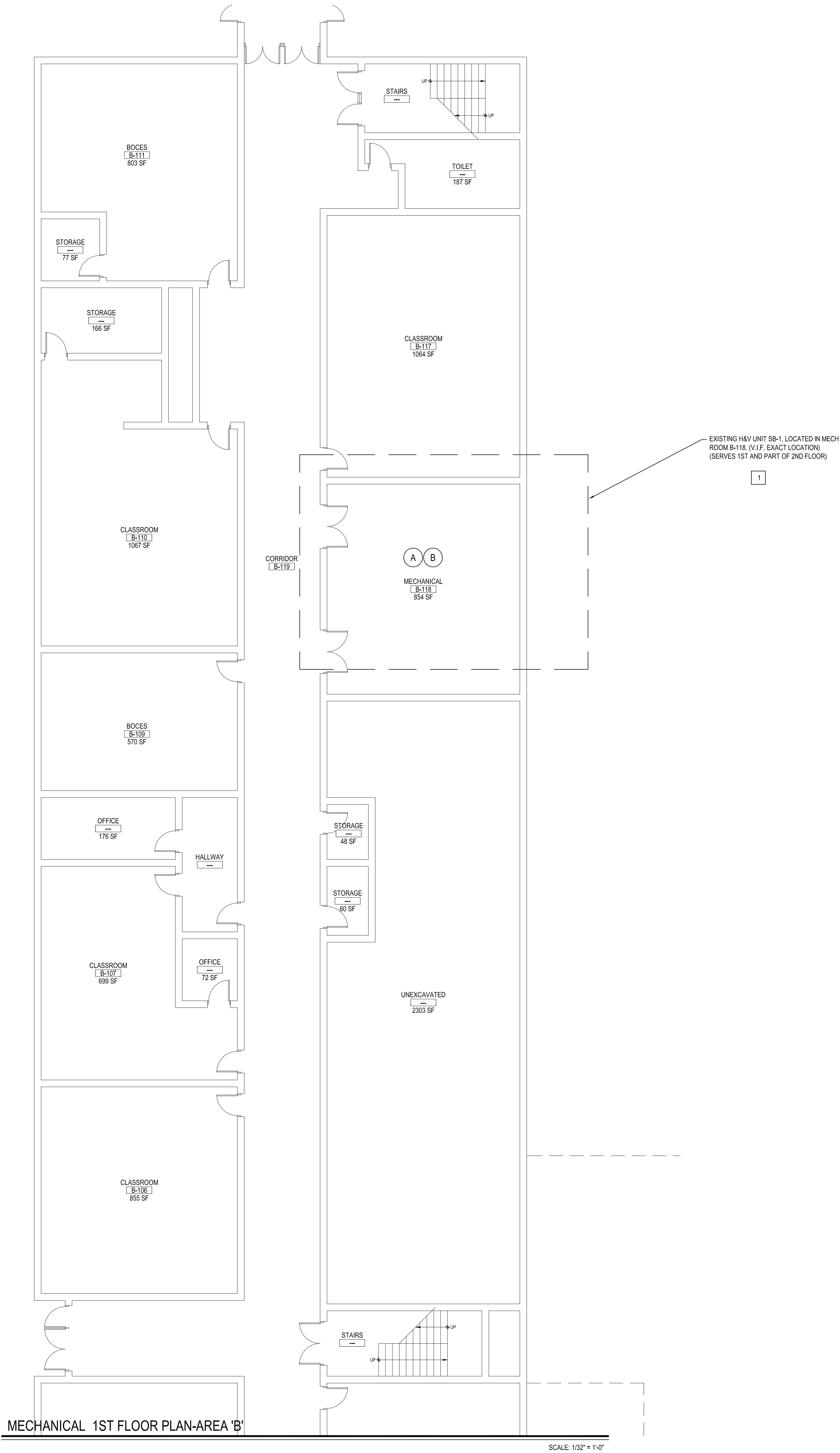
SCALE: AS NOTED

DATE: MAY 2022

BID PICK-UP: MAY 27, 2022

FILE No: 21-291

M1.01D



- NOTES:
- 1
- V.I.F. EXISTING OAI DAMPER. EXACT LOCATION IN THE MIXING PLENUM (OUTSIDE WALL).
 - INSPECT OAI DAMPER BLADES FOR FREE, UNHINDERED MOVEMENT. REMOVE RUST FROM DAMPER'S BLADES IF NECESSARY.
 - TEST DAMPER WITH ACTUATOR UNPLUGGED, TO ENSURE DAMPER WORKS ON ITS OWN.
 - CHECK SEALS FOR TIGHT CLOSURE. REPLACE WORN SEALS WITH NEW ONES.
 - REPLACE ANY WORN OR RUSTED BUSHING AND PINS.
 - APPLY APPROVED LUBRICANTS TO ALL METALLIC PARTS.
 - REPLACE IF NECESSARY PNEUMATIC ACTUATOR WITH NEW TO MATCH EXISTING.
 - OAI DAMPER TO BE OPENED TO BRING IN MIN. REQUIRED VENTILATION IN ALL SEASONS.
- 2
- CONTROLS SUBCONTRACTOR, UNDER CONTRACT TO MECHANICAL CONTRACTOR

PRE-ABATEMENT WORK NOTES:

1. THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONAL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS. THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH LABEL AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.

