Owego Apalachin School District

OACSD Capital Project
PHASE 4

OFA SED #60-06-01-06-0-009-034
AES SED #60-06-01-06-0-008-018
HIGHLAND PROJECT #2024-240P

LIST OF DRAWINGS

GENERAL DRAWINGS (G)
COMMON TO ALL SCHOOLS LISTED

GENERAL - ALL TRADES

G-000	COVER SHEET & SHEET INDEX
G-001	GENERAL NOTES
G-002	ADA STANDARDS & ABBREVIATIONS

LOCATION



OWEGO FREE ACADEMY (OFA)
5 SHELDON GUILE BOULEVARD | OWEGO, NY 13827
NYSED #60-06-01-06-0-009-034

CIVIL

OFA L0.01	SITE SURVEY
OFA L0.02	SITE LEGEND AND SITE NOTES
OFA L0.03	SITE PREPARATION PLAN
OFA L1.01	SWPPP
OFA L1.02	SWPPP LEGEND, NOTES, AND DETAILS
OFA L1.03	GRADING PLAN
OFA L1.04	DRAINAGE AND UTILITY PLAN
OFA L1.05	LAYOUT PLAN
OFA L1.06	BLEACHER PLAN AND DETAILS
OFA L9.00	SITE DETAILS
OFA L9.01	SITE DETAILS
OFA L9.02	SITE DETAILS

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OFA S-101	EXISTING ROOF FRAMING PLAN - PARTIAL PART B
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OFA CC-100B	CODE COMPLIANCE PLAN (PART B) - HIGH SCHOOL 1ST FLOOR
OFA CC-101A	CODE COMPLIANCE PLAN (PART A) - MIDDLE SCHOOL 2ND FLOOR
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OFA A-140	PARTIAL ROOF PLAN, LEGEND & NOTES - HIGH SCHOOL ROOF
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OFA A-403	ENLARGED ENGLISH WING - DEMOLITION PLAN, RENOVATION PLAN & RCP
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OFA M-200	2ND FLOOR PARTIAL PLAN ROOMS 269-280 RENOVATION PLAN
OFA M-201	2ND FLOOR PARTIAL PLAN TECH AREA RENOVATION PLAN
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OFA E-003	2ND FLOOR ELECTRICAL COMPOSITE PLAN - PART B
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OFA ED-100	ELECTRICAL DEMOLITION PLANS - POOL LOCKERS, GENERAL TOILETS & POOL LIGHTING
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OFA E-100	PARTIAL 1ST FLOOR ELECTRICAL PLANS - POOL LOCKERS & GENERAL TOILETS
OFA E-101	PARTIAL 2ND FLOOR ELECTRICAL PLANS - ROOMS 269-280
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PLUMBING

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OFA P-102	INCOMING WATER SERVICE - DEMOLITION & RENOVATION PLAN
OFA P-201	2ND FLOOR PLUMBING DEMOLITION AND RENOVATION PLAN
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OFA P-400	PLUMBING DETAILS & SCHEDULES

LOCATION



APALACHIN ELEMENTARY SCHOOL (AES)
405 PENNSYLVANIA AVE | APALACHIN NY 13827
NYSED #60-06-01-06-0-008-018

STRUCTURAL

AES S-001	GENERAL NOTES & DESIGN DATA
AES S-101	EXISTING ROOF FRAMING PLAN

ARCHITECTURAL

AES CC-100	CODE COMPLIANCE PLAN - ELEMENTARY SCHOOL
AES A-100	PARTITION TYPES & DETAILS
AES A-101	COMPOSITE PLAN
AES A-140	[ALT] ROOF COMPOSITE PLAN & DETAILS
AES A-150	DOOR SCHEDULE, DOOR & FRAME TYPES, DETAILS, SECTIONS & NOTES
AES A-300	SECTIONS - CAFETERIA
AES A-401	ENLARGED CAFETERIA - DEMOLITION PLAN, RENOVATION PLAN & RCP
AES A-402	ENLARGED KITCHEN AREAS 1 & 2 - DEMOLITION PLAN, RENOVATION PLAN & RCP
AES A-403	ENLARGED FENCE - DEMOLITION PLAN, RENOVATION PLAN & RCP
AES A-500	DETAILS - CAFETERIA
AES A-601	INTERIOR SIGNAGE SCHEDULE & DETAILS
AES A-701	INTERIOR ELEVATIONS & FINISH FLOOR PLAN

MECHANICAL

AES MD-100	KITCHEN/CAFÉ DUCTWORK DEMOLITION PLANS
AES MD-101	KITCHEN/CAFÉ PIPING DEMOLITION PLANS
AES MD-200	PARTIAL ROOF DEMOLITION PLANS
AES M-001	MECHANICAL LEGEND
AES M-100	KITCHEN/CAFÉ DUCTWORK RENOVATION PLANS
AES M-101	KITCHEN/CAFÉ PIPING RENOVATION PLANS
AES M-200	PARTIAL ROOF RENOVATION PLANS
AES M-400	HVAC DETAILS
AES M-401	HVAC DETAILS
AES M-402	HVAC DETAILS
AES M-403	HVAC DETAILS
AES M-404	HVAC HAP LOADS
AES M-500	HVAC SCHEDULES

ELECTRICAL

AES E-000	ELECTRICAL COMPOSITE PLAN & LEGEND
AES ED-101	ELECTRICAL DEMOLITION PLAN
AES E-100	ELECTRICAL PLAN - KITCHEN & CAFÉ
AES E-101	ELECTRICAL PLAN - FENCE
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AES E-500	ELECTRICAL ONELINE & PANEL SCHEDULE
AES E-501	ELECTRICAL FIRE ALARM RISER DIAGRAM

"To the best of my professional ability, knowledge, information and belief, the design of this project conforms to all applicable provisions of the New York State Uniform Fire Prevention and Building Code, the New York State Energy Conservation Construction Code, and the building standards of the New York State Education Department."

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REVISION NO:

BID Documents
April 10, 2026

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PROJECT TITLE:

Owego Apalachin School District Phase 4
5 Sheldon Guile Boulevard - Owego, NY 13827

SEALS:

DRAWING TITLE:

COVER SHEET
& SHEET INDEX

DRAWN BY:	CHECKED BY:
A.G. / T.M.	C.Z. / R.S.
DATE:	PROJECT NO:
04/10/2026	2024-240P

DRAWING NO:

G-000

CAD FILE: 4240-OFA-G-000.DWG PLOT DATE: 4/10/2026

GENERAL NOTES

ALL NOTES BELOW ARE THE RESPONSIBILITY OF ALL CONTRACTS

1. ANY ITEM SHOWN ON THE DRAWINGS AND NOT INCLUDED IN THE SPECIFICATIONS, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. SUBMIT SPECIFICATIONS TO THE ARCHITECT FOR APPROVAL.
2. CONTRACTOR IS TO PROVIDE ALL ITEMS GRAPHICALLY REPRESENTED IN THE DRAWINGS WHETHER IT IS DETAILED, DESIGNATED OR NOT INCLUDING BUT NOT LIMITED TO DOORS, GATES, STEPS, STAIRS, WALKS, CIVIL, ARCHITECTURAL, HVAC, ELECTRICAL, PLUMBING AND FIRE PROTECTION ELEMENTS ETC. REQUEST SPECIFICATION INFORMATION FROM THE ARCHITECT/ENGINEER.
3. THE CONTRACTOR SHALL INVESTIGATE JOB SITE TO COMPARE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. INCLUDE COST FOR ALL WORK DESCRIBED IN CONTRACT DOCUMENTS AND REQUIRED OR IMPLIED BY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND NEW WORK, OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
4. CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE CONTRACT, LOCAL CONDITIONS RELATING TO LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES, AND RESTRICTIONS RELATED TO THE EXECUTION OF WORK. NOTIFY ARCHITECT OF ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
5. IF THERE IS A CONFLICT IN THE DOCUMENTS, THE BETTER QUALITY AND OR GREATER QUANTITY WILL BE PROVIDED BY THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST INTERPRETATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROVIDING ANY ITEM IN QUESTION. IF THE CONFLICT IS NOT REPORTED TO THE ARCHITECT/ENGINEER, AND THE CONTRACTOR PROVIDES THE ITEM IN QUESTION, THE CONTRACTOR SHALL BE REQUIRED TO REPLACE THE ITEM AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL ISSUE COMPLETE SETS OF THE CONTRACT DOCUMENTS TO EACH OF THE SUBCONTRACTORS FOR COORDINATION OF THEIR WORK AND DESCRIPTION OF SCOPE OF THE WORK. COORDINATE ALL DEMOLITION AND CONSTRUCTION WITH OTHER TRADES.
7. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND APPROVALS BY LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT. PROVIDE COPIES OF ALL TRANSACTIONS TO OWNER. NOTIFY ARCHITECT OF ANY VARIANCE WITH CODES IN FORCE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.
8. THE CONTRACTOR SHALL PROVIDE, AND PAY FOR ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT, WAREHOUSING, TRANSPORTATION AND DELIVERY COSTS, HOISTING, REMOVAL OF TRASH AND DEBRIS, AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE EXECUTION AND COMPLETION OF THE WORK.
9. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS.
10. THE ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS OR DELAYS BY THE CONTRACTOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH A CONTRACTOR.
12. OTHER CONTRACTORS AND THEIR SUBCONTRACTORS MAY BE WORKING ON THE PREMISES SIMULTANEOUS WITH THE DURATION OF THIS CONTRACT. NO ACTION SHALL BE TAKEN ON THE PART OF THIS CONTRACTOR OR ANY SUBCONTRACTOR TO IMPEDE THE ACCESS OR OPERATION OF ANY OTHER CONTRACTOR ON THE PREMISES, UNION OR NON-UNION.
13. SCHEDULE WORK TO BE COMPLETED PER THE SPECIFICATIONS.
14. THE CONTRACTOR SHALL COMPLY AND COORDINATE ALL WORK WITH BUILDING OWNER REGARDING HEAT, WATER, ELECTRICITY, DELIVERIES, ACCESS, ELEVATOR AVAILABILITY, NOISE CONTROL, TRASH AND DEBRIS REMOVAL, HOISTING, AND ANY OTHER UTILITIES OR OWNER'S RULES AND REGULATIONS CONCERNING THE PROJECT SITE.
15. THE CONTRACTOR SHALL PROCURE MATERIALS SO AS NOT TO DELAY SUBSTANTIAL COMPLETION. NOTIFY ARCHITECT WITHIN 5 DAYS OF EXECUTION OF CONTRACT OF ANY MATERIAL DELIVERY WHICH COULD DELAY COMPLETION OF CONTRACT.
16. THE CONTRACTOR SHALL COORDINATE SCHEDULING, PROVISIONS FOR INSTALLATION, LOCATIONS AND THE ACTUAL INSTALLATION OF ITEMS FURNISHED BY OWNER OR BY OTHERS.
17. COORDINATE WORK WITH ALL TRADES ON THE PROJECT NOT UNDER CONTRACT TO THE CONTRACTOR. ANY CHANGES OR DELAYS ARISING FROM CONFLICTS BETWEEN SUCH TRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
18. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD. CONTRACT DRAWINGS ARE NOT INTENDED TO REPRESENT EXACT DIMENSIONS. VERIFICATION OF DIMENSIONS IS THE RESPONSIBILITY OF THE CONTRACTOR FOR ALL PHASES OF THE PROJECT INCLUDING BIDDING, FABRICATION, COORDINATION AND CONSTRUCTION. DIMENSIONS OF EXISTING ELEMENTS ARE FOR GENERAL INFORMATION ONLY AND MUST BE VERIFIED IN THE FIELD.
22. CHANGES IN DRAWINGS OR ACTUAL WORK SHALL BE ISSUED BY THE ARCHITECT.
23. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
24. PERFORM ALL WORK AND INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AND IN A MANNER CONSISTENT WITH INDUSTRY STANDARD OF WORKMANSHIP.
25. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL NECESSARY COVERINGS, PROTECTIVE ENCLOSURES, TEMPORARY DOORS AND PARTITIONS AND DUST BARRIERS TO PROTECT ALL EXISTING WORK AND FINISHES TO REMAIN. LOCATION OF SUCH PROTECTION SHALL BE VERIFIED WITH OWNER PRIOR TO COMMENCING WORK AND IN COORDINATION WITH PROGRESSION OF WORK SCHEDULE. PERFORM WORK IN A MANNER THAT WILL AVOID HAZARDS TO PERSONS IN ADJACENT AREAS AND THAT WON'T INTERFERE WITH WORK OR PASSAGE TO ANY OF THESE AREAS. REPAIR AND REPLACE ANY DAMAGED MATERIAL CAUSED BY IMPROPER PROTECTIONS AT NO ADDITIONAL CHARGE TO OWNER. A WEATHER TIGHT SYSTEM ENCLOSURE AND TEMPORARY HEAT WHEN REQUIRED TO COMPLETE THE WORK IS REQUIRED FOR THE COMPLETE BUILDING THROUGHOUT THE ENTIRE PROJECT.
26. CONTRACTOR TO REMOVE ANY STRAY PAINT, DIRT, OR STAINS INCURRED DURING THE CONSTRUCTION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY EQUIPMENT COVERINGS USED DURING CONSTRUCTION AND HE SHALL ALSO BE RESPONSIBLE FOR REMOVING HIS TRASH OFF OF THE JOB SITE DAILY.
27. WORK DAMAGED DURING CONSTRUCTION OR NOT CONFORMING TO SPECIFIED STANDARDS, TOLERANCES OR MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE WORK INCLUDES ALL BUILDING AND SITE ELEMENTS.
28. THE CONTRACTOR SHALL MAINTAIN ALL EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES AND LIFE SAFETY SYSTEMS IN WORKING ORDER AS REQUIRED BY CODE.
29. EXIT DOORS, EGRESS DOORS, AND OTHER DOORS REQUIRED FOR MEANS OF EGRESS DURING CONSTRUCTION SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
30. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND WELDING IN COMPLIANCE WITH THE PUBLISHED STANDARDS OF NFPA. THE CONTRACTOR SHALL PROVIDE FIRE WATCHES FOR ALL CUTTING, GRINDING, AND WELDING OPERATIONS. THE TRAINING OF THESE FIRE WATCHES AND THE USE OF THE CONTRACTOR'S SUPPLIED FIRE EXTINGUISHERS IS THE RESPONSIBILITY OF THE CONTRACTOR.
31. ANY AREA OUTSIDE THE LIMITS OF CONSTRUCTION DISTURBED BY OPERATIONS OF THE CONTRACTOR SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
32. THE USE OF RECYCLED FILL MATERIALS IS PROHIBITED UNDER ANY STRUCTURE. ALL FILL UNDER STRUCTURES IS TO BE ITEM 4 IN NEW YORK AND PENNDOT 2A SELECT STRUCTURAL FILL IN PENNSYLVANIA. NO SUBSTITUTIONS WILL BE ACCEPTED.
33. CONTRACTOR SHALL PROVIDE MEANS OF CONVEYING ALL MATERIALS TO AND FROM ROOF.
34. CONTRACTOR SHALL BE MADE AWARE THAT ANY EXISTING EQUIPMENT "TO REMAIN" MUST BE PROTECTED DURING THE DEMOLITION AND CONSTRUCTION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO EQUIPMENT AND PROVIDE TEMPORARY COVERING FOR ALL EXISTING EQUIPMENT TO REMAIN.
35. REPAIR AND/OR REPLACE EXISTING ITEMS NOT SCHEDULED OR NOTED TO BE DEMOLISHED, AND NOT SPECIFIED TO BE REMOVED, BUT WHICH BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE ANY AND ALL SUCH REPAIRS, REPLACEMENTS AND MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION AT THE TIME OF DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.
36. 24 HOURS PRIOR TO OCCUPANCY OF ANY PHASE, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL SURFACES OF DUST, DEBRIS, LOOSE CONSTRUCTION MATERIAL AND EQUIPMENT. VACUUM OR MOP ALL FLOORS AND CLEAN WINDOWS.
37. THE CONTRACTOR SHALL PROVIDE A WARRANTY TO THE OWNER THAT ALL MATERIALS, AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, UNLESS OTHERWISE SPECIFIED, AND THAT ALL WORK SHALL BE OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND SHALL CONFORM TO THE CONTRACT DOCUMENTS.
38. FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL PROMPTLY CORRECT WORK FOUND NOT TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BEAR ALL COST OF CORRECTIONS.
39. THE CONTRACTOR. SHALL SUBMIT FOR ARCHITECT'S REVIEW ALL BUILDING STANDARD SAMPLES AND PRODUCT LITERATURE. CONTRACTOR TO ALSO SUBMIT SAMPLES AND PRODUCT LITERATURE AND OTHER PERTINENT DATA FOR ARCHITECT'S CONSIDERATION OF ANY PROPOSED SUBSTITUTIONS.
40. THE CONTRACTOR. SHALL SUBMIT FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION OR PURCHASE, SHOP DRAWINGS OR SAMPLES FOR ALL MILLWORK, CUSTOM METALWORK, CUSTOM CASEWORK, AND ALL OTHER ITEMS AS REQUESTED BY THE ARCHITECT FOR ALL ABOVE BUILDING STANDARD ITEMS.
41. PERFORM ALL INTERIOR AND EXTERIOR WORK INSTALLING MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AND IN A MANNER CONSISTENT WITH INDUSTRY STANDARD OF WORKMANSHIP. FOLLOW ALL SAFETY PROCEDURES TO PROTECT WORKERS, GENERAL PUBLIC, AND BUILDING OCCUPANTS.
42. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS OF CONSTRUCTION DURING OCCUPANCY.
43. REVIEW ALL PRODUCT M.S.D.S (MATERIAL SAFETY DATA SHEET) INFORMATION ON ALL MATERIALS AND FOLLOW ALL SAFETY AND APPLICATION PROCEDURES.
44. THE FOLLOWING LIST IS A SAMPLE OF ITEMS THAT REQUIRE SPECIAL PRECAUTIONS: PAINTS, STAINS, SOLVENTS, VAPORS, EPOXY, CORROSIVES, CONTAMINANTS, VAPOR EMISSION COMPLIANCE TREATMENTS, ADHESIVES, GLUES, CLEANING SOLUTIONS, PROPANE, FUELS, WELDING, CHEMICALS, ETC...
45. ANY FABRICATION AND/OR INSTALLATION WHICH HAS NOT BEEN PROPERLY COORDINATED WITH APPROVED EQUIPMENT MANUFACTURE AND MUST BE REPAIRED, RELOCATED, ALTERED, REPLACED, RE-INSTALLED OR MODIFIED IN ANY MANNER WILL BE DONE TO THE SATISFACTION OF THE OWNER WITH NO ADDITIONAL COST TO THE OWNER OR DESIGN PROFESSIONAL

CONCRETE WORK

46. ALL CONCRETE WALKS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION ARE TO BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
47. ALL CONCRETE SLABS, NEW OR EXISTING, ARE REQUIRED TO SLOPE TO FLOOR DRAINS UNLESS SPECIFICALLY DESIGNATED OTHERWISE.

NOTE: ALL TRADES ARE RESPONSIBLE FOR CLEAN UP AT THE END OF EACH DAY AND REQUIRED TO HAVE AT LEAST ONE ON SITE LABORER CLEANING THROUGHOUT THE DAY.

MASONRY WORK

48. MASONRY CONTRACTOR TO INSTALL BRICK WALLS AS PER DRAWINGS AND SPECIFICATIONS. ALL INSTALLATION METHODS, DETAILS, RECOMMENDATIONS, LATEST TECHNICAL DEVELOPMENTS, ETC. SHALL BE AS PER THE BRICK INSTITUTE OF AMERICA, 11490 COMMERCE PARK DRIVE RESTON VIRGINIA 22091. 703-620-0010.
49. PROPER BRICK BACK UP SYSTEM, ANCHORS, ETC. MUST BE IN PLACE PRIOR TO INSTALLING ANY BRICK. CONTRACTOR MUST NOT INSTALL ANY BRICK IF BACK UP SYSTEM IS NOT PROPERLY CONSTRUCTED. NOTIFY CONSTRUCTION MANAGER AND ARCHITECT IMMEDIATELY.
50. ALL CONCRETE MASONRY WALLS (C.M.U) TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL CONCRETE MASONRY ASSOCIATION. 2302 HORSE PEN ROAD, HERNDON, VIRGINIA 22071-3406
51. REFER TO WALL SECTIONS FOR WEEP VENTS, WEEP HOLES, FLASHINGS, ANCHORS, ETC.
52. IF TEMPERATURES ARE BELOW FREEZING, CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER ENCAPSULATION TO KEEP TEMPERATURE ABOVE FREEZING.

STEEL AND METAL WORK

52. ANY STEEL THAT IS GRAPHICALLY REPRESENTED ON THE ARCHITECTURAL DRAWINGS MUST BE PROVIDED. REQUEST SIZE INFORMATION FROM THE ARCHITECT/ENGINEER. ANY STEEL NOT SHOWN ON THE STRUCTURAL DRAWINGS IS TO BE FURNISHED BY THE GENERAL TRADES CONTRACTOR.
53. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVISION AND INSTALLATION OF ALL SUPPLEMENTAL MISCELLANEOUS IRON AND/OR STRUCTURAL STEEL (16 GA.) STUDDING REQUIRED TO ADEQUATELY SUPPORT ALL GYPSUM WALLBOARD DROPS SOFFITS, CORNICES, ETC. FROM THE STRUCTURAL STEEL ABOVE.
54. GENERAL CONTRACTOR SHALL CLOSELY COORDINATE THE INSTALLATION OF THE REQUIRED SUPPLEMENTAL MISC. IRON AND/OR STRUCTURAL STEEL STUDDING SO AS CONDUIT, SPRINKLER SYSTEM AND/OR ACOUSTICAL SUSPENDED CEILING SYSTEM ETC... CAN BE INSTALLED PROPERLY.
55. CONTRACTOR TO SUBMIT DETAILED SHOP DRAWING OF SUPPLEMENTAL MISC. IRON AND/OR STRUCT. STL. STUDDING TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF SAME.
56. STRUCTURAL STEEL FABRICATOR AND INSTALLER SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL FRAMED OPENINGS IN ROOF WITH APPROVED EQUIPMENT MANUFACTURES. OPENINGS SUCH AS, BUT NOT LIMITED TO MECHANICAL UNITS, EXHAUST FANS, CURB MOUNTED EQUIPMENT, ROOF DRAINS, SKYLIGHTS, STAIR OPENINGS, ROOF HATCHES, SMOKE HATCHES, DUCT THROUGH ROOF PENETRATIONS, EXPANSION JOINTS, ETC. EXACT SIZES AND EXACT LOCATIONS OF ALL OPENINGS ARE TO BE VERIFIED WITH THE APPROVED SHOP DRAWINGS ISSUED FOR THE INSTALLATION . THE EXACT SIZES SHALL BE COORDINATED PRIOR TO ANY FABRICATION AND INSTALLATION BY ANY/ALL TRADES. SIZES AND LOCATIONS OF OPENINGS INDICATED ON THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND FOR GENERAL INFORMATION ONLY. ANY FABRICATION AND/OR INSTALLATION WHICH HAS NOT BEEN PROPERLY COORDINATED WITH APPROVED EQUIPMENT MANUFACTURE MUST BE REPAIRED, RELOCATED, ALTERED, REPLACED, REINSTALLED OR MODIFIED TO THE SATISFACTION OF THE OWNER WITH NO ADDITIONAL COST TO THE OWNER OR THE DESIGN PROFESSIONAL.
57. ALL EXTERIOR STRUCTURAL STEEL MEMBERS TO RECEIVE HIGH PERFORMANCE COATING UNLESS OTHERWISE NOTED. ANY INTERIOR STRUCTURAL STEEL THAT IS NOTED TO BE FIREPROOFED IS TO HAVE NO PRIMER COAT, UNLESS OTHERWISE NOTED.
58. WHERE TWO DISSIMILAR METALS MEET, PAINT FACE OF ONE WITH BITUMINOUS PAINT.
59. ANY ADDITIONAL STEEL THAT IS REQUIRED DUE TO SUBSTITUTION OF EQUIPMENT OR SYSTEMS IS TO BE PROVIDED BY THE CONTRACTOR MAKING THE SUBSTITUTION AT NO ADDITIONAL COST TO THE OWNER.

THERMAL, MOISTURE AND SOUND ISOLATION PROTECTION, FIRE PROOFING

60. CONTRACTOR IS TO PROVIDE TEMPORARY WATERTIGHT WEATHERPROOF CLOSURES AT ALL ROOF OPENINGS UNTIL AFTER INSTALLATION OF MECHANICAL UNITS, DRAINS, VENTS, ETC. ROOF IS THEN TO BE RESEALED WEATHER-TIGHT.
61. ALL PENETRATIONS THROUGH RATED WALLS ARE TO BE SEALED TO MAINTAIN INTEGRITY OF WALL CONSTRUCTION AND RATING.
62. ALL INSULATION EXPOSED TO CEILING PLENUM IS TO BE FIRE AND DUST PROOF.
63. INSULATION WILL NOT BE LEFT EXPOSED IN ANY FINISHED SPACE. AT A MINIMUM, THE INSULATION WILL BE COVERED WITH GYPSUM BOARD, TAPED, SPACKLED, SANDED AND PAINTED.
64. CONTRACTOR IS TO REPLACE ANY SPRAY-ON FIREPROOFING DAMAGED DURING CONSTRUCTION SO AS TO MAINTAIN INTEGRITY OF INSTALLATION
65. WHEREVER A FOAM BACKER ROD AND SEALANT ARE USED, THE SEALANT AND BACKER ROD MUST BE COMPATIBLE WITH EACH OTHER. USE A SIZE BACKER ROD THAT COMPRESSES 25% WHEN INSERTED INTO THE JOINT. (TYPICAL ALL JOINTS)
66. ALL EXTERIOR WINDOWS, DOORS, LOUVERS, VENTS, EXHAUST FANS, PIPE PENETRATIONS, AND ALL OTHER PENETRATIONS THRU EXTERIOR WALLS SHALL BE SEALED ALL AROUND WITH SEALANT. (BOTH ON EXTERIOR AND INTERIOR SIDES)
67. ALL ROOF WORK SHALL BE DONE IN ACCORDANCE WITH EXIST. ROOF MANUFACTURES RECOMMENDATIONS SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES. CONSULT WITH EXISTING ROOF MANUFACTURER PRIOR TO DOING ANY WORK. PROVIDE ALL NECESSARY ROOF PROTECTION TO MAINTAIN ROOF PERFORMANCE AND WARRANTY.
68. ALL OPENINGS / PENETRATIONS IN WALLS, FLOORS AND CEILINGS SHALL BE SEALED WITH NELSON FIRE-STOP PRODUCTS (1-800-331-7325) OR APPROVED EQUAL. PRODUCT USE SHALL BE AS RECOMMENDED BY NELSON AND MUST MAINTAIN RATING OF ALL WALLS, FLOORS ENCOUNTERED. ALL PENETRATIONS REQUIRE SEALANT, SUCH AS BUT NOT LIMITED TO THE FOLLOWING: STRUCTURAL STEEL, PIPING, CONDUITS, DUCTWORK, WIRING ETC. CONTRACTOR MUST PROVIDE DETAILED SHOP DWGS. OF ALL PENETRATIONS FOR ARCHITECTS REVIEW, NO EXCEPTIONS. MARK AND IDENTIFY FIRE / SMOKE RATED PARTITIONS IN CONCEALED SPACES PER IBC. 703.7
69. FOR INSTALLATION OF INSULATION & VAPOR / AIR BARRIERS, INCLUDING ALL TYPES OF INSULATION: BATTS, SPRAY INSULATION, ACOUSTICAL, ETC. (REFER TO DRAWINGS AND SPECIFICATIONS FOR TYPES) CONTRACTOR MUST INSTALL INSULATIONS & VAPOR / AIR BARRIERS AS PER MANUFACTURER'S INSTRUCTIONS, SPECIFICATIONS, METHODS, RECOMMENDATIONS, STANDARDS, PROCEDURES, ETC. FOR EACH TYPE OF INSULATION & VAPOR / AIR BARRIER. SEALING OF ALL GAPS TO PROVIDE A CONTINUOUS ENVELOPE, ATTACHMENT, JOINT SEALING, CONDENSATION CONTROL, THERMAL PERFORMANCE, ACOUSTICAL PERFORMANCE, FIRE PERFORMANCE RATINGS, AESTHETICS, ASTM STANDARDS COMPLIANCE, INTERNATIONAL BUILDING CODE, LOCAL CODES, UNDERWRITERS LABORATORIES, FACTORY MUTUAL, EPA, ETC. MUST ALL BE FOLLOWED.
70. REFER TO MECHANICAL (HVAC), PLUMBING AND ELECTRICAL DRAWINGS FOR DETAILS OF UTILITY WALL PENETRATIONS.

ACOUSTICAL PERFORMANCE

71. ALL NEW STC RATED PARTITIONS SHALL HAVE SOUND ATTENUATION INSULATION BLANKETS FROM CONCRETE SLAB TO UNDERSIDE OF DECK ABOVE. THICKNESS OF INSULATION IS TO MATCH THICKNESS OF STUD FRAME TO FILL VOIDS COMPLETELY. SEE PARTITION LEGEND FOR ADDITIONAL INFORMATION.
72. ALL PERIMETER EDGES OF STC RATED PARTITIONS SHALL BE CAULKED WITH AN ACOUSTICAL SEALER, CONTINUOUS.
73. AT ALL PENETRATIONS (DUCTS, PIPES, CONDUITS, ETC.) THRU ANY STC RATED PARTITIONS, PROVIDE 1" SPACE AROUND PERIMETER. VOID SHALL BE PACKED WITH SOUND ATTENUATION BLANKETS AND CAULKED WITH ACOUSTICAL SEALANT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
74. WRAP BACKSIDE OF BOXES WITH MOLDABLE ACOUSTIC DEADENING SOUND MAT AND PACK AROUND ALL ELECTRICAL OUTLETS AND SWITCH BOXES WITH SOUND ATTENUATION INSULATION (THICKNESS TO MATCH VOID) AND CAULK WITH ACOUSTICAL SEALANT. ELECTRICAL CONTRACTOR SHALL NOT INSTALL ANY OUTLETS BACK TO BACK. INSTALL ONLY ONE BOX PER STUD CAVITY.
75. ALL WALL PANELS TO BE RECESSED IN A SOUND ATTENUATION LINED BOX. CONDUITS INTO BOX TO BE ACOUSTICALLY PACKED AND CAULKED WITH ACOUSTICAL SEALANT.
76. INSULATE AROUND ALL CONDUITS, PIPES, ETC. - RUN IN STUD PARTITIONS WITH 3½" SOUND ATTENUATION INSULATION.

OPENINGS, PENETRATIONS, WOODS, PLASTICS, STEEL FRAMING, STEEL STUDS AND BRACING

77. ALL EXTERIOR WINDOWS, DOORS, LOUVERS, VENTS, EXHAUST FANS, DUCTWORK, CONDUIT AND PIPE PENETRATIONS, AND ALL OTHER PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED COMPLETELY AROUND WITH SEALANT. (BOTH ON EXTERIOR AND INTERIOR SIDES)
78. ALL WOOD TO BE FIRE RETARDANT TYPICAL UNLESS OTHERWISE NOTED.
79. ALL WOOD ON EXTERIOR WALLS AND ROOF TO BE MOISTURE RESISTANT UNLESS OTHERWISE NOTED.
80. CONTRACTOR IS TO PROVIDE ALL MISC. FRAMING, BLOCKING, ETC. TO HANG SCREENS, BULLETIN BOARDS, RAILS, TOILET ACCESSORIES, WOODWORK, ETC.
81. ALL INTERIOR PARTITIONS WHICH RECEIVE CERAMIC TILE SHALL BE 20 GAGE MIN. AT 12" O.C. WITH HORIZONTAL COLD ROLLED STIFFENER CHANNELS AT 4'-0" O.C. (MAX.) AND EXTEND FROM FINISHED FLOOR TO STRUCTURE ABOVE. 20 GAGE DIAGONAL STUD KICKERS MUST ALSO BE INSTALLED AT EVERY OTHER VERTICAL STUD ABOVE CEILING.
82. PROVIDE STEEL AND OR STEEL FRAMING FOR ALL ROOF MOUNTED EQUIPMENT INCLUDING BUT NOT LIMITED TO HVAC, ELECTRICAL AND PLUMBING EQUIPMENT.
83. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLATION OF ALL SUPPLEMENTAL MISCELLANEOUS IRON AND/OR STRUCTURAL STEEL (16 GA.) STUDDING REQUIRED TO ADEQUATELY SUPPORT ALL GYPSUM WALLBOARD DROPS SOFFITS, CORNICES, ETC. FROM THE STRUCTURAL STEEL ABOVE.
84. CONTRACTOR IS TO COORDINATE WITH ALL TRADES FOR CEILING PENETRATIONS AND PROVIDE BRACING FOR EXTRA SUPPORT AS NECESSARY FOR PROPER INSTALLATION.
85. ALL PENETRATIONS THROUGH DRYWALL AND MASONRY SURFACES INCLUDING BUT NOT LIMITED TO PIPE, CONDUIT, DUCTWORK, GRILLES, REGISTERS, DEVICE BOXES, HANGER RODS, ETC. SHALL HAVE THEIR COMMON JOINTS WITH DRYWALL AND/OR MASONRY CAULKED TO PROVIDE AN AIR-TIGHT SEAL.
86. PROVIDE OPENINGS AS REQUIRED FOR MECH. AND ELECT. EQUIPMENT. DRYWALL CONTRACTOR TO PROVIDE STUD BRACING AS REQUIRED TO STABILIZE WALLS ABOVE CEILINGS AT HIGH AND LOW PARTITIONS.
87. PIPE SLEEVES ARE TO BE CONDUIT (LENGTH TO MATCH THE THICKNESS OF THE WALL), WITH INSULATED BUSHINGS AND ARE TO BE SEALED AFTER CONDUIT INSTALLATION TO MAINTAIN RATING. SLEEVES ARE TO BE PLACED IN FIRST BLOCK COURSE.
88. CONTRACTOR SHALL FRAME AND FINISH ALL MECHANICAL AND ELECTRICAL WALL AND ROOF PENETRATIONS.
89. CONTRACTOR IS TO PROVIDE STUD BRACING FOR METAL STUD PARTITIONS TALLER THAN 10'-0" AFF. SPACING OF BRACING TO BE AS DETAILED OR AS REQUIRED.
90. 2 X 6 CONTINUOUS WOOD BLOCKING AND/OR MISCELLANEOUS FRAMING SHALL BE PROVIDED AT DRYWALL PARTITIONS FOR ALL WALL MOUNTED ELEMENTS INCLUDING BUT NOT LIMITED TO CABINET WORK AT TOP AND BOTTOM OF WALL MOUNTED UNITS AND UNDER COUNTER TOP LEVEL OF BASE CABINET, SHELVING, WALL MOUNTED FF&E ITEMS AND EQUIPMENT, PROJECTION SCREENS, MONITORS, BULLETIN BOARDS, WHITE BOARDS, SMART BOARDS, RAILS, TOILET ACCESSORIES, MILLWORK AND WOODWORK, ETC.
91. CONTRACTOR SHALL CLOSELY COORDINATE THE INSTALLATION OF THE REQUIRED SUPPLEMENTAL MISCELLANEOUS IRON AND/OR STRUCTURAL STEEL STUDDING WITH CONDUIT, SPRINKLER SYSTEM AND/OR ACOUSTICAL SUSPENDED CEILING SYSTEM.
92. EXACT SIZES AND EXACT LOCATIONS OF ALL OPENINGS ARE TO BE VERIFIED WITH THE APPROVED SHOP DRAWINGS ISSUED FOR THE INSTALLATION . THE EXACT SIZES SHALL BE COORDINATED PRIOR TO ANY FABRICATION AND INSTALLATION BY ANY/ALL TRADES. (SIZES AND LOCATIONS INDICATED ON CONTRACT DRAWINGS ARE DIAGRAMMATIC AND FOR INFORMATION ONLY.)

DOORS, WINDOWS AND HARDWARE

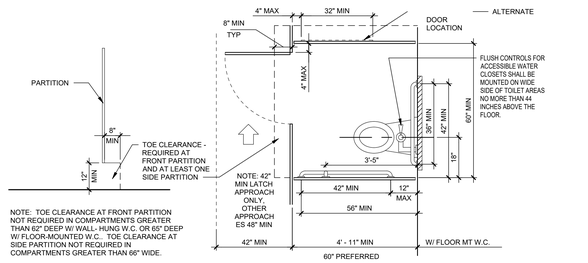
93. VERIFY ALL KEYING REQUIREMENTS OF ALL LOCKS WITH OWNER.
94. PROVIDE ELECTRICAL WORK FOR ALL HARDWARE REQUIRING ELECTRICAL, SHOWN ON THE DRAWINGS OR NOT SHOWN ON THE DRAWINGS. COORDINATION OF ALL ELECTRONIC HARDWARE IS REQUIRED. PROVIDE ALL HARDWARE REQUIRED IF NOTED ON ELECTRICAL, ARCHITECTURAL, SPECIAL SYSTEMS OR IT DRAWINGS.
95. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL WEEP JOINTS AROUND WINDOWS AND EXTRUDED ALUMINUM STORE FRONTS FREE OF CAULK.
96. ALL EXTERIOR DOOR FRAMES SHALL RECEIVE FOAM INSULATION INSERTS TYP. AT HEAD AND JAMB. ALL EXTERIOR ENTRANCE DOORS AND FRAMES TO RECEIVE PERIMETER WEATHER STRIPPING OR AS PER SPECIFICATIONS.
97. CONTRACTOR SHALL FRAME AND FINISH WHERE NECESSARY ALL MECHANICAL AND ELECTRICAL WALL PENETRATIONS.
98. TEMPERED GLASS IS TO BE INSTALLED IN ALL DOORS AND WINDOWS AS REQUIRED BY THE APPLICABLE BUILDING CODE.
99. ALL EXTERIOR DOORS AND FRAMES ARE INSULATED.

FINISHES

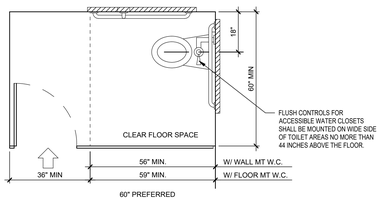
100. ALL NEW & EXISTING CONCRETE FLOOR SLABS ON GRADE THAT ARE SCHEDULED TO RECEIVE FLOOR FINISHES ARE TO RECEIVE VAPOR EMISSIONS COMPLIANCE TREATMENT. FLOOR FINISH CONTRACTORS ARE RESPONSIBLE FOR TESTING MOISTURE CONTENT IN FLOOR SLABS BEFORE APPLYING VAPOR EMISSIONS COMPLIANCE TREATMENT AND BEFORE APPLYING FLOOR FINISHES, TWO (2) TESTS MINIMUM ARE REQUIRED PER AREA.
101. ALL FLOOR SLABS ON GRADE ARE TO RECEIVE KOSTER VAP 1 2000 SYSTEM VAPOR EMISSIONS COMPLIANCE TREATMENT AS MANUFACTURED BY KOSTER AMERICAN CORPORATION, PH.# (757) 425-1206/ (541) 548-0210.
102. THE CONTRACTOR SHALL EXAMINE ALL SURFACES TO DETERMINE THAT THEY ARE SOUND, DRY, CLEAN AND READY TO RECEIVE FINISHES PRIOR TO INSTALLATION. START OF INSTALLATION OF FINISHES SHALL IMPLY ACCEPTANCE BY THE CONTRACTOR PROVIDING FINISHES OF SUBSTRATE AND SHALL NOT BE GROUNDS FOR CLAIMS AGAINST IMPROPER PERFORMANCE OF INSTALLED MATERIALS. ADVISE THE ARCHITECT/ENGINEER OF ANY EXISTING CONSTRUCTION NOT LEVEL, SMOOTH OR PLUMB WITHIN INDUSTR

1 TYPICAL ACCESSIBLE TOILET ROOMS

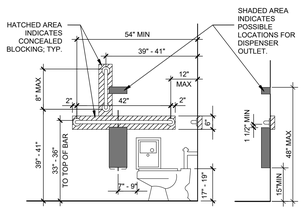
SCALE: 1/2"=1'-0"



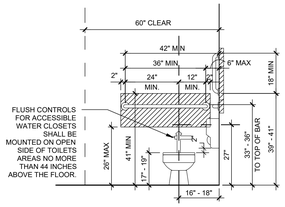
OUTSWING MINIMUM CLEARANCES



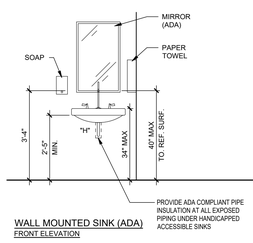
INSWING MINIMUM CLEARANCES



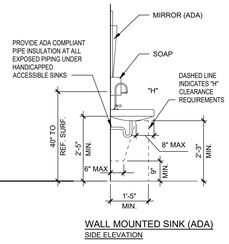
TOILET SIDE ELEVATION



TOILET FRONT ELEVATION



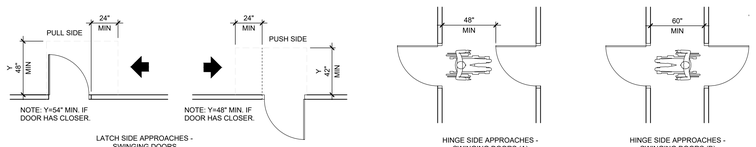
WALL MOUNTED SINK (ADA)
FRONT ELEVATION



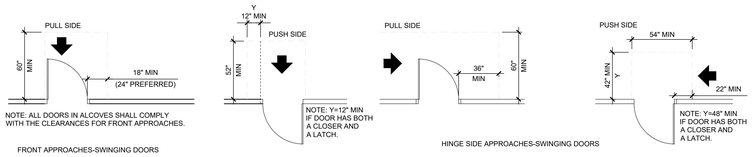
WALL MOUNTED SINK (ADA)
SIDE ELEVATION

2 TYPICAL MANEUVERING CLEARANCES & ACCESSIBLE ROUTES (ANSI 2017 A117.1)

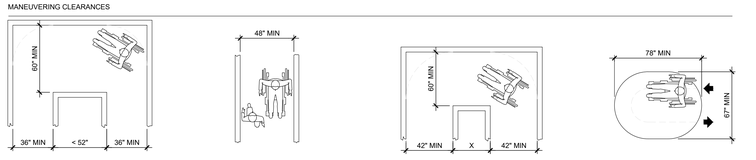
SCALE: 1/4"=1'-0"



MANEUVERING CLEARANCES



MANEUVERING CLEARANCES



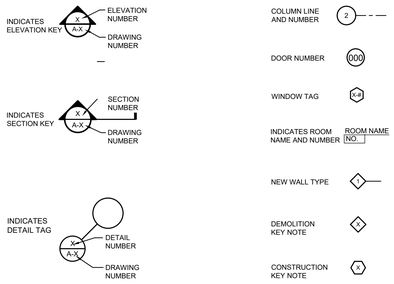
WIDTH OF ACCESSIBLE ROUTE FOR 90° TURN ACCESSIBLE ROUTES

MINIMUM PASSAGE WIDTH FOR ONE WHEELCHAIR AND ONE AMBULATORY PERSON

WIDTH OF ACCESSIBLE ROUTE FOR TURNS AROUND AN OBSTRUCTION

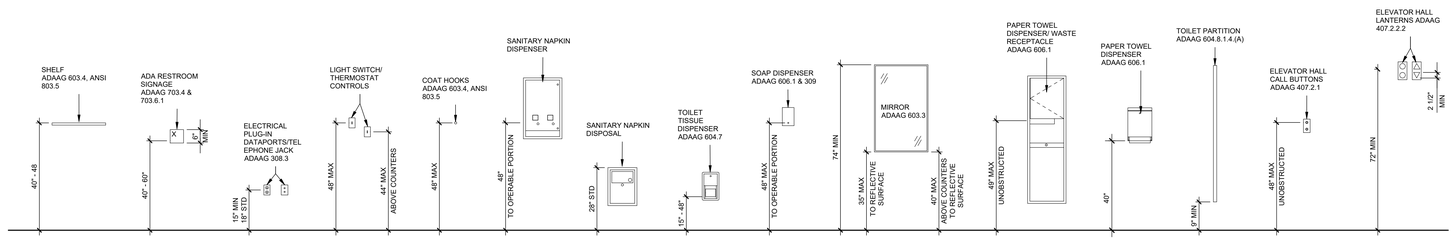
SPACE NEEDED FOR SMOOTH U-TURN IN A WHEELCHAIR

4 ARCHITECTURAL SYMBOL LEGEND



5 TYPICAL ACCESSORY MOUNTING HEIGHTS

SCALE: 1/2"=1'-0"



3 ARCHITECTURAL ABBREVIATIONS

A.C.T.	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ATTCHMT	ATTACHMENT
BD	BOARD
BLDG.	BUILDING
BLK	BLOCK(ING)
BM	BEAM
BRG	BEARING
BRK	BRICK
BS	BOTTOM OF SLAB
BTM	BOTTOM
C.J.	CONTROL OR CONSTRUCTION JOINT
CLO.	CLOSET
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CORR	CORRIDOR
COV	COVER
CPT	CARPET
CT/CER	CERAMIC TILE/CERAMIC
D OR DRN	DRAIN
DBL	DOUBLE
DET	DETAIL
D.F.	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DIV.	STRIP DIVIDER STRIP
DN	DOWN
D.O.	DITTO
DP	DAMPPROOF(ING)
DR	DOOR
D.S.	DOWN SPOUT
DT	DRAIN TILE
D.W.	DISH WASHER
DWG	DRAWING
EA	EACH
E.J.	EXPANSION JOINT
EIFS	EXTERIOR INSUL. FINISH SYSTEM
ELEC	ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EX /EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FRESH AIR
F.C.U.	FAN COIL UNIT
F.D.	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
F.F. /FIN. FL.	FINISH FLOOR
FIN	FINISH
FL.	FLOOR
FLSH	FLASHING
FLUOR	FLUORESCENT
F.O.S.	FACE OF STUDS
FR(G)	FRAME(ING)
FT	FEET OR FOOT
FUR	FURRING
FVC	FIRE VALVE CABINET
GA	GAGE OR GAUGE
GALV	GALVANIZE
G.C.	GENERAL CONTRACTOR
G.I.	GALVANIZED IRON
GL	GLASS
GM	GALVANIZED METAL
GR	GRADE
GWB	GYPSUM WALL BOARD
GYP.BD/GWB	GYPSUM BOARD
H.B.	HOSE BIB
H.C.	HOLLOW CORE
H/C	HANDICAP
HDW	HARDWARE
HDWD	HARDWOOD
H.M.	HOLLOW METAL
HOR	HORIZONTAL
HT	HEIGHT
HTR	HEATER
I.D.	INSIDE DIAMETER
INFO	INFORMATION
INSUL	INSULATION OR INSULATED
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JT	JOINT
KO	KNOCKOUT
LAM	LAMINATE
LAV	LAVATORY
LP	LOW POINT
LT	LIGHT
MFGR, MANUF	MANUFACTURER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MC	MEDICINE CABINET
MECH	MECHANICAL
MEMB	MEMBRANE
MET, MTL	METAL
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
M.O.	MASONRY OPENING
MOVE	MOVABLE
M.T.	MARBLE THRESHOLD
N	NORTH
NIC	NOT IN CONTRACT
NOM	NOMINAL
NO.	NUMBERS
NTS	NOT TO SCALE
O.C.	ON CENTER
OFF	OFFICE
O.H.	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
O.S.B.	ORIENTED STRAND BOARD
OVHD	OVERHEAD
P.LAM.	PLASTIC LAMINATE
PTN.	PARTITION
PC	PRECAST
P.C.PL	PORTLAND CEMENT PLASTER
P.H.	PAPER HOLDER
PL	PROPERTY LINE
PLAS	PLASTER
PLUM	PLUMBING
PLYW'D.	PLYWOOD
PNL	PANEL
POL	POLISHED
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTD	PAINTED
PTS	POINTS
Q.T.	QUARRY TILE
R	RADIUS
R. VENT	RANGE VENT
REF	REFRIGERATOR
REINF	REINFORCE
REQ'D.	REQUIRE(D)
RET	RETURN
REV	REVISE,REVISION
RM	ROOM
RO	ROUGH OPENING
RSTRM	RESTROOM
SAN	SANITARY
SAN. ST.	SANITARY STACK
SC	SOUND CONTROL
SCR	SCREEN
SECT	SECTION
SCHED	SCHEDULE, SCHEDULED
SCU	SELF-CONTAINED UNIT
SF	SQUARE FOOT (FEET)
SHT	SHEET
SIM	SIMILAR
SP	STANDPIPE
SPLSH. BLK.	SPLASH BLOCK
SPEC	SPACIFICATION
SPR	SPRINKLER
SQ	SQUARE
S.S.	STAINLESS STEEL
STN	STAIN(ED)
STL	STEEL
STG/STOR	STORAGE
STRUCT	STRUCTURAL, STRUCTURE
SUSP	SUSPEND, SUSPENDED
T	TILE
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
TEMP	TEMPERED
TH	THRESHOLD
THK	THICK, THICKNESS
THRU	THROUGH
T.O.C.	TOP OF CURB
T.O.S.	TOP OF SLAB
TRTD	TREATED
TYP	TYPICAL
U.L.	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
V	VENT
VCT	VINYL COMPOSITION TILE
VENT	VENTILATE
VERT	VERTICAL
VEST	VESTIBULE
V.I.F.	VERIFY IN FIELD
V.W.C.	VINYL WALL COVERING
VOL	VOLUME
W	WIDTH
W/	WITH
W/H	WIDTH x HEIGHT
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WK	WORK
WP	WATERPROOF
WT	WEIGHT
&	AND
@	AT
'	FEET
"	INCHES
#	POUNDS

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REVISION NO:

BID Documents
April 10, 2026

OFA SED #60-06-01-06-0-009-034
AES SED #60-06-01-06-0-008-018

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PROJECT TITLE:

Owego Apalachin School District Phase 4

5 Sheldon Guile Boulevard - Owego, NY 13827

SEALS:

DRAWING TITLE:

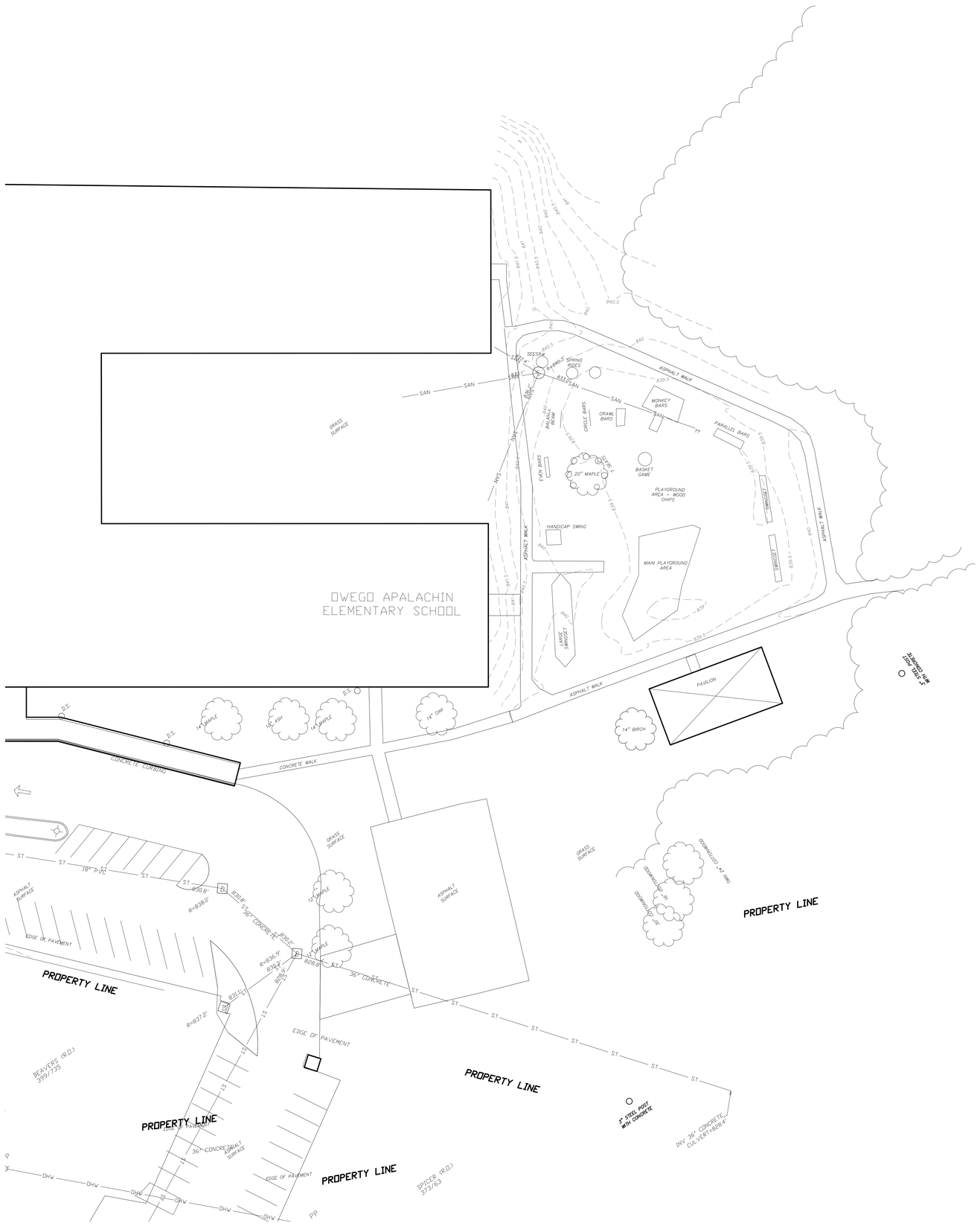
ADA STANDDARDS & ABBREVIATIONS

DRAWN BY:	CHECKED BY:
A.G. / T.M.	R.S.
DATE:	PROJECT NO:
04/10/2026	2024-240P

DRAWING NO:

G-002

CAD FILE: 4240-OFA-G-002.DWG PLOT DATE: 4/10/2026



OWEGO-APALACHIN CSD - SITE SURVEY

0 10 20 40 60
SCALE IN FEET

SURVEY NOTES - AES

BOUNDARY AND TOPOGRAPHIC INFORMATION WAS TAKEN FROM THE FOLLOWING:

TITLE "AES PLAYGROUND, APALACHIN ELEMENTARY OACSD PHASE 4, 405 PENNSLYVANIA AVE, APALACHIN, NY 13732" PREPARED BY TAMCO MANAGEMENT GROUP, 1 KATTELVILLE RD SUITE 9, BINGHAMTON, NY 13901, DATED 10/30/25.

MAP NOTES:

1) ALL COORDINATES ARE BASED ON NYSPCS CENTRAL ZONE AND NAVD88 GEOID 18.

2) UNDERGROUND UTILITIES ARE BASED ON SURFACE EVIDENCE AND INVERTS OF SANITARY. CONTRACTOR TO VERIFY UTILITY LOCATIONS IN FIELD.

3) ELEVATIONS ARE DEPICTED AT A 1/2 FT CONTOUR INTERVAL.

