OSSINING UNION FREE SCHOOL DISTRICT
HVAC IMPROVEMENTS

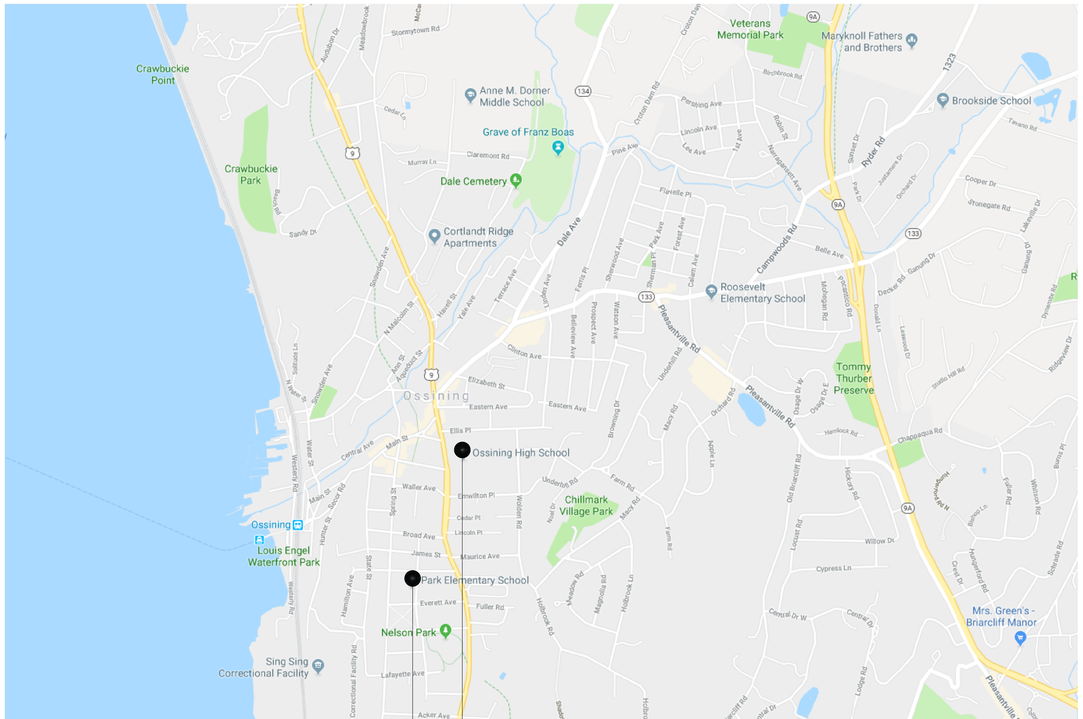
OSSINING HIGH SCHOOL
29 SOUTH HIGHLAND AVENUE
OSSINING NEW YORK 10562
SED #66-14-01-03-0-003-042

PARK EARLY CHILDHOOD CENTER
22 EDWARD STREET
OSSINING NEW YORK 10562
SED #66-14-01-03-0-004-023

ARCHITECT / ENGINEER
CPL
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
PHONE: 800-274-9000

OWNER
OSSINING UNION FREE SCHOOL DISTRICT
400 EXECUTIVE BOULEVARD
OSSINING, NEW YORK 10562
PHONE: 914-941-7700

LOCATION MAP



PARK EARLY CHILDHOOD CENTER
22 EDWARD STREET, OSSINING, NY 10562

OSSINING HIGH SCHOOL
29 SOUTH HIGHLAND AVENUE, OSSINING, NY 10562

NORTH

LIST OF DRAWINGS

GENERAL:
T001 TITLE SHEET

ASBESTOS ABATEMENT:
AA-000 ACM NOTES
PECC/AA100 FIRST FLOOR ACM REMOVAL PLAN
PECC/AA200 SECOND FLOOR ACM REMOVAL PLAN
PECC/AA300 ROOF ACM REMOVAL PLAN
HS/AA100 BASEMENT ACM REMOVAL PLAN

HVAC
H000 HVAC LEGEND AND ABBREVIATIONS
HS-H100 BASEMENT HVAC DEMOLITION AND NEW WORK PLAN
PES-H101 FIRST FLOOR HVAC DEMOLITION PLAN
PES-H102 SECOND FLOOR HVAC DEMOLITION PLAN
PES-H103 ROOF HVAC DEMOLITION PLAN
PES-H201 FIRST FLOOR HVAC NEW WORK PLAN
PES-H202 SECOND FLOOR HVAC NEW WORK PLAN
PES-H203 ROOF HVAC NEW WORK PLAN
H800 HVAC DETAILS
H900 HVAC SCHEDULES

ELECTRICAL
E000 ELECTRICAL LEGEND & NOTES
HS-E100 BASEMENT ELECTRICAL DEMOLITION AND NEW WORK PLAN
PES-E101 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
PES-E102 SECOND FLOOR ELECTRICAL DEMOLITION PLAN
PES-E201 FIRST FLOOR ELECTRICAL NEW WORK PLAN
PES-E202 SECOND FLOOR ELECTRICAL NEW WORK PLAN
PES-E203 ROOF ELECTRICAL NEW WORK PLAN

GENERAL NOTES

THE DESIGN OF THIS PROJECT CONFORMS TO ALL APPLICABLE PROVISIONS OF NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CODE, AND THE BUILDING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

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PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023
OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020		JM

SCALE NONE
SHEET TITLE
TITLE SHEET

PROJECT NUMBER
14428.16/17

T001
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Repl\D Design\06 CAD\AutoCAD\Common\T001 Park UV & HS Weight Rm.dwg
Date last accessed: 11/24/2020 2:31 PM
Date last plotted: 1/6/2021 9:06 AM
Plotted By: James Masula

PRE–ABATEMENT WORK NOTES:

1. THESE DRAWINGS HAVE BEEN PREPARED BY UTILIZING THE OWNERS ORIGINAL CONSTRUCTION DOCUMENTS IN ORDER TO ILLUSTRATE THE EXISTING CONDITIONS OF THE SITE AND STRUCTURES THEREIN. THE CONTRACTOR SHALL BEE RESPONSIBLE FOR ACTUAL VERIFICATION OF ALL EXISTING CONDITIONS IN THE FIELD.
2. THE ASBESTOS CONTAINING MATERIALS, CONFIGURATIONS AND LOCATIONS SHOWN IN THESE DRAWINGS ARE BASED ON THE ASBESTOS CONTAINING MATERIALS TESTING REPORT. REFER TO THE ASBESTOS CONTAINING MATERIALS REPORT FOR FURTHER INFORMATION.
3. 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.
4. THE CONTRACTOR, PRIOR TO BIDDING, SHALL BE RESPONSIBLE TO BECOME COMPLETELY FAMILIAR WITH ALL ASPECTS OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO, ALL DEMOLITION AND CONSTRUCTION WORK AS SHOWN IN THE COMPLETE SET OF DRAWINGS AND IN THE PROJECT MANUAL/SPECIFICATIONS, IN ORDER THAT THE FULL SCOPE OF WORK WHICH MAY ENCOUNTER ASBESTOS CONTAINING MATERIALS IS UNDERSTOOD AND ACCOUNTED FOR BY THE CONTRACTOR IN HIS PROJECT WHETHER OR NOT SHOWN IN THESE DOCUMENTS.

ASBESTOS REMOVAL GENERAL NOTES:

1. ASBESTOS ABATEMENT INDICATED ON THIS DRAWING SHALL BE PERFORMED BY A NYS DEPARTMENT OF LABOR LICENSED ASBESTOS CONTRACTOR, SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES PRIOR TO BID.
2. THE CONTRACTOR SHALL PERFORM ALL CONTRACT WORK IN ACCORDANCE WITH CONTRACT SPECIFICATIONS, NEW YORK STATE DEPARTMENT OF LABOR (NYSDOL) INDUSTRIAL CODE RULE 56, OSHA, NESHAPS, AHEA, NYSDEC AND ALL OTHER APPLICABLE CODES.
3. THE CONTRACTOR SHALL MAINTAIN THE SITE AS NEAT AS POSSIBLE AND ORDERLY DURING THE WORK. ALL LOOSE DEBRIS WHICH MAY BLOW OFF THE SITE SHALL BE COLLECTED AND DISPOSED OF PROPERLY BY THE CONTRACTOR ON A DAILY BASIS AS PART OF THE PROJECT.
4. THE CONTRACTOR SHALL PROVIDE BARRIERS AROUND THE WORK AREAS IN ORDER TO ENSURE SAFE PASSAGE BY ANY PERSON. THESE BARRIERS SHALL ALSO SERVE TO KEEP ALL UNAUTHORIZED PERSONS OUT THE PROJECT AREA FOR THE DURATION OF THE WORK.
5. VARIANCES: CONTRACTOR SHALL PAY FOR AND OBTAIN ANY NECESSARY SITE SPECIFIC VARIANCES.
6. THE CONTRACTOR SHALL MAINTAIN SECURITY IN THE BUILDING AND THE WORK AREAS AT ALL TIMES.
7. PROJECT STAGING, STORAGE, SCHEDULING AND ACCESS SHALL BE COORDINATED WITH AND APPROVED BY THE ARCHITECT AND OWNER PRIOR TO PROCEEDING WITH WORK.
8. SHOULD IT BE NECESSARY, CONTRACTOR SHALL COORDINATE SHUT DOWN AND LOCK OUT OF THE ELECTRICAL POWER WITH OWNER'S POWER WITH OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.
9. ALL TEMPORARY POWER TO THE WORK AREA SHALL BE BROUGHT IN FROM OUTSIDE THE WORK AREA THROUGH A GROUND–FAULT CIRCUIT INTERRUPTER AT THE SOURCE.
10. CONTRACTOR SHALL COORDINATE HOOKUP OF WATER SERVICE FOR DECONTAMINATION PURPOSED WITH OWNERS REPRESENTATIVE. WATER FOR THE DECONTAMINATION UNITS IS AVAILABLE FROM THE OWNER.
11. THE OWNER OR OWNER'S REPRESENTATIVE IS RESPONSIBLE TO CONTRACT FOR NYSDOL PROJECTS MONITORING/AIR SAMPLING TECHNICIAN SERVICES AS REQUIRED.
12. CONTRACTOR TO PROVED A COPY OF MSD'S FOR ANY CHEMICAL AGENTS TO BE USED DURING THE ASBESTOS ABATEMENT TO THE PROJECT MONITOR AD THE OWNER'S REPRESENTATIVE.
13. CONTRACTOR SHALL REQUEST AND RECEIVE PROJECT MONITOR AND OWNER'S REPRESENTATIVE APPROVAL OF ALL WORK BEFORE ANY ABATEMENT IS UNDERTAKEN.
14. UNDER NO CIRCUMSTANCES SHALL CONTAMINATED WASTE WATER BE FILTERED THOUGH A SYSTEM WITH AT LEAST A 5.0 MICRON PARTICLE SIZE COLLECTION CAPABILITY.
15. DRAWINGS ATTEMPT TO INDICATE THE GENERAL SCOPE OF EXISTING CONDITIONS AND ITEMS EFFECTED BY THE ABATEMENT WORK. CONTRACTOR SHALL EXAMINE THE WORK AREA PRIOR TO BID AND SHALL INCLUDE FIELD VARIATIONS FROM THOSE SHOWN WITH IN THE GENERAL INTENT OF THE WORK.
16. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ASBESTOS CONTAINING MATERIALS CONTAINED WITHIN THE PROJECT AND ASSOCIATED WITH ALL PROJECT WORK, IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES, REGULATIONS AND ALL REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
17. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ASBESTOS CONTAINING MATERIALS CONTAINED WITHIN THE PROJECT AND ASSOCIATED WITH ALL PROJECT WORK, IN THE MOST EFFICIENT AND COST EFFECTIVE METHOD POSSIBLE, WHICH ALSO COMPLIES WITH THE REQUIREMENTS LISTED ABOVE.

POST–ABATEMENT WORK NOTES:

1. PROVIDE ALL APPLICABLE CODE RULE 56 PROCEDURES, CLEAN UP, AND ADDITIONAL TESTING AS REQUIRED.
2. PRIOR TO ABATEMENT, ALL CONTRACTORS WILL SURVEY EXISTING CONDITIONS IN THE ABATEMENT AND GENERAL WORK AREAS. ITEMS/MATERIALS/ETC. DAMAGED, OR NON–FUNCTIONAL SHALL BE LISTED, NOTED, PHOTOGRAPHED AND REVIEWED WITH THE PROJECT INSPECTOR. ALL OTHER ITEMS/MATERIALS SHALL BE REVIEWED WITH THE PROJECT INSPECTOR. ALL OTHER ITEMS/MATERIALS SHALL BE ASSUMED TO BE IN GOD CONDITION AND GOOD WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE ABETMENT CONTRACTOR TO MAINTAIN ALL MATERIALS, ITEMS, EQUIPMENT, SYSTEMS, ETC. IN ITS ORIGINAL CONDITION AND RETURN TO OWNER/GC, ETC. IN SAME CONDITION AT THE END OF THIS CONTRACT.
3. REMOVE ALL TEMPORARY ENCLOSURES, BARRIERS, ETC. REINSTALL ITEMS/WORK PREVIOUSLY REMOVE, ALL TAPE AND ADHESIVE RESIDUALS TO BE REMOVED. TEST AND REPAIR.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE AGAINST DAMAGE TO THE EXISTING WORK TO REMAIN IN PLACE. ANY DAMAGE TO SUCH WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ARCHITECT AND OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
5. AT COMPLETION OF THE ABATEMENT WORK, A CONDITION SURVEY SHALL BE DON BY ALL CONTRACTORS AND PROJECT INSPECTOR (SEE NOTE #2). ANY VARIATION (I.E. DAMAGE BY THE CONTRACTOR), AND OTHERWISE NOT INCLUDED AS PART OF THE RECONSTRUCTION WORK, SHALL BE REPAIRED/RESTORED BY THE ABATEMENT CONTRACTOR.
6. THE CONTRACTOR SHALL, UPON COMPLETION OF THE REMOVAL, PROVIDE WRITTEN DOCUMENTATION (INCLUDING ALL APPROPRIATE THIRD PARTY TESTING RESULTS) THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL ASBESTOS CONTAINING MATERIALS.
7. THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL ASBESTOS CONTAINING MATERIALS REMOVED FROM THE SITE, INCLUDING THE COMPOSITION AND VOLUMES OF DISPOSED MATERIALS AND THE FINAL DISPOSAL SITE(S).

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OSSINING UNION FREE SCHOOL DISTRICT

HVAC IMPROVEMENTS

PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023

OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
08/28/20	JP	RL

SCALE AS NOTED

SHEET TITLE

ACM NOTES

PROJECT NUMBER

14428.16

NOTES

AA000

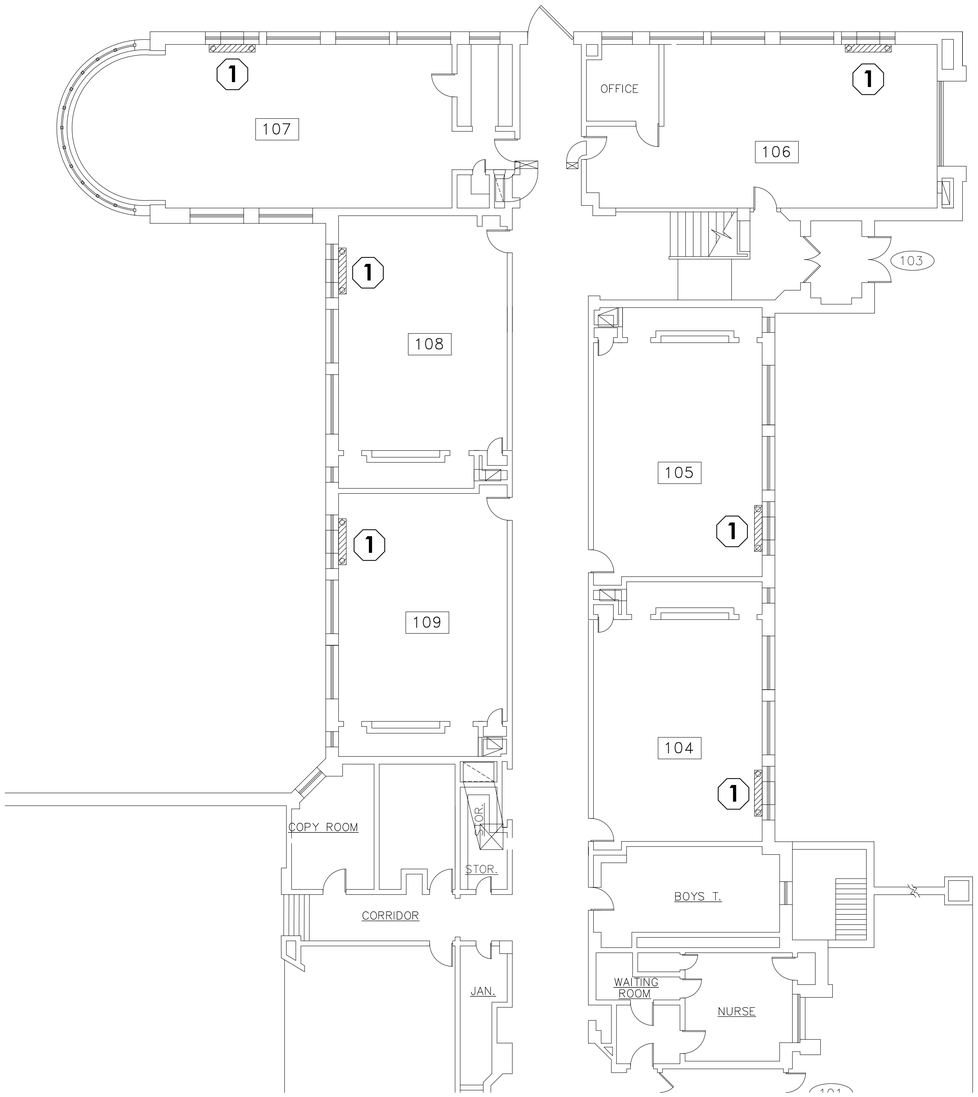
DRAWING NUMBER

ACM LEGEND:

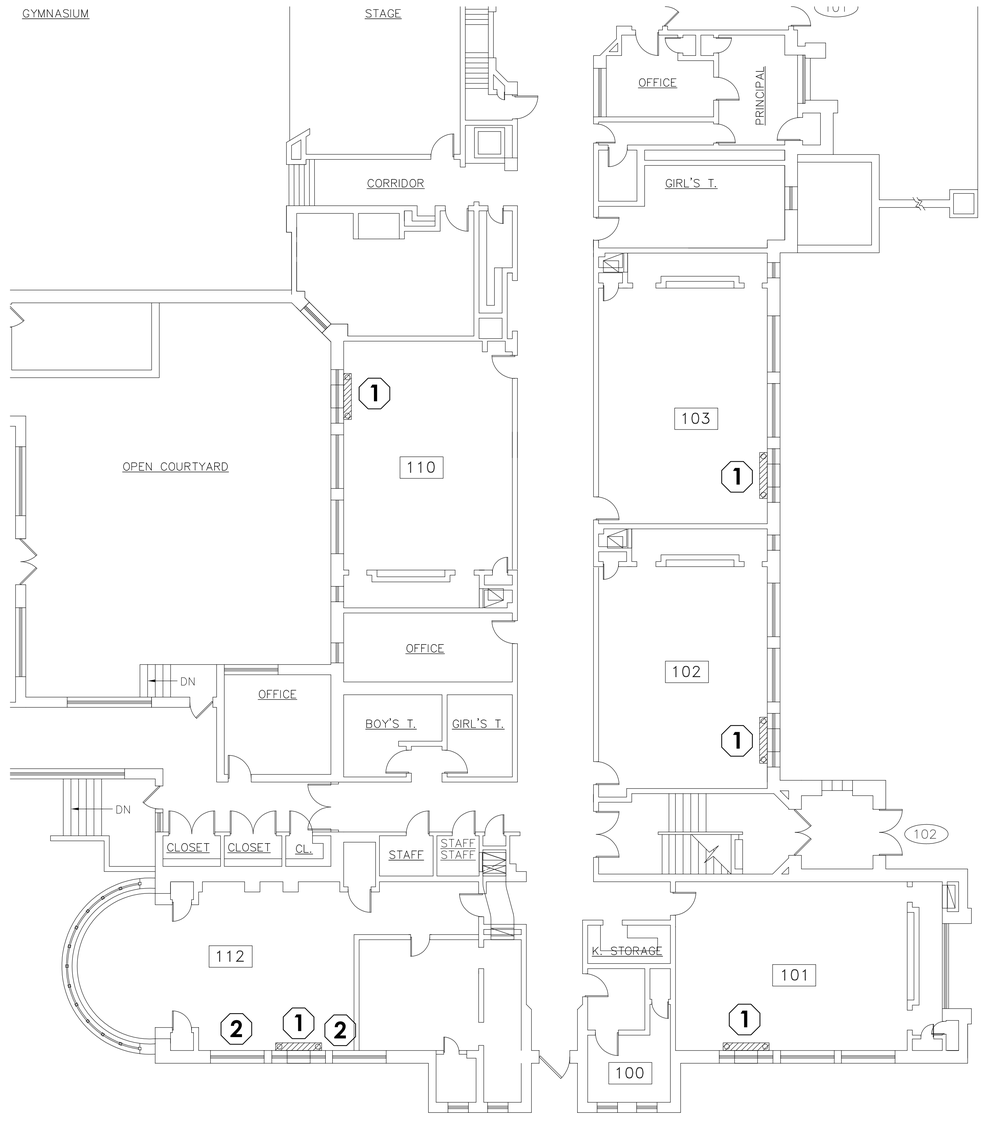
1. REMOVE AND DISPOSE OF PRESUMED ASBESTOS CONTAINING PIPE INSULATION AND MUDDED JOINT PACKING ABOVE NON-ASBESTSOS PLASTER CEILING.

2. REMOVE AND DISPOSE OF ASBESTOS CONTAINING INSULATION SHEET FROM WOOD CABINET HEATERS.

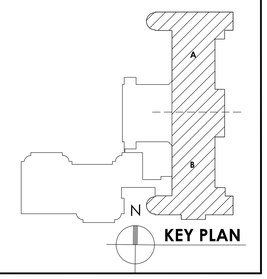
SEE SPECIFICATION SECTION #3.17 FOR DETAILS.