POST-ABATEMENT WORK NOTES:

1. THE CONTRACTOR SHALL, UPON COMPLETION OF REMOVALS, PROVIDE WRITTEN DOCUMENTATION THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL HAZARDOUS MATERIALS.

2. THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL HAZARDOUS MATERIALS REMOVED FROM THE SITE.

ABATEMENT NOTES	
A	REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH CANVAS WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
B	REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH TAR CONTAINING WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
C	REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING DUCT INSULATION. AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN CAFETERIA MECHANICAL ROOM #1. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
NOTES: REFER TO ENVIROSCIENCE CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED ASBESTOS CONSTRUCTION MATERIALS. G.C. TO COORDINATE WITH ENVIROSCIENCE FOR PROJECT-SPECIFIC ABATEMENT & DISPOSAL PROTOCOL REQUIRED.	

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

GREENBURGH CENTRAL SCHOOL DISTRICT
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS
WOODLANDS MIDDLE/ HIGH SCHOOL
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE

MECHANICAL 1ST FLOOR PLAN - AREA 'B'

DRAWING BY: DS

CHECK BY: DS

NOTICE

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SED No: 66-04-07-06-0-007-022

DISTRICT: GREENBURGH CSD

PROJECT: PH. I - DW CAP. IMPROVEMENTS
WOODLANDS M.S.H.S.

DWG TITLE: MECHANICAL 1ST FL.
PLAN - AREA 'B'

SCALE: AS NOTED

DATE: MAY 2022

BID PICK-UP: MAY 27, 2022

FILE No: 21-291

M1.02D



MECHANICAL GROUND FL. PLAN-AREA 'C'

SCALE: 1/8" = 1'-0"

PRE-ABATEMENT WORK NOTES:

1. THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONAL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS. THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH, LABEL AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.

POST-ABATEMENT WORK NOTES:

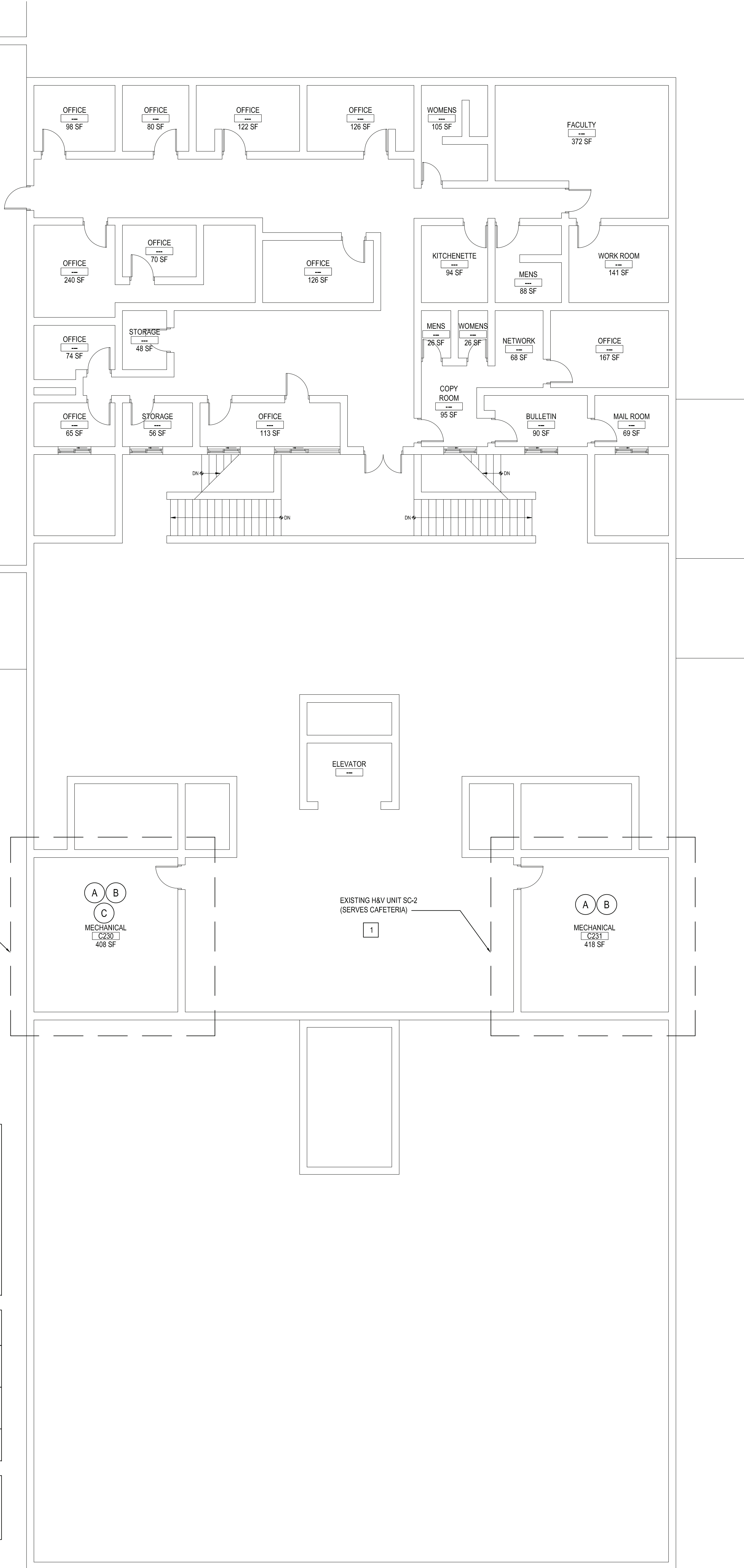
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ABATEMENT NOTES	
(A)	REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH CANVAS WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
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(C)	REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING DUCT INSULATION, AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN CAFETERIA MECHANICAL ROOM #1. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
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MECHANICAL 2ND FL. PLAN-AREA 'C'