BENCHMARKS:

BM-1 : ARROWHEAD ON HYDRANT.
ELEV. = 844.43'

SURVEY VERIFICATION/COORDINATION - AES

CONTRACTOR IS RESPONSIBLE FOR VERIFICATION / COORDINATION OF ALL INFORMATION (BENCHMARKS, ELEVATIONS, UTILITIES, ELEMENTS, TREES, ETC.) SHOWN ON THIS SURVEY AND CALIBRATING THIS INFORMATION WITH ACTUAL "IN THE FIELD" DATA. THIS SURVEY IS PROVIDED FOR THE BENEFIT OF THE CONTRACTOR AND GENERAL DESIGN INTENT IS SHOWN. NO ADDITIONAL COSTS WILL BE ALLOWED SHOULD INFORMATION SHOWN ON THE SURVEY AND FIELD DATA VARY.

LEGEND - AES

EXISTING	PROPOSED	DESCRIPTION
	CLL	CONTRACT LIMIT LINE
		STREET LINE / PROPERTY EDGE
-100-	800	CONTOUR
		CONCRETE CURB
		PAVEMENT EDGE
		SAWCUT LINE
OHW		OVERHEAD WIRES
W		WATER LINE - SIZE / DUCTILE IRON
G		GAS LINE
T		BURIED TELEPHONE LINE
FO		BURIED FIBER OPTIC LINE
D		BURIED DATA LINE
E		BURIED ELECTRIC LINE
Sa		SANITARY SEWER - SIZE / PVC
St		STORM SEWER - SIZE / HDPE
		STORMWATER MANAGEMENT TRENCH
	8" SMT FDRAIN	12" FLAT DRAIN
		UTILITY POLE
		GUY WIRE
UP		STADIUM LIGHT POLE (SHOWN FOR COORDINATION ONLY)
CIPF		CAPPED IRON ROD FOUND
IRF		IRON ROD FOUND
IPF		IRON PIPE FOUND
YCIRS		YELLOW CAPPED IRON ROD SET
TBOX		TELEPHONE PULL BOX
TRANS		ELECTRIC TRANSFORMER
EMTR		ELECTRIC METER
EHH		ELECTRIC HANDHOLE
SMON		CONCRETE MONUMENT FOUND
TPED		TELEPHONE PEDESTAL
PIV		POST INDICATOR VALVE
ERiser		ELECTRIC RISER
BOL		REMOVABLE METAL BOLLARD
		TRAFFIC SIGN

EXISTING	PROPOSED	DESCRIPTION
		FIRE HYDRANT
		THRUST BLOCK
		WATER VALVE
WMH		WATER MANHOLE
		AREA DRAIN
CBRO CB		CATCH BASIN / STORM INLET
DMH	MH / DW	STORM MANHOLE / DRYWELL
SMH		SANITARY MANHOLE
CO		CLEANOUT
GV		GAS VALVE
CHAIN LINK FENCE		VINYL CLAD CHAIN LINK FENCE
x257.25	456.50	SPOT GRADE
	F.V.	FIELD VERIFY
	INV.	INVERT
	TF	TOP OF FOOTING
	FG	FINISHED GRADE
	SG	SUBGRADE
		EDGE OF WOODS
		TREES / SHRUBS
		DRAINAGE FLOW DIRECTION
		DETAIL FLAG
		CONSTRUCTION NOTE
		REMOVE EXISTING PAVEMENT
		1½" ASPHALT MILLING, REPAIR AND TACK COAT
		1½" MIN. ASPHALT WEARING COURSE
		LAUN TYPE 2 - 4" TOPSOIL AND SOD
		STONE DRAINAGE BLANKET
		SYNTHETIC TURF W/ PADDING

SITE PREPARATION and CONSTRUCTION NOTES - AES

1. EXISTING LAUN AREA REMAINS. PROTECT.
2. STRIP EXISTING TOPSOIL AND STOCK PILE FOR REUSE ONSITE IN AN AREA AS SHOWN ON PLANS OR AS DIRECTED BY THE OWNER. TEMPORARILY SEED ENTIRE PILE IMMEDIATELY AND SURROUND WITH SILT FENCE.
3. EXISTING VEGETATION REMAINS. PROTECT AT ALL TIMES AS SHOWN ON THE PLANS AND AS SPECIFIED. DO NOT PARK VEHICLES/EQUIPMENT OR STORE MATERIALS WITHIN DRIP LINES OF TREES.
4. MILL EXISTING ASPHALT MATERIAL TO 1-1½" DEPTH MINIMUM, REMOVE AND HAUL OFFSITE. REPLACE ANY PAVEMENT DAMAGED DURING CONSTRUCTION WITH SAME MATERIAL AS ADJACENT, AND AS DIRECTED BY THE ARCHITECT. REPAIR ANY CRACKED OR DISPLACE PAVEMENT BENEATH MILLINGS TO PROVIDE A STABLE BASE SATISFACTORY TO THE ARCHITECT AS DETAILED AND SPECIFIED. SWEEP, POWERWASH AND CLEAN ENTIRE MILLED SURFACE. INSTALL NYSDOT APPROVED TACK COAT TO MILLED SURFACE AND PAVE AS DETAILED AND SPECIFIED.
5. EXISTING PAVEMENT REMAINS. PROTECT. REPLACE ANY PAVEMENT DAMAGED DURING CONSTRUCTION
6. REMOVE EXISTING PAVEMENT SURFACE AND HAUL OFF SITE. REMOVE GRANULAR BASE COURSE AND HAUL OFF SITE OR USE AS GENERAL EARTH FILL WHEN MEETING SPECIFIED SIEVE REQUIREMENTS.
7. EXISTING SITE UTILITY REMAINS. PROTECT.
8. INSTALL FLAT DRAINS AND SMTS TO AVOID PLAYSCAPE FOOTINGS, TYP.
9. EXISTING SITE FEATURE REMAINS. PROTECT.
10. REMOVE EXISTING SITE FEATURE AND DISPOSE OFF SITE, INCLUDING ANY ASSOCIATED FOOTINGS OR UNDERDRAINS. BACKFILL VOID WITH IMPORTED GRANULAR BACKFILL COMPACTED TO 95% OF IN PLACE DRY DENSITY.
11. PROVIDE ADDITIONAL SATISFACTORY EARTH FILL ADD 4" TOPSOIL AND SODDED LAUN IN AREAS OF REMOVED EQUIPMENT AND WOOD CHIP SURFACING, TYP.
12. SAW CUT NEAT, STRAIGHT EDGE, PRIOR TO PAVING, AT SIDEWALKS REMOVE AT NEAREST SCORE JOINT.
13. CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION, INVERT, SIZE, AND TYPE OF EXISTING PIPE/UTILITY PRIOR TO ORDERING MATERIALS AND CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY IMMEDIATELY.
14. ADJUST UTILITY TO FINISHED GRADE. FURNISH ALL LABOR AND MATERIAL TO ACCOMPLISH.
15. MEET EXISTING LINE AND GRADE.
16. ALIGN NEW EDGE WITH EXISTING.
17. CAP END SILT TIGHT.
18. PROVIDE HOT TAR ASPHALT CRACK SEALER BETWEEN EXISTING AND NEW ASPHALT JOINT.

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REVISION NO:

appel osborne landscape architecture
BUFFALO | SYRACUSE | TROY

BID Submission
April 10, 2026

AES SED #60-06-01-06-0-008-018

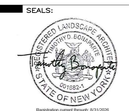
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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:



DRAWING TITLE:

SITE SURVEY

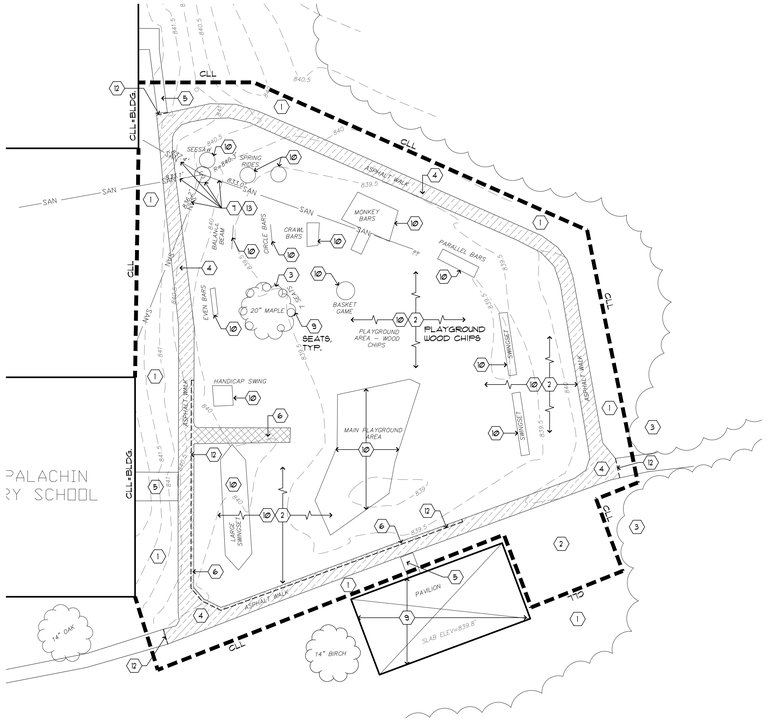
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HB	TB
DATE:	PROJECT NO:
4/10/2026	2024-240P

DRAWING NO:

BUILDING: AES

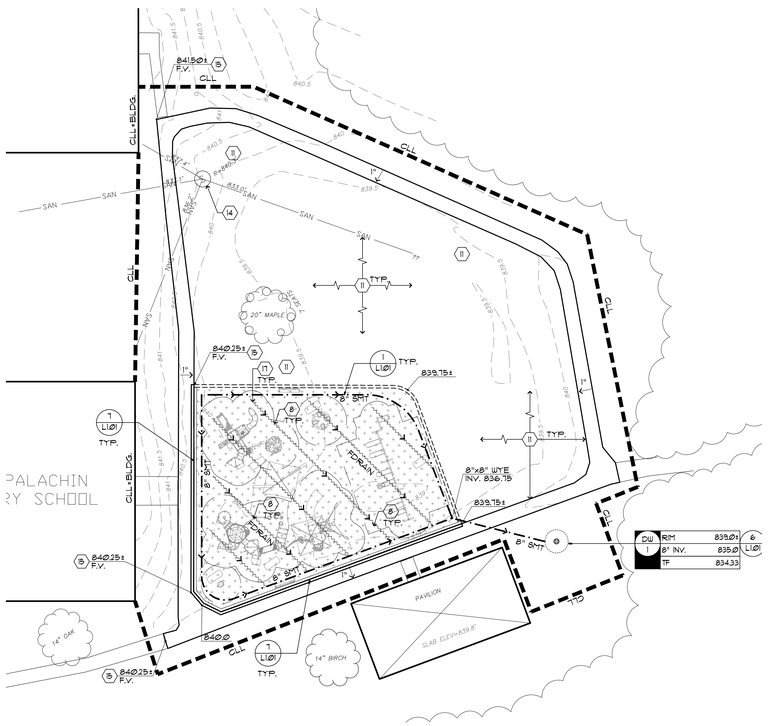
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CAD FILE: PLOT DATE:



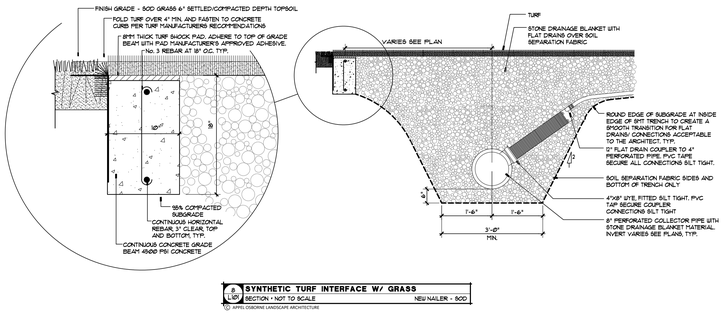
SITE PREPARATION PLAN

0 10 20 40 60
SCALE IN FEET

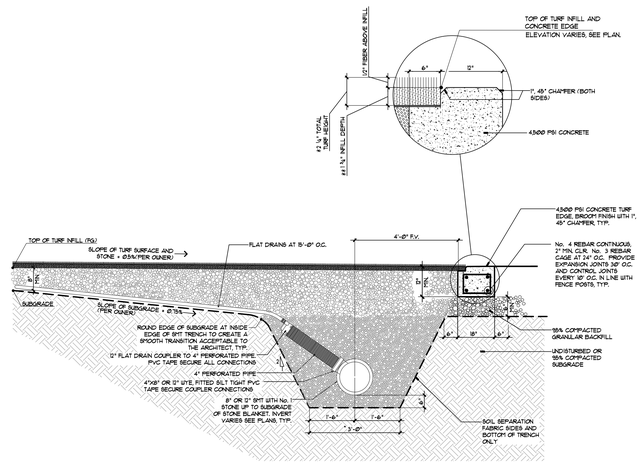


GRADING, DRAINAGE, and UTILITY PLAN

0 10 20 40 60
SCALE IN FEET

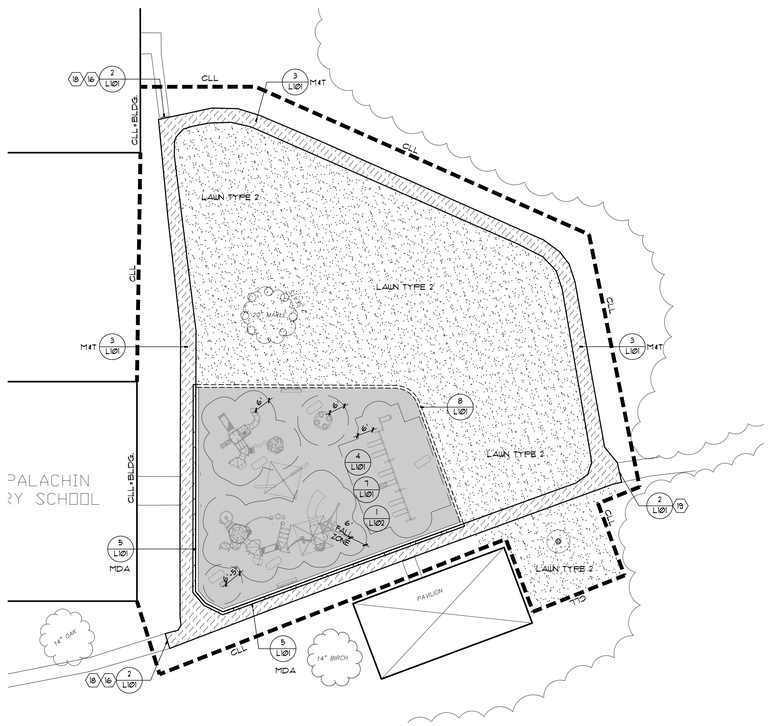


L1Ø SYNTHETIC TURF INTERFACE W/ GRASS
SECTION • NOT TO SCALE — NEW NAILER - SOD
© APPEL OSBORNE LANDSCAPE ARCHITECTURE



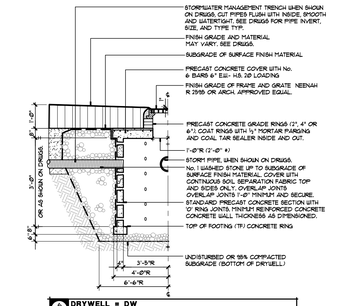
1 DEPTH OF NOTCH VARIES WITH TURF TYPE. MODIFY SUBGRADE AND CONCRETE EDGE AS NECESSARY TO ACCOMMODATE TURF TYPE SELECTED. ADHERE TO CONCRETE PER MANUFACTURER'S RECOMMENDATIONS.
2 FINISH GRADE OF TURF INFILL EQUALS THE FINISH GRADE OF THE GRADE BEAM.
3. ALIGN FRONT OF ALL POSTS AND FOIL POLE SO THAT FENCE FABRIC LAYS FLUSH AND IN LINE.

L1Ø TURF FIELD SUBGRADE CROSS SECTION
SECTION • NOT TO SCALE — M3230-2#14
© APPEL OSBORNE LANDSCAPE ARCHITECTURE

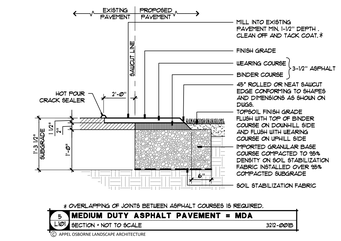


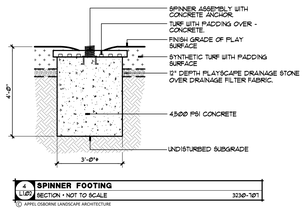
LAYOUT PLAN

0 10 20 40 60
SCALE IN FEET



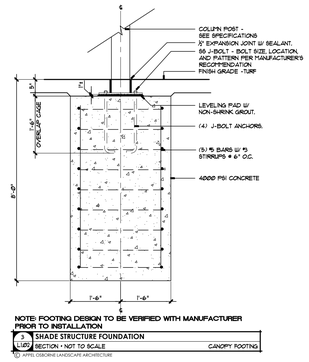
L1Ø DRYWELL = DW
SECTION • NOT TO SCALE — 3340-20A
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EXISTING PAVEMENT
PROPOSED PAVEMENT
MILL INTO EXISTING PAVEMENT MIN. 1½" DEPTH , CLEAN OFF AND TACK COAT. #
FINISH GRADE
WEARING COURSE
BINDER COURSE
3-1/2" ASPHALT
45° ROLLED OR NEAT SAWCUT EDGE CONFORMING TO SHAPES AND DIMENSIONS AS SHOWN ON DRUGS.
TOPSOIL, FINISH GRADE FLUSH WITH TOP OF BINDER COURSE ON DOWNHILL SIDE AND FLUSH WITH BASE NO. 1 COURSE ON UPHILL SIDE
IMPORTED GRANULAR BASE COURSE COMPACTED TO 95% DENSITY. SOIL STABILIZATION FABRIC OR EQUAL OVER 95% COMPACTED SUBGRADE
SOIL STABILIZATION FABRIC
HOT POUR CRACK SEALER
2'-0"
6"
6"
12"
12"
6"
6"
6



4 L1Ø1 **SPINNER FOOTING**
SECTION • NOT TO SCALE 3230-101

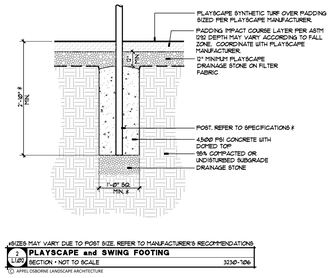
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NOTE: FOOTING DESIGN TO BE VERIFIED WITH MANUFACTURER PRIOR TO INSTALLATION

1 L1Ø1 **SHADE STRUCTURE FOUNDATION**
SECTION • NOT TO SCALE CANOPY FOOTING

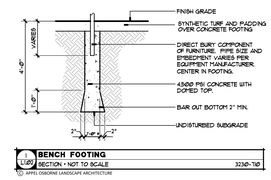
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HEIGHTS MAY VARY DUE TO POST SIZE. REFER TO MANUFACTURER'S RECOMMENDATIONS

2 L1Ø1 **PLAYSCAPE and SWING FOOTING**
SECTION • NOT TO SCALE 3230-106

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4 L1Ø1 **BENCH FOOTING**
SECTION • NOT TO SCALE 3230-110

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1 L1Ø1 **PLAYGROUND EQUIPMENT**
SECTION • NOT TO SCALE PLAYGROUND EQUIPMENT

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:



Registration current through: 9/31/2026

DRAWING TITLE:

PLAYSCAPE ENLARGEMENT OF EQUIPMENT

DRAWN BY:	CHECKED BY:
HB	TB
DATE:	PROJECT NO:
4/10/2026	2024-240P

BUILDING: AES

DRAWING NO: L1.02

CAD FILE: PLOT DATE:

REQUIRED SPECIAL INSPECTIONS

OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO OBSERVE THE CONSTRUCTION OF THE FOLLOWING ITEMS FOR CONFORMANCE TO CONTRACT DOCUMENTS AND CODE REQUIREMENTS:

FOR ADDITIONAL INFORMATION REFER TO:
2020 BUILDING CODE OF NEW YORK STATE
2016 AISC 360 CHAPTER N
2016 TMS 602 SPECIFICATIONS SECTION 1.6, TABLES 3 AND 4 FOR LEVEL 2
2014 ACI 318 SECTION 26.13

ALL COORDINATION AND SCHEDULING OF TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

SPECIAL INSPECTION AGENCY MUST OBTAIN APPROVAL IN WRITING FROM ENGINEER TO ALTER PROCEDURES OR INSPECTIONS OR WAIVE REQUIREMENTS.

CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED MUNICIPAL INSPECTIONS AND ALL SPECIAL INSPECTIONS WITH AUTHORITY HAVING JURISDICTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHARGES DUE TO ANY SPECIAL INSPECTIONS WHICH ARE CANCELED.

INSPECTION AGENCY SHALL REPORT TO THE OWNER, CONSTRUCTION MANAGER, CONTRACTOR AND ENGINEER WITHIN 24 HOURS AFTER COMPLETION OF TESTING THAT TESTING HAS TAKEN PLACE AND NO NEGATIVE RESULTS WERE FOUND. IF NEGATIVE RESULTS ARE FOUND, THEY SHALL BE REPORTED IMMEDIATELY TO ALL PARTIES FOR CORRECTIVE ACTION.

ITEMS FOR OBSERVATION AND TESTING (ALL TEST SPECIMENS SHALL BE PREPARED BY TESTING AGENCY, NOT CONTRACTOR):

S1. PERIODIC VERIFICATION THAT BOLTS, NUTS AND WASHERS BEAR IDENTIFICATION MARKINGS CONFORMING TO ASTM MARKINGS FOR THOSE SPECIFIED IN CONSTRUCTION DOCUMENTS.

S2. PERIODIC INSPECTION OF BOLTED STRUCTURAL STEEL BEARING CONNECTIONS AND MOMENT CONNECTIONS.

S3. PERIODIC INSPECTION OF SHOP AND FIELD SINGLE-PASS FILLET WELDS 5/16" AND SMALLER. PROPER PREHEATING PROCEDURES, WELD FILLER MATERIAL ELECTRODES KEPT IN OVEN AND REMOVAL OF ANY GALVANIZING.

S4. PERIODIC INSPECTION OF FRAMES AROUND ROOF OPENINGS AS INDICATED ON DRAWINGS.

S5. PERIODIC INSPECTION OF JOIST REINFORCEMENT INSTALLATION AS INDICATED ON DRAWINGS AT EACH RTU, LARGE PIPING, ETC.

S6. PERIODIC OBSERVATION OF ROOF DECK TO ENSURE THAT NO INSTALLATIONS (ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, COMMUNICATION, ETC) ARE BEING SUSPENDED FROM ROOF DECK. NOTHING SHALL BE SUSPENDED FROM THE ROOF DECK WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. MISCELLANEOUS STEEL FOR THESE APPLICATIONS SHALL BE PROVIDED BY THE RESPECTIVE INSTALLERS.

S7. PERIODIC INSPECTION OF ROOF DECK ANCHORAGE.

SHOP DRAWINGS

1. STRUCTURAL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW OF ALL STRUCTURAL ITEMS.
2. PARTIAL SUBMISSIONS MUST BE PRE-APPROVED.
3. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS NOT CHECKED BY THE DETAILER AND THE CONTRACTOR SHALL BE REJECTED. MISSING MEMBERS AND DIMENSIONS, AND LACK OF COORDINATION SHALL BE CONSIDERED EVIDENCE OF INCOMPLETENESS.
4. CONTRACTOR SHALL REVIEW DRAWINGS FOR COMPLETENESS AND CONFORMANCE TO THE DESIGN DOCUMENTS PRIOR TO SUBMISSION TO THE ENGINEER.
5. THE STRUCTURAL ENGINEER SHALL HAVE A MINIMUM OF TEN WORKING DAYS TO PROCESS SHOP DRAWINGS.
6. RESUBMITTED SHOP DRAWINGS SHALL HAVE ALL REVISIONS CLOUDED.

NOTE:

DELEGATED DESIGN SUBMITTAL: FOR STRUCTURAL STEEL CONNECTIONS INDICATED TO COMPLY WITH DESIGN LOADS, SUBMITTALS SHALL INCLUDE ANALYSIS DATA, SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

FABRICATOR SHALL BE A QUALIFIED FABRICATOR THAT PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AS AN AISC-CERTIFIED PLANT, CATEGORY BU.

INSTALLER SHALL BE A QUALIFIED INSTALLER WHO PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AS AN AISC-CERTIFIED ERECTOR, CATEGORY CSE.

OWNER SHALL ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM SHOP TESTS AND INSPECTIONS. PROVIDE TESTING AGENCY WITH ACCESS TO PLACES WHERE STRUCTURAL STEEL WORK IS BEING FABRICATED OR PRODUCED TO PERFORM TESTS AND INSPECTIONS.

INSPECT AND TEST SHOP AND FIELD-BOLTED CONNECTIONS ACCORDING TO RCSC'S "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM F3125 Gr A325 OR A490 BOLTS.

VISUALLY INSPECT SHOP AND FIELD-WELDED CONNECTIONS ACCORDING TO AWS D1.1 AND THE FOLLOWING INSPECTION PROCEDURES, AT TESTING AGENCY'S OPTION: LIQUID-PENETRANT INSPECTION (ASTM E165) OR ULTRASONIC INSPECTION (ASTM E164). INSPECT A MINIMUM OF 25% OF MOMENT CONNECTIONS UTILIZING ULTRASONIC TECHNIQUES. IF FAILURE RATE EXCEEDS 25% OF THE INSPECTED JOINTS, THE INSPECTION RATE SHALL INCREASE TO 100%.

OWNER SHALL ENGAGE A QUALIFIED SPECIAL INSPECTOR TO PERFORM THE FOLLOWING SPECIAL INSPECTIONS: VERIFY STRUCTURAL STEEL MATERIALS AND INSPECT STEEL FRAME JOINT DETAILS, VERIFY WELD MATERIALS AND INSPECT WELDS, AND VERIFY CONNECTION MATERIALS AND INSPECT HIGH-STRENGTH BOLTED CONNECTIONS.

OWNER SHALL ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS.

GENERAL NOTES (STRUCTURAL STEEL)

UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING SHALL APPLY:

1. STEEL FRAMING CONNECTIONS SHALL BE MADE USING ASTM F3125 HIGH-STRENGTH BOLTS.
2. WIDE FLANGE SHAPES SHALL BE ASTM A992 UNLESS NOTED. HOLLOW STRUCTURAL SECTIONS AND CHANNELS SHALL BE ASTM A500, GRADE C. ANGLES SHALL BE ASTM A572-50. PLATES SHALL BE ASTM A36.
3. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS USING TYPE E70XX ELECTRODES AND SHALL CONFORM TO THE CODE FOR WELDING IN BUILDING CONSTRUCTION OF THE A.W.S.
4. STRUCTURAL STEEL FABRICATOR AND INSTALLER SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL FRAMED OPENINGS IN ROOF WITH APPROVED EQUIPMENT MANUFACTURER(S). OPENINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO: MECHANICAL UNITS, EXHAUST FANS, CURB MOUNTED EQUIPMENT, DUCT PENETRATIONS, ETC.
5. FABRICATION AND/OR INSTALLATION WHICH HAS NOT BEEN PROPERLY COORDINATED WITH THE APPROVED EQUIPMENT MANUFACTURER(S), AND WHICH MUST BE REPAIRED, RELOCATED, ALTERED, REPLACED, REINSTALLED OR MODIFIED IN ANY MANNER SHALL BE DONE TO THE SATISFACTION OF THE OWNER AND WITH NO ADDITIONAL COST TO THE OWNER OR THE DESIGN PROFESSIONAL.
6. ATTACHMENT OF ANY EQUIPMENT TO THE STRUCTURE IS THE RESPONSIBILITY OF THE EQUIPMENT MANUFACTURER WHO SHALL EMPLOY A STRUCTURAL ENGINEER AS NECESSARY TO DESIGN ATTACHMENT FOR ALL LOADS INCLUDING SEISMIC IN ACCORDANCE WITH CODE AND ASCE 7 AT NO COST TO THE CONTRACT. SUBMIT CALCULATIONS FOR REVIEW IF REQUESTED.
7. AT ROOF DECK PENETRATIONS, STEEL FABRICATOR TO PROVIDE 16 GAUGE GALVANIZED PLATE, 16"x16", FASTENED WITH (8)-#10 SCREWS, FOR ALL OPENINGS THROUGH METAL ROOF DECK UP TO 13"x13" OR 13" DIAMETER.
8. NON-EXPOSED STRUCTURAL STEEL SHALL BE PAINTED; DUNNAGE STEEL SHALL BE GALVANIZED (SEE SPECIFICATIONS)
9. NO LIGHT GAUGE FRAMING, MECHANICAL OR ELECTRICAL EQUIPMENT, OR OTHER EQUIPMENT OF ANY TYPE SHALL BE SUSPENDED FROM OR ATTACHED TO ANY ROOF DECK.
10. MINIMUM BEARINGS ON WALLS OR BEAMS SHALL BE 4" FOR SLABS, 8" FOR BEAMS (U.O.N.).
11. THE GENERAL CONTRACTOR SHALL VERIFY THE EQUIPMENT WEIGHTS, LOCATIONS AND ROOF OPENING SIZES WITH THE MECHANICAL CONTRACTOR AND ANY OF HIS SUBCONTRACTORS' APPROVED SHOP DRAWINGS, AND WITH THE ACTUAL EQUIPMENT PURCHASED. EQUIPMENT CANNOT BE ROTATED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED, IN WRITING, OF ANY DEVIATIONS FROM THE CONTRACT DRAWINGS, INCLUDING ANY CHANGES TO THE INDICATED WEIGHTS OF THE EQUIPMENT.
12. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ANY OPENINGS IN ROOF, FLOORS, AND WALLS NOT INDICATED ON STRUCTURAL DRAWINGS.
13. OPENINGS SHALL NOT BE CUT IN ROOF DECK UNTIL IMMEDIATELY PRIOR TO SETTING EQUIPMENT AS PER OSHA 1926.754(e).
14. EXACT SIZES AND LOCATIONS OF ALL OPENINGS ARE TO BE VERIFIED WITH THE APPROVED SHOP DRAWINGS ISSUED FOR THE INSTALLATION. THE EXACT SIZES SHALL BE COORDINATED PRIOR TO ANY FABRICATION AND INSTALLATION BY ANY AND ALL TRADES. SIZES AND LOCATIONS SHOWN ARE DIAGRAMMATIC AND FOR INFORMATION ONLY.
15. THIS STRUCTURE HAS BEEN DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. CONTRACTOR IS RESPONSIBLE TO DESIGN AND PROVIDE ALL NECESSARY BRACING, TEMPORARY SUPPORTS AND SHORING AS NEEDED TO RESIST FORCES - INCLUDING UPLIFT - DURING THE CONSTRUCTION OF THIS PROJECT.
16. ANY AND ALL COSTS FOR MODIFICATION TO SUPPORT STRUCTURE REQUIRED BY CHANGES TO THE MECHANICAL UNIT AFTER APPROVAL OF SHOP DRAWINGS SHALL BE BORNE BY THE MECHANICAL CONTRACTOR
17. ALL CONNECTIONS SHOWN ARE DIAGRAMMATIC AND SHALL BE DESIGNED BY THE FABRICATOR'S CONNECTION DESIGN ENGINEER REGISTERED IN THE STATE OF THE PROJECT. ANALYSIS AND DESIGN CALCULATIONS SHALL BE SIGNED AND SEALED BY CONNECTION ENGINEER AND SUBMITTED FOR REVIEW

STRUCTURAL ABBREVIATIONS

℄	CENTERLINE
ø	DIAMETER
ADD'L	ADDITIONAL
ADJ	ADJACENT
AHJ	AUTHORITY HAVING JURISDICTION
BOTT	BOTTOM
B/S	BOTH SIDES
CL, C/L	CENTERLINE
C/C	CENTER TO CENTER
COL	COLUMN
CONT	CONTINUOUS
CONX	CONNECTION
D	DEEP
EF	EACH FACE
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EW	EACH WAY
EX	EXISTING
FLG	FLANGE
FTG	FOOTING
FS	FAR SIDE
GA	GAUGE
H	HIGH
HEF	HORIZONTAL EACH FACE
HIF	HORIZONTAL INSIDE FACE
HOF	HORIZONTAL OUTSIDE FACE
IF	INSIDE FACE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MC	MOMENT CONNECTION
MO	MASONRY OPENING
NS	NEAR SIDE
oc	ON CENTER
OF	OUTSIDE FACE
PAF	POWDER ACTUATED FASTENER
PROV'D	PROVIDE
REQ'D	REQUIRED
SCH'D	SCHEDULE
SUP'T	SUPPORTED
TF	TOP OF FOOTING
TOS	TOP OF STEEL
TP	TOP OF PIER
UON	UNLESS OTHERWISE NOTED
VIF	VERTICAL INSIDE FACE
VOF	VERTICAL OUTSIDE FACE
VWM	VERIFY WITH MANUFACTURER
W	WIDE
WP	WORK POINT
WWF	WELDED WIRE FABRIC

DESIGN INFORMATION

THIS PROJECT HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

2020 BUILDING CODE OF NEW YORK STATE
2016 ASCE 7 - MIN DESIGN LOADS FOR BUILDINGS AND STRUCTURES
2014 ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
2013 TMS 402, 602 BUILDING CODES AND SPECIFICATIONS FOR MASONRY STRUCTURES

RISK CATEGORY: III

IMPORTANCE FACTORS:
SNOW I_s = 1.10
WIND I_w = 1.00
SEISMIC I_e = 1.25

LIVE LOADS

ROOF: ORDINARY 20 PSF

SNOW LOADS

GROUND SNOW LOAD	P_g = 40 PSF
SNOW EXPOSURE FACTOR	C_e = 1.0
THERMAL FACTOR	C_t = 1.0
FLAT ROOF SNOW LOAD	P_f = 31 PSF

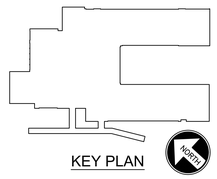
WIND LOAD

BASIC WIND SPEED (V_{ult})	118 MPH
EXPOSURE CATEGORY	C

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New York • Pennsylvania

REVISION NO:

BID Documents
April 10, 2026



KEY PLAN

AES SED #60-06-01-06-0-008-018

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

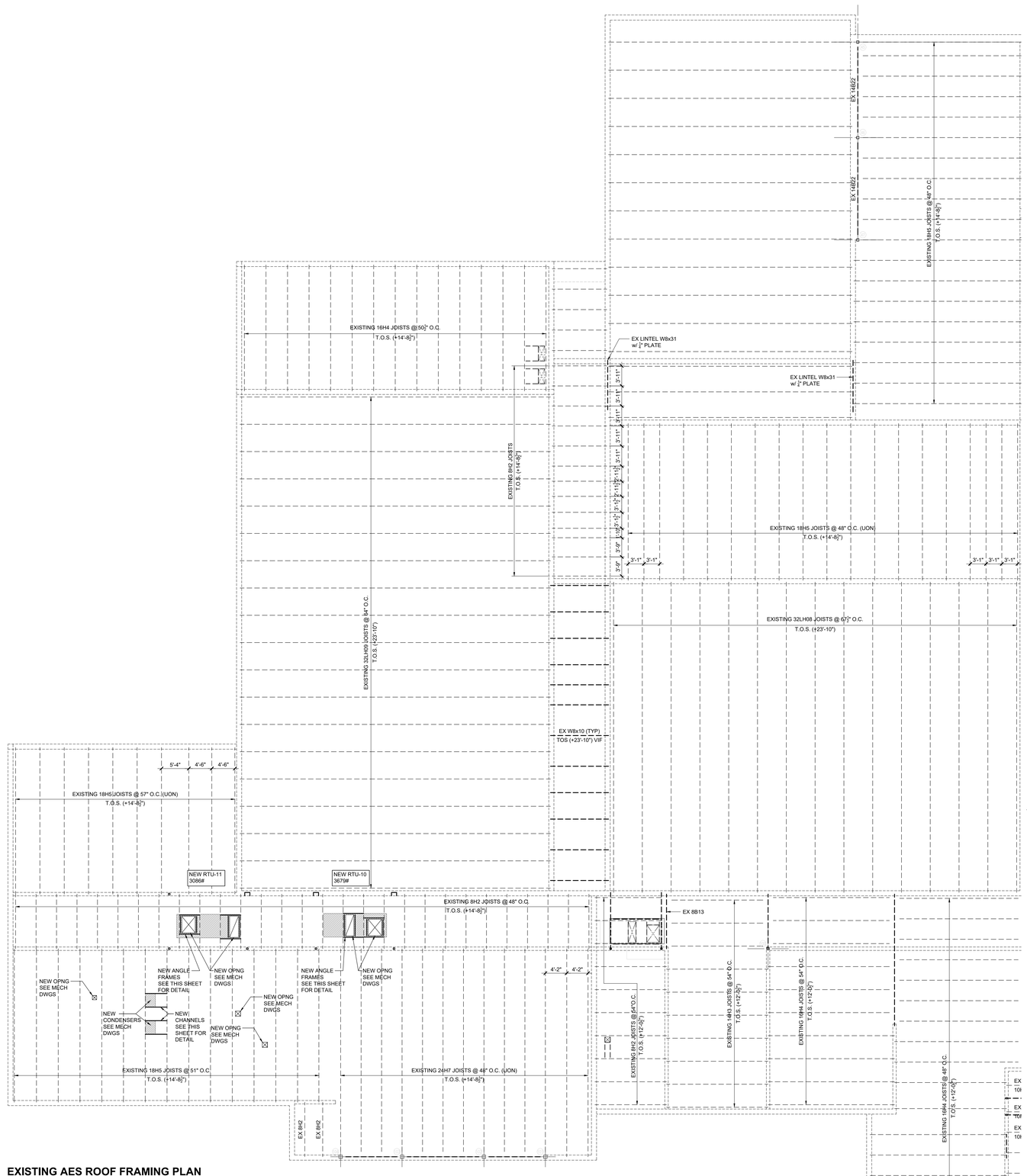
DRAWING TITLE:
GENERAL NOTES AND DESIGN DATA

DRAWN BY:	CHECKED BY:
N.A.C.	E.D.M.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING: AES

DRAWING NO: S-001

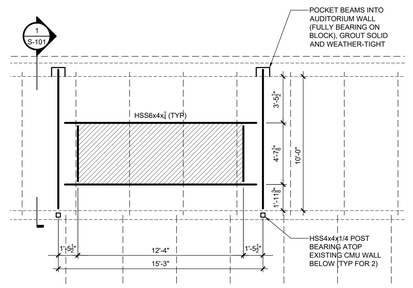
CAD FILE: 4240-AES-S001.DWG PLOT DATE: 4/10/2026



EXISTING AES ROOF FRAMING PLAN

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

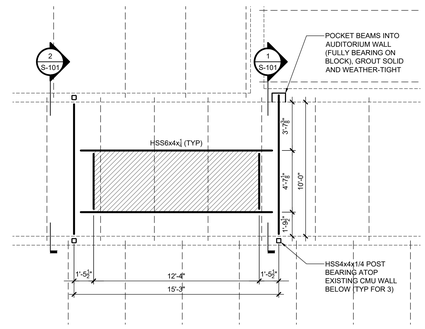
- HIGH POINT OF STEEL ELEVATION VARIES - SEE PLAN.
- SEE THIS DRAWING FOR DROP IN FRAMES TYPICAL DETAIL



NEW RTU-10 FRAMING PLAN DETAIL

SCALE: 1/4"=1'-0"

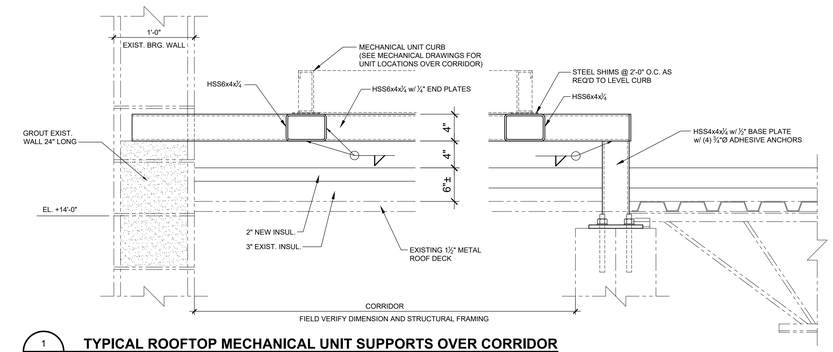
- OPERATING WEIGHT:
  RTU-10 = 3679#
- ALL NEW STEEL TO BE GALVANIZED. SEE SPECIFICATIONS
- UNITS SHALL BE ATTACHED TO NEW DUNNAGE AS PER THE MANUF.
- STEEL FABRICATOR TO COORDINATE LOCATION AND SIZE OF MECHANICAL UNIT WITH THE MECHANICAL CONTRACTOR, C.M., AND GENERAL CONTRACTOR



NEW RTU-11 FRAMING PLAN DETAIL

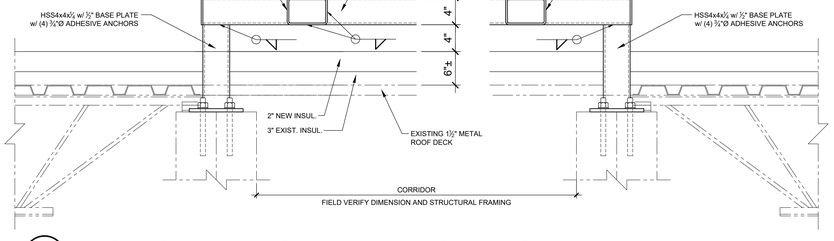
SCALE: 1/4"=1'-0"

- OPERATING WEIGHT:
  RTU-11 = 3086#
- ALL NEW STEEL TO BE GALVANIZED. SEE SPECIFICATIONS
- UNITS SHALL BE ATTACHED TO NEW DUNNAGE AS PER THE MANUF.
- STEEL FABRICATOR TO COORDINATE LOCATION AND SIZE OF MECHANICAL UNIT WITH THE MECHANICAL CONTRACTOR, C.M., AND GENERAL CONTRACTOR



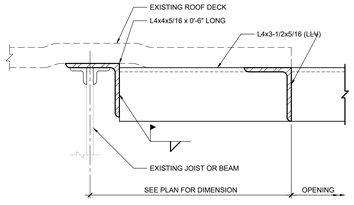
1 S-101 **TYPICAL ROOFTOP MECHANICAL UNIT SUPPORTS OVER CORRIDOR**

SCALE: NOT TO SCALE



2 S-101 **TYPICAL ROOFTOP MECHANICAL UNIT SUPPORTS OVER CORRIDOR**

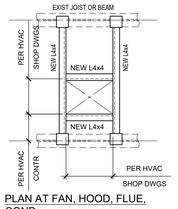
SCALE: NOT TO SCALE



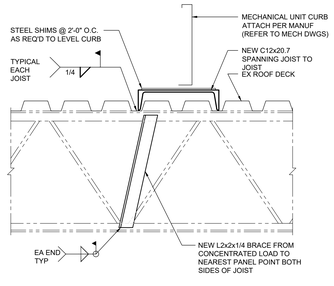
TYPICAL DROP-IN FRAME DETAIL REQUIRED FOR ALL NEW ROOF OPENINGS

NOT TO SCALE (4)

- ALL NEW STEEL ANGLES AND SUPPORTS TO BE PRIME PAINTED
- DROP-IN FRAMES ARE REQUIRED FOR ALL OPENINGS LARGER THAN 13"x13" AND FOR SUPPORT OF CONDENSERS



PLAN AT FAN, HOOD, FLUE, COND



TYPICAL ROOFTOP MECHANICAL UNIT SUPPORT

NOT TO SCALE (8)

NOTE:

EXISTING DIMENSIONS AND MEMBER SIZES SHOWN ARE FOR REFERENCE ONLY AND ARE BASED ON 1964 DRAWINGS PREPARED BY FUDGE & UNDERHILL ARCHITECTS - ENGINEERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND SIZES IN THE AREA OF THE WORK.

STRUCTURAL STEEL FABRICATOR AND INSTALLER SHALL BE RESPONSIBLE FOR THE COORDINATION WITH APPROVED EQUIPMENT MANUFACTURERS OF ALL FRAMED OPENINGS IN FLOORS AND ROOF. OPENINGS INCLUDE, BUT ARE NOT LIMITED TO, MECHANICAL UNITS, EXHAUST FANS, CURB-MOUNTED EQUIPMENT, ROOF DRAINS, SKYLIGHTS, STAIR OPENINGS, ROOF HATCHES, SMOKE HATCHES, DUCT PENETRATIONS, EXPANSION JOINTS, ETC.

EXACT SIZES AND LOCATIONS OF ALL OPENINGS ARE TO BE COORDINATED WITH THE APPROVED SHOP DRAWINGS ISSUED FOR THE INSTALLATION. THE EXACT SIZES SHALL BE COORDINATED PRIOR TO ANY FABRICATION AND INSTALLATION BY ANY AND ALL TRADES. SIZES AND LOCATIONS SHOWN ON CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE FOR INFORMATION ONLY.

ANY FABRICATION AND/OR INSTALLATION WHICH HAS NOT BEEN PROPERLY COORDINATED WITH THE APPROVED EQUIPMENT MANUFACTURER(S), AND WHICH MUST BE REPAIRED, RELOCATED, ALTERED, REPLACED, REINSTALLED OR MODIFIED IN ANY MANNER, SHALL BE DONE TO THE SATISFACTION OF THE OWNER AND WITH NO ADDITIONAL COST TO THE OWNER OR THE DESIGN PROFESSIONAL.

ROOF OPENING INFILLS:

COORDINATE SIZES AND LOCATIONS OF EXISTING OPENINGS TO BE FILLED IN AFTER THE REMOVAL OF ROOFTOP EQUIPMENT (MECHANICAL UNITS, EXHAUST FANS, ETC.) WITH MECHANICAL CONTRACTOR AND GC/CM. OPENINGS SHALL BE FILLED IN AS FOLLOWS:

OPENINGS UP TO AND INCLUDING 13" SQUARE OR 13" DIAMETER: REMOVE ROOFING MATERIAL AND INSULATION TO EXPOSE EXISTING ROOF DECK TO 6" BEYOND THE EXISTING OPENING. PROVIDE GALVANIZED PLATE (16 Ga MINIMUM), EXTENDING 6" BEYOND THE OPENING ON EACH SIDE, TO BE PLACED ATOP THE EXISTING DECK AND FASTENED THROUGH THE FLUTES OF THE EXISTING DECK w/ (8)-#10 SCREWS.

OPENINGS GREATER THAN 13" SQUARE OR 13" DIAMETER: REMOVE ROOFING MATERIAL AND INSULATION TO EXPOSE EXISTING ROOF DECK TO 6" BEYOND THE EXISTING OPENING. PROVIDE PIECE OF 1½"D 18 Ga (MIN) ROOF DECK, PROFILE TO MATCH EXISTING EXPOSED ROOF DECK. FASTEN THROUGH THE FLUTES OF THE EXISTING DECK w/ #10 SCREWS AT 6" O.C. ALL AROUND.

ALL OPENINGS: AFTER INSTALLATION OF PLATE OR DECK, REPLACE ROOFING TO MATCH EXISTING CONSTRUCTION, AND SEAL ALL MEMBRANE LAPS TO RESTORE TO WATERTIGHT CONDITION.

DROP-IN FRAMES:

ANGLE FRAMES SHALL BE PROVIDED FOR THE FOLLOWING CONDITIONS ON THE EXISTING ROOF:

- ALL NEW OPENINGS FOR PIPING AND DUCTWORK GREATER THAN 13"x13" OR 13"Ø (SEE NOTE BELOW)
- BENEATH ANY NEW OR RELOCATED CONDENSING UNITS OR OTHER LIGHT ROOFTOP EQUIPMENT BEING INSTALLED OR RELOCATED

FOR ROOF OPENINGS UP TO 13"x13" OR 13" DIAMETER:

- PROVIDE GALVANIZED PLATE 16"x16" (16 GA), FASTENED WITH (8)-#10 SCREWS

COORDINATE LOCATIONS OF UNITS AND OPENINGS SHOWN, AS WELL AS ADDITIONAL EQUIPMENT INDICATED ON MECHANICAL DRAWINGS, WITH TRADE CONTRACTOR(S). ALL FRAMES FOR NEW OPENINGS SHALL BE 4-SIDED.

REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF NEW ROOF OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS.

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New York • Pennsylvania

REVISION NO:

BID Documents
April 10, 2026

KEY PLAN

AES SED #60-06-01-06-0-008-018

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

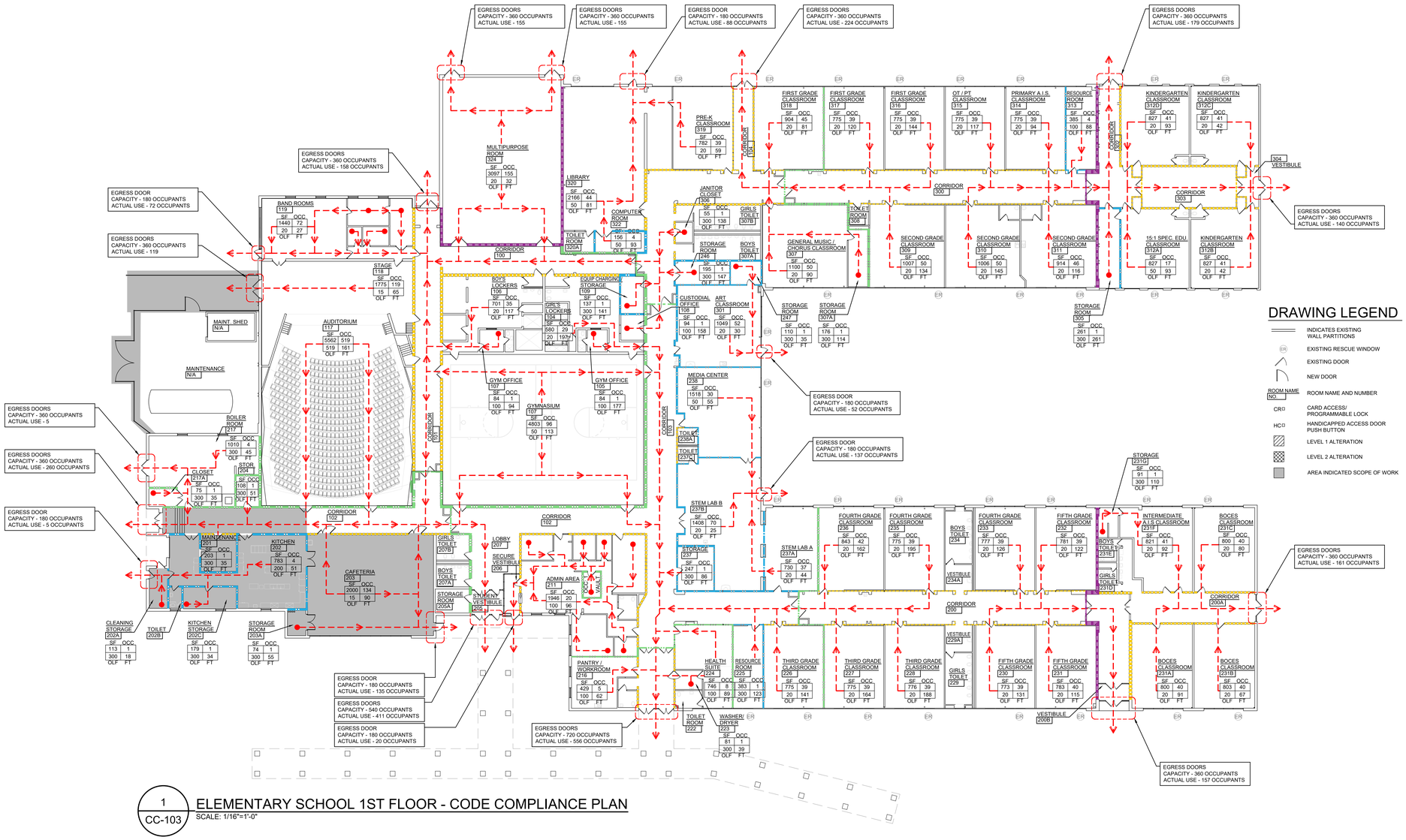
EXISTING ROOF FRAMING PLAN

DRAWN BY:	CHECKED BY:
N.A.C.	E.D.M.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

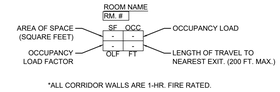
DRAWING NO:
S-101

CAD FILE: 4240-AES-S101.DWG PLOT DATE: 4/10/2026



1 CC-103 ELEMENTARY SCHOOL 1ST FLOOR - CODE COMPLIANCE PLAN
SCALE: 1/16"=1'-0"

CODE COMPLIANCE LEGEND



*ALL CORRIDOR WALLS ARE 1-HR. FIRE RATED.

- 1-HR. FIRE PARTITION
- 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- 2-HR. FIRE WALL
- PATH OF EGRESS

NOTE:
ALL FIRE RATED WALLS ARE EXISTING ASSEMBLIES FROM PREVIOUS CONSTRUCTION PROJECTS UNLESS NOTED OTHERWISE.

FIRST FLOOR ELEMENTARY SCHOOL OCCUPANT LOAD CALCULATION:

TOTAL OCCUPANT LOAD: 3,422 OCCUPANTS

OCCUPANT LOAD CALCULATION:
3,422 OCCUPANTS x .2 (EXIT DOORS WITHOUT SPRINKLERS)
= 685" EXIT WIDTH REQUIRED

MEANS OF EGRESS PROVIDED:
(36) 36" WIDE DOORS

TOTAL EXIT WIDTH PROVIDED: 1,296"

CODE INFORMATION

APPLICABLE CODES:
2020 Building Code of New York State (IBC 2018)
2020 Existing Building Code of New York State (IEBC 2018)
2018 Fire Code of New York State (IFC 2018)
2010 ADA Americans with Disabilities Act
2009 ICC/ANSI A117.1
2020 Energy Conservation Code of New York State (IECC 2018)
2020 Plumbing Code of New York State (IPC 2018)
2020 Mechanical Code of New York State (IMC 2018)
2017 National Electrical Code of New York State (NFPA 70 2017)
ASCE 7-16
2022 NYSED Manual of Planning Standards

BUILDING USE GROUP:
E - Educational

EXISTING CONSTRUCTION TYPE:
TYPE 2B Non-Combustible Construction (Elementary School)

EXISTING BUILDING CODE:
Alteration Level 2 - Work area is less than 50% of the Existing Building Area

AUTOMATIC SPRINKLER SYSTEM:
- Existing building - not sprinklered.
- Per Section 803.2.2 Exception #2 of the Existing Building Code, the work area is not required to be sprinklered when the work area is less than 50% of t he Floor Area.

EXISTING BUILDING AREA AND HEIGHT:

First Floor -		77,541 s.f
Fire Areas -		77,518 s.f.
Existing Height -	Main Building Areas -	15'-0" +/-
	Auditorium/Gym -	24'-0" +/-

SCOPE OF WORK AREAS
Band Room - Level 2 Alteration, 1,451 s.f.
Cafeteria - Level 2 Alteration, 2,077 s.f.
Kitchen Area 1 - Level 1 Alteration, 783 s.f.
Kitchen Area 2 - Level 1 Alteration, 660 s.f.
Fence Area - Level 2 Alteration, 2,344 s.f.
Playground - Level 2 Alteration, TBD s.f.