1 H101 **FIRST FLOOR ACM REMOVAL PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 H101 **FIRST FLOOR ACM REMOVAL PLAN - AREA B**
SCALE: 1/8" = 1'-0"



KEY PLAN

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08/28/20	JP	RL

SCALE AS NOTED

SHEET TITLE
FIRST FLOOR ACM REMOVAL PLAN

PROJECT NUMBER
14428.16

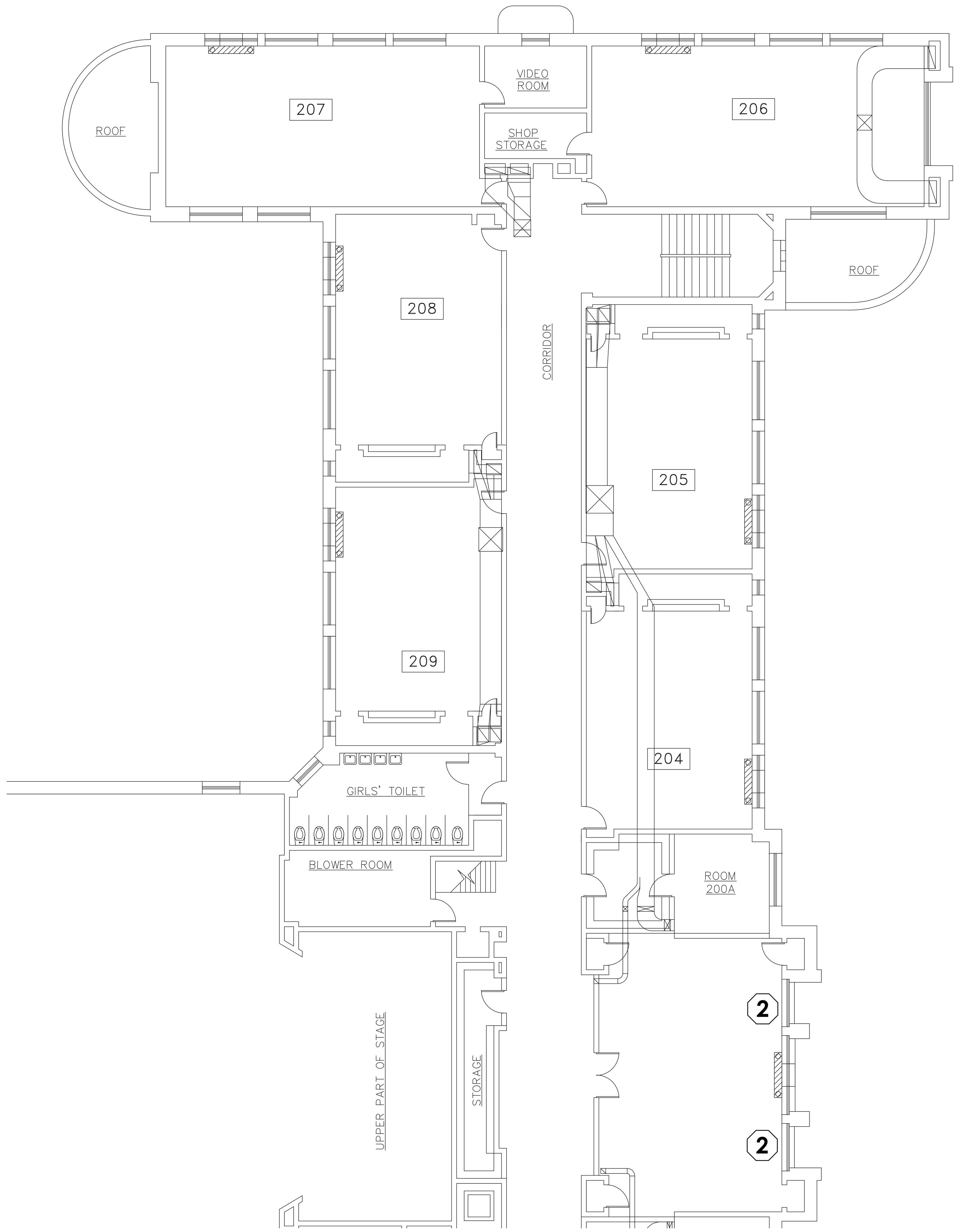
PECC
AA100
DRAWING NUMBER

ACM LEGEND:

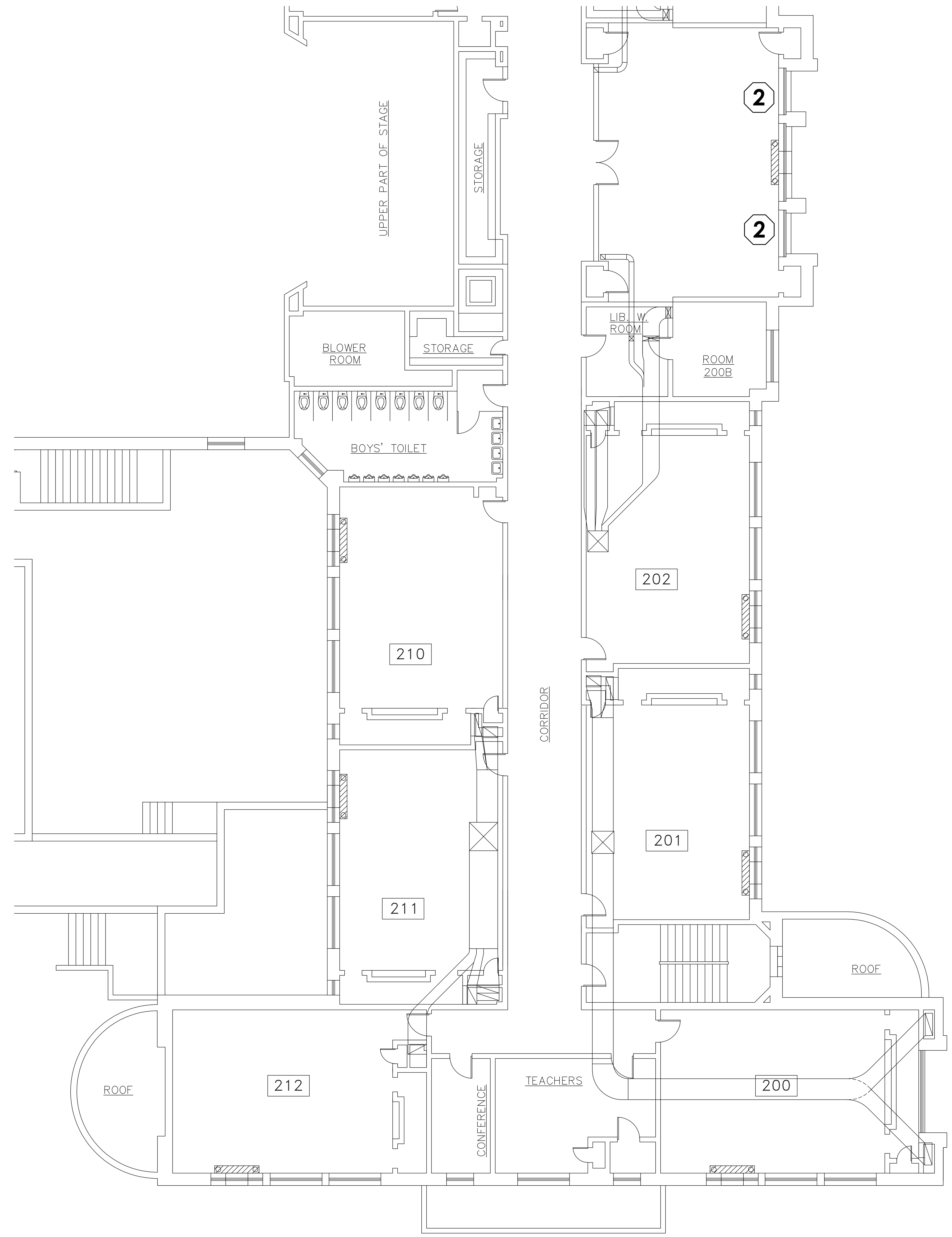
(1) REMOVE AND DISPOSE OF PRESUMED ASBESTOS CONTAINING PIPE INSULATION AND MUDDED JOINT PACKING ABOVE NON-ASBESTSOS PLASTER CEILING.

(2) REMOVE AND DISPOSE OF ASBESTOS CONTAINING INSULATION SHEET FROM WOOD CABINET HEATERS.

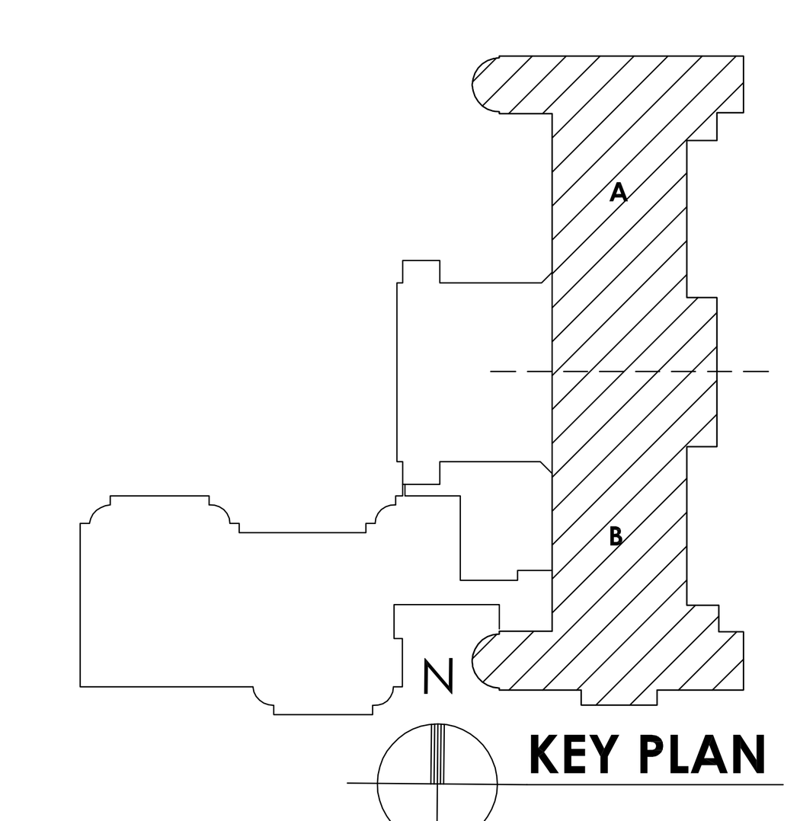
SEE SPECIFICATION SECTION #3.17 FOR DETAILS.



1 H102 **SECOND FLOOR ACM REMOVAL PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 H102 **SECOND FLOOR ACM REMOVAL PLAN - AREA B**
SCALE: 1/8" = 1'-0"



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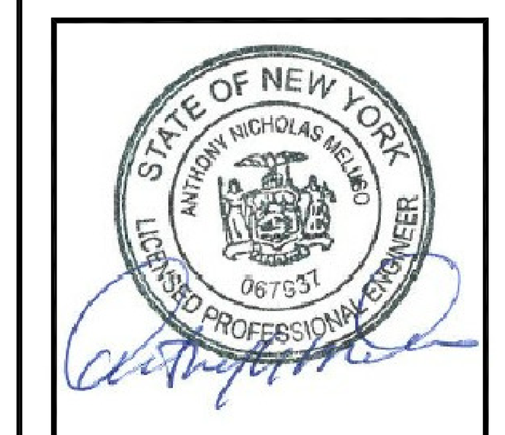

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PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023
OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
08/28/20	JP	RL

SCALE AS NOTED

SHEET TITLE
SECOND FLOOR ACM REMOVAL PLAN

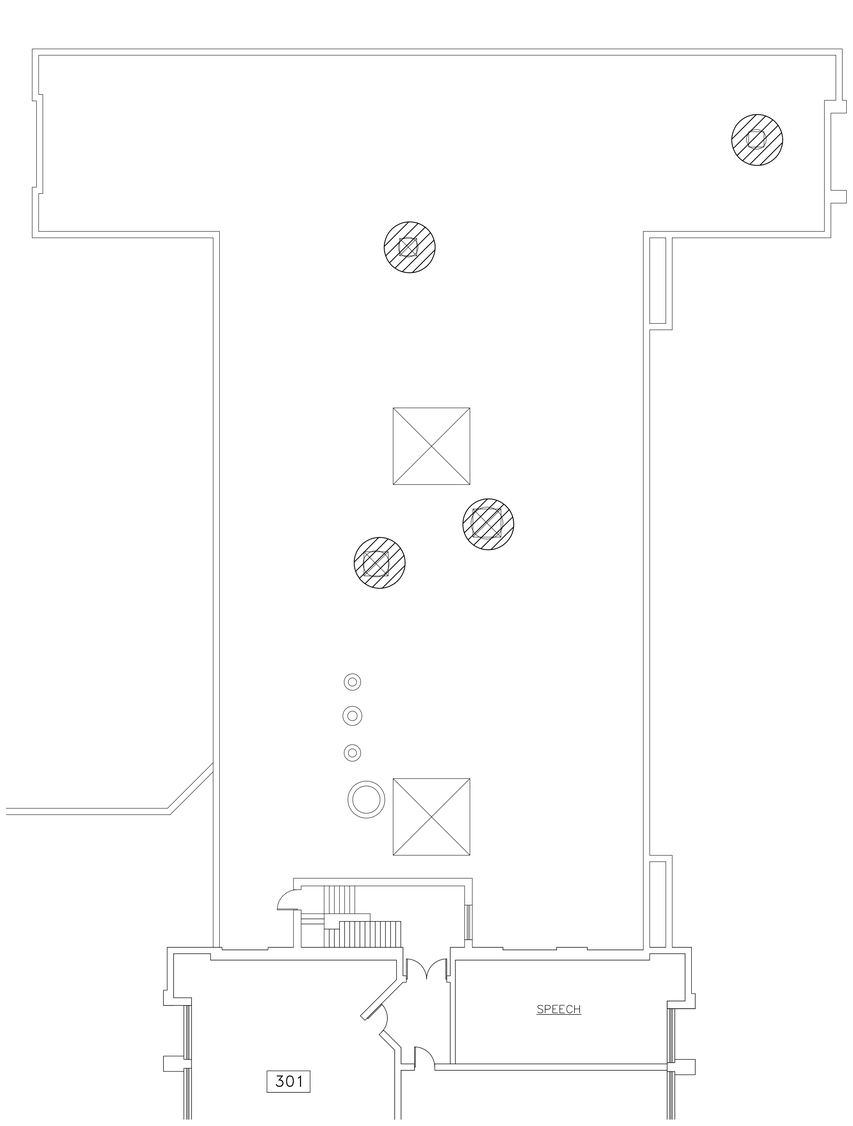
PROJECT NUMBER
14428.16

PECC
AA200
DRAWING NUMBER

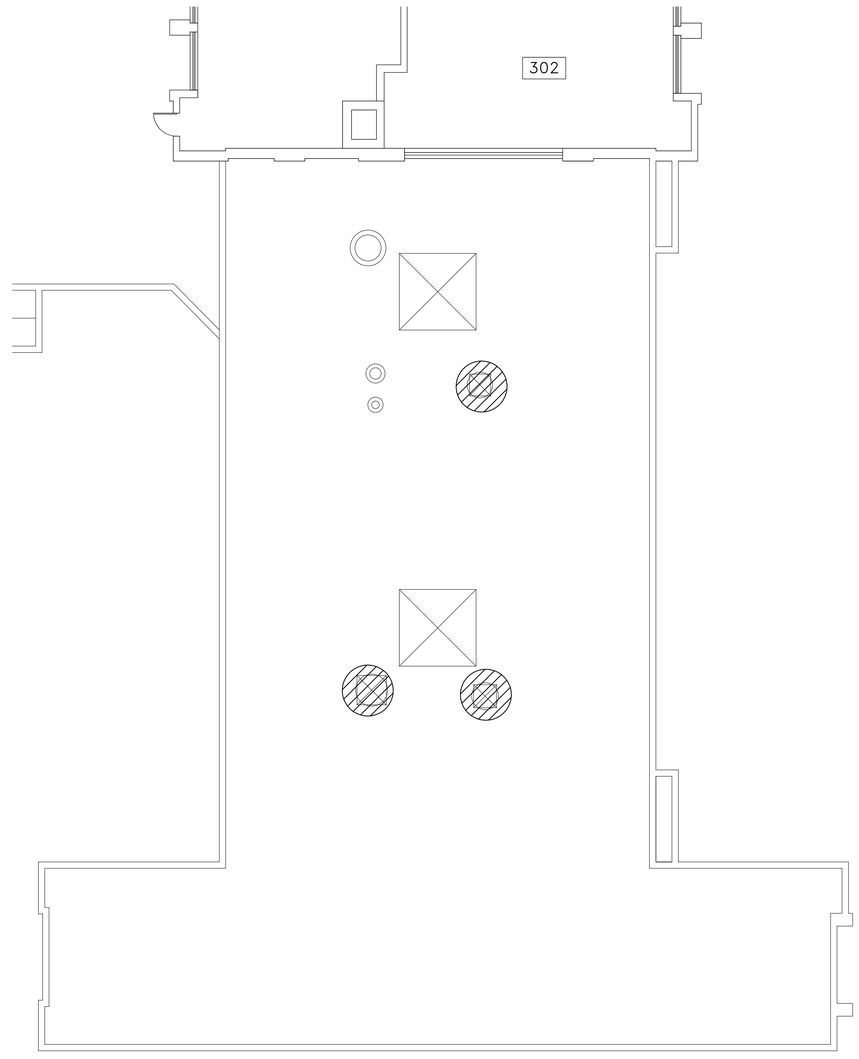
ACM LEGEND:

REMOVE AND DISPOSE OF PRESUMED ASBESTOS CONTAINING ROOFING MATERIALS.

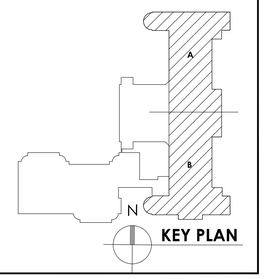
SEE SPECIFICATION SECTION #3.17 FOR DETAILS.



1 H103 **ROOF ACM REMOVAL PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 H103 **ROOF ACM REMVOAL PLAN - AREA B**
SCALE: 1/8" = 1'-0"



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SCALE AS NOTED

SHEET TITLE
ROOF ACM
REMOVAL PLAN

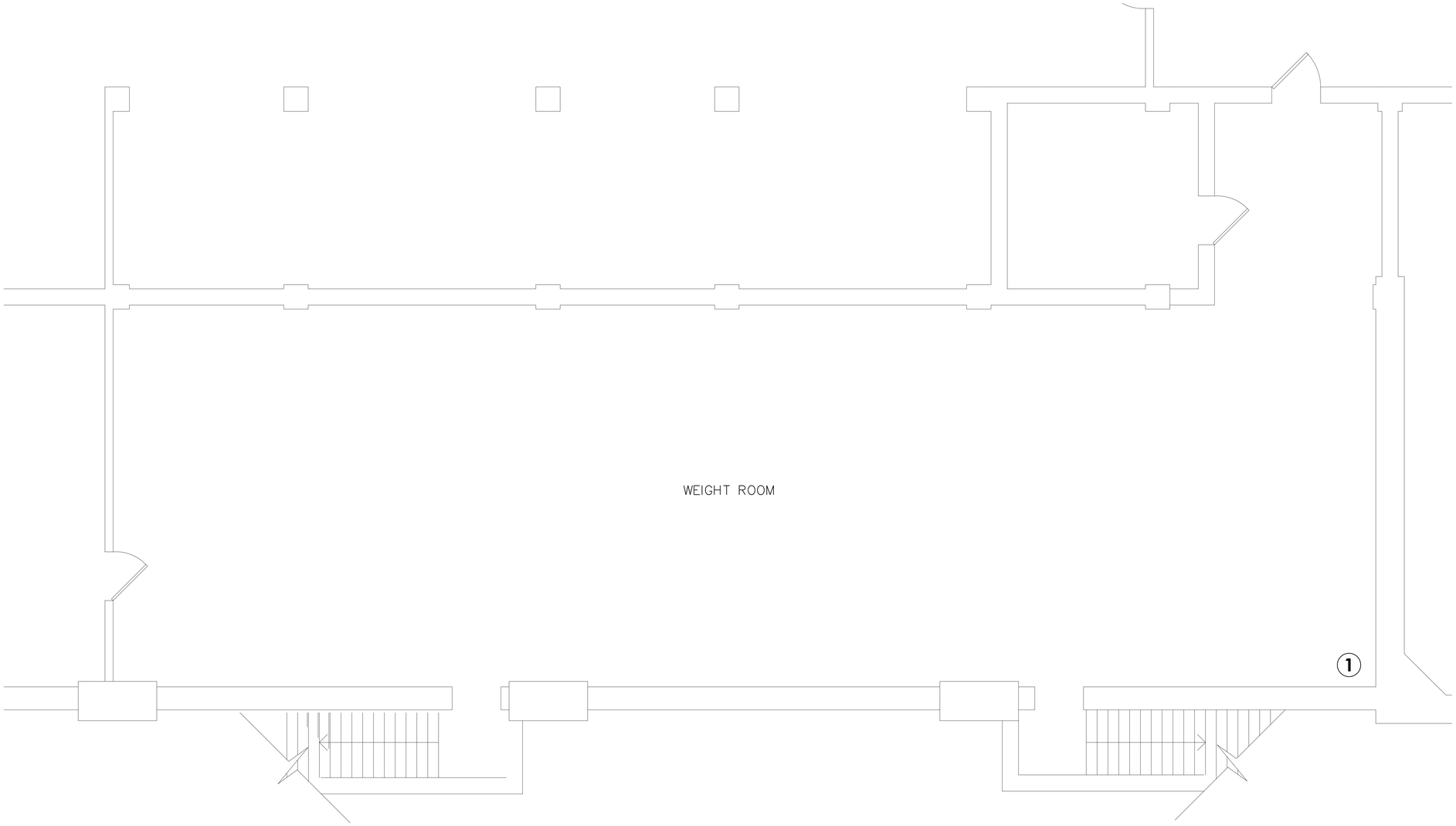
PROJECT NUMBER
14428.16

PECC
AA300
DRAWING NUMBER

ACM LEGEND:

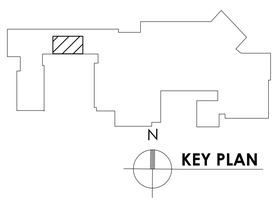
(1) REMOVE AND DISPOSE OF ASBESTOS CONTAINING PIPE INSULATIONS AND MUDDED JOINT PACKING (MJP).

SEE SPECIFICATION SECTION #3.17 FOR DETAILS.



1 **BASEMENT ACM REMOVAL PLAN**

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



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DATE	DRAWN	CHECKED
08/28/20	JP	RL

SCALE AS NOTED

SHEET TITLE
BASEMENT ACM REMOVAL PLAN

PROJECT NUMBER
14428.16

HS
AA100
DRAWING NUMBER

HVAC SYMBOLS LIST

SYMBOL	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER
ACC	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BBD	BOILER BLOW DOWN
BD	BACKDRAFT DAMPER
CA	COMPRESSED AIR
CD	COOLING COIL CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER
D	DRAIN
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ERHC	ELECTRIC REHEAT COIL
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
F&T	FLOAT AND THERMOSTATIC TRAP
FCU	FAN-COIL UNIT
FPM	FEET PER MINUTE
FT	FIN-TUBE
GC	GENERAL CONTRACTOR
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HC	HVAC CONTRACTOR
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HP	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION
LPC	LOW PRESSURE CONDENSATE
LPG	LIQUEFIED PROPANE GAS
LPS	LOW PRESSURE STEAM
MBH	1,000 BTU/HR
MC	MECHANICAL CONTRACTOR
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MRD	MONOFLO FITTING DOWN – HHWR
MSD	MONOFLO FITTING DOWN – HHWS
MUW	MAKE-UP WATER
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PHWR	PRIMARY HEATING HOT WATER RETURN
PHWS	PRIMARY HEATING HOT WATER SUPPLY
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RHC	HOT WATER REHEAT COIL
RLL	REFRIGERANT LIQUID PIPE
RSL	REFRIGERANT SUCTION PIPE
RTU	ROOFTOP UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SHWR	SECONDARY HEATING HOT WATER RETURN
SHWS	SECONDARY HEATING HOT WATER SUPPLY
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)
SSO	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)
TC	TEMPERATURE CONTROLS CONTRACTOR
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VENT
WAHP	WATER-TO-AIR HEAT PUMP
WWHP	WATER-TO-WATER HEAT PUMP

SYMBOL	DESCRIPTION
	CONNECTION - TOP
	CONNECTION - BOTTOM
	DIRECTION OF FLOW
	REDUCER
	CAP OR PLUG
	ELBOW DOWN
	ELBOW UP
	TEE OUTLET - UP
FC	TEE OUTLET - DOWN
	UNION
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	STRAINER
	STRAINER WITH BLOW-DOWN
	BUTTERFLY VALVE
	BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY
	BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR
	GLOBE VALVE
	CHECK VALVE
	TRIPLE DUTY VALVE
	GAS COCK, PLUG VALVE
U/C	UNDERCUT DOOR 1"
L Φ	LOUVERED DOOR W/ SQ. FT. OF FREE AREA
M	AIR VENT - MANUAL
A	AIR VENT - AUTOMATIC
	FLANGE
	CONTROL/SOLENOIND VALVE, ELECTRIC 2-WAY
	CONTROL VALVE, ELECTRIC 3-WAY
	CONTROL VALVE, PNEUMATIC 2-WAY
	CONTROL VALVE, PNEUMATIC 3-WAY
	RELIEF / SAFETY VALVE
	PRESSURE REDUCING VALVE
V	VACUUM BREAKER
	FLEXIBLE PIPE CONNECTOR
	EXPANSION COMPENSATOR W/ GUIDES
	EXPANSION JOINT
	PIPE ANCHOR
	PIPE GUIDE
TT	THERMOSTATIC TRAP
FT	FLOAT & THERMOSTATIC TRAP
BT	BUCKET TRAP
TD	THERMODYNAMIC TRAP
	THERMOMETER
	WELL
	PRESSURE GAUGE
	STEAM PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PNEUMATIC (CONTROL) TUBING
	BUTTERFLY VALVE WITH PNEUMATIC AND MANUAL OPERATORS
XX	PIPING
XX	PIPING BELOW GRADE
	BASE MOUNTED PUMP
	IN-LINE PUMP
	AIR TERMINAL UNIT WITH REHEAT COIL AND SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH REHEAT COIL
	AIR TERMINAL UNIT
W/W ENCL.	WALL TO WALL FIN TUBE ENCLOSURE

SYMBOL	DESCRIPTION
(DBL)	DOUBLE WALL LINED DUCT
20/10	DUCT SECTION - SUPPLY
20/10	DUCT SECTION - RETURN/EXHAUST
A"	DUCT SECTION - ROUND DUCT IN INCHES
AXB FO	DUCT SECTION - FLAT OVAL DUCT IN INCHES
	ACOUSTIC THERMAL LINING
	FLEXIBLE DUCTWORK
FC	FLEXIBLE CONNECTION
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE AND SMOKE DAMPER
VD	VOLUME DAMPER
	DAMPER CONTROL, PARALLEL BLADE
	DAMPER CONTROL, OPPOSED BLADE
AAD	AUTOMATIC AIR DAMPER
BDD	BACK DRAFT DAMPER
BG	BLAST GATE
20/10, 12X10, 10/20	AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)
	MULTI-BLADE AIR EXTRACTOR
	TURNING VANES
	EXISTING WORK TO BE REMOVED (HATCHED)
P	POINT OF CONNECTION
R	POINT OF DISCONNECTION
	AIR FLOW SENSOR
	FILTER
	TRANSITION SQUARE TO ROUND
	HUMIDIFIER DISPERSION TUBE
RISE	RISE IN DUCT
DROP	DROP IN DUCT
	SQUARE CEILING DIFFUSER (4 WAY)
	ROUND CEILING DIFFUSER
	SQUARE OR RECTANGULAR CEILING GRILLE
	SUPPLY REGISTER, RETURN OR EXHAUST GRILLE
1-WAY 2-WAY 3-WAY	SUPPLY DIFFUSER, 1-WAY, 2-WAY, 3-WAY
8"Ø, D-3, 300 CFM	CEILING DIFFUSER WITH NECK SIZE, TYPE, & CFM
10"x10", G-3, 300 CFM	CEILING RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
10"x8", R-2, 300 CFM	SUPPLY REGISTER WITH SIZE, TYPE, & CFM
10"x8", G-2, 300 CFM	RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
	AIR FLOW
L1	ACOUSTIC/THERMAL DUCTWORK LINING - 1 INCH THICK
L2	ACOUSTIC/THERMAL DUCTWORK LINING - 2 INCH THICK
PL1	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 1 INCH THICK
PL2	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 2 INCH THICK

SYMBOL	DESCRIPTION
	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
	SUPPLY AIR TAKEOFFS
	SUPPLY AIR TAKEOFFS
	SUPPLY AIR TAKEOFFS
	SUPPLY/RETURN EXHAUST AIR TAKEOFFS W/ REGISTER/GRILLE/ DIFFUSER
	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
	LONG RADIUS 90° ELBOW R/W=1.5
	LONG RADIUS 45° ELBOW R/W=1.5
	90° ELBOW WITH TURNING VANES
	90 VERTICAL SPLIT OFF (PLAN VIEW)
	DUCT TURNING UP OR DOWN
U MAX MIN	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE MAX = MAXIMUM CFM MIN = MINIMUM CFM
U GPM MAX	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE GPM = GALLONS PER MIN MAX = MAXIMUM GPM
U MAX MIN FAN	FAN POWERED AIR TERMINAL UNIT U - UNIT TYPE MAX = PRIMARY MAX CFM MIN = PRIMARY MIN CFM FAN = FAN CFM
TYPE, COIL SIZE, CLNG GPM, HTNG GPM	TYPE = VALANCE TYPE COIL SIZE = COIL LENGTH CLNG GPM = COOLING GPM HTNG GPM = HEATING GPM
X / XX	X = DIFFUSER OR GRILL TYPE XX = AIR FLOW VALUE (CFM)

SYMBOL	DESCRIPTION
	ELECTRIC/PNEUMATIC SWITCH OR RELAY
	PNEUMATIC/ELECTRIC SWITCH OR RELAY
CT	CURRENT TRANSDUCER
	OPEN/CLOSED
	START/STOP
	ENABLE/DISABLE
T	TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)
H	HUMIDITY SENSOR (DUCT MOUNTED)
F	FLOW TRANSMITTER
P	PRESSURE TRANSMITTER
DP	DIFFERENTIAL PRESSURE TRANSMITTER
E/P	ELECTRIC/PNEUMATIC TRANSDUCER
E/E	ELECTRIC/ELECTRONIC TRANSDUCER
	DUCT SMOKE DETECTOR
T	SPACE THERMOSTAT
T	SPACE TEMPERATURE SENSOR
CO2	SPACE CARBON DIOXIDE SENSOR
CH4	SPACE NATURAL GAS SENSOR
CO	SPACE CARBON MONOXIDE SENSOR
G	SPACE SENSOR WITH GUARD
H	SPACE HUMIDISTAT
FS	WATER FLOW SENSOR
	PNEUMATIC ACTUATOR
	ELECTRIC ACTUATOR
VSD VFD	VARIABLE SPEED / FREQUENCY DRIVE
C	COOLING COIL
H	HEATING COIL
G	GAS FURNACE
H	HUMIDIFIER
A	ALARM
S	STATUS
FS	FLOW SWITCH
ΔP	DIFFERENTIAL STATIC PRESSURE SWITCH
R	RELAY
	PRESSURE GAUGE
FZ	FREEZE-STAT
DI	DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)
DO	DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AO	ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AI	ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)
	ELECTRICAL INTERFACE
SF	SPEED FEED BACK
ES	END SWITCH
PT	POSITION FEEDBACK
	TRAVERSE AVERAGING SENSOR
	PROBE SENSOR
	FREEZE STAT SENSOR

SYMBOLS GENERAL NOTES:

1) VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.