SCALE: 1/8" = 1'-0"



REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

GREENBURGH CENTRAL SCHOOL DISTRICT
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS
WOODLANDS MIDDLE/ HIGH SCHOOL
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE

MECHANICAL GROUND AND 2ND FL. PLAN - AREA 'C'

DRAWING BY: DS
CHECK BY: DS

NOTICE

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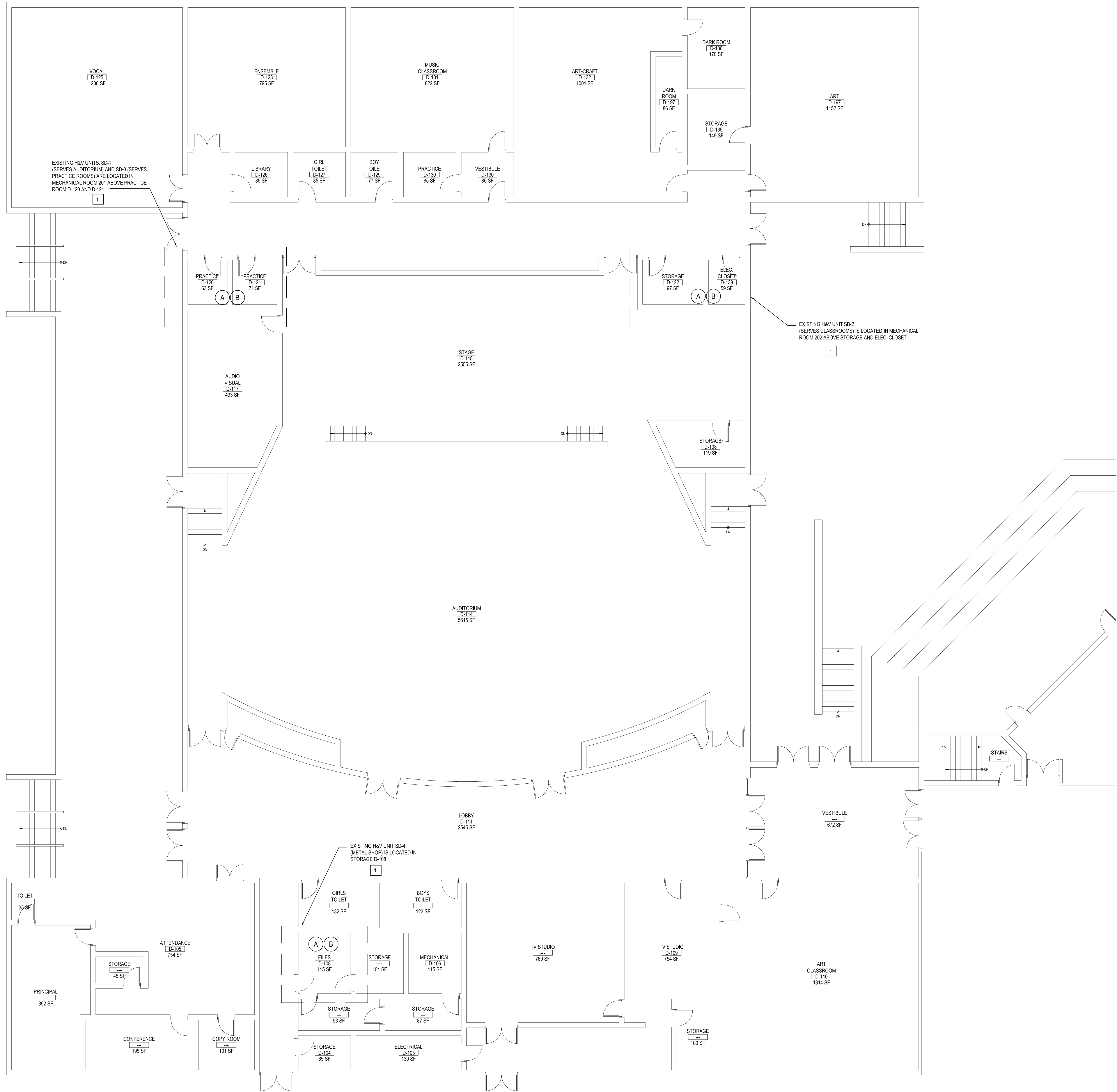
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SED No: 66-04-07-06-0-007-022
DISTRICT: GREENBURGH CSD
PROJECT: PH I - DW CAP IMPROVEMENTS WOODLANDS M.S./H.S.
DWG TITLE: MECHANICAL GROUND AND 2ND FL. PLAN AREA 'C'
SCALE: AS NOTED
DATE: MAY 2022
BID PICK-UP: MAY 27, 2022
FILE No: 21-291