FIRE RESISTANCE RATING (TABLE 601): EXISTING BUILDING - Type 2B

Building Element	Fire Resistance Rating
Primary Structural Frame (Columns)	0 Hr.
Bearing Walls - Exterior & Interior	0 Hr.
Floor Construction	0 Hr.
Roof Construction & Secondary Members	0 Hr.
Exit Access Corridors	1 Hr.
Boiler Rooms	2 Hr.
Storage Rooms Over 100 s.f.	1 Hr.
Art Rooms	1 Hr.
Kitchen	1 Hr.

MEANS OF EGRESS
First Floor Occupant Load: 3,218 occupants
3,218 occ. x .2 (doors) = 644" exit width required.
First Floor Means of Egress provided - (26) 36" doors.
Total Exit Width Provided: X"
Area of rescue assistance not required.

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE
E Occupancy - 200 ft. without sprinklers.

TABLE 1006.2.1 COMMON PATH OF EGRESS TRAVEL DISTANCE
E Occupancy - 75 ft. without sprinklers.

DEAD END CORRIDOR (NYSED MPS-MOST RESTRICTIVE)
§107-1, C CORRIDORS:
Corridor pockets and dead end corridors shall be restricted to a depth of 1 and 1/2 times the width of the pocket, or to 1 and 1/2 times the width of the corridor, whichever is less.

PLUMBING FIXTURE CALCULATION ALTERATION LEVEL 2

809.1 Minimum Fixtures: The occupant load for the Renovated work areas has not increased the existing occupant load and is less than 20% of the story. (No additional plumbing fixtures are required).

2020 ENERGY CONSERVATION CODE
Owego NY, Tioga County - Climate Zone 5A

ROOF
Insulation entirely above roof deck - R-30 c.i.

WALLS

Mass Wall - Masonry:	R-11.4 c.i.
Metal Framed:	R-13 + R 7.5 c.i. (U - 0.064)

SLAB ON GRADE FLOORS

Unheated Slab:	R-10 for 24" below

OPAQUE DOORS R-4.75, U-0.37

FIXED GLASS /STOREFRONT

Operable Windows:	U Value: 0.45
Storefront Entrance Doors:	U Value 0.77

SEISMIC DESIGN

Risk Category:	III
Seismic Design Category:	B
Seismic Importance Category:	1.25

WIND DESIGN

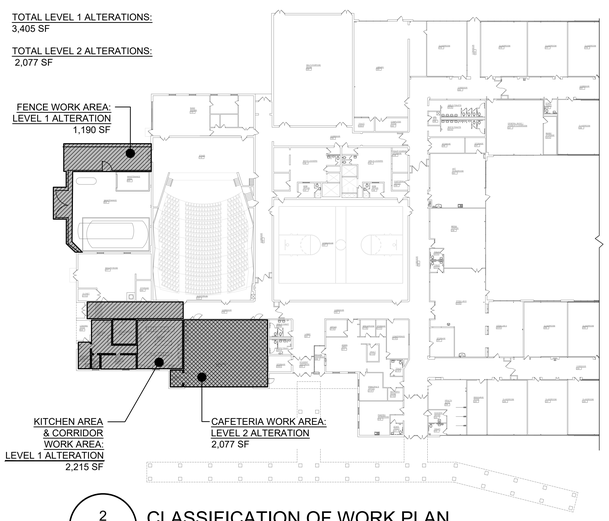
Risk Category:	III
Exposure Category:	C
Wind Speed:	118 MPH Basic Wind Speed

DRAWING LEGEND

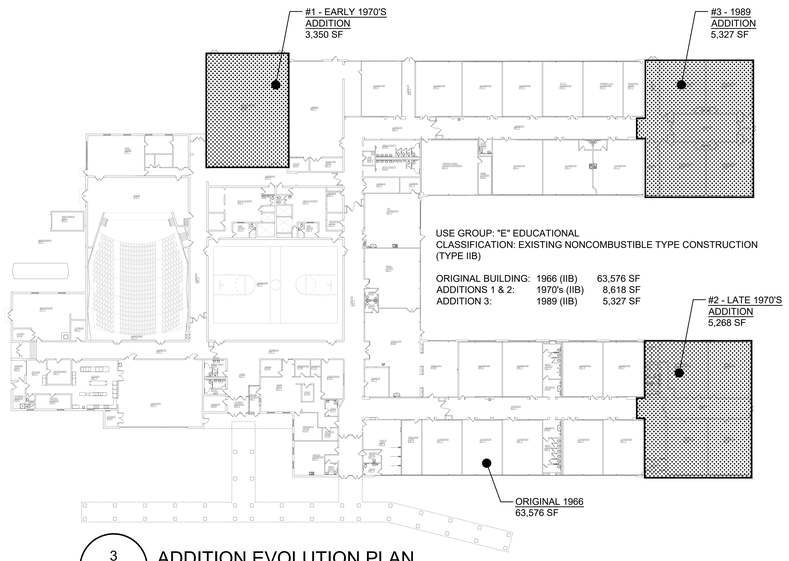
- INDICATES EXISTING WALL PARTITIONS
- (ER) EXISTING RESCUE WINDOW
- EXISTING DOOR
- NEW DOOR
- ROOM NAME / NO. — ROOM NAME AND NUMBER
- CR — CARD ACCESS/ PROGRAMMABLE LOCK
- HC — HANDICAPPED ACCESS DOOR PUSH BUTTON
- LEVEL 1 ALTERATION
- LEVEL 2 ALTERATION
- AREA INDICATED SCOPE OF WORK

TOTAL LEVEL 1 ALTERATIONS:
3,405 SF

TOTAL LEVEL 2 ALTERATIONS:
2,077 SF



2 CC-103 CLASSIFICATION OF WORK PLAN
SCALE: 1/32"=1'-0"



3 CC-103 ADDITION EVOLUTION PLAN
SCALE:1/32"=1'-0"



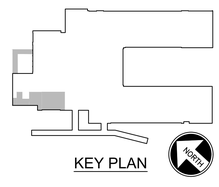
4 CC-103 SMOKE ZONE - AREA PLAN
SCALE: 1/32"=1'-0"

NOTE: PER PREVIOUS NYSED PLAN REVIEW, THE REVIEWER REQUIRED AES BUILDING TO BE DIVIDED INTO 12,000 SF SMOKE ZONES WITH 2-HOUR FIRE BARRIERS.

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New York • Pennsylvania

REVISION NO:

BID Submission
April 10, 2026



KEY PLAN

AES SED #60-06-01-06-0-008-018

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

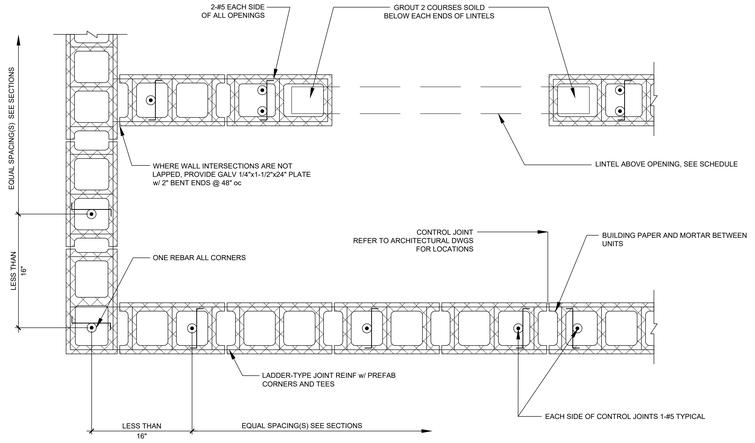
CODE COMPLIANCE PLAN - ELEMENTARY SCHOOL

DRAWN BY:	CHECKED BY:
A.G. / T.M.	R.S.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING: AES

DRAWING NO: CC-100

CAD FILE: 4240-AES-CC-100.DWG PLOT DATE: 4/10/2026

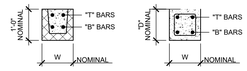


TYPICAL MASONRY WALL REINFORCING SCHEMATIC

SCALE: 1-1/2"=1'-0"

1. USE REBAR POSITIONERS FOR ALL BARS
2. ALL REBAR TO BE SET IN 2000 PSI GROUT

LINTEL DETAILS



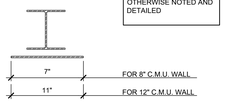
C.M.U.

PRECAST

NOTE:
ALL NEW EXTERIOR STEEL LINTELS TO BE GALVANIZED & NOT TO BE CUT IN FIELD (TYP.)

NOTE:
LINTEL SCHEDULE IS TO BE USED FOR MEP OPENINGS IN NEW OR EXISTING WALLS UNLESS OTHERWISE NOTED AND DETAILED

ALL EXPOSED LINTELS TO BE MASONRY, IF STEEL LINTELS ARE TO BE USED THEY MUST BE ABOVE THE CEILING. (TYP.)





ANGLE LINTEL DETAIL

BEAM BOTT. PL. LINTEL DETAIL

EXTEND BOTT. PL. INTO BEARING AREA

LINTEL SCHEDULES

C.M.U. LINTELS

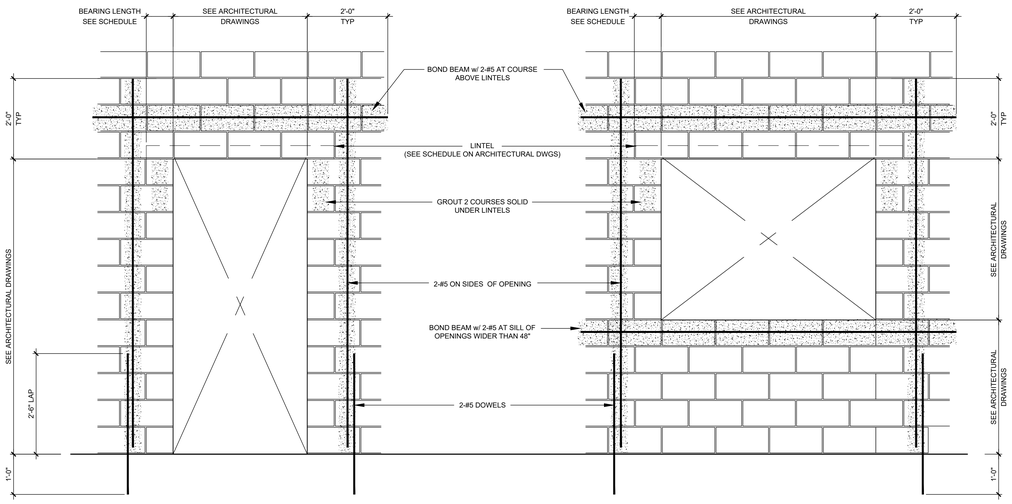
M.O.	W (IN.)	D (IN.)	"B" BARS	"T" BARS	MIN. BEARING EACH END (IN.)
3'-0"	6	8	1-#3	-	8
3'-0"	8	8	2-#3	-	8
3'-0"	12	8	2-#4	-	8
4'-0"	6	8	1-#3	-	8
4'-0"	8	8	2-#3	-	8
4'-0"	12	8	2-#4	-	8
5'-0"	6	8	1-#5	-	8
5'-0"	8	8	2-#4	-	8
5'-0"	12	8	2-#5	-	8
6'-0"	6	16	1-#4	-	8
6'-0"	8	8	2-#5	-	8
6'-0"	12	8	2-#7	-	8
6'-0"	12	16	2-#4	-	8
7'-0"	6	16	1-#4	-	8
7'-0"	8	16	2-#4	-	8
7'-0"	12	16	2-#5	-	8
8'-0"	6	16	1-#5	-	8
8'-0"	8	16	2-#5	-	8
8'-0"	12	16	2-#6	-	8

PRECAST LINTELS

M.O.	W (IN.)	D (IN.)	"B" BARS	"T" BARS	STIRRUPS	MIN. BEARING EACH END (IN.)
UP TO 4'-0"	8	8	2-#4	2-#4	-	8
UP TO 4'-0"	12	8	2-#4	2-#4	-	8
4'-0" TO 5'-0"	8	8	2-#4	2-#4	-	8
4'-0" TO 5'-0"	12	8	2-#4	2-#4	-	8
5'-0" TO 6'-0"	8	8	2-#4	2-#4	-	8
5'-0" TO 6'-0"	12	8	2-#5	2-#5	-	8
6'-0" TO 7'-0"	8	8	2-#4	2-#4	-	8
6'-0" TO 7'-0"	12	8	2-#5	2-#5	-	8
7'-0" TO 8'-0"	8	16	2-#5	2-#5	-	8
7'-0" TO 8'-0"	12	16	3-#5	3-#5	-	8
8'-0" TO 9'-0"	8	16	2-#5	2-#5	-	10
8'-0" TO 9'-0"	12	16	3-#5	3-#5	-	10
9'-0" TO 10'-0"	8	16	2-#6	2-#6	#3@6 1/2"	10
9'-0" TO 10'-0"	12	16	3-#6	3-#6	-	10
10'-0" TO 11'-0"	8	16	2-#6	2-#6	#3@6 1/2"	12
10'-0" TO 11'-0"	12	16	3-#6	3-#6	-	12
11'-0" TO 12'-0"	8	16	2-#6	2-#6	#3@6 1/2"	12
11'-0" TO 12'-0"	12	16	3-#6	3-#6	-	12

STEEL LINTELS

MASONRY OPNG	8" C.M.U	12" C.M.U.	MIN. BRG. EA. END
UP TO 3'-6"	2L5 3 1/2x3 1/2x5/16	3L5 3 1/2x3 1/2x5/16	8"
3'-7" TO 4'-6"	2L5 3 1/2x3 1/2x5/16	3L5 3 1/2x3 1/2x5/16	8"
4'-7" TO 5'-6"	2L5 5x3 1/2x5/16 LLV	3L5 5x3 1/2x5/16 LLV	8"
5'-7" TO 6'-6"	2L5 6x3 1/2x5/16 LLV	3L5 6x3 1/2x5/16 LLV	8"
6'-7" TO 7'-6"	2L5 6x3 1/2x3/8" LLV	3L5 6x3 1/2x3/8" LLV	8"
7'-7" TO 8'-6"	W 8x10+5/16 BOTT. PL.	W 8x10+5/16 BOTT. PL.	8"
8'-7" TO 9'-6"	W 8x10+5/16 BOTT. PL.	W 8x10+5/16 BOTT. PL.	10"
9'-7" TO 10'-6"	W 8x13+5/16 BOTT. PL.	W 8x13+5/16 BOTT. PL.	10"
10'-7" TO 11'-6"	W 8x13+5/16 BOTT. PL.	W 8x13+5/16 BOTT. PL.	12"
11'-7" TO 12'-6"	W 8x13+5/16 BOTT. PL.	W 8x15+5/16 BOTT. PL.	12"
12'-7" TO 13'-6"	W 8x13+5/16 BOTT. PL.	W 8x15+5/16 BOTT. PL.	13"
13'-7" TO 14'-6"	W 10x15+5/16 BOTT. PL.	W 10x19+5/16 BOTT. PL.	14"



TYPICAL MASONRY WALL OPENING DETAIL

SCALE: 3/4"=1'-0"

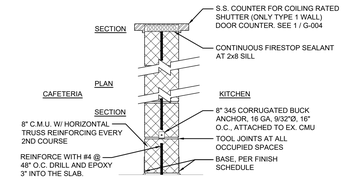
GENERAL NOTES (MASONRY)

1. MASONRY WALLS HAVE BEEN DESIGNED AND SHALL BE CONSTRUCTED TO HAVE A STRENGTH OF f'm = 1500 PSI.
2. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT (130 PCF) ASTM C90 WITH AN AVERAGE NET COMPRESSIVE STRENGTH OF 1900 PSI. MINIMUM FACE SHELL THICKNESS FOR 12" CMU SHALL BE 1.25".
3. PROVIDE SPECIAL SHAPES (CORNER, END, CONTROL JOINT, RADIUSED EDGE, DOUBLE OPEN END, ETC.) AS DETAILED ON DRAWINGS.
4. MORTAR SHALL BE ASTM C270. ALL CMU MASONRY SHALL BE LAID IN A FULL BED OF MORTAR (INCLUDING ALL WEBS)

ALL FOUNDATION AND RETAINING WALLS	TYPE M	2500 PSI
ALL ABOVE GRADE EXTERIOR WALLS	TYPE S	1800 PSI
ABOVE GRADE VENEER	TYPE N	750 PSI

5. GROUT SHALL CONFORM TO ASTM C476. GROUT SHALL HAVE A COMPRESSIVE STRENGTH OF 2000 PSI AND CONTAIN PEA GRAVEL AGGREGATE. GROUTING OF MASONRY w/ VERTICAL REINFORCEMENT SHALL BE PERFORMED IN 48" LIFT HEIGHTS (MAXIMUM) UNLESS CONTRACTOR CAN DEMONSTRATE EXPERIENCE WITH HIGH-LIFT GROUTING. HIGH LIFT GROUTING WOULD INVOLVE CREATING OUTLET HOLES AT THE BOTTOM OF EVERY VERTICAL GROUT COLUMN AND PUMPING GROUT CONTAINING "GLENIUM" FROM TOP OF WALL UNTIL GROUT FLOWS OUT OF BOTTOM OUTLET HOLE. HIGH LIFT MUST BE CONTINUOUSLY INSPECTED.
6. REFER TO ARCHITECTURAL ELEVATIONS FOR SURFACE TEXTURE AND COLOR OF UNITS AND MORTAR.
7. VERTICAL REINFORCING SHALL BE ASTM A615 GRADE 60 NEW REINFORCING. VERTICAL REINFORCING TO BE WELDED SHALL BE ASTM A706. USE 9 GAUGE GALVANIZED REBAR POSITIONERS BY WIRE BOND OR EQUAL IN EVERY FIFTH COURSE. GROUT ALL CELLS WITH VERTICAL REINFORCEMENT SOLID. LAP BARS 30", PROVIDE DOWELS INTO FOOTINGS FOR ALL VERTICAL BARS IN NEW CONSTRUCTION AND DRILL AND EPOXY 12" INTO EXISTING CONSTRUCTION.
8. HORIZONTAL REINFORCMENT SHALLBE 9 GAUGE HOT-DIP GALVANIZED LADDER-TYPE CONFORMING TO ASTM A951, AT 16" O.C. ABOVE GRADE. PROVIDE PREFABRICATED TEES AND CORNERS.
9. BOND BEAMS SHALL BE CONTINUOUS AND SHALL HAVE CORNER BARS AT INTERSECTIONS. REFER TO STRUCTURAL AND ARCHITECTURAL SECTIONS FOR LOCATIONS.
10. REFER TO ARCHITECTURAL DRAWINGS FOR LINTEL SCHEDULE.

WALL TYPE



TYPE 1 — 7-5/8" C.M.U. PARTITION	FIRE RATING	DESIGN NO.	DESIGN STC
1 — 7-5/8" LIGHT WEIGHT BLOCK PARTITION: 2'-8" IN HEIGHT	1 HOUR	U.L. U905.	-
1A — 7-5/8" LIGHT WEIGHT BLOCK INFILL: FOR PIPING (NO COUNTER)	-	-	-

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

PARTITION TYPES & DETAILS

DRAWN BY:	CHECKED BY:
A.G. / T.M.	R.S. / C.R.
DATE:	PROJECT NO:
04/10/2026	2024-240P

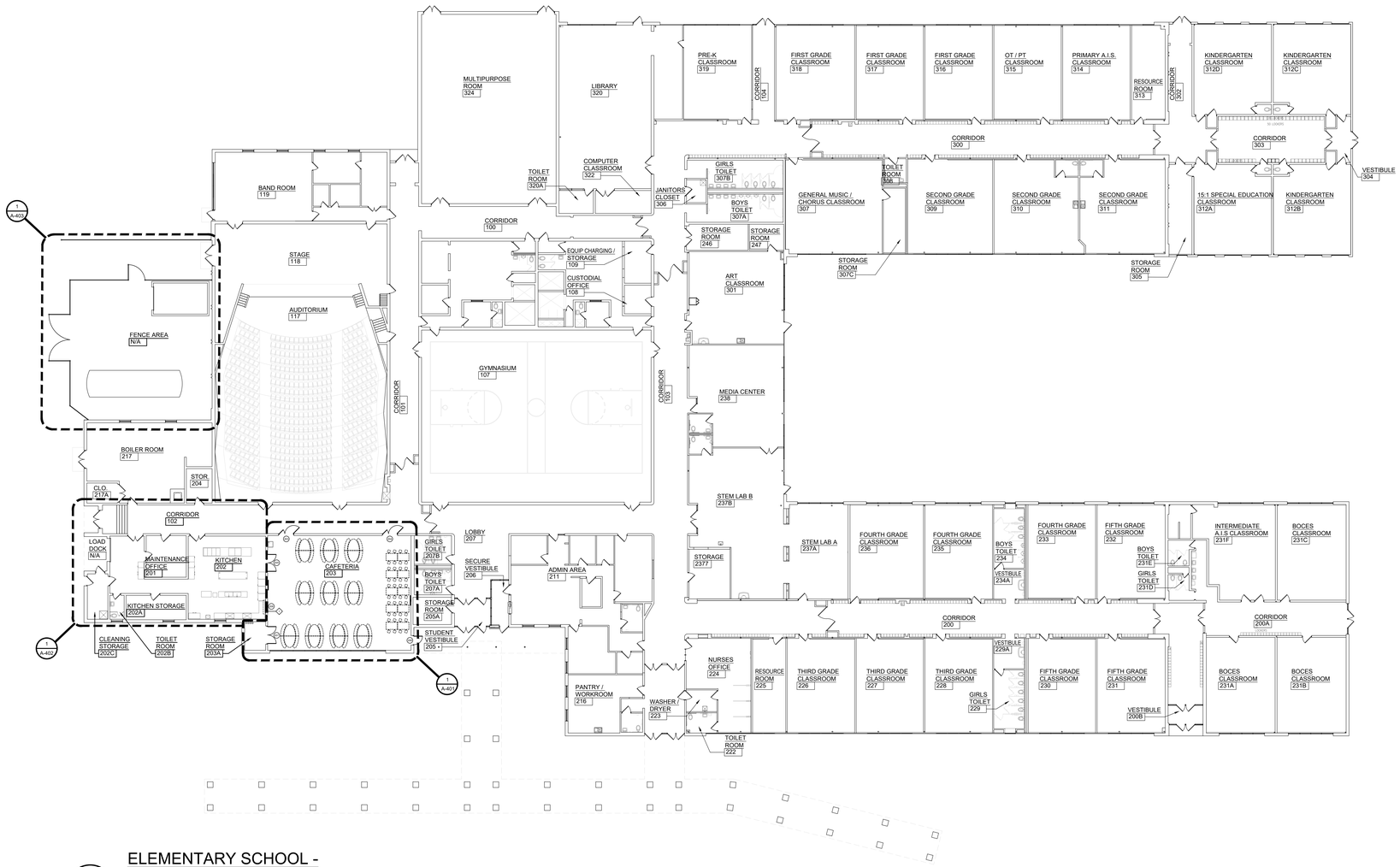
BUILDING: AES

DRAWING NO: A-100

CAD FILE: 4240-AES-A-100.DWG PLOT DATE: 11/6/2025

DRAWING LEGEND

- INDICATES AREA OF ALTERATION
- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING DOOR TO REMAIN
- NEW DOOR. FRAME TO REMAIN
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- X — CONSTRUCTION KEY NOTE INDICATOR
- 000 — DOOR NUMBER INDICATOR
- X — WALL TYPE INDICATOR



1 A-101 — ELEMENTARY SCHOOL - COMPOSITE PLAN

SCALE: 1/16"=1'-0"

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REVISION NO:

BID Documents
April 10, 2026

KEY PLAN

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405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

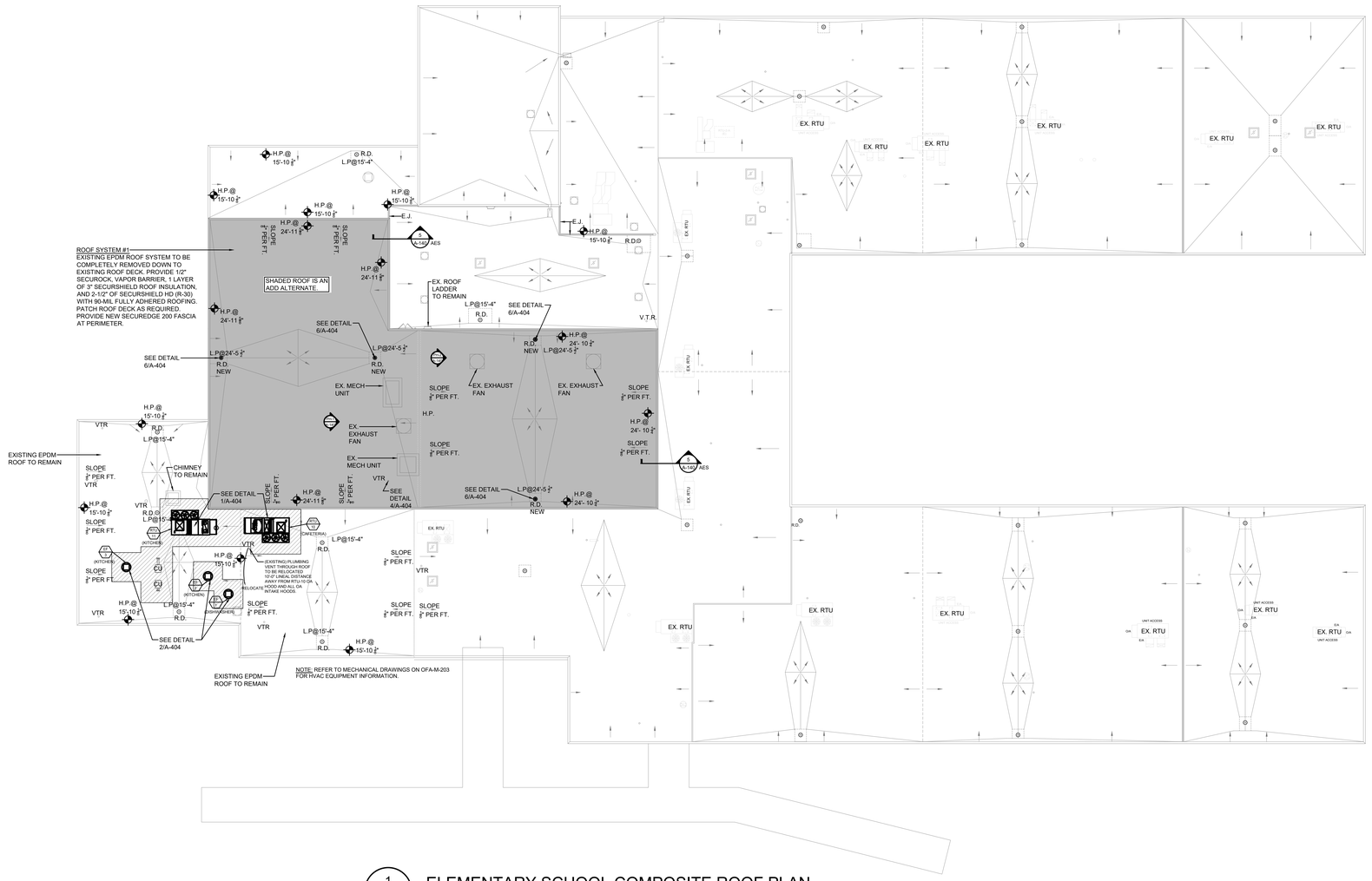
COMPOSITE PLAN

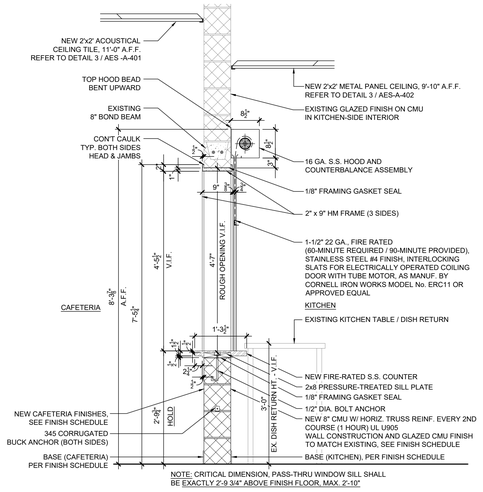
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A.G. / T.M.	R.S. / C.R.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING: AES

DRAWING NO: A-101

CAD FILE: 4240-AES-A-101.DWG PLOT DATE: 4/10/2026

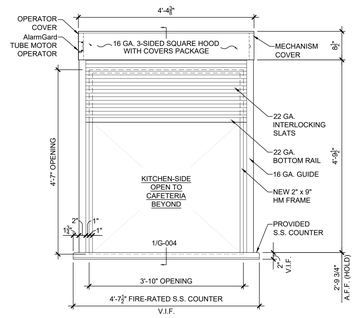

ROOF SYSTEM #1
EXISTING EPDM ROOF SYSTEM TO BE COMPLETELY REMOVED DOWN TO EXISTING ROOF DECK. PROVIDE 1/2" SECUROCK, VAPOR BARRIER, 1 LAYER OF 3" SECURSHIELD ROOF INSULATION, AND 2-1/2" OF SECURSHIELD HD (R-30) WITH 90-MIL FULLY ADHERED ROOFING. PATCH ROOF DECK AS REQUIRED. PROVIDE NEW SECUREDGE 200 FASCIA AT PERIMETER.
SHADED ROOF IS AN ADD ALTERNATE.
EXISTING EPDM ROOF TO REMAIN
EXISTING EPDM ROOF TO REMAIN
NOTE: REFER TO MECHANICAL DRAWINGS ON OFA-M-203 FOR HVAC EQUIPMENT INFORMATION.
EX. ROOF LADDER TO REMAIN
EX. MECH UNIT
EX. EXHAUST FAN
EX. EXHAUST FAN
EX. EXHAUST FAN
EX. MECH UNIT
CHIMNEY TO REMAIN
(EXISTING) PLUMBING VENT THROUGH ROOF TO REMAIN. MAINTAIN 10'-0" LINEAL DISTANCE AWAY FROM RTU-10 OA HOOD AND ALL OA INTAKE HOODS.
RELOCATE
SEE DETAIL 6/A-404
SEE DETAIL 1/A-404
SEE DETAIL 2/A-404
SEE DETAIL 4/A-404
SEE DETAIL 6/A-404
SEE DETAIL 6/A-404
SEE DETAIL 6



NOTE: CRITICAL DIMENSION, PASS-THRU WINDOW SILL SHALL BE EXACTLY 2'-9 3/4" ABOVE FINISH FLOOR, MAX. 2'-10"

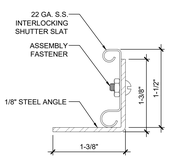
1 / A-150 SECTION DETAIL - FIRE-RATED COUNTER SHUTTER

SCALE: 3/4" = 1'-0"



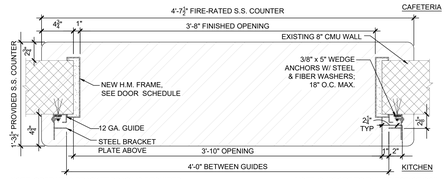
2 / A-150 ELEVATION DETAIL - FIRE-RATED COUNTER SHUTTER

SCALE: 3/4" = 1'-0"



3 / A-150 22 GA. BOTTOM RAIL DETAIL FIRE-RATED COUNTER SHUTTER

SCALE: 12" = 1'-0"



NOTE: OPERATOR BRACKET BRACING REQUIRED, UNLESS OPERATOR IS WALL MOUNTED

NOTE: SUPPORT TO RUN TO TOP OF COIL

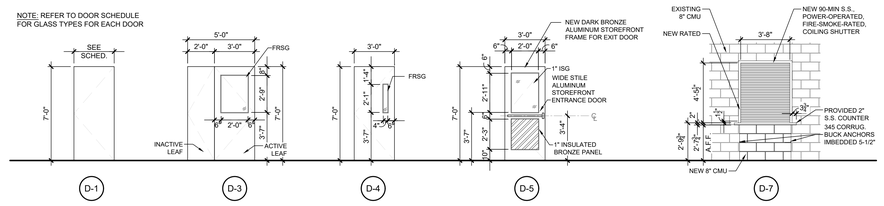
4 / A-150 PLAN DETAIL - FIRE-RATED COUNTER SHUTTER

SCALE: 1-1/2" = 1'-0"

DOOR TYPES

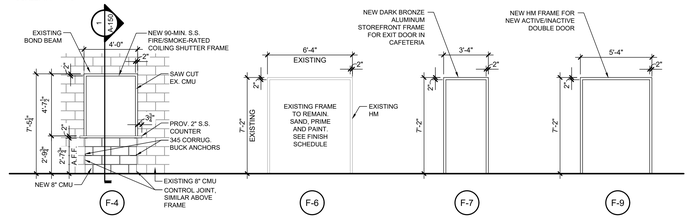
SCALE: 1/4" = 1'-0"

NOTE: REFER TO DOOR SCHEDULE FOR GLASS TYPES FOR EACH DOOR



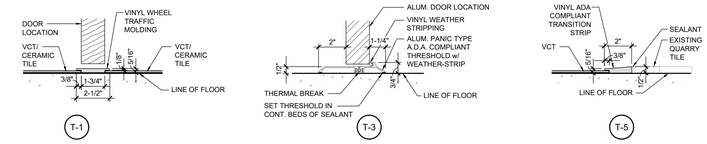
FRAME TYPES

SCALE: 1/4" = 1'-0"



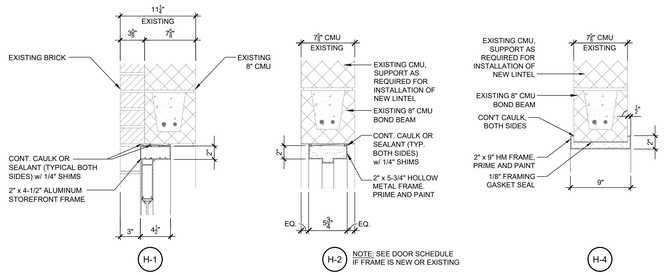
THRESHOLD TYPES

SCALE: 3" = 1'-0"



HEAD TYPES

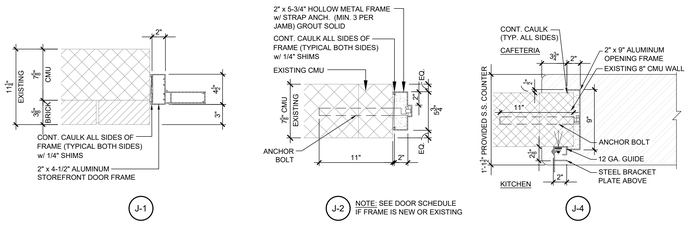
SCALE: 1 1/2" = 1'-0"



NOTE: SEE DOOR SCHEDULE IF FRAME IS NEW OR EXISTING

JAMB TYPES

SCALE: 1 1/2" = 1'-0"



NOTE: SEE DOOR SCHEDULE IF FRAME IS NEW OR EXISTING

GENERAL DOOR NOTES

1. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DOOR / FRAME SIZES, DIMENSIONS, DOOR SWINGS, DOOR / FRAME MATERIALS, DOOR / FRAME TYPES, FRAME WIDTH THROAT DEPTH AND FRAME HEAD HEIGHT.
2. GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL DOOR HARDWARE REQUIREMENTS FOR ALL FRAMES INDICATED. ALL SUBMITTALS ISSUED TO THE ARCHITECT SHALL REFLECT THIS FIELD VERIFIED COORDINATION.
3. ALL FRAMES SHALL BE SHIMMED / CONTINUOUSLY CAULKED IN ACCORDANCE WITH ACCEPTED PRACTICES
4. ALL EXTERIOR HOLLOW METAL DOORS / FRAMES INDICATED SHALL BE GALVANIZED STEEL AND ALL EXTERIOR DOORS AND FRAMES SHALL BE INSULATED
5. ALL HOLLOW METAL FRAMES IN MASONRY WALLS ARE TO BE GROUTED SOLID, INCLUDING HEADS
6. ALL WOOD DOORS ARE TO HAVE SOLID CORE. ALL WOOD DOOR EDGES SHALL BE FACTORY FINISHED AND SHALL MATCH DOOR FACE VENEER AND FINISH
7. SEE SPECIFICATIONS FOR HARDWARE SETS FOR ALL DOORS
8. REFER TO FINISH SCHEDULE FOR FINISHES
9. REFER TO PLANS FOR PROPER DOOR SWINGS
10. ALL HOLLOW METAL FRAMES SHALL BE FULLY WELDED, NO KNOCK-DOWN FRAMES WILL BE ACCEPTED ALL NEW DOOR FRAMES SHALL MATCH THAT OF EXISTING REMOVED TYPICAL.
11. GENERAL CONTRACTOR SHALL VERIFY ALL THRESHOLDS, DOOR UNDERCUTS/LOUVER SIZES, w/ NEW AND EXISTING DOORS.
12. THE USE OF THRU-BOLTING FOR ANY DOOR HARDWARE WILL NOT BE ACCEPTED
13. GENERAL CONTRACTOR SHALL COORDINATE WHERE DOORS / FRAMES REQUIRE CONDUITS OR WIRING INSTALLED DURING FRAME INSTALLATION FOR FUTURE ELECTRICAL CONNECTIONS FOR LOCKS, STRIKES ETC.
14. ALL EXTERIOR DOORS/FRAMES INDICATED SHALL BE HOLLOW METAL AND ALL EXTERIOR DOORS/FRAMES SHALL BE INSULATED AND FRAMES TO BE THERMALLY BROKEN.
15. REFER TO PLANS FOR CARD READER LOCATIONS.
16. EXISTING DOOR, FRAME AND HARDWARE TO REMAIN. REMOVE EXISTING WIRE GLASS. PROVIDE NEW VISION LIGHT KIT w/FIRE RATED SAFETY GLASS. FIELD VERIFY EXISTING DOOR RATING.
17. PATCH EXISTING HM FRAMES, PREP HM FRAMES FOR NEW CONT. HINGES.

MATERIALS

ALUM	-	ALUMINUM
CRH	-	CARD READER (HARDWIRED)
CRW	-	CARD READER (WIRELESS)
FRSG	-	FIRE RATED SAFETY GLASS
FRP	-	FIBERGLASS REINFORCED PLASTIC
GL	-	GLASS
HM	-	HOLLOW METAL
ISG	-	INSULATED SAFETY GLASS
MARB	-	MARBLE
SS	-	STAINLESS STEEL
TSG	-	TEMPERED SAFETY GLASS
VIN	-	VINYL
WD	-	WOOD

DOOR REMARKS

1. PROVIDE FIRE-RATED SAFETY GLASS
2. [NOT USED]
3. PROVIDE CARD READER (WIRELESS)
4. REMOVE EXISTING TRANSOM LOUVER AND INFILL WITH 45 MIN. FIRE RATED WOOD DOOR INFILL PANEL TO MATCH DOOR.
5. PROVIDE 1" INSULATED SAFETY GLASS
6. POWER-OPERATED, FIRE-RATED COILING FIRE SHUTTER WITH COUNTER STILL TIE INTO FIRE ALARM.
7. RE-USE EXISTING DOOR HARDWARE, WIRELESS LEVER SET, AND WIRELESS CARD READER
8. SAND, PRIME, AND PAINT EXISTING FRAME. COLOR CHOSEN BY ARCHITECT.
9. PROVIDE DOOR CLOSER.
10. PROVIDE CARD READER (HARDWIRED)
11. PROVIDE 1/4" TEMPERED GLASS
12. ACTIVE/INACTIVE DOUBLE DOOR - VISION LITE LOCATED ON ACTIVE LEAF ONLY

DOOR SCHEDULE

AES CAFETERIA

DOOR NO.	DOOR TYPE	DOOR MAT'L	DOOR NOMINAL SIZE WIDTH	DOOR NOMINAL SIZE HEIGHT	DOOR NOMINAL SIZE THKNS.	GLASS TYPE	FRAME TYPE	FRAME MAT'L	JAMB TYPE	JAMB MAT'L	HEAD TYPE	HEAD MAT'L	THRESHOLD TYPE	THRESHOLD MAT'L	HARDWARE SET	FIRE RATING	CARD READER	REMARKS
203	D-3	WD	ACTIVE: 3'-0" INACTIVE: 2'-0"	7'-0"	1 3/4"	FRSG	F-9	HM	J-2	HM	H-2	HM	T-1	VIN	05	45MIN	-	1 & 12
204	D-3	WD	ACTIVE: 3'-0" INACTIVE: 2'-0"	7'-0"	1 3/4"	FRSG	F-9	HM	J-2	HM	H-2	HM	T-1	VIN	05	45MIN	-	1 & 8
205	D-4	WD	(2)3'-0"	7'-0"	1 3/4"	FRSG	F-6	HM	EX	HM	EX	HM	T-1	VIN	04	45MIN	-	1 & 8
206	D-7	SS	3'-8"	4'-5 1/2"	22 GA	-	F-4	SS	J-4	SS	H-4	SS	-	-	11	1HR	-	6 **REFER TO DETAIL 1 / G-004
207	D-1	WD	(2)3'-0"	7'-0"	1 3/4"	-	F-6	HM	EX	HM	EX	HM	T-1	VIN	12	45MIN	-	2 & 8
208	D-5	ALUM	3'-0"	7'-0"	1 3/4"	ISG	F-7	ALUM	J-1	ALUM	H-1	ALUM	T-3	ALUM	09	-	-	5 & 9 - EXTERIOR EXIT DOOR

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

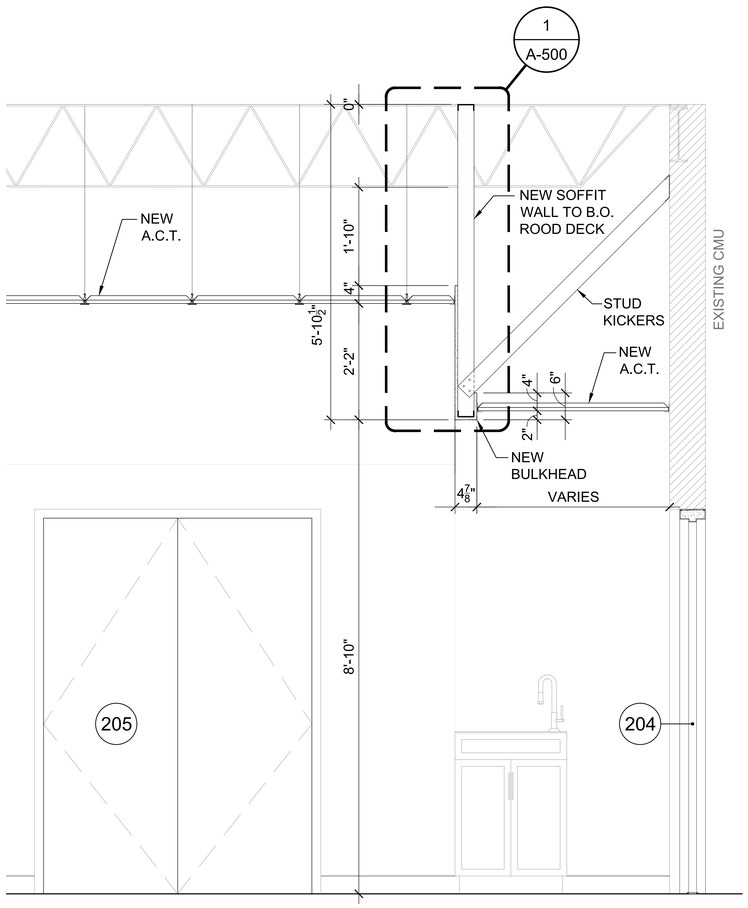
DOOR SCHEDULE, DOOR & FRAME TYPES, DETAILS, SECTIONS & NOTES

DRAWN BY:	CHECKED BY:
T.M.	R.S. / C.R.
DATE: 04/10/2026	PROJECT NO: 2024-240P

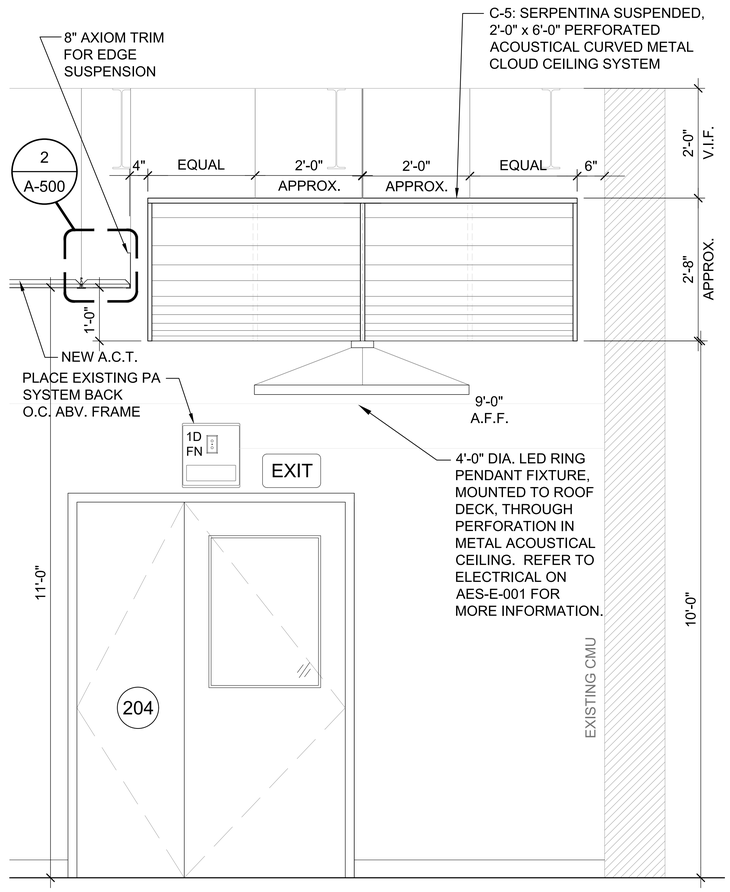
BUILDING: AES

DRAWING NO: A-150

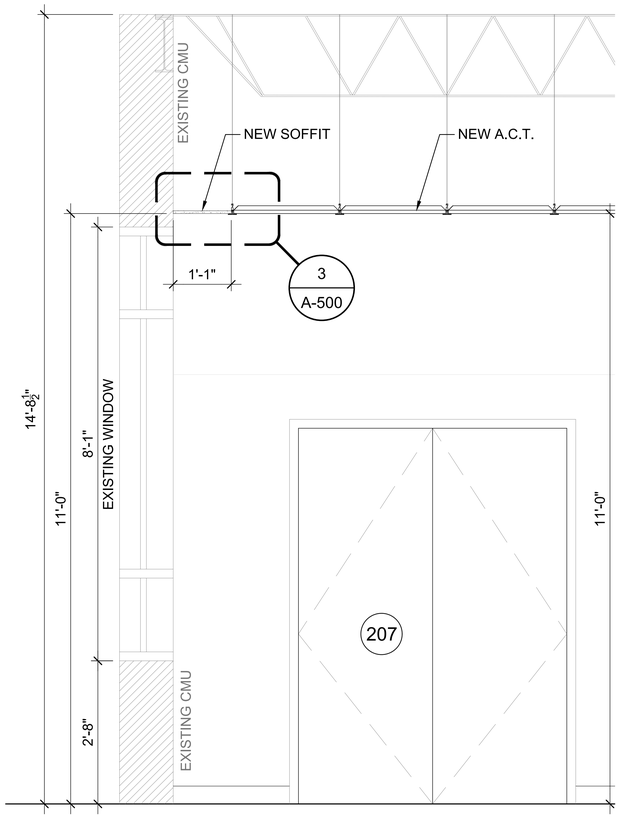
CAD FILE: 4240-AES-A-150.DWG PLOT DATE: 11/6/2025



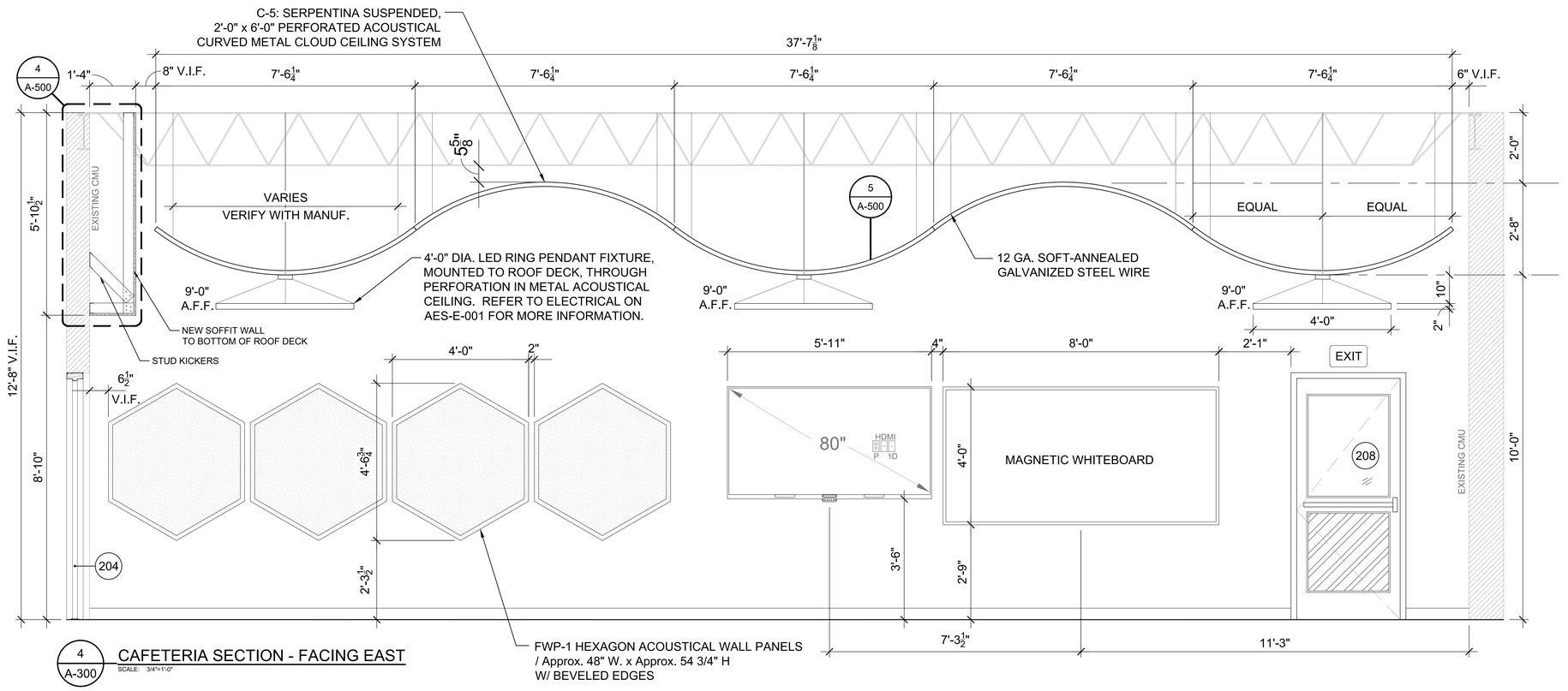
1 A-300 CAFETERIA SECTION - FACING WEST
SCALE: 1"=1'-0"



2 A-300 CAFETERIA SECTION - FACING NORTH
SCALE: 1"=1'-0"



3 A-300 CAFETERIA SECTION - FACING WEST
SCALE: 1"=1'-0"



4 A-300 CAFETERIA SECTION - FACING EAST
SCALE: 3/4"=1'-0"

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SEALS:

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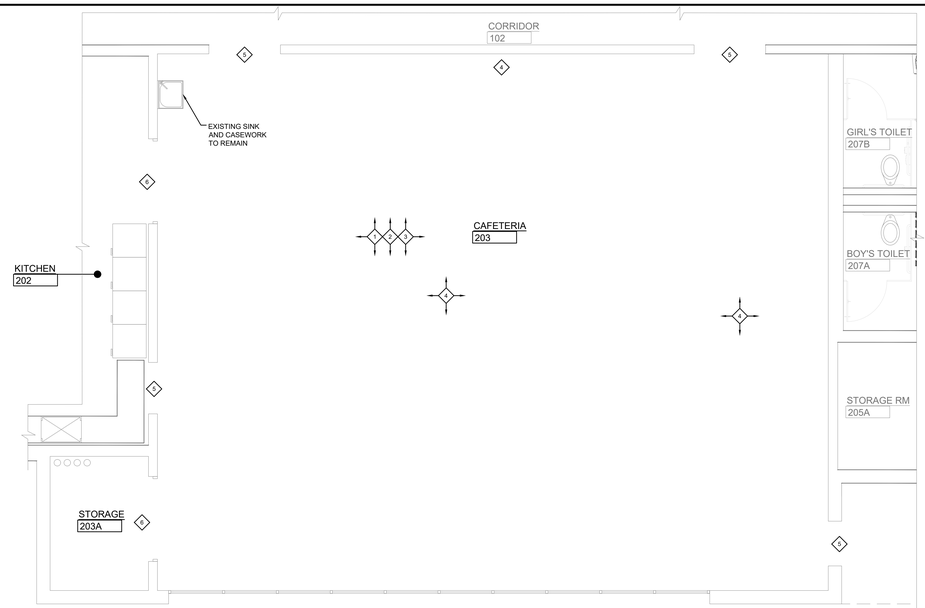
SECTIONS - CAFETERIA

DRAWN BY:	CHECKED BY:
T.M.	R.S.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
A-300

CAD FILE: 4240-AES-A-300.DWG PLOT DATE: 4/10/2026



NOTE: DRAWING CONTAINS RCP DEMOLITION IN ADDITION

DEMOLITION LEGEND

- DEMOLITION KEY NOTE INDICATOR
- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED

DEMOLITION KEY NOTES

1. REMOVE EXISTING WALL FINISHES AND ANY ADHESIVES ON EXISTING CMU WALLS.
2. REMOVE EXISTING CEILING SYSTEM AND ALL CEILING EQUIPMENT, INCLUDING DIFFUSERS, LIGHTING, SUSPENSION SYSTEMS, FANS, WALL ANGLES, BULKHEADS, AND SOFFITS.
3. REMOVE EXISTING VCT FLOOR FINISHES AND ADHESIVES
4. REMOVE AND STORE ALL FURNITURE AND EQUIPMENT ITEMS. COORDINATE LOCATION WITH OSD OR STORE OFF-SITE.
5. DEMOLISH EXISTING DOOR, DOOR FRAME, AND TRANSITION STRIP IN THEIR ENTIRETY.
6. DEMOLISH EXISTING DOOR AND TRANSITION STRIP ONLY. DOOR FRAME TO REMAIN.