HVAC CONTRACTOR GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE EXISTING CEILINGS SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.

C. DEMOLITION DRAWINGS SHOW MAJOR EQUIPMENT, PIPING, AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROLS, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, AND PNEUMATIC CONTROL TUBING TO BE DISCONNECTED AND REMOVED, BUT IS THE REQUIREMENT UNDER THIS CONTRACT. NO EQUIPMENT, PIPING, OR DUCTWORK SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

D. ALL EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE DISCONNECTED AND REMOVED FROM THE EXISTING SYSTEMS AND DELIVERED (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.

E. BEFORE DISCONNECTING, REMOVING, OR SERVICING ANY AIR CONDITIONING EQUIPMENT OR SYSTEMS CONTAINING REFRIGERANTS, THE EQUIPMENT OR SYSTEMS SHALL BE EVACUATED OF ALL REFRIGERANT PER THE LATEST ADOPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE CERTIFIED BY AN EPA APPROVED CERTIFYING AGENCY OR ORGANIZATION.

F. ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWING FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.

G. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS AFTER DEMOLITION WORK. IN ADDITION, ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC. PATCHING AND FINISHING SHALL MATCH EXISTING CONSTRUCTION INCLUDING FIRE RATINGS. PROVIDE LINTELS PER LINTEL SCHEDULE.

H. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS AND DRAINS IN THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR WHICH WOULD PREVENT PROPER VENTING OR OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEM TO FACILITATE COMPLETE DRAINING OF THE SYSTEM .

I. PROVIDE THERMAL EXPANSION COMPENSATORS AND THERMAL EXPANSION LOOPS IN PIPING SYSTEM PER INDUSTRY STANDARDS.

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PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023
OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	KAB	JJM

SCALE AS NOTED

SHEET TITLE
HVAC LEGEND AND ABBREVIATIONS

PROJECT NUMBER
14428.16/17

H000
DRAWING NUMBER

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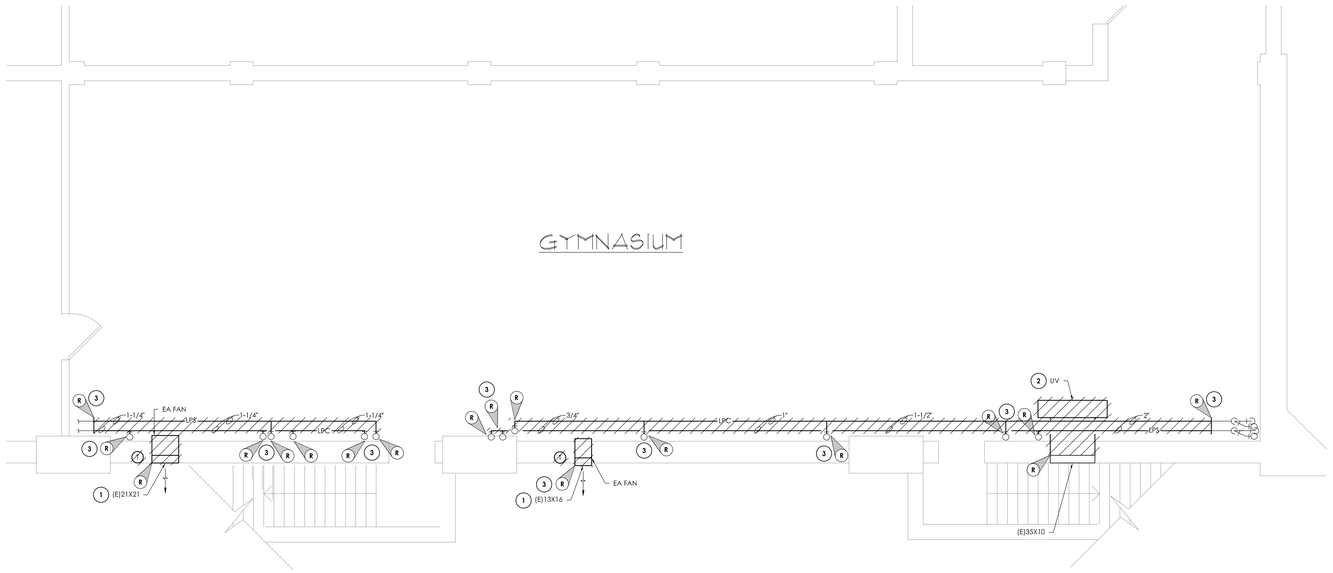
Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Repl\D Design\06 CAD\AutoCAD\MECH\HVH000.dwg Plotted By: James Masula
Date last accessed: 9/3/2020 4:52 PM Date last plotted: 1/6/2021 8:24 AM

GENERAL NOTES:

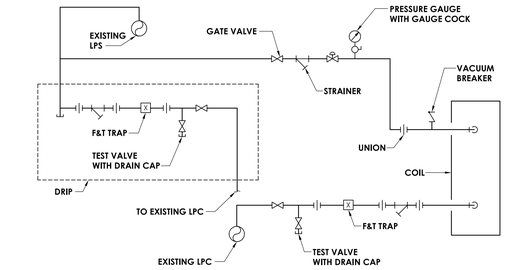
1. FIELD VERIFY ALL PIPING SIZES.

KEY NOTES:

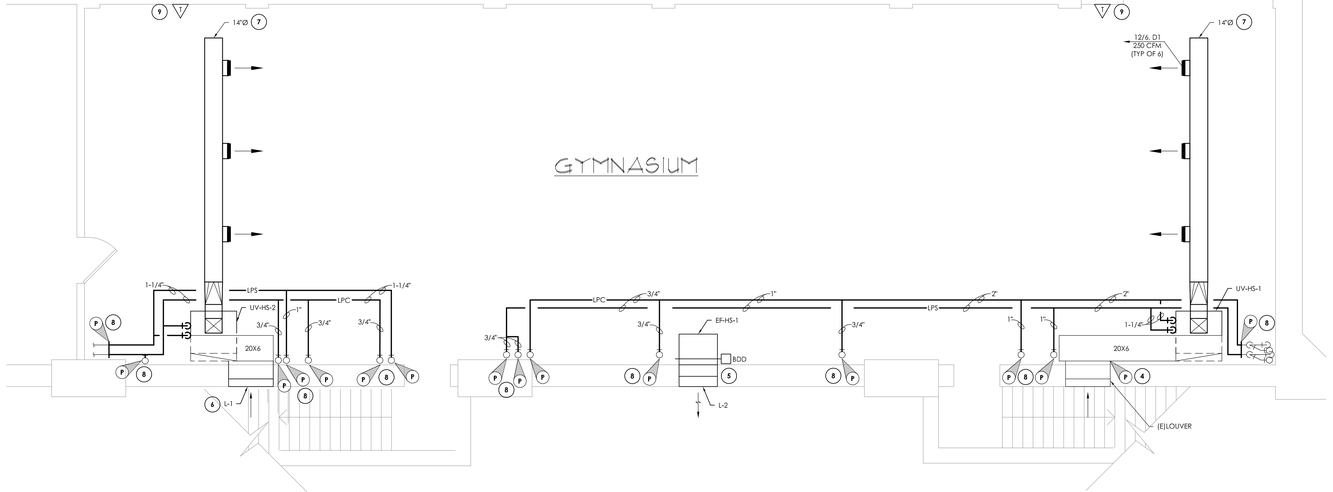
1. REMOVE EXISTING EXHAUST FAN, CONTROLS AND ASSOCIATED LOUVER. PREPARE OPENINGS FOR NEW LOUVER.
2. REMOVE EXISTING UNIT VENTILATOR, STEAM AND CONDENSATE PIPING, CONTROLS AND DUCTWORK. PREPARE FLOOR FOR PATCHING.
3. REMOVE EXISTING STEAM AND CONDENSATE MAINS TO POINTS INDICATED. PREPARE ALL REMAINING RISERS AND PIPES FOR NEW CONNECTION.
4. CONNECT NEW 20"X4" PLENUM DUCTWORK TO EXISTING OUTDOOR AIR LOUVER. MAKE PROVISIONS FOR PROPER TRANSITION.
5. PROVIDE NEW 30"X30" LOUVER. EXPAND OPENING AND PROVIDE NEW LINTEL TO ACCOMMODATE NEW RELIEF FAN. CONNECT TO EXISTING ANDOVER BMS. INTERLOCK WITH UV OPERATIONS.
6. PROVIDE NEW 35"X10" LOUVER. EXPAND OPENING AND PROVIDE NEW LINTEL ACCOMMODATE NEW OUTDOOR AIR DUCTWORK CONNECTION. REMOVE OR RELOCATE CHAIN LINK FENCING AS REQUIRED TO INSTALL THE NEW LOUVER. RE-INSTALL AFTER THE WORK IS COMPLETED.
7. ROLL 14"Ø DUCTWORK UP INTO JOIST SPACE. COORDINATE WITH EXISTING LIGHTING AND OTHER UTILITIES. POINT SIDE MOUNTED GRILLES DOWN 45° TOWARDS THE FLOOR. ROUTE DUCT IN BAYS WITHOUT LIGHTING.
8. CONNECT NEW STEAM AND CONDENSATE MAINS TO EXISTING MAINS AND RISERS AT POINTS INDICATED. ROUTE NEW MAINS AT THE SAME ELEVATION AS THE PIPING THAT WAS REMOVED. MAINTAIN ALL REQUIRED PIPING PITCHES. COORDINATE PIPING MAINS WITH LIGHTING AND NEW EQUIPMENT. RE-INSULATE ALL PIPING PER SPECIFICATIONS.
9. CONNECT NEW UNIT CONTROLS TO EXISTING ANDOVER CONTROLS SYSTEM.



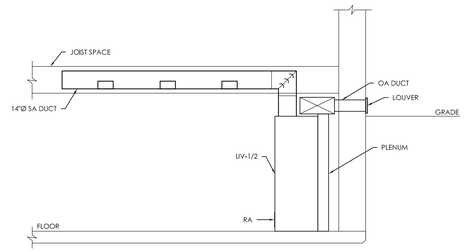
1 H100 BASEMENT HVAC DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



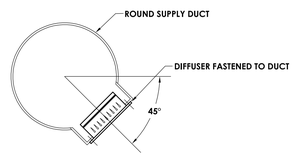
3 H100 STEAM COIL PIPING DETAIL
NOT TO SCALE



2 H100 BASEMENT HVAC NEW WORK PLAN
SCALE: 1/4" = 1'-0"



4 H100 UNIT VENTILATOR SECTION
SCALE: NOT TO SCALE



5 H100 DIFFUSER DETAIL
NOT TO SCALE

N

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DATE	DRAWN	CHECKED
8/28/2020	KAB	JJM

SCALE AS NOTED

SHEET TITLE
BASEMENT
HVAC DEMOLITION AND
NEW WORK PLAN

PROJECT NUMBER
14428.16/17

HS
H100
DRAWING NUMBER

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Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Repl\D Design\06 CAD\AutoCAD\MECH\H1 \HS - H100.dwg Date last accessed: 12/10/2020 12:39 PM Date last plotted: 1/6/2021 8:26 AM Plotted By: James Masula

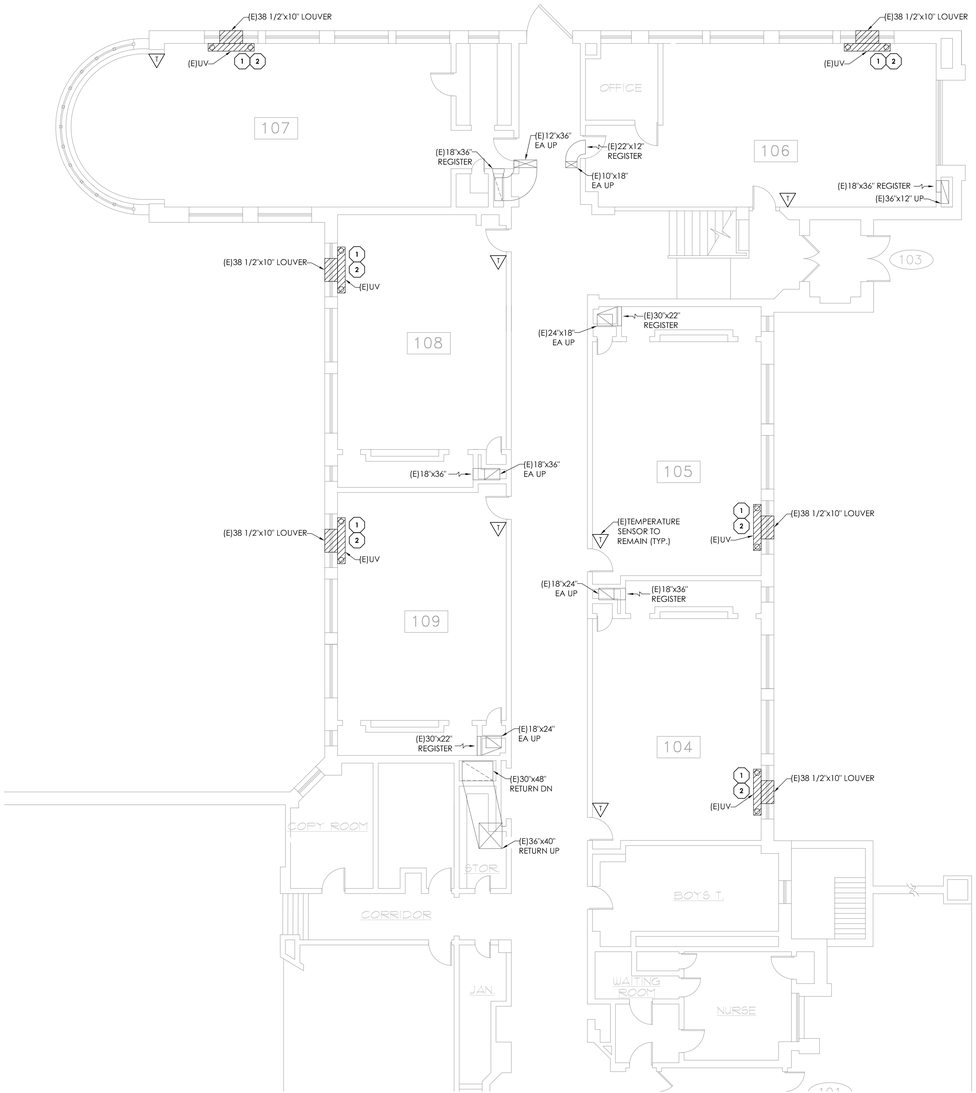
GENERAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS TO PERFORM ANY DEMOLITION OR NEW WORK. ANY EXISTING CEILINGS REQUIRING REMOVAL TO COMPLETE WORK SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE AND BE REUSED. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIALS SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.

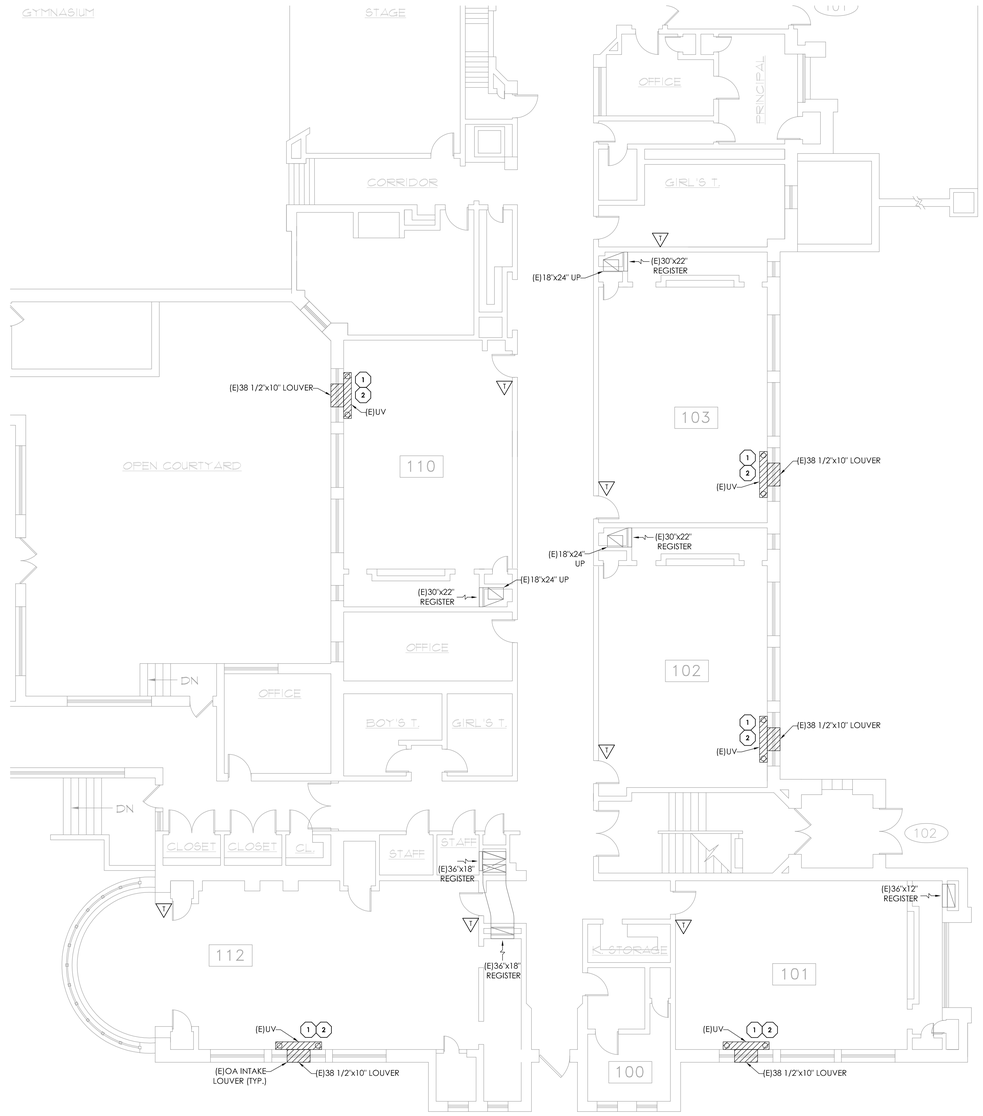
KEY NOTES:

(1) REMOVE EXISTING UNIT VENTILATOR, WALL LOUVER, SLEEVE, GRILLE, AND DUCTWORK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED ACCESSORIES. PREPARE WALL OPENING FOR NEW LOUVER. EXTRACT AND RETAIN EXISTING CONTROLS FOR RE-INSTALLATION.

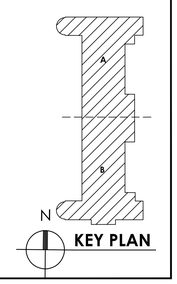
(2) REMOVE EXISTING STEAM PIPING, CONDENSATE RETURN PIPING AND TRAP TO POINT BELOW FLOOR IN CRAWL SPACE. PREPARE PIPING FOR NEW UV. INFILL EXISTING FLOOR PENETRATIONS AS REQUIRED TO MATCH EXISTING MATERIALS AND FINISHES.



1 H101 **FIRST FLOOR HVAC DEMOLITION PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 H101 **FIRST FLOOR HVAC DEMOLITION PLAN - AREA B**
SCALE: 1/8" = 1'-0"



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8/28/2020	DLB	AMT

SCALE AS NOTED

SHEET TITLE
FIRST FLOOR HVAC DEMOLITION PLAN

PROJECT NUMBER
14428.16/17

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H101
DRAWING NUMBER

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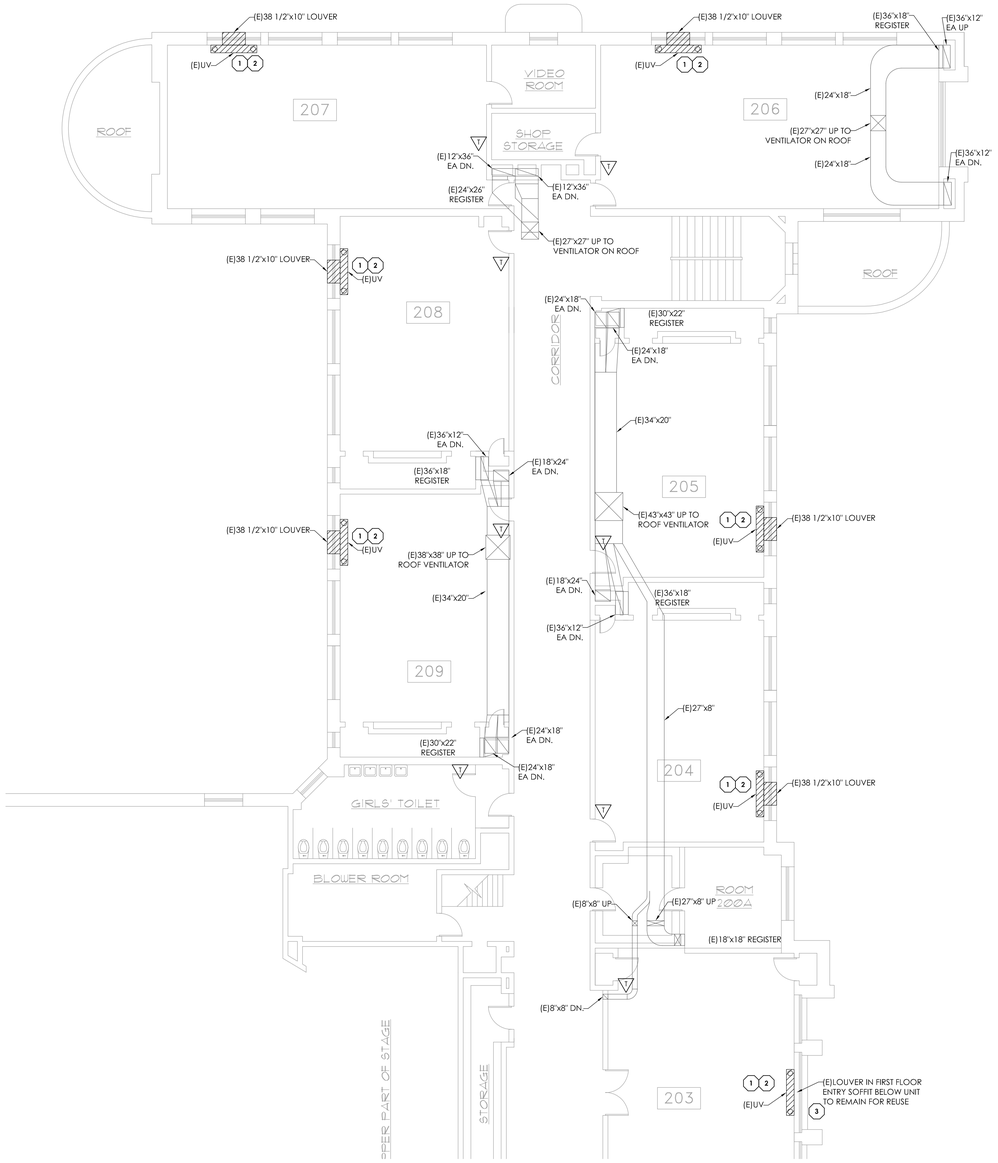
GENERAL NOTES:

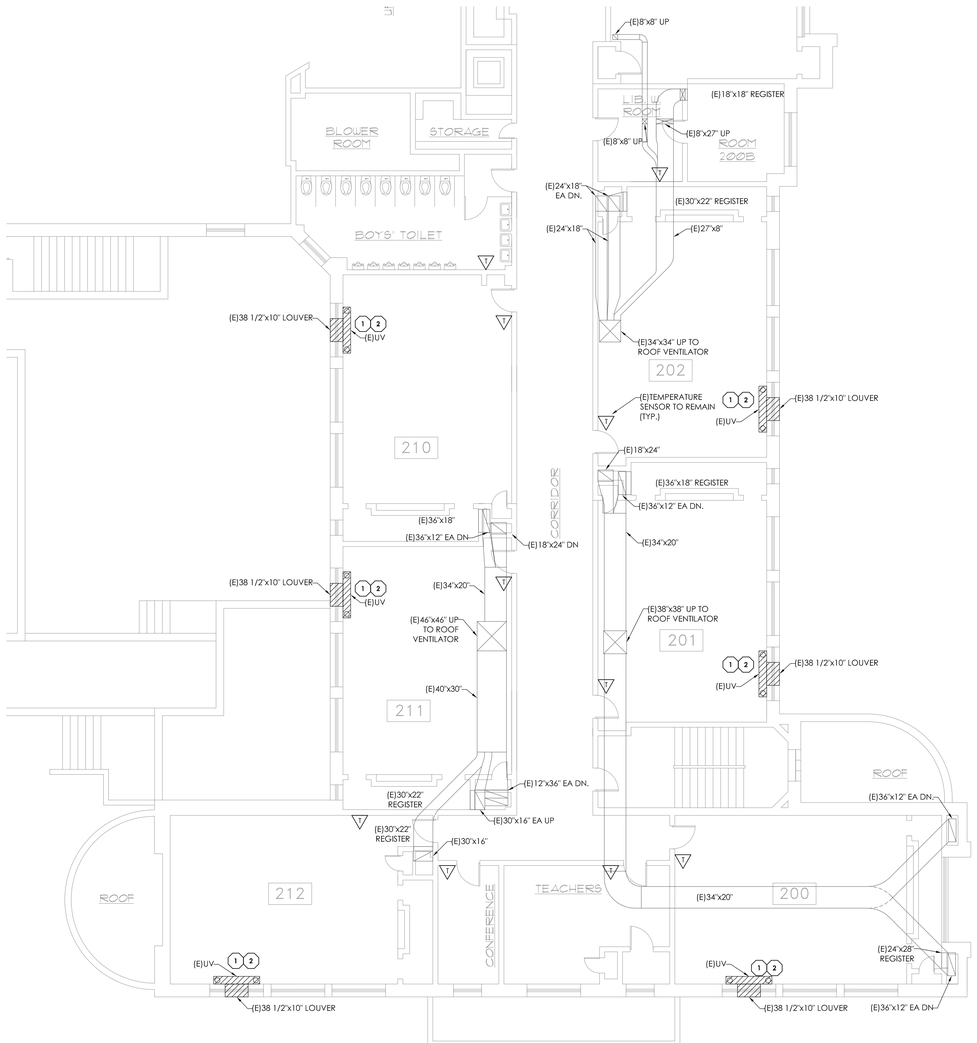
1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS TO PERFORM ANY DEMOLITION OR NEW WORK. ANY EXISTING CEILINGS REQUIRING REMOVAL TO COMPLETE WORK SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE AND BE REUSED. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIALS SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.