M1.03D



NOTES:

- 1
- V.I.F. EXISTING OAI DAMPER. EXACT LOCATION IN THE MIXING PLENUM OUTSIDE WALL.
 - INSPECT OAI DAMPER BLADES FOR FREE, UNHINDERED MOVEMENT. REMOVE RUST FROM DAMPER BLADES IF NECESSARY.
 - TEST DAMPER WITH ACTUATOR UNPLUGGED, TO ENSURE DAMPER WORKS ON ITS OWN.
 - CHECK SEALS FOR TIGHT CLOSURE, REPLACE WORN SEALS WITH NEW ONES.
 - REPLACE ANY WORN OR RUSTED BUSHING AND PIN.
 - APPLY APPROVED LUBRICANTS TO ALL METALLIC PARTS.
 - REPLACE IF NECESSARY PNEUMATIC ACTUATOR WITH NEW TO MATCH EXISTING.
 - OAI DAMPER TO BE OPENED TO BRING IN MIN. REQUIRED VENTILATION IN ALL SEASONS.
- 2
- CONTROLS SUBCONTRACTOR, UNDER CONTRACT TO MECHANICAL CONTRACTOR

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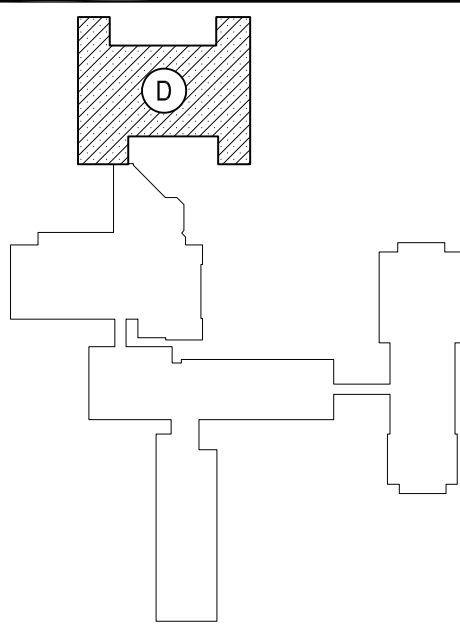
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KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS
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HARTSDALE, NEW YORK - WESTCHESTER COUNTY

PROJECT

DRAWING BY: DS
CHECK BY: DS

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DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP IMPROVEMENTS
WOODLANDS M.S.H.S.

DWG TITLE: MECHANICAL 1ST FLOOR
PLAN - AREA 'D'

SCALE: AS NOTED
DATE: MAY 2022
BID PICK-UP: MAY 27, 2022
FILE No: 21-291

M1.04D

MECHANICAL 1ST FLOOR PLAN-AREA 'D'

SCALE: 1/8" = 1'-0"