PHOTO #1 - EXISTING (WEST FACING)

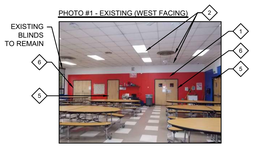
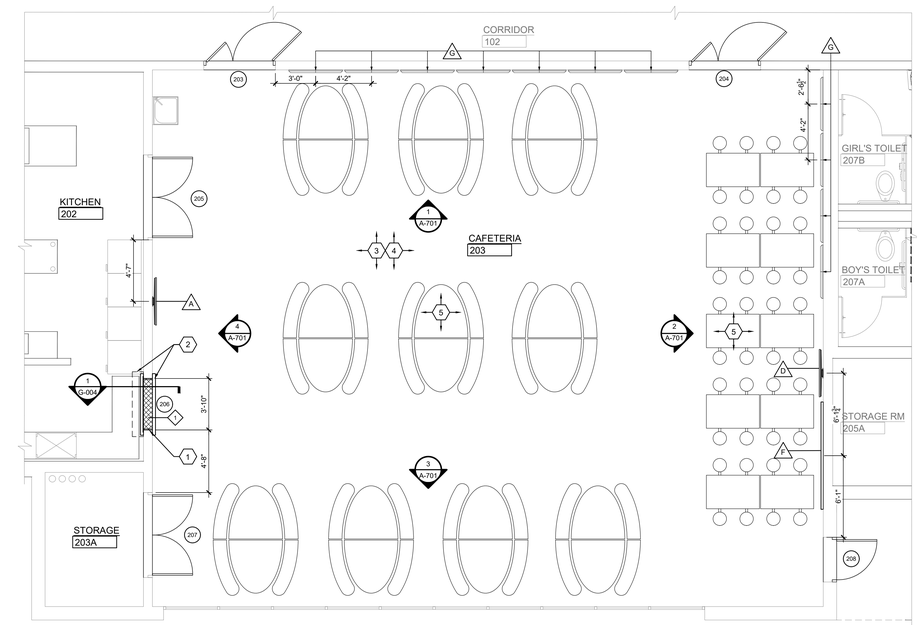


PHOTO #2 - EXISTING (EAST FACING)



1 / A-401 — ELEMENTARY SCHOOL - ENLARGED CAFETERIA DEMOLITION PLAN

SCALE: 1/4"=1'-0"



DRAWING LEGEND

- CONSTRUCTION KEY NOTE INDICATOR
- INDICATES EQUIPMENT NUMBER
- INDICATES DOOR NUMBER
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING DOOR TO REMAIN
- NEW DOOR WITH DOOR NUMBER. SEE DOOR SCHEDULE ON AES-A-150.
- NEW ACTIVE/INACTIVE DOUBLE DOOR AND FRAME, WITH DOOR NUMBER (INACTIVE LEAF / ACTIVE LEAF)
- NEW WALL, TYPE INDICATOR. SEE AES-A-100
- SECTION NUMBER / DRAWING NUMBER — INDICATES SECTION KEY

CONSTRUCTION KEY NOTES

1. NEW LOW WALL FOR NEW COILING DOOR, SEE WALL TYPE ON SHEET AES-A-100.
2. INSTALL NEW COUNTER TOP AND COILING FIRE SHUTTER FOR TRAY-RETURN. SEE DETAIL 1 ON AES-A-150.
3. INSTALL NEW WALL FINISHES. SEE FINISH SCHEDULE ON AES-A-701.
4. INSTALL NEW FLOOR FINISHES. SEE FINISH SCHEDULE ON AES-A-701.
5. PLACE AND INSTALL FURNITURE AND EQUIPMENT ITEMS. SEE FF&E SCHEDULE & ELECTRICAL DRAWINGS.

EQUIPMENT & FIXTURES SCHEDULE NOTES:

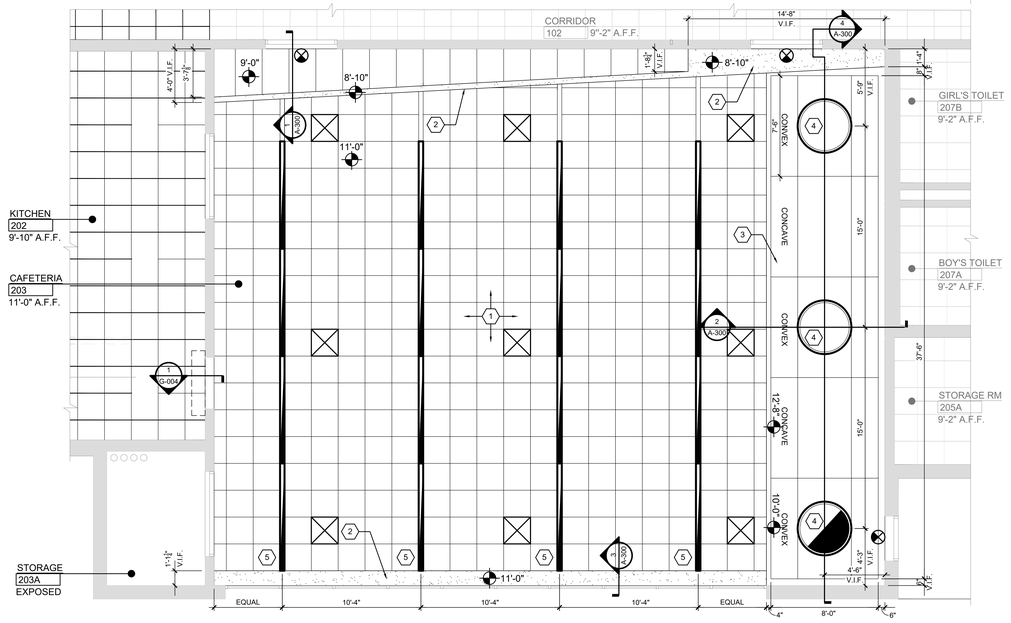
1. LOCATIONS AND SIZES OF VISUAL DISPLAY BOARDS (WHITEBOARDS AND TACKBOARDS) ARE REFERENCED ON THE INTERIOR ELEVATIONS. PLEASE NOTE - FOR THOSE SPACES WHICH DO NOT HAVE ELEVATIONS, THE SIZES OF THE BOARDS ARE DENOTED IN THE FLOOR PLAN.
2. COORDINATE WITH THE DISTRICT FOR SPECIFICATIONS, CUT SHEETS AND INSTALLATION INSTRUCTIONS FOR AUDIO/VIDEO ITEMS WHICH ARE DESIGNATED TO BE PROVIDED "BY OWNER" AND INSTALLED BY THE CONTRACTOR.
3. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DEVICES REQUIRING GROUND FAULT PROTECTION, SPECIALTY CONNECTIONS AND LOCATIONS FOR ALL FIRE ALARM, AND SPECIAL SYSTEMS DEVICES.
4. REFERENCE SECURITY AND ELECTRICAL DRAWINGS, AS WELL AS SPECIFICATIONS FOR CARD READER AND CAMERA LOCATIONS AND OTHER SECURITY SYSTEM DEVICES AND INFORMATION.
5. FINAL HOOK-UP OF ALL OWNER PROVIDED EQUIPMENT AND APPLIANCES REQUIRING MECHANICAL, PLUMBING OR HARDWIRED ELECTRICAL SERVICES SHALL BE BY THE CONTRACTOR.

FURNITURE, FIXTURES & EQUIPMENT SCHEDULE

NO.	EQUIPMENT ITEM	MANUF.	MODEL #	OWNER PROVIDED	OWNER INSTALLED	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED	REMARKS
A1	DIGITAL SIGNAGE AND BRACKET CONFERNCE ROOM DISPLAY MONITOR AND BRACKET	BY OWNER	BY OWNER	●	●			COORD. w/ OWNER FOR MODEL# AND MOUNTING HEIGHTS. PROVIDE IN WALL BLOCKING AS REQ'D.
A2	FLAT SCREEN DISPLAY (80" LCD) AND BRACKET	BY OWNER	BY OWNER	●	●			COORD. w/ OWNER FOR MODEL# AND MOUNTING HEIGHTS. PROVIDE IN WALL BLOCKING AS REQ'D.
A3	MAGNETIC WHITEBOARD (FRAMED)	MOORECO	PORCELAIN STEEL SERIES-31 TRIM MODEL #2021 (ORDER PER SIZE)				●	4'H x WIDTH DESIGNATED- SEE INTERIOR ELEVATIONS
A4	HEXAGON ACOUSTICAL WALL PANEL, BEVELED	KINETICS NOISE CONTROL				●	●	FWP-1: ~48"W x ~54 3/4"H W/ BEVELED EDGES AND TEKTILE COLORS. SEE FINISHES

2 / A-401 — ELEMENTARY SCHOOL - ENLARGED CAFETERIA RENOVATION PLAN

SCALE: 1/4"=1'-0"



CEILING LEGEND

- X — RCP KEY NOTE INDICATOR
- ROOM NAME / NO. / X'-X" A.F.F. — INDICATES ROOM NAME, ROOM NUMBER AND CEILING HEIGHT
- EXISTING 2'-0" x 2'-0" ACOUSTICAL CEILING TILE CONSTRUCTION TO REMAIN
- NEW 2'-0" x 2'-0" ACOUSTICAL GRID WITH NEW ACOUSTICAL CEILING TILE
- NEW PAINTED GYPSUM SOFFIT
- SUPPLY AIR DIFFUSER / RETURN GRILLES. COORDINATE WITH MECHANICAL DRAWINGS.
- 8'-0" x 4" RECESSED LIGHTING FIXTURE
- EMERGENCY 8'-0" x 4" RECESSED LIGHTING FIXTURE
- 4'-0" DIA. LED RING FIXTURE, PENDANT-MOUNTED TO ROOF DECK. REFER TO ELECTRICAL ON AES-E-001 FOR MORE INFORMATION.
- 4'-0" DIA. EMERGENCY LED RING FIXTURE, PENDANT-MOUNTED TO ROOF DECK. REFER TO ELECTRICAL ON AES-E-001 FOR MORE INFORMATION.
- NEW EXIT SIGN (WALL-MOUNTED)

CONSTRUCTION KEY NOTES

1. INSTALL NEW 2'-0" x 2'-0" ACOUSTICAL CEILING TILE SYSTEM.
2. INSTALL NEW SOFFIT CEILING SYSTEM.
3. INSTALL NEW ACOUSTICAL CURVED METAL CLOUD CEILING. SEE ELEVATIONS & INTERIOR FINISH LEGEND.
4. INSTALL NEW LIGHTING SYSTEMS. MOUNT TO CENTERLINE OF THE CEILING GRID. REFER TO ELECTRICAL DRAWINGS.

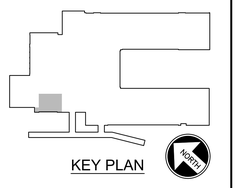
3 / A-401 — ELEMENTARY SCHOOL - ENLARGED CAFETERIA REFLECTED CEILING PLAN

SCALE: 1/4"=1'-0"

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405 Pennsylvania Avenue, Apalachin, NY 13827

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DRAWING TITLE:

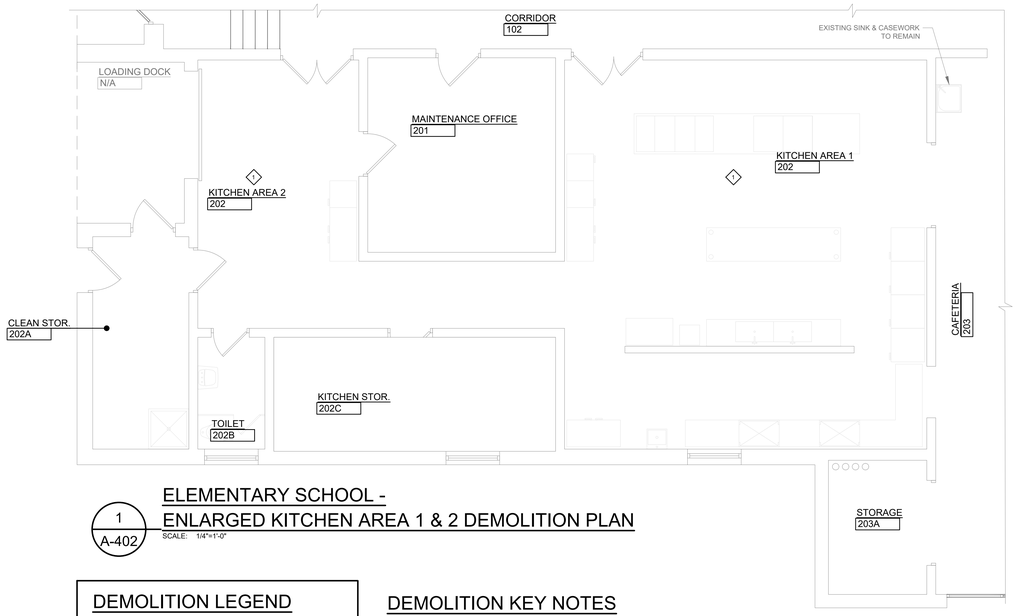
ENLARGED CAFETERIA - DEMOLITION PLAN, RENOVATION PLAN & RCP

DRAWN BY:	CHECKED BY:
A.G. / T.M.	R.S. / C.R.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING: AES

DRAWING NO: A-401

CAD FILE: 4240-AES-A-401.DWG PLOT DATE: 4/10/2026



* REFER TO DRAWING AES-A-401 FOR CONTINUATION OF WORK

1 / A-402

ELEMENTARY SCHOOL - ENLARGED KITCHEN AREA 1 & 2 DEMOLITION PLAN

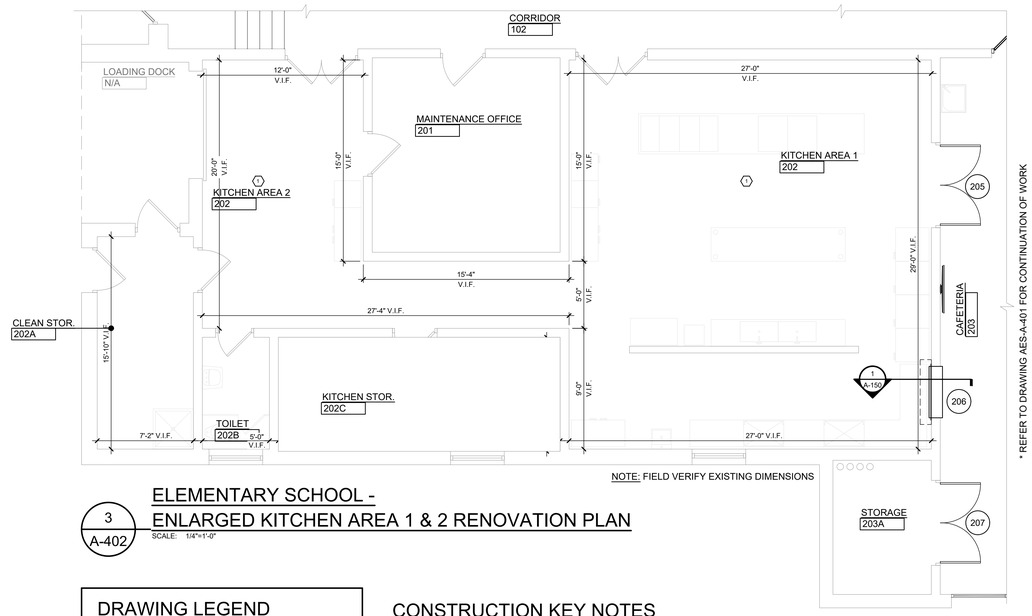
SCALE: 1/4"=1'-0"

DEMOLITION LEGEND

- DEMOLITION KEY NOTE INDICATOR
- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED.

DEMOLITION KEY NOTES

1. KITCHEN AREAS 1 & 2 ARE ONLY NEW CEILING WORK; REMOVE AND STORE ANY EXISTING EQUIPMENT THAT WILL INTERFERE WITH NEW CEILING WORK. REFER TO MECH. & ELEC. DRAWINGS FOR MORE INFORMATION.



* REFER TO DRAWING AES-A-401 FOR CONTINUATION OF WORK

NOTE: FIELD VERIFY EXISTING DIMENSIONS

3 / A-402

ELEMENTARY SCHOOL - ENLARGED KITCHEN AREA 1 & 2 RENOVATION PLAN

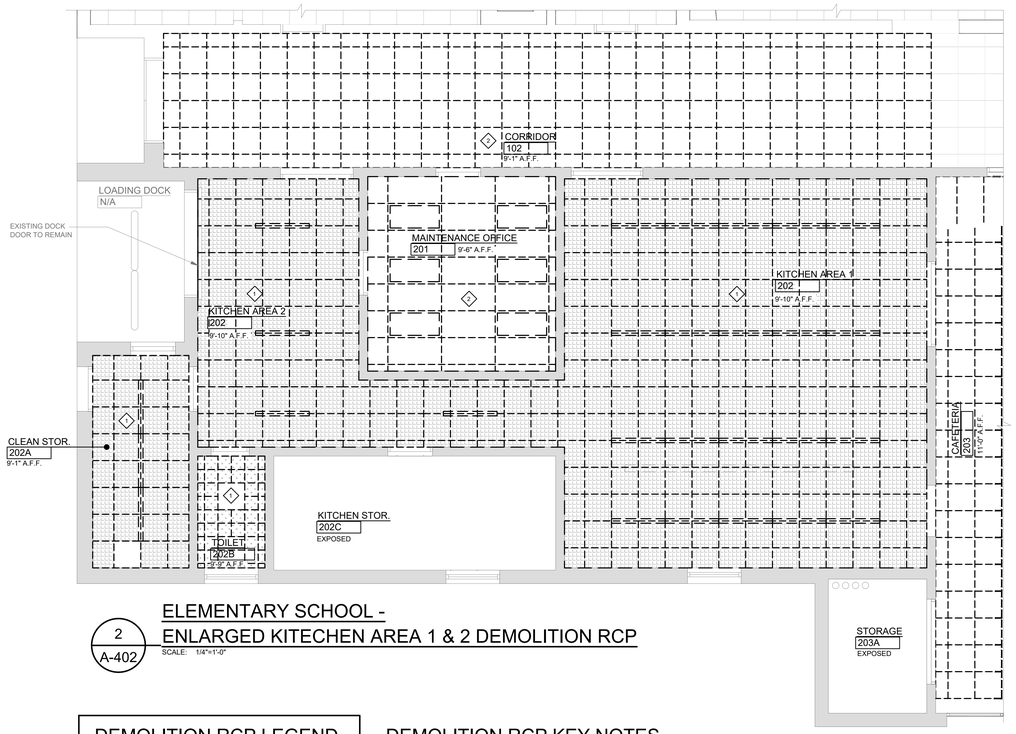
SCALE: 1/4"=1'-0"

DRAWING LEGEND

- CONSTRUCTION KEY NOTE INDICATOR
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 100 — INDICATES DOOR NUMBER. SEE DOOR SCHEDULE ON AES-A-150.
- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING DOOR TO REMAIN
- NEW DOOR WITH DOOR NUMBER

CONSTRUCTION KEY NOTES

1. KITCHEN AREAS 1 & 2 ARE ONLY NEW CEILING WORK; PLACE BACK AND RE-INSTALL ANY EXISTING EQUIPMENT THAT WAS REMOVED AND STORED FOR THE NEW CEILING WORK. REFER TO MECH. & ELEC. DRAWINGS FOR MORE INFORMATION.



* REFER TO DRAWING AES-A-401 FOR CONTINUATION OF WORK

2 / A-402

ELEMENTARY SCHOOL - ENLARGED KITECHEN AREA 1 & 2 DEMOLITION RCP

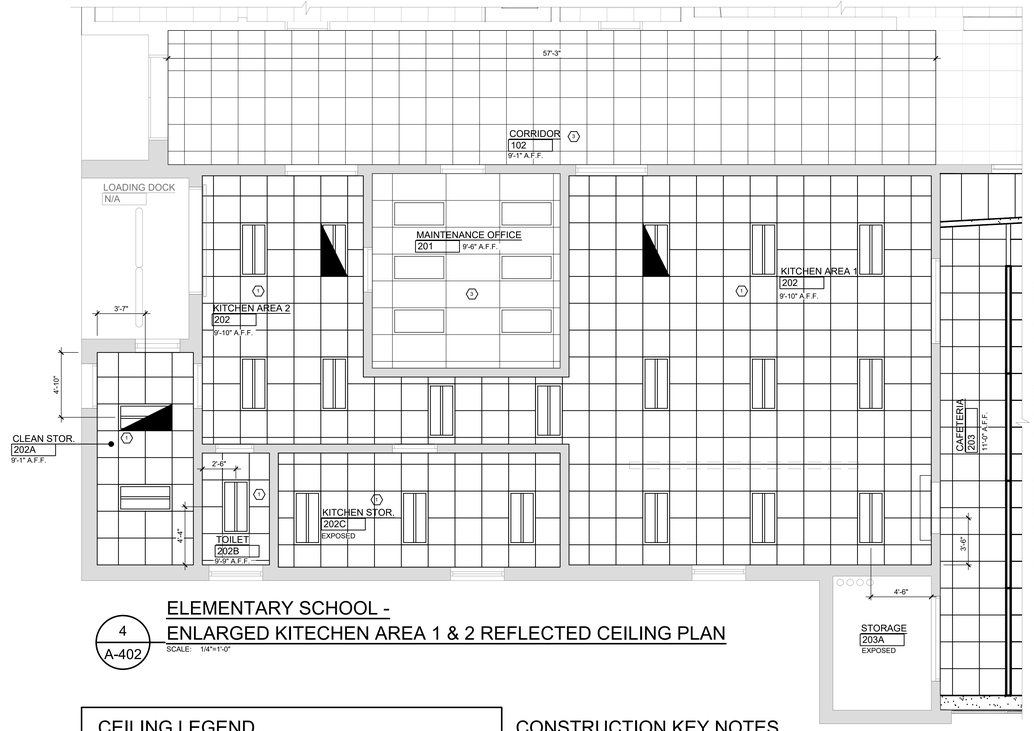
SCALE: 1/4"=1'-0"

DEMOLITION RCP LEGEND

- ROOM NAME / NO. / X'-X" — INDICATES ROOM NAME, ROOM NUMBER AND CEILING HEIGHT
- RCP KEY NOTE INDICATOR
- EXISTING 2'-0" x 4'-0" ACOUSTICAL CEILING TILE CONSTRUCTION TO REMAIN
- EXISTING 2'-0" x 2'-0" OR 2'-0" x 4'-0" ACOUSTICAL CEILING TILE TO BE REMOVED AND STORED
- 2'-0" x 2'-0" METAL CEILING TILE TO BE DEMOLISHED
- 1'-0" x 1'-0" ACOUSTICAL SPLINE CEILING TILE CONSTRUCTION TO BE DEMOLISHED

DEMOLITION RCP KEY NOTES

1. DEMOLISH EXISTING CEILING IN ITS ENTIRETY, INCLUDING WALL ANGLES, SUSPENSION SYSTEM, ALL LIGHTING, AND DIFFUSERS. COORDINATE WITH MECHANICAL AND ELECTRICAL DEMOLITION.
2. REMOVE AND STORE EXISTING ACOUSTICAL CEILING TILE AND GRID AS REQUIRED WHERE MECHANICAL WORK OCCURS. COORDINATED WITH MECHANICAL AND ELECTRICAL DRAWINGS.



* REFER TO DRAWING AES-A-401 FOR CONTINUATION OF WORK

4 / A-402

ELEMENTARY SCHOOL - ENLARGED KITECHEN AREA 1 & 2 REFLECTED CEILING PLAN

SCALE: 1/4"=1'-0"

CEILING LEGEND

- ROOM NAME / NO. / X'-X" — INDICATES ROOM NAME, ROOM NUMBER AND CEILING HEIGHT
- RCP KEY NOTE INDICATOR
- EXISTING 2'-0" x 2'-0" OR 2'-0" x 4'-0" ACOUSTICAL CEILING TILE CONSTRUCTION TO REMAIN
- RE-INSTALLED 2'-0" x 2'-0" OR 2'-0" x 4'-0" ACOUSTICAL CEILING TILE WHERE MECHANICAL WORK OCCURED
- NEW 2'-0" x 2'-0" KITCHEN ACOUSTICAL CEILING TILE
- LIGHT FIXTURES. COORDINATE WITH ELECTRICAL DRAWINGS.
- EMERGENCY LIGHT FIXTURES. COORDINATE WITH ELECTRICAL DRAWINGS.

CONSTRUCTION KEY NOTES

1. INSTALL NEW KITCHEN ACOUSTICAL CEILING TILE AND LIGHTING. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS .
2. INSTALL NEW BATHROOM SPLINE CEILING AND LIGHTING. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
3. RE-INSTALL ANY ACOUSTIC CEILING PANELS WHERE ANY MECHANICAL WORK HAD OCCURRED. REPLACE ANY DAMAGED TILES WITH NEW TILES. MATCH EXISTING CEILING CONDITIONS.

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KEY PLAN

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405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

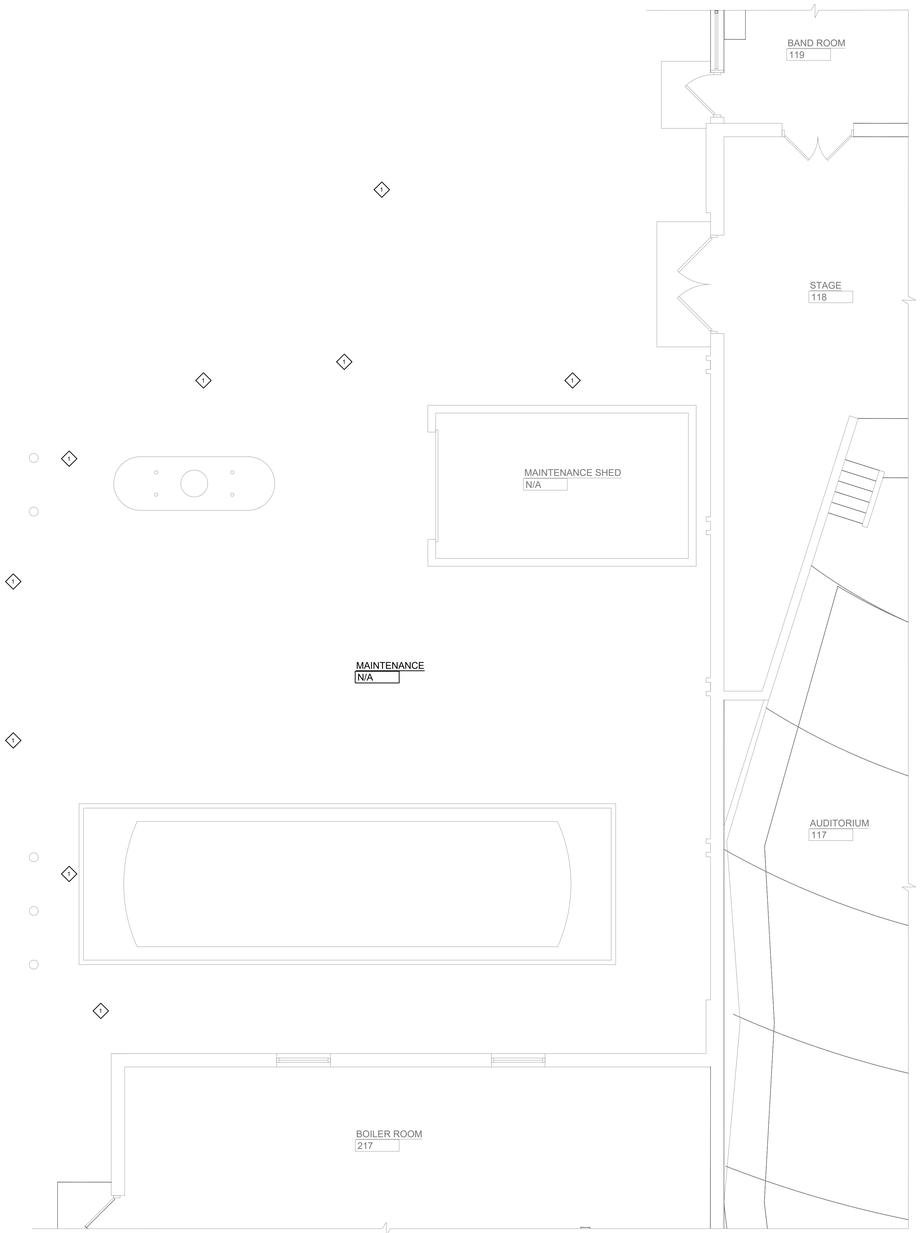
ENLARGED KITCHEN AREAS 1&2 DEMOLITION PLAN, RENOVATION PLAN & RCP

DRAWN BY:	CHECKED BY:
A.G. / T.M.	R.S. / C.R.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING: AES

DRAWING NO: A-402

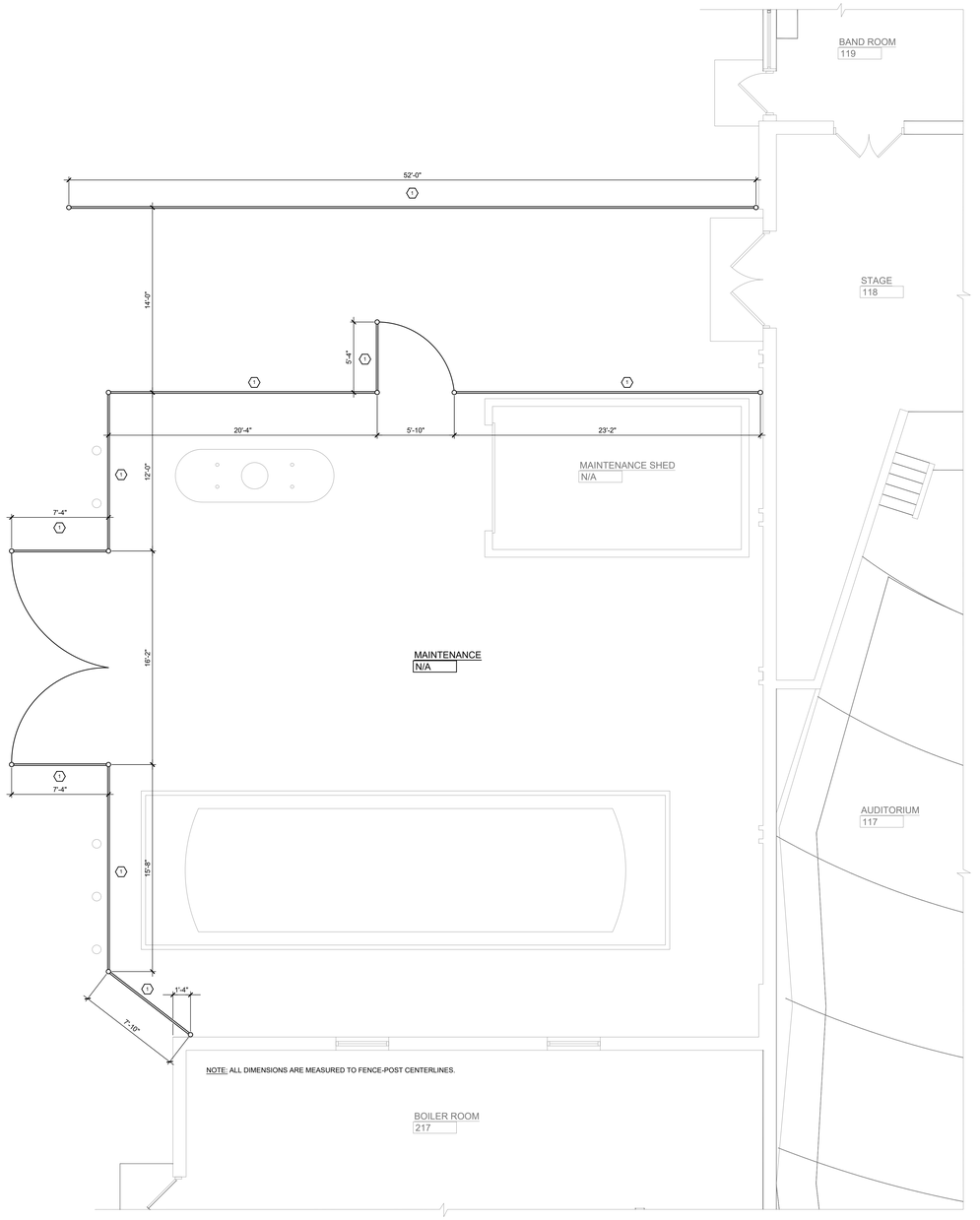
CAD FILE: 4245-AES-A-402.DWG PLOT DATE: 4/10/2026



1 A-403

ELEMENTARY SCHOOL - FENCE DEMOLITION PLAN

SCALE: 1/4"=1'-0"



NOTE: ALL DIMENSIONS ARE MEASURED TO FENCE-POST CENTERLINES.

2 A-403

ELEMENTARY SCHOOL - FENCE RENOVATION PLAN

SCALE: 1/4"=1'-0"

PHOTO #1: DEMO FENCE



DEMOLITION LEGEND

- 1 — DEMOLITION KEY NOTE INDICATOR
- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING FENCE CONSTRUCTION TO BE DEMOLISHED IN ITS ENTIRETY
- EXISTING DOOR TO REMAIN

DEMOLITION KEY NOTES

1. DEMOLISH EXISTING CHAIN LINK FENCE AND GATES, INCLUDING ALL POSTS, CONCRETE FOOTINGS, AND GATES.

PHOTO #2: TO MATCH EXISTING



DRAWING LEGEND

- X — CONSTRUCTION KEY NOTE INDICATOR
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW FENCE CONSTRUCTION
- NEW GATE CONSTRUCTION
- EXISTING DOOR TO REMAIN

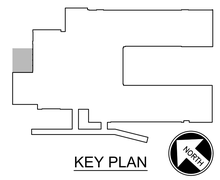
CONSTRUCTION KEY NOTES

1. INSTALL NEW CHAIN-LINK FENCE, GATES, AND CONCRETE FOOTINGS TO MATCH EXISTING FENCE FROM PHOTO #2. SEE SPECIFICATIONS. HEIGHT IS TO BE 8'-0".

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BID Documents
April 10, 2026



KEY PLAN

AES SED #60-06-01-06-0-008-018

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

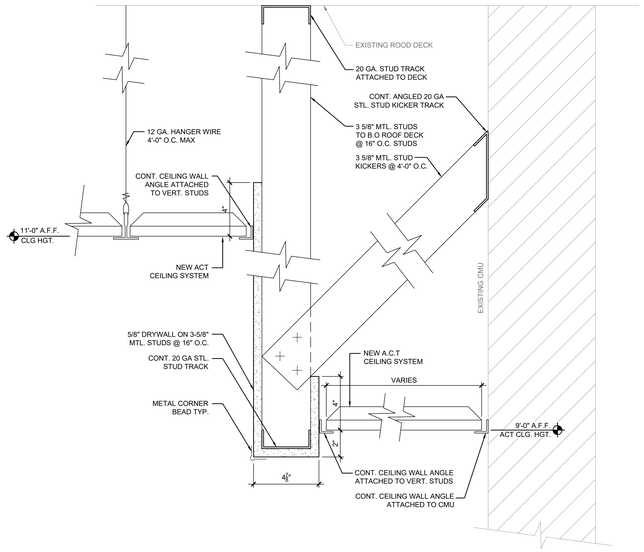
ENLARGED FENCE - DEMOLITION PLAN & RENOVATION PLAN

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A.G. / T.M.	R.S. / C.R.
DATE:	PROJECT NO:
04/10/2026	2024-240P

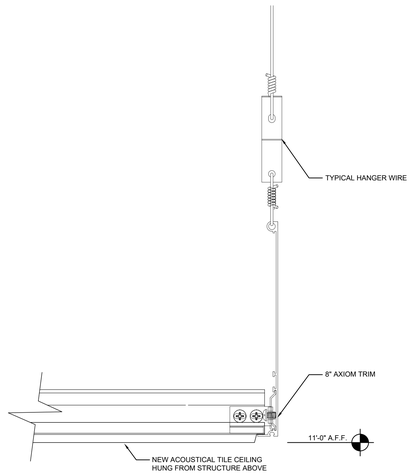
BUILDING: AES

DRAWING NO: A-403

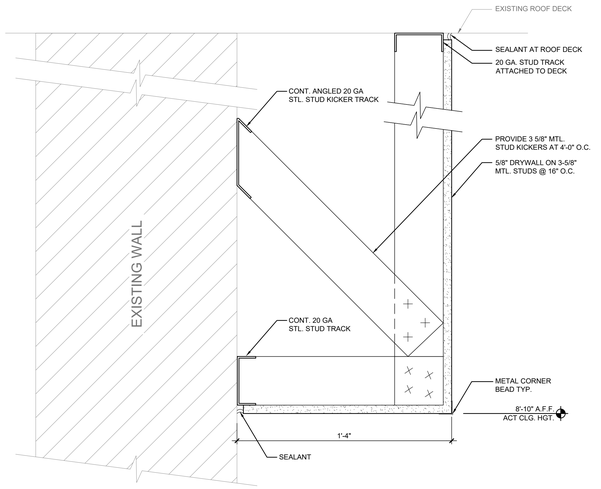
CAD FILE: 4245-AES-A-403.DWG PLOT DATE: 4/10/2026



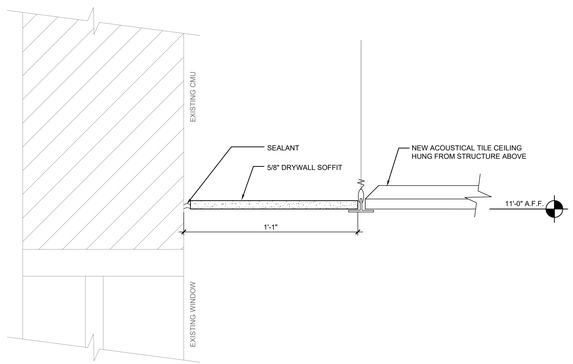
1 A-500 **BULKHEAD DETAIL**
SCALE: 3"=1'-0"



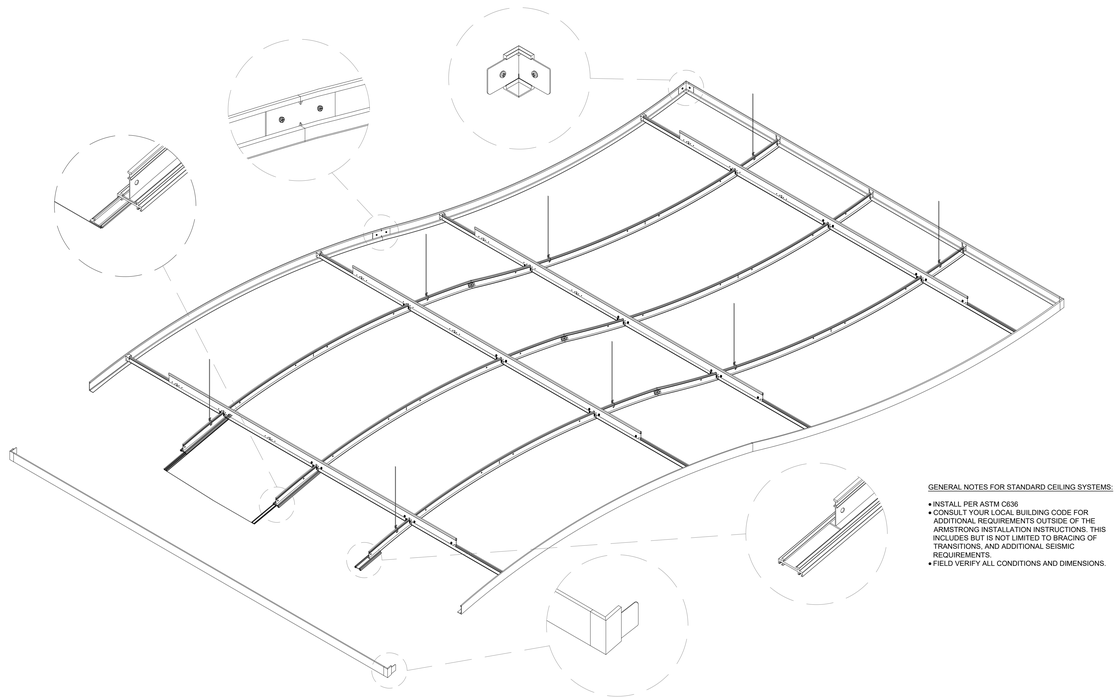
2 A-500 **AXIOM DETAIL**
SCALE: 6"=1'-0"



3 A-500 **SOFFIT DETAIL**
SCALE: 3"=1'-0"



1 A-500 **BULKHEAD DETAIL**
SCALE: 3"=1'-0"



5 A-500 **SERPENTINA SEMI-CONCEALED CEILING SYSTEM DETAIL**
SCALE: 1"=1'-0"

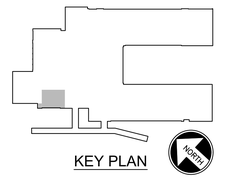
GENERAL NOTES FOR STANDARD CEILING SYSTEMS:

- INSTALL PER ASTM C636
- CONSULT YOUR LOCAL BUILDING CODE FOR ADDITIONAL REQUIREMENTS OUTSIDE OF THE ARMSTRONG INSTALLATION INSTRUCTIONS. THIS INCLUDES BUT IS NOT LIMITED TO BRACING OF TRANSITIONS, AND ADDITIONAL SEISMIC REQUIREMENTS.
- FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.

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April 10, 2026



KEY PLAN

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

DETAILS - CAFETERIA

DRAWN BY:	CHECKED BY:
T.M.	R.S.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
A-500

CAD FILE: 4240-AES-A-500.DWG PLOT DATE: 4/10/2026

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BID Submission
April 10, 2026

1 ELEMENTARY SCHOOL - TYPICAL SIGNAGE DETAILS

N.T.S.

INTERIOR SIGNAGE NOTES:

SCALE: N.T.S.

CODE: ADA COMPLIANT SIGNAGE.
MANUF: ASI SIGNAGE INNOVATIONS (Basis of Design)
STYLE: "INFORM SERIES" w/ BACKPLATE DOUBLE LAYER
SIZES: 12" x 8" w/ TACTILE LETTERING & BRAILLE
6" x 8" PICTOGRAMS w/ COPY & BRAILLE
COLORS: BACKGROUND : To Be Selected
TEXT : To Be Selected

NOTE: MOUNT ON LATCH SIDE OF DOOR AT 60" A.F.F. MAX. TO BOTTOM OF THE HIGHEST TACTILE CHARACTER AND 9" MIN. FROM DOOR FRAME EDGE TO THE CENTER OF TACTILE CHARACTERS FOR MINIMUM 18"x18" CLEAR FLOOR SPACE CLEAR OF DOOR SWING BETWEEN CLOSED AND 45 DEGREE POSITION. COMPLY WITH CURRENT ADA / ANSI REQUIREMENTS.

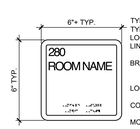
(TYPICAL)

TYPICAL SIGNAGE NOTES:

1. ALL SIGNAGE (UNLESS OTHERWISE NOTED) IS TO BE ADA COMPLIANT FOR CONTENT, STYLE, & MOUNTING.
2. ALL INTERIOR SIGNAGE IS TO HAVE A CLASS A SURFACE FLAME SPREAD RATING.
3. ALL SIGNAGE SHOWN ABOVE IS SHOWN FOR REQUIRED CONTENT. ALL SIGNAGE SHALL MATCH OVERALL BUILDING SIGNAGE STYLE & BE PROVIDED IN ONE SIGNAGE PACKAGE BY ONE CONTRACTOR.
4. TEXT & SYMBOL COLOR MUST BE HIGH CONTRAST BACKGROUND COLORS AS PER ADA GUIDELINES.
5. ALL INTERIOR SIGNAGE SHALL NOT BE EASILY REMOVABLE FROM WALL & MUST BE CLEANABLE.
6. PROVIDE SHOP DRAWINGS OF ALL SIGNAGE FOR ARCHITECTS REVIEW.
7. SEE FLOOR PLAN FOR NAME OF EACH ROOM. COORDINATE NAMES w/ OWNER.

INTERIOR SIGNAGE LEGEND

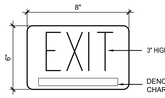
3"=1'-0"
TYP. AT ANY NEW WORK FOR ROOMS, DOORS, ETC.
SIGNAGE TYPE TO MATCH EXISTING.



TYPE STYLE - HELVETICA REGULAR
TYPE SIZE - 5/8" UPPERCASE
LOCATION - TOP 1 3/16", C
LINE SPACING - 1/4"
BRAILLE - 1 /4" GRADE II, DOMED BRAILLE
LOCATION - 1 /4", CB
CORNERS - 1/ 2" RADIUS
MOUNTING - VINYL TAPE AND SILASTIC

ADA EXIT SIGN

SCALE: N.T.S.



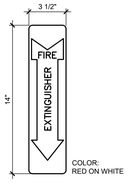
CODE: 2006 ICC - 1011.3 / ANSI A117.1 - 2003
SIZE: 8" x 6" w/ COPY AND BRAILLE
COLOR: BACKGROUND COLOR: BLUE
LETTERING COLOR: WHITE
ALL LETTERS ARE SOLID, BOLD

TYPICAL TACTILE 'EXIT' SIGN AT DOORS TO STAIRS, EXIT PASSAGE WAYS AND EXIT DISCHARGE

★ PROVIDE INTEGRAL EXIT/STAIR SIGN W/ TACTILE COPY/BRAILLE

FIRE EXTINGUISHER SIGN

SCALE: N.T.S.



COLOR: RED ON WHITE

ALL FIRE EXTINGUISHER LOCATIONS (TYP.)

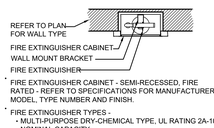
2 ELEMENTARY SCHOOL - INTERIOR SIGNAGE SCHEDULE

A E S - I N T E R I O R S I G N A G E S C H E D U L E

	DOOR	SIGNAGE INFORMATION				SIGN FINISHES				REMARKS
	DOOR NO.	SIGN TYPE	ROOM NO.	ROOM NAME	GLASS BACKER	BACKGROUND COLOR	GLOSS LEVEL	FONT TYPE	FONT COLOR	ALL SIGNS SHALL HAVE THE FOLLOWING FINISHES / COLORS, TYPICAL, UNLESS OTHERWISE NOTED AT THIS SCHEDULE:
CAFETERIA	203	ROOM ID	203	CAFETERIA	●	41342SP "BRUSHED ALUM."	SATIN	TIMES NEW ROMAN	SOA202SP "NATURAL WHITE"	BACKGROUND: COLOR: 42115SP "BURGUNDY MAROON" FINISH: SATIN FONT: STYLE: TIMES NEW ROMAN COLOR: SOA202SP "NATURAL WHITE"
	204	ROOM ID	203	CAFETERIA						
	205	ROOM ID	205	KITCHEN						
	206	ROOM ID	-	DISH RETURN						
	207	ROOM ID	203A	STORAGE						
	208	EXIT								

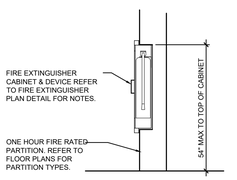
3 TYPICAL FIRE EXTINGUISHER DETAILS

SCALE: ~~3/4"=1'-0"~~ 1 1/2"=1'-0"



- FIRE EXTINGUISHER CABINET - SEMI-RECESSED, FIRE RATED - REFER TO SPECIFICATIONS FOR MANUFACTURER, MODEL, TYPE NUMBER AND FINISH.
- FIRE EXTINGUISHER TYPES -
  - MULTI-PURPOSE DRY-CHEMICAL TYPE, UL RATING 2A-10B:C, 5LB NOMINAL CAPACITY
  - CLASS K WET-CHEMICAL TYPE, UL RATING 2A:K, 1½ GAL. (6 LITERS) NOMINAL CAPACITY - AS REQUIRED BY CODE FOR KITCHENS ONLY.
- PROVIDE STANDARD BRACKET FOR MOUNTING OF FIRE EXTINGUISHER - REFER TO SPECIFICATIONS.
- TYPES, CAPACITY, WEIGHT, MOUNTING HEIGHTS, TRAVEL DISTANCES AND LOCATIONS OF ALL FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS ARE TO MEET ALL APPLICABLE CODES AND REQUIREMENTS.

TYPICAL PLAN DETAIL @ FIRE EXTINGUISHER CABINET



TYPICAL SECTION @ FIRE EXTINGUISHER CABINET



- INSTALL WALL MOUNT BRACKET FOR EXTINGUISHER
- MOUNT BRACKET SO TOP OF EXTINGUISHER IS AT THE CORRECT HEIGHT FOR THE WEIGHT OF THE FIRE EXTINGUISHER AS PER CODE REQUIREMENTS.
- USE PROPER ANCHORS TO SECURELY FASTEN BRACKET TO SUBSTRATE
- FIRE EXTINGUISHER TYPES -
  - MULTI-PURPOSE DRY-CHEMICAL TYPE, UL RATING 2A-10B:C, 5LB NOMINAL CAPACITY
  - CLASS K WET-CHEMICAL TYPE, UL RATING 2A:K, 1½ GAL. (6 LITERS) NOMINAL CAPACITY - AS REQUIRED BY CODE FOR KITCHENS ONLY.
- PROVIDE STANDARD BRACKET FOR MOUNTING OF FIRE EXTINGUISHER - REFER TO SPECIFICATIONS.
- FIRE EXTINGUISHER TYPES, QUANTITY, CAPACITY, WEIGHT, MOUNTING HEIGHTS, TRAVEL DISTANCES AND LOCATIONS OF ALL FIRE EXTINGUISHERS ARE TO MEET ALL APPLICABLE CODES AND REQUIREMENTS.