KEY NOTES:

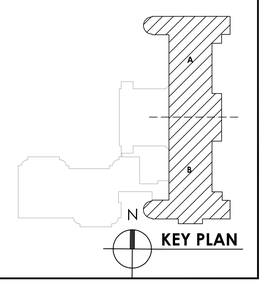
1. REMOVE EXISTING UNIT VENTILATOR, WALL LOUVER, SLEEVE, GRILLE, AND DUCTWORK IN ITS ENTIRETY INCLUDING ALL ASSOCIATED ACCESSORIES. PREPARE WALL OPENING FOR NEW LOUVER. EXTRACT AND RETAIN EXISTING CONTROLS FOR RE-INSTALLATION.
2. REMOVE EXISTING STEAM PIPING, CONDENSATE RETURN PIPING AND TRAP TO POINT BELOW FLOOR IN FIRST FLOOR CEILING. PREPARE PIPING FOR NEW UV. INFILL EXISTING FLOOR PENETRATIONS AS REQUIRED TO MATCH EXISTING MATERIALS AND FINISHES.
3. EXISTING LOUVER AND INTAKE DUCTWORK DIRECTLY BELOW UNIT SHALL REMAIN FOR REUSE. REMOVE ANY OBSTRUCTIONS AND PREPARE FOR RECONNECTION TO NEW UNIT VENTILATOR.



1 H102 **SECOND FLOOR HVAC DEMOLITION PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 H102 **SECOND FLOOR HVAC DEMOLITION PLAN - AREA B**
SCALE: 1/8" = 1'-0"



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DATE	DRAWN	CHECKED
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SHEET TITLE
SECOND FLOOR HVAC DEMOLITION PLAN

PROJECT NUMBER
14428.16/17

PES
H102
DRAWING NUMBER

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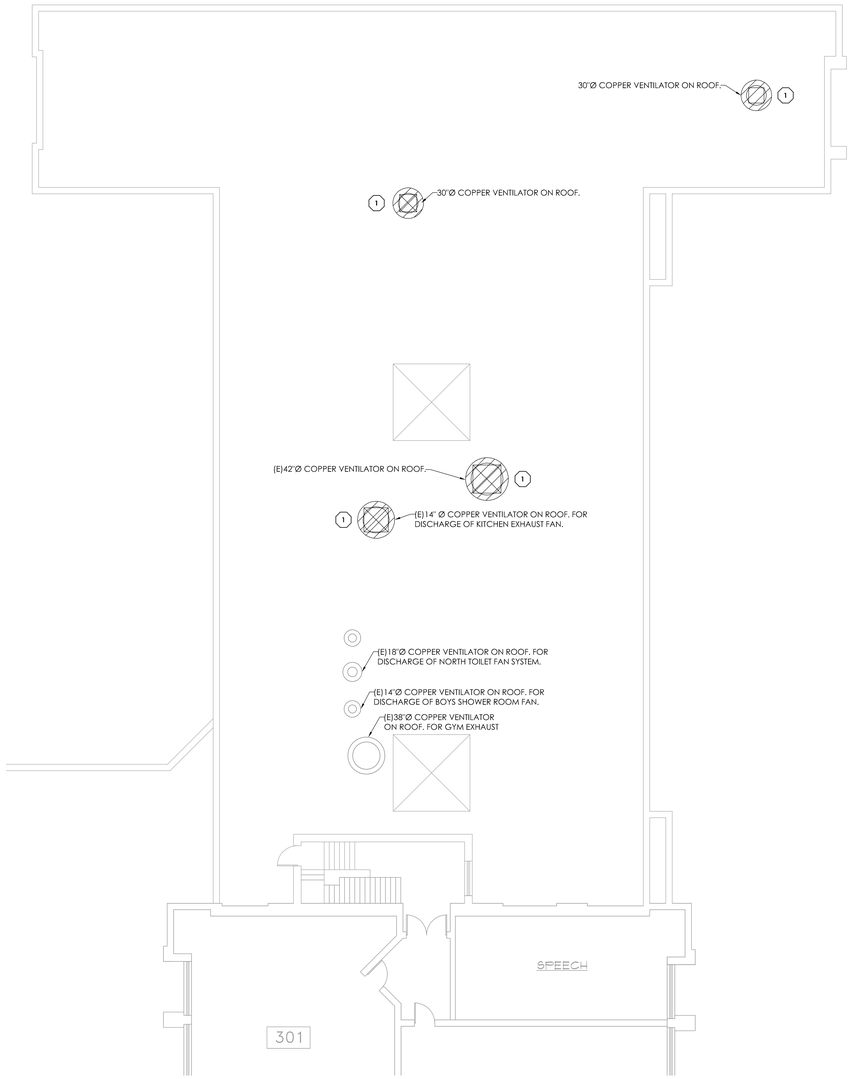
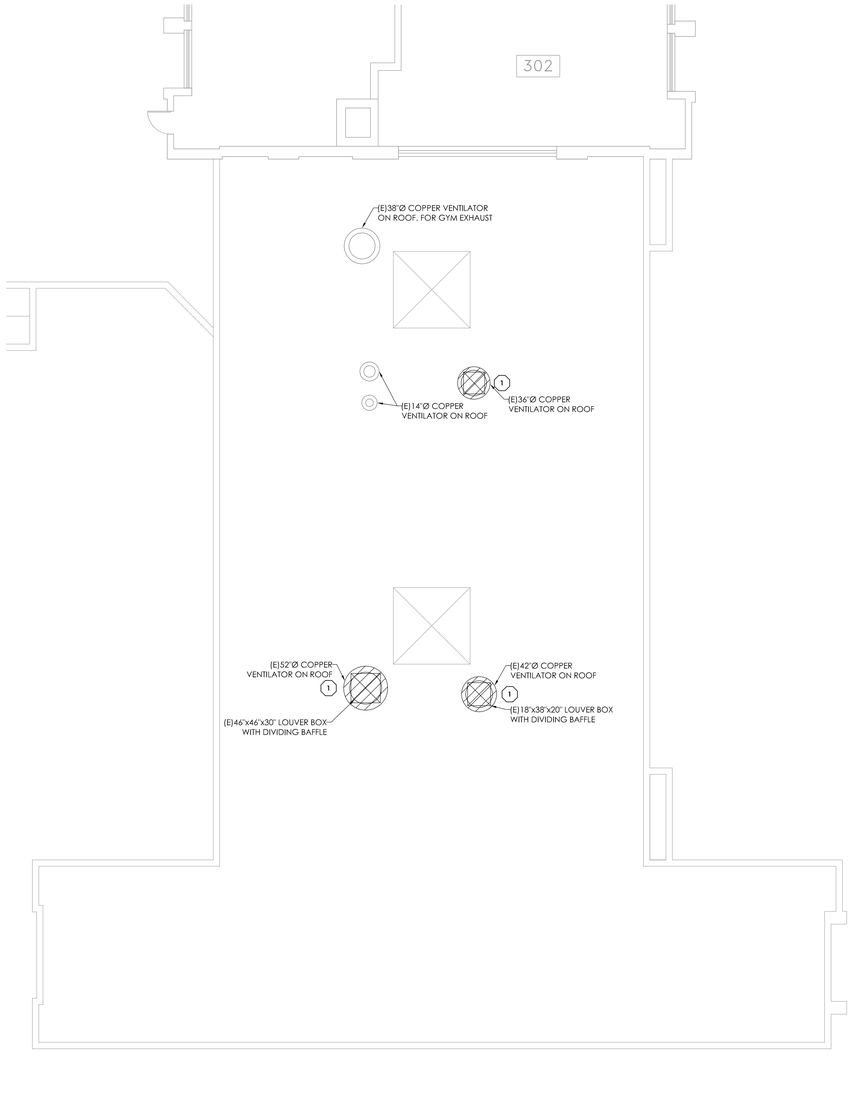
Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Resp\LD Design\06 CAD\AutoCAD\MECH\H1\PARK - H102_103.dwg Date last accessed: 11/24/2020 10:55 AM Date last plotted: 1/6/2021 8:28 AM Plotted By: James Masula

KEY NOTES:

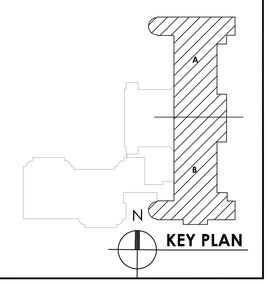
1. REMOVE EXISTING GRAVITY VENT AND CURB. PREPARE FOR NEW CURB. INFILL DECKING MATERIAL AS REQUIRED. REFER TO ROOF SUPPORT DETAILS FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH THE OWNER AND THE EXISTING ROOFING MANUFACTURER TO MAINTAIN THE WARRANTY ON THE ROOF. ALL ROOFING WORK SHALL BE PER THE ROOFING MANUFACTURER'S AND NRCA REQUIREMENTS AND RECOMMENDATIONS.



1 H103 **ROOF HVAC DEMOLITION PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 H103 **ROOF HVAC DEMOLITION PLAN - AREA B**
SCALE: 1/8" = 1'-0"



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OSSINING UNION FREE SCHOOL DISTRICT

HVAC IMPROVEMENTS

PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023
OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	KAB	JJM

SCALE AS NOTED

SHEET TITLE
ROOF HVAC
DEMOLITION PLAN

PROJECT NUMBER
14428.16/17

PES
H103
DRAWING NUMBER

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Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Repl\D Design\06 CAD\AutoCAD\MECH\H1\PARK - H102_103.dwg Date last accessed: 11/24/2020 10:55 AM Date last plotted: 1/6/2021 8:29 AM Plotted By: James Masula

GENERAL NOTES:

1. REBALANCE ALL GRILLES TO AIRFLOW RATES INDICATED IN BRACKETS [ ].

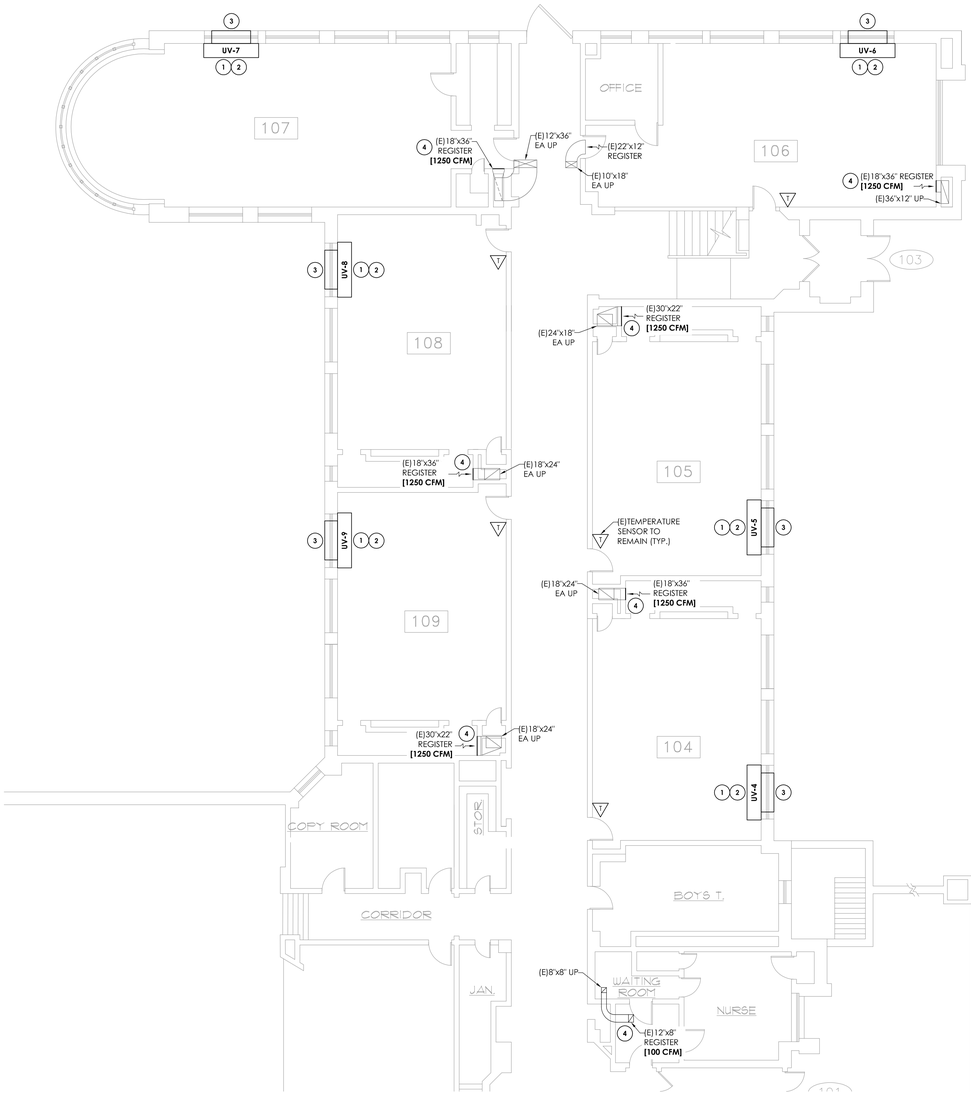
KEY NOTES:

(1) PROVIDE NEW UNIT VENTILATOR, LOUVER, AND LOUVER SLEEVE. UNIT VENTILATOR SHALL INCLUDE A TWO-INCH STEP DOWN TO ALLOW INSTALLATION BELOW THE EXISTING WINDOW SILL. MODIFY VERTICAL SILL TRIM AS REQUIRED TO FACILITATE UNIT INSTALLATION FLUSH WITH WALL. FIELD VERIFY THE REQUIRED STEP DOWN HEIGHT AND CABINET DEPTH PRIOR TO SUBMITTING AND ORDERING EQUIPMENT. ROUTE PIPING IN UNIT VENTILATOR PIPE PORTAL. AVOID ROUTING PIPING IN FRONT OF LOUVERS. PROVIDE HARD DUCTED SLEEVE TO NEW LOUVER AND SEAL WEATHER TIGHT. PATCH AND REPAIR ALL DISTURBED PORTIONS OF EXISTING WALLS AND FLOOR TO MATCH EXISTING MATERIALS AND FINISHES.

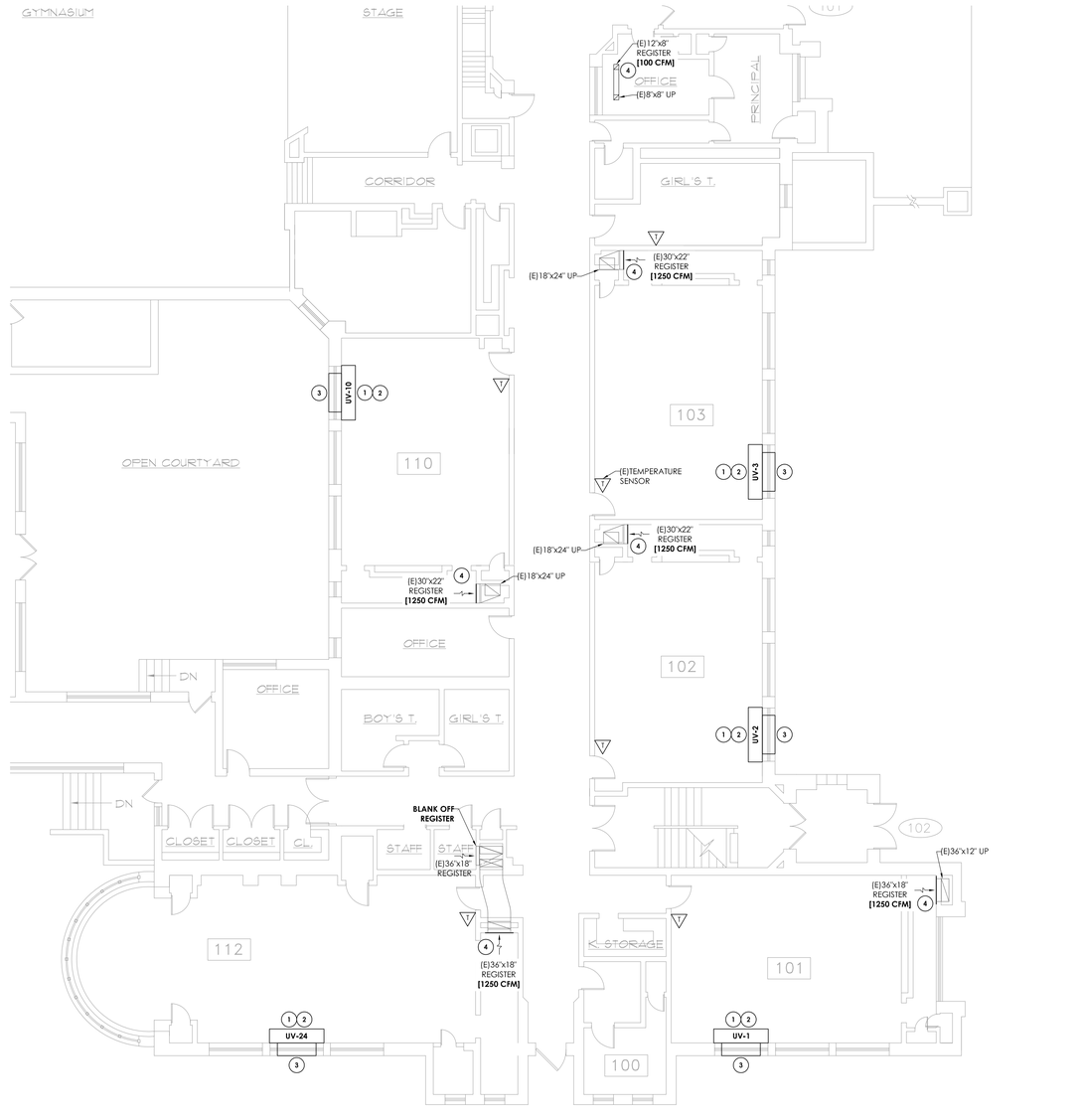
(2) PROVIDE NEW FLOOR PENETRATIONS ALIGNING WITH NEW UNIT VENTILATOR END POCKET PIPE PORTAL. EXTEND AND CONNECT STEAM AND CONDENSATE RETURN PIPING FROM CRAWL SPACE TO UNIT VENTILATOR. REINSTALL EXISTING CONTROLS AND PROVIDE NEW STEAM TRAPS.

(3) MODIFY EXISTING OUTDOOR AIR OPENING IN EXTERIOR WALL TO ACCOMMODATE NEW LOUVER. PROVIDE NEW LINTEL. SEE UV AND LINTEL SCHEDULE FOR SIZES.

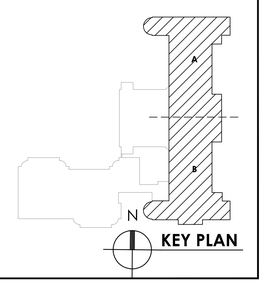
(4) PROVIDE NEW OPPOSED BLADE DAMPER SIZED TO MATCH EXISTING REGISTER. INSTALL CONCEALED BEHIND EXISTING REGISTER.



1 H201 **FIRST FLOOR HVAC NEW WORK PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 H201 **FIRST FLOOR HVAC NEW WORK PLAN - AREA B**
SCALE: 1/8" = 1'-0"



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HVAC IMPROVEMENTS

PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023
OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	DLB	AMT

SCALE AS NOTED

SHEET TITLE
FIRST FLOOR HVAC NEW WORK PLAN

PROJECT NUMBER
14428.16/17

PES
H201
DRAWING NUMBER

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Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Repl\D Design\06 CAD\AutoCAD\MECH\H2\PARK - H201.dwg Date last accessed: 11/24/2020 10:54 AM Date last plotted: 1/6/2021 8:30 AM Plotted By: James Maiula

GENERAL NOTES:

1. REBALANCE ALL GRILLES TO AIRFLOW RATES INDICATED IN BRACKETS [ ].

KEY NOTES:

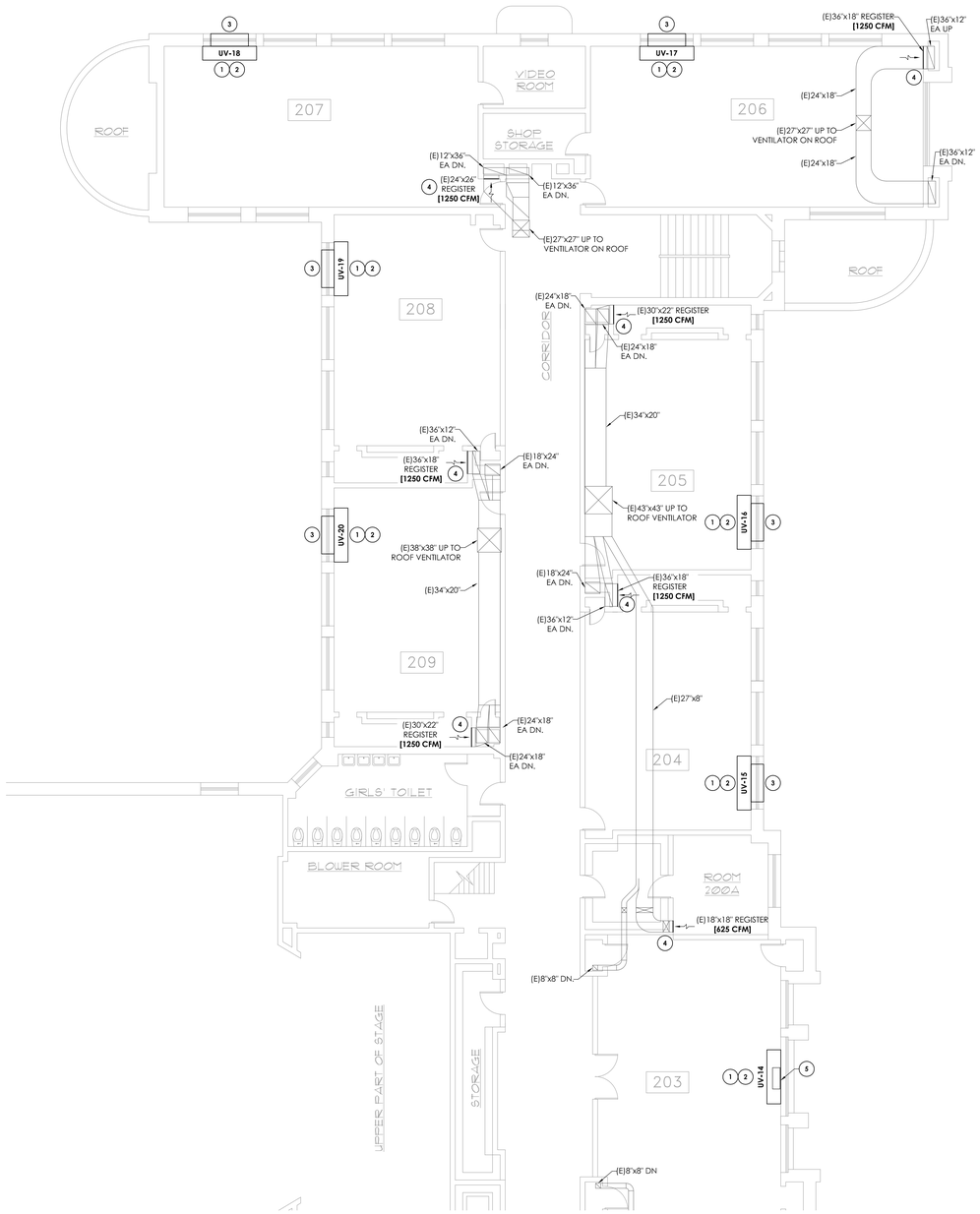
(1) PROVIDE NEW UNIT VENTILATOR, LOUVER, AND LOUVER SLEEVE. UNIT VENTILATOR SHALL INCLUDE A TWO-INCH STEP DOWN TO ALLOW INSTALLATION BELOW THE EXISTING WINDOW SILL. MODIFY VERTICAL SILL TRIM AS REQUIRED TO FACILITATE UNIT INSTALLATION FLUSH WITH WALL. FIELD VERIFY THE REQUIRED STEP DOWN HEIGHT AND CABINET DEPTH PRIOR TO SUBMITTING AND ORDERING EQUIPMENT. ROUTE PIPING IN UNIT VENTILATOR PIPE PORTAL. AVOID ROUTING PIPING IN FRONT OF LOUVERS. PROVIDE HARD DUCTED SLEEVE TO NEW LOUVER AND SEAL WEATHER TIGHT. PATCH AND REPAIR ALL DISTURBED PORTIONS OF EXISTING WALLS AND FLOOR TO MATCH EXISTING MATERIALS AND FINISHES.