TYPICAL PLAN DETAIL @ WALL MOUNTED FIRE EXTINGUISHER

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405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

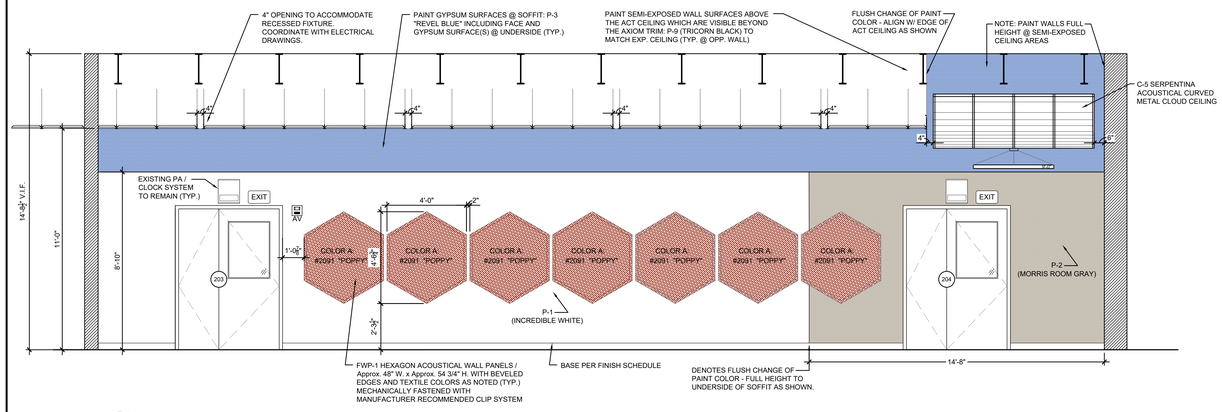
INTERIOR SIGNAGE SCHEDULE & DETAILS

DRAWN BY:	CHECKED BY:
A.G. / T.M.	R.S.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING: AES

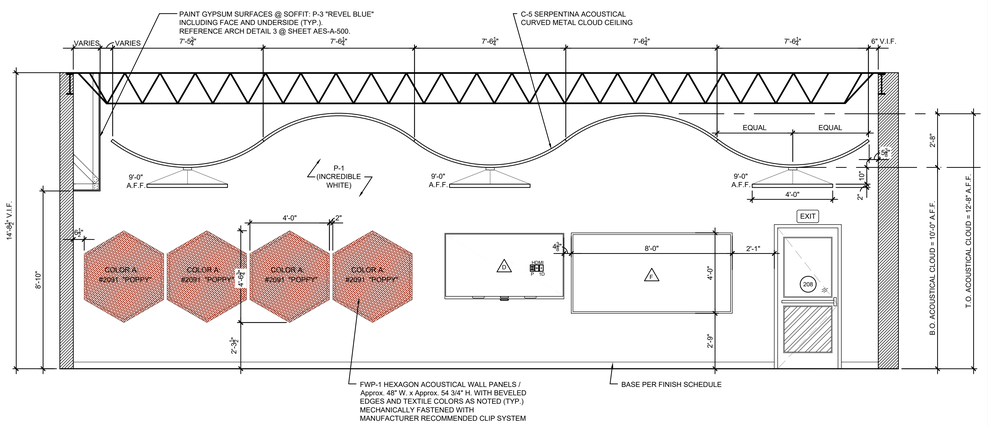
DRAWING NO: A-601

CAD FILE: 4240-AES-A-601.DWG PLOT DATE: 4/10/2026



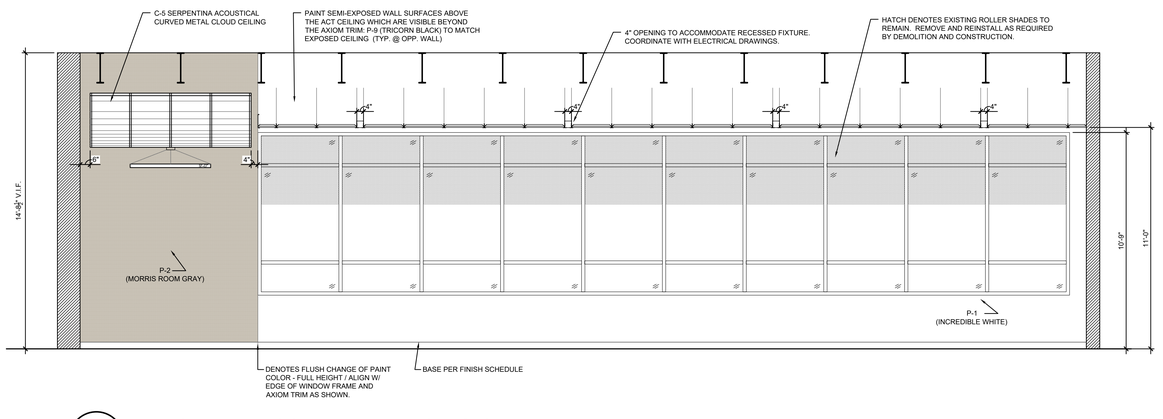
1 AES A-701 ILLUSTRATIVE NORTH ELEVATION @ CAFETERIA

SCALE: 3/8"=1'-0"



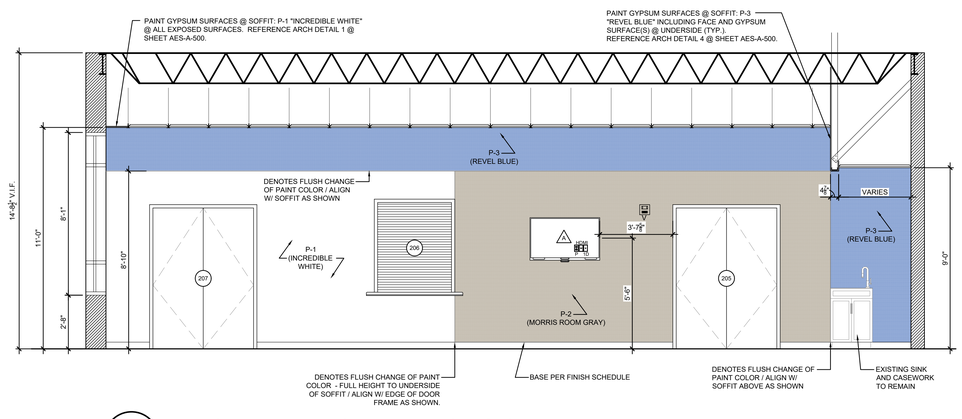
2 AES A-701 ILLUSTRATIVE EAST ELEVATION @ CAFETERIA

SCALE: 3/8"=1'-0"



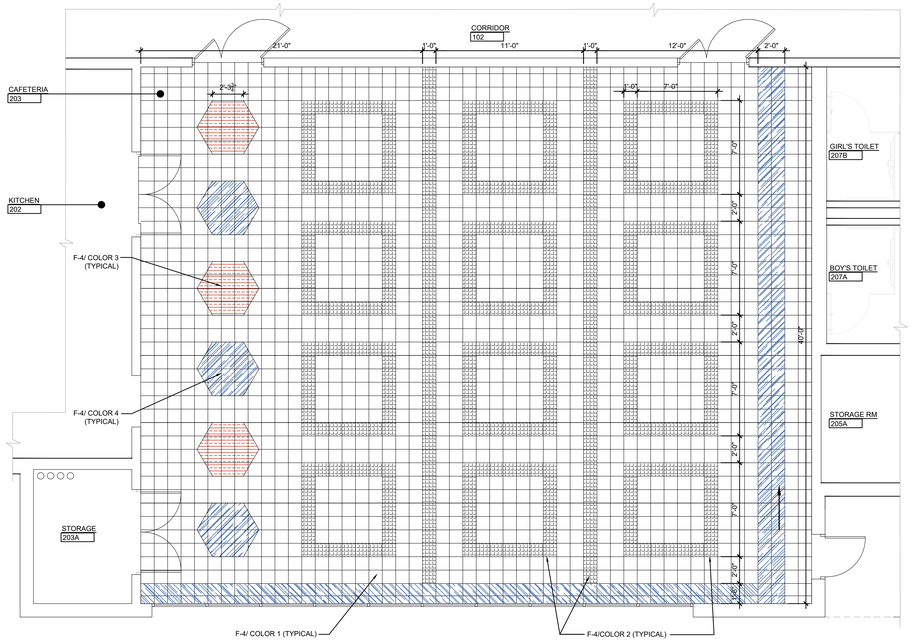
3 AES A-701 ILLUSTRATIVE SOUTH ELEVATION @ CAFETERIA

SCALE: 3/8"=1'-0"



4 AES A-701 ILLUSTRATIVE WEST ELEVATION @ CAFETERIA

SCALE: 3/8"=1'-0"



5 A-701 ELEMENTARY SCHOOL 1ST FLOOR - CAFETERIA FINISH FLOOR PLAN

SCALE: 1/4"=1'-0"

LUXURY VINYL TILE LEGEND

MANF: MANNINGTON
STYLE: (Colors 1 - 4) STRIDE
SIZE(S): 12" x 24"
12" x 12" (Special for this order)

F-4
- COLOR 1 : #C137 "WINTER FLEECE"
- COLOR 2: # C139 "LONDON FOG"
- COLOR 3: # C123 "POPPY RED"
- COLOR 4: # C128 "MIDNIGHT TWINKLE"

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REVISION NO:

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April 10, 2026

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405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

INTERIOR ELEVATIONS & FINISH FLOOR PLAN

DRAWN BY:	CHECKED BY:
T.M. / E.V.	C.R.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING: AES

DRAWING NO: A-701

CAD FILE: 4240-AES-A-701.DWG PLOT DATE: 4/10/2026

HVAC DUCTWORK AND PIPING SYMBOLS:

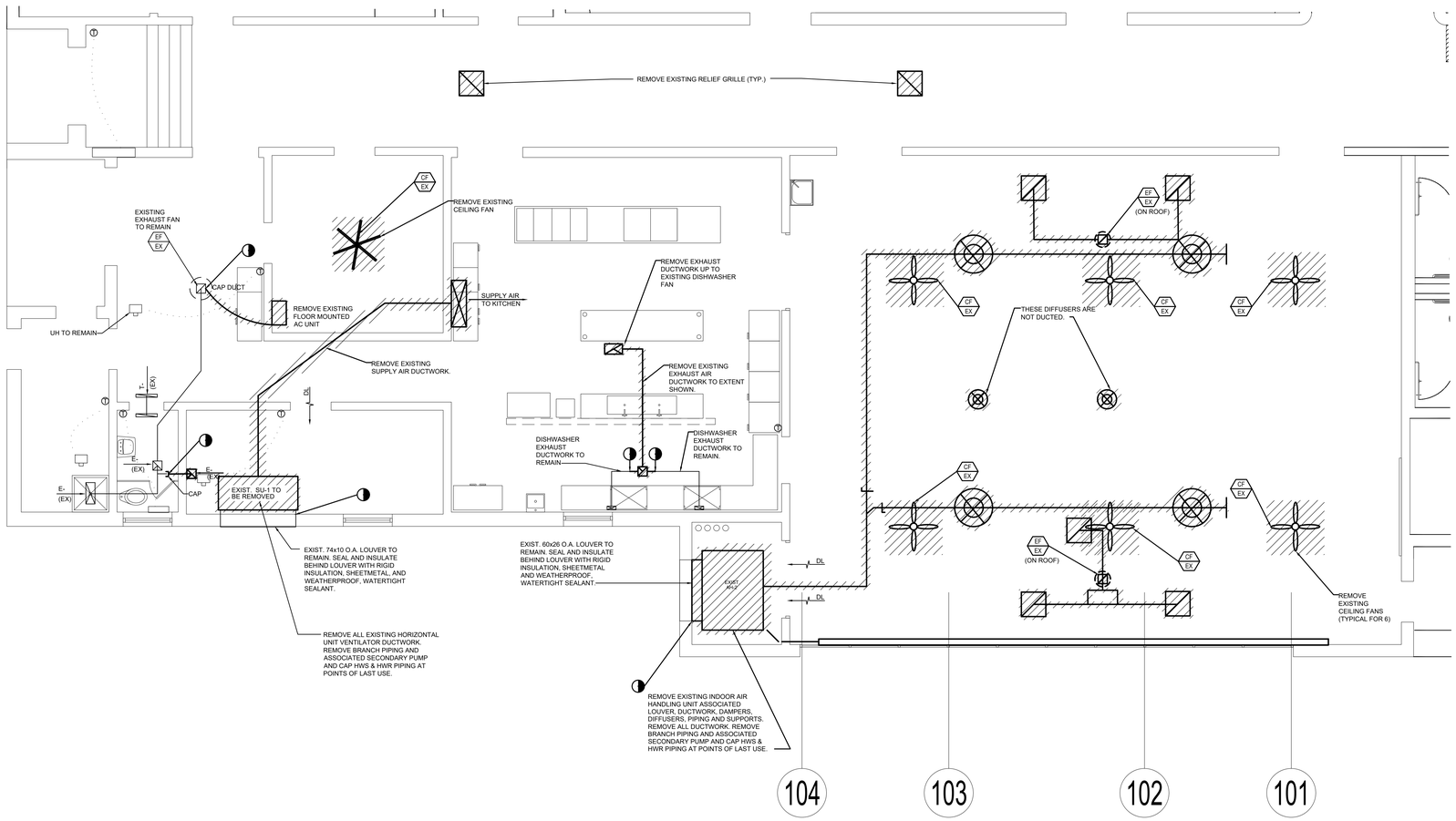
- THERMOSTAT
- POINT OF CONNECTION
- POINT OF DISCONNECTION
- FLEXIBLE/ RIGID ROUND DUCTWORK
- SUPPLY AIR DIFFUSER
- SUPPLY DUCT UP
- SUPPLY DUCT DOWN
- VOLUME DAMPER
- L — LIQUID LINE
- S — SUCTION LINE
- CWS — CHILLED WATER SUPPLY
- CWR — CHILLED WATER RETURN
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- CD — DRAIN LINE
- PITCH PIPE DOWN IN DIRECTION OF ARROW
- RETURN REGISTER OR GRILLE
- FIRE DAMPER
- VALVE ON RISE
- VALVE ON DROP
- BALL VALVE
- GATE (SHUT-OFF) VALVE
- 3-WAY VALVE
- COMBINATION BALANCING / SHUT-OFF VALVE
- UNION
- CONTROL VALVE TWO-WAY
- T — THERMOMETER AND WELL
- M — MANUAL AIR VENT
- "Y" STRAINER
- STRAINER W/GATE VALVE & HOSE CONNECTION
- RELIEF VALVE
- PIPE GUIDE
- DROP IN PIPE
- RISE IN PIPE
- PIPE REDUCER
- FLEXIBLE CONNECTOR
- PRESSURE & TEMPERATURE PLUG
- V — VENT LINE
- UV — UNIT VENTILATOR
- CU — CONDENSING UNIT
- RTU — ROOFTOP UNIT
- B — HYDRONIC BOILER
- ERU — ENERGY RECOVERY UNIT
- EF — EXHAUST FAN
- D — DAMPER
- FC — FAN COIL UNIT
- CH — AIR-COOLED CHILLER
- POU — PACKAGED DEHUMIDIFICATION UNIT

HVAC ABBREVIATIONS

ALUM	ALUMINUM
AFF	ABOVE FINISHED FLOOR
ATC	AUTOMATIC TEMPERATURE CONTROL
AVG	AVERAGE
BOD	BOTTOM OF DUCT
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CAP.	CAPACITY
CLG	CEILING
CENTR.	CENTRIFUGAL
CFM	CUBIC FEET PER MINUTE
COMPR	COMPRESSOR
C.O.	CLEANOUT
COND.	CONDENSATE
DR	DROP
DB	DRY BULB
DIA	DIAMETER
DWG	DRAWING
DX	DIRECT EXPANSION
EER	ENERGY EFFICIENCY RATIO
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
ELEC	ELECTRIC
EWB	ENTERING WET BULB TEMPERATURE
EA	EACH
EF	EXHAUST FAN
E.W.T.	ENTERING WATER TEMPERATURE
EXIST.	EXISTING
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
F.L.A.	FULL LOAD AMPS
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
FT2	SQUARE FEET
GALV.	GALVANIZED
G.C	GENERAL CONTRACTOR
GA	GAUGE
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
HC	HEATING COIL
HP	HORSE POWER
HR	HOUR
HZ	HERTZ
HVAC	HEATING,VENTILATING AND AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCHES
INSUL	INSULATION
KW	KILOWATT
LBS	POUNDS
LDB	LEAVING DRY BULB TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
LIN.FT.	LINEAR FEET
MCA	MINIMUM CIRCUIT AMPS
MBH	THOUSAND BTU
MBH	THOUSAND BTU
M.C.	MECHANICAL CONTRACTOR
MFA	MAXIMUM FUSE AMPS
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NO	NUMBER
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
OA	OUTSIDE AIR
PC	PUMPED CONDENSATE
PD.	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RAD.	RADIATION
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RH	RELATIVE HUMIDITY
R.V.	RELIEF VENT
SAD	SUPPLY AIR DIFFUSER
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SPEC	SPECIFICATION
TEMP	TEMPERATURE
TYP	TYPICAL
VAV	VARIABLE AIR VOLUME UNIT
VD	VOLUME DAMPER
VEL	VELOCITY
VENT	VENTILATION
VOL	VOLUME
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN

GENERAL NOTES:

1. THESE GENERAL NOTES SHALL APPLY TO ALL M SERIES DRAWINGS, IN COORDINATION WITH DIVISION 23 SECTIONS, AND FRONT END (DIVISION 0 AND 1) REQUIREMENTS. ALL WORK ASSOCIATED WITH THE M SERIES DRAWINGS SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID CONFLICTS.
2. ALL WORK SHALL BE PERFORMED IN COOPERATION WITH THE OWNER (AND/OR OWNER'S REPRESENTATIVE) AND THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CONSTRUCTION SCHEDULE ESTABLISHED BY THE OWNER AND ARCHITECT, AND SHALL IMMEDIATELY REPORT ANY DELAYS IN MATERIALS RECEIPT INCLUDING CIRCUMSTANCES CAUSING DELAYS.
3. CONTRACT DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND TO INDICATE THE GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EQUIPMENT, DUCTWORK, PIPING, AND ACCESSORIES. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL CONDITIONS, DIMENSIONS, AND LOCATIONS PRIOR TO BIDDING PROJECT. CHECK PROJECT DRAWINGS PRIOR TO INSTALLATION FOR INTERFERENCES WITH OTHER TRADES. SHOULD THE CONTRACTOR FIND SUCH INTERFERENCES, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH OTHERS. THE OWNER RESERVES THE RIGHT TO MAKE REASONABLE CHANGES PRIOR TO ROUGH-IN WITHOUT ADDED EXPENSE. DIMENSIONS INDICATED ARE SUBJECT TO VERIFICATION OF EXACT SITE CONDITIONS AT THE TIME OF INSTALLATION.
   - THE CONTRACTOR SHALL INSTALL ALL DUCTWORK, PIPING, EQUIPMENT, ETC. IN A WORKMAN LIKE MANNER WITH QUALIFIED CONTRACTORS.
4. ALL MECHANICAL WORK SHALL BE INSTALLED PER LOCAL MECHANICAL CODE, HEALTH CODE, FIRE CODE, ENERGY CONSERVATION CODE, AND BUILDING CODE. ALL WORK SHALL COMPLY TO ACCORDANCE OF LOCAL, STATE AND FEDERAL REGULATIONS AND OTHER AUTHORITIES HAVING JURISDICTION.
5. CONTRACTOR RESPONSIBLE FOR PAYING FOR ALL FEES ASSOCIATED WITH OBTAINING PERMITS, INSPECTIONS, ETC.
6. THE MECHANICAL CONTRACTOR SHALL BE LICENSED IN THE LOCAL JURISDICTION PRIOR TO BIDDING ON PROJECT. CONTRACTOR TO CONTACT CITY/TOWNSHIP TO VERIFY LICENSE TO ENSURE THEY ARE CURRENT.
7. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. ANY CONFLICTS WITH INSTALLATION AND MANUFACTURER RECOMMENDATIONS SHALL BE REPORTED TO ENGINEER.
8. CUTTING AND PATCHING - ALL NOTES BELOW HOLD THE COMMON CONDITION "UNLESS OTHERWISE NOTED".
   - FOR RENOVATIONS: THE CONTRACTOR REQUIRING CUTTING SHALL BE RESPONSIBLE FOR HIS/HER OWN WORK WHETHER DESCRIBED IN THE CONTRACT DOCUMENTS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CUTTING AND PATCHING REQUIREMENTS WITH OTHER TRADES.
   - FOR NEW CONSTRUCTION: ALL CUTTING AND PATCHING THROUGH ALL WALL, CEILING, ETC. SHALL BE PROVIDED BY MECHANICAL CONTRACTOR IN COORDINATION WITH THE GENERAL WORK. ALL PAINTING AND FINISHING SHALL BE DONE BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH GENERAL CONTRACTOR.
   - OPENINGS MADE POST-FINISH: IF AN OPENING IS REQUIRED IN A FINISHED SURFACE, AFTER COMPLETION, DUE TO LACK OF COORDINATION OR PROPER SCHEDULE MAINTENANCE, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED TO FINISH SPECIFIC MECHANICAL WORK AND RESTORE THE FINISHED SURFACE TO PREVIOUS CONDITION.
   - UNDERGROUND PIPING (NEW CONSTRUCTION): TRENCHING SHALL BE BY GENERAL CONTRACTOR. PIPE INSTALLATION WITH APPROPRIATE BEDDING MATERIAL SHALL BE BY THE MECHANICAL CONTRACTOR. BACKFILL ABOVE PIPE AND BEDDING SHALL BE BY THE GENERAL CONTRACTOR BASED ON REQUIREMENTS OF THE STRUCTURAL PLANS AND SPECIFICATIONS.
   - UNDERGROUND PIPING FINISHED FLOORS OTHER THAN CONCRETE: UNLESS OTHERWISE NOTED, TRENCHING, EXCAVATION, BACKFILLING, COMPACTION AND RESTORATION OF THE FLOORING SUBSTRATE SHALL BE PERFORMED BY THIS CONTRACTOR. FINAL FINISHED FLOOR SHALL BE BY OTHERS.
   - UNDERGROUND PIPING FOR FINISHED CONCRETE FLOORS: UNLESS OTHERWISE NOTES, TRENCHING, EXCAVATION, BACKFILLING, COMPACTION, AND RESTORATION OF FINISHED FLOORING SYSTEM SHALL BE PERFORMED BY THIS CONTRACTOR.
   - EQUIPMENT OPENINGS: OPENINGS REQUIRED FOR REMOVAL OF EXISTING EQUIPMENT OR INSTALLATION OF NEW EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE CUT AND PATCHED BY THIS CONTRACTOR.
9. FURNISH AND INSTALL ALL NEW EQUIPMENT AND MATERIALS AS DESCRIBED HEREIN. ANY MATERIAL, OPERATION, METHOD, OR DEVICE MENTIONED, LISTED OR NOTED WITHIN THIS SPECIFICATION SHALL BE FURNISHED BY THIS CONTRACTOR UNLESS SPECIFICALLY MENTIONED AS BEING FURNISHED OR INSTALLED BY OTHERS.
10. ALL PIPING AND DUCT PENETRATING ALL FIRE-RATED WALLS, CEILINGS, FLOORS, ROOFS, ETC. SHALL BE FIRE STOPPED IN ACCORDANCE WITH DIVISION 7.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE COMPLETE AND OPERABLE SYSTEMS, INCLUDING OPERATIONAL PROPERTIES TO THE EXTENT NECESSARY TO LINK MULTIPLE COMPONENTS OF THE SYSTEMS TOGETHER AND TO INTERFACE WITH SYSTEMS PROVIDED BY OTHERS. THE MECHANICAL CONTRACTOR SHALL GUARANTEE ALL SYSTEMS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE OWNER WITH ALL NECESSARY OPERATION AND MAINTENANCE MANUALS, SHOP DRAWINGS, WIRING DIAGRAMS, AS-BUILT DRAWINGS, AND WARRANTY PAPERWORK UPON COMPLETION OF THE PROJECT.
12. THE CONTRACTOR SHALL COORDINATE WITH G.C. FOR LOCATIONS OF ACCESS PANELS PROVIDED BY G.C. IN NON-ACCESSIBLE CEILING AND WALLS FOR ALL VALVES, SHOCK ABSORBERS, VOLUME DAMPERS AND ALL OTHER ITEMS THAT REQUIRE ACCESS TO PROPERLY MAINTAIN OR SERVICE.
13. ALL PIPING PENETRATIONS THROUGH EXPOSED WALLS SHALL BE PROVIDED WITH CHROME ESCUTCHEONS AND SEAL TO WALL OR CEILING.
14. ALL NATURAL GAS PIPING SHALL BE INSTALL PER NEW YORK FUEL GAS CODE AND AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL PROVIDE SHUT OFF GAS VALVE FOR ALL EQUIPMENT UTILIZING GAS. CONTRACTOR SHALL PROVIDE 6" DIRT LEG (MINIMUM) FOR ALL EQUIPMENT UTILIZING GAS.
15. EQUIPMENT CONNECTIONS:
   - ALL EQUIPMENT SHALL BE PROVIDED WITH UNIONS AND SHUT-OFF VALVES WHETHER DETAILED OR NOT.
   - ALL MECHANICAL HYDRONIC OR REFRIGERANT EQUIPMENT SHALL BE PROVIDED WITH SHUT OFF VALVES.
   - THIS CONTRACTOR SHALL MAKE FINAL HYDRONIC AND REFRIGERANT CONNECTIONS TO PIPING/EQUIPMENT FURNISHED BY OTHERS, UNLESS OTHERWISE NOTED.
17. ALL PENETRATIONS THROUGH ROOFING MEMBRANE AND ROOF DECKING SHALL BE PERFORMED BY AN INSTALLER CERTIFIED BY THE ROOFING SYSTEM MANUFACTURER TO MAINTAIN ROOF SYSTEM WARRANTY.
18. FOR PROJECTS WITH APPROVED USE OF PVC AND CPVC PIPING, SUCH PIPING SHALL BE PROHIBITED IN THE FOLLOWING LOCATIONS.
   - AREAS OF ASSEMBLY.
   - RETURN AIR PLENUMS.
   - EXIT DISCHARGE CORRIDORS.
   - STAIRS.
19. RODENTPROOFING - IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN FLOORS CEILINGS, OR WALLS FOR THE PASSAGE OF DUCT OR PIPE, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED WITH APPROVED METAL COLLARS THAT ARE SECURELY FASTENED TO THE ADJOINING STRUCTURE.
20. STRUCTURAL SAFETY - IN THE PROCESS OF INSTALLING OR REPAIRING ANY PART OF A MECHANICAL SYSTEM, THE FINISHED FLOOR, WALLS, CEILINGS, TILE OR ANY OTHER PART OF THE BUILDING OR PREMISES THAT MUST BE CHANGED OR REPLACED SHALL REMAIN IN A STRUCTURALLY SAFE CONDITION IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE OF NEW YORK STATE.
21. PROTECTION OF DUCTS, PIPES AND MECHANICAL SYSTEM COMPONENTS - PIPING, DUCT AND OTHER SYSTEM COMPONENTS SHALL BE INSTALLED IN SUCH A MANNER SO AS TO PREVENT CORROSION, BREAKAGE, FREEZING, AND PHYSICAL DAMAGE BY OTHER BUILDING COMPONENTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE OF NEW YORK STATE.
22. EXISTING SITE UTILITIES - UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED, WITHIN THE PROJECT AREA ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM THE CONTRACTOR'S WORK. CONTRACTOR SHALL CONTACT DIG SAFELY NEW YORK (DSNY) - 800-962-7962 FOR STAKEOUT REQUESTS.
23. COORDINATE ALL EQUIPMENT & DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
24. COORDINATE ALL PENETRATIONS THROUGH EXTERIOR WALLS WITH ARCHITECTURAL DRAWINGS.
25. THE CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK. HE SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER FOR CORRECTION PRIOR TO BEGINNING ANY WORK. DISCOVERY OF ANY DISCREPANCIES AFTER WORK HAS COMMENCED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
26. ALL EQUIPMENT-HVAC CONTRACTOR MUST REVIEW THE EQUIPMENT SCHEDULES, SPECIFICATIONS, AND DRAWINGS IN ALL CONTRACT DOCUMENTS AND SUBSEQUENT SHOP DRAWINGS. ALL LABOR AND MATERIALS FOR A COMPLETE AND OPERABLE SYSTEM AS PART OF THE CONTRACT. FAILURE TO REVIEW DOES NOT RELIEVE THE CONTRACTOR OF FULFILLING CONTRACTUAL OBLIGATIONS.
27. REFER TO ARCHITECTURAL DRAWINGS AND SHOP DRAWINGS FOR FINAL CONNECTIONS AND EXACT LOCATIONS FOR ALL WORK REQUIRED FOR EQUIPMENT NOT FURNISHED UNDER THIS CONTRACT.
28. COORDINATE INSTALLATION OF NEW WORK WITH ARCHITECTURAL, STRUCTURAL, PLUMBING, POWER AND LIGHTING PLANS. CONTRACTOR SHALL TAKE ALL INTERFERENCE INTO CONSIDERATION. PROVIDE ALL NECESSARY OFFSETS OR TRANSITIONS WITH EQUIVALENT AREAS TO MATCH DUCT SIZES AS INDICATED ON DRAWINGS.
29. DO NOT INSTALL ANY MECHANICAL WORK ABOVE ELECTRICAL PANELS.
30. DO NOT INSTALL ANY MECHANICAL WORK ABOVE OR THROUGH ELEVATOR EQUIPMENT ROOM UNLESS SPECIFICALLY SERVING EQUIPMENT ROOM.
31. FOR ALL BRANCH DUCT CONNECTIONS TO MAIN TRUNK, PROVIDE 45° TRANSITION FITTING OR CONICAL TAP FOR ROUND DUCT. BUTT FITTINGS ARE NOT PERMITTED. PROVIDE MANUAL VOLUME DAMPER WITH LOCKING QUADRANT AN ALL BRANCH RUNOUTS TO GRILLES AND DIFFUSERS.
32. PROVIDE TURNING VANES IN ALL MITERED ELBOWS OR PROVIDE ELBOWS WITH CENTERLINE RADIUS EQUAL TO 1.5 TIMES DUCT WIDTH.
33. INSTALL ALL FIRE DAMPERS AND CEILING RADIATION DAMPERS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, PROVIDE UL FIRE DAMPERS WITH BLADES OUT OF AIR STREAM AND ACCESS DOORS. FIRE DAMPERS IN TRANSFER DUCTS ONLY MAY HAVE BLADES IN AIR STREAM.
34. SLEEVE AND SEAL ALL PIPE OR DUCT PENETRATIONS OF WALL AND FLOORS. PACK VOID BETWEEN PIPE OR DUCT AND SLEEVE WITH INSULATION IN NON-RATED WALLS AND FLOORS. PACK VOID BETWEEN PIPE OR DUCT AND SLEEVE WITH INSULATION IN FIRE-RATED WALLS AND FLOORS, APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATION, MAINTAINING INTEGRITY AND RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR AND BE GROUTED INTO PLACE AND WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED AND SEALED WEATHER TIGHT.
35. SHUTDOWN OF SERVICES SHALL BE COORDINATED AND SCHEDULED WITH THE OWNER.
36. THE HVAC CONTRACTOR SHALL DISCONNECT AND CAP ALL SUPPLY, RETURN, AND EXHAUST AIR OUTLETS THAT ARE STILL ACTIVE IN THE PROJECT AREA DURING CONSTRUCTION.
37. THE HVAC CONTRACTOR SHALL REFER TO THE PHASING PLAN TO DETERMINE THE EXTENT OF WORK AND TEMPORARY SYSTEM CONNECTIONS NECESSARY FOR EACH PHASE.
38. ALL DUCT AND UNIT MOUNTED SMOKE DETECTORS FOR MECHANICAL EQUIPMENT AND DAMPERS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, WIRED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR, WITH UNIT SHUTDOWN CONTROL WIRING BY THE MECHANICAL CONTRACTOR.
39. HVAC CONTRACTOR SHALL PROVIDE ALL TRANSFORMERS AS REQUIRED FOR DUCT-MOUNTED DAMPER ACTUATORS OR THE DDC CONTROLS SYSTEM.
40. ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER SO THAT DISRUPTION OF AREAS INVOLVED IS KEPT TO A MINIMUM. ANY ACCIDENTAL INTERRUPTIONS TO SERVICES SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR WITH OUT ANY ADDITIONAL COST TO THE OWNER.
41. PRIOR TO SUBMITTING BIDS AND DURING CONSTRUCTION, THE CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES AND COORDINATE THE INSTALLATION WITH ALL TRADES AND EXISTING CONDITIONS. COORDINATION OF WORK IF NECESSARY SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
42. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL OFFSETS, BENDS, ACCESS PANELS AND SIMILAR PARTS WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING HIS WORK AND PROVIDE ALL FITTINGS, ACCESS PANELS, AND SIMILAR ACCESSORIES THAT MAYBE REQUIRED TO PROVIDE A COMPLETE AND OPERATING INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.
43. PROVIDE ALL DAMPERS, SHEAVES, AND BELTS AS REQUIRED FOR BALANCING.
44. THE HVAC CONTRACTOR SHALL CENTER AND/OR ALIGN REGISTERS, DIFFUSERS, AND EQUIPMENT WITH ADJACENT ARCHITECTURAL FEATURES.
45. INSTALL FIRE DAMPERS AS REQUIRED PER NFPA 101 AND NFPA 90A.
46. ALL HVAC INSTALLATIONS SHALL COMPLY WITH NFPA 101.
47. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
48. PROVIDE INTERNAL VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT, PIPING AND DUCTWORK AS SPECIFIED TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
49. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
50. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.
51. EXTERIOR LOUVERS ARE INDICATED IN THE MECHANICAL SCHEDULES. LOUVER SIZES, LOCATIONS, AND DETAILS SHALL BE COORDINATED WITH GENERAL CONTRACTOR. LOUVER SIZES, LOCATIONS, MOUNTING, AND DETAILS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED.
52. ANY FABRICATION AND/OR INSTALLATION WHICH HAS NOT BEEN PROPERLY COORDINATED WITH APPROVED EQUIPMENT MANUFACTURER AND MUST BE REPAIRED, RELOCATED, ALTERED, REPLACED, RE-INSTALLED OR MODIFIED IN ANY MANNER, WILL BE DONE TO THE SATISFACTION OF THE OWNER, AT NO ADDITIONAL COST TO THE OWNER OR DESIGN PROFESSIONAL.
53. THESE DRAWINGS REFLECT INFORMATION ON EXISTING BUILDING SERVICES GATHERED BY LIMITED FIELD INVESTIGATION AND PREVIOUS CONSTRUCTION DRAWINGS (NOT AS-BUILT DRAWINGS). THE EXACT LOCATION, ARRANGEMENT, AND SIZES OF EXISTING DEVICES AND EQUIPMENT MAY BE DIFFERENT FROM THAT SHOWN ON THESE DRAWINGS. ALL BIDDERS ARE REQUIRED TO INVESTIGATE EXISTING BUILDING CONDITIONS (AND UNFORESEEN CONDITIONS) PRIOR TO SUBMITTING THEIR BIDS AND PROVIDE ALL REQUIRED FIELD AND SITE MEASUREMENTS PRIOR TO ORDERING ANY NEW COMPONENTS, DEVICES, CONTROLS, DUCTWORK/PIPING, OR EQUIPMENT.
54. THIS CONTRACTOR IS RESPONSIBLE FOR THE CUTTING AND PATCHING OF ALL OPENINGS RELATED TO HIS WORK. PATCHES SHALL MATCH SURROUNDING WALL SURFACES AND SHALL BE SEALED AND FIRESTOPPED AS REQUIRED.
55. CEILINGS THAT NEED TO BE TEMPORARILY REMOVED TO ALLOW FOR THE INSTALLATION OF DUCTWORK, PIPING OR EQUIPMENT, AND ARE NOT SCHEDULED TO BE REMOVED ON THE ARCHITECTURAL DRAWINGS, SHALL BE REMOVED AND REPLACE BY THIS CONTRACTOR. COORDINATE THE REMOVAL AND THE REPLACEMENT WITH THE ELECTRICAL CONTRACTOR AND THE FIRE PROTECTION CONTRACTOR.
56. MECHANICAL CONTRACTOR SHALL REPLACE (IN-KIND) ALL CEILING TILES AND CEILING GRID SEGMENTS THAT GET DAMAGED DURING DEMOLITION OR CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
57. M.C. SHALL PROVIDE COORDINATION SHOP DRAWINGS OF HVAC DUCTWORK AND PIPING COORDINATED WITH LIGHTING, PLUMBING, AND FIRE PROTECTION. FIELD VERIFY ALL DIMENSIONS AND UNFORESEEN CONDITIONS WITH AT LEAST 1 SITE SURVEY.
58. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
59. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
60. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
61. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC. SHOWN ON THE OTHER CONTRACT DOCUMENT DRAWINGS.
62. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
63. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
64. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
65. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENT BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
66. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
67. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
68. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.
69. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACT PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
70. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
71. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE RESPECTIVE CONTRACTOR.
72. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION. DUCT ACCESS PANELS INSTALLED BY HVAC CONTRACTOR.
73. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
74. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
75. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
76. ALL ROOF MOUNTED EQUIPMENT CURBS FOR EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
77. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
78. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL. FIRE DAMPERS SHALL BE PROVIDED AS PER BUILDING CODE.
79. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.
80. SLOPE REFRIGERANT PIPING ONE PERCENT IN THE DIRECTION OF OIL RETURN. LIQUID LINES MAY BE INSTALLED LEVEL.
81. INSTALL HORIZONTAL REFRIGERANT HOT GAS DISCHARGE PIPING WITH 1/2" PER 10 FEET DOWNWARD SLOPE AWAY FROM THE COMPRESSOR.
82. INSTALL HORIZONTAL REFRIGERANT SUCTION LINES WITH 1/2" PER 10 FEET DOWNWARD SLOPE TO THE COMPRESSOR, WITH NO LONG TRAPS OR DEAD ENDS WHICH MAY CAUSE OIL TO SEPARATE FROM THE SUCTION GAS AND RETURN TO THE COMPRESSOR IN DAMAGING SLUGS.
83. PROVIDE LINE SIZE LIQUID INDICATORS IN MAIN LIQUID LINE LEAVING CONDENSER OR RECEIVER. INSTALL MOISTURE-LIQUID INDICATORS IN LIQUID LINES BETWEEN FILTER DRYERS AND THERMOSTATIC EXPANSION VALVES AND IN LIQUID LINE TO RECEIVER.
84. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL L



KITCHEN/CAFE - DUCTWORK - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

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KEY PLAN

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

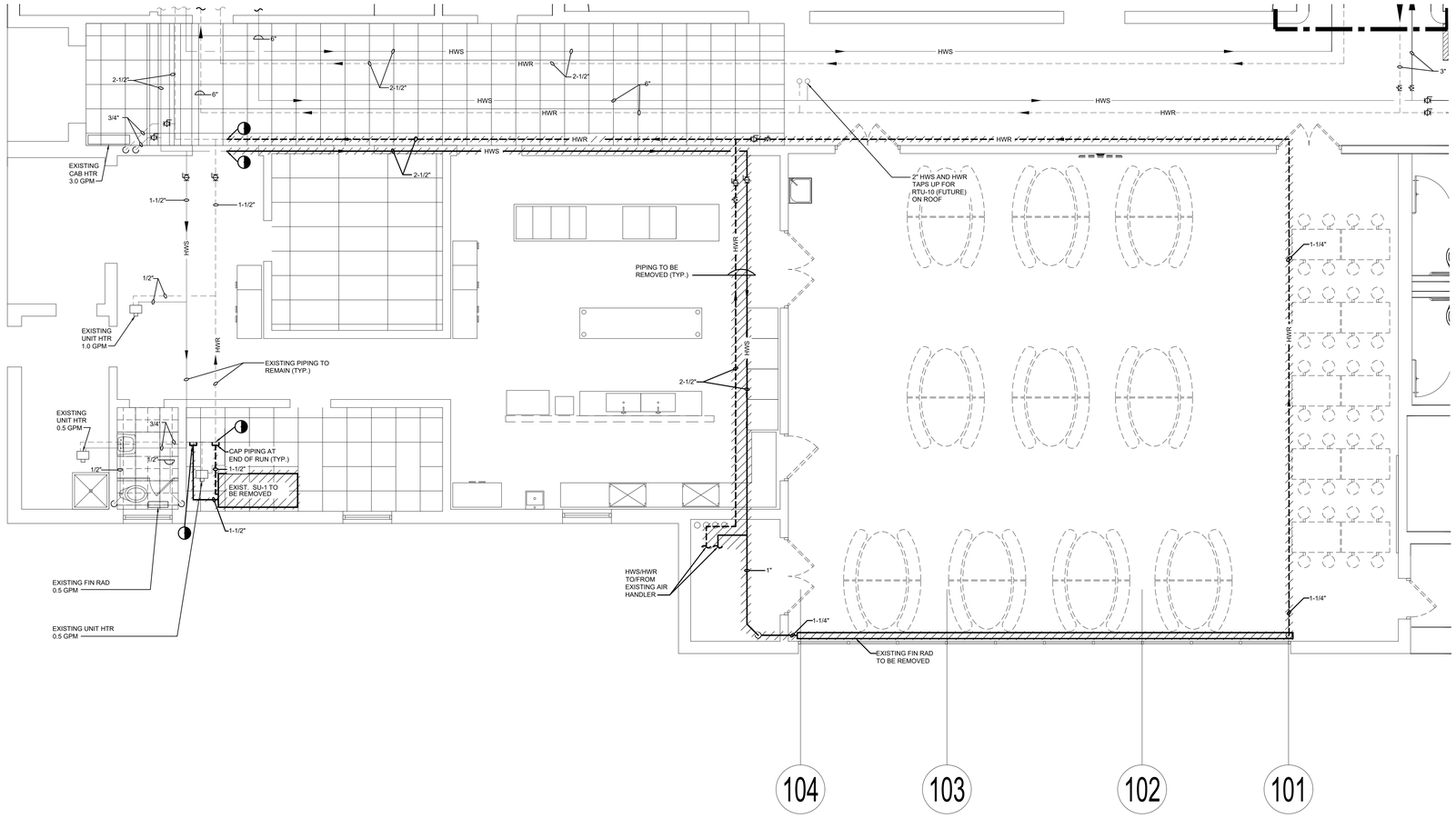
DRAWING TITLE:
KITCHEN/CAFE DUCTWORK DEMOLITION PLANS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
MD-100

CAD FILE:4240-AES-MD-100.DWG PLOT DATE:4/9/2026



KITCHEN/CAFE PIPING - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

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REVISION NO:

BID Documents
April 10, 2026

KEY PLAN

NORTH

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:
KITCHEN/CAFE PIPING DEMOLITION PLANS

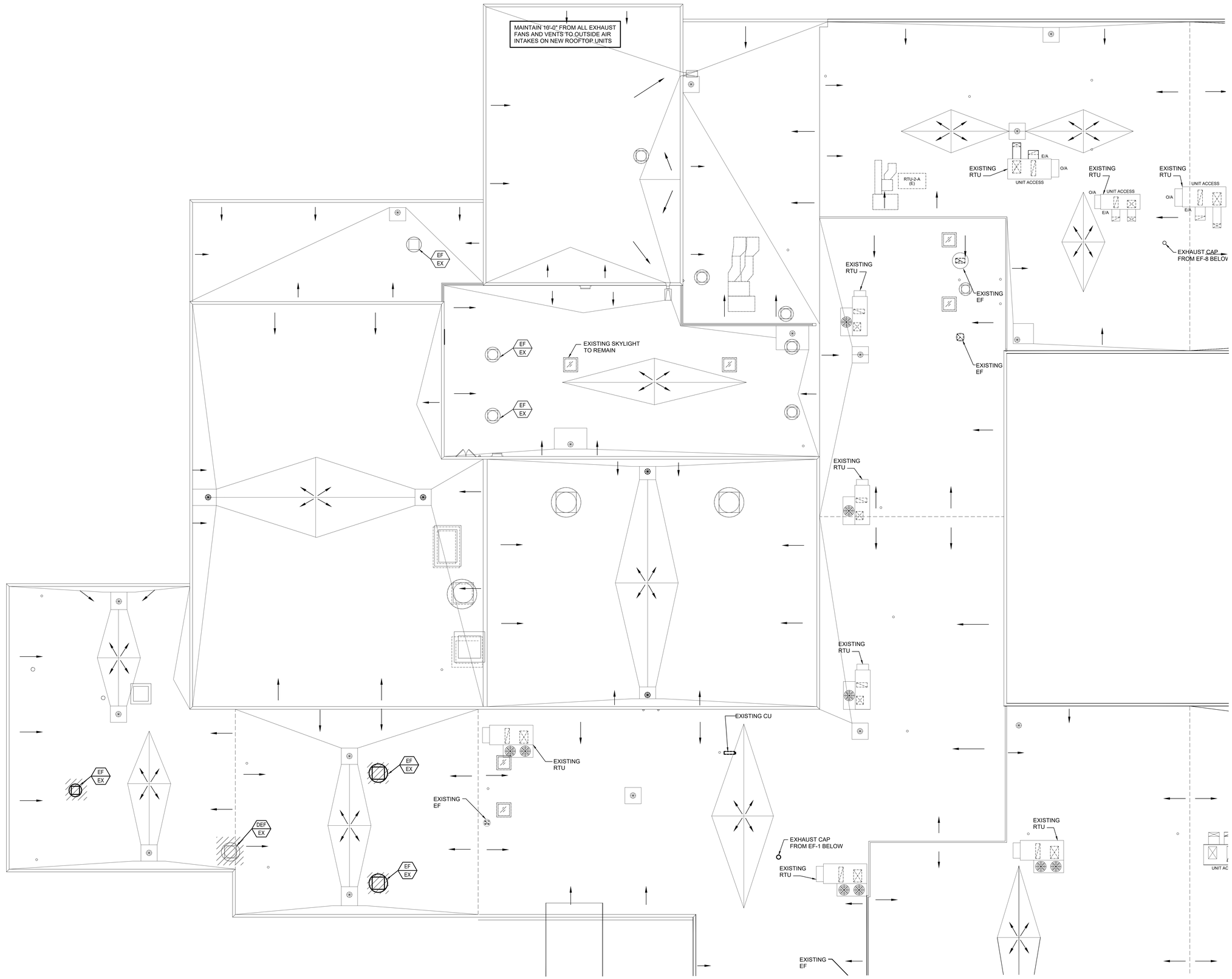
DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

DRAWING NO:

BUILDING
AES

MD-101

CAD FILE:#240-AES-MD-101.DWG PLOT DATE:4/9/2026



PARTIAL ROOF PLAN - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

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405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

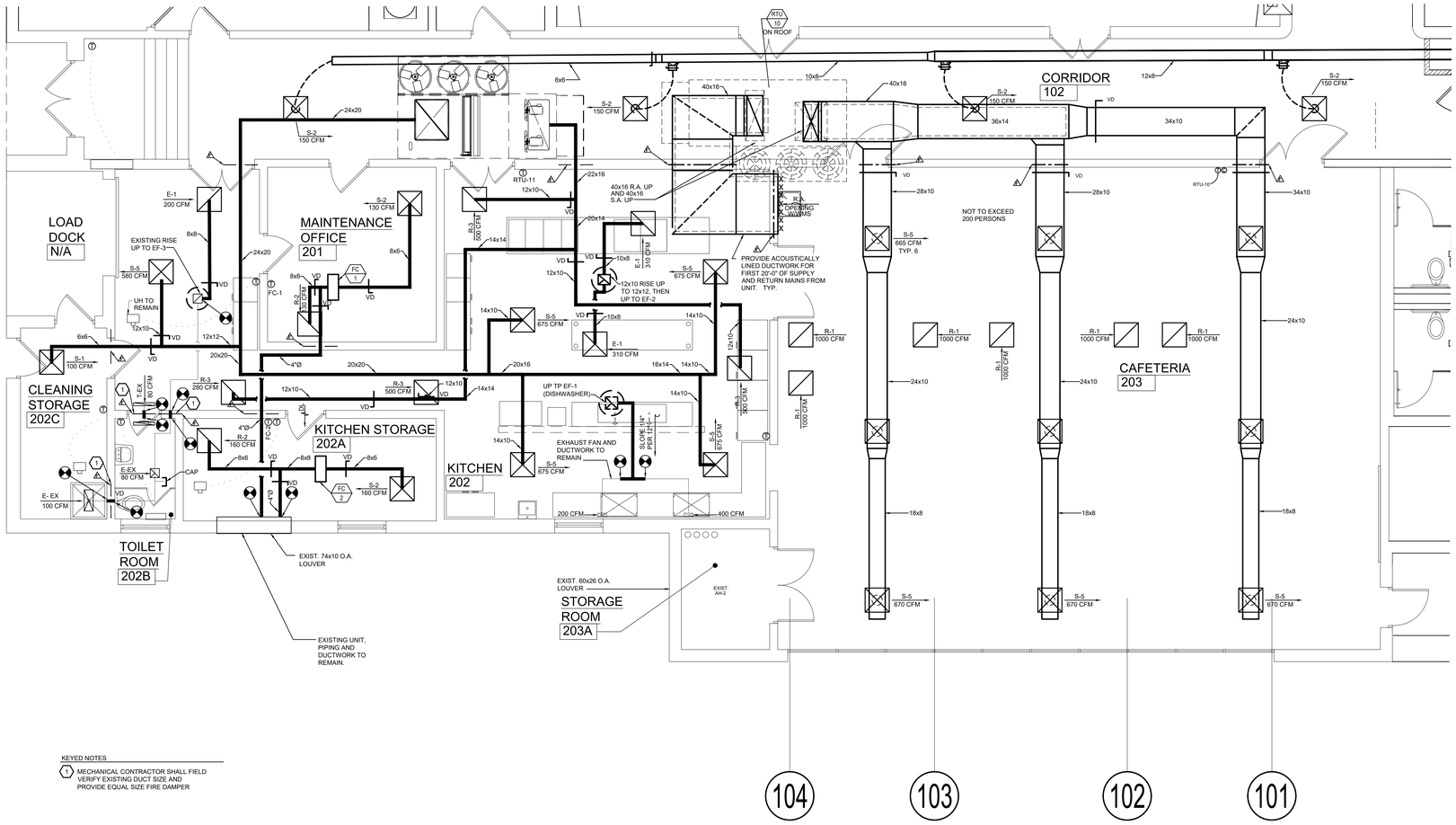
DRAWING TITLE:
PARTIAL ROOF DEMOLITION PLANS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
MD-200

CAD FILE:4240-AES-MD-200.DWG PLOT DATE:4/9/2026



KEYED NOTES

1. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXISTING DUCT SIZE AND PROVIDE EQUAL SIZE FIRE DAMPER

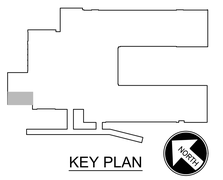
KITCHEN/CAFE- DUCTWORK RENOVATION PLAN

SCALE: 1/4" = 1'-0"

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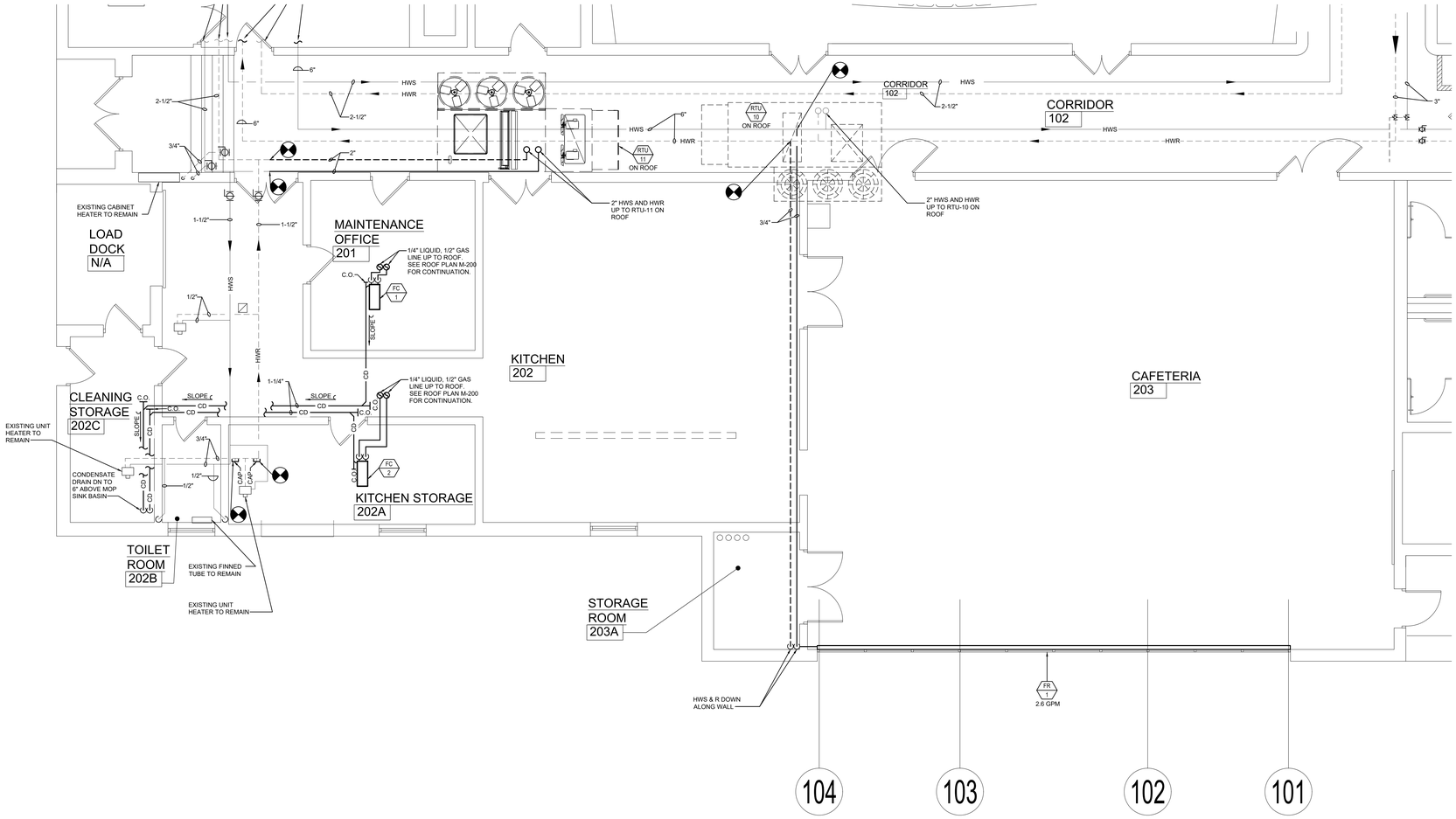
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KITCHEN/CAFE DUCTWORK RENOVATION PLANS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
M-100

CAD FILE:4240-AES-M-100.DWG PLOT DATE:4/9/2026



KITCHEN/CAFE - PIPING RENOVATION PLAN

SCALE: 1/4" = 1'-0"

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SEALS:

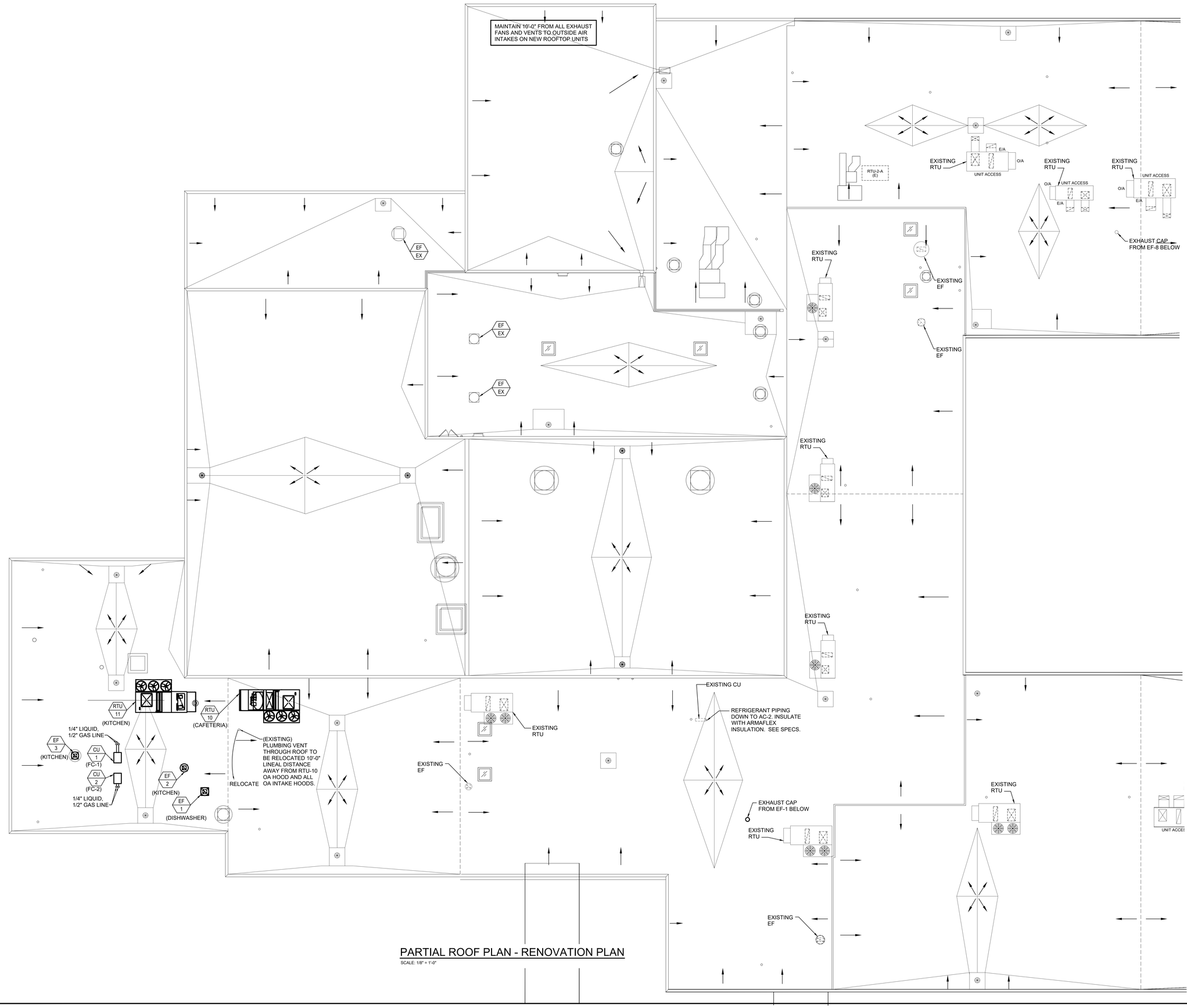
DRAWING TITLE:
KITCHEN/CAFE PIPING RENOVATION PLANS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
M-101

CAD FILE:4240-AES-M-101.DWG PLOT DATE:4/9/2026



PARTIAL ROOF PLAN - RENOVATION PLAN

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

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PROJECT TITLE:

Owego Apalachin School
District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:

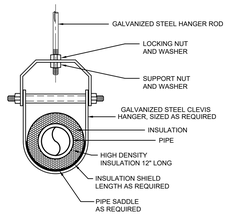
PARTIAL ROOF
RENOVATION PLANS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
M-200

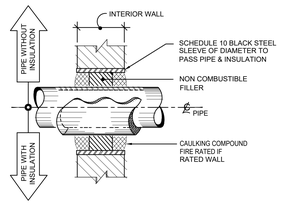
CAD FILE:4240-AES-M-200.DWG PLOT DATE:4/9/2026



- SIZE INSERT TO FIT PIPE AND INSULATION THICKNESS
- SIZE HANGER TO FIT INSULATION THICKNESS, INSERT, SHIELD AND ACCESSORIES
- COORDINATE HANGERS WITH STRUCTURAL COMPONENTS
- PIPE INSULATION AND JACKET SHALL BE CONTINUOUS, PROVIDE PIPE ACCESSORIES AS REQUIRED
- PROVIDE INSERTS AND SHIELDS ON ALL INSULATED PIPING (HOT AND COLD PIPING), REFER TO SPECS

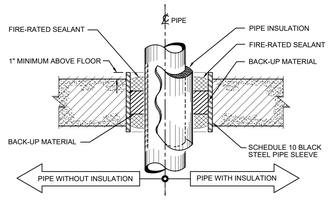
TYPICAL CLEVIS PIPE HANGER DETAIL (WITHIN BUILDING)

NOT TO SCALE



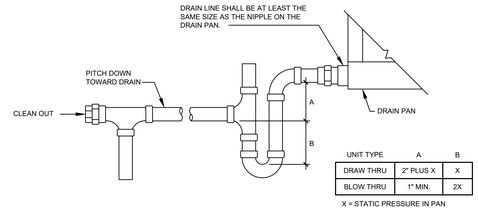
PIPE SLEEVE AT WALL PENETRATION

NOT TO SCALE



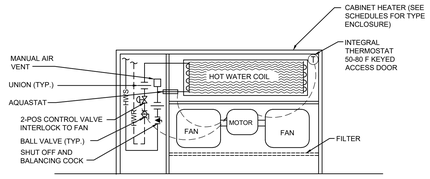
PIPE SLEEVE AT FLOOR PENETRATION

NOT TO SCALE



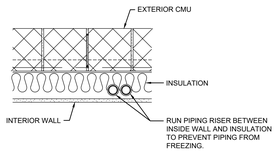
TYPICAL CONDENSATE DRAIN TRAP

NOT TO SCALE



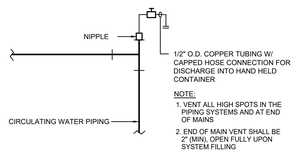
TYPICAL CABINET HEATER PIPING DETAIL

NOT TO SCALE



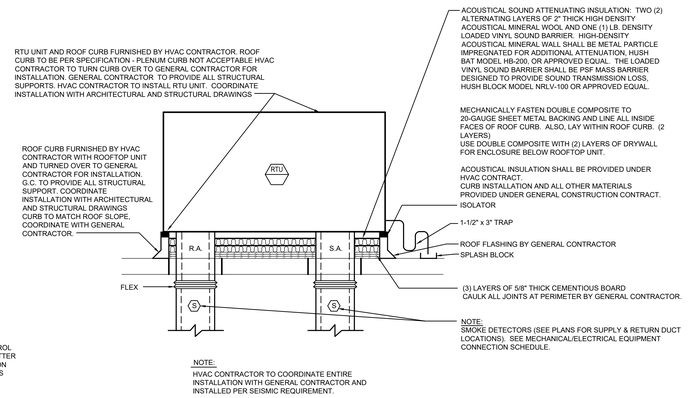
TYPICAL PIPING IN EXTERIOR WALL DETAIL

NOT TO SCALE



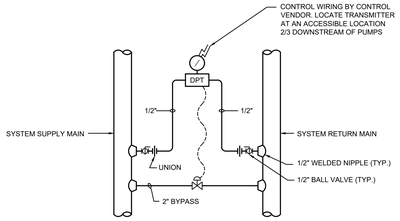
TYPICAL MANUAL AIR VENT DETAIL (HYDRONIC)

NOT TO SCALE



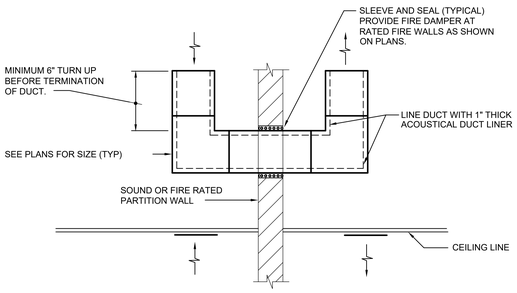
ROOFTOP UNIT DETAIL (RTU-10, RTU-11)

NOT TO SCALE



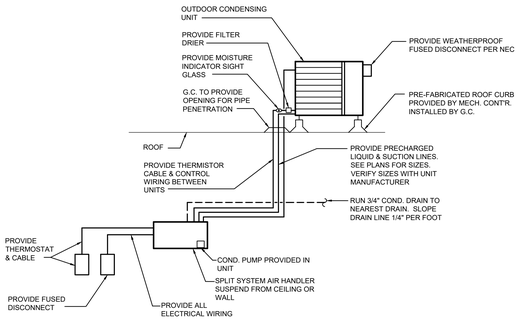
BYPASS/DIFFERENTIAL PRESSURE TRANSMITTER DETAIL

NOT TO SCALE



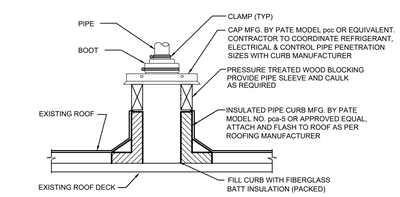
TRANSFER AIR BOOT DETAIL

NOT TO SCALE



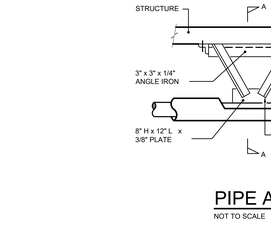
SPLIT SYSTEM SCHEMATIC DRAWING

NOT TO SCALE



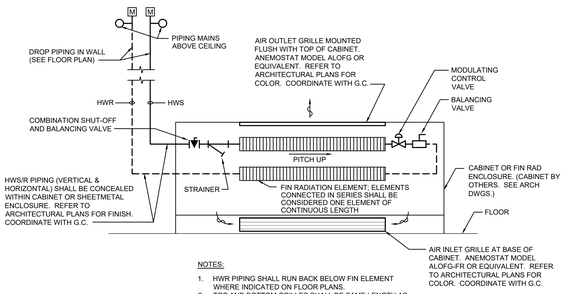
PIPE CURB DETAIL

NOT TO SCALE



HEATIING COIL DETAIL

NOT TO SCALE

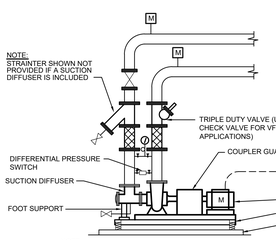


NOTES:

1. HWR PIPING SHALL RUN BACK BELOW FIN ELEMENT WHERE INDICATED ON FLOOR PLANS.
2. TOP AND BOTTOM GRILLES SHALL BE SAME LENGTH AS THE ELEMENT AND SHALL ALIGN WITH THE ELEMENT. GRILLES APPLY TO FIN RAD LOCATED IN CABINETRY ONLY. REFER TO SCHEDULES.
3. PROVIDE ACCESS PANELS IN CABINETRY FOR ACCESS TO PIPING VALVES/SPECIALTIES.

FIN RADIATION DETAIL

NOT TO SCALE

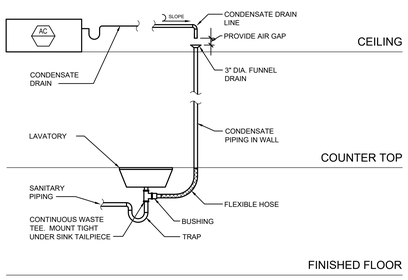


NOTES:

1. ALL PUMPS GREATER THAN X HP SHALL HAVE VFD SPEED CONTROL
2. COORDINATE VFD MFR WITH ALL OTHER EQUIPMENT. ALL VFD'S FOR ENTIRE PROJECT SHALL BE FROM ONE MANUFACTURER.

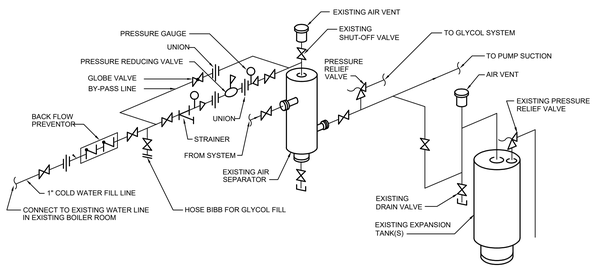
CONNECTIONS AT END SUCTION PUMPS

NOT TO SCALE



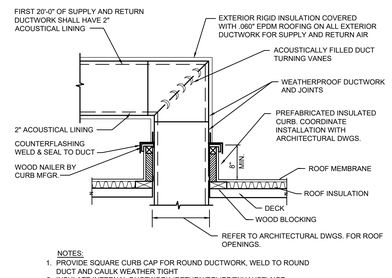
TYPICAL AC CONDENSATE DRAIN CONNECTION TO SINK DRAIN DETAIL

NOT TO SCALE



AIR CONTROL & PIPING CONNECTIONS FOR GLYCOL WATER SYSTEM DIAPHRAGM TYPE EXPANSION TANK

NOT TO SCALE



NOTES:

1. PROVIDE SQUARE CURB CAP FOR ROUND DUCTWORK, WELD TO ROUND DUCT AND CAULK WEATHER TIGHT
2. INSULATE INTERNAL DUCTWORK (RETURN/RELIEF/EXHAUST) NOT SCHEDULED TO BE INSULATED ELSEWHERE WITH WRAP, TYPE A INSULATION 2' - 0" MIN. FROM EXTERNAL PENETRATION

DUCTWORK CURB DETAIL

NOT TO SCALE

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405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

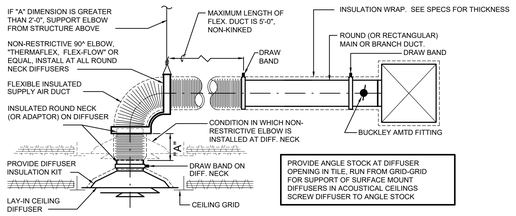
DRAWING TITLE:
HVAC DETAILS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

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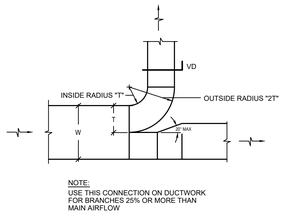
DRAWING NO:
M-400

CAD FILE: 4340-AES-M-400.DWG PLOT DATE: 4/9/2026



CEILING DIFFUSER / BRANCH DUCT DETAIL

NOT TO SCALE

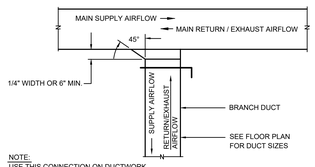


NOTE:
USE THIS CONNECTION ON DUCTWORK FOR BRANCHES 25% OR MORE THAN MAIN AIRFLOW

SIMILAR FOR EXHAUST & RETURN

BRANCH DUCT TAKEOFF DETAIL

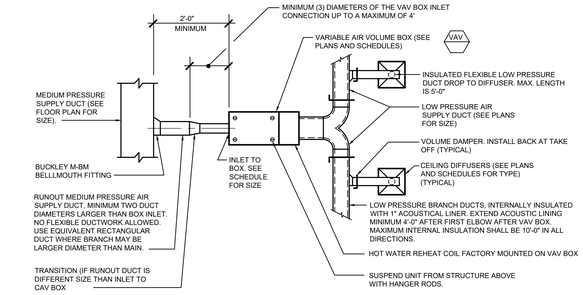
NOT TO SCALE



NOTE:
USE THIS CONNECTION ON DUCTWORK SHOWN ASS FOR BRANCHES LESS THAN 25% OF MAIN AIRFLOW

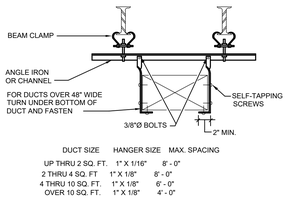
BRANCH DUCT TAKE OFF DETAIL

NOT TO SCALE



VARIABLE AIR VOLUME BOX DETAIL

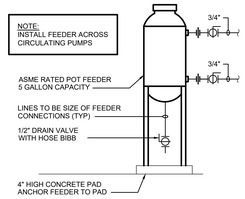
NOT TO SCALE



DUCT SIZE	HANGER SIZE	MAX. SPACING
UP THRU 2 SQ. FT.	1" X 1/16"	8' - 0"
2 THRU 4 SQ. FT	1" X 1/8"	8' - 0"
4 THRU 10 SQ. FT.	1" X 1/8"	6' - 0"
OVER 10 SQ. FT.	1" X 1/8"	4' - 0"

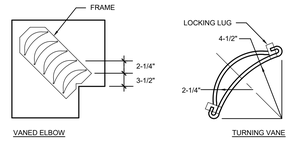
DUCT HANGING DETAIL AND SCHEDULE OF SUPPORTS

NOT TO SCALE



CHEMICAL FEEDER DETAIL

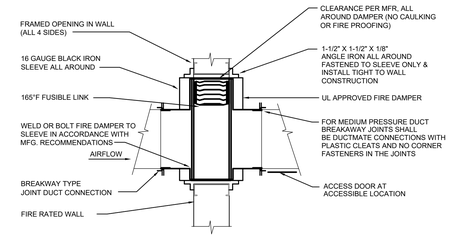
NOT TO SCALE



NOTES:
1. LOCKING LUGS INTEGRAL W/VANE.
2. MAXIMUM UNSUPPORTED VANE LENGTH 48"
3. FRAMES-BOLTED OR RIVETED TO ELBOW.
4. VANES & FRAMES-SAME GAUGE AS ELBOW.

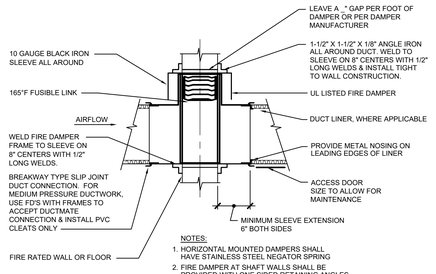
DOUBLE THICKNESS TURNING VANES FOR SQUARE ELBOW

NOT TO SCALE



TYPE C FIRE DAMPER DETAIL

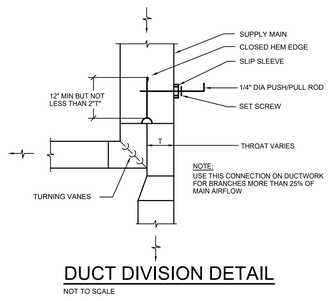
NOT TO SCALE



NOTES:
1. HORIZONTAL MOUNTED DAMPERS SHALL HAVE STAINLESS STEEL NEGATOR SPRING
2. FIRE DAMPER AT SHAFT WALLS SHALL BE PROVIDED WITH ONE SIDED RETAINING ANGLES.

TYPE B FIRE DAMPER DETAIL

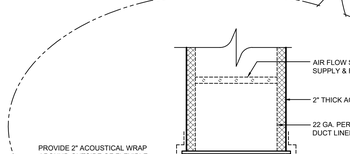
NOT TO SCALE



NOTE:
USE THIS CONNECTION ON DUCTWORK FOR BRANCHES MORE THAN 25% OF MAIN AIRFLOW

DUCT DIVISION DETAIL

NOT TO SCALE

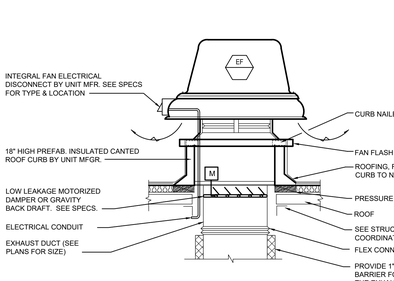


NOTE:
SMOKE DETECTORS SHALL BE PROVIDED BY E.C., INSTALLED BY M.C., AND WIRED TO SHUT DOWN THE UNIT UPON DETECTION OF PRODUCTS OF COMBUSTION (SMOKE) BY M.C. DETECTORS SHALL BE PROVIDED WITH TWO SETS OF ADDITIONAL NORMALLY OPEN CONTACTS. CONTACTS TO BE WIRED TO FIRE ALARM PANEL BY E.C. AND DDC PANEL BY M.C.

NOTE:
THIS DETAIL SHALL APPLY TO ALL RTU'S WHICH ARE NOT MOUNTED ON STEEL DUNNAGE.
REFER TO STRUCTURAL DRAWINGS.

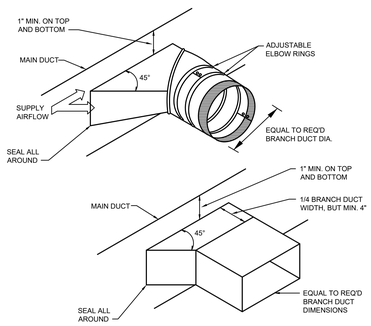
ROOFTOP UNIT ON CURB DETAIL

NOT TO SCALE



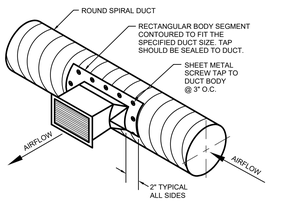
ROOF EXHAUST FAN DETAIL

NOT TO SCALE



TYPICAL BRANCH TAKE-OFF FITTING

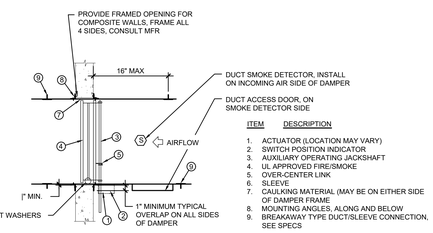
NOT TO SCALE



NOTE:
EXPOSED SUPPLY AIR DUCT SHALL BE DOUBLE WALL WITH INTERNAL LINER AND PERFORATED INNER DUCT AS PER SPECIFICATIONS.

ROUND SPIRAL DUCTWORK SADDLE TAP DETAIL

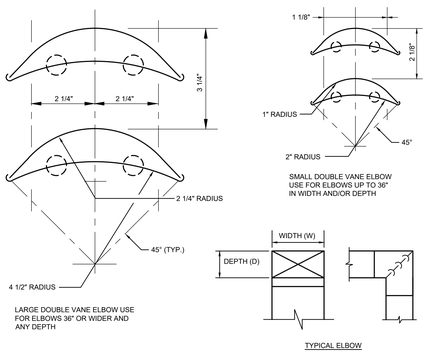
NOT TO SCALE



ITEM	DESCRIPTION
1.	ACTUATOR (LOCATION MAY VARY)
2.	SWITCH POSITION INDICATOR
3.	AUXILIARY OPERATING JACKSHAFT
4.	UL APPROVED FIRE/SMOKE
5.	OVER-CENTER LINK
6.	SLEEVE
7.	CAULKING MATERIAL (MAY BE ON EITHER SIDE OF DAMPER FRAME
8.	MOUNTING ANGLES, ALONG AND BELOW
9.	BREAKAWAY TYPE DUCT/SLEEVE CONNECTION, SEE SPECS

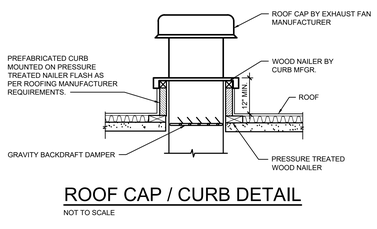
VERTICAL FIRE/SMOKE DAMPER DETAIL

NOT TO SCALE



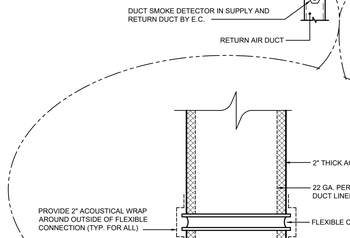
SQUARE OR RECTANGULAR ELBOWS

NOT TO SCALE



ROOF CAP / CURB DETAIL

NOT TO SCALE



NOTE:
THIS DETAIL SHALL APPLY TO ALL RTU'S WHICH ARE MOUNTED ON STEEL DUNNAGE.
REFER TO STRUCTURAL DRAWINGS.

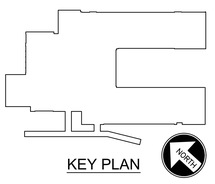
ROOFTOP UNIT ON DUNNAGE DETAIL

NOT TO SCALE

HIGHLAND ASSOCIATES
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102 Highland Avenue
Clarks Summit, PA 18411
570-586-4334
www.highlandassociates.com
New York • Pennsylvania

REVISION NO:

BID Documents
April 10, 2026



KEY PLAN

AES SED #60-06-01-06-0-008-018

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:
HVAC DETAILS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
M-401

CAD FILE: 4240-AES-M-401.DWG PLOT DATE: 4/9/2026

Unit Rating

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 360

	A1	A2	A3	A5	B1	B2	B3	B5	7	3A	3C	3D	3E	4A	4C	5A	5C	5D	5E	6A	6C	6D	6E	7	8A	8C
	R	N	0	1	6	8	0	0	-	A	B	0	-	A	R	0	0	-	N	0	0	0	-	B	0	0
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35

RNA-016-C-A-8-GAB0C-JOSP0:00-0FGAJ-QCB-00000-ABLBJ-EC-000
B-00-E0-0-AR0-00-N000-00-000-B00A00-E00FAF-000000B

Tag: RTU #10

Job Information

Job Name:	*Owego Apalachin Central School District Cafeteria*
Job Number:	*Job 141*
Site Altitude:	*0 ft*
Refrigerant:	*R-454B*
Design System Charge (oz):	*273 / 414*

Static Pressure

External:	*2.00 in. w.g.*
Cooling Coil:	*0.28 in. w.g.*
Filters Clean:	*0.11 in. w.g.*
Dirt Allowance:	*0.35 in. w.g.*
Reheat Coil:	*0.05 in. w.g.*

Cooling Section

	Gross	Net
Equivalent Total Capacity:	*270.3 MBH*	*255.3 MBH*
Total Capacity:	*192.1 MBH*	*177.1 MBH*
Sensible Capacity:	*159.2 MBH*	*144.2 MBH*
Latent Capacity:	*32.9 MBH*	
HW Total Cooling Capacity:	*78.2 MBH*	
Mixed Air Temp (DB/WB):	*77.0 °F / 63.4 °F*	
Entering Air Temp (DB/WB):	*77.0 °F / 63.4 °F*	
Lv Air Temp (Coil) (DB/WB):	*52.3 °F / 52.1 °F*	
Lv Air Temp (Unit) (DB/WB):	*54.5 °F / 53.0 °F*	

Supply Air Fan:	*1 x 270D60 @ 5.35 BHP Ea.*
SA Fan RPM / Width:	*1430 RPM / 3.680 in*
SA Fan FEI:	*1.23*
Exhaust Air Fan:	*1 x RM220A-BV @ 2.88 BHP Ea.*
EA Fan RPM / Width:	*1317 RPM / 4.930 in*
EA Fan FEI:	*0.75*
Evaporator Coil:	*19.9 ft² / 6 Rows / 12 FPI*
Evaporator Face Velocity:	*302.1 fpm*
Energy Recovery:	*1 x ERC-5235C-AM*

Rating Information

Listing Model	*RN-016-3-0-GABY-V0-21-000-A*
Cooling Capacity:	*190.0 MBH*
Cooling EER:	*11.76 BTUh/W*
Cooling IEER:	*15.78 BTUh/W*

**Rated in accordance with AHRI Standard 340/360 (I-P)*

Application EER @ Op. Conditions: ***12.0 BTUh/W***

Electrical Data

Unit Information

Approx. Op./Ship Weights:	*3679 lbs / 3679 lbs (±5%)*
Ambient Temperature (DB/WB):	*95.0 °F / 75.0 °F*
Coil Filter FV / Qty:	*288.0 fpm / 6*
Min. Room Area/Height/Airflow**:	*389 ft² / 8 ft / 701 SCFM*
Exhaust Airflow/ESP/TSP:	*6000 SCFM / 0.50 in. w.g. / 1.02 in. w.g.*
Outside Air Prefilter FV / Qty:	*229.1 fpm / 4*
Supply Airflow/ESP:	*6000 SCFM / 2.00 in. w.g.*
Outside Airflow:	*2400 SCFM*
Return Temperature (DB/WB):	*73.0 °F / 62.0 °F*
Economizer:	*0.16 in. w.g.*
Heater:	*0.75 in. w.g.*
Cabinet:	*0.16 in. w.g.*
Energy Recovery:	*0.32 in. w.g.*
Total:	*3.82 in. w.g.*

Heating Section

Preheat Type:	*Std (No Preheat)*
Auxiliary Heating Type:	*Hot Water Heat*
Heating Airflow:	*6000 SCFM*
Total Capacity:	*251.4 MBH*
Entering Air Temp (DB/WB):	*66.8 °F / 57.5 °F*
Leaving Air Temp (DB/WB):	*105.0 °F / 70.4 °F*
Entering Fluid:	*140.0 °F*
Leaving Fluid:	*120.9 °F*
GPM / Head:	*49.0 GPM / 5.5 ft*
Glycol % / Velocity:	*30.0% / 2.7 fps*
FA / RD / TPI / FV:	*7.5 ft² / 4 / 8 TPI / 8247.7 fpm*

Re-heat Coil:

Capacity:	*119.0 MBH*
Leaving Air Temp (DB/WB):	*70.7 °F / 59.4 °F*
Relative Humidity:	*51.5%*

Unit Rating

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 360

Circuit 1

Rating:	*208/3ΦΔ/60Hz*		*Minimum Circuit Amp:*		*107*	
Unit FLA:	*101*		*Maximum Overcurrent:*		*125*	
SCCR:	*10 KAIC*					
	Qty	*HP*	*VAC*	*Phase*	*RPM*	*FLA*	*RLA*
Compressor 1:	*1*		*208*	*3*			*26.9*
Compressor 2:	*1*		*208*	*3*			*26.3*
Condenser Fan:	*2*	*0.75*	*208*	*3*	*1060*	*3.4*	
Supply Fan:	*1*	*7.50*	*208*	*3*	*1760*	*24.2*	
Exhaust Fan:	*1*	*5.00*	*208*	*3*	*1760*	*15.2*	
Energy Recovery:	*1*	*0.17*	*230*	*1*	*1075*	*1.2*	

Cabinet Sound Power Levels*

Octave Bands:	**63**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**
Discharge LW (dB):	*92*	*91*	*92*	*93*	*89*	*88*	*88*	*84*
Return LW (dB):	*88*	*87*	*84*	*76*	*75*	*74*	*70*	*62*

**Sound data is generated by a propriety acoustics model validated through unit testing in accordance with AHRI 260, utilizing worst fan round data in accordance with AMCA 300.*

*****The minimum floor area is based on the Lower Flammability Limit (LFL) and calculated in accordance with UL60335-2-40 4th ed. (operating or storage). For UL60335-2-40 3rd ed. double the airflow and minimum floor area listed.***

27.4" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 360

JOB INFORMATION:

Job Name:	*Owego Apalachin Central School District Cafeteria*
Job Tag:	*RTU #10*
Date:	*10/22/2025 12:00:00 AM*

OPERATING CONDITIONS

Air Flow:	*6000*
Fan Energy Index (FEI):	*1.23*
Static Pressure:	*3.82 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*3.82 in. Wg*
Site Altitude	*0 ft*
TSP @ Sea Level:	*3.82 in. Wg*

FAN PERFORMANCE:

RPM:	*1430*
BHP:	*5.35*
Efficiency:	*67.54%*
Max Duct SP with Blocked Airway:	*0 in. Wg @1430 RPM*

WHEEL SPECIFICATION:

Max RPM:	*1800*
Diameter x Qty:	*27.4 in. x 1*
CFM:	*6000*
Inertia:	*16WR²*

MOTOR SELECTION

Rated HP / Bypass:	*7.5 x 1 / No*
Frame Size:	*213T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*208V/3Ø/60Hz*
Enclosure Type:	*ODP*
Max Inertial Load:	*0 WR²*

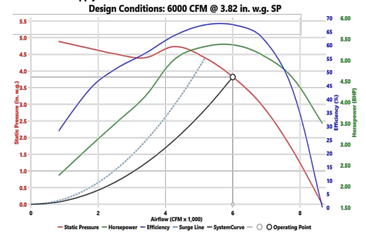
FAN SOUND POWER (Inlet/Outlet)

Octave Band:								(Re 10^-12 watts)
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
	90	*87*	*85*	*84*	*84*	*84*	*84*	*83*
	92	*90*	*91*	*93*	*91*	*90*	*91*	*87*

SOUND POWER A-Weighted: 98 dB

Max Duct SP with Blocked Airway:

Supply Fan Model: 270D60 @ 1430 RPM and 100% Width
Design Conditions: 6000 CFM @ 3.82 in. w.g. SP



22" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 360

JOB INFORMATION:

Job Name:	*Owego Apalachin Central School District Cafeteria*
Job Tag:	*RTU #10*
Date:	*10/22/2025 12:00:00 AM*

OPERATING CONDITIONS

Air Flow:	*6000*
Fan Energy Index (FEI):	*0.75*
Static Pressure:	*1.02 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*1.02 in. Wg*
Site Altitude	*0 ft*
TSP @ Sea Level:	*1.02 in. Wg*

FAN PERFORMANCE

RPM:	*1317*
BHP:	*2.88*
Efficiency:	*33.50%*
Max Duct SP with Blocked Airway:	*0 in. Wg @1317 RPM*

WHEEL SPECIFICATION:

Max RPM:	*2200*
Diameter x Qty:	*22 in. x 1*
CFM:	*6000*
Inertia:	*5WR²*

MOTOR SELECTION

Rated HP / Bypass:	*5 x 1 / No*
Frame Size:	*184T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*208V/3Ø/60Hz*
Enclosure Type:	*ODP*
Max Inertial Load:	*0 WR²*

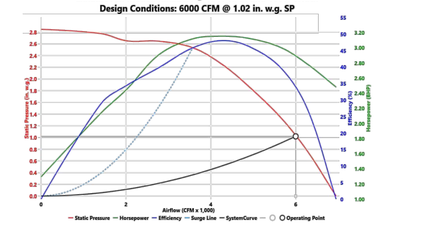
FAN SOUND POWER (Inlet/Outlet)

Octave Band:								(Re 10^-12 watts)
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
	87	*87*	*88*	*83*	*77*	*76*	*71*	*63*

SOUND POWER A-Weighted: dB

Max Duct SP with Blocked Airway:

Exhaust Fan Model: RM220A @ 1317 RPM and 100% Width
Design Conditions: 6000 CFM @ 1.02 in. w.g. SP



Unit Submittal

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 360

	A1	A2	A3	A5	B1	B2	B3	B5	7	3A	3C	3D	3E	4A	4C	5A	5C	5D	5E	6A	6C	6D	6E	7	8A	8C
	R	N	0	1	6	8	0	0	-	A	B	0	-	A	R	0	0	-	N	0	0	0	-	B	0	0
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35

RNA-016-C-A-8-GAB0C-JOSP0:00-0FGAJ-QCB-00000-ABLBJ-EC-000
B-00-E0-0-AR0-00-N000-00-000-B00A00-E00FAF-000000B

Tag: RTU #10

Job Name: Owego Apalachin Central School District Cafeteria — Unit Worksheet For:

Job Number: Job 141 — Unit Worksheet Date: 10/22/2025

	Base Option	Description
RN	Generation	RN Series
A	Major Revision	Major Revision A
016	Unit Size	Sixteen
C	Series	C Series
A	Minor Revision	Minor Revision A
8	Voltage	208V/3ø/60Hz
G	Compressor Style	R-454B Variable Capacity Scroll Compressor
A	Condenser Style	Microchannel Air-Cooled Condenser
B	Indoor Coil Configuration	6 Row Evaporator
0	Cooling Heat Exchanger Construction	Standard
C	Cooling Staging	1 Variable Capacity Comp + 1 Two-Step Comp
J	Heat Type	Hot Water Coil
0	Heat Construction	Standard
S	Heat Designation	4 Row
P	Heat Staging	Single Serpentine 8 FPI
0	Heat Pump Auxiliary Heating	No Auxiliary Heat

	Feature Option	Description
0	F1. Unit Orientation	Standard Access - Hinged Access Doors with Lockable Handles
0	F2. Supply & Return Locations	Bottom Supply--Bottom Return
0	F3A. Supply Fan Quantity	1 Fan
F	F3B. Supply Fan Configuration	1 Fan per VFD + Narrow Width Fan
G	F3C. Supply Fan Size	27" Direct Drive Backward Curved Aluminum
A	F3D. Supply Fan Motor Type	High Efficiency Open Motor (1,800 nominal rpm)
J	F3E. Supply Fan Motor Size	7.5 hp
Q	F4A. Outside Air Section	Economizer + Energy Recovery + Bypass Damper
C	F4B. Energy Recovery Type	Aluminum Energy Recovery Wheel
B	F4C. Energy Recovery Size	High CFM Enthalpy
0	F5A. Return Fan Quantity	0 Return Fans
0	F5B. Return Fan Configuration	No Return Fan
0	F5C. Return Fan Size	No Return Fan
0	F5D. Return Fan Motor Type	No Return Fan
0	F5E. Return Fan Motor Size	No Return Fan
A	F6A. Exhaust Fan Quantity	1 Fan
B	F6B. Exhaust Fan Configuration	1 Fan per VFD + Full Width Fan
L	F6C. Exhaust Fan Size	22" Backward Curved Aluminum
B	F6D. Exhaust Fan Motor Type	High Efficiency Open Motor (1,800 nominal rpm)
J	F6E. Exhaust Fan Motor Size	5 hp
E	F7. Outside Air Control	DDC Actuator
C	F8. Return and Exhaust Air Options	Standard Barometric Relief EA Dampers
0	F9A. Unit Filter Type	2" Pleated - MERV 8
0	F9B. Unit Filter Size & Location	Standard Filters in Standard Position
0	F9C. Final Filter Type	No Final Filters
B	F9D. Filter Options	Clogged Filter Switch - Unit + Energy Recovery Filters
0	F10A. Refrigeration Control A	Standard - Fixed 55°F Comp. Cooling Lock Out

	Feature Option	Description
0	F10B. Refrigeration Control B	Standard
E	F11A. Refrigeration Options A	Modulating Hot Gas Reheat Microchannel Coil [MHGR-MC]
0	F11B. Refrigeration Options B	Standard Packaged Unit
0	F12. Refrigeration Accessories	None
A	F13A. Unit Disconnect Type	Single Point Power - Non-fused Disconnect Power Switch
R	F13B. Disconnect 1 Size	150 Amps
0	F13C. Disconnect 2 Size	Standard - None
0	F14. Safety Options	None
0	F15. Electrical Accessories	None
N	F16A. Control Sequence	Field Installed DDC Controls + Isolation Relays
0	F16B. Control Supplier	None
0	F16C. Control Supplier Options	None
0	F16D. BMS Connection & Diagnostics	None
0	F17A. Preheat Configuration	Standard - None
0	F17B. Preheat Sizing	Standard - None
0	F18A. Option Box Location	None
0	F18B. Option Box Size	None
0	F18C. Option Box Accessories	None
B	F19. Outside Air Accessories	Outside Air Hood with Metal Mesh Filters
0	F20. Cabinet Options	Standard - None
0	F21. Accessories	Standard
A	F22. Maintenance Accessories	Factory Wired 115V Convenience Outlet
0	F23. Code Options	Standard - ETL U.S.A. Listing
0	F24. Shipping Splits	Standard
E	F25. Air-Cooled Condenser Accessories	VFD Condenser Fan Head Pressure Control
0	F26. Evap-Cooled Condenser Accessories	Standard
0	F27. Water-Cooled Condenser Accessories	None
F	F28. Energy Recovery Accessories	ERW Defrost - Start/Stop + ERW Rotation Detection
A	F29. VFD Options	Shaft grounding kit on all SA, RA, EA motors
F	F30. Miscellaneous Options	Condensate Overflow Switch + SCCR (10kA)
0	F31. Blank	Standard
0	F32. Blank	Standard
0	F33. Blank	Standard
0	F34. Blank	Standard
0	F35. Warranty	Standard Warranty
0	F36. Cabinet Material	Galvanized Cabinet - Double Wall + R-16 Foam Insulation
B	F37. Specials & Paint	Premium AAON Gray Paint Exterior Paint

Terminals

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Ecat Price Version: 360

	A1	A2	A3	A5	B1	B2	B3	B5	7	3A	3C	3D	3E	4A	4C	5A	5C	5D	5E	6A	6C	6D	6E	7	8A	8C
	R	N	0	1	6	8	0	0	-	A	B	0	-	A	R	0	0	-	N	0	0	0	-	B	0	0
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35

RNA-016-C-A-8-GAB0C-JOSP0:00-0FGAJ-QCB-00000-ABLBJ-EC-000
B-00-E0-0-AR0-00-N000-00-000-B00A00-E00FAF-000000B

Tag: RTU #10

Job Name: Owego Apalachin Central School District Cafeteria — For:

Job Number: Job 141 — Date: October 22, 2025

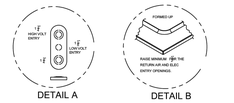
Terminals Available/Required for Controlling the Unit

Terminals	Decription
[R]	24VAC Control Voltage
[C]	Common
[G]	Supply Fan Enable + Isolation Relay
[Y1]	Cooling Stage 1 Enable + Isolation Relay
[Y2]	Cooling Stage 2 Enable + Isolation Relay
[Y3]	Cooling Stage 3 Enable + Isolation Relay
[DC1-] & [DC1+]	Variable Capacity Compressor 1 (1.44-9VDC) Signal
[SP1-] & [SP1+]	Suction Pressure Sensor - Compressor 1 (0-5VDC)
[HW]	Energy Recovery Wheel Enable + Isolation Relay
[HWR] & [C]	Energy Recovery Wheel Rotation Detection
[PE]	Power Exhaust Enable + Isolation Relay
[B1-] & [B2+]	Exhaust Fan 1 - w/ 1 VFD: Signal (0-10VDC)
	VFD frequency reference signal control point must handle a rated 20k ohm input impedance.
[S1-] & [S2+]	Supply Fan 1 - w/ 1 VFD: Signal (0-10VDC)
	VFD frequency reference signal control point must handle a rated 20k ohm input impedance.
[EC1-] & [EC2+]	Economizer Signal (0-10VDC)
[C1] & [C2]	Clogged Filter Switch (Standard Filters)
[C3 & C4]	Clogged Filter Switch (ERV Wheel O/A Filter)
[RH1]	Reheat Enable + Isolation Relay
	Must enable and modulate the digital compressors during dehumidification mode.The control logic needs to set if cooling or dehumidification is priority.
[AI1] & [COM]	Reheat Reset Signal (0-10VDC)
	Resets the Reheat Supply Air Temp Setpoint

Terminations Found on VFD(s)	
Exhaust Fan VFD(s)	
[AM] & [AC]	Current Feedback (0-10VDC = 0-100%)
[AM] & [AC]	Current Feedback (0-10VDC = 0-100%)
Supply Fan VFD(s)	
[MA] & [MC]	Fault
A2L Terminals	
[ALM1] & [ALM2]	A2L Airstream Alarm & Cabinet Alarm
	A2L Mitigation Board 1
	P/N: ASM0763
	A2L Mitigation Board 2
	P/N: ASM0763

RN SERIES
C - CABINET WITH ECONOMIZER ~ 16-30 TON
ENERGY RECOVERY SECTION AND POWER EXHAUST

CLEARANCES	
LOCATION	• UNIT SIZE • 16 - 30 TON
OUTSIDE AIR HOOD	48
CONTROLS SIDE (FRONT)	48
LEFT SIDE	6
RIGHT SIDE	60
TOP	UNOBSTRUCTED



DETAIL A

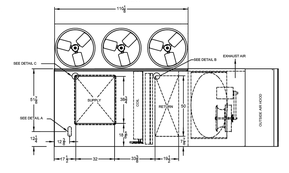
DETAIL B

NUMBER OF CONDENSER FANS
16,18 & 20 TON - 2 FANS
25 & 30 TON - 3 FANS

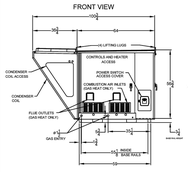


DETAIL C

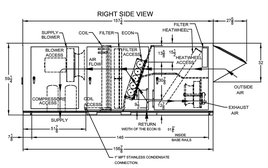
TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW



RNC-0005 REV:0 10/27/22
NOTE: ALL DIMENSIONS ARE IN INCHES

RTU-10 (CAFETERIA) DETAIL

NOT TO SCALE

HIGHLAND ASSOCIATES
architecture | engineering | interior design
102 Highland Avenue
Clarks Summit, PA 18411
570-586-4334
www.highlandassociates.com
New York • Pennsylvania

REVISION NO:

BID Documents
April 10, 2026



KEY PLAN

AES SED #60-06-01-06-0-008-018

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:
HVAC DETAILS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING: AES

DRAWING NO: M-402

CAD FILE: 4240-AES-M-402.DWG PLOT DATE: 4/9/2026

Unit Rating

AAON

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

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RNA-016-C-A-8-GAA0C-J0SS0:00-0FGAJ-H00-BBBBH-00000-EC-000
A-00-E0-0-AR0-00-N000-00-000-B00A00-C000AB-000000B
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Tag: RTU #11

Job Information

Job Name:	*Owego Apalachin Central School District Cafeteria*
Job Number:	*Job 141*
Site Altitude:	*0*
Refrigerant:	*R-454B*
Design System Charge (oz):	*220 / 361*

Static Pressure

External:	*2.00 in. w.g.*
Cooling Coil:	*0.12 in. w.g.*
Filters Clean:	*0.07 in. w.g.*
Dirt Allowance:	*0.35 in. w.g.*
Reheat Coil:	*0.02 in. w.g.*

Cooling Section

	Gross	Net
Total Capacity:	*183.3 MBH*	*174.7 MBH*
Sensible Capacity:	*124.4 MBH*	*116.3 MBH*
Latent Capacity:	*58.9 MBH*	
Mixed Air Temp (DB/WB):	*84.1 °F / 66.4 °F*	
Entering Air Temp (DB/WB):	*84.1 °F / 68.4 °F*	
Lv Air Temp (Coil) (DB/WB):	*50.5 °F / 50.3 °F*	
Lv Air Temp (Unit) (DB/WB):	*52.7 °F / 51.2 °F*	

Supply Air Fan:	*1 x 270D60 @ 3.06 BHP Ea.*
SA Fan RPM / Width:	*1239 RPM / 3.680 in*
SA Fan FEI:	*1.07*
Return Air Fan:	*2 x MW2205-35 @ 2.54 BHP Ea.*
RA Fan RPM / Pitch:	*1746 RPM / 35.0°*
RA Fan FEI:	*0.47*
Evaporator Coil:	*19.9 ft² / 4 Rows / 14 FPI*
Evaporator Face Velocity:	*376.2 fpm*

Rating Information

Listing Model	*RN-016-3-0-GAAT-V0-21-000-A*
Cooling Capacity:	*182.0 MBH*
Cooling EER:	*11.17 BTUh/W*
Cooling IEER:	*15.16 BTUh/W*

**Rated in accordance with AHRI Standard 340/360 (I-P)*

Application EER @ Op. Conditions: ***8.3 BTUh/W***

Electrical Data

Unit Information

Approx. Op./Ship Weights:	*3340 lbs / 3349 lbs (±5%)*
Ambient Temperature (DB/WB):	*95.0 °F / 75.0 °F*
Coil Fiber FV / Qty:	*160.0 fpm / 6*
Min. Room Area/Height/Airflow**:	*339 ft² / 7 ft / 611 SCFM*
Outside Air Prefilter FV / Qty:	*144.0 fpm / 4*
Supply Airflow/ESP:	*3500 SCFM / 2.00 in. w.g.*
Outside Airflow:	*1600 SCFM*
Return Airflow/ESP:	*3500 SCFM / 2.00 in. w.g.*
Return Temperature (DB/WB):	*73.0 °F / 62.0 °F*
Economizer:	*0.11 in. w.g.*
Heater:	*0.35 in. w.g.*
Cabinet:	*0.02 in. w.g.*
Total:	*3.03 in. w.g.*

Heating Section

Preheat Type:	*Std (No Preheat)*
Auxiliary Heating Type:	*Hot Water Heat*
Heating Airflow:	*3500 SCFM*
Total Capacity:	*274.8 MBH*
Entering Air Temp (DB/WB):	*57.1 °F / 56.1 °F*
Leaving Air Temp (DB/WB):	*105.0 °F / 65.3 °F*
Entering Fluid:	*140.0 °F*
Leaving Fluid:	*115.8 °F*
GPM / Head:	*24.0 GPM / 5.2 ft*
Glycol % / Velocity:	*30.0% / 2.8 fps*
FA / RD / FPI / TV:	*7.3 ft² / 4 / 10 FPI / 481.1 fpm*

Re-heat Coil:

Capacity:	*90.6 MBH*
Leaving Air Temp (DB/WB):	*75.0 °F / 60.1 °F*
Relative Humidity:	*41.6%*

Cabinet Sound Power Levels*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW (dB):	*89*	*91*	*90*	*90*	*87*	*85*	*83*	*79*
Return LW (dB):	*93*	*95*	*96*	*85*	*88*	*87*	*84*	*81*

**Sound data is presented for a proprietary assembly model validated through unit testing in accordance with AHRI 260 and includes sound rated data in accordance with ASHCA 100.*

*****The minimum floor area is based on the Lower Flammability Limit (LFL) and calculated in accordance with UL60335-2-40 4th ed. (operating or storage). For UL60335-2-40 3rd ed. double the airflow and minimum floor area listed.***

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Unit Rating

AAON

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Circuit 1

Rating:	*208Y/3Ø/60Hz*		*Minimum Circuit Amp:*	*120*	
Unit FLA:	*113*		*Maximum Overcurrent:*	*125*	
SCCR:	*10 KAIC*				
	Qty	*HP*	*VAC*	*Phase*	*RPM*	*FLA*	*RLA*
Compressor 1:	*1*		*208*	*3*			*26.8*
Compressor 2:	*1*		*208*	*3*			*26.3*
Condenser Fan:	*2*	*1.00*	*208*	*3*	*1160*	*5.4*	
Supply Fan:	*1*	*7.50*	*208*	*3*	*1760*	*24.2*	
Return Fan:	*2*	*3.00*	*208*	*3*	*1760*	*10.6*	

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27.4" STAR Plenum

AAON

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Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Owego Apalachin Central School District Cafeteria*
Job Tag:	*RTU #11*
Date:	*10/21/2025 1:58:51 PM*

OPERATING CONDITIONS

Air Flow:	*3500*
Fan Energy Index (FEI):	*1.07*
Static Pressure:	*3.03 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*3.03 in. Wg*
Site Altitude	*0*
TSP @ Sea Level:	*3.03 in. Wg*

FAN PERFORMANCE:

RPM:	*1239*
BHP:	*3.06*
Efficiency:	*54.64%*
Max Duct SP with Blocked Airway:	*0 in. Wg @1239 RPM*

Max Duct SP with Blocked Airway:

WHEEL SPECIFICATION:

Max RPM:	*1800*
Diameter x Qty:	*27.4 in. x 1*
CFM:	*3500*
Inertia:	*16WR²*

MOTOR SELECTION

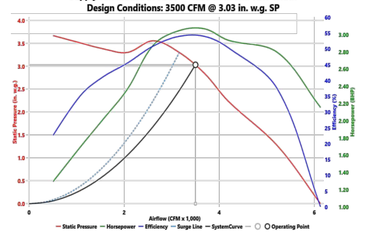
Rated HP / Bypass:	*7.5 x 1 / No*
Frame Size:	*213T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*208Y/3Ø/60Hz*
Enclosure Type:	*ODP*
Max Inertial Load:	*0 WR²*

FAN SOUND POWER (Inlet/Outlet)

Octave Band:	1	2	3	4	5	6	7	8
(Re 10^-12 watts)	84	82	80	79	79	80	79	78
	86	86	87	88	86	86	85	81

SOUND POWER A-Weighted: 93 dB

Supply Fan Model: 270D60 @ 1239 RPM and 72% Width
Design Conditions: 3500 CFM @ 3.03 in. w.g. SP



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MW2205-35 Axial Fan

AAON

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Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Owego Apalachin Central School District Cafeteria*
Job Tag:	*RTU #11*
Date:	*10/21/2025 1:58:51 PM*

OPERATING CONDITIONS

Air Flow:	*1750*
Fan Energy Index (FEI):	*0.47*
Static Pressure:	*2.04 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*2.04 in. Wg*
Site Altitude	*0*
TSP @ Sea Level:	*2.04 in. Wg*

FAN PERFORMANCE:

RPM:	*1746*
BHP:	*2.54*
Efficiency:	*72.16%*
Max Duct SP with Blocked Airway:	*0 in. Wg @1746 RPM*

Max Duct SP with Blocked Airway:

WHEEL SPECIFICATION:

Max RPM:	*1760*
Diameter x Qty:	*22.5 in. x 2*
CFM:	*1750*
Inertia:	*6WR²*

MOTOR SELECTION

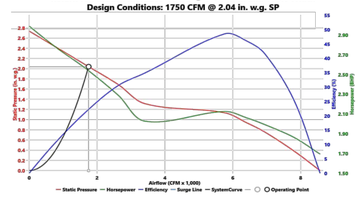
Rated HP / Bypass:	*3 x 2 / No*
Frame Size:	*182T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*208Y/3Ø/60Hz*
Enclosure Type:	*ODP*
Max Inertial Load:	*0 WR²*

FAN SOUND POWER (Inlet/Outlet)

Octave Band:	1	2	3	4	5	6	7	8
(Re 10^-12 watts)	93	96	91	93	92	90	87	84
	93	96	91	93	92	90	87	84

SOUND POWER A-Weighted: dB

Return Fan Model: MW2205-35 x 2 @ 1746 RPM and 100% Width
Design Conditions: 1750 CFM @ 2.04 in. w.g. SP



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Unit Submittal

AAON

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Ecat Price Version: 361

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A-00-E0-0-AR0-00-N000-00-000-B00A00-C000AB-000000B
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Tag: RTU #11

Job Name: Owego Apalachin Central School District Cafeteria Job 141

Unit Worksheet For:

Job Number: Unit Worksheet Date: 11/14/2025

	Base Option	Description
RN	Genetration	RN Series
A	Major Revision	Major Revision A
016	Unit Size	Sixteen
C	Series	C Series
A	Minor Revision	Minor Revision A
8	Voltage	208V/3ph/60Hz
G	Compressor Style	R-454B Variable Capacity Sussll Compressor
A	Condenser Style	Microchannel Air-Cooled Condenser
A	Indoor Coil Configuration	Standard Evaporator
0	Cooling Heat Exchanger Construction	Standard
C	Cooling Staging	1 Variable Capacity Comp + 1 Two-Step Comp
J	Heat Type	Hot Water Coil
0	Heat Construction	Standard
S	Heat Designation	4 Row
S	Heat Staging	Half/Serpentine 10 FPI
0	Heat Pump Auxiliary Heating	No Auxiliary Heat

	Feature Option	Description
0	F1. Unit Orientation	Standard Access - Hinged Access Doors with Lockable Handles
0	F2. Supply & Return Locations	Bottom Supply--Bottom Return
0	F3A. Supply Fan Quantity	1 Fan
F	F3B. Supply Fan Configuration	1 Fan per VFD + Narrow Width Fan
G	F3C. Supply Fan Size	27" Direct Drive Backward Curved Aluminum
A	F3D. Supply Fan Motor Type	High Efficiency Open Motor (1,800 nominal rpm)
J	F3E. Supply Fan Motor Size	7.5 hp
H	F4A. Outside Air Section	Economizer + Power Return
0	F4B. Energy Recovery Type	No Energy Recovery
0	F4C. Energy Recovery Size	No Energy Recovery
B	F5A. Return Fan Quantity	2 Fans
B	F5B. Return Fan Configuration	1 Fan per VFD
B	F5C. Return Fan Size	22" Axial Fan
B	F5D. Return Fan Motor Type	High Efficiency Open Motor (1,800 nominal rpm)
H	F5E. Return Fan Motor Size	3 hp
0	F6A. Exhaust Fan Quantity	0 Exhaust Fans
0	F6B. Exhaust Fan Configuration	No Exhaust Fan
0	F6C. Exhaust Fan Size	No Exhaust Fan
0	F6D. Exhaust Fan Motor Type	No Exhaust Fan
0	F6E. Exhaust Fan Motor Size	No Exhaust Fan
E	F7. Outside Air Control	DDC Actuator
C	F8. Return and Exhaust Air Options	Standard Barometric Relief EA Dampers
0	F9A. Unit Filter Type	2" Pleated - MERV 8
0	F9B. Unit Filter Size & Location	Standard Filters in Standard Position
0	F9C. Final Filter Type	No Final Filters
A	F9D. Filter Options	Clogged Filter Switch - Unit Filters
0	F10A. Refrigeration Control A	Standard - Fixed 55°F Comp. Cooling Lock Out

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	Feature Option	Description
0	F10B.	Refrigeration Control B	Standard
E	F11A.	Refrigeration Options A	Modulating Hot Gas Reheat Microchannel Coil [MHGR-MC]
0	F11B.	Refrigeration Options B	Standard Packaged Unit
0	F12.	Refrigeration Accessories	None
A	F13A.	Unit Disconnect Type	Single Point Power - Non-fused Disconnect Power Switch
R	F13B.	Disconnect 1 Size	150 Amps
0	F13C.	Disconnect 2 Size	Standard - None
0	F14.	Safety Options	None
0	F15.	Electrical Accessories	None
N	F16A.	Control Sequence	Field Installed DDC Controls + Isolation Relays
0	F16B.	Control Supplier	None
0	F16C.	Control Supplier Options	None
0	F16D.	BMS Connection & Diagnostics	None
0	F17A.	Preheat Configuration	Standard - None
0	F17B.	Preheat Sizing	Standard - None
0	F18A.	Option Box Location	None
0	F18B.	Option Box Size	None
0	F18C.	Option Box Accessories	None
B	F19.	Outside Air Accessories	Outside Air Hood with Metal Mesh Filters
0	F20.	Cabinet Options	Standard - None
0	F21.	Accessories	Standard
A	F22.	Maintenance Accessories	Factory Wired 115V Convenience Outlet
0	F23.	Code Options	Standard - ETL U.S.A. Listing
0	F24.	Shipping Splits	Common
C	F25.	Air-Cooled Condenser Accessories	ECM Condenser Fan Head Pressure Control
0	F26.	Evap-Cooled Condenser Accessories	Standard
0	F27.	Water-Cooled Condenser Accessories	None
0	F28.	Energy Recovery Accessories	None
A	F29.	VFD Options	Shaft grounding kit on all SA, RA, EA motors
B	F30.	Miscellaneous Options	SCCR (10KA)
0	F31.	Blank	Standard
0	F32.	Blank	Standard
0	F33.	Blank	Standard
0	F34.	Blank	Standard
0	F35.	Warranty	Standard Warranty
0	F36.	Cabinet Material	Galvanized Cabinet - Double Wall + R-16 Foam Insulation
B	F37.	Specials & Paint	Premium AAON Gray Paint Exterior Paint