(2) PROVIDE NEW FLOOR PENETRATIONS ALIGNING WITH NEW UNIT VENTILATOR END POCKET PIPE PORTAL LOCATION. EXTEND AND CONNECT STEAM AND CONDENSATE RETURN PIPING FROM CRAWL SPACE TO UNIT VENTILATOR. REINSTALL EXISTING CONTROLS AND PROVIDE NEW STEAM TRAPS.

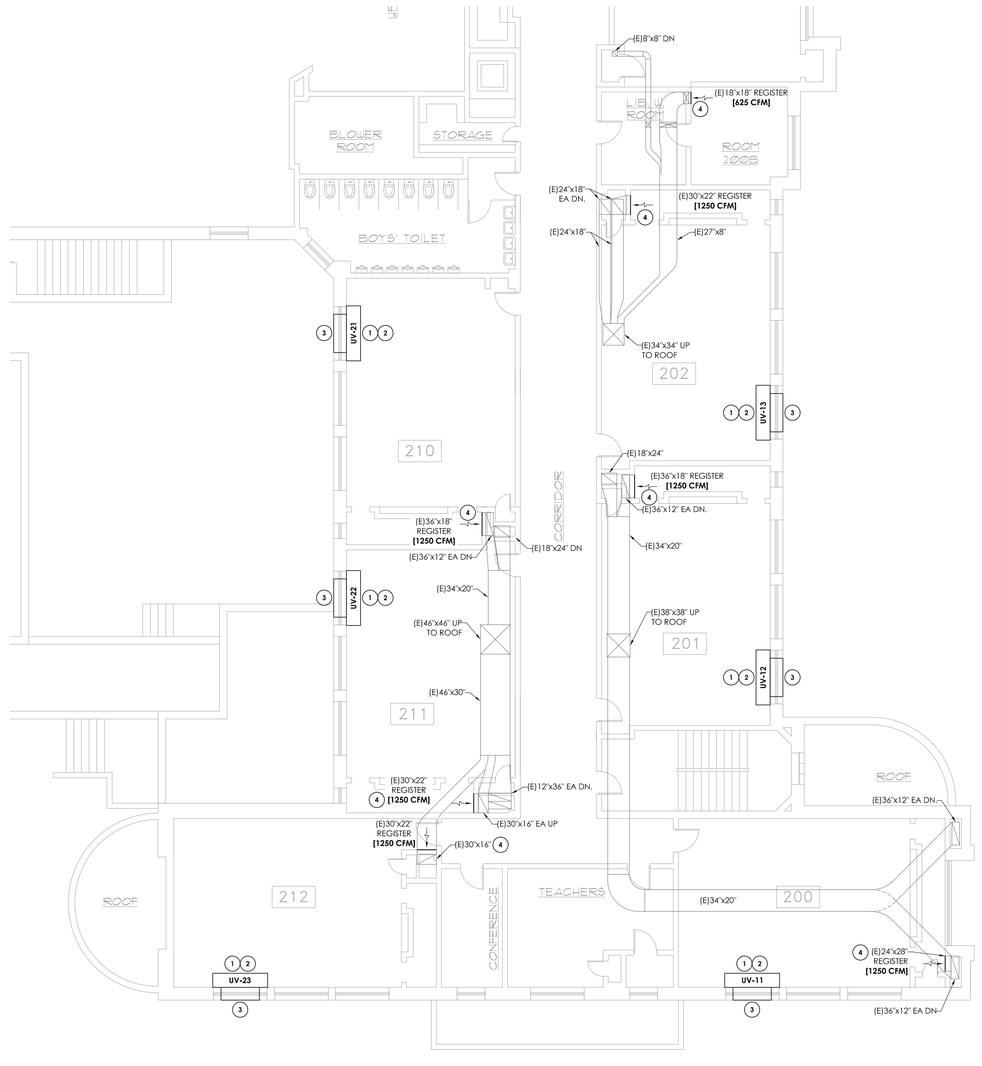
(3) MODIFY EXISTING OUTDOOR AIR OPENING IN EXTERIOR WALL TO ACCOMMODATE NEW LOUVER. PROVIDE NEW LINTEL. SEE UV AND LINTEL SCHEDULE FOR SIZES.

(4) PROVIDE NEW OPPOSED BLADE DAMPER SIZED TO MATCH EXISTING REGISTER. INSTALL CONCEALED BEHIND EXISTING REGISTER.

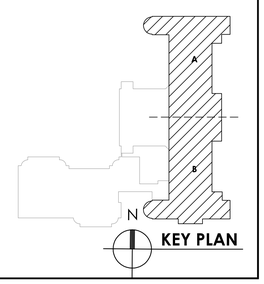
(5) ALIGN NEW UV OUTSIDE AIR INTAKE PLENUM DIRECTLY OVER EXISTING INTAKE OPENING IN FLOOR. OWNER SHALL FUR OUT WALL AS NECESSARY TO FACILITATE UV INSTALLATION OVER INTAKE OPENING.



1 H202 **SECOND FLOOR HVAC NEW WORK PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 H202 **SECOND FLOOR HVAC NEW WORK PLAN - AREA B**
SCALE: 1/8" = 1'-0"



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HVAC IMPROVEMENTS

PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023
OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	KAB	JJM

SCALE AS NOTED

SHEET TITLE
SECOND FLOOR HVAC NEW WORK PLAN

PROJECT NUMBER
14428.16/17

PES
H202
DRAWING NUMBER

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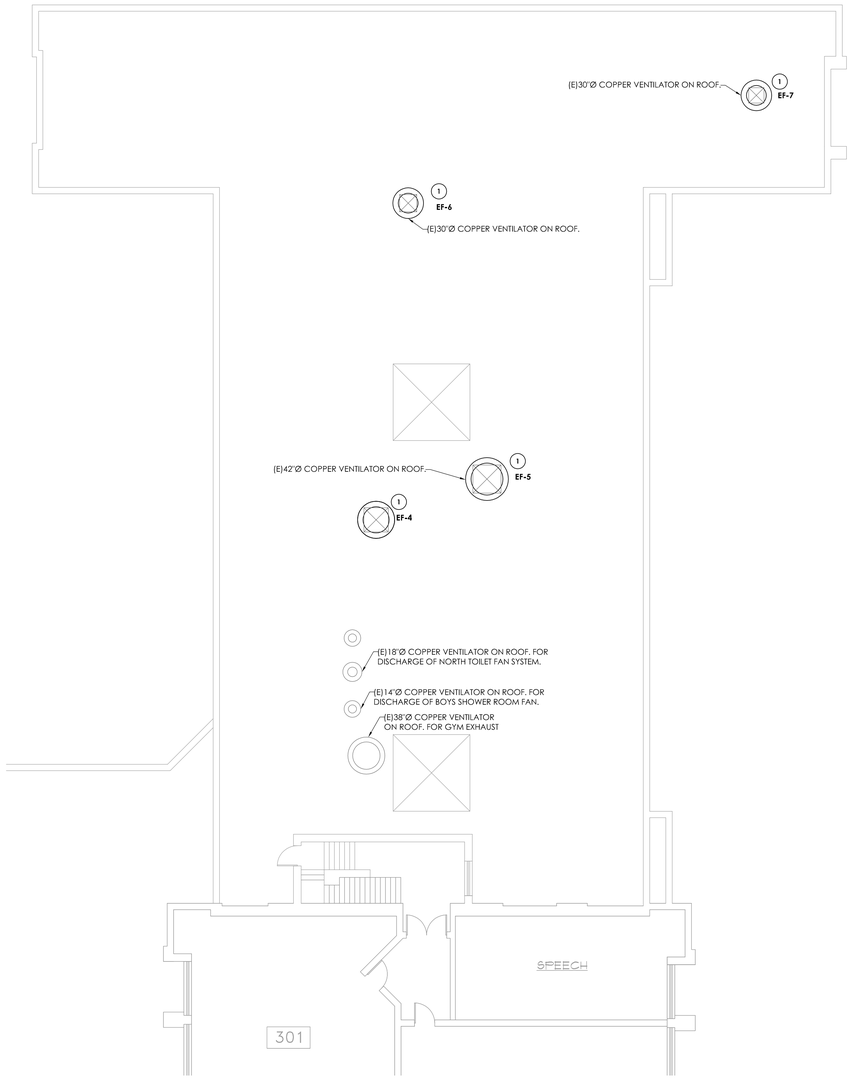
Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Resh\D Design\06 CAD\AutoCAD\MECH\H2D\PARK - H202.dwg Date last accessed: 11/24/2020 2:33 PM Date last plotted: 1/6/2021 8:32 AM Plotted By: James Maiula

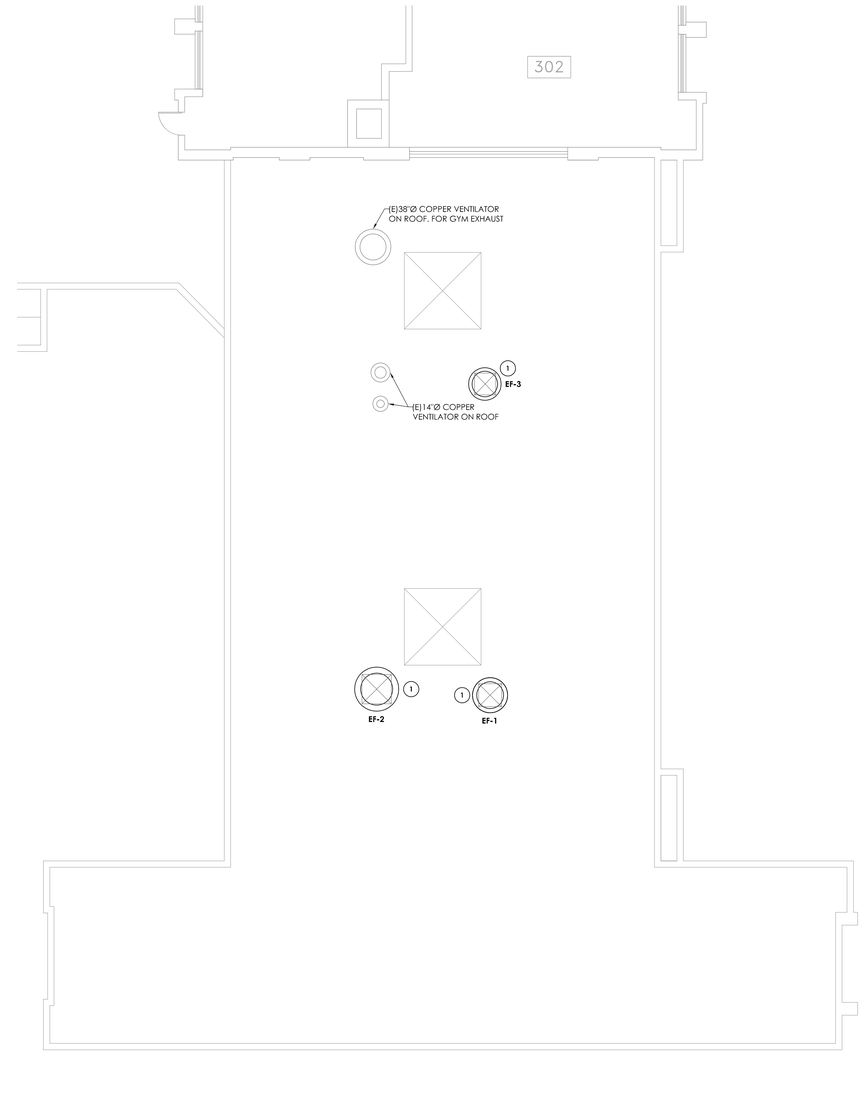
Drawing Name: S:\Projects\Ossining (JFSD\Park ECC UV Repl\D Design\06 CAD\AutoCAD\MECH\H2\PARK - H202.dwg Date last accessed: 11/24/2020 2:33 PM Plotted By: James Masula Date last plotted: 1/6/2021 8:32 AM

KEY NOTES:

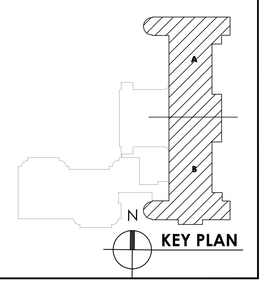
1. PROVIDE NEW EXHAUST FAN AND ROOF CURB WHERE INDICATED. PROVIDE ALL NECESSARY DUCTWORK MODIFICATIONS AND TRANSITIONS AS REQUIRED TO FACILITATE CONNECTION TO EXISTING LOUVER BOX. PROVIDE ROOFING WORK AS REQUIRED TO FACILITATE INSTALLATION AND SUPPORT OF NEW EXHAUST FAN. REFER TO ROOFING SUPPORT DETAILS FOR REQUIREMENTS.



1 H203 **ROOF HVAC NEW WORK PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 H203 **ROOF HVAC NEW WORK PLAN - AREA B**
SCALE: 1/8" = 1'-0"



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PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023
OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	KAB	JJM

SCALE AS NOTED

SHEET TITLE
ROOF HVAC
NEW WORK PLAN

PROJECT NUMBER
14428.16/17

PES
H203
DRAWING NUMBER

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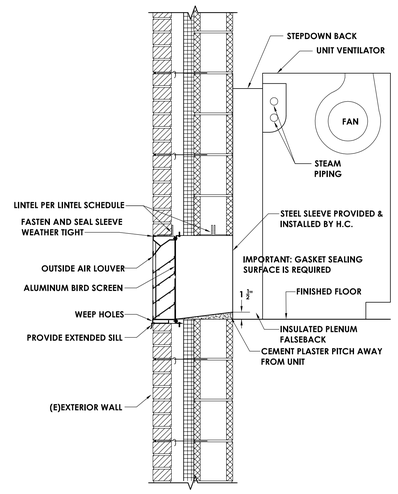
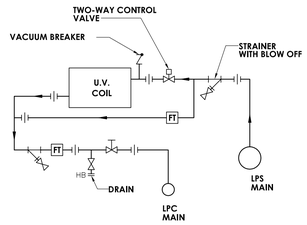
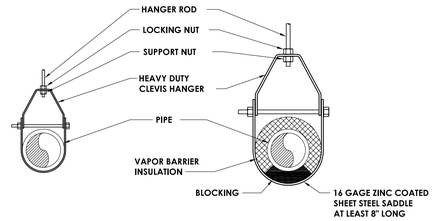


1 H800 **LOUVER THROUGH WALL SECTION**
NOT TO SCALE



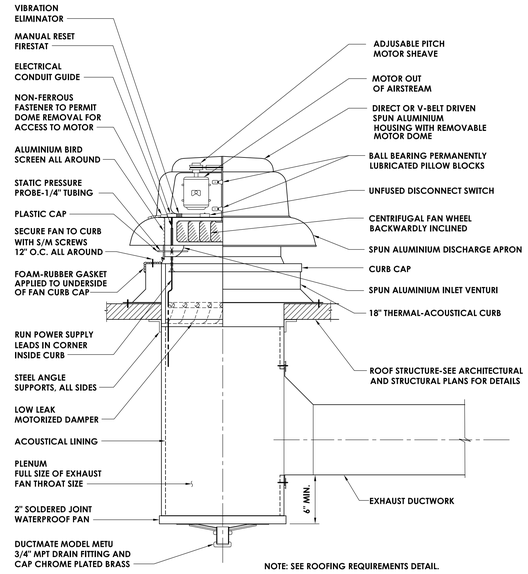
2 H800 **UNIT VENTILATOR STEAM PIPING SCHEMATIC**
SCALE: NOT TO SCALE



CLEVIS HANGER SINGLE HORIZONTAL RUNS NO VAPOR BARRIER INSULATION

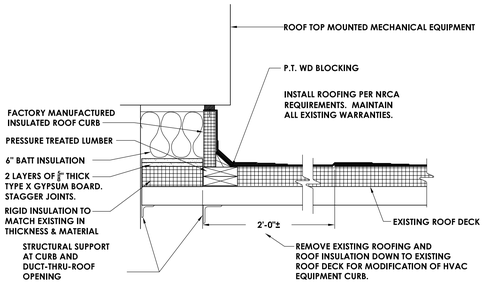
CLEVIS HANGER SINGLE HORIZONTAL RUNS WITH VAPOR BARRIER INSULATION

3 H800 **PIPE SUPPORT DETAIL**
NOT TO SCALE



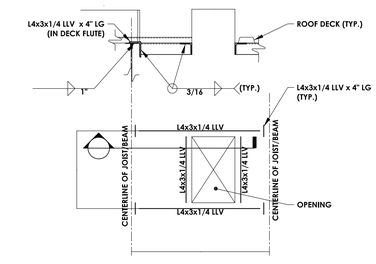
NOTE: SEE ROOFING REQUIREMENTS DETAIL.

4 H800 **EXHAUST FAN DETAIL**
NOT TO SCALE



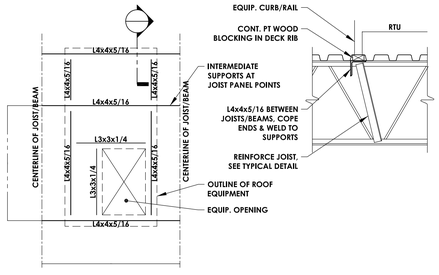
NOTE:
ALL ROOFTOP HVAC UNITS REQUIRED TO HAVE ROOFING REQUIREMENTS AS SHOWN.

5 H800 **HVAC EQUIPMENT CURB ROOFING DETAIL - FOR EXISTING ROOFS**
NOT TO SCALE



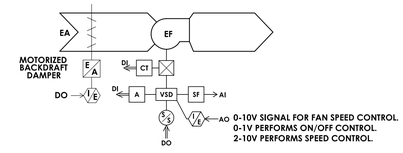
DETAIL NOTES:
1. THE ABOVE STEEL SIZES SHALL BE USED UNLESS NOTED OTHERWISE ON THE PLANS.
2. USE 1 1/2" X 20 GA. METAL DECKING TO INFILL ROOF OPENINGS WHERE EXISTING OPENING SIZE HAS BEEN REDUCED
3. CONTRACTOR TO COORDINATE EQUIPMENT AND OPENING SUPPORTS WITH MECHANICAL CONTRACTOR AND FINAL APPROVED EQUIPMENT SUBMITTAL.
4. FOR SPANS GREATER THAN 5'-0" AND UP TO 7'-0" USE L5X3 1/2X5/16 LLV ANGLES.
5. THIS DETAIL IS FOR ROOF OPENINGS ONLY. REFER TO OTHER DETAILS FOR EQUIPMENT SUPPORT.

6 H800 **ROOF OPENING SUPPORT DETAIL**
NOT TO SCALE

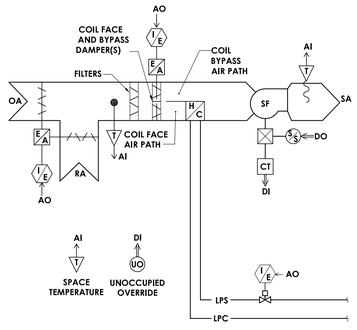


DETAIL NOTES:
1. THE ABOVE STEEL SIZES SHALL BE USED UNLESS NOTED OTHERWISE ON THE PLANS.
2. CONTRACTOR TO COORDINATE EQUIPMENT AND OPENING SUPPORTS WITH ENGINEER AND FINAL APPROVED EQUIPMENT SUBMITTAL.
3. L4x4x5/16 MEMBERS CAN BE REPLACED WITH L3x3x1/4 MEMBERS FOR EQUIPMENT LESS THAN 1,000 LB IN TOTAL WEIGHT (INCLUDES OPERATING WEIGHT).
4. FOR SPANS GREATER THAN 5'-0" AND UP TO 7'-0" USE L6x4x3/8 LLV ANGLES.

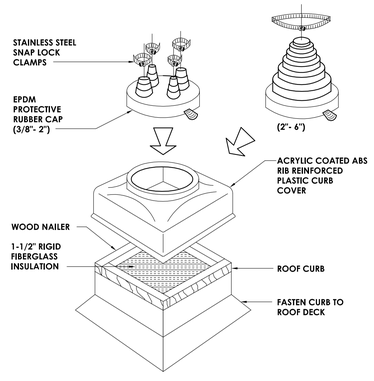
7 H800 **ROOF EQUIPMENT SUPPORT DETAIL**
NOT TO SCALE



8 H800 **EXHAUST FANS WITH EC MOTORS, INTEGRAL VFD, AND BMS SPEED CONTROL**
NOT TO SCALE



9 H800 **UNIT VENTILATORS**
NOT TO SCALE



NOTES:
1. INSTALL ROOFING PER NRCA RECOMMENDATIONS. COORDINATE WITH OWNER AND EXISTING ROOFING MANUFACTURER TO MAINTAIN WARRANTY.
2. REMOVE EXISTING ROOFING AND ROOF INSULATION DOWN TO EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF HVAC EQUIPMENT CURB. CUT OPENING IN EXISTING ROOF DECK AND PROVIDE STRUCTURAL SUPPORT FOR MECHANICAL EQUIPMENT AND OPENING EDGE.
3. INSTALLATION OF ALL MECHANICAL EQUIPMENT, RAILS AND CURBS SHALL CONFORM TO NYS BUILDING CODE SECTION 1604.9 AND THE WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.

10 H800 **PIPE PORTAL DETAIL**
NOT TO SCALE

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OSSINING UNION FREE SCHOOL DISTRICT

HVAC IMPROVEMENTS
PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023
OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	KAB	JJM

SCALE AS NOTED

SHEET TITLE
HVAC DETAILS

PROJECT NUMBER
14428.16/17

PES
H800
DRAWING NUMBER

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UNIT VENTILATOR SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	CFM	MOTOR					MIN. OA CFM	WINTER		STEAM COIL CAPACITY				TYPE	NOMINAL DIMENSIONS ["X"W"X"H"]	OA LOUVER DIMENSIONS ["X"W"]	ARRANGEMENT	FILTER RATING	REMARKS:
					HP	FAN SPEED	TYPE	MOCP (A)	FLA	VOLTS/Ø		OA °F	RA °F	COIL ROWS	MAT °F	LAT °F	INLET (FSI)	MBH					
UV-1	DAIKIN	UAVSH13	CLASSROOM 101	1250	1/3	HIGH	ECM	15	4.2	115/1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-2	DAIKIN	UAVSH13	CLASSROOM 102	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-3	DAIKIN	UAVSH13	CLASSROOM 103	1250	1/3	HIGH	ECM	15	4.2	115/1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-4	DAIKIN	UAVSH13	CLASSROOM 104	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-5	DAIKIN	UAVSH13	CLASSROOM 105	1250	1/3	HIGH	ECM	15	4.2	115/1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-6	DAIKIN	UAVSH13	CLASSROOM 106	1250	1/3	HIGH	ECM	15	4.2	115/1	465	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-7	DAIKIN	UAVSH13	CLASSROOM 107	1250	1/3	HIGH	ECM	15	4.2	115/1	455	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-8	DAIKIN	UAVSH13	CLASSROOM 108	1250	1/3	HIGH	ECM	15	4.2	115/1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-9	DAIKIN	UAVSH13	CLASSROOM 109	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-10	DAIKIN	UAVSH13	CLASSROOM 110	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-11	DAIKIN	UAVSH13	CLASSROOM 200	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-12	DAIKIN	UAVSH13	CLASSROOM 201	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-13	DAIKIN	UAVSH13	CLASSROOM 202	1250	1/3	HIGH	ECM	15	4.2	115/1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-14	DAIKIN	UAVSH13	CLASSROOM 203	1250	1/3	HIGH	ECM	15	4.2	115/1	460	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-15	DAIKIN	UAVSH13	CLASSROOM 204	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-16	DAIKIN	UAVSH13	CLASSROOM 205	1250	1/3	HIGH	ECM	15	4.2	115/1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-17	DAIKIN	UAVSH13	CLASSROOM 206	1250	1/3	HIGH	ECM	15	4.2	115/1	460	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-18	DAIKIN	UAVSH13	CLASSROOM 207	1250	1/3	HIGH	ECM	15	4.2	115/1	455	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-19	DAIKIN	UAVSH13	CLASSROOM 208	1250	1/3	HIGH	ECM	15	4.2	115/1	440	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-20	DAIKIN	UAVSH13	CLASSROOM 209	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-21	DAIKIN	UAVSH13	CLASSROOM 210	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-22	DAIKIN	UAVSH13	CLASSROOM 211	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-23	DAIKIN	UAVSH13	CLASSROOM 212	1250	1/3	HIGH	ECM	15	4.2	115/1	435	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-24	DAIKIN	UAVSH13	CLASSROOM 112	1250	1/3	HIGH	ECM	15	4.2	115/1	490	2.0	68.0	1	46.9	97.9	2	69.5	FACE & BYPASS	86 X 21-7/8 X 30-1/8	60 X 10.5	1	MERV 13	1,2,3,4,5
UV-HS-1/2	AIRDALE	UVD40	WEIGHT ROOM	750	1/2	MEDIUM	ECM	15	9.2	115/1	345	2.0	68.0	1	43	148.9	5	88.2	FACE & BYPASS	10X33X30	35/10	2	MERV 13	1,2,5,6
REMARKS:	1. BACnet NETWORKS: ALL EQUIPMENT TO BE CONNECTED TO THE EXISTING BMS (SCHNEIDER ELECTRIC, ANDOVER SYSTEM).																							
	2. MOTOR AND ELECTRICAL INPUT BOX INCLUDES FAN SPEED SWITCH, ON/OFF SWITCH AND NON-FUSED DISCONNECT.																							
	3. PROVIDE WITH MANUFACTURER'S 2" SOLID STEPDOWN ACCESSORY, AND FULL ADAPTER BACK WITH ENCLOSED PIPE TUNNEL.																							
	4. PROVIDE TWO 12-INCH END COMPARTMENTS. FULL 30" HEIGHT WITH 2" STEP DOWN.																							
	5. EXTERIOR LOUVER SHALL BE CUSTOM COLOR AS SELECTED BY THE ARCHITECT TO MATCH THE COLOR OF THE SURROUNDING BRICK.																							
	6. PROVIDE REAR PLENUM BOX.																							
ARRANGEMENTS:	1. RETURN AIR - FRONT RECESSED AIR-KICK PANEL/ OUTDOOR AIR - REAR DUCT COLLAR/ SUPPLY AIR - TOP DISCHARGE GRILLE.																							
	2. FRONT RETURN GRILLE, BACK OUTDOOR AIR CONNECTION, TOP DISCHARGE, COIL AS HIGH AS POSSIBLE.																							

FAN SCHEDULE

MARK	LOCATION	SERVICE	TYPE	CFM	SP IN W.G.	DIAMETER (IN.)	FAN RPM	ELECTRICAL DATA				TYPICAL UNIT MFG.	REMARKS:
								BHP / HP	VOLTS	PHASE	VFD		
EF-1	ROOF	RELIEF	DOWNBLAST	5,000	0.50	24.5	692	2	208	3	INTEGRAL	GREENHECK - G-240-D-VGD	1,2,3,4,5
EF-2	ROOF	RELIEF	DOWNBLAST	6,250	0.70	24.5	846	2	208	3	INTEGRAL	GREENHECK - G-240-D-VGD	1,2,3,4,5
EF-3	ROOF	RELIEF	DOWNBLAST	3,225	0.50	16.625	1277	2	208	1	INTEGRAL	GREENHECK - G-163-VG	1,2,3,4,5
EF-4	ROOF	RELIEF	DOWNBLAST	5,000	0.60	24.5	722	2	208	3	INTEGRAL	GREENHECK - G-240-D-VGD	1,2,3,4,5
EF-5	ROOF	RELIEF	DOWNBLAST	5,725	0.60	24.5	778	2	208	3	INTEGRAL	GREENHECK - G-240-D-VGD	1,2,3,4,5
EF-6	ROOF	RELIEF	DOWNBLAST	2,500	0.50	14.625	1522	1	208	1	INTEGRAL	GREENHECK - G-143-VG	1,2,3,4,5
EF-7	ROOF	RELIEF	DOWNBLAST	2,500	0.40	14.625	1490	1	208	1	INTEGRAL	GREENHECK - G-143-VG	1,2,3,4,5
EF-HS-1	GYM	RELIEF	WALL MNTD	700	0.25	14	1616	.06/.25	115	1	INTEGRAL	GREENHECK - SE1-12-438VG	1,2,4,5
REMARKS:	1. PROVIDE WITH MANUFACTURER'S DISCONNECT SWITCH.												
	2. PROVIDE WITH MANUFACTURER'S EC MOTOR WITH INTEGRAL VFD AND 0-10 VDC INPUT SIGNAL CONTROL.												
	3. PROVIDE WITH MANUFACTURER'S 14" HIGH ROOF CURB.												
	4. PROVIDE WITH MANUFACTURER'S LOW VOLTAGE MOTORIZED DAMPER.												
	5. PROVIDE WITH MANUFACTURER'S ALUMINUM BIRDSCREEN.												

LOUVER SCHEDULE

MARK	LOCATION	SERVICE	FREE AREA (SQ. FT.)	CFM	SP (IN. WG)	SIZE W&H (IN.)	TYPICAL UNIT MFG. & MODEL NO.	REMARKS:
L-1	GYM	INTAKE	1.95	315	0	35X10	RUSKIN ELF375DX	1
L-2	GYM	RELIEF	0.97	630	0.06	18X18	RUSKIN ELF375DX	
REMARKS:	1. MATCH EXISTING OPENING SIZE, FIELD VERIFY.							

VENTILATION SCHEDULE

NEW TAG	WORST CASE ROOM	CFM/ft^2 AT MAXIMUM	TOTAL OCCUPANCY FOR VENTILATION	TOTAL SQ. FT.	O.A. PER SQ. FT. (CFM)	O.A. PER SW. FT. (CFM)	Vbz (CFM)	Ez	OVER VENTILATION FOR LOUVER CROSSCONTAMINATION	VozeVot (CFM)	SPACE MAXIMUM SUPPLY (CFM)
Park ECC - First Floor											
	Park ECC - Rm 101	**0.00**	**30**	**774**	**10**	**0.12**	**393**	**0.9**	**0%**	**437**	
	Park ECC - Rm 102	**0.00**	**30**	**749**	**10**	**0.12**	**390**	**0.9**	**0%**	**433**	
	Park ECC - Rm 103	**0.00**	**30**	**776**	**10**	**0.12**	**393**	**0.9**	**0%**	**437**	
	Park ECC - Rm 104	**0.00**	**30**	**744**	**10**	**0.12**	**389**	**0.9**	**0%**	**433**	
	Park ECC - Rm 105	**0.00**	**30**	**774**	**10**	**0.12**	**393**	**0.9**	**0%**	**437**	
	Park ECC - Rm 106	**0.00**	**30**	**969**	**10**	**0.12**	**416**	**0.9**	**0%**	**463**	
	Park ECC - Rm 107	**0.00**	**30**	**1120**	**10**	**0.12**	**434**	**0.9**	**0%**	**483**	
	Park ECC - Rm 108	**0.00**	**30**	**776**	**10**	**0.12**	**393**	**0.9**	**0%**	**437**	
	Park ECC - Rm 109	**0.00**	**30**	**757**	**10**	**0.12**	**391**	**0.9**	**0%**	**434**	
	Park ECC - Rm 110	**0.00**	**30**	**763**	**10**	**0.12**	**392**	**0.9**	**0%**	**435**	
	Park ECC - Rm 112	**0.00**	**30**	**1147**	**10**	**0.12**	**438**	**0.9**	**0%**	**486**	
Park ECC - Second Floor											
	Park ECC - Rm 200	**0.00**	**30**	**765**	**10**	**0.12**	**392**	**0.9**	**0%**	**435**	
	Park ECC - Rm 201	**0.00**	**30**	**744**	**10**	**0.12**	**389**	**0.9**	**0%**	**433**	
	Park ECC - Rm 202	**0.00**	**30**	**780**	**10**	**0.12**	**394**	**0.9**	**0%**	**437**	
	Park ECC - Rm 203	**0.00**	**30**	**920**	**10**	**0.12**	**410**	**0.9**	**0%**	**456**	
	Park ECC - Rm 204	**0.00**	**30**	**744**	**10**	**0.12**	**389**	**0.9**	**0%**	**433**	
	Park ECC - Rm 205	**0.00**	**30**	**774**	**10**	**0.12**	**393**	**0.9**	**0%**	**437**	
	Park ECC - Rm 206	**0.00**	**30**	**941**	**10**	**0.12**	**413**	**0.9**	**0%**	**459**	
	Park ECC - Rm 207	**0.00**	**30**	**899**	**10**	**0.12**	**408**	**0.9**	**0%**	**453**	
	Park ECC - Rm 208	**0.00**	**30**	**776**	**10**	**0.12**	**393**	**0.9**	**0%**	**437**	
	Park ECC - Rm 209	**0.00**	**30**	**757**	**10**	**0.12**	**391**	**0.9**	**0%**	**434**	
	Park ECC - Rm 210	**0.00**	**30**	**759**	**10**	**0.12**	**391**	**0.9**	**0%**	**435**	
	Park ECC - Rm 211	**0.00**	**30**	**757**	**10**	**0.12**	**391**	**0.9**	**0%**	**434**	
	Park ECC - Rm 212	**0.00**	**30**	**753**	**10**	**0.12**	**390**	**0.9**	**0%**	**434**	

Outdoor Air Ventilation Calculations

EQUIPMENT TAG	SPACE	AREA O.A. RATE (CFM/ft^2)	TOTAL OCCUPANCY	TOTAL SQ.FT.	O.A. PER PERSON (CFM)	O.A. PER SQ.FT. (CFM)	Vbz (CFM)	Ez	Louver Crosscontamination	VozeVot (CFM)
UV-HS-1/2	WEIGHT ROOM	0.29	24	2340	20	0.06	620	0.9	0%	689

LOOSE LINTEL SCHEDULE

WALL TYPE	SPAN	LINTEL
4" MASONRY / VENEER	**1'-4" to 4'-6"**	**L 4 x 3 1/2 x 5/16 (L.L.V.)**
	4'-7" to 5'-6"	**L 4 x 3 1/2 x 5/16 (L.L.V.)**
	5'-7" to 6'-6"	**L 5 x 3 1/2 x 5/16 (L.L.V.)**
	6'-7" to 7'-6"	**L 6 x 3 1/2 x 5/16 (L.L.V.)**
8" BLOCK	**1'-4" to 4'-6"**	**(2) - L4 x 3 1/2 x 5/16 (L.L.V.)**
	4'-7" to 5'-6"	**(2) - L4 x 3 1/2 x 5/16 (L.L.V.)**
	5'-7" to 6'-6"	**(2) - L5 x 3 1/2 x 5/16 (L.L.V.)**
	6'-7" to 7'-6"	**(2) - L6 x 3 1/2 x 5/16 (L.L.V.)**
	7'-7" to 9'-0"	**WT 9 x 25**
4" BRICK & 8" BLOCK OR 12" BLOCK	**1'-4" to 4'-6"**	**(3) - L4 x 3 1/2 x 5/16 (L.L.V.)**
	4'-7" to 5'-6"	**(3) - L4 x 3 1/2 x 5/16 (L.L.V.)**
	5'-7" to 6'-6"	**(3) - L5 x 3 1/2 x 5/16 (L.L.V.)**
	6'-7" to 7'-6"	**(3) - L6 x 3 1/2 x 5/16 (L.L.V.)**

1. **PROVIDE LOOSE LINTELS OVER ALL OPENINGS IN EXTERIOR AND INTERIOR MASONRY WALLS AS SCHEDULED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.**
2. **MINIMUM BEARING FOR ALL LINTELS SHALL BE 8" EACH END.**
3. **BLOCK WALLS SHALL BE GROUTED SOLID 3 COURSES BELOW BEARING POINT FOR A WIDTH OF 16" UNLESS NOTED OTHERWISE ON STRUCTURAL FRAMING PLANS.**
4. **SEE ARCH., HVAC, & PLUMBING DRAWINGS FOR SIZE AND LOCATION OF ALL WALL OPENINGS.**
5. **CONTRACTOR SHALL PROVIDE AN ADDITIONAL 50 FT. OF ANGLE 5 X 3 1/2 X 5/16 OR THE EQUIVALENT.**
6. **FOR LINTEL SPANS GRATER THAN 6'-0", BOLT ASSEMBLIES TOGETHER AT 1/3 POINTS.**
7. **WHERE LINTELS REQUIRE 3 ANGLES, PROVIDE A 3/16" PLATE EQUAL TO WALL WIDTH ACROSS SPAN, ATTACHED TO BOTTOM OF THE LINTEL.**

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OSSINING UNION FREE SCHOOL DISTRICT

HVAC IMPROVEMENTS

PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023

OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	KAB	JJM

SCALE AS NOTED

SHEET TITLE: HVAC SCHEDULES

PROJECT NUMBER 14428.16/17

PES H900 DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION 'ALTERED BY' FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Repl\D Design\06 CAD\AutoCAD\MECH\H9\H900.dwg Date last accessed: 12/10/2020 12:39 PM Date last plotted: 1/6/2021 8:34 AM Plotted By: James Masuka

WIRING LEGEND:

- S. SWITCH
  - (NONE) SINGLE POLE TOGGLE SWITCH
  - 2 TWO POLE TOGGLE SWITCH
  - 3 THREE WAY TOGGLE SWITCH
  - 4 FOUR WAY TOGGLE SWITCH
  - WP SINGLE POLE WEATHER PROOF SWITCH
  - K SINGLE POLE KEYED SWITCH
  - K2 TWO POLE KEYED SWITCH
  - K3 THREE WAY KEYED SWITCH
  - K4 FOUR WAY KEYED SWITCH
  - P SINGLE POLE SWITCH WITH PILOT LIGHT
  - TM SINGLE POLE SWITCH WITH ONE HOUR TIMER
  - T THERMAL SWITCH
  - TP THERMAL SWITCH WITH PILOT LIGHT
  - M MOMENTARY CONTACT SWITCH
- S_{II} ROMAN NUMERAL DESIGNATES NUMBER OF SWITCHES
- S_{a} LOWER CASE LETTER DESIGNATES SWITCH LEG
- SINGLE RECEPTACLE
- PLUG MOLD
- DUPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE
- SPECIAL RECEPTACLE
  - GFI GROUND FAULT CIRCUIT INTERRUPTER
  - WP WEATHER PROOF IN-USE COVER
  - SS SURGE SUPPRESSION
  - C COUNTER HEIGHT
  - TR TAMPER RESISTANT, UL LISTED
  - IG ISOLATED GROUND
  - RT RAIN TITE
  - E EMERGENCY
  - X TYPE X (SEE RECEPTACLE SCHEDULE)
- PP POWER POLE
- RECESSED FLOOR MOUNTED DUPLEX RECEPTACLE
- SURFACE MOUNTED FLOOR RECEPTACLE
- CEILING MOUNTED DUPLEX RECEPTACLE
- —— C —— CONDUIT
- —— W —— EXPOSED LOW VOLTAGE WIRING
- HORIZONTAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES
- VERTICAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES
- —— WM —— WIRE MOLD
- J. JUNCTION BOX
  - F FIRE SYSTEM
  - S SECURITY SYSTEM
- DISCONNECT SWITCH
- WP DISCONNECT SWITCH - WEATHER PROOF (NEMA 3R)
- F FUSED DISCONNECT SWITCH
- COMBINATION FUSED DISCONNECT/ MAGNETIC STARTER SWITCH
  - HOA HAND/OFF/AUTO
  - SS START/STOP
- M MANUAL STARTER
- VSD COMBINATION VARIABLE SPEED DRIVE AND DISCONNECT
- VSD VARIABLE SPEED DRIVE
- ST/SP PUSHBUTTON - START, STOP
- ST/SP/PL PUSHBUTTON - START, STOP, WITH PILOT LIGHT
- UP/DN/SP PUSHBUTTON - UP, DOWN, STOP
- EF-1 MOTOR WITH DESIGNATOR
- TC TIME CLOCK
- WH WATER HEATER
- HD HAND DRYER, HARD WIRED
- T THERMOSTAT
- HVP1-6 BRANCH CIRCUIT HOME RUN WITH PANEL NAME AND CIRCUIT NUMBER, QUANTITY OF ARROWHEADS DENOTES QUANTITY OF BRANCH CIRCUITS
  - GFI BKR. GFI TYPE BREAKER
  - A.F. BKR. ARC FAULT BREAKER
- BRANCH CIRCUIT WIRING, PROVIDE QUANTITIES OF CONDUCTORS REQUIRED FOR CIRCUITING AND SWITCHING AS INDICATED
- POWER LEG ONLY (NO SWITCH LEG BETWEEN ROOMS)
- HARDWIRE CONNECTION
- CONDUIT RISER UP
- CONDUIT RISER DOWN
- T TRANSFORMER
- T_K TYPE "K" TRANSFORMER
- MUSHROOM HEAD PUSH BUTTON (EMERGENCY STOP)
- EMERGENCY BREAK GLASS STATION
- GROUNDING ROD

SINGLE LINE DIAGRAM LEGEND:

- EARTH GROUND
- CHASSIS GROUND
- 45 KVA 480-208/120V K-13 TRANSFORMER - KVA, PRIMARY AND SECONDARY VOLTAGE INDICATED, CONNECTIONS, K-RATING, AND SHIELD SPECIFIED
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- FUSE
- DISCONNECT/LOADBREAK SWITCH
- CIRCUIT BREAKER
- CIRCUIT BREAKER DRAWOUT MOUNTED (LOW VOLTAGE)
- AUTOMATIC TRANSFER SWITCH (NORMAL POSITION SHOWN)
- M METER
- ENCLOSED CIRCUIT BREAKER
- LIGHTNING ARRESTER
- FUSED DISCONNECT SWITCH
- PANEL 208-120V 225A PANELBOARD- RATINGS AS SPECIFIED IN SINGLE LINE DIAGRAM AND ON PANELBOARD SCHEDULE

COMMUNICATIONS LEGEND:

- TELEPHONE (1) CAT3 - TELEPHONE JACK & CABLE
  - (NONE) STANDARD MODULAR JACK FOR TELEPHONE
  - W WALL MOUNTED TELEPHONE MODULAR JACK
  - P PUBLIC TELEPHONE MODULAR JACK
  - C COUNTER HEIGHT MODULAR JACK
- TELEPHONE FLOOR OUTLET (1) CAT3 - TELEPHONE JACK & CABLE
- DATA OUTLET WITH FLUSH BOX AND FACEPLATE (1) CAT5e - DATA JACK & CABLE
- COMPUTER FLOOR OUTLET (1) CAT5e - DATA JACK & CABLE
- COMBINATION TELEPHONE CABLE AND DATA OUTLETS IN DOUBLE GANG FLUSH MOUNTED BOX WITH FACEPLATE
- WT WIRELESS TRANSMITTER (PROVIDED BY OWNER) CONTRACTOR TO PROVIDE (2) CAT5e DATA JACKS & CABLING
- T/D BACK BOX FOR OWNER PROVIDED TEL/COM WIRING & DEVICES
- DATA RACK
- COAX CABLE (TYPE F CONNECTOR)
- CEILING MOUNT LCD PROJECTOR
- SPEAKER (PUBLIC ADDRESS)
  - (NONE) CEILING MOUNTED
  - W WALL MOUNTED
- SPEAKER (LOCAL SOUND SYSTEM)
- SPEAKER HORN
- MICROPHONE JACK
- SJ SPEAKER JACK
- V VOLUME CONTROL
- CLOCK
- DOUBLE FACE CLOCK
- CS COMBINATION CLOCK AND SPEAKER
- IC INTERCOM STATION
- PA MIC REMOTE PRE-AMPLIFIER AND PAGING MICROPHONE
- CJ CONSOLE JACK
- HL HOUSE LIGHT CONTROL STATION
- WB WALL BOX AS SPECIFIED
- FB FLOOR BOX

NOTE:

SYMBOLS SHOWN ON THIS ELECTRICAL SYMBOLS LIST ARE FOR REFERENCE PURPOSES ONLY. ALL OF THESE SYMBOLS MAY NOT BE USED FOR THIS PROJECT.

FIRE/LIFE SAFETY LEGEND:

- F FIRE ALARM PULL STATION
- FB FIRE ALARM BELL
- FH FIRE ALARM HORN
- FS FIRE ALARM HORN AND STROBE COMBINATION
- FS WP FIRE ALARM HORN AND STROBE COMBINATION, WEATHER PROOF
- FS FIRE ALARM SPEAKER
- FS C FIRE ALARM SPEAKER - CEILING MOUNTED
- FS FIRE ALARM SPEAKER AND STROBE COMBINATION
- FST FIRE ALARM STROBE
- FST FIRE ALARM STROBE - CEILING MOUNTED
- SMOKE DETECTOR
- SD WG SMOKE DETECTOR WITH GUARD
- CO CARBON MONOXIDE DETECTOR
- CH4 NATURAL GAS SENSOR
- HEAT DETECTOR
- COMBINATION SMOKE/HEAT DETECTOR
- HD F HEAT DETECTOR - 190° FIXED TEMPERATURE
- HD EXP HEAT DETECTOR - EXPLOSION PROOF
- BT BEAM SMOKE DETECTOR TRANSMITTER
- BR BEAM SMOKE DETECTOR RECEIVER
- DUCT DETECTOR
  - SA INDICATES INSTALLATION IN SUPPLY AIR
  - RA INDICATES INSTALLATION IN RETURN AIR
- RTS REMOTE TEST STATION FOR DUCT DETECTOR
- R FIRE ALARM SHUT DOWN RELAY
- DH FIRE DOOR HOLD OPEN
- TAMPER SWITCH
- FLOW SWITCH
- FSS FIRE SUPRESSION ANSUL SYSTEM CONNECTION
- FR SMOKE DAMPER RELAY CONNECTION
  - SD/FD SMOKE DAMPER AND FIRE DAMPER
  - SD SMOKE DAMPER
- CONTROL MODULE, ADDRESSABLE
- AREA OF RESCUE CALL STATION
- ADA AREA OF RESCUE MASTER TELEPHONE STATION

SECURITY LEGEND:

- KP SECURITY KEY PAD
- VIDEO CAMERA
- VM CCTV VIDEO MONITOR
- MD PASSIVE INFRARED MOTION DETECTOR
- PR PROXIMITY CARD READER
- C CALL SWITCH
- DC DOOR CONTACT
- WC WINDOW CONTACT
- ES ELECTRIC STRIKE DOOR RELEASE
- MI MAGNETIC DOOR RELEASE

NURSE CALL LEGEND:

- CB NURSE CALL BUTTON
- P NURSE CALL PATIENT BED STATION
- B CODE CALL BUTTON
- SA NURSE CALL STAFF ASSIST STATION
- S NURSE CALL STAFF STATION
- SD NURSE CALL DUTY/STAFF STATION
- D NURSE CALL DUTY STATION
- NURSE CALL LIGHT
- NURSE CALL CODE LIGHT
- NURSE CALL ZONE LIGHT
- M NURSE CALL MASTER STATION
- E NURSE CALL EMERGENCY PULL STATION
- IR NURSE CALL INFRARED SENSOR

LIGHT FIXTURE LEGEND:

- XX LIGHTING FIXTURE (SEE LIGHTING FIXTURE SCHEDULE FOR LETTER DESIGNATION AND DESCRIPTION OF FIXTURES)
- EMERGENCY AND/OR NIGHT LIGHT LIGHTING FIXTURE
- EXIT LIGHTING FIXTURE UNIVERSAL MOUNT, SINGLE/DOUBLE FACE (WHERE USED, ARROW INDICATES CHEVRON DIRECTION)
- BATTERY POWERED EMERGENCY LIGHT
- EMERGENCY LIGHT REMOTE HEAD
- TRACK LIGHTING
- POLE MOUNTED LIGHTING (QUANTITY AND ORIENTATION OF HEADS AS SHOWN)
- OS OCCUPANCY SENSOR - CEILING MOUNTED
- VS VACANCY SENSOR - CEILING MOUNTED
- OSW OCCUPANCY SENSOR - WALL MOUNTED
- LC LIGHTING CONTACTOR
- PC PHOTOCELL
- S. SWITCH
  - LV LOW VOLTAGE 1-4 BUTTON STATION (CONNECT TO LIGHTING CONTROL STATION)
  - O OCCUPANCY SENSOR SWITCH
  - D DIMMER (INCANDESCENT)
  - D3 THREE WAY DIMMER (INCANDESCENT)
  - DF DIMMER (FLUORESCENT)
  - V VACANCY SENSOR SWITCH

PANEL LEGEND:

- EXISTING ELECTRICAL PANEL
- XXX NEW ELECTRICAL PANEL
  - MDP MAIN DISTRIBUTION PANEL
  - LVP LOW VOLTAGE PANEL
  - HVP HIGH VOLTAGE PANEL
  - LP LIGHTING CONTROL PANEL
  - IG ISOLATED GROUND PANEL
  - MSB MAIN SWITCH BOARD
  - MCC MOTOR CONTROL CENTER
  - TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
- ATS AUTOMATIC TRANSFER SWITCH
- XXX ELECTRICAL SYSTEMS PANEL
  - SACP SECURITY ALARM CONTROL PANEL
  - FACP FIRE ALARM CONTROL PANEL
  - PA PUBLIC ADDRESS CONTROL PANEL
  - FAAP FIRE ALARM ANNUNCIATOR PANEL

ELECTRICAL PANELBOARD LABELING PLACARD

LINE 1 - PANELBOARD NAME: PP1 (EXAMPLE)
LINE 2 - VOLTAGE AND PHASE:480/277V-3PH-4W (EXAMPLE)
LINE 3 - WHERE PANELBOARD IS FED FROM: FF MSB BREAKER #14 (EXAMPLE)

GENERAL ELECTRICAL NOTES:

1) HATCHED AREAS ////// DESIGNATE EXISTING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.
2) ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2014 EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70).
3) CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND COORDINATE WITH EXISTING EQUIPMENT PRIOR TO BIDDING.

BUILDING:

4) INSTALLATION HEIGHT TO CENTER OF EQUIPMENT ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED TO BE:
   - RECEPTACLE = 18"
   - SWITCH = 44"
   - MODULAR JACK FOR WALL MOUNTED TELEPHONE = 52"
   - MODULAR TELEPHONE JACK = 18"
   - AUDIO/VISUAL FIRE ALARM INDICATORS = 88"
   - FIRE ALARM PULL STATIONS = 48"
   - TELEVISION OUTLET = 7'-0"
   - COMPUTER OUTLET = 18"
   - CALL SWITCH = 44"
   - REMOTE TEST STATION FOR DUCT DETECTOR = 52"
   - C = ABOVE COUNTER BACKSPLASH, COORDINATE WITH ARCHITECTURAL ELEVATIONS AND MILLWORK.
5) INSTALL DATA JACKS FOR CEILING MOUNTED WIRELESS TRANSMITTERS ABOVE CEILING IN ALL AREAS WHERE THERE IS AN ACCESSIBLE CEILING. PROVIDE FLUSH MOUNTED JACKS IN ALL HARD CEILINGS.
6) ALL CONDUIT AND WIRING TO BE CONCEALED IN WALLS, FLOOR, OR ABOVE CEILINGS UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. WHERE APPROVED OR NOTED, SURFACE METAL RACEWAY AND DEVICE BOXES SHALL BE USED IN-LIEU OF CONDUIT AND CONCEALED BOXES AT NO EXTRA COST TO THE OWNER.
7) ALL CONDUIT ROUTES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTE.
8) CONDUIT RUNS SHOWN ARE SCHEMATICAL AND DO NOT INDICATE THE NECESSARY FITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK.

GROUNDING:

9) ALL METAL RACEWAYS, INCLUDING CONDUIT, WIRE TROUGHS, WIREMOLD, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.