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Terminals

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Ecat Price Version: 361

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A-00-E0-0-AR0-00-N000-00-000-B00A00-C000AB-000000B
```

Tag: RTU #11

Job Name: Owego Apalachin Central School District Cafeteria For:

Job Number: Job 141 Date: November 14, 2025

Terminals Available/Required for Controlling the Unit

Terminals	Description
[R]	24VAC Control Voltage
[C]	Common
[G]	Supply Fan Enable/ Return Fan Enable + Isolation Relay
[Y1]	Cooling Stage 1 Enable + Isolation Relay
[Y2]	Cooling Stage 2 Enable + Isolation Relay
[Y3]	Cooling Stage 3 Enable + Isolation Relay
[DC1-] & [DC1+]	Variable Capacity Compressor 1 (1.44-5VDC) Signal
[SP1-] & [SP1+]	Suction Pressure Sensor - Compressor 1 (0-5VDC)
[S1-] & [S2+]	Supply Fan 1 - w/ 1 VFD: Signal (0-10VDC)
	VFD frequency reference signal control point must handle a rated 20k ohm input impedance.
[EC1-] & [EC2+]	Economizer Signal (0-10VDC)
[C1] & [C2]	Clogged Filter Switch (Standard Filters)
[RH1]	Reheat Enable + Isolation Relay
	Must enable and modulate the digital compressors during dehumidification mode.The control logic needs to set if cooling or dehumidification is priority.
[AI1] & [COM]	Reheat Reset Signal (0-10VDC)
	Resets the Reheat Supply Air Temp Setpoint

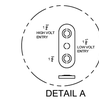
Terminations Found on VFD(s)	
[AM] & [AC]	Current Feedback (0-10VDC = 0-100%)
Return Fan VFD(s)	
[AM] & [AC]	Current Feedback (0-10VDC = 0-100%)
Supply Fan VFD(s)	
[PR1-] & [PR2+]	Return Fan 1 & 2 - w/ 2 VFD: Signal (0-10VDC)
	VFD frequency reference signal control point must be able to handle 2 VFD's connected in parallel. Each drive is rated for 20k ohm input impedance.
[MA] & [MC]	Fault
[MA] & [MC]	Fault
A2L Terminals	
[ALM1] & [ALM2]	A2L Airstream Alarm & Cabinet Alarm
	A2L Mitigation Board 1
	P/N: ASM0763
	A2L Mitigation Board 2
	P/N: ASM0763

Last Modified By:William Hubbard - H.C. Nye Co. - King of Prussia, PA
Date Created/Modified:10/21/2025 1:58:51 PM Using Performance Version:361.1

Date Printed:11/14/2025 10:40:47 AM

RN SERIES
C - CABINET WITH ECONOMIZER ~ 16-30 TON
AND POWER RETURN

CLEARANCES	
LOCATION	UNIT SIZE - 16 - 30 TON
OUTSIDE AIR (BACK)	48
CONDENSER SIDE (FRONT)	48
LEFT SIDE	6
RIGHT SIDE	60
TOP	UNOBSTRUCTED

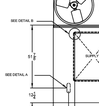


DETAIL A



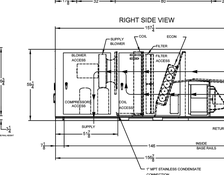
DETAIL B

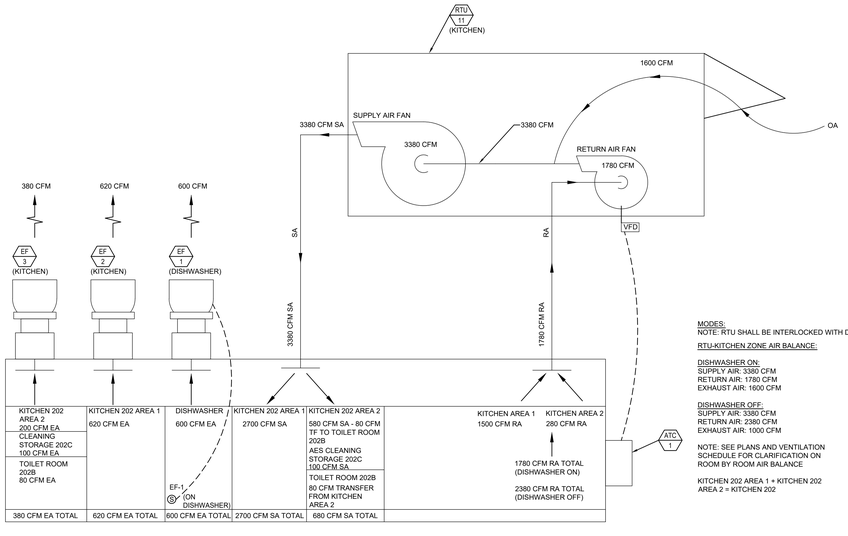
NUMBER OF CONDENSER FANS
16,18 & 20 TON - 2 FANS
25 & 30 TON - 3 FANS



DETAIL C

RNC-00004 REV:E 12/27/22 JWC
NOTE: ALL DIMENSIONS ARE IN INCHES





RTU-KITCHEN SCHEMATIC

NOT TO SCALE

MODES:
NOTE: RTU SHALL BE INTERLOCKED WITH DISHWASHER EXHAUST

RTU-KITCHEN ZONE AIR BALANCE:

DISHWASHER ON:
SUPPLY AIR: 3380 CFM
RETURN AIR: 1780 CFM
EXHAUST AIR: 1600 CFM

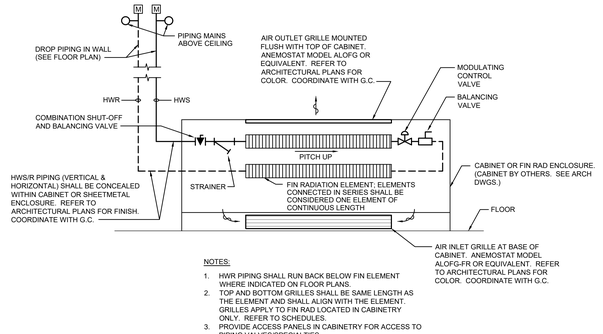
DISHWASHER OFF:
SUPPLY AIR: 3380 CFM
RETURN AIR: 2380 CFM
EXHAUST AIR: 1000 CFM

NOTE: SEE PLANS AND VENTILATION SCHEDULE FOR CLARIFICATION ON ROOM BY ROOM AIR BALANCE

KITCHEN 202 AREA 1 + KITCHEN 202 AREA 2 = KITCHEN 202

RTU-11 (KITCHEN) DETAIL

NOT TO SCALE



NOTES:

1. HWR PIPING SHALL RUN BACK BELOW FIN ELEMENT WHERE INDICATED ON FLOOR PLANS.
2. TOP AND BOTTOM GRILLES SHALL BE SAME LENGTH AS THE ELEMENT AND SHALL ALIGN WITH THE ELEMENT. GRILLES APPLY TO FIN RAD LOCATED IN CABINETRY ONLY. REFER TO SCHEDULES.
3. PROVIDE ACCESS PANELS IN CABINETRY FOR ACCESS TO PIPING VALVES/SPECIALTIES.

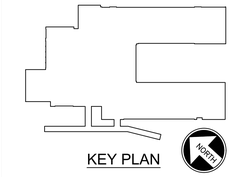
FIN RADIATION DETAIL

NOT TO SCALE

HIGHLAND ASSOCIATES
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REVISION NO:

BID Documents
April 10, 2026



KEY PLAN

AES SED #60-06-01-06-0-008-018

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:
HVAC DETAILS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

DRAWING NO:
BUILDING
AES
M-403

CAD FILE: 4340-AES-M-403.DWG PLOT DATE: 4/9/2026

Air System Sizing Summary for AES FCU-1

Project Name: 2024-240 Owego CIP - Phase 4
Prepared by: Highland Associates
11/19/2025
11:24AM

Air System Information
Air System Name: AES FCU-1
Equipment Class: PKG ROOF
Air System Type: SZCAV
Number of zones: 1
Floor Area: 232.0 ft²
Location: Binghamton, New York

Sizing Calculation Information
Calculation Months: Jan to Dec
Sizing Data: Calculated
Zone CFM Sizing: Sum of space airflow rates
Space CFM Sizing: Individual peak space loads

Central Cooling Coil Sizing Data
Total coil load: 0.5 Tons
Total coil load: 5.9 MBH
Sensible coil load: 5.1 MBH
Coil CFM at Jul 1500: 289 CFM
Max block CFM: 289 CFM
Sum of peak zone CFM: 289 CFM
Sensible heat ratio: 0.862
CFM/Ton: 583.7
ft²/Ton: 468.4
BTU/(hr·ft²): 25.6
Water flow @ 10.0 °F rise: N/A
Load occurs at: Jul 1500
OA DB / WB: 95.0 / 70.0 °F
Entering DB / WB: 73.5 / 62.4 °F
Leaving DB / WB: 56.1 / 55.1 °F
Coil ADP: 54.2 °F
Bypass Factor: 0.100
Resulting RH: 59 %
Design supply temp.: 55.0 °F
Zone T-stat Check: 1 of 1 OK
Max zone temperature deviation: 0.0 °F

Central Heating Coil Sizing Data
Max coil load: 4.3 MBH
Coil CFM at Des Htg: 289 CFM
Max coil CFM: 289 CFM
Water flow @ 20.0 °F drop: 0.43 gpm
Load occurs at: Des Htg
BTU/(hr·ft²): 18.6
Ent. DB / Lvg DB: 60.2 / 74.9 °F

Supply Fan Sizing Data
Actual max CFM: 289 CFM
Standard CFM: 272 CFM
Actual max CFM/ft²: 1.25 CFM/ft²
Fan motor BHP: 0.04 BHP
Fan motor kW: 0.03 kW
Fan static: 0.50 in wg

Outdoor Ventilation Air Data
Design airflow CFM: 30 CFM
CFM/ft²: 0.13 CFM/ft²
CFM/person: 14.95 CFM/person

Air System Sizing Summary for AES FCU-2

Project Name: 2024-240 Owego CIP - Phase 4
Prepared by: Highland Associates
11/19/2025
11:24AM

Air System Information
Air System Name: AES FCU-2
Equipment Class: PKG ROOF
Air System Type: SZCAV
Number of zones: 1
Floor Area: 202.0 ft²
Location: Binghamton, New York

Sizing Calculation Information
Calculation Months: Jan to Dec
Sizing Data: Calculated
Zone CFM Sizing: Sum of space airflow rates
Space CFM Sizing: Individual peak space loads

Central Cooling Coil Sizing Data
Total coil load: 0.5 Tons
Total coil load: 5.7 MBH
Sensible coil load: 5.3 MBH
Coil CFM at Aug 1500: 324 CFM
Max block CFM: 324 CFM
Sum of peak zone CFM: 324 CFM
Sensible heat ratio: 0.927
CFM/Ton: 682.0
ft²/Ton: 425.7
BTU/(hr·ft²): 28.2
Water flow @ 10.0 °F rise: N/A
Load occurs at: Aug 1500
OA DB / WB: 95.0 / 70.0 °F
Entering DB / WB: 73.0 / 62.1 °F
Leaving DB / WB: 56.9 / 55.9 °F
Coil ADP: 55.1 °F
Bypass Factor: 0.100
Resulting RH: 58 %
Design supply temp.: 55.0 °F
Zone T-stat Check: 1 of 1 OK
Max zone temperature deviation: 0.0 °F

Central Heating Coil Sizing Data
Max coil load: 7.9 MBH
Coil CFM at Des Htg: 324 CFM
Max coil CFM: 324 CFM
Water flow @ 20.0 °F drop: 0.80 gpm
Load occurs at: Des Htg
BTU/(hr·ft²): 39.3
Ent. DB / Lvg DB: 60.9 / 85.0 °F

Supply Fan Sizing Data
Actual max CFM: 324 CFM
Standard CFM: 305 CFM
Actual max CFM/ft²: 1.60 CFM/ft²
Fan motor BHP: 0.04 BHP
Fan motor kW: 0.04 kW
Fan static: 0.50 in wg

Outdoor Ventilation Air Data
Design airflow CFM: 21 CFM
CFM/ft²: 0.11 CFM/ft²
CFM/person: 21.40 CFM/person

Air System Sizing Summary for AES RTU-10

Project Name: 2024-240 Owego CIP - Phase 4
Prepared by: Highland Associates
12/19/2025
03:10PM

Air System Information
Air System Name: AES RTU-10
Equipment Class: PKG ROOF
Air System Type: SZCAV
Number of zones: 1
Floor Area: 2065.0 ft²
Location: Binghamton, New York

Sizing Calculation Information
Calculation Months: Jan to Dec
Sizing Data: User-Modified
Zone CFM Sizing: Sum of space airflow rates
Space CFM Sizing: Individual peak space loads

Central Cooling Coil Sizing Data
Total coil load: 17.3 Tons
Total coil load: 207.7 MBH
Sensible coil load: 146.9 MBH
Coil CFM at Jul 1300: 4000 CFM
Max block CFM: 4000 CFM
Sum of peak zone CFM: 4000 CFM
Sensible heat ratio: 0.707
CFM/Ton: 231.1
ft²/Ton: 119.3
BTU/(hr·ft²): 100.6
Water flow @ 10.0 °F rise: N/A
Load occurs at: Jul 1300
OA DB / WB: 93.1 / 69.5 °F
Entering DB / WB: 66.2 / 67.2 °F
Leaving DB / WB: 50.1 / 48.6 °F
Coil ADP: 46.1 °F
Bypass Factor: 0.100
Resulting RH: 52 %
Design supply temp: 55.0 °F
Zone T-stat Check: 1 of 1 OK
Max zone temperature deviation: 0.0 °F

Central Heating Coil Sizing Data
Max coil load: 202.2 MBH
Coil CFM at Des Htg: 4000 CFM
Max coil CFM: 4000 CFM
Water flow @ 20.0 °F drop: 20.23 gpm
Load occurs at: Des Htg
BTU/(hr·ft²): 97.9
Ent. DB / Lvg DB: 26.6 / 76.3 °F

Supply Fan Sizing Data
Actual max CFM: 4000 CFM
Standard CFM: 3770 CFM
Actual max CFM/ft²: 1.94 CFM/ft²
Fan motor BHP: 2.19 BHP
Fan motor kW: 1.74 kW
Fan static: 2.00 in wg

Outdoor Ventilation Air Data
Design airflow CFM: 2400 CFM
CFM/ft²: 1.16 CFM/ft²
CFM/person: 11.65 CFM/person

Air System Sizing Summary for AES RTU-11 (KITCHEN ONLY) CAV

Project Name: 2024-240 Owego CIP - Phase 4
Prepared by: Highland Associates
12/19/2025
03:11PM

Air System Information
Air System Name: AES RTU-11 (KITCHEN ONLY) CAV
Equipment Class: PKG ROOF
Air System Type: SZCAV
Number of zones: 1
Floor Area: 1357.0 ft²
Location: Binghamton, New York

Sizing Calculation Information
Calculation Months: Jan to Dec
Sizing Data: User-Modified
Zone CFM Sizing: Sum of space airflow rates
Space CFM Sizing: Individual peak space loads

Central Cooling Coil Sizing Data
Total coil load: 9.5 Tons
Total coil load: 113.9 MBH
Sensible coil load: 100.9 MBH
Coil CFM at Aug 1500: 3500 CFM
Max block CFM: 3500 CFM
Sum of peak zone CFM: 3500 CFM
Sensible heat ratio: 0.885
CFM/Ton: 368.7
ft²/Ton: 143.0
BTU/(hr·ft²): 83.9
Water flow @ 10.0 °F rise: N/A
Load occurs at: Aug 1500
OA DB / WB: 95.0 / 70.0 °F
Entering DB / WB: 84.7 / 65.8 °F
Leaving DB / WB: 56.4 / 54.7 °F
Coil ADP: 53.3 °F
Bypass Factor: 0.100
Resulting RH: 46 %
Design supply temp.: 55.0 °F
Zone T-stat Check: 1 of 1 OK
Max zone temperature deviation: 0.0 °F

Central Heating Coil Sizing Data
Max coil load: 143.9 MBH
Coil CFM at Des Htg: 3500 CFM
Max coil CFM: 3500 CFM
Water flow @ 20.0 °F drop: 14.40 gpm
Load occurs at: Des Htg
BTU/(hr·ft²): 106.0
Ent. DB / Lvg DB: 37.1 / 77.4 °F

Supply Fan Sizing Data
Actual max CFM: 3500 CFM
Standard CFM: 3299 CFM
Actual max CFM/ft²: 2.58 CFM/ft²
Fan motor BHP: 1.92 BHP
Fan motor kW: 1.52 kW
Fan static: 2.00 in wg

Outdoor Ventilation Air Data
Design airflow CFM: 1600 CFM
CFM/ft²: 1.18 CFM/ft²
CFM/person: 0.00 CFM/person

FC-1 LOAD CALC
SCALE: NOT TO SCALE

FC-2 LOAD CALC
SCALE: NOT TO SCALE

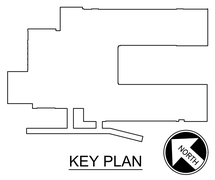
RTU-10 LOAD CALC
SCALE: NOT TO SCALE

RTU-11 LOAD CALC
SCALE: NOT TO SCALE

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www.highlandassociates.com
New York • Pennsylvania

REVISION NO:

BID Documents
April 10, 2026



KEY PLAN

AES SED #60-06-01-06-0-008-018

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:
HVAC HAP LOADS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
M-404

CAD FILE: 4240-AES-M-404.DWG PLOT DATE: 4/9/2026

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

(RTU)

TAG	COOL CFM	HEAT CFM	O/A CFM COOL	O/A CFM HEAT	SUPPLY FAN HP	SUPPLY FAN BHP	SUPPLY FAN ESP	RETURN FAN HP	RETURN FAN BHP	RETURN FAN ESP	HEATING COIL (30% PROPYLENE GLYCOL) OUTPUT MBH	EAT °F	LAT °F	EWT °F	LWT °F	HEAD FT	ROWS	GPM	DX COOLING COIL EAT(°F) DB	EAT(°F) WB	LAT COIL (°F) DB	LAT COIL (°F) WB	TOTAL MBH	SENS MBH	ROWS	FINS/IN	AREA FT²	COMP. QTY	COMP. TYPE	COND. FANS QTY	COND. FANS FLA 1	COND. FANS FLA 2	UNIT ELECTRICAL VOLTS. PHASE	MCA	MOCP	FLA
RTU-10	6000	6000	2400	2400	7.5	5.35	2	5	2.88	0.5	251.4	66.8	105	140	128.9	3.5	4	48	77.0	63.4	52.3	52.1	270.3	159.2	6	12	19.9	2	SCROLL	2	3.4	3.4	208V/3PH	107	125	101
RTU-11	3500	3500	1600	1600	7.5	3.06	2	3	2.54	2	274.8	37.1	105	140	115.8	5.2	4	24	84.1	68.4	50.5	50.3	183.3	124.9	4	14	19.9	2	SCROLL	2	7.4	7.4	208V/3PH	120	125	113

TAG	ENERGY WHEEL SUMMER CFM	O/A	EXH	O/A ENT DB	WB	O/A LVG DB	WB	EXH ENT DB	WB	CAP MBH	EFF. %	WINTER CFM	O/A	EXH	O/A ENT DB	WB	O/A LVG DB	WB	EXH ENT DB	WB	CAP MBH	EFF. %	WEIGHT (LBS.)	EER	FILTERS	REFRIGERANT	REMARKS
RTU-10	2546	2545	95.0	75.0	79.9	65.5	89.7	72.0	78.2	74.6	74.4	2546	2545	-2.0	-3.5	54.5	50.0	19.0	18.9	207.5	74.4	3679	11.76	2" - 30% PLEATED MERV 8	R-454B	RM220A-RN - ERV WHEEL
RTU-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3340	11.17	2" - 30% PLEATED MERV 8	R-454B	-

MATCHLINE 'A'

MATCHLINE 'A'

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

MANUFACTURER / MODEL
AAON / RNA-016-C-A-8-GAB0C-J0SP0:00-0FGAJ-QCB-00000-ABLBJ-EC-000B-00-E0-0-AR0-00-N000-00-000-B00A00-E00FAF-000000B
AAON / RNA-016-C-A-8-GAA0C-J0SS0:00-0FGAJ-H00-BBBBH-00000-EC-000A-00-E0-0-AR0-00-N000-00-000-B00A00-C000AB-000000B

NOTES:
1. ALL UNITS SHALL BE PROVIDED WITH DISCONNECTS.
2. ALL UNITS SHALL BE PROVIDED WITH ECONOMIZER OPERATION.
3. UNITS WITH COOLING SHALL BE PROVIDED WITH MODULATING HOT GAS REHEAT.
4. ALL UNITS SHALL BE PROVIDED WITH VFD'S ON ALL FANS.
5. UNITS WITH COOLING SHALL BE PROVIDED WITH VARIABLE CAPACITY SCROLL COMPRESSORS.
6. IF UNIT WEIGHTS ARE EXCEEDED CONTRACTOR MUST VERIFY WITH STRUCTURAL ENGINEER.
7. HEATING COILS SELECTED USING 140 EWT FOR POSSIBLE FUTURE CONDENSING BOILERS AND LOWER WATER TEMPS. ACTUAL CONDITIONS = 180 EWT.
8. PROVIDE NEW FACTORY ROOF CURB FOR RTU-10 AND RTU-11.

OWEGO VENTILATION RATE TABLE

Zone Identification: Room or Zone	Occupancy Category	Area (sf)	People Outdoor Air Rate Rp (cfm/per)	Area Outdoor Air Rate Ra (cfm/sf)	Occupant Density (#/1000 sf)	Occupancy (# people) Pz	People OA CFM Vpeo	Area OA CFM - Varea	Breathing Zone Outdoor Air Flow Vbz (cfm)	Zone Air Distribution Effectiveness Ez	Zone Outdoor Air Flow Voz (cfm)	Code Required Exhaust Airflow Rate (cfm/sf) or (cfm/fixture)	Total Exhaust Required (cfm)	Design Case - Cooling: Zone Primary Air Flow Vpz (cfm)	Design Case - Cooling: Primary Outdoor Air Fraction Zp = Voz/Vpz	Design Case - Heating: Zone Primary Air Flow Vpz (cfm)	Design Case - Heating: Primary Outdoor Air Fraction Zp = Voz/Vpz	Design Exhaust: Total Exhaust Provided
Standard Case: 2020 Mechanical Code of New York State Verification Rate Procedure																		
AES RTU-11 (KITCHEN ONLY) CAV																		
KITCHEN 202 AREA 1	Kitchen	880	7.5	0.12	0	0.0	0.0	105.6	106	0.8	132	0.7	616	2,700	0.05	2,700	0.05	1,220
KITCHEN 202 AREA 2	Kitchen	285	7.5	0.12	0	0.0	0.0	34.2	34	0.8	43	0.7	200	580	0.07	580	0.07	200
TOILET ROOM 202B	Toilet	54	0	0	0	0.0	0.0	0.0	0	0.8	0	50	0	80	0.00	80	0.00	80
CLEANING STORAGE 202C	General - Storage rooms	138	0	0.12	0	0.0	0.0	16.6	17	0.8	21	0.7	97	100	0.21	100	0.21	100
										RTU-11 MIN OA	**195**			3,380		3,380		1,600
AES RTU-10																		
CAFETERIA 203	Food & Beverage Service - Cafeteria/fast food dining	2,065	7.5	0.18	100	206.5	1548.4	371.6	1920	0.8	2400	0	0	6,000	0.40	6,000	0.40	0
										RTU-10 MIN OA	**2400**							
FCU-1																		
MAINTENANCE OFFICE 201	Office Buildings - Office space	232	5	0.06	5	2.0	10.0	13.9	24	0.8	30	0	0	130	0.23	130	0.23	0
										FCU-1 MIN OA	**30**							
FCU-2																		
KITCHEN STORAGE 202A	Office Buildings - Office space	202	5	0.06	5	1.0	5.1	12.1	17	0.8	21	0	0	160	0.13	160	0.13	0
										FCU-2 MIN OA	**21**							

NOTES:
1. KITCHEN 202 = KITCHEN 202 AREA 1 + KITCHEN 202 AREA 2

MECHANICAL / ELECTRICAL EQUIPMENT CONNECTIONS SCHEDULE

EQUIPMENT / TAG	DISCONNECT FURNISHED BY	DISCONNECT INSTALLED BY	STARTER FURNISHED BY	STARTER INSTALLED BY	NOTES
RTU-10 (CAFETERIA)	M.C.	M.C.	M.C.	M.C.	① ②
RTU-11 (KITCHEN)	M.C.	M.C.	M.C.	M.C.	① ②
ATC-1, ATC-2	M.C.	M.C.	M.C.	M.C.	① ②
EF-1	M.C.	M.C.	M.C.	M.C.	① ②
EF-2	M.C.	M.C.	M.C.	M.C.	① ②
EF-3	M.C.	M.C.	M.C.	M.C.	① ②
FC-1	M.C.	M.C.	M.C.	M.C.	① ②
FC-2	M.C.	M.C.	M.C.	M.C.	① ②
CU-1	M.C.	M.C.	M.C.	M.C.	① ②
CU-2	M.C.	M.C.	M.C.	M.C.	① ②

M/E EQUIPMENT CONNECTIONS SCHEDULE NOTES:

① THE MECHANICAL/ELECTRICAL EQUIPMENT CONNECTIONS SCHEDULE AND ACCOMPANYING NOTES ARE INTENDED TO CLEARLY DEFINE WHICH CONTRACTOR FURNISHES AND INSTALLS STARTERS AND DISCONNECTS AND SHALL BECOME PART OF THE SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER WIRING AND FINAL POWER CONNECTIONS. ALL CONTROL WIRING SHALL BE FURNISHED, INSTALLED AND FINAL CONNECTION BY THE TRADE SUPPLYING THE EQUIPMENT.

② E.C. - ELECTRICAL CONTRACTOR
M.C. - MECHANICAL CONTRACTOR (HVAC)
P.C. - PLUMBING CONTRACTOR
M'FR - MANUFACTURER

CODE MINIMUM VENTILATION COMPLIANCE SCHEDULE

EQUIPMENT / TAG	AREA SERVED	CODE MINUMUM OA CFM	ACTUAL OA CFM	REMARKS
RTU-11	KITCHEN 202	195	1,600	
RTU-10	CAFETERIA 203	2400	2400	
FC-1	MAINTENANCE OFFICE 201	30	30	
FC-2	KITCHEN STORAGE 202A	21	21	

AES GLYCOL PERCENTAGE SCHEDULE

SYSTEM	% PROPYLENE GLYCOL
EXISTING HEATING HOT WATER LOOP	RTU'S → 30% P.G.
	NON RTU'S → 30% P.G.
CHILLED WATER LOOP	N/A → ALL DX

(SAD)

SUPPLY, RETURN, & EXHAUST AIR DIFFUSER SCHEDULE

TAG	NECK SIZE	CFM RANGE	PANEL SIZE	THROW (FEET)	MAX. N.C.	MAX. S.P.	MANUFACTURER & MODEL	TYPE	REMARKS
S-1	6" DIA.	0-100	24x24	1-2-4	<15	.02	ANEMOSTAT EPL	LAY IN T-BAR	STEEL
S-2	8" DIA.	0-175	24x24	2-3-7	<15	.02	ANEMOSTAT EPL	LAY IN T-BAR	STEEL
S-3	12" DIA.	255-400	24x24	8-14	25	.10	ANEMOSTAT DP-TRV	-	STEEL
S-4	14" DIA.	405-500	24x24	6-12	25	.10	ANEMOSTAT DP-TRV	-	STEEL
S-5	16" DIA.	650-790	24x24	7-14	25	.10	ANEMOSTAT DP-TRV	LAY IN T-BAR	STEEL
S-6	21"	1225	47"	12	25	.10	ANEMOSTAT / AR3	.10	ALUMINUM
S-7	24"	1665	54"	14	25	.10	ANEMOSTAT / AR3	.10	ALUMINUM
S-8	18x6	0-400	18x6	20	25	.10	ANEMOSTAT / EJ DRUM LOUVER	.10	ALUMINUM 6" DIA.
S-9	24x6	0-500	24x6	23	25	.10	ANEMOSTAT / EJ DRUM LOUVER	.10	ALUMINUM 6" DIA.
S-10	10x6	130-150	10x6	10	25	.10	ANEMOSTAT / ECO	.10	
S-11	14x8	240-280	14x8	10	25	.10	ANEMOSTAT / 20	.10	STEEL
R-1	22x22	0-1130	24x24	-	<20	.01	ANEMOSTAT GC-5L	LAY IN T-BAR	ALUMINUM, 1/2" SPACING 0° DEFLECTION
R-2	6x6	0-180	8x8	-	<20	.03	ANEMOSTAT GC-5L	LAY IN T-BAR	ALUMINUM, 1/2" SPACING 0° DEFLECTION
R-3	12x12	0-500	14x14	-	<20	.02	ANEMOSTAT / GC-5L	LAY IN T-BAR	ALUMINUM, 1/2" SPACING 0° DEFLECTION
R-4	46x14	0-2100	48x16	-	25	.10	ANEMOSTAT GC-50	.10	ALUMINUM
R-5	34x22	1505-2200	36x24	-	25	.10	ANEMOSTAT GC-50	.10	ALUMINUM
R-6	48x48	0-8000	48x48	-	30	.10	ANEMOSTAT HD30	.10	STEEL
E-1	12x12	0-400	16x16	-	25	.10	ANEMOSTAT GC-5L	LAY IN T-BAR	ALUMINUM
E-2	22x22	0-1800	24x24	-	25	.10	ANEMOSTAT GC-50	.10	ALUMINUM

(FC)

FAN COIL/CONDENSING UNIT SCHEDULE

TAG	NOMINAL COOLING CAPACITY BTUH	NOMINAL HEATING CAPACITY BTUH	AMBIENT TEMP °F.	Dba	AIRFLOW RATE COOLING (CFM)	AIRFLOW RATE HEATING (CFM)	OUTDOOR AIRFLOW (CFM)	EER2	INDOOR UNIT ELEC. DATA VOLTAGE	MCA	MFA	FLA	WEIGHT	MFGR / INDOOR MODEL	REMARKS
FC-1	12,000	13,800	95°F.	40	1,130	1,130	30	13	208 / 1Ø	1.36	15	1.09	52.9 LBS	HITACHI / PPIM-B09UFA1DQ	-13° OUTDOOR HEATING, HEAT PUMP
FC-2	12,000	13,800	95°F.	40	1,130	1,130	21	13	208 / 1Ø	1.36	15	1.09	52.9 LBS	HITACHI / PPIM-B09UFA1DQ	-13° OUTDOOR HEATING, HEAT PUMP

(D)

DAMPER SCHEDULE

TAG	SERVICE	LOCATION	SERVICE	FAN CFM	CFM RANGE	DAMPER SIZE	MFGR / MODEL	DAMPER ACTUATOR	REMARKS
D-1	EF-1	INSIDE (NEW) ROOF CURB	EXHAUST	600	0-600	12"X12"	GREENHECK / VCD-43	24V ELECTRIC	1-2
D-2	EF-2	INSIDE (NEW) ROOF CURB	EXHAUST	620	0-620	12"X12"	GREENHECK / VCD-43	24V ELECTRIC	1-2
D-3	EF-3	INSIDE (NEW) ROOF CURB	EXHAUST	380	0-380	10"X10"	GREENHECK / VCD-43	24V ELECTRIC	1-2

NOTES:
1. END SWITCH
2. STANDARD OPPOSED BLADE DAMPER

(EF)

EXHAUST FAN SCHEDULE

TAG	TYPE	CFM	ESP IN. H₂O	OPERATING HP	MOTOR HP	RPM	SONES	VOLTAGE	FLA	MFR / MODEL	DRIVE	REMARKS
EF-1	UPBLAST	600	1	0.24	1/2	2500	12.0	208V / 1PH	4	GREENHECK / CUE-100HP-VG	DIRECT	1-14
EF-2	UPBLAST	620	0.75	0.15	1/4	1725	8.3	208V / 1PH	2.1	GREENHECK / CUE-099-VG	DIRECT	1-8,10-12,14
EF-3	UPBLAST	380	0.75	0.12	1/6	1725	8.8	208V / 1PH	1.5	GREENHECK / CUE-095-VG	DIRECT	1-8,10-12,15

NOTES:
1. MOTOR - VARI-GREEN EC MOTOR
2. CONTROL - DIAL FOR BALANCING
3. NEW ROOF CURB GPF-19 CAP SIZE - 19 SQUARE
4. UL/CUL 705 LISTED - "POWER VENTILATORS"
5. SWITCH, NEMA-3R, TOGGLE.
6. JUNCTION BOX MOUNTED & WIRED
7. HIGH WIND RATED (+/- 150 PSF RATING)
8. COATED WITH PERMATECTOR, CONCRETE GRAY-RAL 7023, FAN AND ATTACHED ACC
9. NON-STICK COATED WHEEL
10. FASTENER MATERIAL: STAINLESS
11. BIRDSCREEN: STAINLESS STEEL
12. ALUMINUM RUB RING
13. CLEAN-OUT PORT - FACTORY INSTALLED
14. ALUMINUM WHEEL MATERIAL
15. COMPOSITE WHEEL MATERIAL

(CU)

HEAT PUMP CONDENSING UNIT SCHEDULE

OUTDOOR CONDENSING UNIT TAG	MAKE	MODEL	REFRIGERANT	FACTORY CHARGE (LBS)	OUTDOOR UNIT ELEC. DATA VOLTAGE	MCA	MFA	FLA	WEIGHT	REMARKS /ACCESSORIES
CU-1	HITACHI	PAS-09BUFASDQ1	R32	1.98	208 / 1Ø	9.3	15	0.4	52.9 LBS	1, 2,3
CU-2	HITACHI	PAS-09BUFASDQ1	R32	1.98	208 / 1Ø	9.3	15	0.4	52.9 LBS	1, 2,3

NOTES:
1. E.C SHALL PROVIDE INDOOR UNIT AND OUTDOOR CONDENSING UNIT WITH MOTOR STARTER AND DISCONNECT SWITCH.
2. UNIT SHALL BE REAR AIR INLET, FRONT AIR DISCHARGE. PROVIDE CONDENSING UNIT ON PATE MODEL ES EQUIPMENT SUPPORTS.
3. COMPRESSOR MODEL: KSN108D32UFZR

(FR)

(HW) FIN TUBE BASEBOARD RADIATION SCHEDULE

TAG	LENGTH	TUBE	ROWS	BTU/HR/FT.	EWT	AWT	GPM	EAT	FINS PER FT	MANU. / MODEL	REMARKS
FR-1	40'-0"	3/4"	2	650	140	130	2.6	65	48	RITTLING / FS3-½(C-2)x4x48	WALL MOUNTED. SLOPED TOP. NOTE 2

NOTES:
1. ALL FIN RAD SELECTED USING 140 EWT FOR POSSIBLE FUTURE CONDENSING BOILERS AND LOWER WATER TEMPS. ACTUAL CONDITIONS = 180 EWT.
2. PROVIDE ALL FS3 MODEL FIN RAD WITH WALL TO WALL SLOPED TOP ENCLOSURE, END CAPS AND FILLER PIECES TO PRODUCE FINISHED APPEARANCE. EXPOSED PIPING OR ELEMENTS IS NOT ACCEPTABLE

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REVISION NO:

BID Documents
April 10, 2026

KEY PLAN

AES SED #60-06-01-06-0-008-018

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PROJECT TITLE:
Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:
HVAC SCHEDULES

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE: 04/10/2026	PROJECT NO: 2024-240P

BUILDING: AES

DRAWING NO: M-500

CAD FILE: 4240-AES-M-500.DWG PLOT DATE: 4/10/2026

LIGHTING

- INDICATES FIXTURE TYPE
- 2'X2' RECESSED LINEAR LED LIGHTING FIXTURE
  - LOWERCASE LETTER INDICATES CONTROL ZONE
  - 'NL' FIXTURE INDICATES NIGHTLIGHT FIXTURE
  - HALF SHADING INDICATED BEING FED OFF EMERGENCY GENERATOR
- 2'X4' LINEAR LED LIGHTING FIXTURE
- 1'X4' LINEAR LED LIGHTING FIXTURE
- WALL MOUNTED EXIT SIGN. BATTERY UNIT TO BE CONNECTED TO CIRCUIT AHEAD OF SWITCHING. MOUNTED 2" ABOVE DOOR FRAME.
- CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH.
- CEILING MOUNTED DUAL TECHNOLOGY DAYLIGHT SENSOR WITH MANUAL OVERRIDE SWITCH.
- S^X WALL MOUNTED SWITCH. MOUNTED AT 42" A.F.F. U.O.N.
  - 'D' INDICATES SWITCH WITH DIMMER
  - '3' INDICATES A 3 WAY WALL SWITCH
  - LOWERCASE LETTER DESIGNATES CONTROL ZONE
  - 'VC' VACANCY SENSOR

POWER

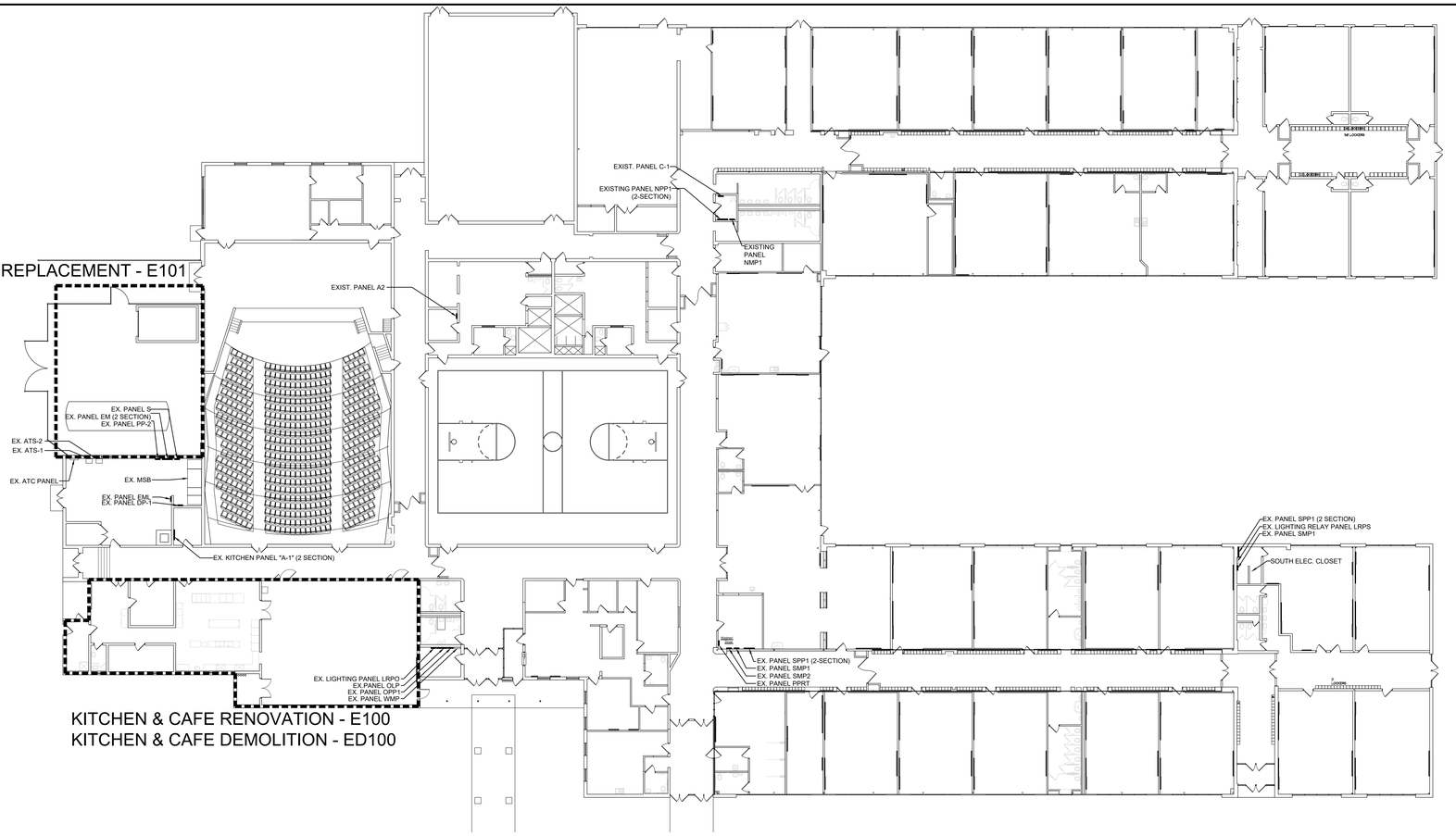
- Y-X BRANCH CIRCUIT WIRING CONCEALED IN WALL OR ABOVE CEILING. 'Y' IS PANEL, 'X' IS CIRCUIT (POLE) AT PANEL BOARD.
- JUNCTION BOX MOUNTED FLUSH TO WALL OR WITHIN CEILING
- 208/120V BRANCH CIRCUIT PANELBOARD
- WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE MOUNTED RECESSED 18" A.F.F. TO CENTERLINE (TYP. FOR ALL RECEPTACLES UNLESS OTHERWISE NOTED.)
  - 'GFI' INDICATES GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLE
  - SHADING INDICATES MOUNTING AT COUNTER HEIGHT (+42" TO CENTERLINE, U.O.N.)
  - 'WP' INDICATES WEATHERPROOF WHILE-IN-USE COVER.
- WALL OUTLET BOX AND 20 AMP QUAD RECEPTACLE MOUNTED RECESSED 18" A.F.F. TO CENTERLINE (TYP. FOR ALL RECEPTACLES UNLESS OTHERWISE NOTED.)
- FUSED DISCONNECT SWITCH. SIZE AS NOTED.
- DISCONNECT SWITCH. SIZE AS NOTED.
- S_M MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOADS (UNLESS OTHERWISE NOTED.) SIZED TO PROTECT EQUIPMENT SERVED.
- XXX / XX MECHANICAL EQUIPMENT TAG
- (M) MOTOR CONNECTION NUMBER INDICATES HORSEPOWER
- SPECIALTY RECEPTACLE, AS INDICATED ON DRAWINGS

ONE-LINE LEGEND

- SINGLE SECTION POWER PANEL
- POWER TRANSFORMER
- CIRCUIT BREAKER
- MOTOR, SIZE AS INDICATED
- MAIN TRANSFER SWITCH, LABELED AUTOMATIC OR MANUAL.
- FUSE AND SWITCH

SPECIAL SYSTEMS

- AV WALL MOUNTED MULTI-TAP (15/30/75/110 CD) ADA COMPLIANT FIRE ALARM SPEAKER/VISUAL UNIT WITH VOICE NOTIFICATION CAPABILITIES (MOUNT 80" A.F.F. TO BOTTOM)
- V WALL MOUNTED MULTI-TAP (15/30/75/110 CD) ADA COMPLIANT FIRE ALARM VISUAL ONLY UNIT. (MOUNT 80" A.F.F. TO BOTTOM)
- S CEILING MOUNTED SMOKE DETECTOR
- D HVAC SYSTEM DUCT DETECTOR
  - "RA" INDICATES RETURN AIR
  - "SA" SUPPLY AIR
- R DUCT DETECTOR REMOTE INDICATOR
- H CEILING MOUNTED HEAT DETECTOR
- WAP CEILING MOUNTED WIRELESS ACCESS POINT
- CLOCK
- HDMI PORT TO TV, SMARTBOARD OR PROJECTOR PORT
- PHONE / DATA JACK



ELECTRICAL COMPOSITE PLAN

SCALE: 1/16" = 1'0"

LIGHTING FIXTURE SCHEDULE - AES

TYPE	MANUFACTURER	CATALOG NO.	LAMPS	VOLTS	DESCRIPTION
A	AXIS BEAM 4	TB4DILED-600-80-40-FL-S(32') FINISH()-UNV-DP-1-TB	LED 600 LUMENS/FT 7.1 W/FT	UNV	4" X 32' LINEAR SYSTEM FIXTURE FLUSH WITH NEW CEILING. 80CRI, 4000K CCT, 0-10 VOLT DIMMING. ENTIRE SYSTEM BACKED UP ON EMERGENCY GENERATOR.
B	AXIS SKETCH	SK4PDI-CIR(24")-400-300-80-40 SO-SO-120-DP-1-CTS(X)	LED 400D+400I LUMENS/FT 8.3 W/FT	UNV	4' DIAMETER RING FIXTURE. PENDANT MOUNTED FROM ROOF DECK AT 9 A.F.F. FIXTURE IS INDIRECT / DIRECT WITH 80CRI, 4000K CCT, 0-10 VOLT DIMMING.
C0	COLUMBIA VERSIFY	VSY24-40-XWHE-EDU	LED 2190 LUMENS 17.7 W	UNV	2'X4' TROFFER FIXTURE. 80CRI, 4000K CCT, 0-10 VOLT DIMMING. DAMP LOCATION RATED. COORDINATE LIGHTING FIXTURE FINISH WITH ARCHITECT.
C1	COLUMBIA VERSIFY	VSY24-40-HLHE-EDU	LED 5650 LUMENS 38.5W	UNV	2'X4' TROFFER FIXTURE.80CRI, 4000K CCT, 0-10 VOLT DIMMING. DAMP LOCATION RATED. COORDINATE LIGHTING FIXTURE FINISH WITH ARCHITECT.
D	EXO SLING	SG2-80-4K7-FT-UNV-DBT-PCU	LED 8079 LUMENS 80W	UNV	11.14" x 9.52" WALL MOUNTED EXTERIOR LIGHTING FIXTURE WITH PHOTOCONTROLLER. FIXTURE TO BE MOUNTED AT 18FT A.F.F. COORDINATE LIGHTING FIXTURE FINISH WITH ARCHITECT.
	WILLIAMS EMER/LED	EMER/LED-WHT-SDT-D	LED 1.6W	UNV	EMERGENCY TWIN HEAD FIXTURE, 90 MINUTE EMERGENCY OPERATION, SELF & STAFF TESTING SYSTEM.
	WILLIAMS EXIT	EXIT-G-EM-WHT-SDT-D	LED 2.7W	UNV	EMERGENCY EXIT SIGNAGE, 90 MINUTE EMERGENCY OPERATION RED LETTERING, SELF & STAFF DIAGNOSTIC TESTING.

LIGHTING SCHEDULE NOTES:

1. SEE DRAWING OFA-E-000 FOR OWEGO FREE ACADEMY (OFA) LIGHTING FIXTURES.
2. E.C. TO VERIFY ALL FIXTURE FINISHES WITH ARCHITECT.
3. PROVIDE CHEVRONS FOR EXIST SIGNS AS INDICATED ON DRAWINGS.
4. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.

MECHANICAL / ELECTRICAL EQUIPMENT CONNECTIONS SCHEDULE

EQUIPMENT / TAG	DISCONNECT		STARTER		NOTES
	FURNISHED BY	INSTALLED BY	FURNISHED BY	INSTALLED BY	
RTU-10 (CAFETERIA)	M.C.	M.C.	M.C.	M.C.	1 2
RTU-11 (KITCHEN)	M.C.	M.C.	M.C.	M.C.	1 2
ATC-1, ATC-2	M.C.	M.C.	M.C.	M.C.	1 2
EF-1	M.C.	M.C.	M.C.	M.C.	1 2
EF-2	M.C.	M.C.	M.C.	M.C.	1 2
EF-3	M.C.	M.C.	M.C.	M.C.	1 2
FC-1	M.C.	M.C.	M.C.	M.C.	1 2
FC-2	M.C.	M.C.	M.C.	M.C.	1 2
CU-1	M.C.	M.C.	M.C.	M.C.	1 2
CU-2	M.C.	M.C.	M.C.	M.C.	1 2

M/E EQUIPMENT CONNECTIONS SCHEDULE NOTES:

1. THE MECHANICAL/ELECTRICAL EQUIPMENT CONNECTIONS SCHEDULE AND ACCOMPANYING NOTES ARE INTENDED TO CLEARLY DEFINE WHICH CONTRACTOR FURNISHES AND INSTALLS STARTERS AND DISCONNECTS AND SHALL BECOME PART OF THE SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER WIRING AND FINAL POWER CONNECTIONS. ALL CONTROL WIRING SHALL BE FURNISHED, INSTALLED AND FINAL CONNECTION BY THE TRADE SUPPLYING THE EQUIPMENT.
2. E.C. - ELECTRICAL CONTRACTOR
   M.C. - MECHANICAL CONTRACTOR (HVAC)
   P.C. - PLUMBING CONTRACTOR
   MFR - MANUFACTURER

COMMON ABBREVIATIONS

AMP / A.	AMPERE	INSUL.	CO. INSULATED COPPER
AMP.	ALTERNATING CURRENT	JB	JUNCTION BOX
ACT.	ACOUTICAL TILE	KW	KILOWATT
A/C	AIR CONDITIONING	KVA	KILOVOLT-AMPERE
AFF	ABOVE FINISHED FLOOR	LG.	LENGTH
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET
A.I.C	AMPERES INTERRUPTING CAPACITY	M.C.	MECHANICAL CONTRACTOR
A.T.C.	AUTOMATIC TEMPERATURE CONTROL	MDS	MAIN DISTRIBUITION SWITCHBOARD
A.T.S.	AUTOMATIC TRANSFER SWITCH	MDP	MAIN DITRIBUTION PANEL
AUX.	AUXILIARY	MANUF.	MANUFACTURER
B.F.C	BELOW FINISHED CEILING	MAX.	MAXIMUM
BLDG.	BUILDING	MCB	MAIN CIRCUIT BREAKER
BKR.	BREAKER	MECH.	MECHANICAL
BSMT.	BASEMENT	KCMIL	THOUSAND CIRCULAR MILLS
.C.	CENTIGRADE DEGREES	MTD	MOUNTED
CLG.	CEILING	MIN	MINIMUM
CKT.	CIRCUIT	MLO	MAIN LUGS ONLY
CB.	CIRCUIT BREAKER	MO	MOTOR OPERATED
COL.	COLUMN	N.	NETURAL
CCTV	CLOSED CIRCUIT TELEVISION	NEC	NATIONAL ELECTRICAL CODE
C.	CONDUIT	NEMA ASSOCIATION	NATIONAL ELECTRICAL MANUFACTURERS
CONDR.	CONDUCTOR	NIC	NOT IN CONTRACT
CONTR.	CONTRACTOR	NTS	NOT TO SCALE
CU	COPPER	NUM/ #	NUMBER
DEMARC.	DEMARCATION	%	PERCENT
DISC	DISCONNECT SWITCH	~/ PH / Ø	PHASE
DMSC	DUAL MODE SYSTEM CONTROLLER	PB	PULLBOX
DN	DOWN	PH	PHASE
EA	EACH	PNL	PANEL
E.F.	EXHAUST FAN	P.C.	PLUMBING CONTRACTOR
ELEC.	CL. ELECTRICAL CLOSET	NO.	PRIMARY
ELEC	ELECTRICAL	REQ'D	REQUIRED
E.C.	ELECTRICAL CONTRACTOR	RGS	RIGID GALVANIZED STEEL CONDUIT
ELEV.	/ EL. ELEVATION / ELEVATOR	SECT	SECTION
E.M.A.	ELECTRICAL METALLIC TUBING	SEC	SECONDARY
EPO	EMERGENCY POWER OFF	SERV	SERVICE
EQUIP.	EQUIPMENT	S.F.A.	SQUARE FEET
FDS	FUSED DISCONNECT	SW.G.	SWITCH
FT.	FEET	SWBD	SWITCHBOARD
FL.	FLOOR	SN	SOLID NEUTRAL
FLA.	FULL LOAD AMPERES	SURF	SURFACE
GALV.	GALVANIZED	TELECOMM	TELECOMMUNICATIONS
G.C.	GENERAL CONTRACTOR	TH	THICK
GEN.	GENERATOR	TYP	TYPICAL
G.F.I.	GROUND FAULT INTERRUPTER	UG	UNDERGROUND
GRS	GALVANIZED RIGID STEEL	UON	UNLESS UNDERWISE NOTED
HP	HORSEPOWER	V	VOLTAGE / VOLTS
HZ	HERTZ	WP	WEATHERPROOF
IMC	INTERMEDIATE CONDUIT	W/	WITH
		W/O	WITHOUT
		XFMR	TRANSFORMER

COORDINATION NOTE:

COORDINATION - IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION CONTRACTORS TO COORDINATE THEIR WORK. THE HVAC CONTRACTOR SHALL TAKE THE LEAD IN THE COORDINATION EFFORT AND PRODUCE THE COORDINATION DRAWINGS. COORDINATION DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE ARCHITECT PRIOR TO STARTING ANY WORK. THE PURPOSE OF THESE DRAWINGS IS TO COORDINATE THE LOCATIONS OF ALL PIPING, DUCTWORK, AND ELECTRICAL EQUIPMENT. SPECIAL ATTENTION IS CALLED TO ARTICLE 110-26 (F) OF THE NATIONAL ELECTRIC CODE. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6FT ABOVE THE EQUIPMENT OR TO STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE. THIS COORDINATION IS REQUIRED FOR ALL PHASES OF THIS PROJECT.

COORDINATION NOTE:

COORDINATION - IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW ALL ARCHITECTURAL PLANS FOR FULL UNDERSTANDING OF THE SCOPE OF WORK. ELECTRICAL WORK NOTED ON ARCHITECTURAL DRAWINGS IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK PREFORMED SHALL CONFORM TO THE 2023 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC)
2. ALL WIRING, UNLESS OTHERWISE NOTED (U.O.N.) ON DRAWINGS, SHALL BE TYPE "THHN" MINIMUM #12 AWG. ALL WIRING SHALL BE COPPER CONDUCTORS. ALUMINUM AND ALUMINUM ALLY CONDUCTORS WILL NOT BE ACCEPTED.
3. ALL BRANCH CIRCUIT WIRING SHALL UTILIZE AT A MINIMUM ½" EMT CONDUIT
4. ELECTRICAL CONTRACTOR (E.C) SHALL IDENTIFY ALL JUNCTION AND PULLBOXES ABOVE CEILING WITH THE PANELBOARD AND BRANCH CIRCUIT NUMBER MARKED ON THE COVERPLATE. PROVIDE ENGRAVED BAKELITE NAMEPLATES (1-3/4" X 3-1/2" WITH ½" LETTERS FOR PANELS, MOTOR SAFETY DISCONNECTS AND CONTROL STATIONS. A NEW TYPEWRITTEN DIRECTORY SHALL BE PROVIDED AND PLACED AT ALL PANELBOARDS WHICH HAVE BEEN AFFECTED BY THE ELECTRICAL CONTRACT SCOPE.
5. ALL THE CIRCUITING SHOWN IS DIAGRAMMATICAL. THE CONTRACTOR SHALL PROVIDE JUNCTION AND PULLBOXES AS REQUIRED BY THE NEC. ALL CONDUITS SHALL BE SIZED IN ACCORDANCE WITH THE NEC UNLESS SHOWN LARGER ON DRAWINGS, HOWEVER NO CONDUIT SHALL BE LESS THAN ½" FOR CONTROLS AND ¾" FOR POWER.
6. ALL CONDUIT EXPOSED TO THE WEATHER SHALL BE STANDARD WALL RIGID GALVANIZED STEEL CONDUIT U.O.N.
7. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL ONLY. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT AND DEVICES.
8. IT WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE FOR TEMPORARY POWER AND LIGHTING FOR ALL WORK AREAS FOR ALL TRADES AS WELL AS TO KEEP A SAFE AND NEAT WORKPLACE.
9. A GROUNDING CONDUCTOR MUST BE PROVIDED IN ALL BRANCH CIRCUITS AND FEEDER CONDUITS. ALL GROUND CONDUCTORS SHALL BE AS REQUIRED BY NEC ARTICLE 250.
10. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED DURING THE CONSTRUCTION OF HIS WORK. ANY AND ALL REPAIRS AND/OR REPLACEMENTS SHALL MEET THE REQUIREMENTS OF THE ARCHITECT / ENGINEER.
11. IT IS THE INTENT OF THE ELECTRICAL DRAWINGS TO PROVIDE THE CONTRACTOR WITH SUFFICIENT INFORMATION IN ORDER TO PROVIDE AN INSTALLATION COMPLETE IN EVERY RESPECT. THE DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND DO NOT SHOW EVERY CONNECTION OR INSTALLATION IN DETAIL OR ITS EXACT LOCATION. CONTRACTOR SHALL CAREFULLY INVESTIGATE, COORDINATE WITH OTHER TRADES, AND VERIFY ALL FIELD CONDITIONS AND ACTUAL LOCATIONS OF ALL ITEMS SHOWN ON DRAWINGS PRIOR TO COMMENCING ANY WORK. SHOULD THE DRAWINGS DISAGREE WITH ACTUAL CONDITIONS CONTRACTOR SHALL BRING UP IT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER TO IDENTIFY DISCREPANCIES AND/OR CONFLICTS.
12. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER ACCORDING TO THE NATIONAL ELECTRICAL CODE (NEC), THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY THE ENGINEER/ARCHITECT PRIOR TO PROJECT COMPLETION.
13. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT AND/OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
14. ALL EXTERIOR BUILDING EQUIPMENT TO BE WEATHERPROOF NEMA 3R MINIMUM UNLESS OTHERWISE NOTED.
15. WHERE THE CONTRACTOR COMBINES MULTIPLE CIRCUITS IN ONE CONDUIT, THEY SHALL INSTALL ALL HOMERUN BRANCH AND FEEDER WIRING IN ACCORDANCE WITH NEC 310 AND NEC CHAPTER 9, REGARDING DERATING OF CONDUCTOR AMPACITIES. ALL INDIVIDUAL CIRCUITS COMBINED WITHIN COMMON CONDUIT SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTORS. SHARING OF NEUTRAL CONDUCTORS BY MULTIPLE CIRCUITS IS NOT PERMITTED.
16. EMPTY CONDUITS FOR COMMUNICATION CABLE TV, ETC. SHALL BE PROVIDED WITH A CONDUIT PULLING LINE. LINE SHALL BE RATED 130LBS.
17. RECEPTACLES SHALL BE MOUNTED VERTICALLY UNLESS OTHERWISE INDICATED. MOUNTING HEIGHT FOR RECEPTACLES SHALL BE 18" A.F.F. TO CENTER UNLESS OTHERWISE INDICATED.
18. DO NOT SCALE THE ELECTRICAL DRAWINGS, REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR THE EXACT LOCATION OF EQUIPMENT AND DEVICES.
19. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY NEC ARTICLE 430. MAXIMUM MOUNTING HEIGHT SHALL BE 5'6" TO TO CENTER OF HANDLE.
20. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABORATORY (UL) LABELS WHERE APPLICABLE.
21. ALL BREAKERS SHALL BE NEW, PROVIDE FULL-SIZE BREAKERS.
22. ALL TWO OR THREE POLE BREAKERS SHALL BE COMMON TRIP. TIE HANDLES OR TANDEMS WILL ARE NOT PERMITTED.
23. ALL FUSES, UNLESS NOTED ON DRAWING, SHALL BE CURRENT LIMITING FUSES (C.L.) RATED FOR 200,000 A.I.C.
24. CONNECTION TO MOTOR TERMINAL BOXES, SOLENOIDS, AND ANY OTHER DEVICES HAVING ADJUSTABLE MOUNTING FACILITIES OR WHICH ARE SUBJECT TO VIBRATION SHALL BE MADE IN LIQUID TIGHT FLEXIBLE METAL CONDUIT WHEREVER A FLEXIBLE CONDUIT IS EMPLOYED.
25. THE DIRECTION OF ROTATION OF ALL MOTORS SHALL BE VERIFIED. BEFORE TESTING FOR ROTATION ALL COUPLINGS SHALL BE DISCONNECTED TO PREVENT DAMAGE TO DRIVEN EQUIPMENT.
26. ALL RECEPTACLES LOCATED PER NEC SECTION 210.8 SHALL BE GFCI TYPE.
27. ABOVE CEILING JUNCTION BOXES/PULLBOXES SHALL BE INSTALLED WITH THE BOX OPENING FACING DOWN.
28. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING: ALL JUNCTION, METAL OR NON-METALLIC CONDUIT, WIRING AS REQUIRED; OUTLETS WITH COVERS, SWITCHES; OUTLETS WITH COVERS, SWITCHES, CONNECTORS, CONTROLS AND OTHER ACCESSORIES AS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL ELECTRICAL EQUIPMENT SHOWN FOR A COMPLETE AND FUNCTIONAL OPERATION MEETING ALL APPLICABLE CODES AND ORDINANCES.
29. NO PART OF ANY JUNCTION BOX/PULLBOX SHALL BE INSTALLED OVER A LIGHT FIXTURE.
30. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING, FOR COMPLETE ELECTRICAL SCOPE OF WORK.
31. THE CONTRACTOR SHALL CLEAN UP THE CONSTRUCTION SITE AT THE END OF EACH WORKING DAY AND REMOVE ALL TRASH AND DEBRIS CREATED BY HIS TRADE FROM THE PREMISES. THE CONTRACTOR SHALL NOT ALLOW ADJACENT AREAS TO BECOME DUSTY, DIRTY, OR CLUTTERED AS A RESULT OF THE CONSTRICTION OPERATION.
32. THE LISTING OF PRODUCT MANUFACTURERS, MATERIALS AND METHODS ARE THE BASIS OF DESIGN AND ARE INTENDED TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER SHALL BE SOLE JUDGE OF QUALITY AND EQUIVALENCE OF EQUIPMENT, MATERIALS AND METHODS. WHERE SUBSTITUTED OR ALTERNATIVE EQUIPMENT IS PROPOSED ON THE PROJECT BEFORE BIDDING, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT THE EQUIPMENT IS PROPOSED ON THE PROJECT BEFORE BIDDING, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE EQUIPMENT WILL FIT THE SPACE AVAILABLE, INCLUDING ALL REQUIRED CODE AND MAINTENANCE CLEARANCES AND TO COORDINATE ALL EQUIPMENT REQUIREMENTS WITH OTHER CONTRACTORS.

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PROJECT TITLE:

Owego Apalachin School District Phase 4
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SEALS:

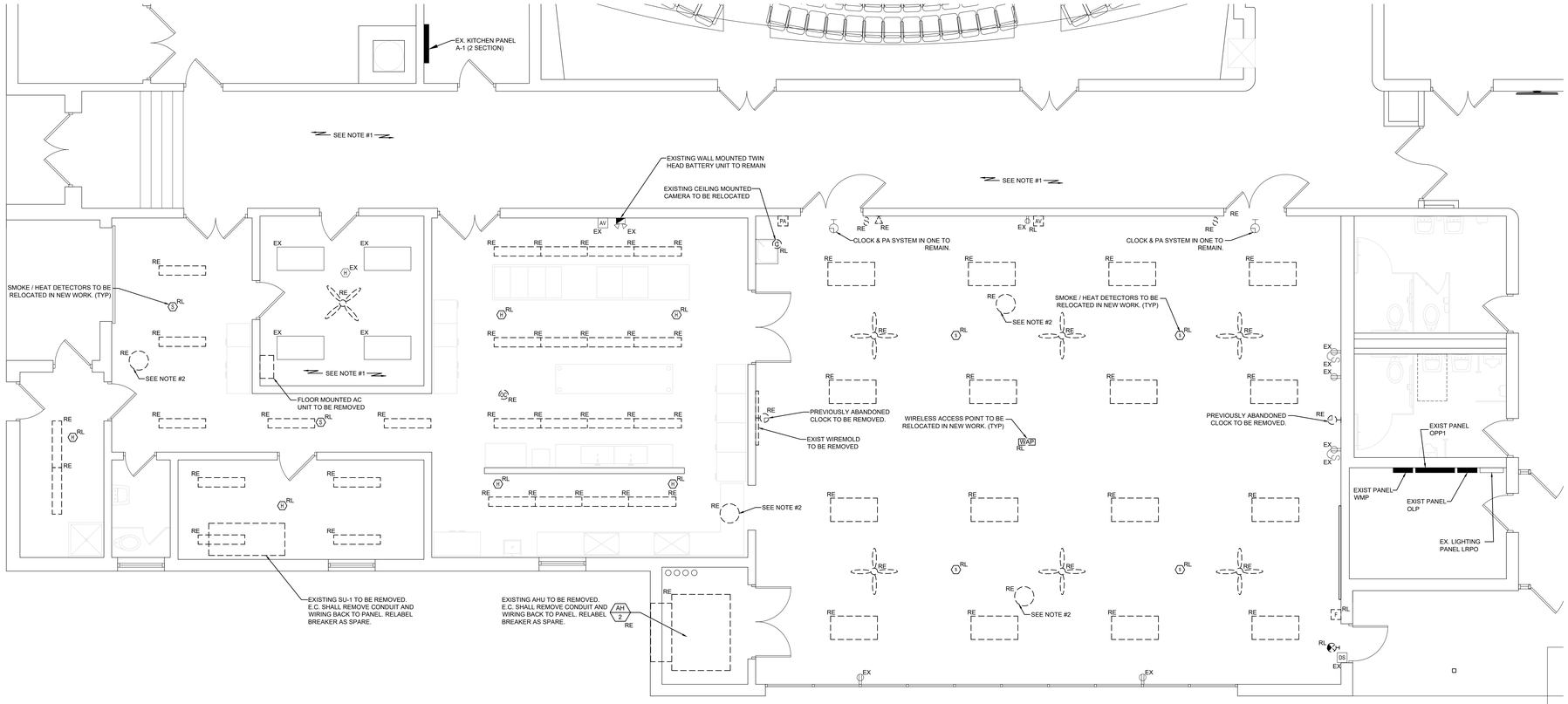
DRAWING TITLE:
ELECTRICAL COMPOSITE PLAN & LEGEND

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
E-001

CAD FILE: 4240-AES-E-001.DWG PLOT DATE: 4/10/2026



DEMOLITION KEY
EX - EXISTING TO REMAIN

RE - EXISTING TO BE REMOVED

RL - EXISTING TO BE RELOCATED

ELECTRICAL POWER & SYSTEMS DEMOLITION PLAN - KITCHEN & CAFE

SCALE: 1/4" = 1'0"

NOTES:
1. E.C. SHALL TEMPORARILY REMOVE LIGHT FIXTURES, SMOKE DETECTORS, CEILING MOUNTED LIGHTING CONTROLS & ANY OTHER ELECTRICAL DEVICE AS REQUIRED FOR M.C.'S REMOVAL/INSTALLATION OF HVAC EQUIPMENT AND DUCTWORK. E.C. SHALL REINSTALL DEVICES INTO SAME LOCATION.

2. EXISTING E.F. ON ROOF TO BE REMOVED. E.C. SHALL REMOVE CONDUIT AND WIRE BACK TO PANEL AND RELABEL BREAKER AS SPARE.

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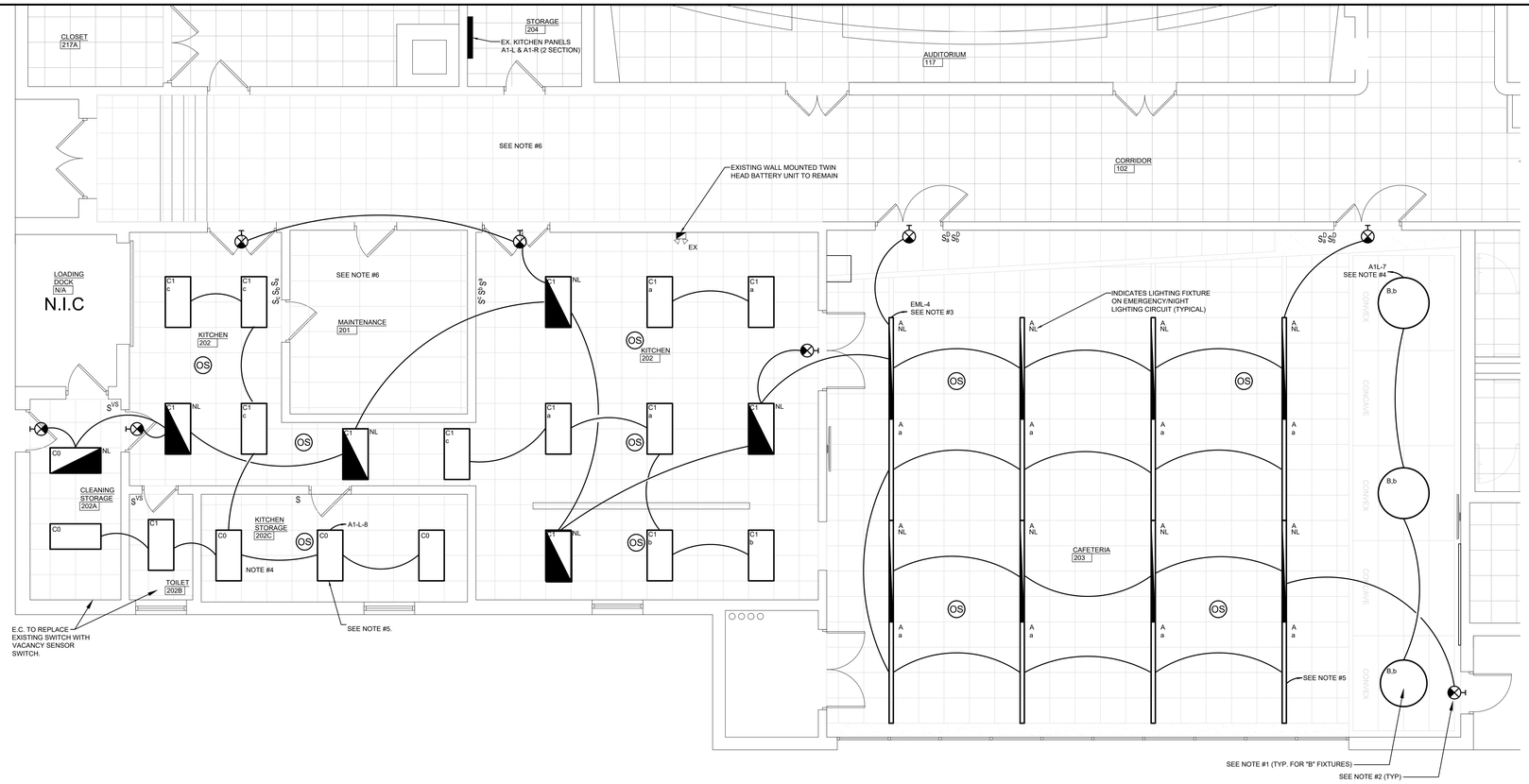
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DRAWING TITLE:
ELECTRICAL
DEMOLITION PLAN

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MLT / TBH	LKN
DATE:	PROJECT NO:
04/10/2026	2024-240P

DRAWING NO:
BUILDING
AES
ED-100

CAD FILE: 4240-AES-ED-100.DWG PLOT DATE: 4/10/2026

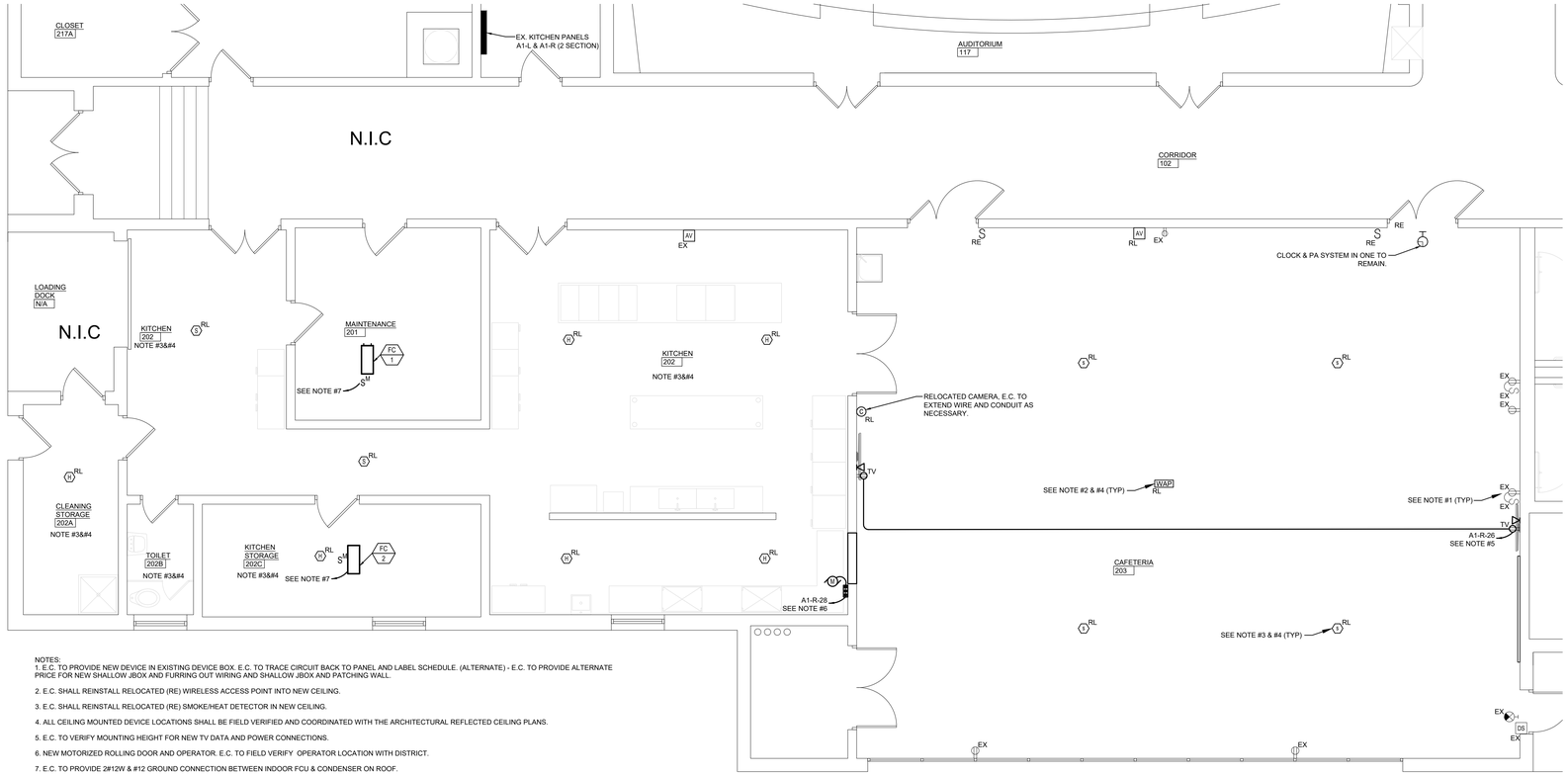


ELECTRICAL LIGHTING RENOVATION PLAN - KITCHEN & CAFE

SCALE: 1/4" = 1'0"

NOTES:

1. REMOTE MOUNT DRIVER TO UNDERSIDE OF DECK. MOUNT FIXTURE CANOPY TO PERFORATED METAL CEILING AND ADJUST CABLE LENGTH TO LEVEL FIXTURE. REFER TO A-300 FOR ELEVATION. TYPICAL OF 3.
2. E.C. SHALL CONNECT NEW EMERGENCY SIGNS TO EMERGENCY CIRCUIT, AHEAD OF SWITCHING.
3. E.C. SHALL PROVIDE NEW EMERGENCY/NIGHT LIGHTING CIRCUIT PANEL EML LOCATED IN THE BOILER ROOM.
4. E.C. SHALL REPLACE EXISTING SWITCHES WITHIN ROOM WITH NEW SWITCHES.
5. E.C. TO RECONNECT NON-EMERGENCY FIXTURES TO CIRCUIT THAT PREVIOUSLY SERVED SPACE.
6. E.C. SHALL REINSTALL ANY DEVICES REMOVED FOR HVAC INSTALLATION.



NOTES:

1. E.C. TO PROVIDE NEW DEVICE IN EXISTING DEVICE BOX. E.C. TO TRACE CIRCUIT BACK TO PANEL AND LABEL SCHEDULE. (ALTERNATE) - E.C. TO PROVIDE ALTERNATE PRICE FOR NEW SHALLOW JBOX AND FURRING OUT WIRING AND SHALLOW JBOX AND PATCHING WALL.
2. E.C. SHALL REINSTALL RELOCATED (RE) WIRELESS ACCESS POINT INTO NEW CEILING.
3. E.C. SHALL REINSTALL RELOCATED (RE) SMOKE/HEAT DETECTOR IN NEW CEILING.
4. ALL CEILING MOUNTED DEVICE LOCATIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
5. E.C. TO VERIFY MOUNTING HEIGHT FOR NEW TV DATA AND POWER CONNECTIONS.
6. NEW MOTORIZED ROLLING DOOR AND OPERATOR. E.C. TO FIELD VERIFY OPERATOR LOCATION WITH DISTRICT.
7. E.C. TO PROVIDE 2#12W & #12 GROUND CONNECTION BETWEEN INDOOR FCU & CONDENSER ON ROOF.

ELECTRICAL POWER & SYSTEMS RENOVATION PLAN - KITCHEN & CAFE

SCALE: 1/4" = 1'0"

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SEALS:

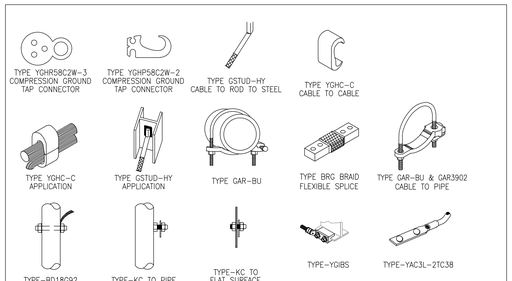
DRAWING TITLE:
ELECTRICAL PLAN
KITCHEN & CAFE

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MLT / TBH	LKN
DATE:	PROJECT NO:
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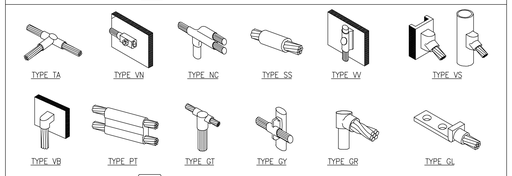
BUILDING
AES

DRAWING NO:
E-100

CAD FILE: 4240-AES-E-100.DWG PLOT DATE: 4/10/2026



1 G1 BURNDY MECHANICAL GROUNDING DETAILS
SCALE: NOT TO SCALE

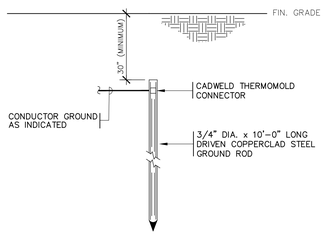


2 G1 BURNDY CADWELD GROUNDING DETAILS
SCALE: NOT TO SCALE

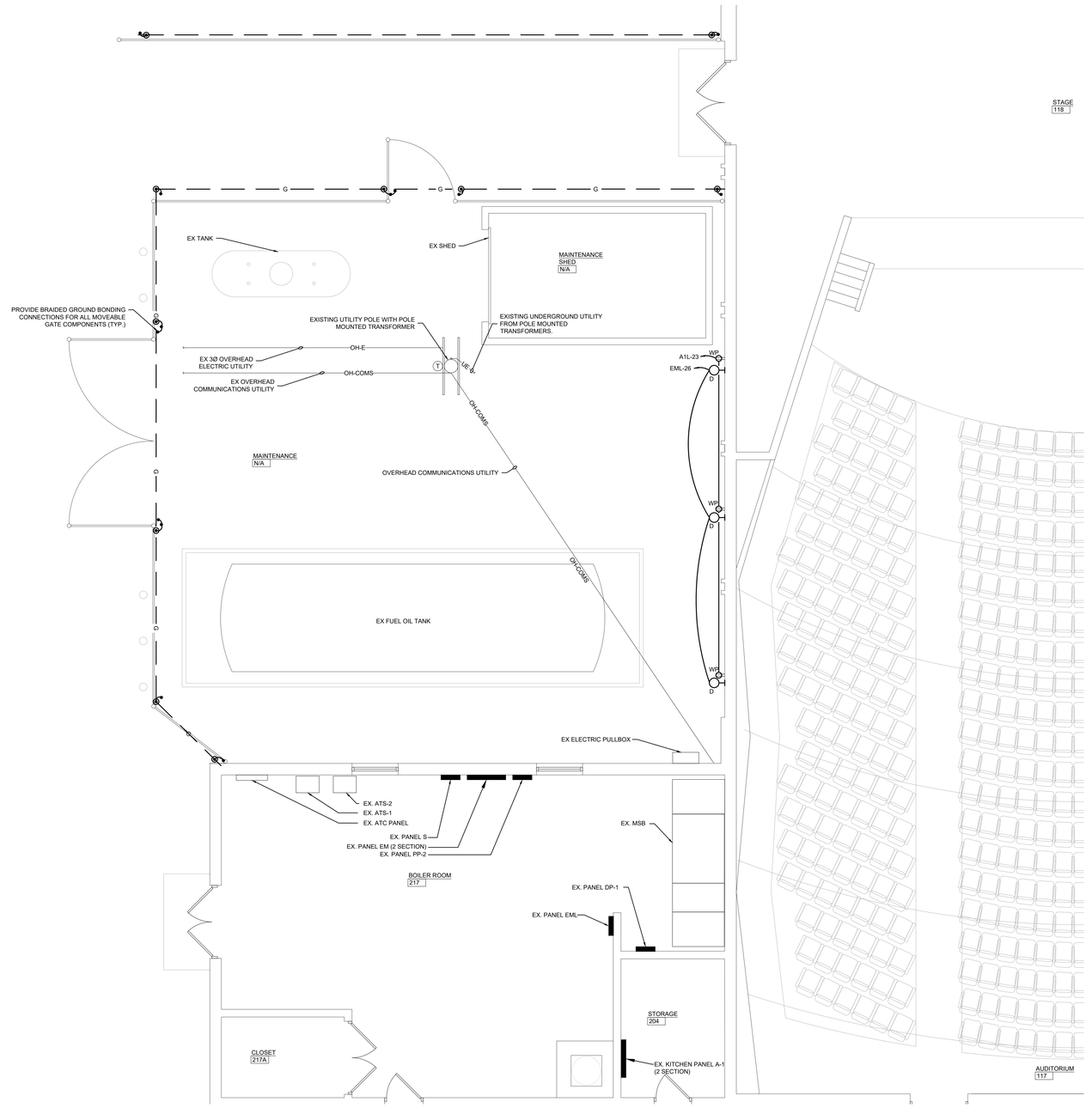
TERMINATION TYPES:
A. MECHANICAL COMPRESSION LUG
B. DOUBLE BARRELL COMPRESSION CONNECTOR
C. EXOTHERMIC TERMINATION
D. BEAM CLAMP

	SOLID #2 TINNED COPPER	#6 GROUND LEAD	#2/0 STRANDED MAIN DOWN CONDUCTOR	MASTER GRND BAR	STRUCTURAL OR TOWER STEEL	BELOW SERVICE ENTR OR GRND RING	GROUND ROD
SOLID #2 TINNED COPPER	B OR C	B OR C		C	A, C, OR D		C
#6 GROUND LEAD	B OR C			A	A, C, OR D		
#2/0 STRANDED GRNDG ELECTRODE CONDUCTOR				A	A, C, OR D	A	
MASTER GROUND BAR	C	A	A				
STRUCTURAL STEEL	A, C, OR D	A, C, OR D	A, C, OR D				
GROUND RING	C		C				C

3 G1 GROUNDING TERMINATION MATRIX
SCALE: NOT TO SCALE



GROUND ROD DETAIL
NOT TO SCALE



ELECTRICAL FENCE & CANOPY PLAN
SCALE: 1/4" = 1'0"

ELECTRICAL SYMBOL LEGEND

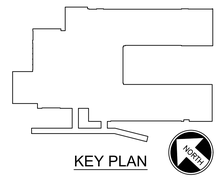
GROUNDING LEGEND

- NEW BURIED GROUND LOOP CONDUCTOR
- GROUND WIRE IN CONDUIT OR EXPOSED
- NEW GROUND ROD
- NEW CADWELD CONNECTION
- NEW MECHANICAL CONNECTION

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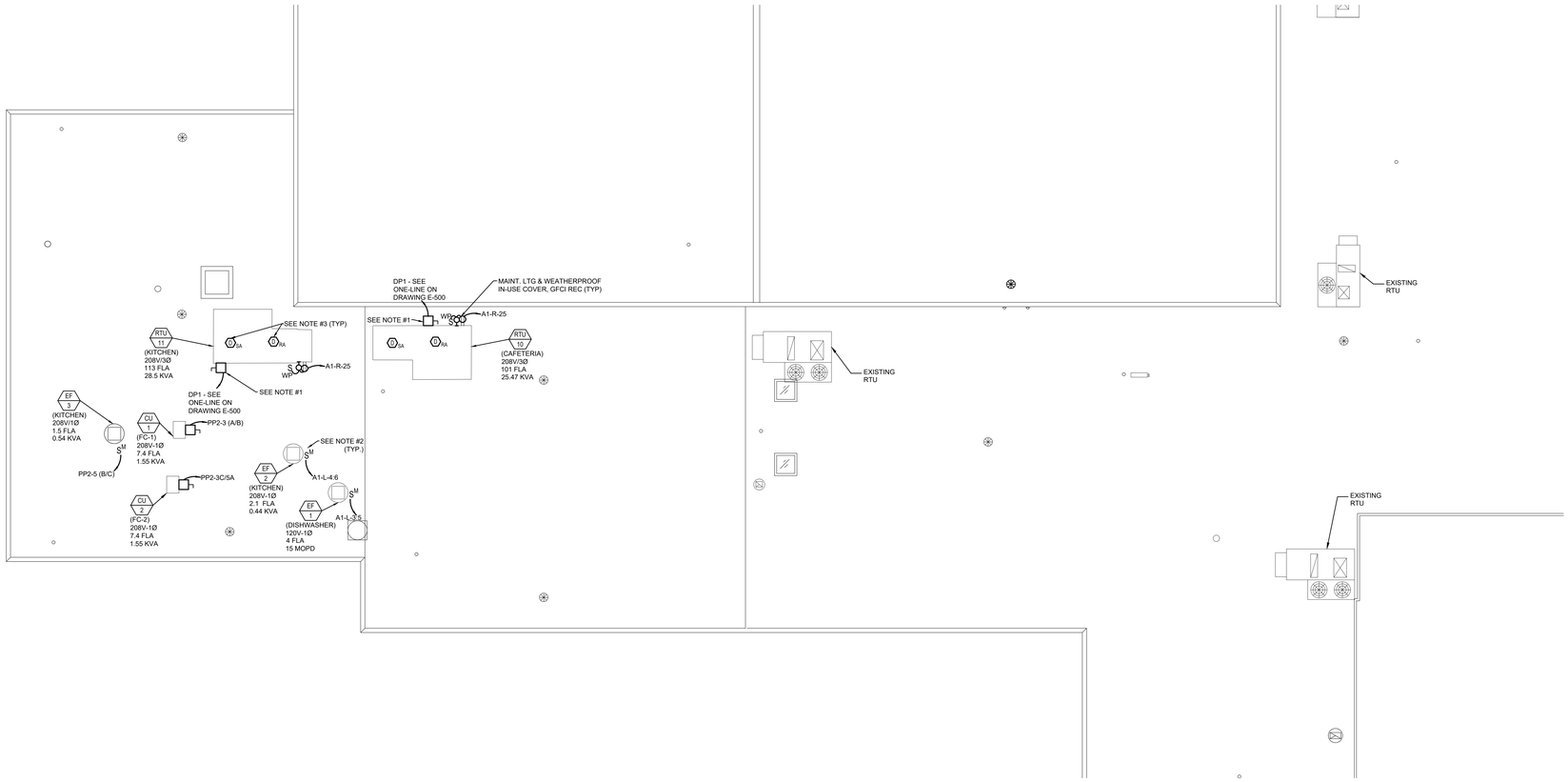
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ELECTRICAL PLAN
FENCE

DRAWN BY:	CHECKED BY:
MLT / TBH	L.K.N.
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
E-101

CAD FILE: 4240-AES-E-101.DWG PLOT DATE: 4/10/2026



ELECTRICAL ROOF PLAN

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

NOTES:

1. M.C. TO PROVIDE NEMA 3R DISCONNECT FOR UNIT.
2. M.C. TO PROVIDE VFD FOR NEW EF.
3. E.C. TO PROVIDE AND M.C. TO INSTALL NEW SUPPLY AND RETURN DUCT DETECTORS FOR NEW RTU.

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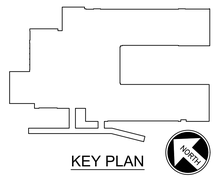
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1	SED ADDENDUM 001	03-06-2026

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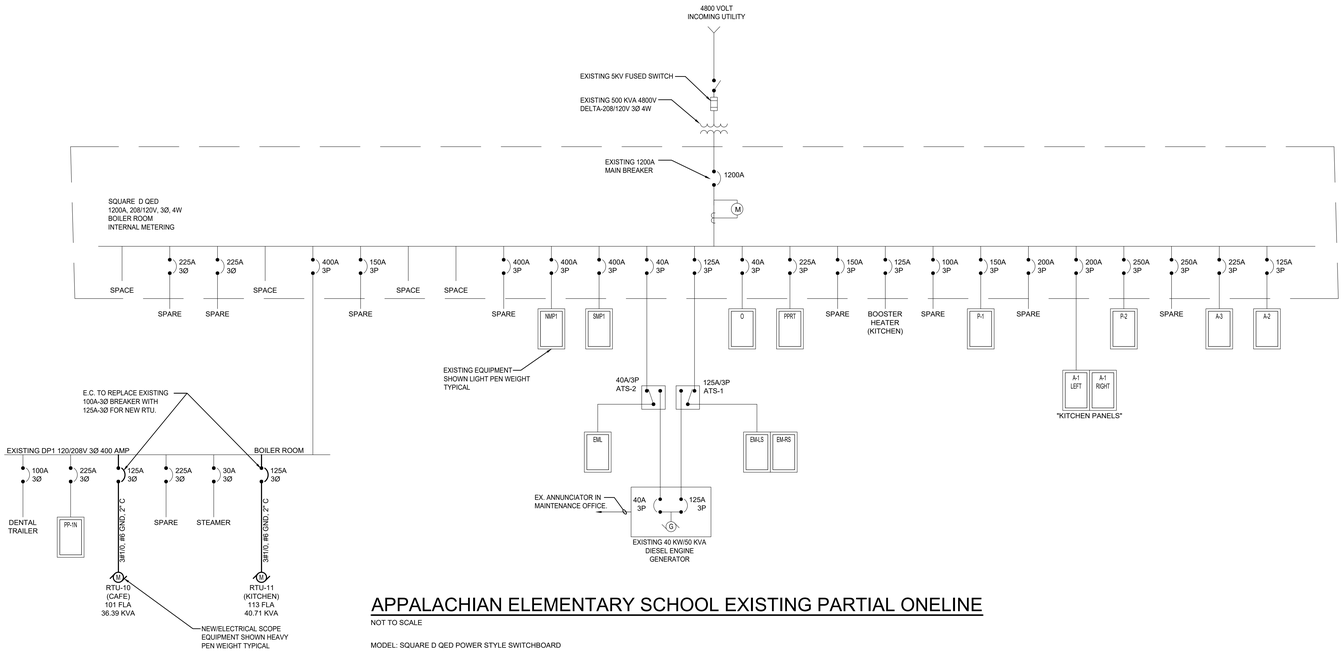
ELECTRICAL PLAN
ROOF

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DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
E-102

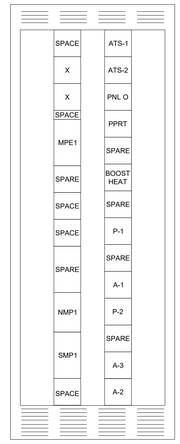
CAD FILE: 4240-AES-E-102.DWG PLOT DATE: 4/10/2026



APPALACHIAN ELEMENTARY SCHOOL EXISTING PARTIAL ONELINE

NOT TO SCALE

MODEL: SQUARE D QED POWER STYLE SWITCHBOARD



APPALACHIAN ELEMENTARY SCHOOL MDP

NOT TO SCALE

MODEL: SQUARE D QED POWER STYLE SWITCHBOARD

EXISTING PANEL BOARD SCHEDULE

PANEL						MAINS (A):	200	VOLTAGE:	208	120	3Ø	4W	LOCATION:	STORAGE 204				SINGLE	x
A1-R						O.C. DEVICE:	MLO	MIN. O.C:	EXISTING				FED BY:	MDP				DOUBLE	
						TYPE:	APPLIANCE	A.I.C:	EXISTING				MOUNTING:	SURFACE				COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1	1	20	-	-	-	ALC	0.8	0.8	***	***	***	***	CAFETERIA RECEPT	-	-	-	20	1	2
3	2	60	-	-	-	HOT FOOD TABLE	***	***	3.5	0.8	***	***	U.H. MAIN LOBBY	-	-	-	20	1	4
5							***	***	***	***	3.5	0.8	REC DBL - WEST WALL	-	-	-	20	1	6
7	3	40	-	-	-	BOTTOM GARLAND OVEN	2.5	2.4	***	***	***	***	KIDS ROOM- THIS ROOM	-	-	-	20	1	8
9							***	***	2.5	3.6	***	***	EXISTING LOAD	-	-	-	30	3	10
11							***	***	***	***	2.5	3.6							12
13	3	70	-	-	-	DISHWASHER	5.0	3.6	***	***	***	***							14
15							***	***	5.0	0.8	***	***	EXISTING LOAD	-	-	-	20	1	16
17							***	***	***	***	5.0	0.8	EXISTING LOAD	-	-	-	20	1	18
19	3	40	-	-	-	TOP GARLAND OVEN	2.5	0.8	***	***	***	***	EXISTING LOAD	-	-	-	20	1	20
21							***	***	2.5	0.8	***	***	REC DBL - WEST WALL	-	-	-	20	1	22
23							***	***	***	***	2.5	0.8	EXISTING LOAD	-	-	-	20	1	24
*25	1	20	2#12	#12	3/4"	MAINT. LTG / REC - RTU 10/11	0.7	0.4	***	***	***	***	CAFÉ MONITORS	3/4"	#12	2#12	20	1	26*
27	1	-	-	-	-	SPACE	***	***	0.4	0.0	***	***	DISH RETURN ROLLING DOOR	3/4"	#12	2#12	20	1	28*
29	1	-	-	-	-	SPACE	***	***	***	***	0.0	0.0	SPACE	-	-	-	-	1	30
							19.54		19.94		19.54								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				59.02								
							TOTAL KVA DEMAND:				38.36								
							TOTAL AMPERAGE DEMAND:				106.49								

*E.C. TO ADD BREAKER INTO EXISTING SPACE FOR NEW CIRCUIT.

EXISTING PANEL BOARD SCHEDULE

PANEL						MAINS (A):	40	VOLTAGE:	208	120	3Ø	4W	LOCATION:	BOILER ROOM				SINGLE	x
EML						O.C. DEVICE:	MCB	MIN. O.C:	EXISTING				FED BY:	ATS-1				DOUBLE	
						TYPE:	EMER.	A.I.C:	EXISTING				MOUNTING:	SURFACE				COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1	3	40	-	-	-	MAIN	0.0	0.8	***	***	***	***	FIRE ALARM PANEL	-	-	-	20	1	2
3							***	***	0.0	1.2	***	***	LTS - CAFÉ / KITCHEN EM	3/4"	#12	2#12	20	1	4*
5							***	***	***	***	0.0	0.8	BLOCK HEATER	-	-	-	20	1	6
7	1	20	-	-	-	BATTERY CHARGER	0.8	0.8	***	***	***	***	PA + CARD READER	-	-	-	20	1	8
9	1	20	-	-	-	CORRIDOR LIGHTS EXIT	***	***	0.8	0.8	***	***	PHONE SYSTEM	-	-	-	20	1	10
11	1	20	-	-	-	CORRIDOR LIGHTS	***	***	***	***	0.8	0.8	SURVEY COMP	-	-	-	20	1	12
13	1	20	-	-	-	NORTH EXITS NEW	0.8	0.8	***	***	***	***	LIBRARY BACK-UP	-	-	-	20	1	14
15	1	20	-	-	-	EXIT SIGNS	***	***	0.8	0.8	***	***	3 DOOR FREEZER	-	-	-	20	1	16
17	1	20	-	-	-	EXITS GYM HALLWAY	***	***	***	***	0.8	0.8	3 DOOR FREEZER	-	-	-	20	1	18
19	1	20	-	-	-	LIGHTS GYM HALLWAY	0.8	0.8	***	***	***	***	SOUTH EXIT	-	-	-	20	1	20
21	1	20	-	-	-	NEW FIRE ALARM PANEL	***	***	0.8	0.8	***	***	SOUTH-LIGHTS NEW	-	-	-	20	1	22
23	1	20	-	-	-	DOOR CONTROL PANEL	***	***	***	***	0.8	0.8	NORTH LIGHTS	-	-	-	20	1	24
25	1	20	-	-	-	MAIN OFFICE DATA UPS	0.8	0.8	***	***	***	***	LTG-OUTSIDE FENCE AREA	3/4"	#12	2#12	20	1	26**
27	1	20	-	-	-	LIBRARY DATA UPS	***	***	0.8	0.0	***	***	SPARE	-	-	-	20	1	28
29	1	-	-	-	-	SPACE	***	***	***	***	0.8	0.0	SPACE						30
							7.20		6.80		5.60								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				19.60								
							TOTAL KVA DEMAND:				11.76								
							TOTAL AMPERAGE DEMAND:				32.64								

*E.C. TO REUSE EXISTING BREAKER.
**E.C. TO REUSE EXISTING SPARE BREAKER FOR NEW LIGHTING.

EXISTING PANEL BOARD SCHEDULE

PANEL						MAINS (A):	200A	VOLTAGE:	208	120	3Ø	4W	LOCATION:	STORAGE 204				SINGLE	x
A1-L						O.C. DEVICE:	MCB	MIN. O.C:	EXISTING				FED BY:	MDP				DOUBLE	
						TYPE:	MLO	A.I.C:	EXISTING				MOUNTING:	SURFACE				COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1	1	20	-	-	-	MAINT. 108 LTS	0.8	0.8	***	***	***	***	LTS - STOR. & RECIVING	-	-	-	20	1	2****
**3	2	15	3#12	#12	3/4"	EF-1 (DISHWASHER)	***	***	1.0	0.2	***	***	EF-2 (FRONT KITCHEN)	3#12	#12	3/4"	15	2	4**
**5							***	***	***	***	0.8	0.2							6*
***7	1	15	2#12	#12	3/4"	LTS - CAFÉ NON-EM	0.5	0.3	***	***	***	***	LTS - KITCHEN NON-EM	2#12	#12	3/4"	15	1	8***
9	1	20	-	-	-	LTS - BOY/GIRL TOILETS	***	***	0.8	0.8	***	***	LTS - PUBLIC LOBBY	-	-	-	20	1	10
11	1	20	-	-	-	LTS - HALL / ENTERANCE	***	***	***	***	0.8	0.8	LTS - COR 101	-	-	-	20	1	12
13	1	20	-	-	-	RECS - STOR & RECEIVING	0.8	0.8	***	***	***	***	RECS - MAINT RM	-	-	-	20	1	14
15	1	20	-	-	-	RECS - KITCHEN	***	***	0.8	0.8	***	***	KITCHEN FAN	-	-	-	20	1	16
17	1	20	-	-	-	KITCHEN COOLER	***	***	***	***	0.8	0.8	REC - FREEZER	-	-	-	20	1	18
19	1	20	-	-	-	RM 115 STOR. LTS	0.8	0.8	***	***	***	***	PORTABLE TABLE	-	-	-	20	1	20
21	1	20	-	-	-	RECS - CABINETS	***	***	0.8	0.8	***	***	REC - MILK COOLER	-	-	-	20	1	22
*23	1	20	2#12	#12	3/4"	MAINT FENCE AREA REC	***	***	***	***	0.8	0.8	REC - REFRIDERATOR	-	-	-	20	1	24
25	1	20	-	-	-	RECS - CORR. 101	0.8	0.8	***	***	***	***	REC - CORR. 101	-	-	-	20	1	26
27	1	20	-	-	-	RECS - CAFÉ	***	***	0.8	0.8	***	***	EXISTING LOAD	-	-	-	20	1	28
29	1	20	-	-	-	EXISTING LOAD	***	***	***	***	0.8	0.8	EXISTING LOAD	-	-	-	20	1	30
31	1	20	-	-	-	EXISTING LOAD	0.8	0.8	***	***	***	***	EXISTING LOAD	-	-	-	20	1	32
33	1	20	-	-	-	EXISTING LOAD	***	***	0.8	0.8	***	***	EXISTING LOAD	-	-	-	20	1	34
35	1	20	-	-	-	EXISTING LOAD	***	***	***	***	0.8	0.8	EXISTING LOAD	-	-	-	20	1	36
37	1	20	-	-	-	EXISTING LOAD	0.8	0.8	***	***	***	***	EXISTING LOAD	-	-	-	20	1	38
39	1	20	-	-	-	EXISTING LOAD	***	***	0.8	0.8	***	***	EXISTING LOAD	-	-	-	20	1	40
41	1	20	-	-	-	EXISTING LOAD	***	***	***	***	0.8	0.8	EXISTING LOAD	-	-	-	20	1	42
							10.33		10.77		10.62								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				31.72								
							TOTAL KVA DEMAND:				20.62								
							TOTAL AMPERAGE DEMAND:				57.23								

*BREAKER MADE SPARE BY DEMOLITION. E.C. TO REUSE POLE SPACE FOR NEW LOAD.
** E.C. TO REPLACE EXISTING 20A-1P WITH 15A-2P FOR NEW LOAD.
*** E.C. TO REUSE EXISITNG BREAKER FOR NEW LOAD.
****E.C. TO KEEP CONTINUITY TO REMAINING CIRCUIT.

EXISTING PANEL BOARD SCHEDULE

DESIGNATION						MAINS (A):	400	VOLTAGE:	120	208	3Ø	4W	LOCATION:	BOILER ROOM				SINGLE	x
PP-2						O.C. DEVICE:	C.B.	MIN. O.C:	EXISTING				FED BY:	MDP				DOUBLE	
						TYPE:	APPLIANCE	A.I.C:	EXISTING				MOUNTING:	SURFACE				COM. COVER	

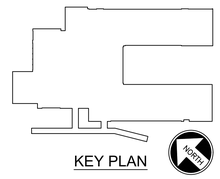
CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	PO	CKT
1	3	20	-	-	-	TRASH COMPACTOR	1.5	0.0	***	***	***	***	SPARE	-	-	-	20	3	2
							***	***	1.5	0.0	***	***							
3	2	15	-	-	-	CU-1	0.8	1.5	***	***	***	***	EMERGENCY LIGHTS	-	-	-	20	3	4
							***	***	***	***	1.5	0.0							
	2	15	-	-	-	CU-2	***	***	0.8	1.5	***	***							
							***	***	***	***	0.8	1.5							
5	2	15	-	-	-	EF-3 (KITCHEN)	0.8	0.0	***	***	***	***	SPACE	-	-	-	-	3	6
							***	***	***	***	0.2	0.0							
							4.5		4.0		4.0								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				12.44								
							TOTAL KVA DEMAND:				8.71								
							TOTAL AMPERAGE DEMAND:				24.17								

*E.C. TO REPLACE EXISTING 3P BREAKER WITH NEW 15A-2P BREAKER FOR NEW CONDENSOR UNIT.

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REVISION NO:

BID Documents
April 10, 2026



KEY PLAN

AES SED #60-06-01-06-0-008-18

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

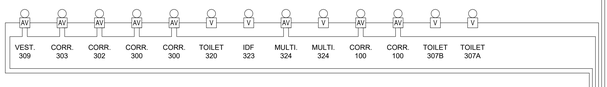
DRAWING TITLE:
ELECTRICAL ONELINE & PANEL SCHEDULE

DRAWN BY:	CHECKED BY:
MLT	L.K.N
DATE:	PROJECT NO:
04/10/2026	2024-240P

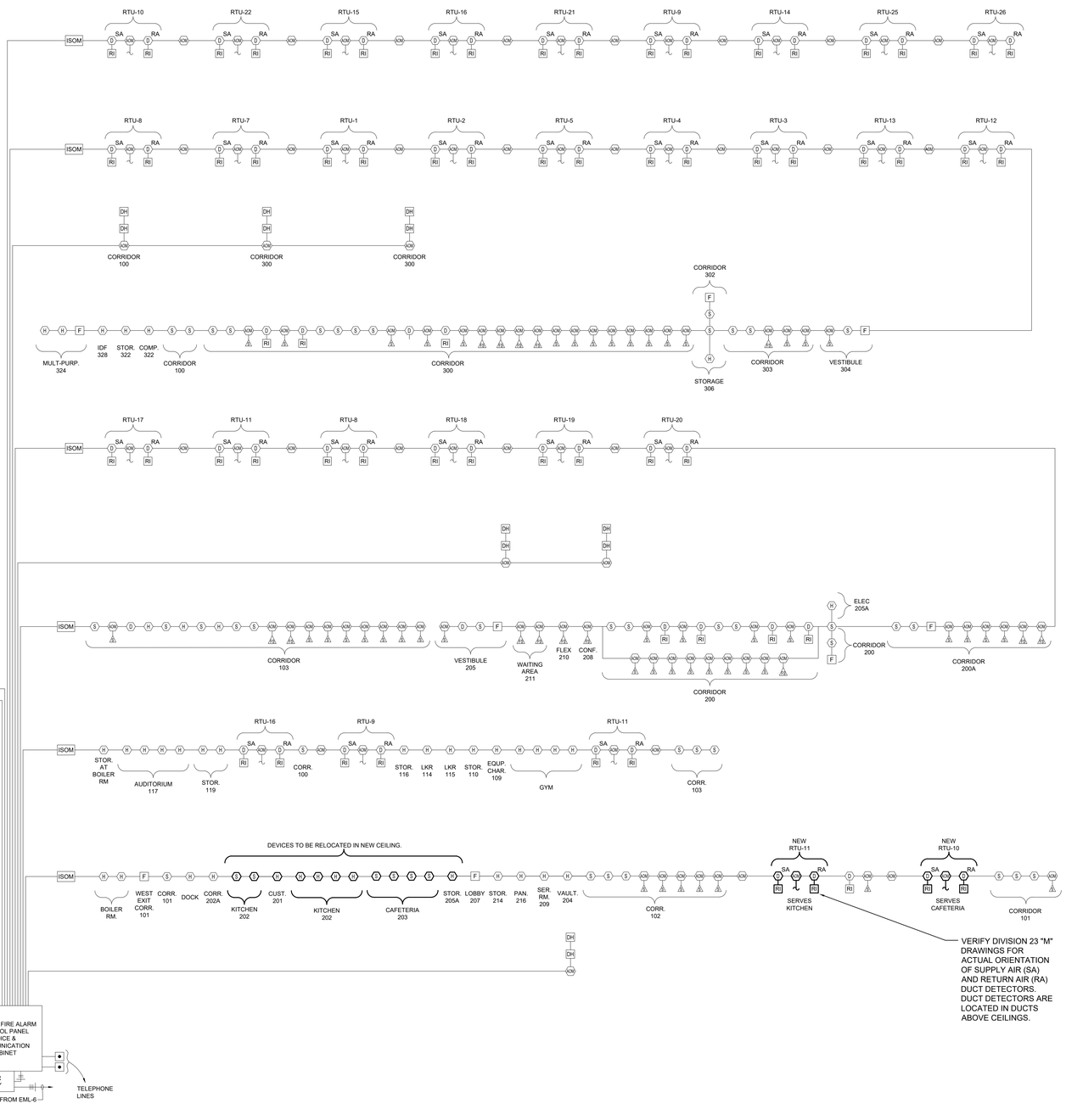
BUILDING
AES

DRAWING NO:
E-500

CAD FILE: 4240-AES-E-500.DWG PLOT DATE: 4/10/2026







FIRE ALARM RISER DIAGRAM

SCALE: NOT TO SCALE

FOR EXACT LOCATION AND NUMBER OF DEVICES REFER TO FLOOR PLANS.

ANYTHING SHOWN LIGHT IS EXISTING TO REMAIN, ANYTHING SHOWN DARK IS NEW.

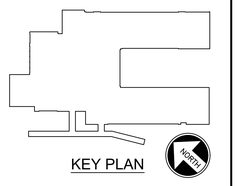
FIRE ALARM SYSTEM RISER NOTES:

1. RISER DIAGRAM DEPICTS TYPICAL CONDITIONS AND IS SHOWN FOR REFERENCE ONLY. FIRE ALARM VENDOR SHALL PROVIDE SPECIFIC RISER AND WIRING DIAGRAMS PERTAINING TO THIS PROJECT.
2. FIRE ALARM CABLING SHALL BE PLENUM RATED. CABLING SHALL BE INSTALLED IN 3/4"C. MINIMUM WHERE EXPOSED, INSTALLED ABOVE INACCESSIBLE CEILINGS, FOR RISERS IN WALLS TO ABOVE ACCESSIBLE CEILING, AND WHERE SUSCEPTIBLE TO DAMAGE.
3. ALL DEVICES SHALL BE MOUNTED AS PER ADA SPECIFICATIONS. AUDIO/VISUAL UNITS AND VISUAL UNITS SHALL BE MOUNTED AT 80" AFF TO BOTTOM. MANUAL PULL STATIONS SHALL BE MOUNTED AT 42" AFF TO CENTER.
4. THE SYSTEM MANUFACTURER SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL A COMPLETE WIRING DIAGRAM SHOWING ALL DEVICES AND ALL REQUIRED WIRING. THIS WIRING DIAGRAM SHALL BE SPECIFIC FOR THIS PROJECT. TYPICAL WIRING DIAGRAMS WILL NOT BE ACCEPTED. INCLUDE BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS.
5. QUANTITY AND LOCATION OF FIRE ALARM DEVICES SHALL BE AS SHOWN ON THE FLOOR PLANS.
6. ALL NECESSARY HARDWARE, SOFTWARE, PROGRAMMING, EQUIPMENT, CABLE, BOXES, RACEWAY, ETC. SHALL BE PROVIDED TO FURNISH A COMPLETE AND FULLY OPERATIONAL SYSTEM.
7. FIRE ALARM SYSTEM MODIFICATIONS SHALL FULLY COMPLY WITH NFPA 72 STANDARDS.
8. SUBMITTALS SHALL BE PROVIDED WITH PRODUCT DATA (FOR EACH TYPE OF PRODUCT SHOWN ON THE DRAWINGS) FOR SHOP DRAWINGS. SHOP DRAWINGS SHALL BE PREPARED BY INDIVIDUALS TRAINED AND CERTIFIED BY THE MANUFACTURER IN FIRE ALARM DESIGN AS WELL AS FIRE ALARM CERTIFIED LEVEL IV BY NICET.
9. SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING AND SHALL ALSO BE SUBMITTED TO THE LOCAL FIRE OFFICIAL:
   - DUCT SMOKE DETECTORS: PERFORMANCE PARAMETERS AND INSTALLATION DETAILS FOR EACH DETECTOR, VERIFYING THAT EACH DETECTOR LISTED FOR THE COMPLETE RANGE OF AIR VELOCITY, TEMPERATURE, AND HUMIDITY POSSIBLE WHEN AIR HANDLING SYSTEM IS OPERATING.
   - ROOF PLANS: INDICATE FINAL DUCT DETECTORS AND ACCESS TO INDICATING ADDRESS OF EACH ADDRESSABLE DEVICE.
   - DUCTWORK COORDINATION DRAWINGS: PLANS, SECTIONS, AND ELEVATIONS OF DUCTS, DRAWING TO SCALE AND COORDINATING THE INSTALLATION OF DUCT SMOKE DETECTORS AND ACCESS TO THEM. SHOW CRITICAL DIMENSIONS THAT RELATE TO PLACEMENT AND SUPPORT OF SAMPLING TUBES, THE DETECTOR HOUSING, AND REMOTE STATUS AND ALARM INDICATORS. LOCATE THE DETECTORS ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
12. VERIFY EXTENT OF REQUIRED WORK WITH FIRE ALARM SYSTEM VENDOR PRIOR TO CONSTRUCTION. COORDINATE ALL WORK WITH FIRE ALARM SYSTEM VENDOR DURING CONSTRUCTION.
13. ANY RELOCATED DEVICE SHALL BE INSPECTED & TESTED FOR ADEQUACY. IF DEVICE IS ADEQUATE, THEN DEVICE SHALL BE CLEANED PRIOR TO RELOCATION. IF DEVICE IS INADEQUATE, E.C. SHALL REPLACE DEVICE TO MATCH AND WORK WITH EXISTING SYSTEM.

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KEY PLAN

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PROJECT TITLE:

Owego Apalachin School District Phase 4
405 Pennsylvania Avenue, Apalachin, NY 13827

SEALS:

DRAWING TITLE:
ELECTRICAL
FIRE ALARM
RISER DIAGRAM

DRAWN BY:	CHECKED BY:
MLT	LKN
DATE:	PROJECT NO:
04/10/2026	2024-240P

BUILDING
AES

DRAWING NO:
E-501

CAD FILE: 4240-AES-E-500.DWG PLOT DATE: 4/10/2026