WIRING:

10) UNLESS NOTED OTHERWISE ON THE DRAWINGS OR ON THE EQUIPMENT WIRING SCHEDULE, EACH BRANCH CIRCUIT SHALL BE THREE (3) #12 AWG THHN/THWN (1 HOT, 1 NEUTRAL & 1 EQUIPMENT GROUND) IN 3/4" EMT CONDUIT. PROTECT EACH CIRCUIT WITH A 20 AMPERE, 1-POLE OVERCURRENT DEVICE UNLESS OTHERWISE NOTED. PROVIDE #10 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 100 FEET. COMBINED NEUTRALS ARE NOT PERMITTED.

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OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	MAY	JBT

SCALE AS NOTED

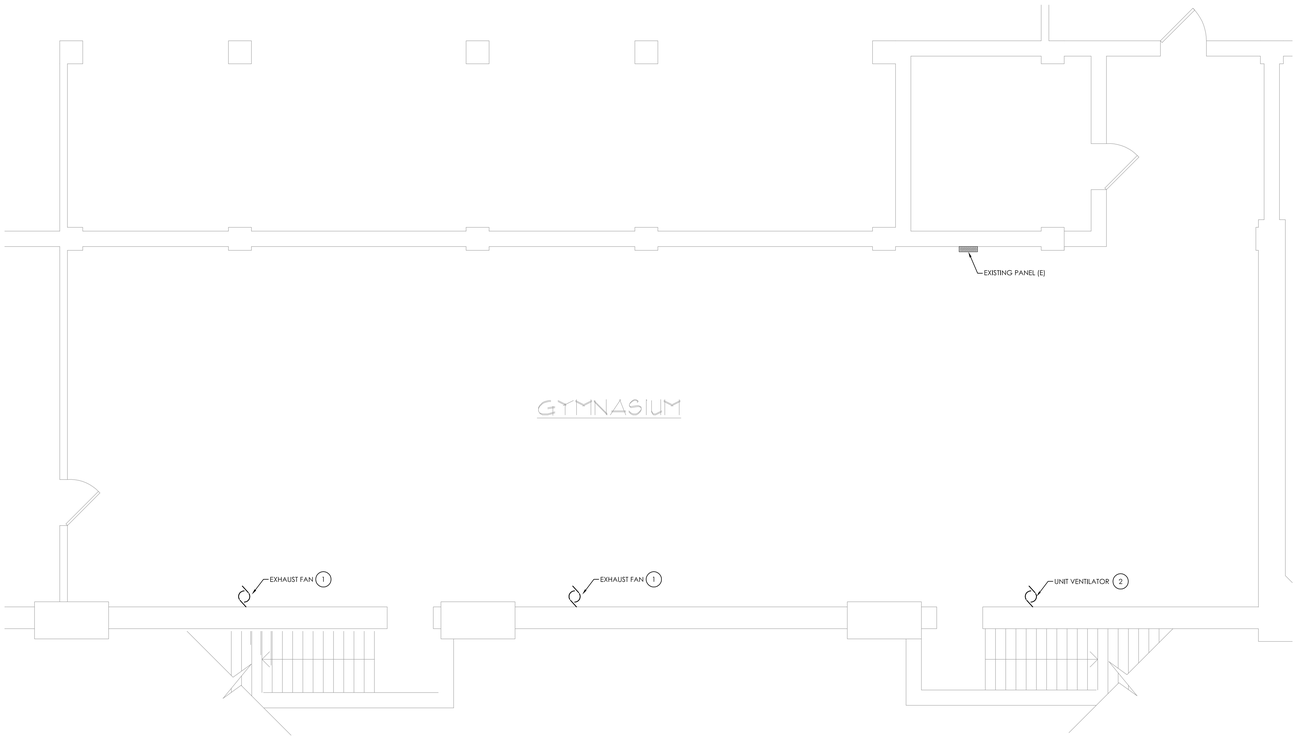
SHEET TITLE
ELECTRICAL LEGEND & NOTES

PROJECT NUMBER 14428.16/17

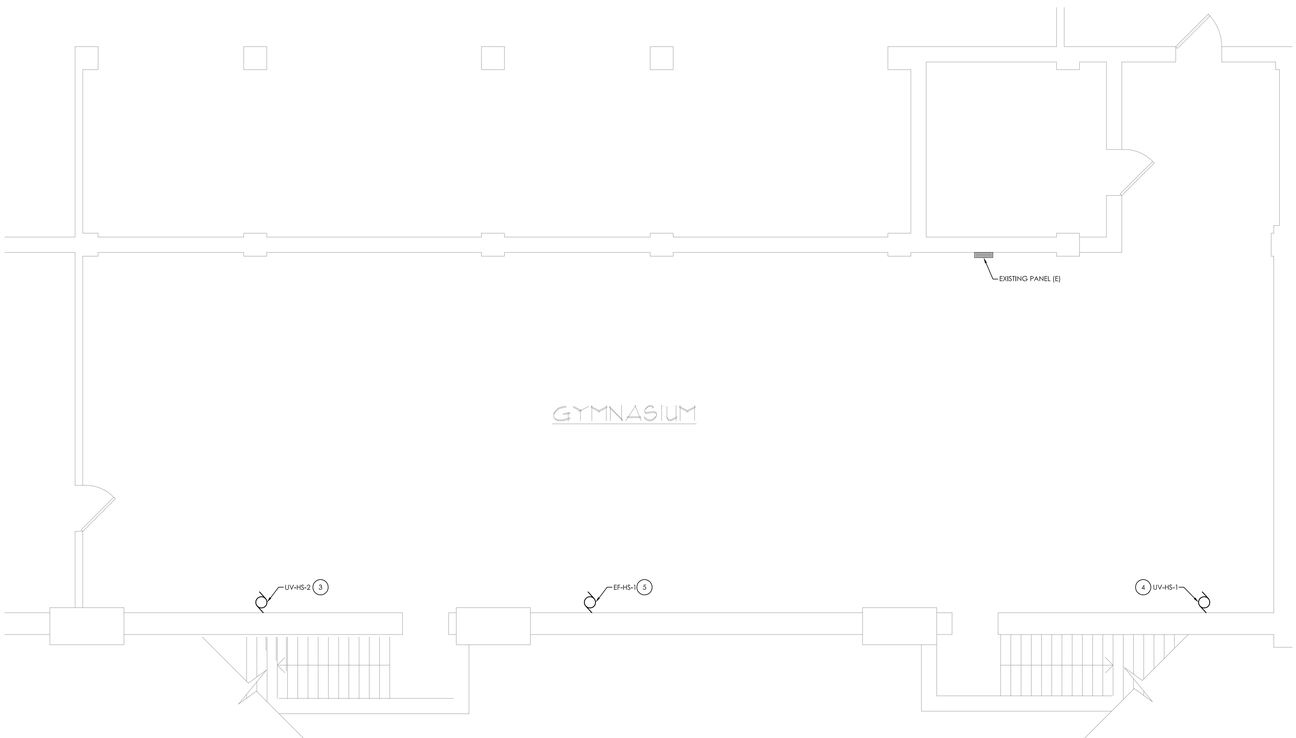
PES
E000
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION 'ALTERED BY' FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: S:\Projects\Ossining UFSD\Park ECC LIV Repl\D Design\06 CAD\AutoCAD\ELEC\EDI\PARK - E000.dwg
Date last accessed: 11/24/2020 10:02 AM
Date last plotted: 1/6/2021 8:36 AM
Plotted By: Jeffery Teeter



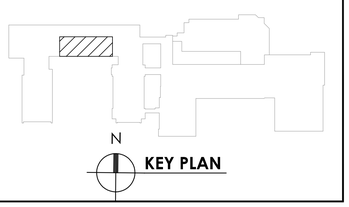
1 E100 BASEMENT ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



2 E100 BASEMENT ELECTRICAL NEW WORK PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES:

1. EXISTING EXHAUST FAN TO BE REMOVED. EXISTING RECEPTACLE TO REMAIN.
2. EXISTING UNIT VENTILATOR TO BE REMOVED. DISCONNECT AND REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE.
3. PROVIDE (2) #12, (1) #12 GND IN 3/4" CONDUIT FROM UV-HS-2 TO EXISTING PANEL WITHIN ROOM. UTILIZE EXISTING SPARE CIRCUIT BREAKER #7. LABEL CIRCUIT BREAKER ACCORDINGLY.
4. PROVIDE (2) #12, (1) #12 GND IN 3/4" CONDUIT FROM UV-HS-1 TO EXISTING PANEL WITHIN ROOM. UTILIZE EXISTING SPARE CIRCUIT BREAKER #8. LABEL CIRCUIT BREAKER ACCORDINGLY.
5. PROVIDE (2) #12, (1) #12 GND IN 3/4" CONDUIT FROM EXHAUST FAN EF-HS-1 TO EXISTING PANEL WITHIN ROOM. UTILIZE EXISTING SPARE CIRCUIT BREAKER #9. LABEL CIRCUIT BREAKER ACCORDINGLY.



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DATE	DRAWN	CHECKED
8/28/2020	MAY	JBT

SCALE AS NOTED

SHEET TITLE
BASEMENT ELECTRICAL DEMOLITION AND NEW WORK PLAN

PROJECT NUMBER
14428.16/17

HS
E100
DRAWING NUMBER

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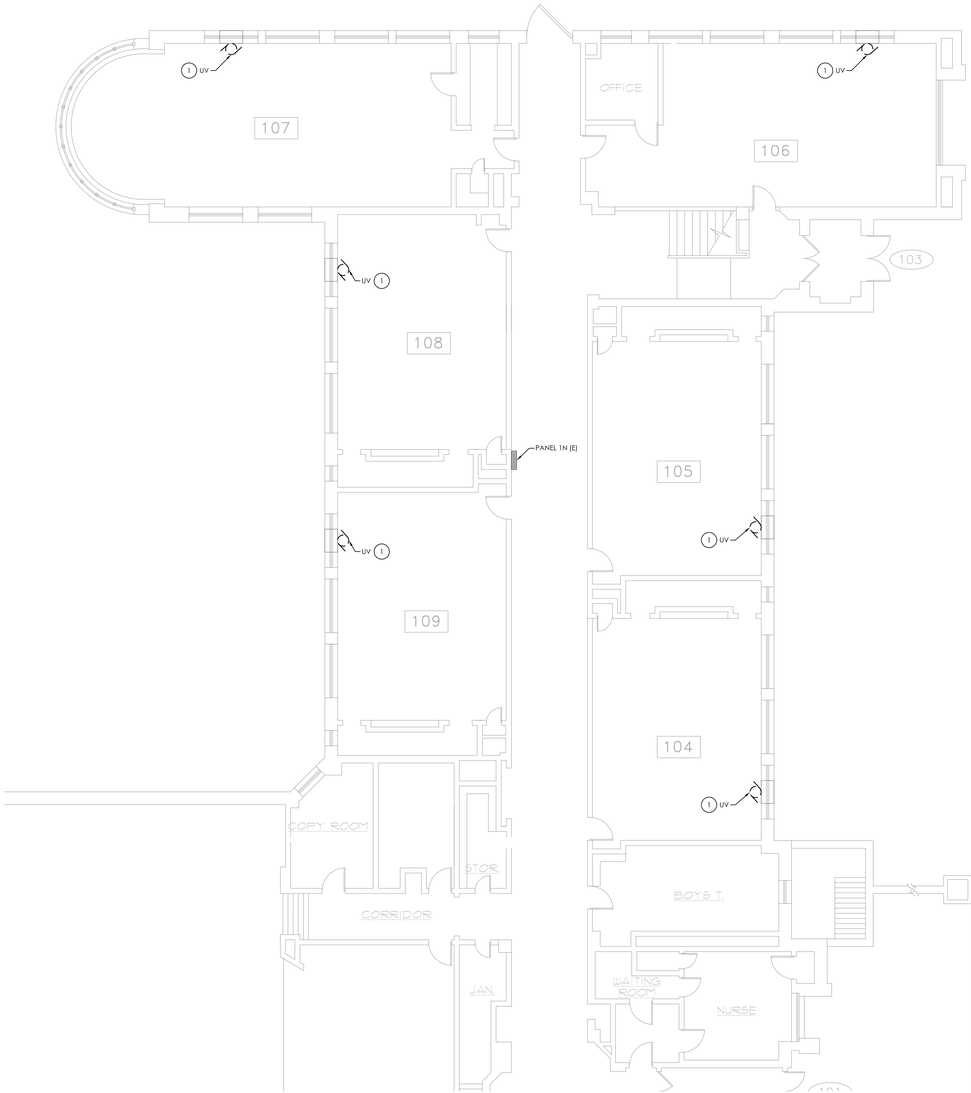
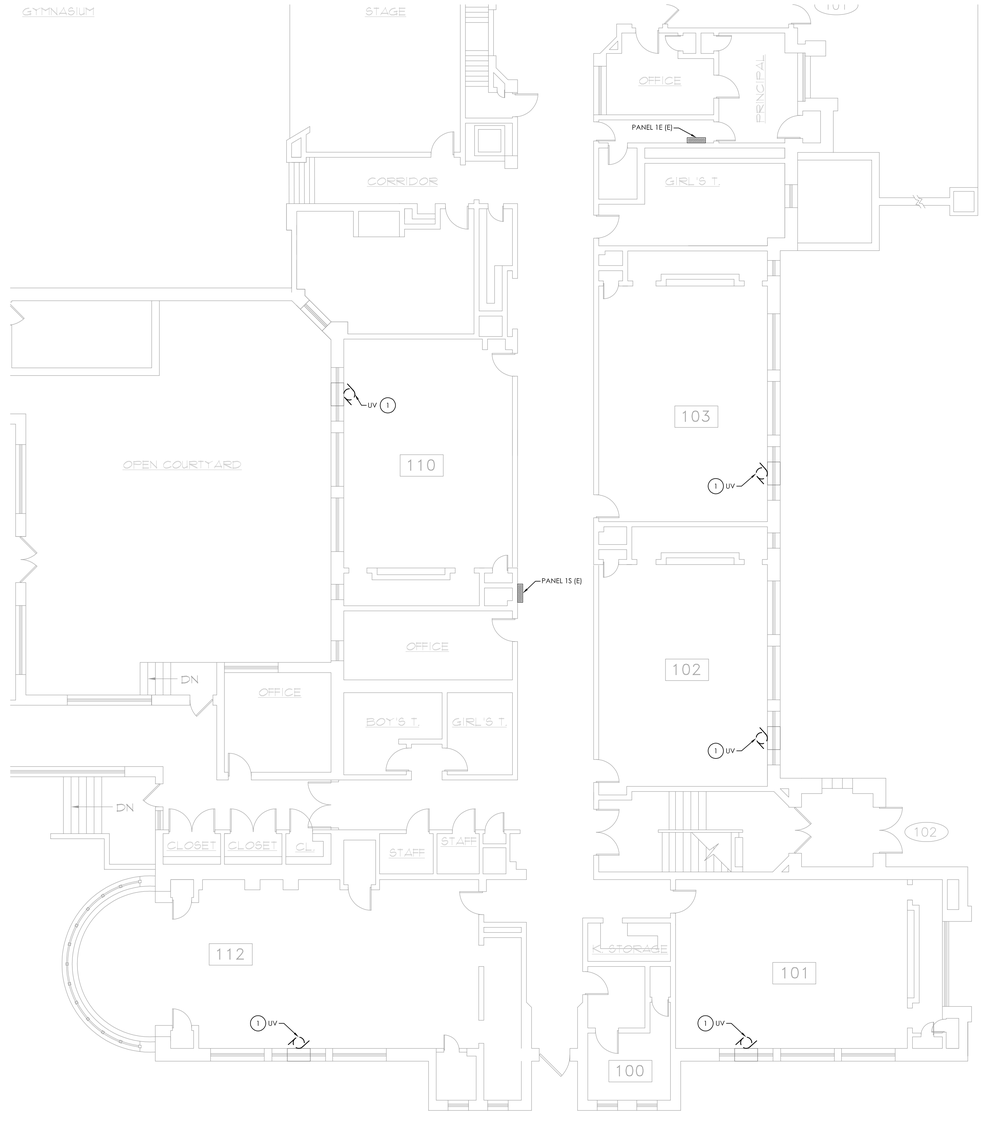
Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Resp\10 Design\06 CAD\AutoCAD\ELEC\E1\HS - E100.dwg
Date last accessed: 11/24/2020 10:01 AM
Plotted By: Jeffery Teeter
Date last plotted: 1/6/2021 8:39 AM

KEY NOTES:

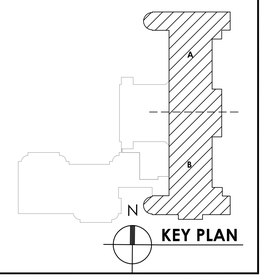
1. DISCONNECT EXISTING CONDUIT AND WIRE FEEDING UNIT VENTILATOR AND PULL BACK TO AN AREA OUTSIDE OF DEMOLITION. TAG FOR RE-USE.



1 E101 FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA A
SCALE: 1/8" = 1'-0"



2 E101 FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA B
SCALE: 1/8" = 1'-0"



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OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	MAY	JBT

SCALE AS NOTED

SHEET TITLE
FIRST FLOOR ELECTRICAL DEMOLITION PLAN

PROJECT NUMBER
14428.16/17

PES
E101
DRAWING NUMBER

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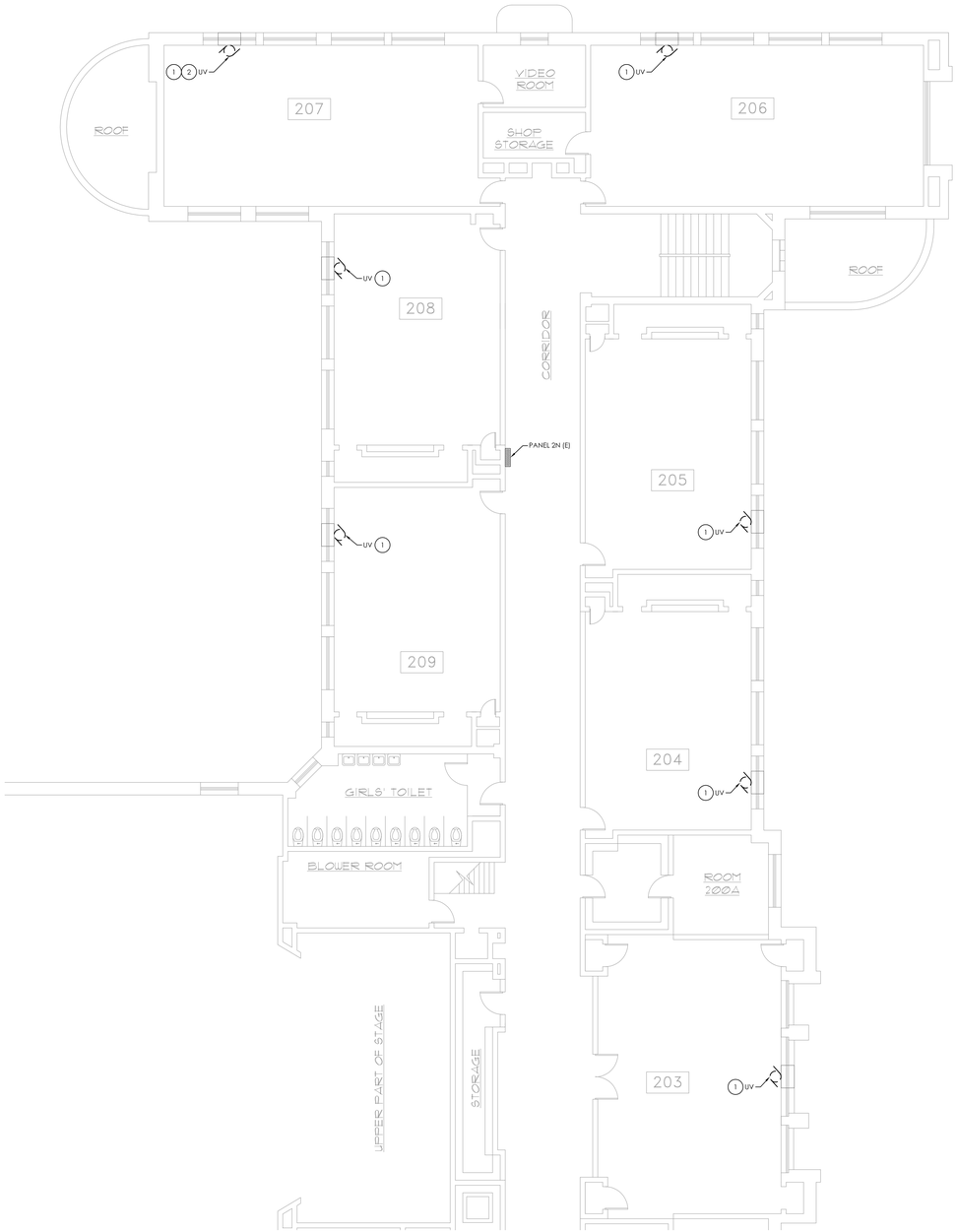
Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Repl\D Design\06 CAD\AutoCAD\ELEC\E1\PARK - E101.dwg Date last accessed: 11/24/2020 10:01 AM Date last plotted: 1/6/2021 8:40 AM Plotted By: Jeffery Teeter

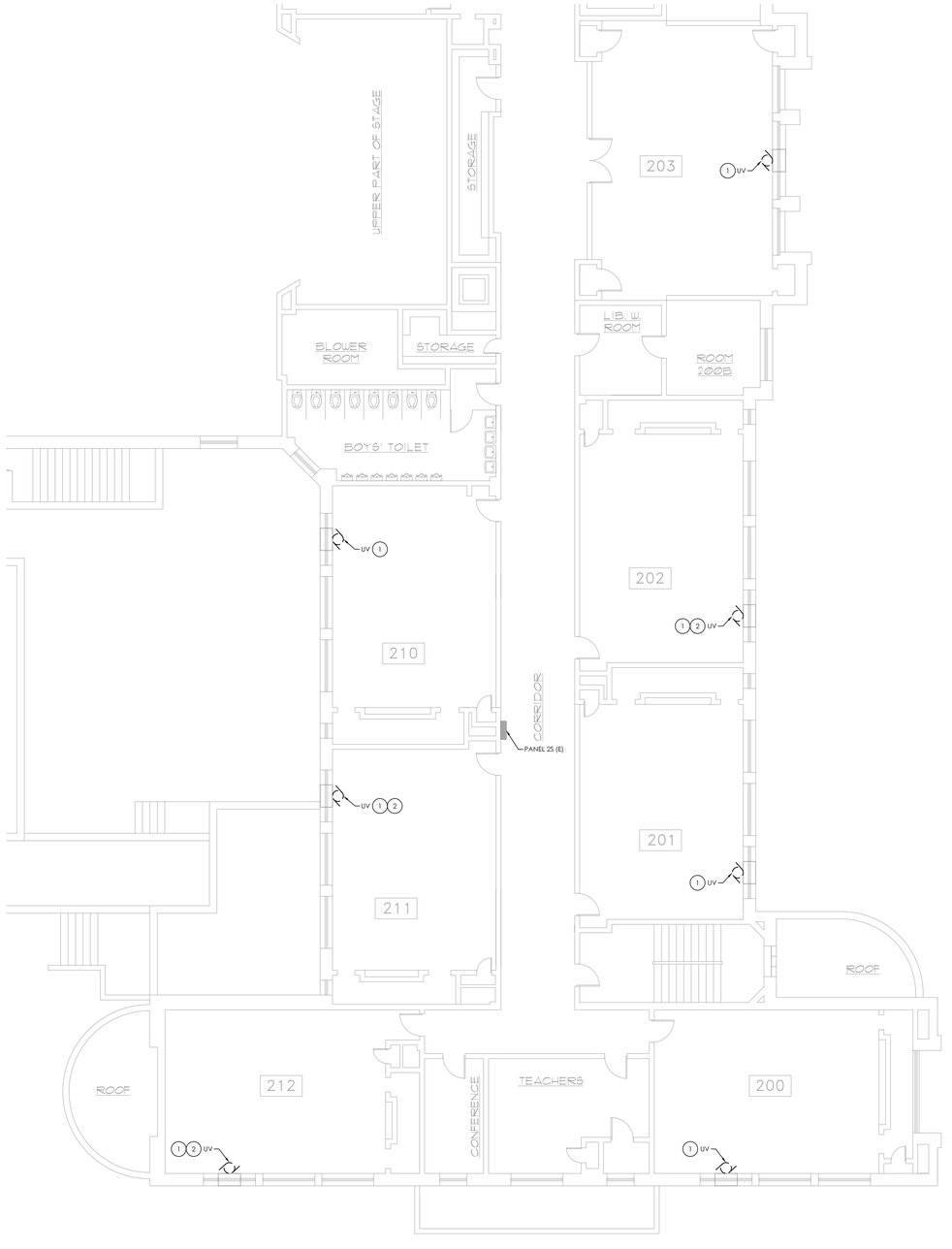
KEY NOTES:

1. DISCONNECT EXISTING CONDUIT AND WIRE FEEDING UNIT VENTILATOR AND PULL BACK TO AN AREA OUTSIDE OF DEMOLITION. TAG FOR RE-USE.

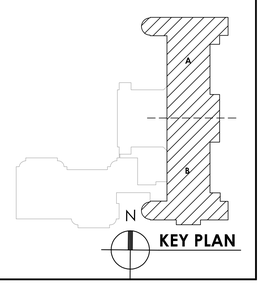
EXISTING CONDUIT/WIRING/WIREMOLD TO BE RELOCATED TO AREA OUTSIDE OF NEW UNIT VENTILATOR FOOT PRINT. REWORK/EXTEND ALL CONDUIT/WIRING/WIREMOLD AS NECESSARY TO ACCOMMODATE NEW UNIT VENTILATOR.



1 E102 SECOND FLOOR ELECTRICAL DEMOLITION PLAN - AREA A
SCALE: 1/8" = 1'-0"



2 E102 SECOND FLOOR ELECTRICAL DEMOLITION PLAN - AREA B
SCALE: 1/8" = 1'-0"



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OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	MAY	JBT

SCALE AS NOTED

SHEET TITLE
SECOND FLOOR ELECTRICAL DEMOLITION PLAN

PROJECT NUMBER
14428.16/17

PES
E102
DRAWING NUMBER

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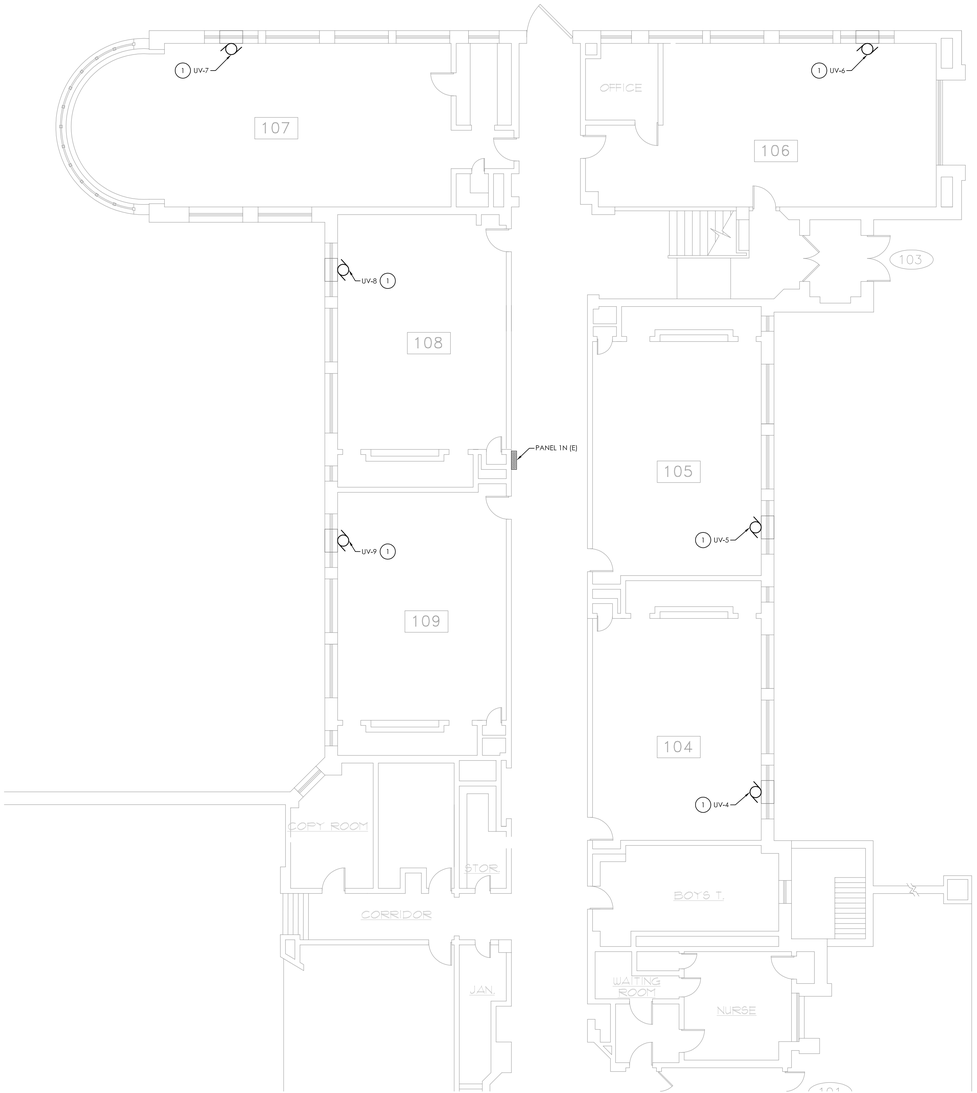
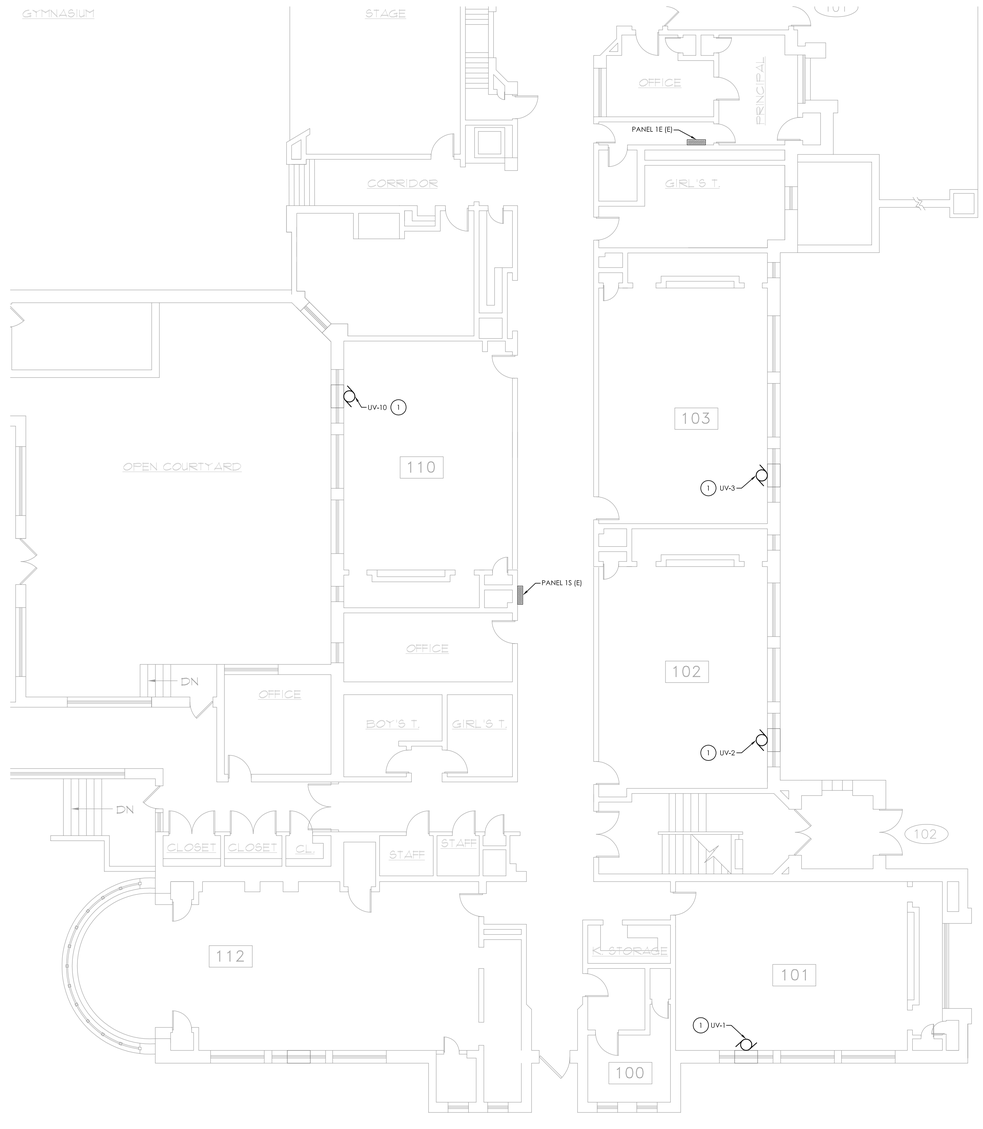
Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Repl\D Design\Vis CAD\AutoCAD\ELEC\E1\PARK - E102.dwg
Date last accessed: 11/24/2020 10:01 AM
Plotted By: Jeffery Teeter
Date last plotted: 1/6/2021 8:37 AM

KEY NOTES:

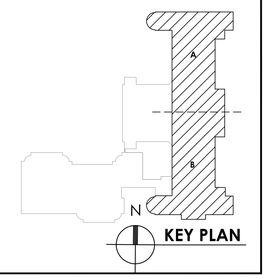
1. CONNECT NEW UNIT VENTILATOR TO EXISTING TAGGED CIRCUITRY. REWORK/EXTEND EXISTING CIRCUITRY AS NECESSARY TO ACCOMMODATE NEW UNIT VENTILATOR.



1 E201 FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA A
SCALE: 1/8" = 1'-0"



2 E201 FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA B
SCALE: 1/8" = 1'-0"



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DATE	DRAWN	CHECKED
8/28/2020	MAY	JBT

SCALE AS NOTED

SHEET TITLE
FIRST FLOOR ELECTRICAL NEW WORK PLAN

PROJECT NUMBER
14428.16/17

PES
E201
DRAWING NUMBER

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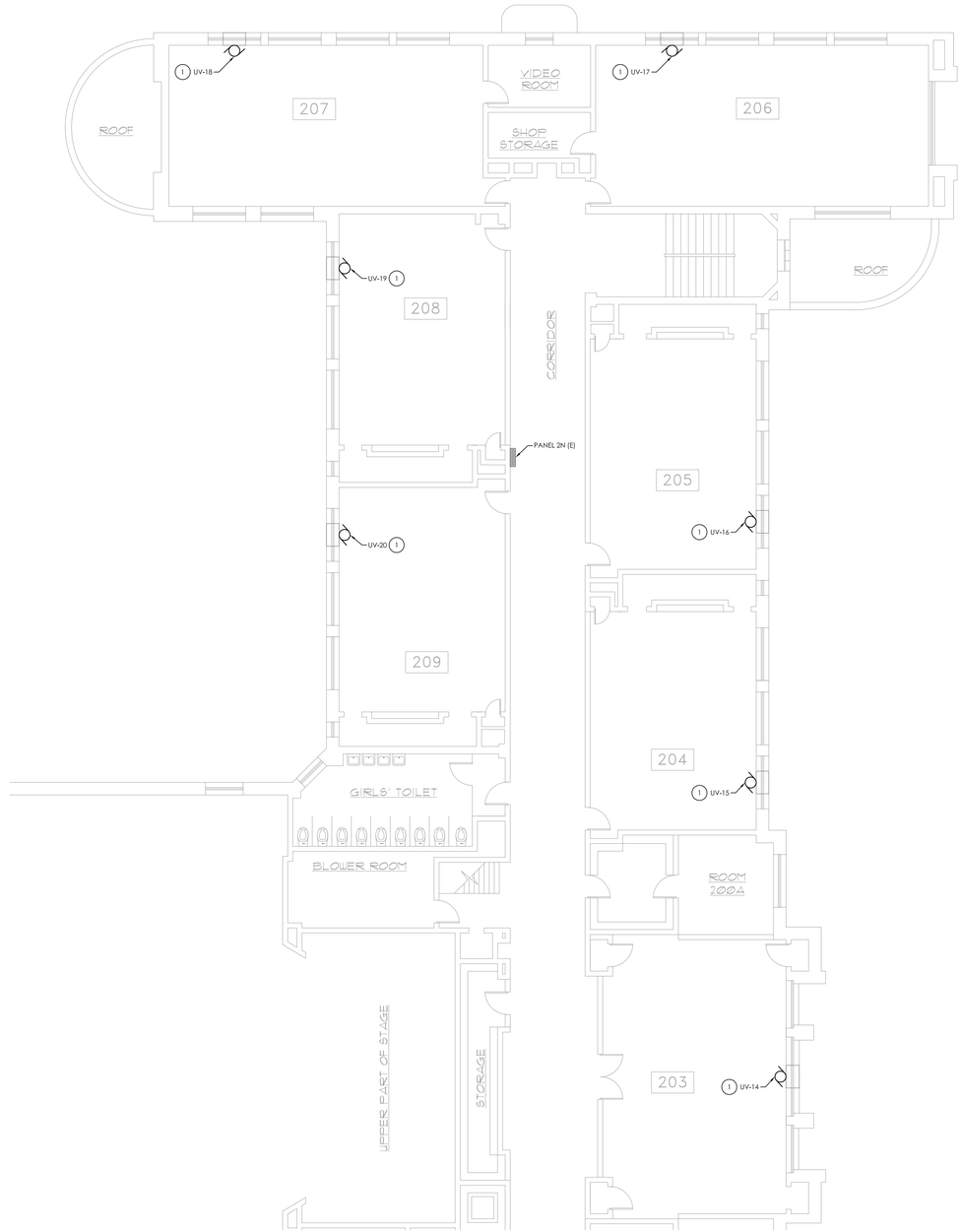
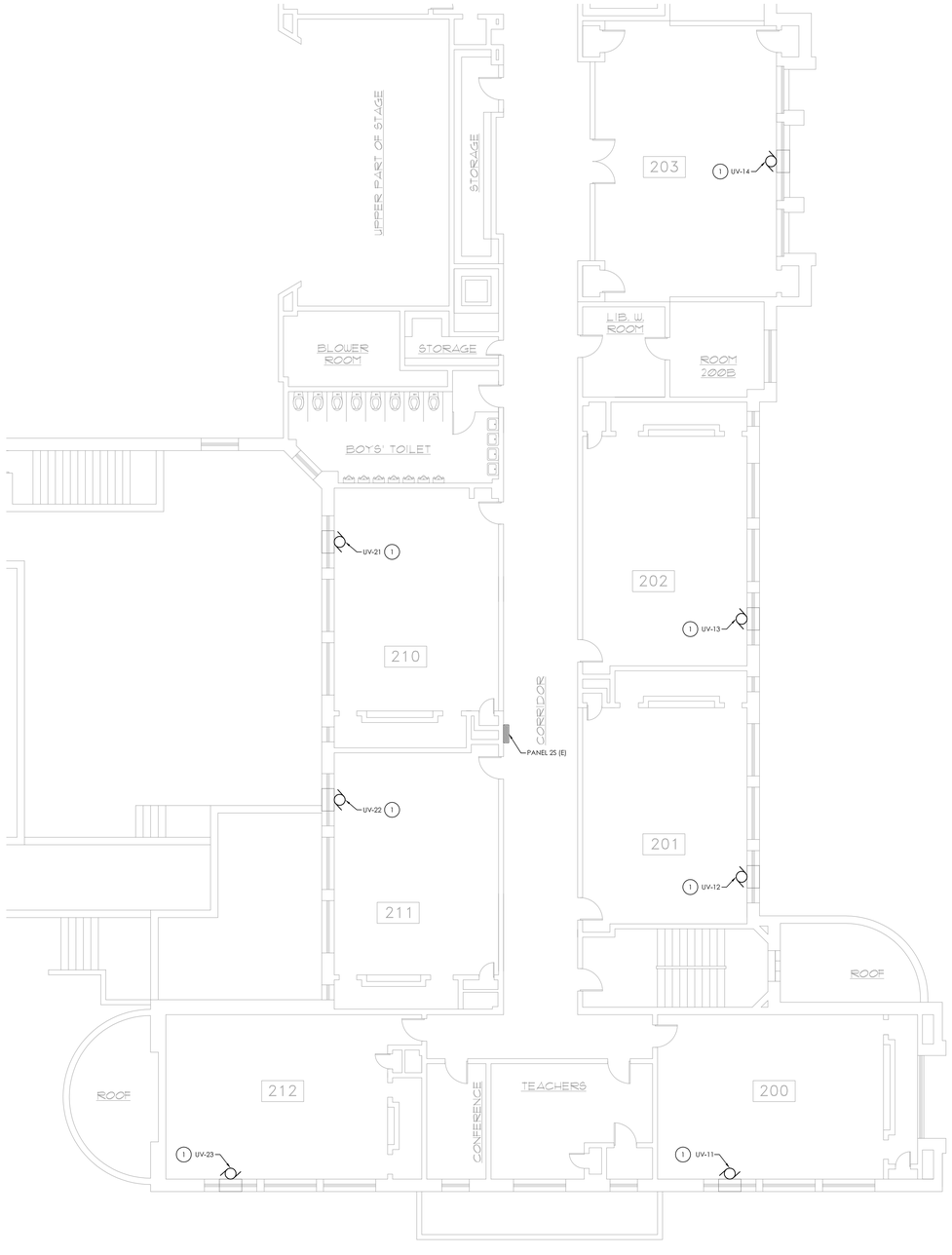
Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Repl\D Design\06 CAD\AutoCAD\ELEC\E2\PARK - E201.dwg
Date last accessed: 11/24/2020 10:04 AM
Date last plotted: 1/6/2021 8:42 AM
Plotted By: Jeffery Teeter

KEY NOTES:

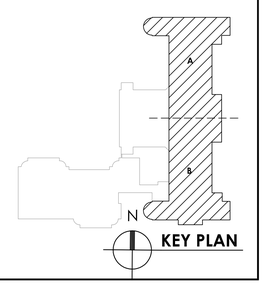
1. CONNECT NEW UNIT VENTILATOR TO EXISTING TAGGED CIRCUITRY. REWORK/EXTEND EXISTING CIRCUITRY AS NECESSARY TO ACCOMMODATE NEW UNIT VENTILATOR.



1 / E202 SECOND FLOOR ELECTRICAL NEW WORK PLAN - AREA A
SCALE: 1/8" = 1'-0"



2 / E202 SECOND FLOOR ELECTRICAL NEW WORK PLAN - AREA B
SCALE: 1/8" = 1'-0"



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DATE	DRAWN	CHECKED
8/28/2020	MAY	JBT

SCALE AS NOTED

SHEET TITLE
SECOND FLOOR ELECTRICAL NEW WORK PLAN

PROJECT NUMBER
14428.16/17

PES
E202
DRAWING NUMBER

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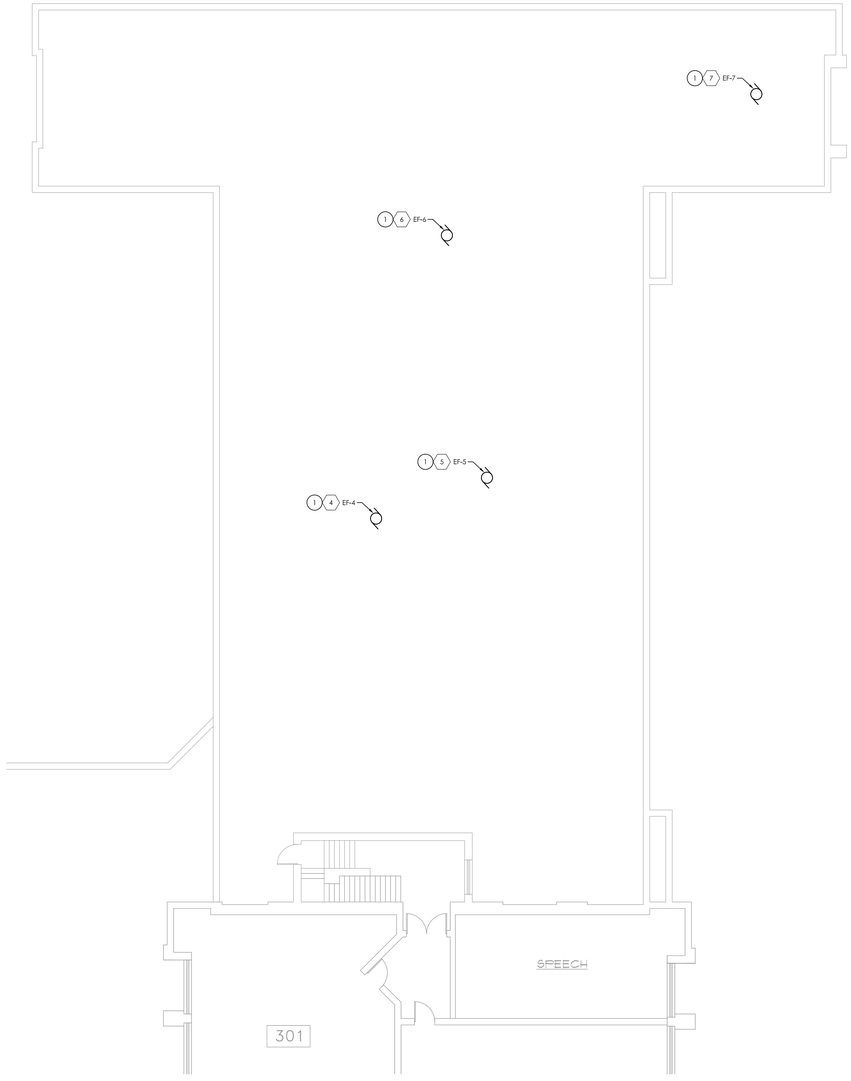
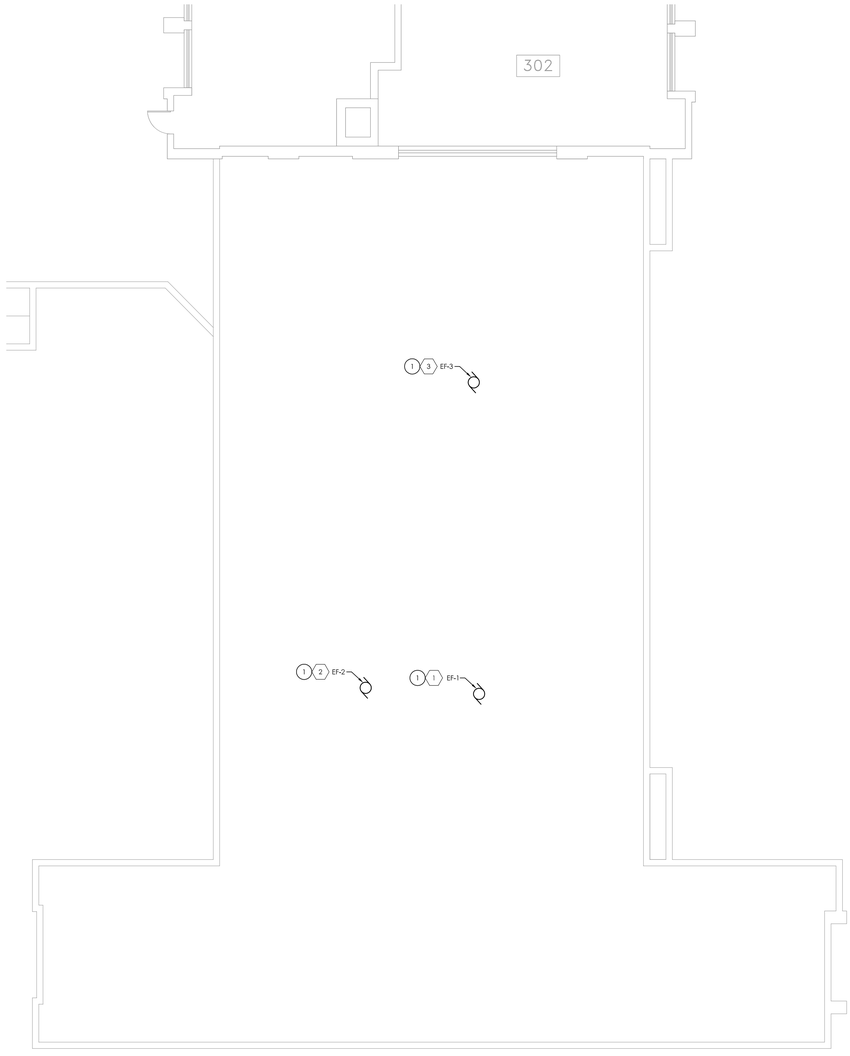
Date last accessed: 11/24/2020 10:03 AM
Plotted By: Jeffery Teeter
Date last plotted: 1/6/2021 8:42 AM

KEY NOTES:

1. PROVIDE NEW CIRCUIT BREAKERS IN PANELS NOTED ON ELECTRICAL EQUIPMENT WIRING SCHEDULE. CIRCUIT BREAKERS TO BE UL LISTED AND LABELED AND MATCH AIC RATING OF PANEL.



1 E203 ROOF ELECTRICAL NEW WORK PLAN - AREA A
SCALE: 1/8" = 1'-0"



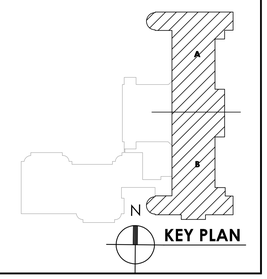
2 E203 ROOF ELECTRICAL NEW WORK PLAN - AREA B
SCALE: 1/8" = 1'-0"

ELECTRICAL EQUIPMENT WIRING SCHEDULE

ITEM NUMBER	EQUIPMENT	ROOM NUMBER	HP/ FLA	VOLTS	PHASE	AMPS	BREAKER SIZE/ FUSE SIZE	WIRE/CONDUIT SIZE	PANEL/CCT	REMARKS
1	EF-1	ROOF	2	208	3	7.8A	20A/3P	(3) #8, (1) #10G IN 1"C	1S-1S,17,19	1.2
2	EF-2	ROOF	2	208	3	7.8A	20A/3P	(3) #10, (1) #12G IN 3/4"C	2S-18,20,22	1.2
3	EF-3	ROOF	2	208	3	7.8A	20A/3P	(3) #10, (1) #12G IN 3/4"C	2S-25,27,29	1.2
4	EF-4	ROOF	2	208	3	7.8A	20A/3P	(3) #10, (1) #12G IN 3/4"C	2N-29,31,33	1.2
5	EF-5	ROOF	2	208	3	7.8A	20A/3P	(3) #10, (1) #12G IN 3/4"C	2N-30,32,34	1.2
6	EF-6	ROOF	1	208	1	8A	20A/2P	(2) #10, (1) #12G IN 3/4"C	2N-35,37	1.2
7	EF-7	ROOF	1	208	1	8A	20A/2P	(2) #10, (1) #12G IN 3/4"C	2N-39,41	1.2

REMARKS:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE MOUNTING, AND LINE/LOAD SIDE CONNECTIONS OF DISCONNECT AND/OR STARTER DEVICE ASSOCIATED WITH UNIT. MEANS OF DISCONNECT AND/OR STARTER ASSOCIATED WITH UNIT PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.
2. PROVIDE FIRE ALARM FAN SHUT DOWN AT EACH UNIT INDICATED.



KEY PLAN

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OSSINING UNION FREE SCHOOL DISTRICT

HVAC IMPROVEMENTS

PARK EARLY CHILDHOOD CENTER SED #66-14-01-03-0-004-023
OSSINING HIGH SCHOOL SED #66-14-01-03-0-003-042

DATE	DRAWN	CHECKED
8/28/2020	MAY	JBT

SCALE AS NOTED

SHEET TITLE
ROOF ELECTRICAL NEW WORK PLAN

PROJECT NUMBER
14428.16/17

PES
E203
DRAWING NUMBER

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Drawing Name: S:\Projects\Ossining UFSD\Park ECC UV Repl\D Design\06 CAD\AutoCAD\ELEC\E2\PARK - E203.dwg Date last accessed: 11/24/2020 10:05 AM Date last plotted: 1/6/2021 8:41 AM Plotted By: Jeffery Teeter